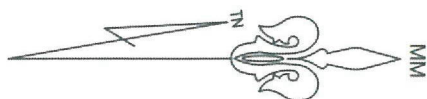


KEECH ROAD

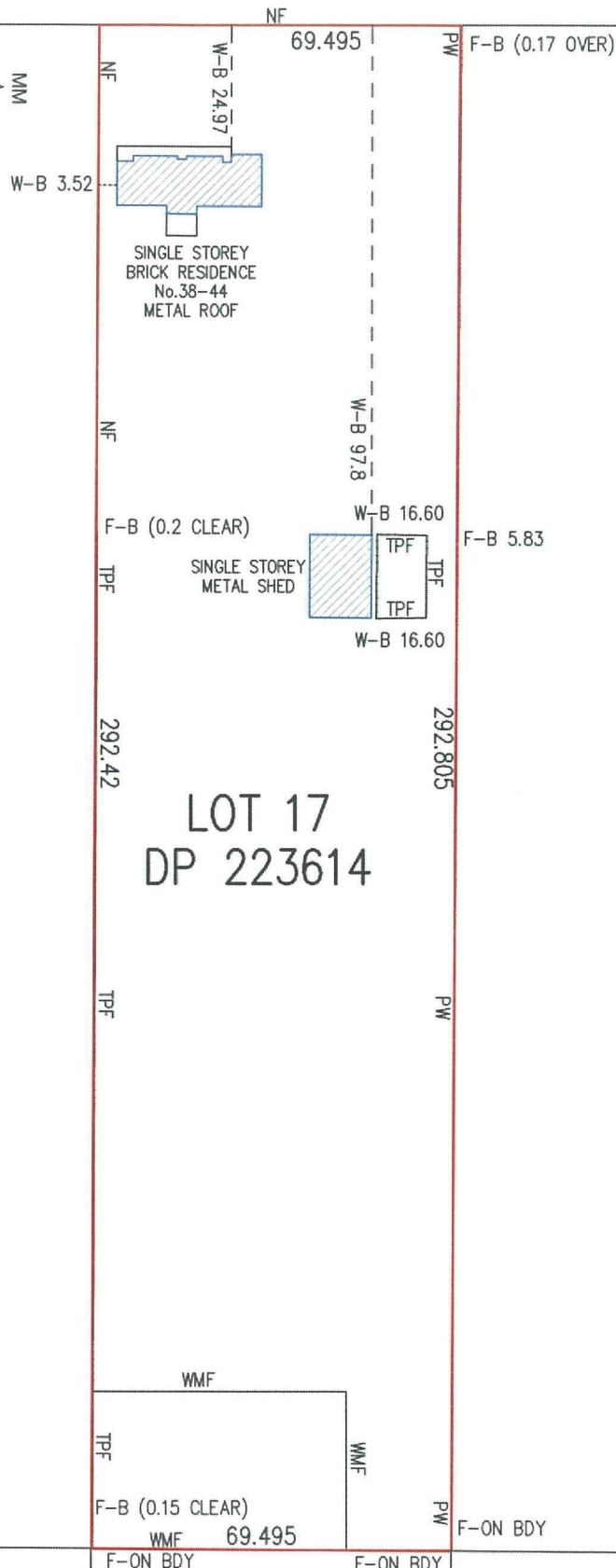


NOTES
 F-FENCE
 TPF-TIMBER PALING FENCE
 WMF-WIRE MESH FENCE
 PW-POST & WIRE FENCE
 NF-NOT FENCE
 WB-WALL TO BOUNDARY
 J938513-COVENANT

LOT 16
 DP 223614

LOT 17
 DP 223614

LOT 18
 DP 223614



Geoff Gallen
 Geoff Gallen
 Registered Surveyor
 N° 1083

LOT 3
 DP 223614

LOT 2
 DP 223614

LOT 1
 DP 223614



TSS TOTAL SURVEYING SOLUTIONS
 ARTARMON | CAMDEN | MANLY VALE

SURVEY REPORT SKETCH
CLIENT: MATHEW PRYCE
PROJECT: CASTLEREAGH
ADDRESS: 38-44 KEECH ROAD, CASTLEREAGH

DRAWING No: 171530_A
DATE OF SURVEY: 29/07/2016
SCALE: NOT TO SCALE
SHEET 1 OF 1

McDONALD JONES

DO NOT SCALE DRAWINGS. USE PROVIDED DIMENSIONS ONLY. CHECK AND VERIFY DIMENSIONS AND LEVELS PRIOR TO THE COMMENCEMENT OF ANY WORK. ALL DISCREPANCIES TO BE REPORTED TO THE DRAFTING OFFICE.

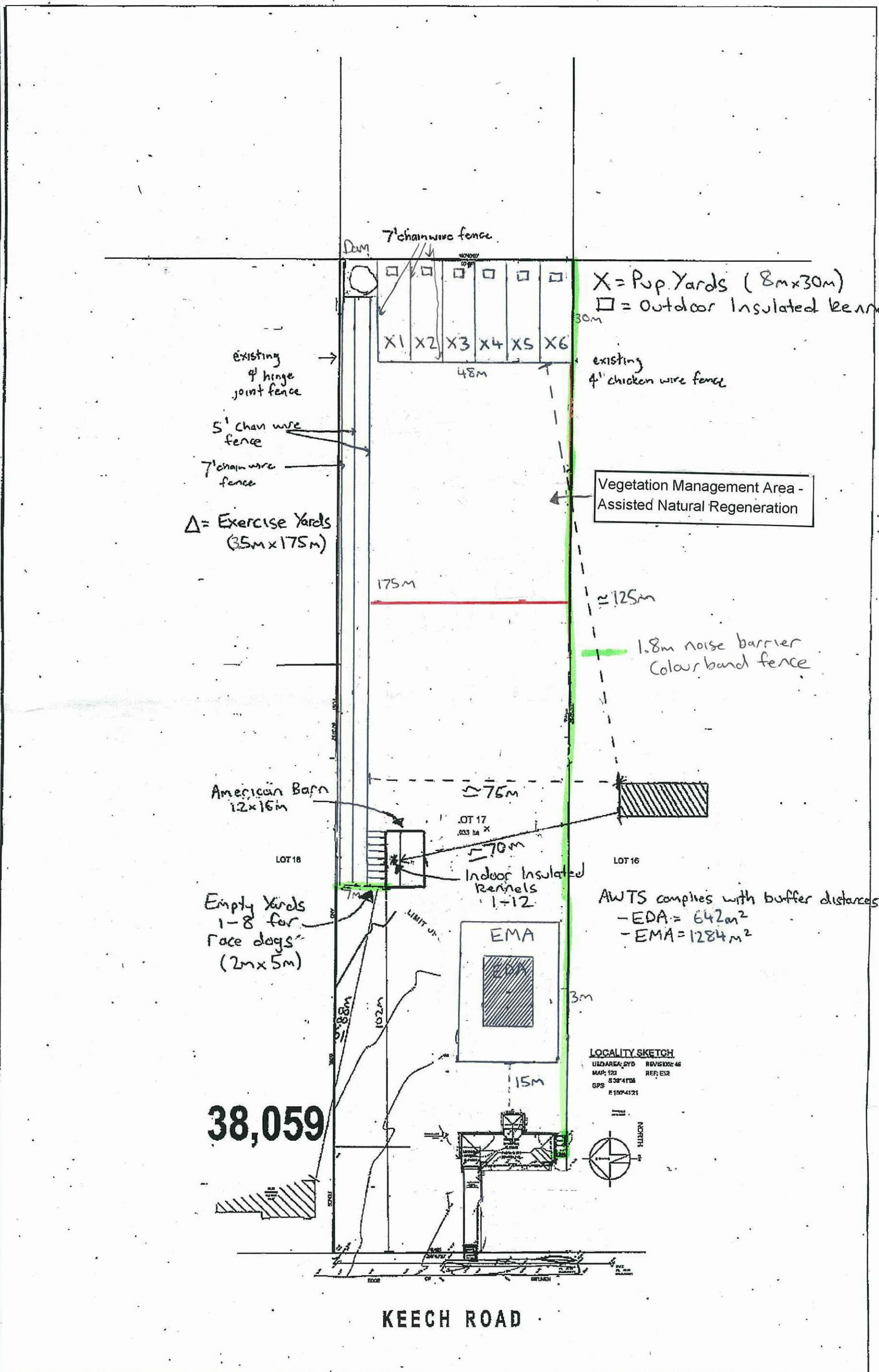
www.mcdonaldjones.com.au @ 2011

DRAWING		DRAWN	
1	PRELIM (PER C12)	VP	2012/05/10
2	CONTRACT PLANS	TA	2012/05/14
3			
4			
5			

CLIENT:		LOT No:
Mr M & Mrs K PRYCE		17
ADDRESS:		DP No:
KEECH ROAD		223814
SRA No:		SECTION No:
CASTLECREACH		
POSTCODE:	COUNCIL:	
2749	PENRITH	

HOUSE DESIGN:		DESIGN CODE:
SOMERSET GRANGE		H-SOMCLAS7401
PURPOSE:		PROJECT CODE:
CLASSIC		F-SOMCLAS
SHEET TITLE:		SCALE:
LOCATION PLAN		1:1000
		SHEET No:
		4 / 11

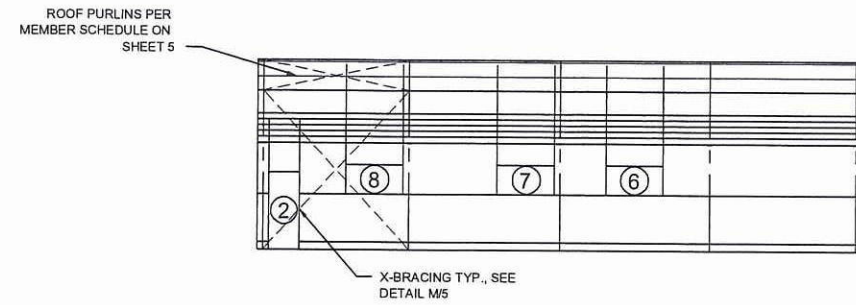
APPROVALS	
CONTRACT	
COUNCIL	
CONSTRUCTION	
600593	



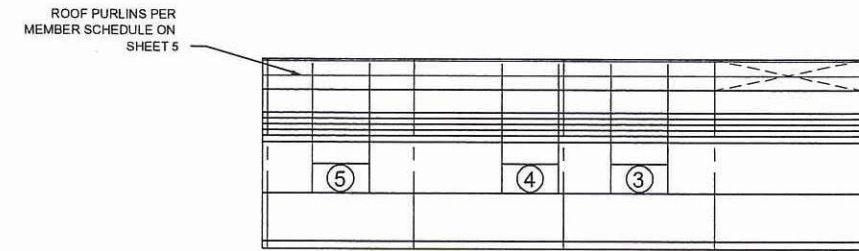
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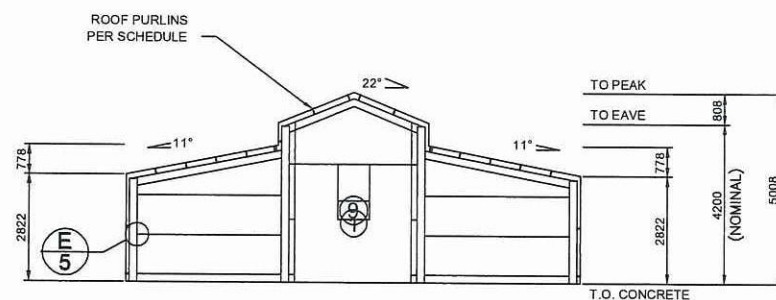
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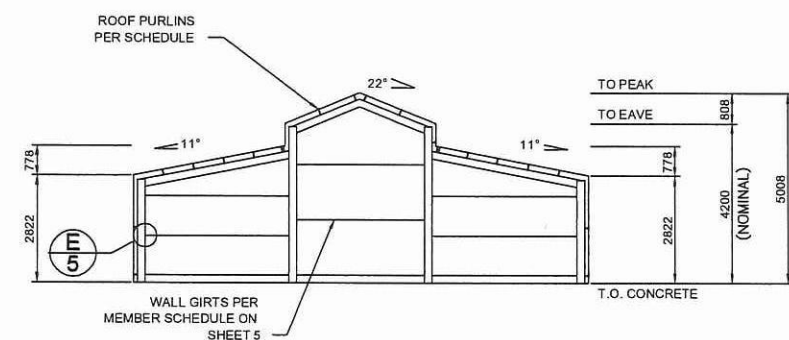
1 SIDEWALL EXTERIOR ELEVATION
2 SCALE: 1 = 200



2 SIDEWALL EXTERIOR ELEVATION
2 SCALE: 1 = 200



4 ENDWALL INTERIOR ELEVATION
2 SCALE: 1 = 200



3 ENDWALL INTERIOR ELEVATION
2 SCALE: 1 = 200

X Bracing is required in 1 side bay(s) and 1 roof bay(s) (both sides).
Fly Bracing is included in this building to be placed on every second Purlin/Girt.

NOTE: CLADDING OMITTED FOR CLARITY. SEE SHEET #5 FOR CLADDING DETAILS.

2 OF 6

SHEET

JOB NO. STON78892

DATE 12/1/2012

CHECKED TM

DRAWN FDHS

STEEL BUILDING BY

FOR

AT

(CONTACT)

STONE HOMES

02 4647 1545

MITCHELL & PRYCE

38 TO 44 KEECH RD

CASTLEREAGH



NORTHERN CONSULTING engineers

Civil & Structural Engineers

50 Punari Street

Currajong, Qld 4812

Fax: 07 4725 5850

Email: design@nceng.com.au

ABN 341 008 173 56

Registered Chartered Professional Engineer

Registered Professional Engineer (Civil & Structural) QLD

Registered Certifying Engineer (Structural) N.T.

Registered Engineer - (Civil) VIC

Registered Engineer - (Civil) TAS

Regn. No. 2558980

Regn. No. 9985

Regn. No. 116373ES

Regn. No. EC36692

Regn. No. CC5848M

Mr Timothy Roy Messer BE MIEAust RPEQ

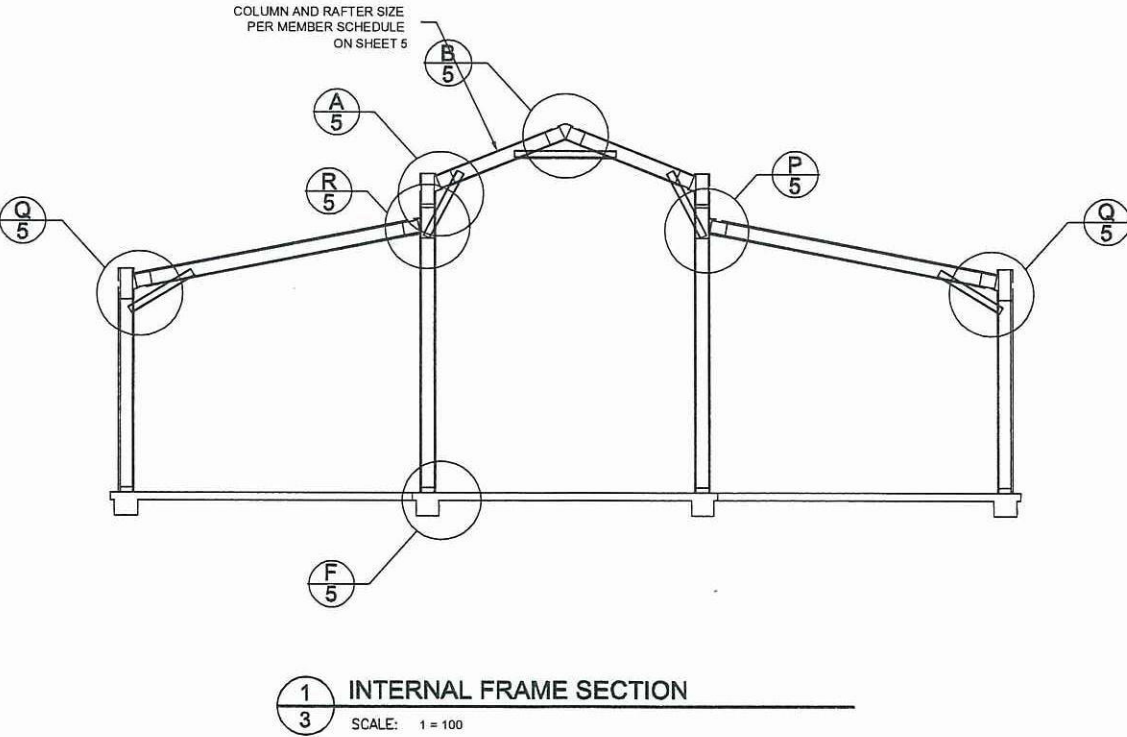
Registered Professional Engineer 2558980

Signature

Date 12/1/12

Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register

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Refer to Sheet #4 for concrete specification.

3 OF 6	SHEET	JOB NO. STON78892	DATE 12/1/2012	CHECKED TM	DRAWN FDHS	STEEL BUILDING BY	(CONTACT)	STONE HOMES	02 4647 1545	MITCHELL & PRYCE	38 TO 44 KEECH RD CASTLEREAGH				Civil & Structural Engineers	50 Punari Street	Currajong, Qld 4812	Fax: 07 4725 5850	Email: design@nceng.com.au	ABN 341 008 173 561	Mr Timothy Roy Messer BE MIEAust RPEQ	Registered Professional Engineer 2558980	Signature	Date 12/1/12	Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register
						FOR	AT	Registered Chartered Professional Engineer	Regn. No. 2558980						Registered Professional Engineer (Civil & Structural) QLD	Regn. No. 9985	Registered Certifying Engineer (Structural) N.T.	Regn. No. 118373ES	Registered Engineer - (Civil) VIC	Regn. No. EC38692	Registered Engineer - (Civil) TAS	Regn. No. CC5848M			

STRUCTURAL GENERAL NOTES

- GOVERNING CODE:** BUILDING CODE OF AUSTRALIA (BCA), LOADING TO AS1170 - ALL SECTIONS. BUILDING SUITABLE FOR DOMESTIC/LIGHT INDUSTRIAL USE UNLESS OTHERWISE SPECIFICALLY NOTED.
- DRAWING OWNERSHIP:** THESE DRAWINGS REMAIN THE PROPERTY OF FBHS (AUST) PTY LIMITED. ENGINEERING SIGNATURE AND 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.
- DRAWING SIGNATURE REQUIREMENTS:** THESE 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.
- 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 OBTAINING WRITTEN APPROVAL FROM ONE OF 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.
- ENGINEERING:** 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 PORTIONS 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 PURCHASER TO COORDINATE DRAWINGS PROVIDED BY FBHS WITH OTHER PLANS AND/OR OTHER COMPONENTS THAT ARE PART OF THE OVERALL PROJECT. IN CASES OF DISCREPANCIES, THE LATEST DRAWINGS PROVIDED BY FBHS SHALL GOVERN. NO ALTERATIONS TO THIS STRUCTURE (INCLUDING REMOVAL OF CLADDING) ARE TO BE UNDERTAKEN WITHOUT THE CONSENT OF THE CERTIFYING ENGINEER.
- 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 OCCURS AT 100mm BELOW FINISH GRADE, EXISTING NATURAL GRADE, OR AT FROST DEPTH SPECIFIED 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 150mm LAYERS TO A MAXIMUM DEPTH OF 900mm. CONCRETE FOUNDATION EMBEDMENT DEPTHS DO NOT APPLY TO LOCATIONS WHERE ANY UNCOMPACTED FILL OR DISTURBED GROUND EXISTS OR WHERE WALLS OF THE EXCAVATION WILL NOT STAND WITHOUT SUPPLEMENTAL SUPPORT, IN THIS CASE SEEK FURTHER ENGINEERING ADVICE.
- CLASS 10a FOOTING DESIGNS:** THE FOUNDATION DOCUMENTED IS APPROPRIATE FOR CLASS 10a BUILDING DESIGNS ON 'M-D', 'H', 'H-D' OR 'E' CLASS SOILS, IF TOTAL SLAB AREA IS UNDER 100m² AND THE MAXIMUM SLAB DIMENSION (LENGTH AND WIDTH) IS LESS THAN 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 COSMETIC IN NATURE. IF THIS IS A CONCERN TO THE CLIENT IT IS ADVISED THEY DISCUSS OTHER OPTIONS 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 SL72 REINFORCING MESH 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:** ALL STRUCTURAL STEEL, INCLUDING SHEETING THOUGH EXCLUDING CONCRETE REINFORCING, SHALL CONFORM TO AS 1397 (GAUGE <= 1mm fy = 550MPa, GAUGE > 1mm < 1.5mm fy = 500MPa, 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 PUNCHINGS.
- DESIGN WIND REQUIREMENT:** THE FRAME AS A BASIC STRUCTURE IS DESIGNED AS AN "AIR LEAKY BUILDING" IN COMPLIANCE WITH AS 1170.5.3, AS SUCH, SHOULD A WINDOW OR DOOR FAIL, INTEGRITY OF THE BUILDING WILL BE MAINTAINED.
- 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: V_{site}, B 32 m/s
WIND REGION: Reg A
TOPOGRAPH FACTOR, k_t: 1
SHIELDING FACTOR, k_s: 0.85
MAX GROUND SNOW LOAD: NA
MAX ROOF SNOW LOAD: NA
SITE ALTITUDE: NA
TERRAIN CATEGORY: TCat 3
SOIL SAFE BEARING CAPACITY: 100 kPa
RETURN PERIOD: 1:500
LIMITING CPI 1: -0.3
LIMITING CPI 2: 0
IMPORTANCE LEVEL: 2

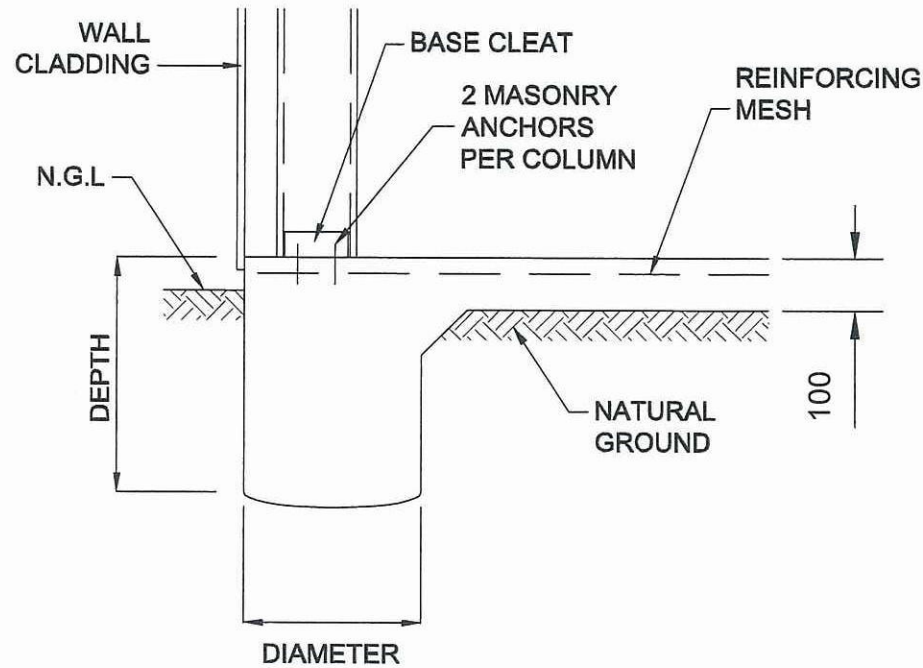
DETAIL KEYS

- (A) ENDWALL VERTICAL MULLION (SEE DETAIL C/5 FOR TOP CONN. AND F/5 FOR BASE CONN.)
- (B) FLYBRACING PER DETAIL L/5
- (C) X-BRACING IN ROOF ABOVE (SEE DETAIL M/5)
- (D) DOUBLE X-BRACING IN ROOF ABOVE (SEE DETAIL M/5)

DOOR SCHEDULE

DOOR	WIDTH	HEIGHT	OPENING TYPE	HEADER GIRT	OPENING JAMBS
①	3100	3100	3.10H X 3.15 CB 'SERIES A #	SINGLE	
②	820	2040	PA DOOR 2 CB SPECIAL	SINGLE	
③	1510	790	WINDOW	SINGLE	
④	1510	790	WINDOW	SINGLE	
⑤	1510	790	WINDOW	SINGLE	
⑥	1510	790	WINDOW	SINGLE	
⑦	1510	790	WINDOW	SINGLE	
⑧	1510	790	WINDOW	SINGLE	
⑨	840	480	WINDOW	SINGLE	

NOTES: 1) SEE SHEET 5 FOR DOOR OPENING FRAMING INFORMATION.
2) ALL DOOR SCHEDULE MEASUREMENTS ARE ACTUAL DOOR/WINDOW SIZE NOT OPENING SIZE.



Diameter x Depth (mm)
350 x 300

N.G.L - NATURAL GROUND LINE

Y BORED LOCAL THICKENING DETAIL SBOMA

OF	4	6
SHEET	4	6
JOB NO.	STON78892	
DATE	12/1/2012	
CHECKED	TM	
DRAWN	FDHS	

STEEL BUILDING BY
FOR
AT

(CONTACT)
STONE HOMES
02 4647 1545
MITCHELL PRYCE
38 TO 44 KEECH RD
CASTLEREAGH



Civil & Structural Engineers
50 Punari Street
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ABN 341 008 173 56

Registered Chartered Professional Engineer
Registered Professional Engineer (Civil & Structural) QLD
Registered Certifying Engineer (Structural) N.T.
Registered Engineer - (Civil) VIC
Registered Engineer - (Civil) TAS

Regn. No. 2558980
Regn. No. 9985
Regn. No. 116373ES
Regn. No. EC36692
Regn. No. CC5648M

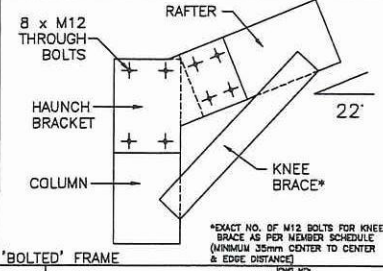
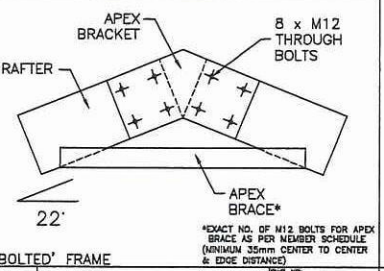
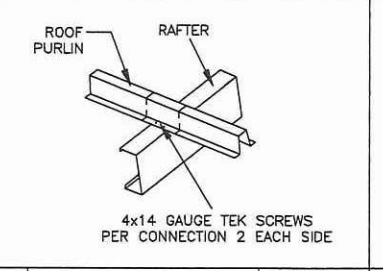
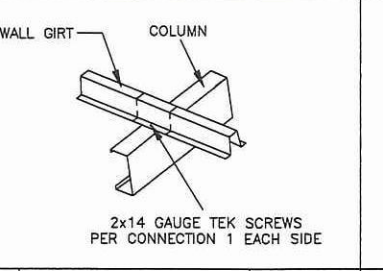
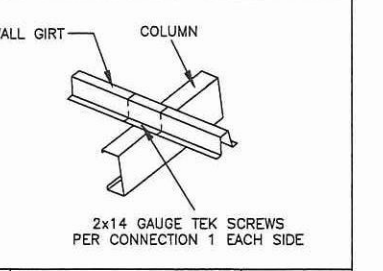
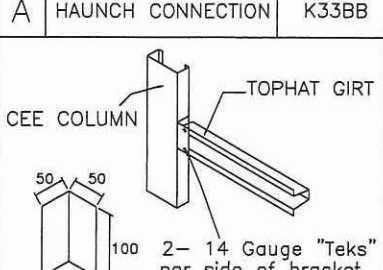
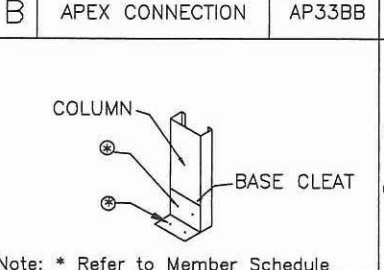
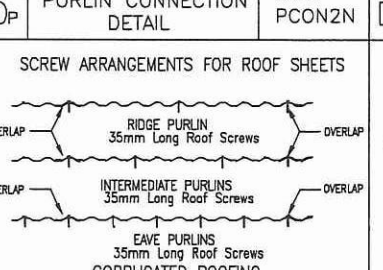
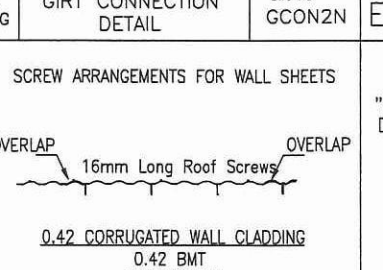
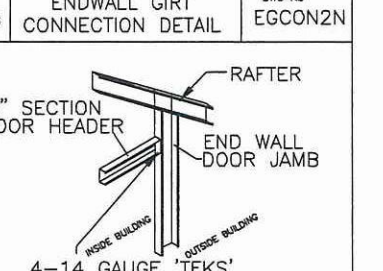
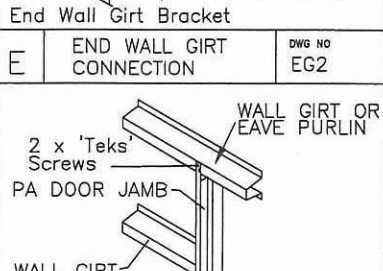
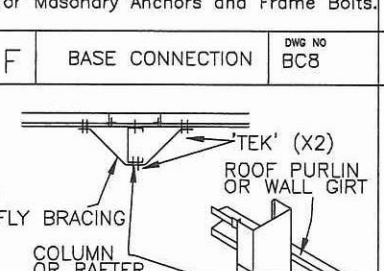
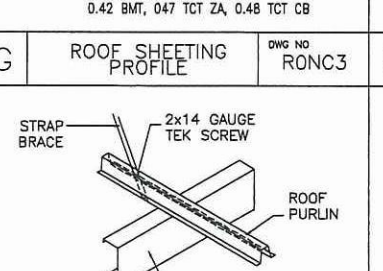
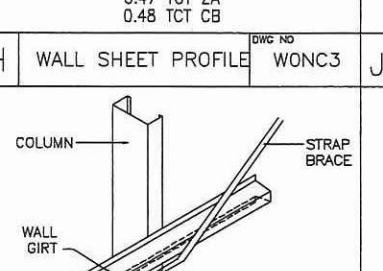
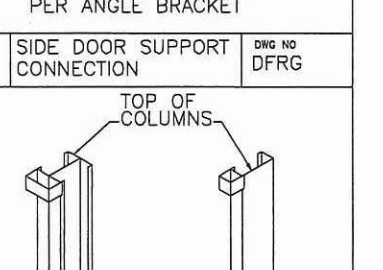
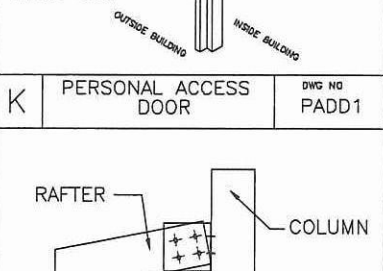
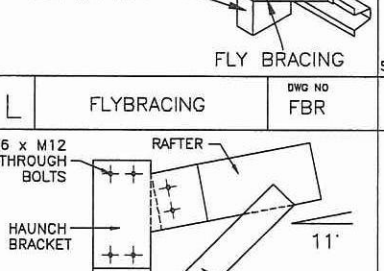
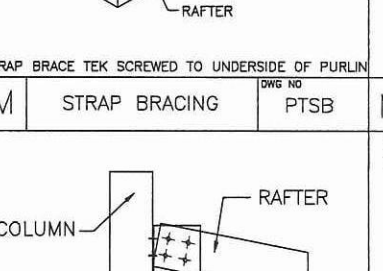
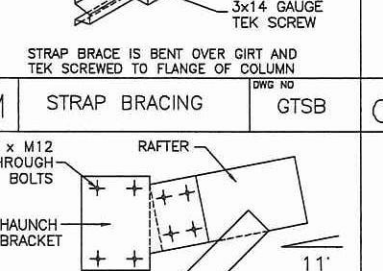
Mr Timothy Roy Messer BE MIEAust RPEQ
Registered Professional Engineer 2558980

Signature *T. Messer*

Date 12/1/12

Registered on the NPFR in the areas of practice
of Civil & Structural National Professional
Engineers Register

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 <p>8 x M12 THROUGH BOLTS HAUNCH BRACKET COLUMN KNEE BRACE*</p> <p>*EXACT NO. OF M12 BOLTS FOR KNEE BRACE AS PER MEMBER SCHEDULE (MINIMUM 35mm CENTER TO CENTER & EDGE DISTANCE)</p> <p>DWG NO. K33BB</p>	 <p>8 x M12 THROUGH BOLTS APEX BRACKET RAFTER KNEE BRACE*</p> <p>*EXACT NO. OF M12 BOLTS FOR APEX BRACE AS PER MEMBER SCHEDULE (MINIMUM 35mm CENTER TO CENTER & EDGE DISTANCE)</p> <p>DWG NO. AP33BB</p>	 <p>ROOF PURLIN RAFTER 4x14 GAUGE TEK SCREWS PER CONNECTION 2 EACH SIDE</p> <p>DWG NO. PCON2N</p>	 <p>WALL GIRT COLUMN 2x14 GAUGE TEK SCREWS PER CONNECTION 1 EACH SIDE</p> <p>DWG NO. GCON2N</p>	 <p>WALL GIRT COLUMN 2x14 GAUGE TEK SCREWS PER CONNECTION 1 EACH SIDE</p> <p>DWG NO. EGCON2N</p>
 <p>CEE COLUMN TOPHAT GIRT 2-14 Gauge "Tek"s per side of bracket</p> <p>End Wall Girt Bracket</p> <p>DWG NO. EG2</p>	 <p>COLUMN BASE CLEAT FLY BRACING</p> <p>Note: * Refer to Member Schedule for Masonry Anchors and Frame Bolts.</p> <p>DWG NO. BC8</p>	 <p>SCREW ARRANGEMENTS FOR ROOF SHEETS</p> <p>OVERLAP RIDGE PURLIN 35mm Long Roof Screws OVERLAP INTERMEDIATE PURLINS 35mm Long Roof Screws OVERLAP EAVE PURLINS 35mm Long Roof Screws CORRUGATED ROOFING 0.42 BMT, 0.47 TCT ZA, 0.48 TCT CB</p> <p>DWG NO. RONC3</p>	 <p>SCREW ARRANGEMENTS FOR WALL SHEETS</p> <p>OVERLAP 16mm Long Roof Screws OVERLAP 0.42 CORRUGATED WALL CLADDING 0.42 BMT 0.47 TCT ZA 0.48 TCT CB</p> <p>DWG NO. WONC3</p>	 <p>"C" SECTION DOOR HEADER RAFTER END WALL DOOR JAMB 4-14 GAUGE "TEKS" PER ANGLE BRACKET</p> <p>DWG NO. DFRG</p>
 <p>2 x 'Tek's Screws PA DOOR JAMB WALL GIRT OUTSIDE BUILDING INSIDE BUILDING</p> <p>DWG NO. PADD1</p>	 <p>FLY BRACING COLUMN OR RAFTER TEK' (X2) ROOF PURLIN OR WALL GIRT FLY BRACING</p> <p>DWG NO. FBR</p>	 <p>STRAP BRACE 2x14 GAUGE TEK SCREW ROOF PURLIN RAFTER</p> <p>STRAP BRACE TEK SCREWED TO UNDERSIDE OF PURLIN</p> <p>DWG NO. PTSB</p>	 <p>COLUMN WALL GIRT STRAP BRACE 3x14 GAUGE TEK SCREW</p> <p>STRAP BRACE IS BENT OVER GIRT AND TEK SCREWED TO FLANGE OF COLUMN</p> <p>DWG NO. GTSB</p>	 <p>TOP OF COLUMNS DOUBLE EAVE PURLIN BRACKET SINGLE EAVE PURLIN BRACKET</p> <p>DWG NO. EPB2</p>
 <p>RAFTER COLUMN MULLION FIXING ANGLE BRACKET</p> <p>BOLTED FRAME</p> <p>DWG NO. LTRMFADB</p>	 <p>8 x M12 THROUGH BOLTS HAUNCH BRACKET COLUMN KNEE BRACE*</p> <p>*EXACT NO. OF M12 BOLTS FOR KNEE BRACE AS PER MEMBER SCHEDULE (MINIMUM 35mm CENTER TO CENTER & EDGE DISTANCE)</p> <p>DWG NO. KL21BB</p>	 <p>COLUMN RAFTER MULLION FIXING ANGLE BRACKET</p> <p>BOLTED FRAME</p> <p>DWG NO. LTRMFADB</p>	 <p>8 x M12 THROUGH BOLTS HAUNCH BRACKET COLUMN KNEE BRACE*</p> <p>*EXACT NO. OF M12 BOLTS FOR KNEE BRACE AS PER MEMBER SCHEDULE (MINIMUM 35mm CENTER TO CENTER & EDGE DISTANCE)</p> <p>DWG NO. KL31BB</p>	

MEMBER AND MATERIAL SCHEDULE

1	C.S. FRAME RAFTER	Single C20015
2	C.S. FRAME COLUMN	Single C20015
3	C.S. FRAME KNEE BRACE	Single C10010 @ 1.08m LONG. 2 bolts each end
4	KNEE BRACE HEIGHT UP COLUMN	3.36m
5	KNEE BRACE LENGTH UP RAFTER	0.43m
6	C.S. FRAME APEX BRACE	Single C10010 @ 1.32m LONG. 2 bolts each end
7	APEX POSITION FROM RAFTER END	0.71m
8	ENDWALL RAFTER	C20015
9	ENDWALL COLUMN	C20015
10	C.S. LEFT LEANTO RAFTER	Single C15015
11	C.S. LEFT LEANTO COLUMN	Single C15015
12	C.S. LEFT LEANTO KNEE BRACE	Single C10010 @ 0.6m LONG. 2 bolts each end
13	L. LEANTO KNEE BRACE HEIGHT UP COLUMN	2.26m
14	L. LEANTO KNEE BRACE LENGTH UP RAFTER	0.41m
15	LEFT LEANTO ENDWALL RAFTERS	C15015
16	LEFT LEANTO ENDWALL COLUMN	C15015
17	C.S. RIGHT LEANTO RAFTER	Single C15015
18	C.S. RIGHT LEANTO COLUMN	Single C15015
19	C.S. RIGHT LEANTO KNEE BRACE	Single C10010 @ 0.6m LONG. 2 bolts each end
20	R. LEANTO KNEE BRACE HEIGHT UP COLUMN	2.26m
21	R. LEANTO KNEE BRACE LENGTH UP RAFTER	0.41m
22	RIGHT LEANTO ENDWALL RAFTERS	C15015
23	RIGHT LEANTO ENDWALL COLUMN	C15015
24	ENDWALL VERTICAL MULLIONS	Single C15015
25	ANCHOR BOLTS (# PER DETS.)	Sleeve Anchor 16.0x110 Z/Y
26	EAVE PURLIN	C10015 (Eave Purlin Bracket 36mm down from top of column)
27	LEFT LEANTO EAVE PURLIN	C10015 (Eave Purlin Bracket 23mm down from top of column)
28	RIGHT LEANTO EAVE PURLIN	C10015 (Eave Purlin Bracket 23mm down from top of column)
29	TYP. ROOF PURLIN SIZE	Tophat 64 x 1.0
30	MAIN BLDG. PURLIN SPACING	1.02 m. (2 rows) (Max Allow. 1.02m)
31	MAIN BLDG. PURLIN LENGTH	4.1 m. (0.1m Overlap)
32	LEFT LEANTO PURLIN SPACING	0.81 m. (5 rows) (Max Allow. 1.00m)
33	RIGHT LEANTO PURLIN SPACING	0.81 m. (5 rows) (Max Allow. 1.00m)
34	TYP. SIDEWALL GIRT SIZE	Tophat 64 x 1.0
35	MAIN BLDG. SIDEWALL GIRT SPACING	1.30 m. (3 rows) (Max Allow. 1.48m)
36	MAIN BLDG. SIDEWALL GIRT LENGTH	4.1 m. (0.1m Overlap)
37	LEFT LEANTO SIDEWALL GIRT SPACING	1.26 m. (2 rows) (Max Allow. 1.48m)
38	RIGHT LEANTO SIDEWALL GIRT SPACING	1.26 m. (2 rows) (Max Allow. 1.48m)
39	TYP. ENDWALL GIRT SIZE	Tophat 64 x 1.0
40	MAIN BLDG. ENDWALL GIRT SPACING	1.46 m. (3 rows) (Max Allow. 1.48m)
41	MAIN BLDG. ENDWALL GIRT LENGTH	3.47 m. (0m Overlap)
42	LEFT LEANTO ENDWALL GIRT SPACING	1.04 m. (3 rows) (Max Allow. 1.48m)
43	RIGHT LEANTO ENDWALL GIRT SPACING	1.04 m. (3 rows) (Max Allow. 1.48m)
44	FRAME SCREW FASTENERS	14-13x22 Hex C/S (SP HD 5/16" Hex Drive)
45	FRAME BOLT FASTENERS	Purlin Assy M12x30 Z/P
46	X-BRACING STRAP AND FASTENERS	Single Bracing Strap Per Roll Light
47	WALL COLOUR	CLASSIC_CREAM
48	ROOF COLOUR	PALE_EUCALYPT
49	ROLLER DOOR COLOUR	PALE_EUCALYPT
50	P.A. DOOR COLOUR	CLASSIC_CREAM
51	WINDOW COLOUR	PALE_EUCALYPT
52	DOWNPIPE COLOUR	CLASSIC_CREAM
53	GUTTER COLOUR	PALE_EUCALYPT
54	CORNER FLASHING COLOUR	PALE_EUCALYPT
55	BARGE FLASHING COLOUR	PALE_EUCALYPT
56	OPENING FLASHING COLOUR	PALE_EUCALYPT
57	OPEN BAY HEADER HEIGHT	0.5

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

SHEET	5
OF	6
JOB NO.	STON78892
DATE	12/1/2012
CHECKED	TM
DRAWN	FDHS

STEEL BUILDING BY (CONTACT)
STONE HOMES
02 4647 1545
FOR
MITCHELL PRYCE
AT
38 TO 44 KEECH RD
CASTLEREAGH



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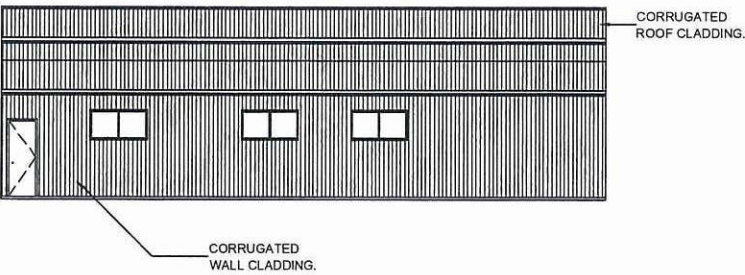
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Registered Professional Engineer (Civil & Structural) QLD
Registered Certifying Engineer (Structural) N.T.
Registered Engineer - (Civil) VIC
Registered Engineer - (Civil) TAS

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Regn. No. CC5848M

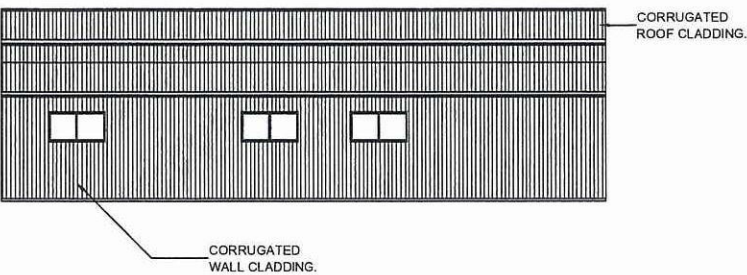
Mr Timothy Roy Messer BE MIEAust RPEQ
Registered Professional Engineer 2558980
Signature

Date 12/1/12
Registered on the NPER in the areas of practice
of Civil & Structural National Professional
Engineers Register

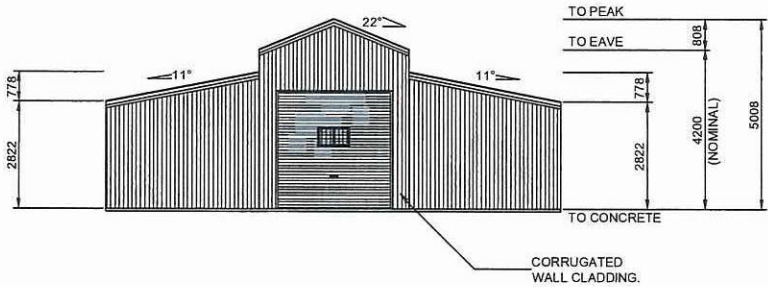
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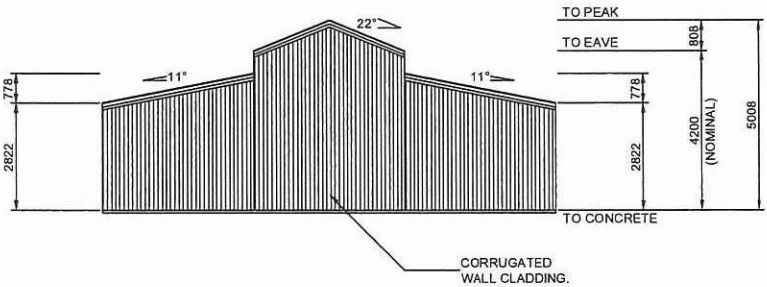
1 SIDEWALL EXTERIOR ELEVATION
6 SCALE: 1 = 200



2 SIDEWALL EXTERIOR ELEVATION
6 SCALE: 1 = 200



4 ENDWALL EXTERIOR ELEVATION
6 SCALE: 1 = 200



3 ENDWALL EXTERIOR ELEVATION
6 SCALE: 1 = 200

BUILDING COLOURS	
WALL	CLASSIC CREAM
ROOF	PALE EUCALYPT
ROLLER DOOR	PALE EUCALYPT
P.A. DOOR	CLASSIC CREAM
WINDOW	PALE EUCALYPT
DOWNPIPE	CLASSIC CREAM
GUTTER	PALE EUCALYPT
CORNER FLASHING	PALE EUCALYPT
BARGE FLASHING	PALE EUCALYPT
OPENING FLASHING	PALE EUCALYPT

6	6
OF	OF
SHEET	SHEET
JOB NO.	STON78892
DATE	12/1/2012
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STEEL BUILDING BY (CONTACT)
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Regn. No. 116373ES
Regn. No. EC36682
Regn. No. CC5648M

Mr Timothy Roy Messer BE MIEAust RPEQ
Registered Professional Engineer 2558980
Signature *T. Messer*
Date 12/1/12
Registered on the NPER in the areas of practice
of Civil & Structural National Professional
Engineers Register

NOTES:

BRACING MATERIALS - THE SHED ERECTOR TO SUPPLY SPECIFIC BRACING.

SUITABLE RIGID MEMBERS CAPABLE OF TENSION AND COMPRESSION OR OPPOSING CHAINS OR OPPOSING LOAD RATED RATCHET STRAPS TO BE USED. (RIGID BRACING AS SHOWN ON DIAGRAM) ROPE BRACING SUITABLE ONLY FOR SMALLER STRUCTURES IN IDEAL CONDITIONS.

BRACING LOCATION - TEMPORARY BRACING TO BE ERECTED AS CLOSE

TO 45 DEGREE ANGLE AND FIXED TO THE TOP OF THE COLUMN OR MULLION TO ACHIEVE THE OPTIMUM EFFECTIVENESS. IF THERE IS NOT ENOUGH SPACE FOR A 45 DEGREE ANGLE, THEN 20 DEGREE ANGLE IS TO BE THE MINIMUM ANGLE ALLOWED (REFER TO DIAGRAM). RIGID TEMPORARY BRACING MEMBER TO BE BOLTED TO HEAVY ANGLE PEGS HAMMERED INTO THE GROUND OR TO A BRACKET, MASONRY ANCHORED TO THE SLAB.

BRACING REMOVAL - TEMPORARY BRACING TO REMAIN IN PLACE UNTIL

CLADDING IS FULLY INSTALLED WHERE POSSIBLE. IN NO CASE SHOULD TEMPORARY BRACING BE REMOVED UNTIL ALL PURLINS, GIRTS (AND PERMANENT CROSS BRACING WHERE USED) ARE FIXED.

SITE SAFETY - DUE CONSIDERATION TO BE GIVEN TO SITE SAFETY IN REGARD TO LOCATIONS OF BRACING AND PEGS.

GUIDE APPLICATION - TEMPORARY BRACING AS DESCRIBED IS A MINIMUM

REQUIREMENT FOR AN AVERAGE, STANDARD SITE CONDITION. PROVIDE ADDITIONAL BRACING FOR MORE SEVERE AND/OR HIGH EXPOSURE SITE CONDITIONS. ADDITIONAL BRACING TO BE USED AS AND WHERE NECESSARY TO ENSURE THAT ENTIRE FRAME IS RIGID THROUGHOUT CONSTRUCTION. RESPONSIBILITY FOR ENSURING STABILITY OF STRUCTURE REMAINS WITH THE BUILDER.

TILT UP METHOD

FOR STRUCTURES UNDER 9M SPAN, LESS THAN 3M HIGH AND LESS THAN 12M LONG

- ASSEMBLE THE FIRST SIDEWALL FRAME (COMPLETE WITH WALL SHEETING, BRACING AND GUTTER) ON THE GROUND AND LIFT ASSEMBLED SIDEWALL FRAME INTO POSITION. FIX OFF TEMPORARY SIDE BRACING TO EACH END (REFER TO DIAGRAM). FIX BASE CLEATS.
- ASSEMBLE THE SECOND SIDEWALL FRAME AS PER FIRST SIDEWALL FRAME. LIFT INTO POSITION. FIX OFF TEMPORARY WALL BRACING TO EACH END (REFER TO DIAGRAM) FIX BASE CLEATS.
- FIX GABLE END RAFTERS TO COLUMNS TO TIE WALLS. PROP APEX UNTIL ENDWALL MULLION AND APEX TEMPORARY BRACE ARE FIXED OFF. IF NO MULLION IS REQUIRED THEN PROP AND BRACE APEX UNTIL CLADDING IS COMPLETE.
- INSTALL REMAINING RAFTERS. AS EACH RAFTER PAIR IS INSTALLED, AT LEAST ONE PURLIN PER 3M OF RAFTER LENGTH IS TO BE INSTALLED TO SECURE RAFTERS.
- INSTALL REMAINING PURLINS
- INSTALL KNEE AND APEX BRACES IF AND WHERE APPLICABLE.
- REPEAT FOR LEANTO'S.

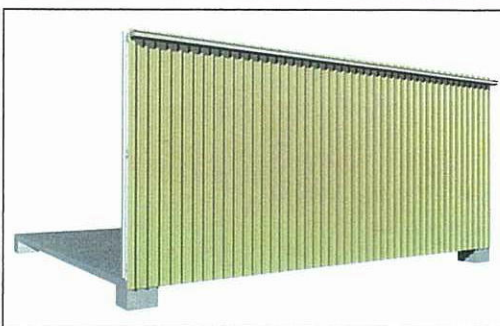
FRAME FIRST METHOD

FOR STRUCTURES OVER 9M SPAN, GREATER THAN 3M HIGH AND GREATER THAN 12M LONG

- ASSEMBLE PORTAL FRAMES ON THE GROUND (WITH KNEE AND APEX BRACES IF AND WHERE APPLICABLE). LIFT THE FIRST PORTAL FRAME ASSEMBLY INTO POSITION. FIX OFF TEMPORARY END BRACING (REFER TO DIAGRAM). FIX BASE CLEATS.
- PROP APEX UNTIL ENDWALL MULLION AND APEX TEMPORARY BRACE ARE FIXED OFF. IF NO MULLION IS REQUIRED THEN PROP AND BRACE APEX UNTIL CLADDING IS COMPLETE.
- THE SECOND PORTAL FRAME ASSEMBLY TO BE LIFTED INTO POSITION. FIX EAVE PURLINS AND AT LEAST ONE PURLIN PER 3M OF RAFTER TO SECURE FRAME ASSEMBLY. FIX BASE CLEATS. FIX TEMPORARY SIDEWALL BRACING.
- STAND REMAINING PORTAL FRAME ASSEMBLY AS PER STEP C, FIXING TEMPORARY SIDE WALL BRACING TO EVERY SECOND BAY. BRACE OTHER END PORTAL FRAME AS PER FIRST PORTAL FRAME.
- INSTALL REMAINING PURLINS AND GIRTS.
- REPEAT FOR LEANTO'S.

GUIDE TO THE INSTALLATION OF TEMPORARY BRACING

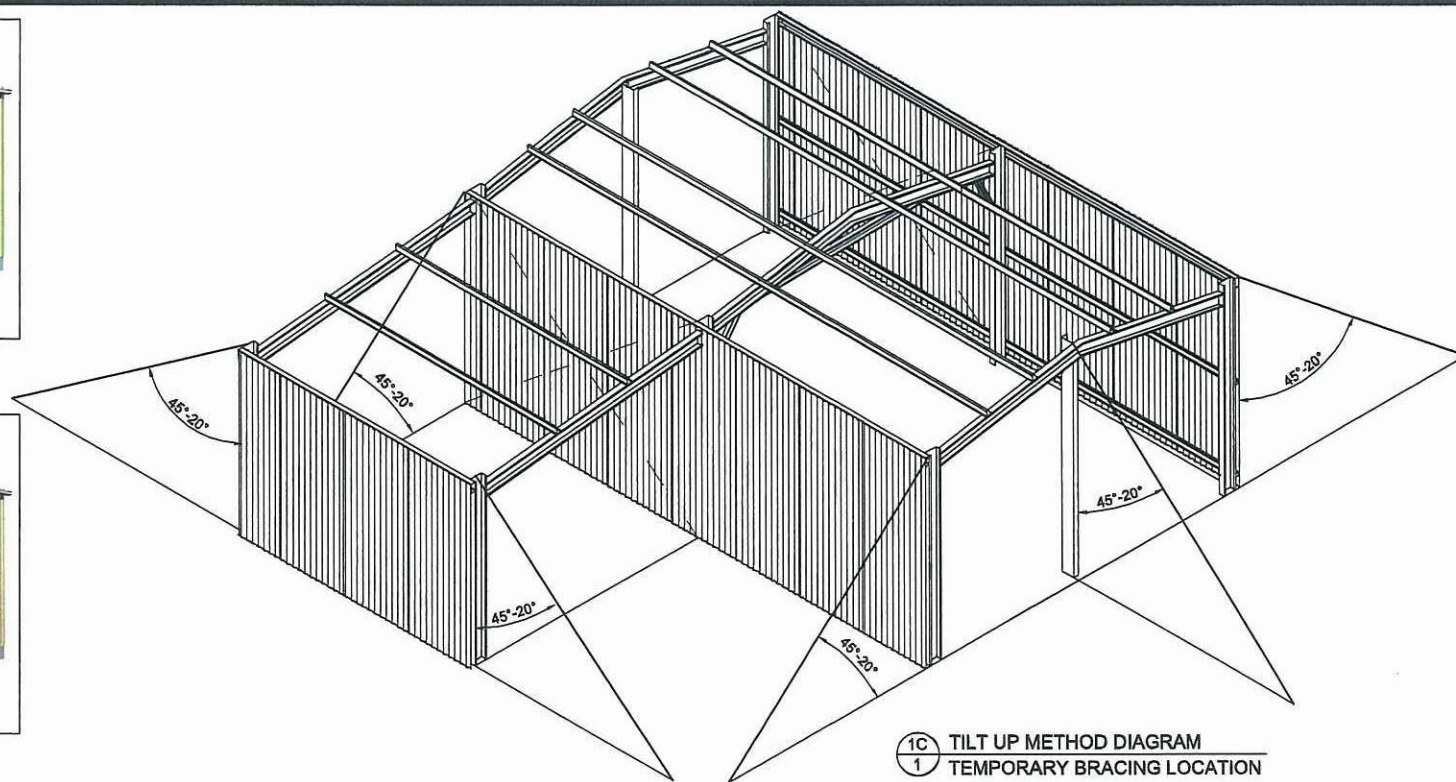
(REFER TO FDHS INSTALLATION GUIDE MANUAL FOR THE TWO METHODS OF CONSTRUCTION)



1A FIRST SIDEWALL FRAME
1 REFER 1C FOR TEMPORARY BRACING LOCATION

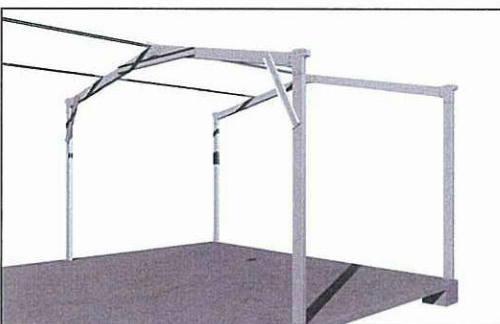


1B SECOND SIDEWALL FRAME
1 REFER 1C FOR TEMPORARY BRACING LOCATION



1C TILT UP METHOD DIAGRAM
1 TEMPORARY BRACING LOCATION

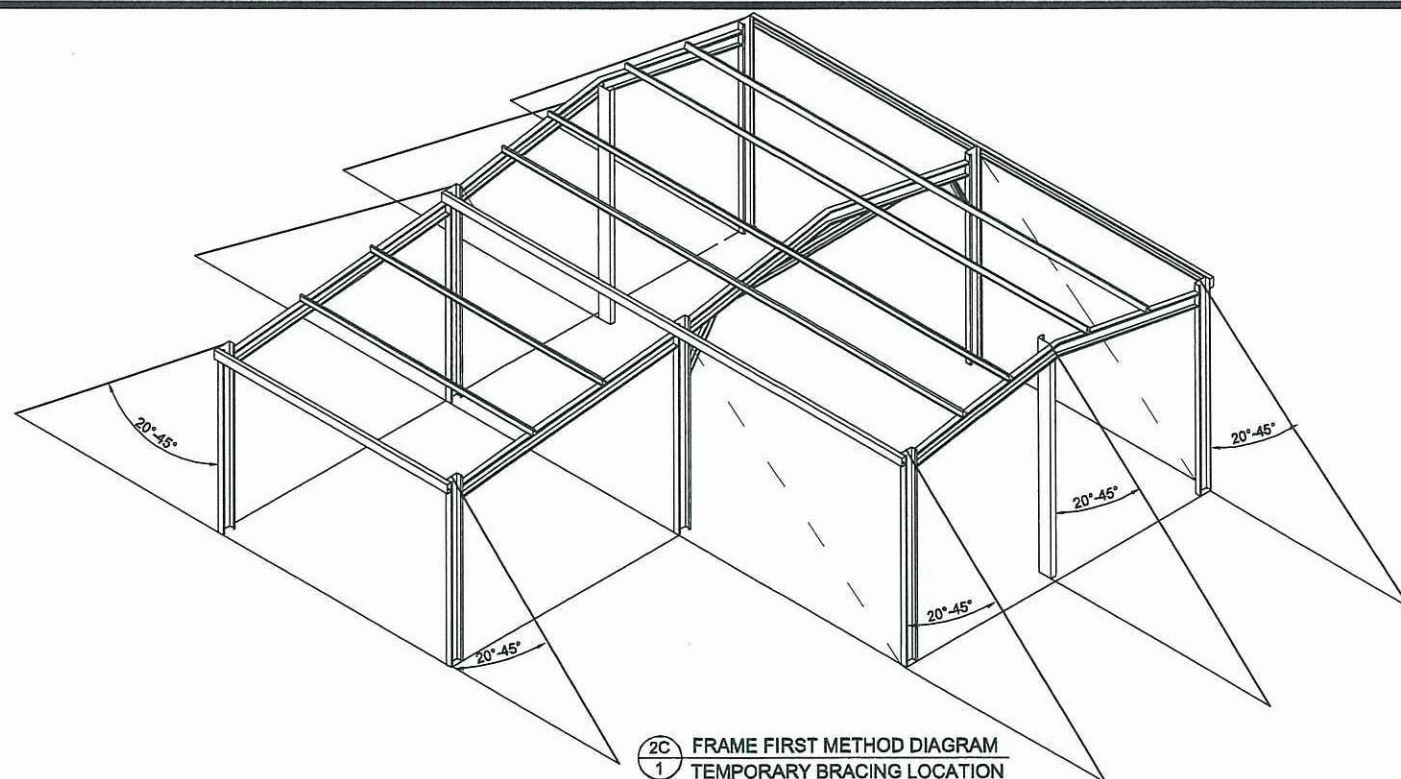
1 TILT UP METHOD DIAGRAM
1 SCALE: NTS



2A FIRST & SECOND PORTAL FRAME ASSEMBLY
1 REFER 2C FOR TEMPORARY BRACING LOCATION



2B COMPLETE PORTAL FRAME ASSEMBLY
1 REFER 2C FOR TEMPORARY BRACING LOCATION



2C FRAME FIRST METHOD DIAGRAM
1 TEMPORARY BRACING LOCATION

2 FRAME FIRST METHOD DIAGRAM
1 SCALE: NTS

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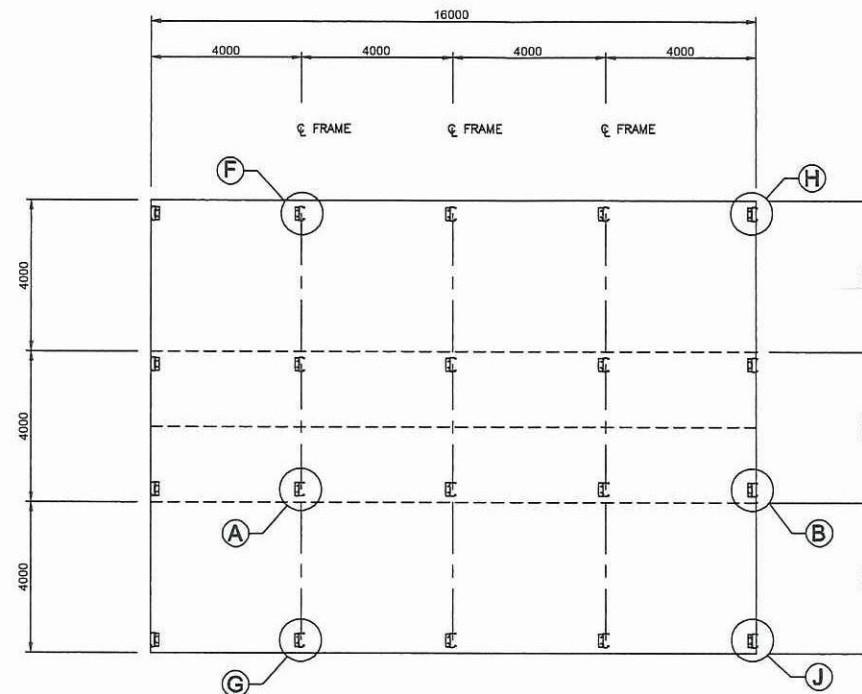
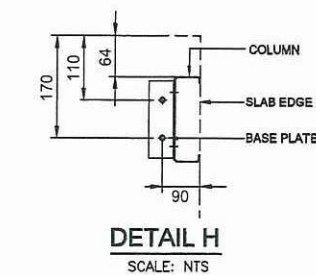
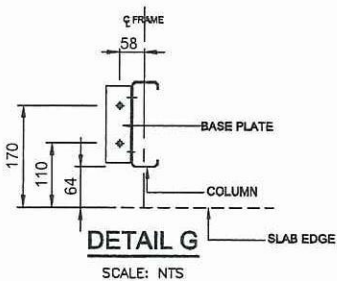
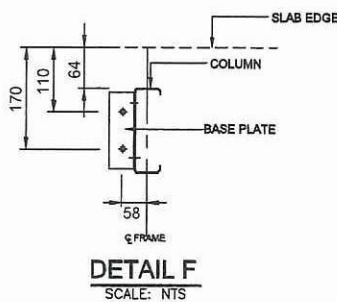
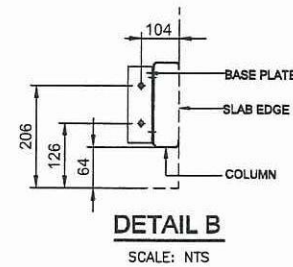
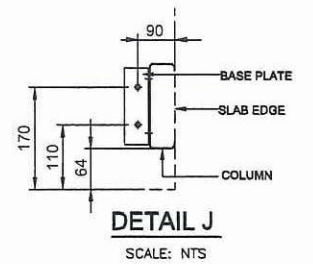
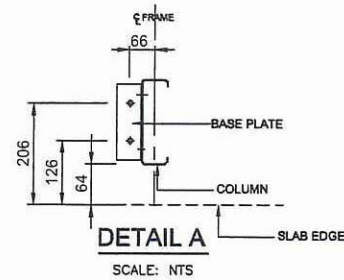
Mr Timothy Roy Messer BE MIEAust RPEQ
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Signature *T. Messer*

Date 12/1/12

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1 BOLT LAYOUT PLAN
1 SCALE: 1 = 200

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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.

JOB NO. STON78892	DATE 12/1/2012	CHECKED TM	DRAWN FDHS	STEEL BUILDING BY	FOR	AT	STONE HOMES 02 4647 1545 MITCHELL PRYCE 38 TO 44 KEECH RD CASTLEREAGH	SHED SAFE ACCREDITED	fairdinkum SHEDS	BOLT LAYOUT PLAN