



CARPORTS, GARAGES
AND SHEDS



Application for a Permit to Construct or Demolish

This form is authorized under subsection 8(1.1) of the *Building Code Act, 1992*

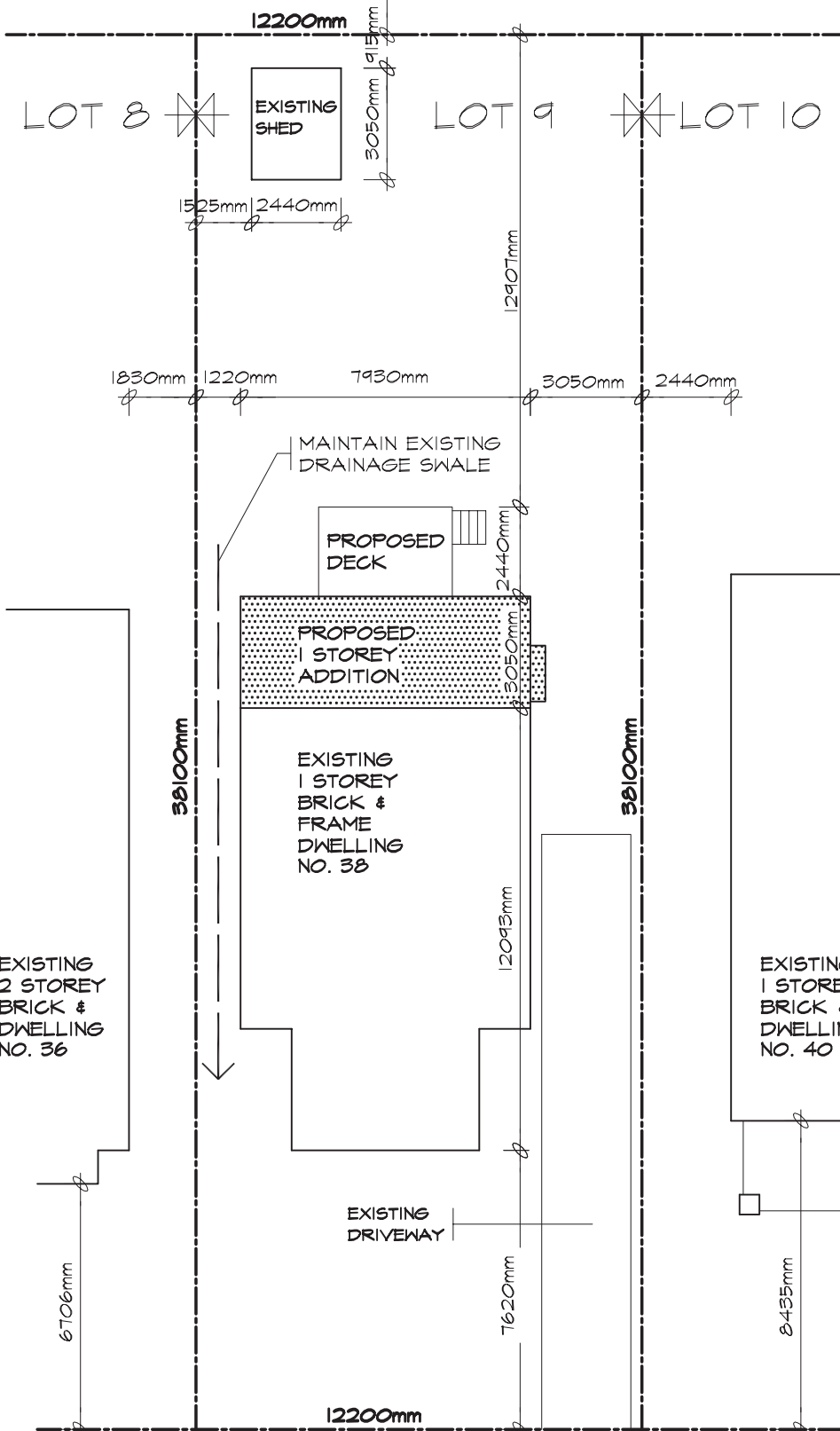
For use by Principal Authority			
Application number:		Permit number (if different):	
Date received:		Roll number:	
Application submitted to: <u>Town of Ajax</u>			
A. Project information			
Building number, street name		Unit number	Lot/con.
Municipality	Postal code	Plan number/other description	
Project value est. \$		Area of work (m ²)	
B. Purpose of application			
<input type="checkbox"/> New construction <input type="checkbox"/> Addition to existing building <input type="checkbox"/> Alteration/repair <input type="checkbox"/> Demolition <input type="checkbox"/> Conditional permit			
Proposed use of building		Current use of building	
Description of proposed work			
C. Applicant			
Applicant is: <input type="checkbox"/> Owner or <input type="checkbox"/> Authorized agent of owner			
Last name	First name	Corporation or partnership	
Street address		Unit number	Lot/con.
Municipality	Postal code	Province	E-mail
Telephone number ()	Fax ()	Cell number ()	
D. Owner (if different from applicant)			
Last name	First name	Corporation or partnership	
Street address		Unit number	Lot/con.
Municipality	Postal code	Province	E-mail
Telephone number ()	Fax ()	Cell number ()	

This content is available in alternative formats upon request by contacting 905-683-4550 or emailing contactus@ajax.ca.

E. Builder (optional)				
Last name	First name	Corporation or partnership (if applicable)		
Street address			Unit number	Lot/con.
Municipality	Postal code	Province	E-mail	
Telephone number ()	Fax ()	Cell number ()		
F. Tarion Warranty Corporation (Ontario New Home Warranty Program)				
i. Is proposed construction for a new home as defined in the <i>Ontario New Home Warranties Plan Act</i> ? If no, go to section G.			<input type="checkbox"/> Yes	<input type="checkbox"/> No
ii. Is registration required under the <i>Ontario New Home Warranties Plan Act</i> ?			<input type="checkbox"/> Yes	<input type="checkbox"/> No
iii. If yes to (ii) provide registration number(s): _____				
G. Required Schedules				
i) Attach Schedule 1 for each individual who reviews and takes responsibility for design activities.				
ii) Attach Schedule 2 where application is to construct on-site, install or repair a sewage system.				
H. Completeness and compliance with applicable law				
i) This application meets all the requirements of clauses 1.3.1.3 (5)(a) to (d) of Division C of the Building Code (the application is made in the correct form and by the owner or authorized agent, all applicable fields have been completed on the application and required schedules, and all required schedules are submitted). Payment has been made of all fees that are required, under the applicable by-law, resolution or regulation made under clause 7(1)(c) of the <i>Building Code Act, 1992</i> , to be paid when the application is made.			<input type="checkbox"/> Yes	<input type="checkbox"/> No
ii) This application is accompanied by the plans and specifications prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the <i>Building Code Act, 1992</i> .			<input type="checkbox"/> Yes	<input type="checkbox"/> No
iii) This application is accompanied by the information and documents prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the <i>Building Code Act, 1992</i> which enable the chief building official to determine whether the proposed building, construction or demolition will contravene any applicable law.			<input type="checkbox"/> Yes	<input type="checkbox"/> No
iv) The proposed building, construction or demolition will not contravene any applicable law.			<input type="checkbox"/> Yes	<input type="checkbox"/> No
I. Declaration of applicant				
I _____ declare that: (print name)				
1. The information contained in this application, attached schedules, attached plans and specifications, and other attached documentation is true to the best of my knowledge.				
2. If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.				
_____ Date		_____ Signature of applicant		

Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the *Building Code Act, 1992*, and will be used in the administration and enforcement of the *Building Code Act, 1992*. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor. Toronto, M5G 2E5 (416)585-6666.

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SITE PLAN

SCALE 1:200

SKETCH OF SURVEY OF LOT 9
 REG.'D PLAN 4220
 CITY OF TORONTO
 B.C. TRANSIT. O.L.S.
 DECEMBER 31ST, 1999

KHALMUR CRESCENT

ZONING	LOT NO:		PLAN NO:	LOT AREA			LOT FRONTAGE		LOT DEPTH
R2 Z0.6	LOT 9		4220	580.64m ²			12200mm		38110mm
DESCRIPTION	EXISTING	ADDITION	TOTAL	%	ALLOWED	%	SETBACKS	EXISTING	PROPOSED
LOT COVERAGE	86.52m ²	24.15m ²	110.65m ²	19.0	-----		FRONT YARD	7620mm	7620mm
GROSS FLOOR AREA	86.52m ²	24.15m ²	110.65m ²	19.0	348.39m ²	60.0	REAR YARD	18390mm	12907mm
LANDSCAPED AREA	-----	-----	-----		-----		INTERIOR SIDE (east)	3050mm	3050mm
NO. OF STORIES	1 STOREY 4550mm	1 STOREY 4550mm	1 STOREY 4550mm		10000mm		INTERIOR SIDE (west)	1220mm	1220mm
WIDTH	7930mm	7930mm	7930mm		-----		EXTERIOR	-----	-----
DEPTH	12093mm	3050mm	15143mm		17000mm				
PARKING	-----	-----	-----		-----				

NOTE: ZONING RESTRICTIONS VARY IN EVERY MUNICIPALITY. CONTACT YOUR LOCAL MUNICIPAL OFFICE FOR SPECIFIC SETBACKS AND OTHER LIMITATIONS IN YOUR AREA.

**LMCBO
STANDARD
DETAILS**

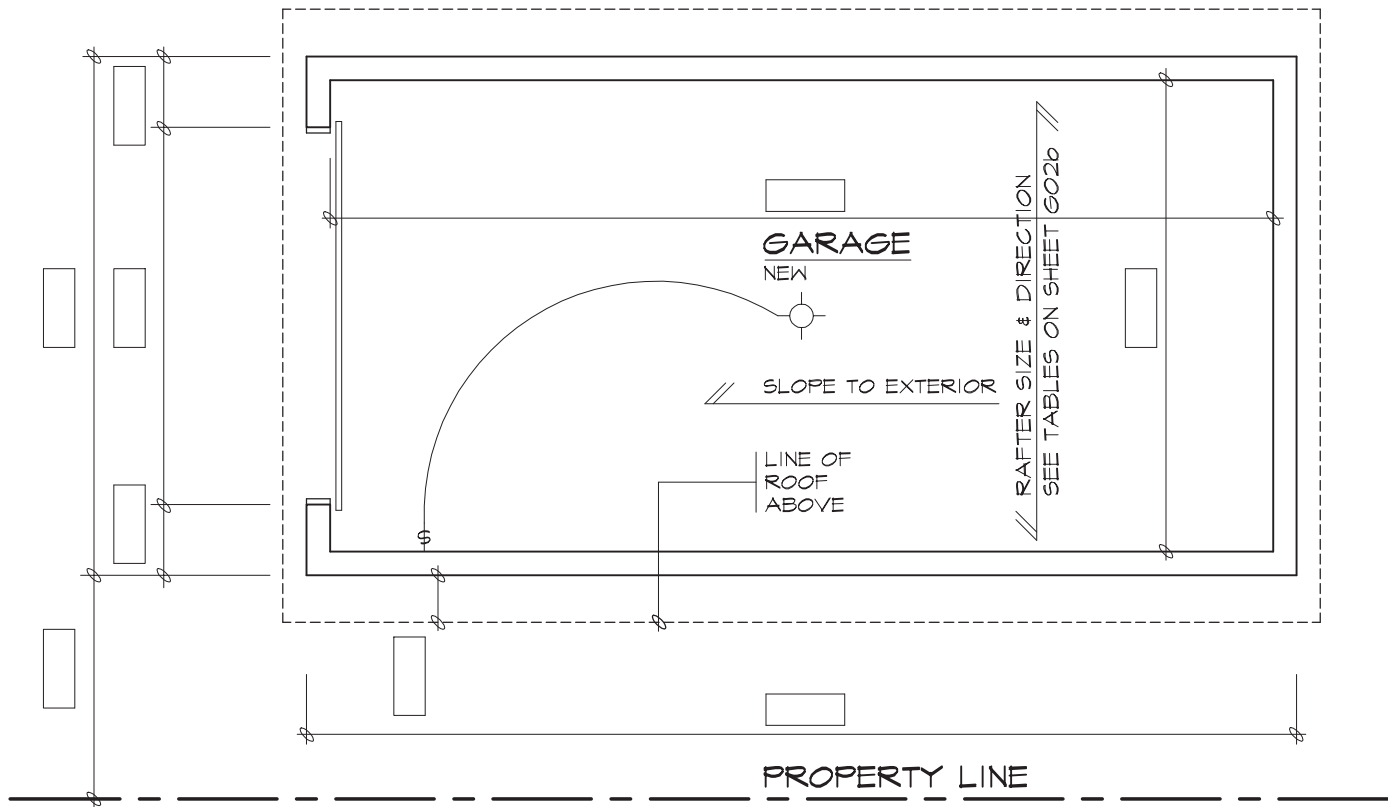
TITLE
SAMPLE DRAWING SITE PLAN

NOTE: UNDER THE BUILDING CODE ACT, THE LOCAL MUNICIPALITY IS THE AUTHORITY HAVING JURISDICTION FOR ENFORCING THE ACT AND IT'S REGULATIONS. IT IS THE RESPONSIBILITY OF THE OWNER/DESIGNER TO ENSURE THAT ALL DESIGNS SUBMITTED FOR A PERMIT ARE IN ACCORDANCE WITH THE BUILDING CODE ACT, BUILDING CODE AND ANY OTHER APPLICABLE LAW.

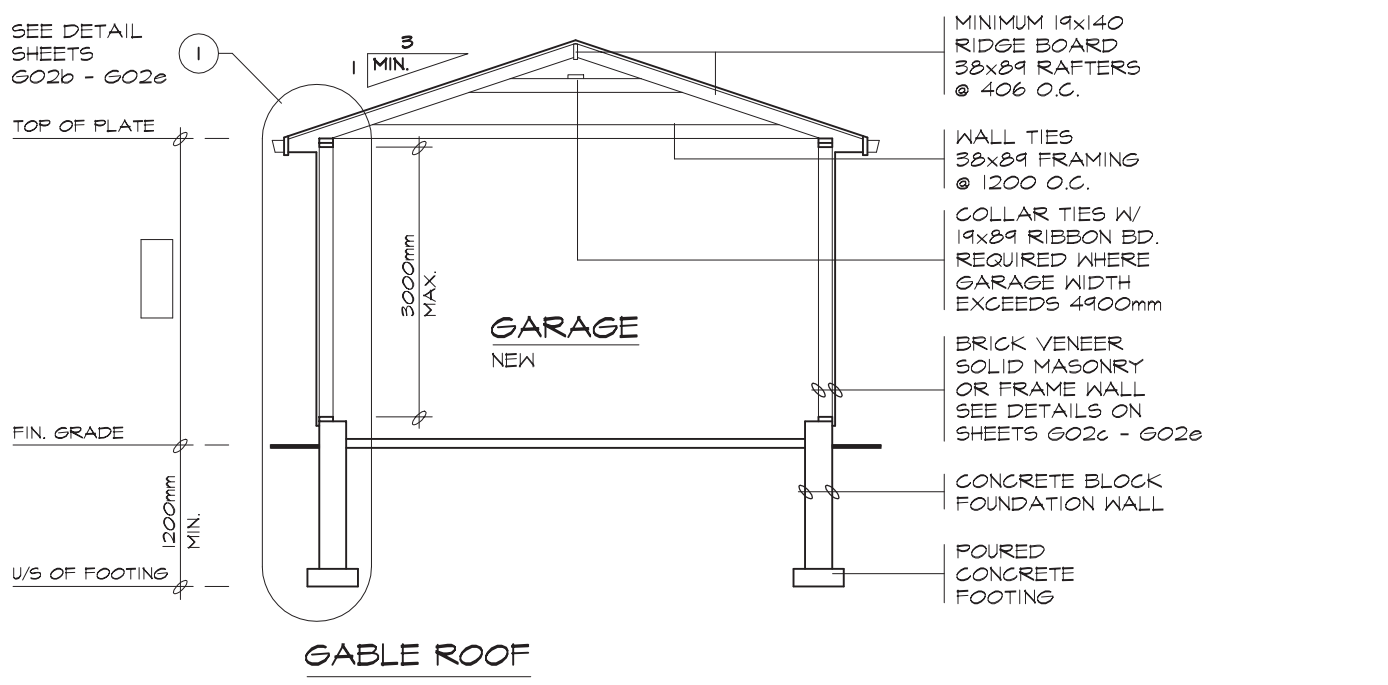
DWG. NO.

A03a

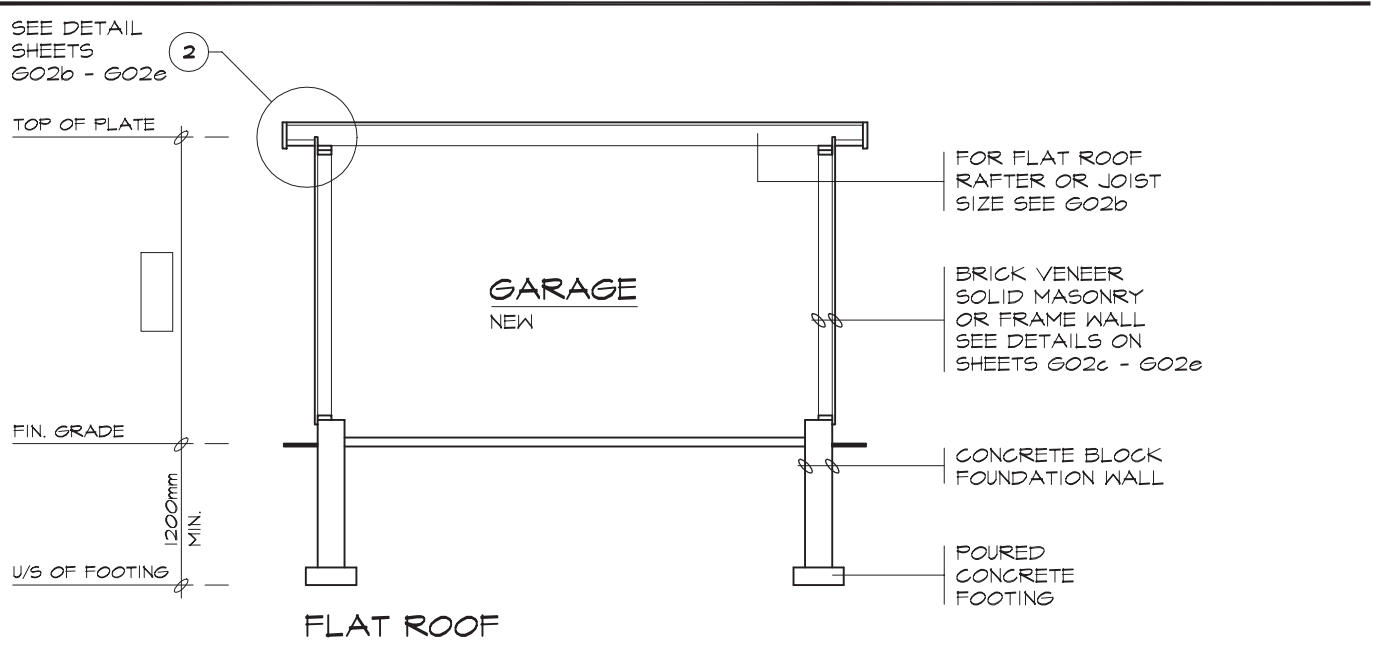
2012



GARAGE PLAN (PROVIDE DIMENSIONS IN BOXES)



GABLE ROOF



FLAT ROOF

**LMCBO
STANDARD
DETAILS**

TITLE
DETACHED GARAGE SLOPING OR FLAT ROOF PLAN & SECTIONS

DWG. NO.

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G02a

2012

ROOF RAFTERS (FLAT ROOF - WHERE NO CEILING IS INSTALLED)

MAXIMUM CLEAR SPAN (M)						
RAFTER SIZE	ROOF SNOW LOAD 1.0kPa			ROOF SNOW LOAD 1.5kPa		
	RAFTER SPACING (mm) O.C.			RAFTER SPACING (mm) O.C.		
	305	406	610	305	406	610
38x89	3.11	2.83	2.47	2.72	2.47	2.16
38x140	4.90	4.45	3.89	4.28	3.89	3.40
38x184	6.44	5.85	5.11	5.62	5.11	4.41
38x235	8.22	7.47	6.38	7.18	6.52	5.39

ROOF JOISTS (FLAT ROOF - WHERE CEILING IS INSTALLED)

MAXIMUM CLEAR SPAN (M)						
JOIST SIZE	ROOF SNOW LOAD 1.0kPa			ROOF SNOW LOAD 1.5kPa		
	JOIST SPACING (mm) O.C.			JOIST SPACING (mm) O.C.		
	305	406	610	305	406	610
38x140	3.89	3.53	3.08	3.40	3.08	2.69
38x184	5.11	4.64	4.05	4.46	4.05	3.54
38x235	6.52	5.93	5.18	5.70	5.18	4.52
38x286	7.94	7.21	6.30	6.94	6.30	5.50

LINTELS

DOOR WIDTH	LINTELS FOR WOOD FRAMING		LINTELS FOR BRICK VENEER 90mm		LINTELS FOR SOLID MASONRY 200mm	
	NOT SUPPORTING THE ROOF	SUPPORTING THE ROOF	NOT SUPPORTING THE ROOF	SUPPORTING THE ROOF	NOT SUPPORTING THE ROOF	SUPPORTING THE ROOF
UP TO 3000mm	2/38x184	2/38x286	2/38x184 + ANGLE 125x90x8	2/38x286 + ANGLE 125x90x8	2 ANGLES 150x100x10	W150x22 + PLATE 200x10
UP TO 4900mm	2/38x286	4/38x286 OR 2- 45x300 1.9E LVL	W200x27 + PLATE 200x10	W200x27 + PLATE 200x10	MUST BE DESIGNED	MUST BE DESIGNED

GENERAL NOTES

- ALL LUMBER TO BE NO. 1&2 SPRUCE OR BETTER
- ALL PLYWOOD SHALL BE STAMPED EXTERIOR GRADE
- ROOF LOAD DESIGN 1.0 kPa OR 1.5 kPa
- ALL FOOTINGS TO BEAR ON UNDISTURBED SOIL.
- IF GARAGE WALL IS LESS THAN 600mm TO THE PROPERTY LINE PROVIDE 15.9mm TYPE 'X' DRYWALL INTERIOR SHEATHING. NO WINDOWS ARE PERMITTED IN GARAGE WALLS LESS THAN 1200mm FROM PROPERTY LINE.
- FOR ONE STOREY WOOD FRAME DETACHED GARAGES LESS THAN 55M². AN ALTERNATE FOOTING MAY BE USED, SEE DETAIL SHEET G02c
- GARAGE SLAB SHALL BE 32 Mpa CONCRETE W/ 5% - 8% AIR ENTRAINMENT SLOPED TO DRAIN TO THE OUTSIDE.
- ROOF SHEATHING SHALL BE MIN. 9.5mm PLYWOOD PROVIDE 'H' CLIPS IF RAFTERS OR JOISTS ARE SPACED GREATER THAN 400mm O.C.
- PROVIDE A LIGHT FIXTURE IN THE GARAGE.
- STEEL BEAMS TO BE SUPPORTED BY SOLID MASONRY (190mm BEARING ON MASONRY OR 73mm DIA. STEEL COLUMN).
- LINTELS AND BEAMS TO BE DESIGNED BY A QUALIFIED PERSON FOR SPANS GREATER THAN 4900mm

**LMCBO
STANDARD
DETAILS**

TITLE

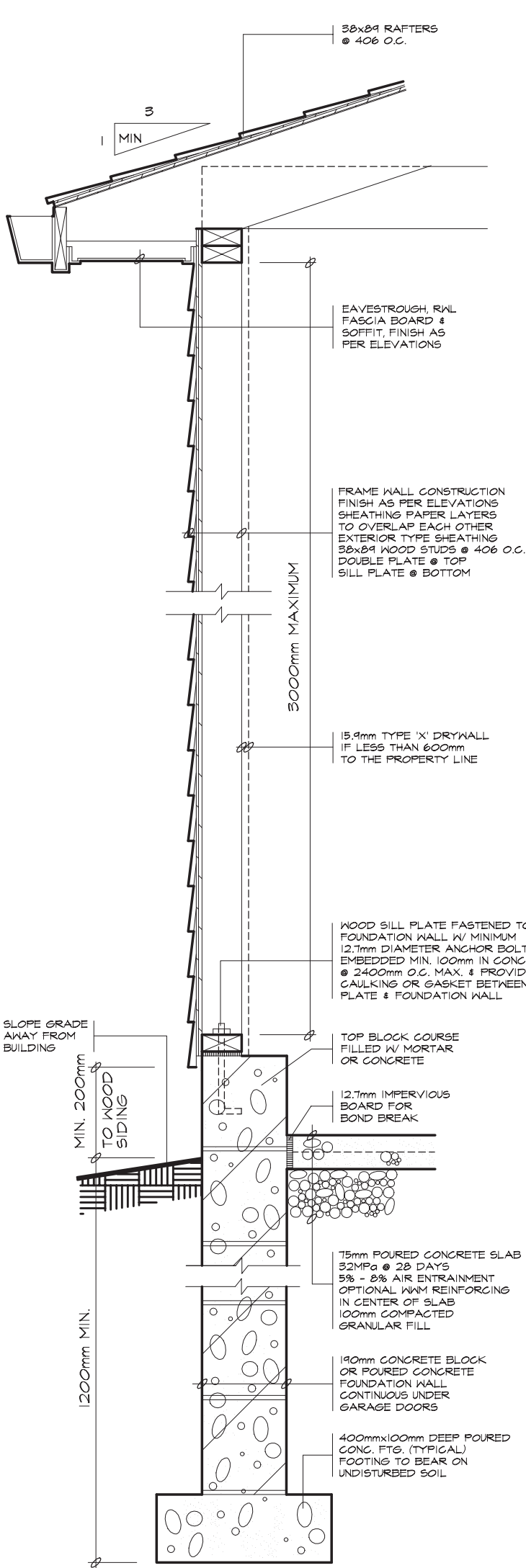
DETACHED GARAGE TABLES & NOTES

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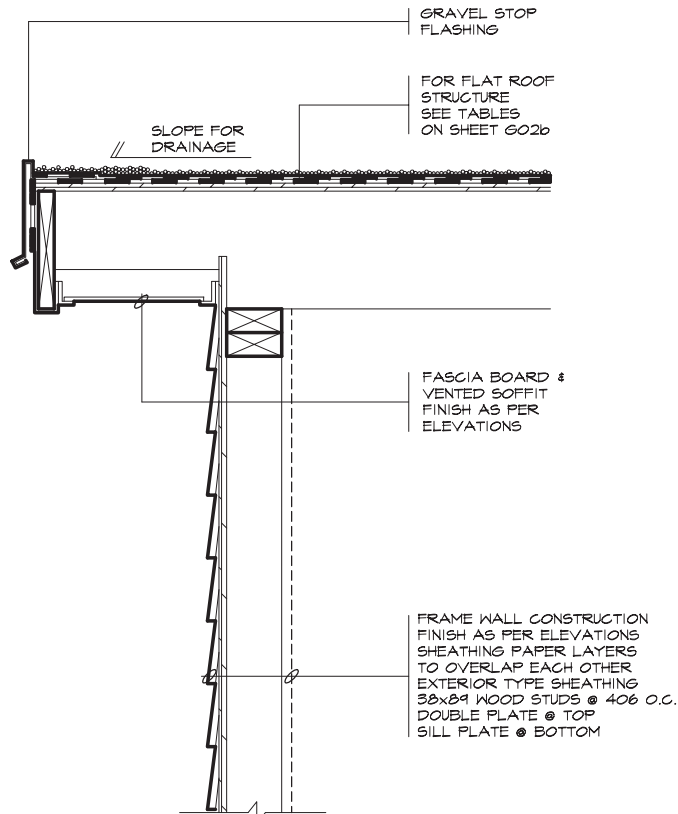
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G02b

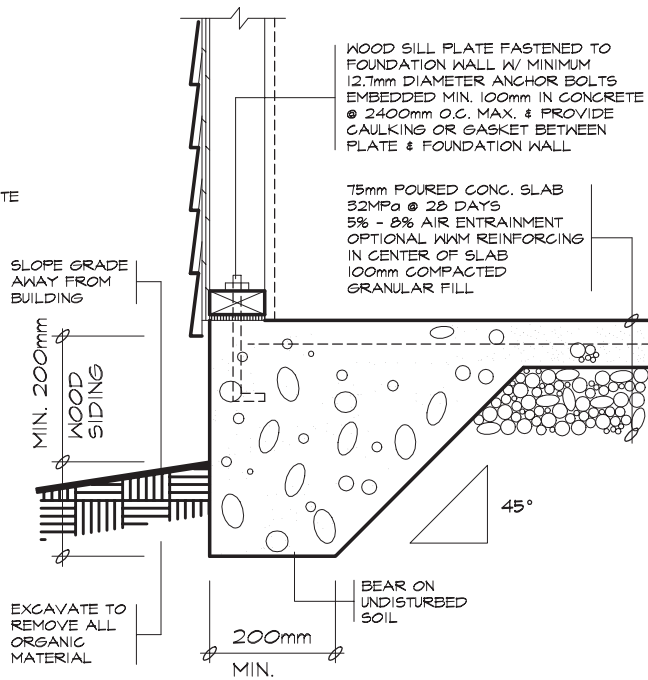
2012



1 WALL SECTION



2 FLAT ROOF



3 ALTERNATE FOR FRAME GARAGE
MAXIMUM 55M², ONE STOREY WOOD FRAME ONLY

**LMCBO
STANDARD
DETAILS**

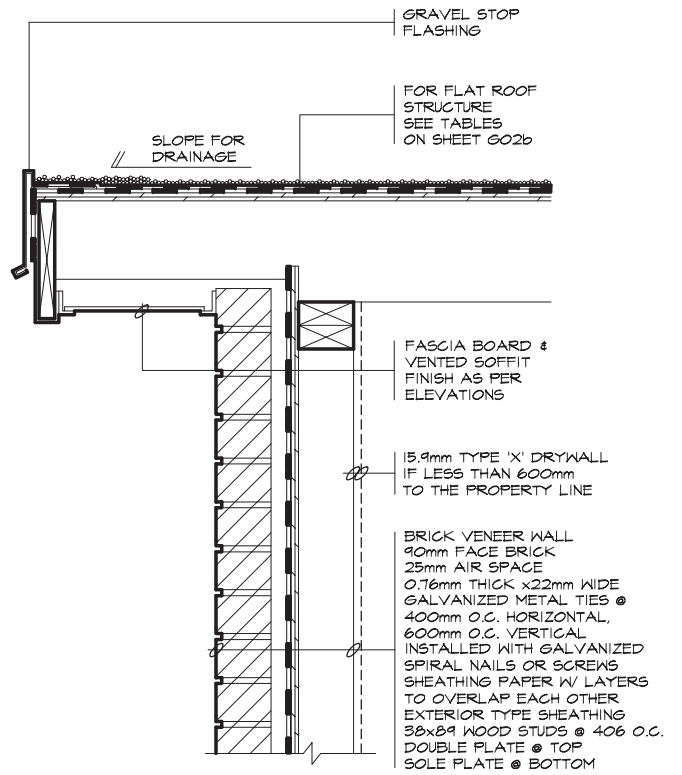
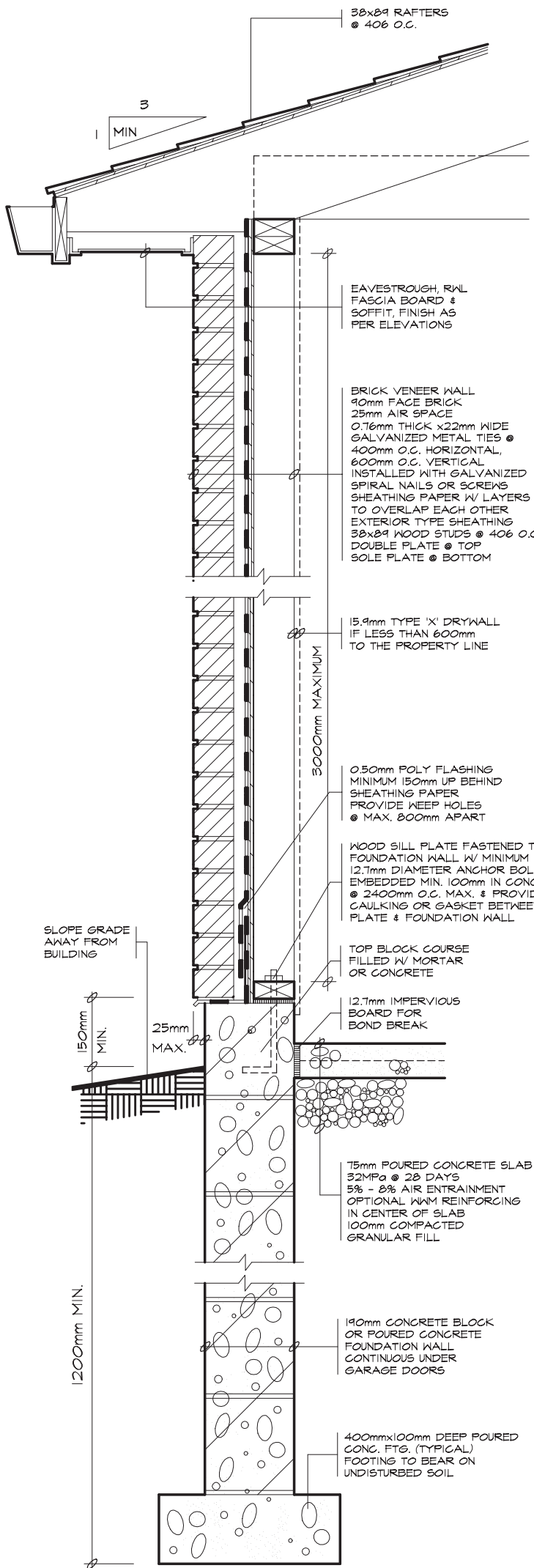
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DETACHED GARAGE FRAME DETAILS

DWG. NO.

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G02c

2012



2 FLAT ROOF

SLOPE GRADE AWAY FROM BUILDING

150mm MIN.
25mm MAX.

1200mm MIN.

3000mm MAXIMUM

38x89 RAFTERS @ 406 O.C.

3
1 MIN

EAVESTROUGH, R/WL FASCIA BOARD & SOFFIT, FINISH AS PER ELEVATIONS

BRICK VENEER WALL
90mm FACE BRICK
25mm AIR SPACE
0.76mm THICK x22mm WIDE GALVANIZED METAL TIES @ 400mm O.C. HORIZONTAL, 600mm O.C. VERTICAL
INSTALLED WITH GALVANIZED SPIRAL NAILS OR SCREWS
SHEATHING PAPER W/ LAYERS TO OVERLAP EACH OTHER
EXTERIOR TYPE SHEATHING
38x89 WOOD STUDS @ 406 O.C.
DOUBLE PLATE @ TOP
SOLE PLATE @ BOTTOM

15.9mm TYPE 'X' DRYWALL IF LESS THAN 600mm TO THE PROPERTY LINE

0.50mm POLY FLASHING
MINIMUM 150mm UP BEHIND SHEATHING PAPER
PROVIDE WEEP HOLES @ MAX. 800mm APART

WOOD SILL PLATE FASTENED TO FOUNDATION WALL W/ MINIMUM 12.7mm DIAMETER ANCHOR BOLTS EMBEDDED MIN. 100mm IN CONCRETE @ 2400mm O.C. MAX. & PROVIDE CAULKING OR GASKET BETWEEN PLATE & FOUNDATION WALL

TOP BLOCK COURSE FILLED W/ MORTAR OR CONCRETE

12.7mm IMPERVIOUS BOARD FOR BOND BREAK

15mm POURED CONCRETE SLAB
32MPa @ 28 DAYS
5% - 8% AIR ENTRAINMENT
OPTIONAL W/M REINFORCING IN CENTER OF SLAB
100mm COMPACTED GRANULAR FILL

190mm CONCRETE BLOCK OR POURED CONCRETE FOUNDATION WALL CONTINUOUS UNDER GARAGE DOORS

400mmx100mm DEEP POURED CONC. FTG. (TYPICAL) FOOTING TO BEAR ON UNDISTURBED SOIL

GRAVEL STOP FLASHING

SLOPE FOR DRAINAGE

FOR FLAT ROOF STRUCTURE SEE TABLES ON SHEET G02d

FASCIA BOARD & VENTED SOFFIT FINISH AS PER ELEVATIONS

15.9mm TYPE 'X' DRYWALL IF LESS THAN 600mm TO THE PROPERTY LINE

BRICK VENEER WALL
90mm FACE BRICK
25mm AIR SPACE
0.76mm THICK x22mm WIDE GALVANIZED METAL TIES @ 400mm O.C. HORIZONTAL, 600mm O.C. VERTICAL
INSTALLED WITH GALVANIZED SPIRAL NAILS OR SCREWS
SHEATHING PAPER W/ LAYERS TO OVERLAP EACH OTHER
EXTERIOR TYPE SHEATHING
38x89 WOOD STUDS @ 406 O.C.
DOUBLE PLATE @ TOP
SOLE PLATE @ BOTTOM

1 WALL SECTION

LMCBO
STANDARD
DETAILS

TITLE

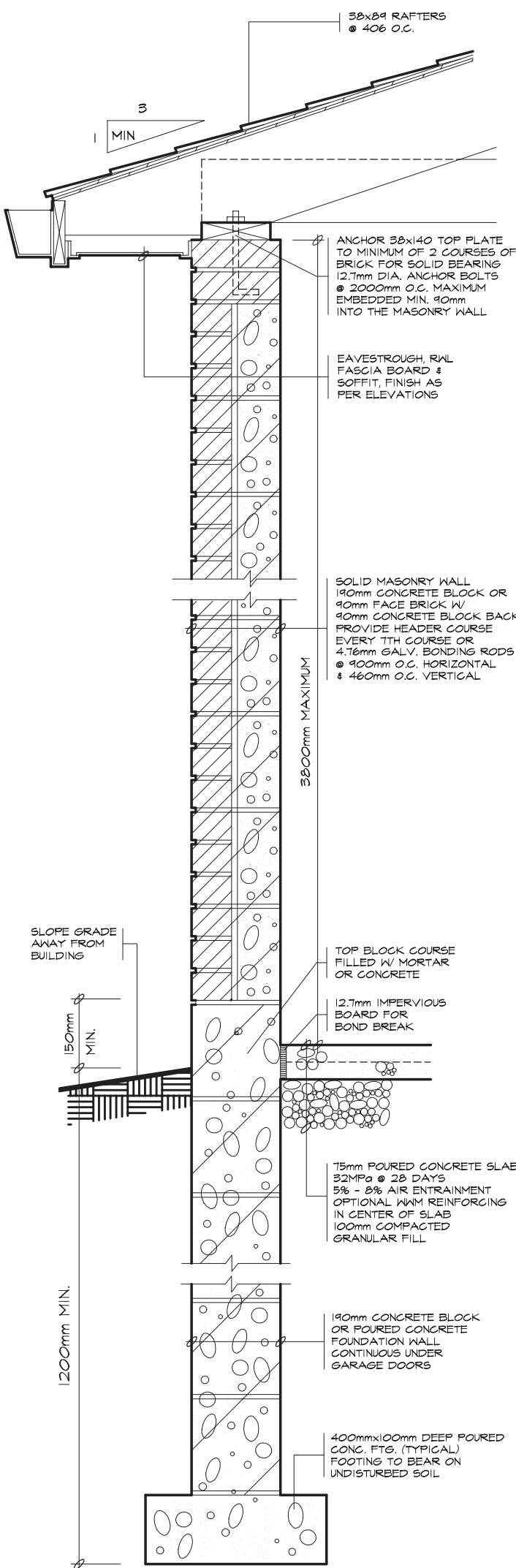
DETACHED GARAGE BRICK VENEER DETAILS

DWG. NO.

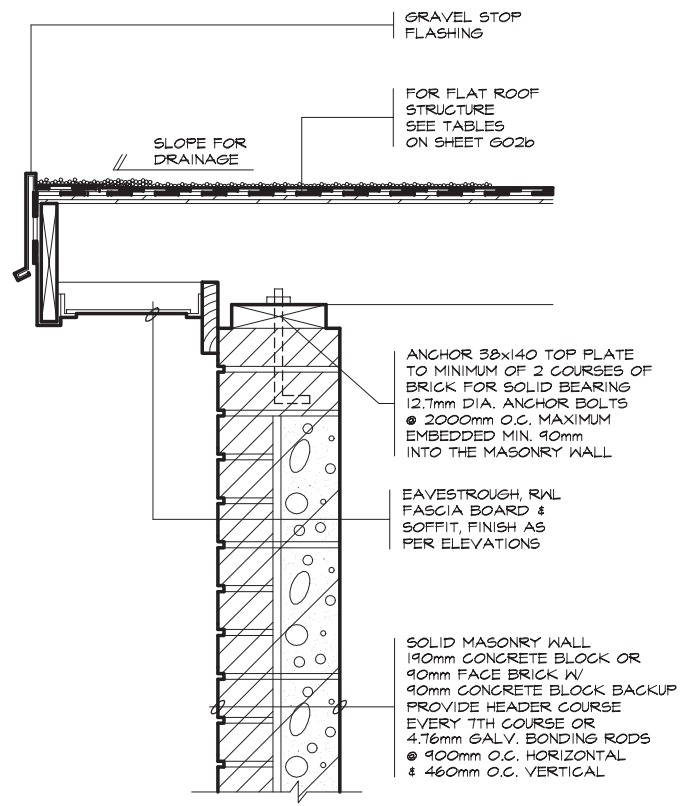
G02d

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2012



1 WALL SECTION



2 FLAT ROOF

**LMCBO
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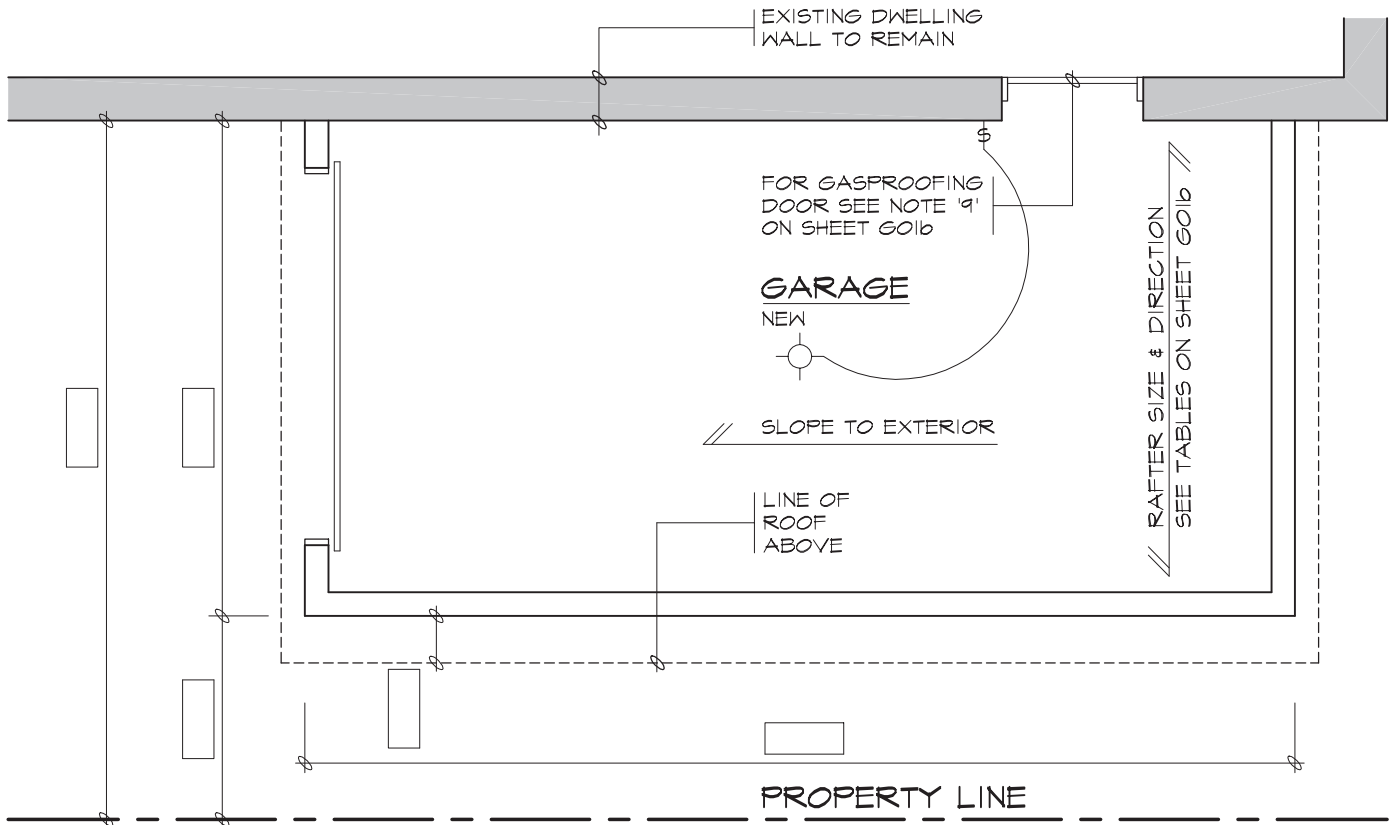
TITLE
DETACHED GARAGE SOLID MASONRY DETAILS

DWG. NO.

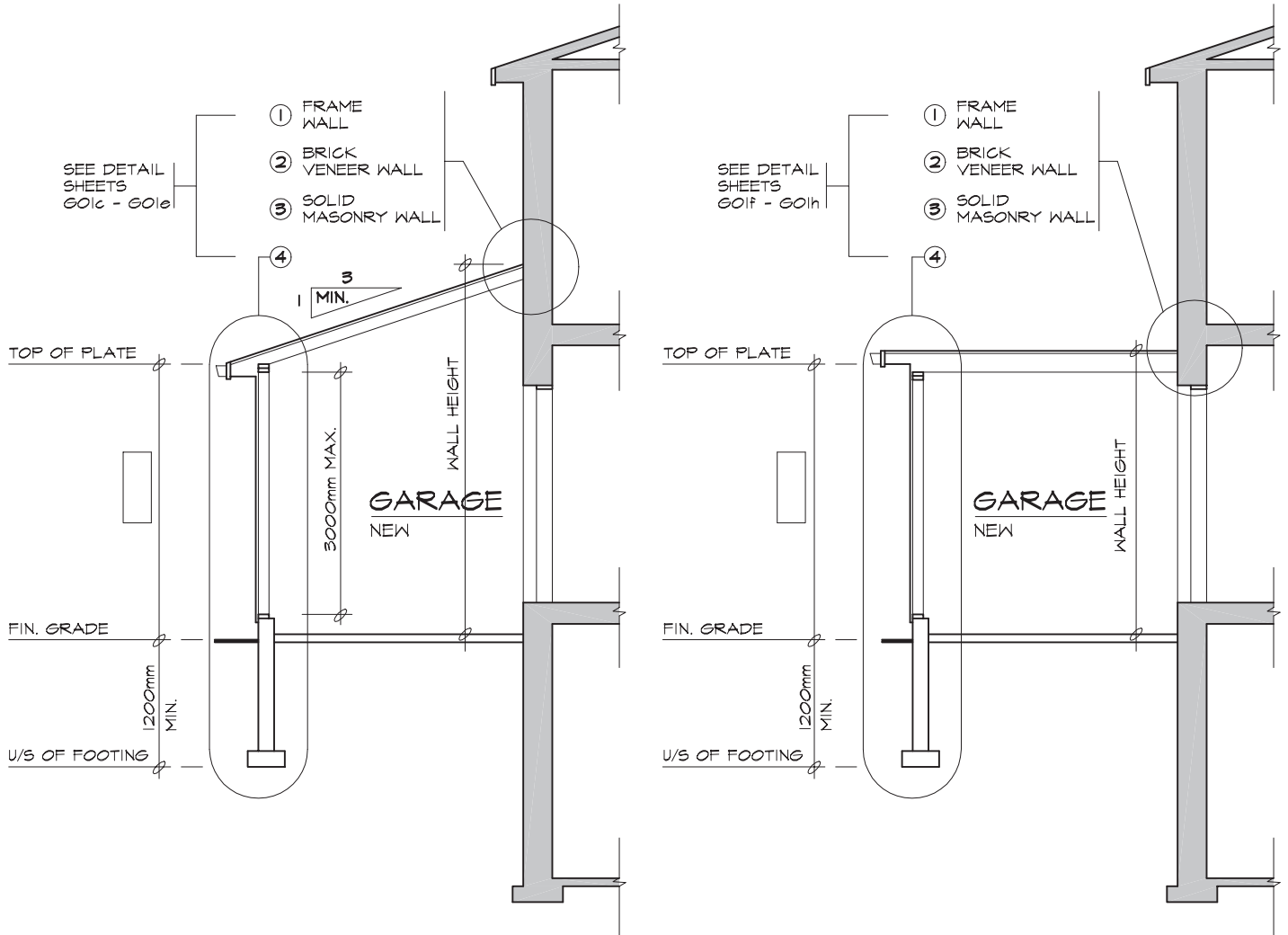
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G02e

2012



GARAGE PLAN (PROVIDE DIMENSIONS IN BOXES)



SLOPING ROOF

FLAT ROOF

GARAGE SECTIONS

**LMCBO
STANDARD
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TITLE
ATTACHED GARAGE PLAN & SECTIONS

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GO1a

2012

ROOF RAFTERS

(WHERE NO CEILING IS INSTALLED)

MAXIMUM CLEAR SPAN (M)						
RAFTER SIZE	ROOF SNOW LOAD 1.0kPa			ROOF SNOW LOAD 1.5kPa		
	RAFTER SPACING (mm) O.C.			RAFTER SPACING (mm) O.C.		
	305	406	610	305	406	610
38x89	3.11	2.83	2.47	2.72	2.47	2.16
38x140	4.90	4.45	3.89	4.28	3.89	3.40
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38x235	8.22	7.47	6.38	7.18	6.52	5.39

ROOF JOISTS

(WHERE CEILING IS INSTALLED)

MAXIMUM CLEAR SPAN (M)						
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38x184	5.11	4.64	4.05	4.46	4.05	3.54
38x235	6.52	5.93	5.18	5.70	5.18	4.52

LINTELS

(MAXIMUM 1.5 kPa ROOF SNOW LOAD)

DOOR WIDTH	LINTELS FOR WOOD FRAMING		LINTELS FOR BRICK VENEER 90mm		LINTELS FOR SOLID MASONRY 200mm	
	NOT SUPPORTING THE ROOF	SUPPORTING THE ROOF	NOT SUPPORTING THE ROOF	SUPPORTING THE ROOF	NOT SUPPORTING THE ROOF	SUPPORTING THE ROOF
UP TO 3000mm	2/38x184	2/38x286	2/38x184 + ANGLE 125x90x8	2/38x286 + ANGLE 125x90x8	2 ANGLES 150x100x10	W150x22 + PLATE 200x10
UP TO 4900mm	2/38x286	4/38x286 OR 2-45x300 1.9E LVL	W200x27 + PLATE 200x10	W200x27 + PLATE 200x10	MUST BE DESIGNED	MUST BE DESIGNED

GENERAL NOTES

- ALL LUMBER TO BE NO. 1&2 SPRUCE OR BETTER
- ALL PLYWOOD SHALL BE STAMPED EXTERIOR GRADE
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL
- IF GARAGE WALL IS LESS THAN 1200mm TO THE PROPERTY LINE PROVIDE 15.9mm TYPE 'X' DRYWALL INTERIOR SHEATHING. NO WINDOWS ARE PERMITTED.
- IF GARAGE WALL IS LESS THAN 600mm TO THE PROPERTY LINE NON-COMBUSTIBLE CLADDING OR VINYL SIDING W/ GYPSUM SHEATHING IS REQUIRED.
- GARAGE WALLS ADJOINING DWELLING MUST BE COMPLETELY SEALED TO PREVENT ANY INFILTRATION OF GASES INTO THE DWELLING.
- CAULK ALL PENETRATIONS SUCH AS HOSE BIB & JOINTS BETWEEN GYPSUM BD. & OTHER SURFACES W/ ACOUSTICAL SEALANT.
- WHERE ATTACHED GARAGE IS ADJACENT TO AN ATTIC SPACE, CARRY GYPSUM BOARD UP TO ROOF SHEATHING & SEAL W/ FLEXIBLE CAULKING.
- DOORS BETWEEN THE GARAGE & DWELLING MUST BE EXTERIOR TYPE, TIGHT FITTING, WEATHERSTRIPPED & PROVIDED W/ A SELF CLOSING DEVICE & A DEADBOLT LOCK. DOOR MUST NOT OPEN DIRECTLY INTO A BEDROOM.
- GARAGE SLAB SHALL BE SLOPED TO DRAIN TO THE OUTSIDE. CONCRETE SHALL BE MIN. 32MPa W/ 5%-8% AIR ENTRAINMENT.
- ALL ROOF SHEATHING TO BE 9.5mm PLYWOOD OR 11mm OSB, FOR ROOF RAFTERS @ 300mm OR 400mm O.C. USE "H" CLIPS FOR ROOF RAFTERS @ 600mm O.C..
- STEPPED FOOTINGS, IF REQUIRED, SHALL HAVE A MAXIMUM RISE OF 600mm & A MINIMUM RUN OF 600mm.
- PROVIDE A LIGHT FIXTURE IN THE GARAGE.
- STEEL BEAMS TO BE SUPPORTED BY SOLID MASONRY (190mm BEARING ON MASONRY OR 73mm DIA. STEEL COLUMN).
- LINTELS AND BEAMS TO BE DESIGNED BY A QUALIFIED PERSON FOR SPANS GREATER THAN 4900mm

**LMCBO
STANDARD
DETAILS**

TITLE

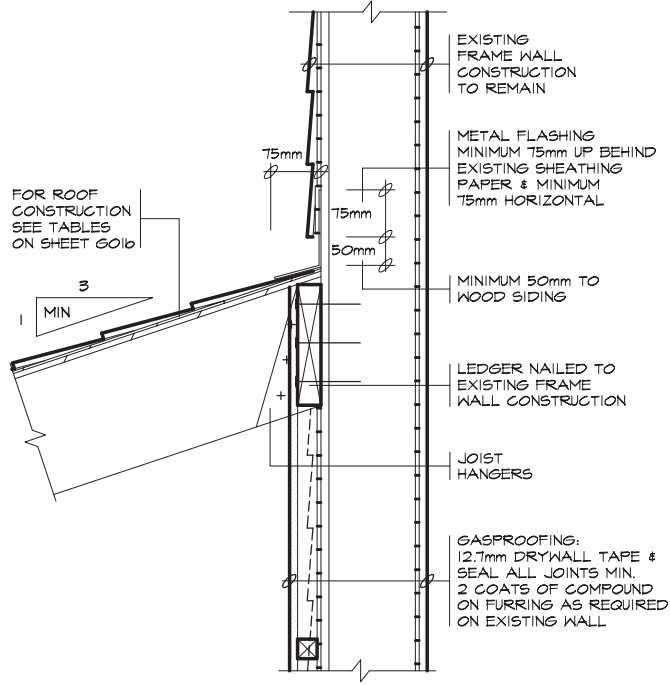
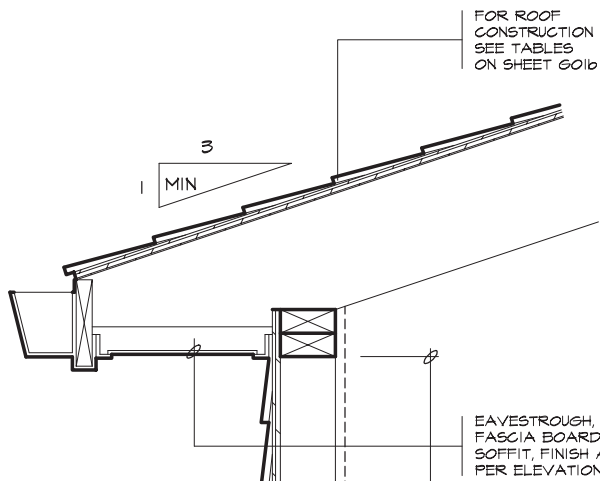
ATTACHED GARAGE TABLES & NOTES

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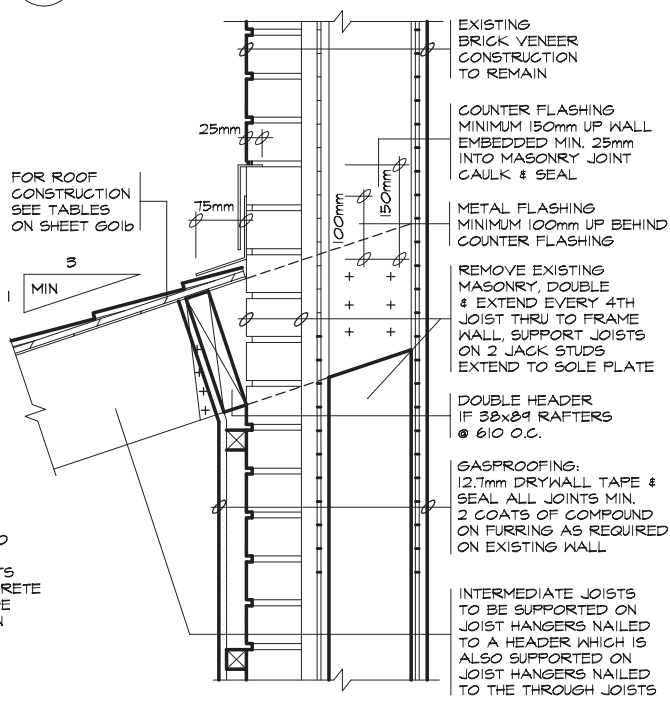
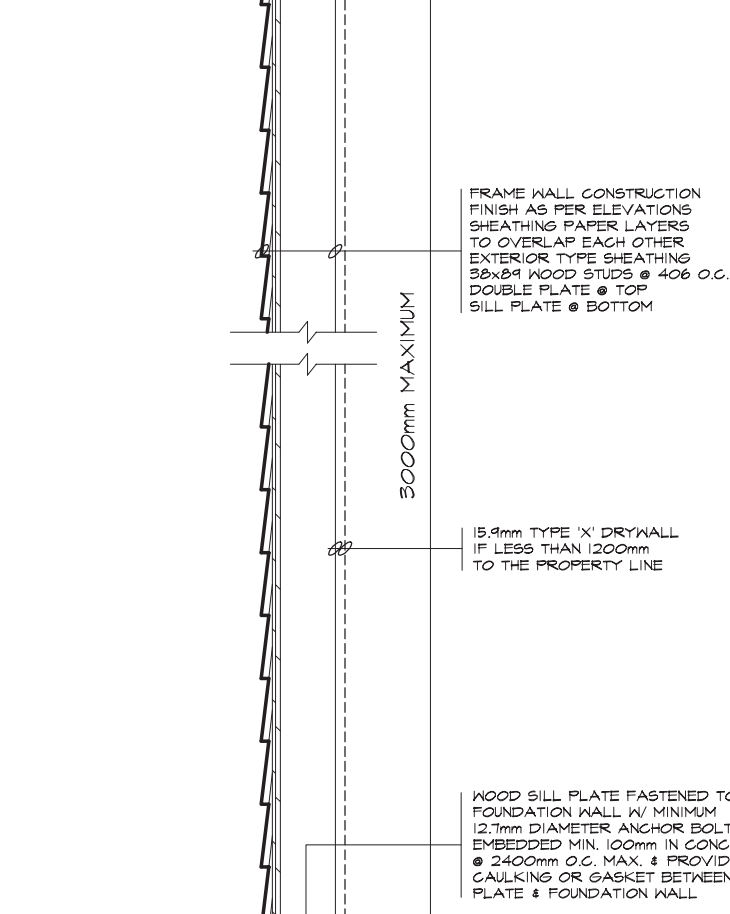
DWG. NO.

GO1b

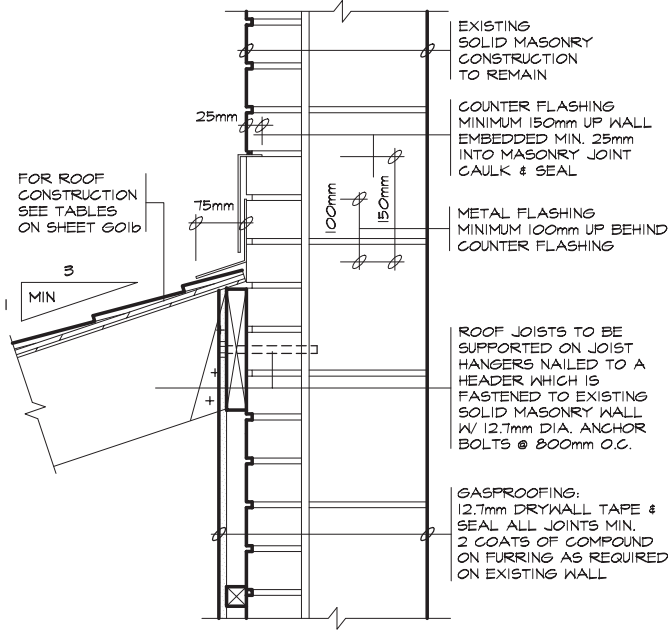
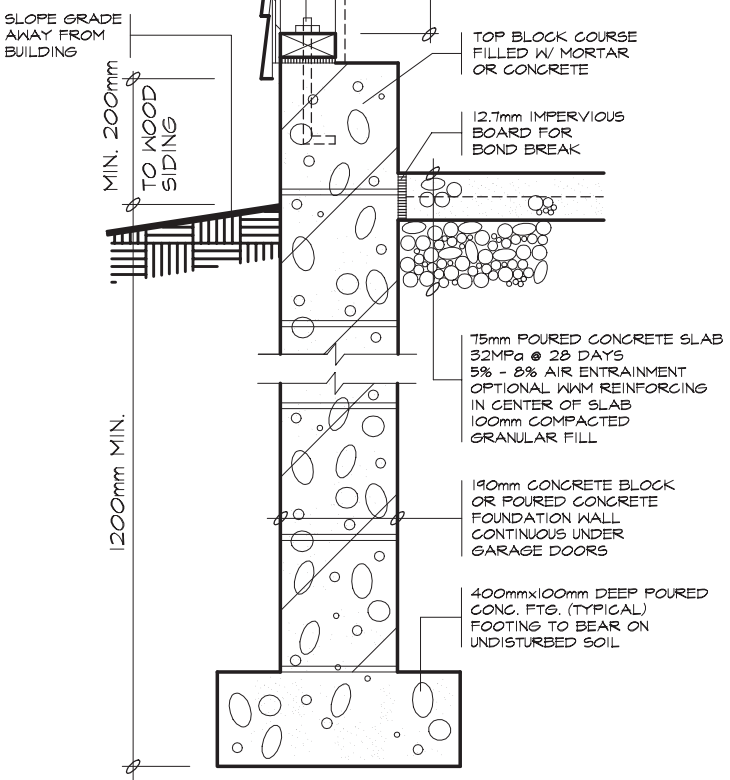
2012



1 FRAME WALL



2 BRICK VENEER WALL



3 SOLID MASONRY WALL

4 FRAME WALL SECTION

NOTE: THESE DETAILS ARE NOT TO BE USED FOR ADDITION OF LIVING SPACES

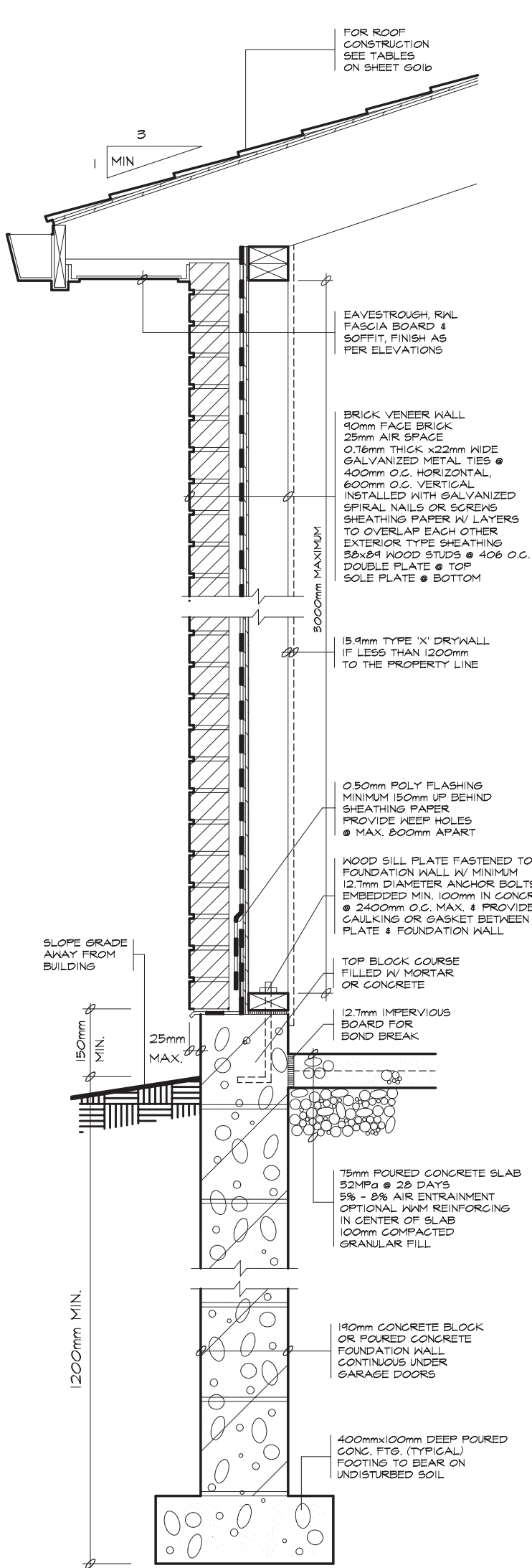
**LMCBO
STANDARD
DETAILS**

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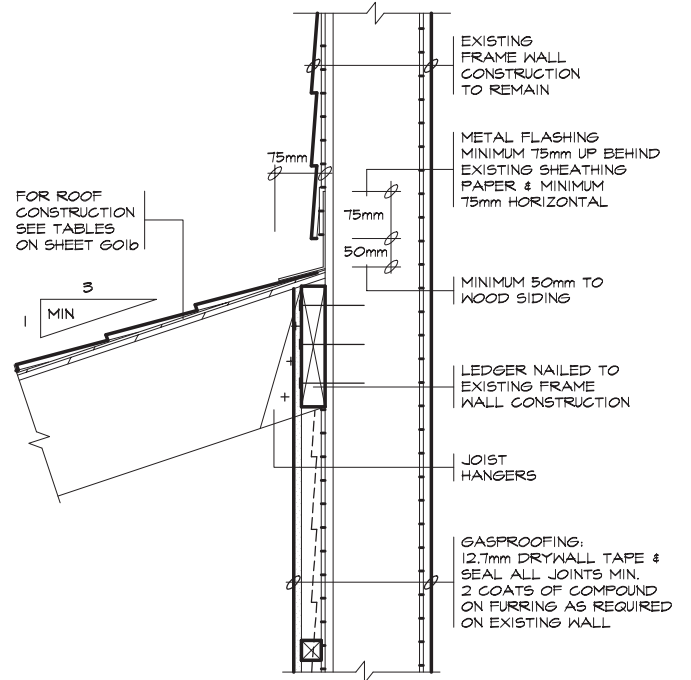
DWG. NO.

NOTE: UNDER THE BUILDING CODE ACT, THE LOCAL MUNICIPALITY IS THE AUTHORITY HAVING JURISDICTION FOR ENFORCING THE ACT AND IT'S REGULATIONS. IT IS THE RESPONSIBILITY OF THE OWNER/DESIGNER TO ENSURE THAT ALL DESIGNS SUBMITTED FOR A PERMIT ARE IN ACCORDANCE WITH THE BUILDING CODE ACT, BUILDING CODE AND ANY OTHER APPLICABLE LAW.

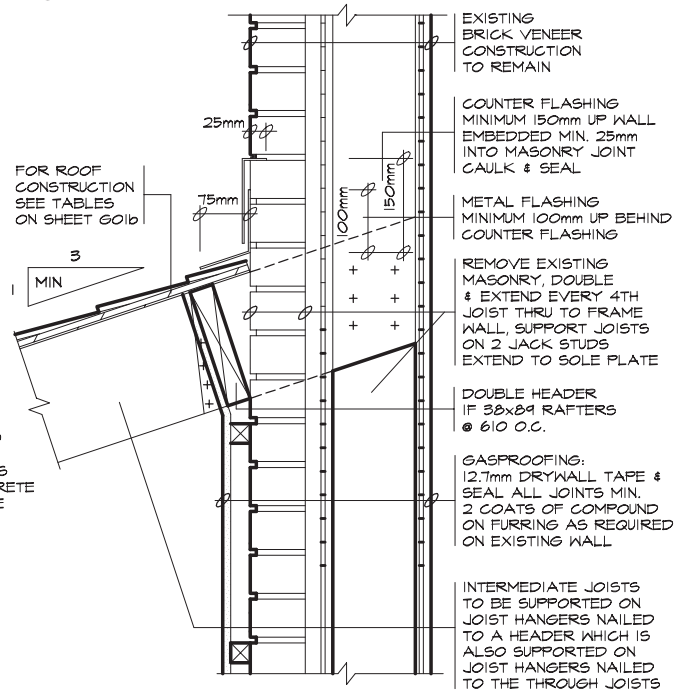
G01c
2012



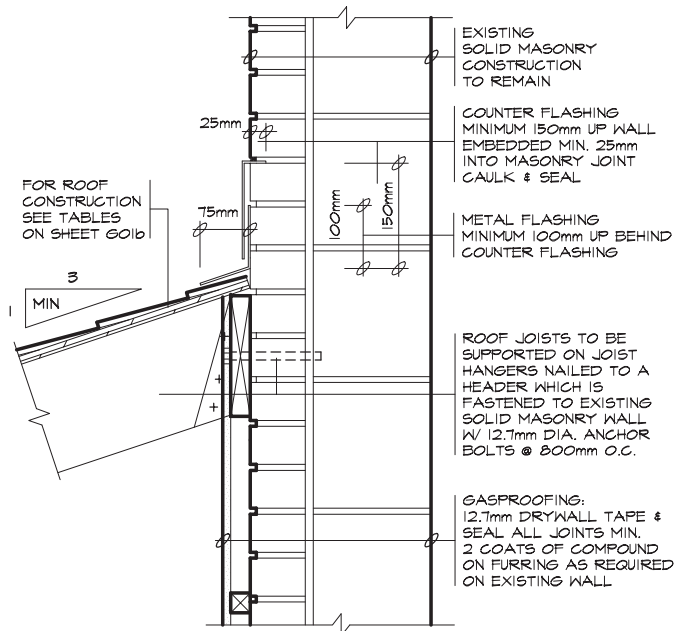
4 BRICK VENEER SECTION



1 FRAME WALL



2 BRICK VENEER WALL



3 SOLID MASONRY WALL

NOTE: THESE DETAILS ARE NOT TO BE USED FOR ADDITION OF LIVING SPACES

LMCBO
STANDARD
DETAILS

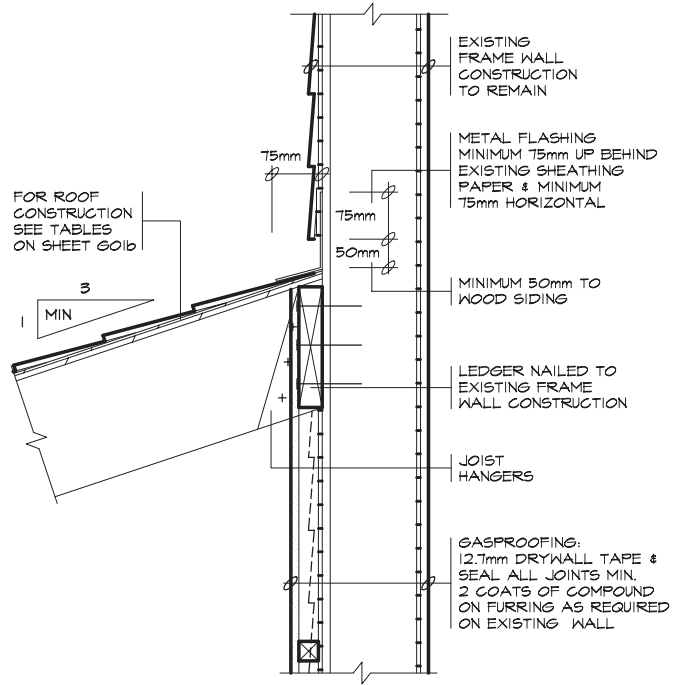
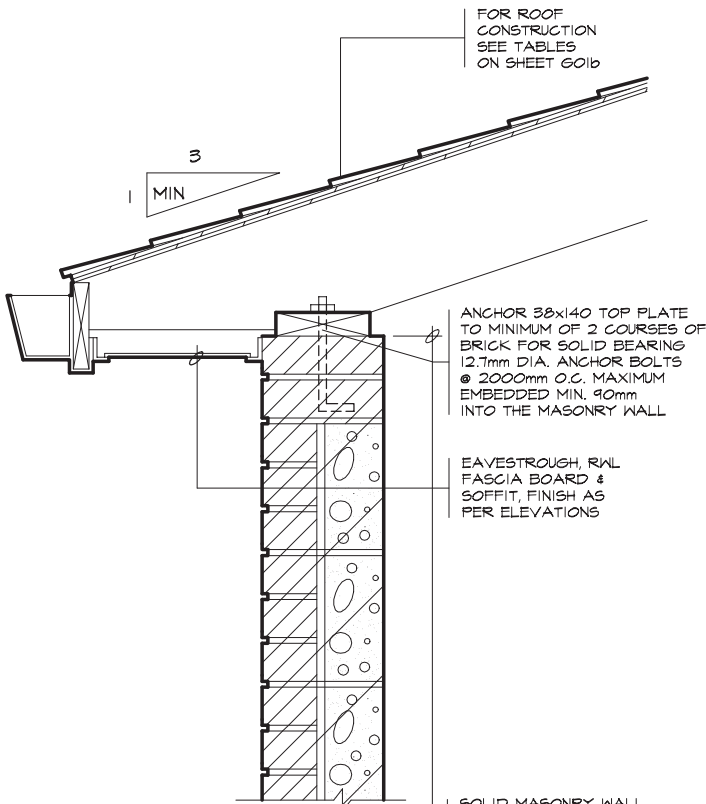
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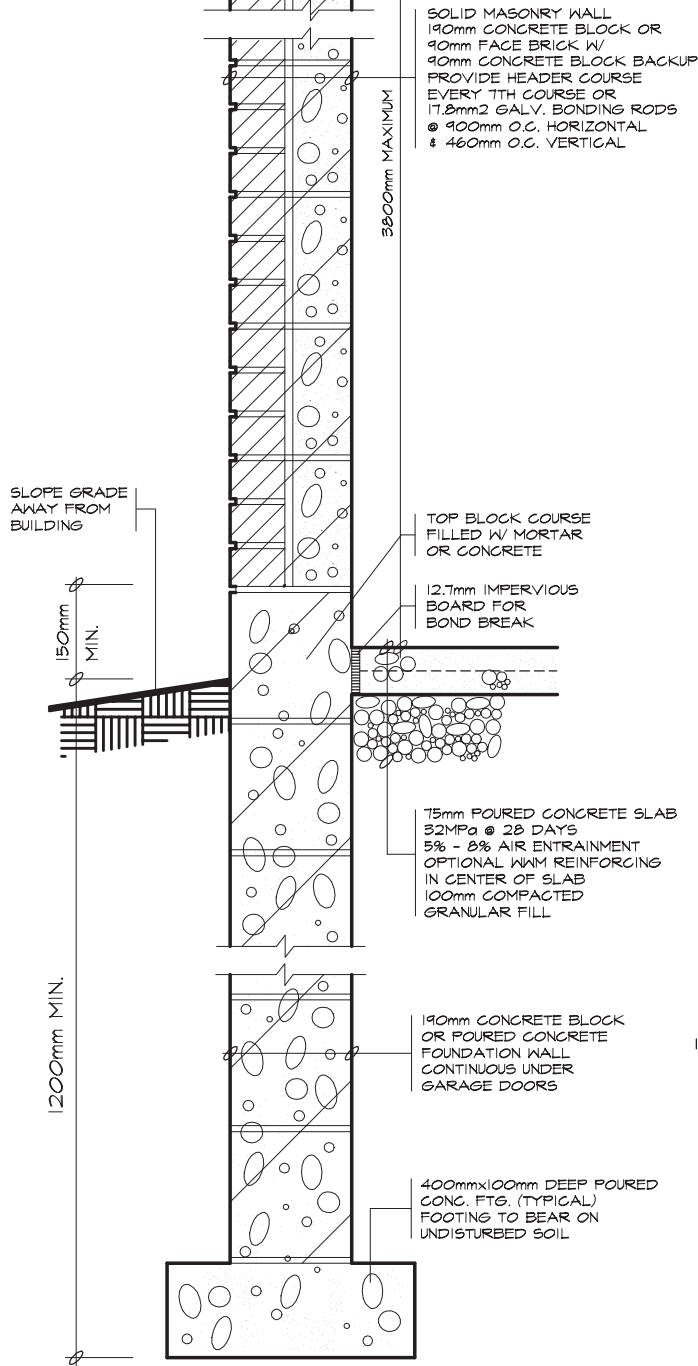
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Gold

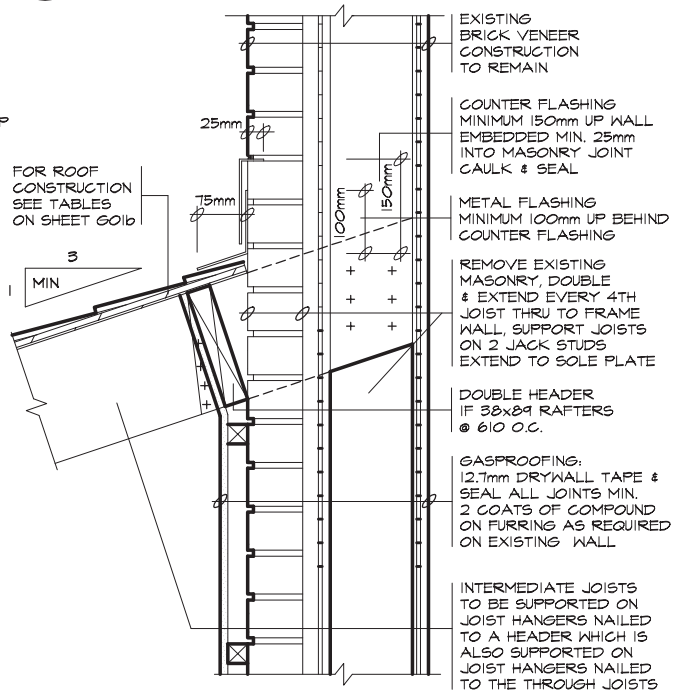
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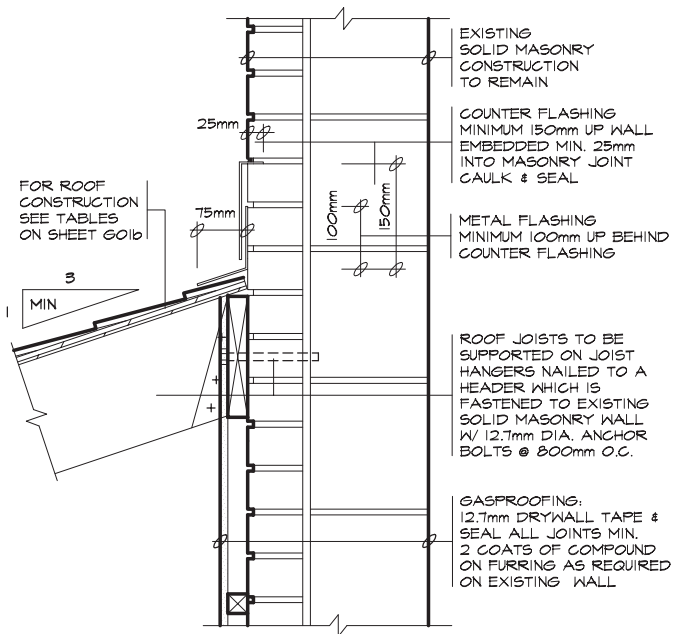
1 FRAME WALL



4 SOLID MASONRY SECTION



2 BRICK VENEER WALL



3 SOLID MASONRY WALL

NOTE: THESE DETAILS ARE NOT TO BE USED FOR ADDITION OF LIVING SPACES

**LMCBO
STANDARD
DETAILS**

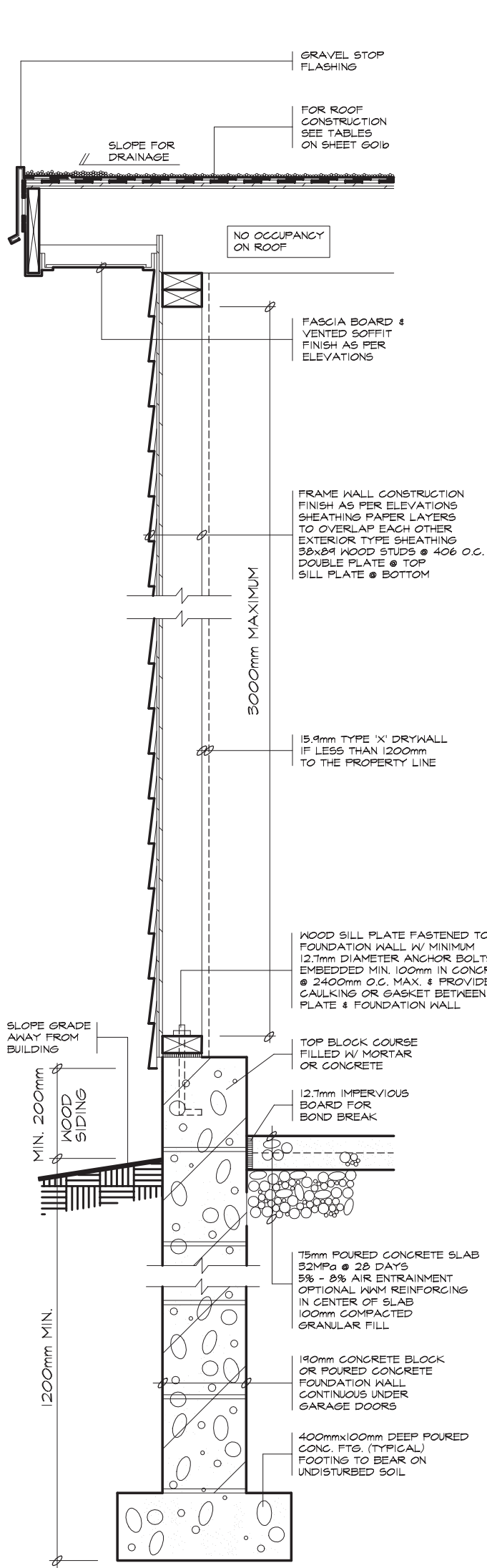
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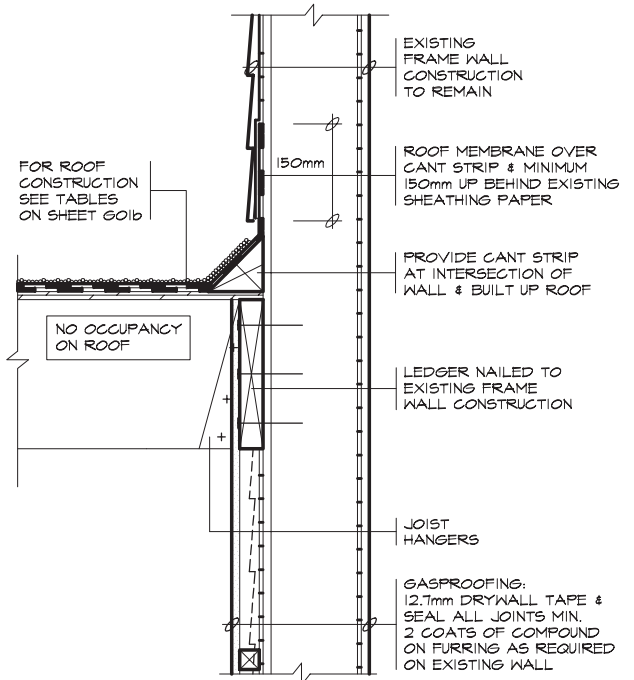
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Gole

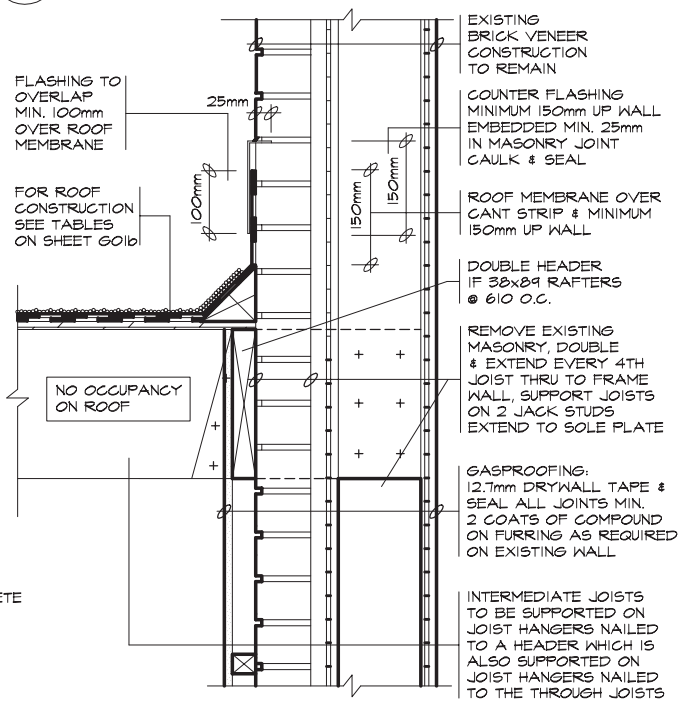
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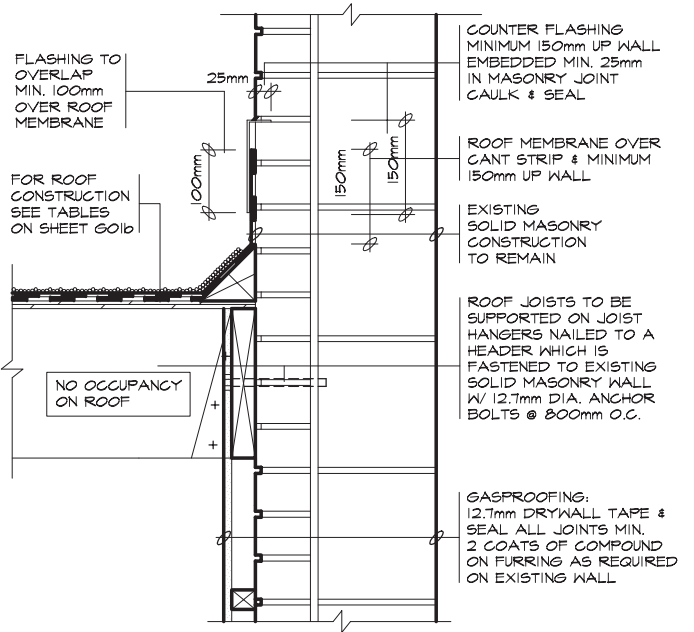
4 WALL SECTION



1 FRAME WALL



2 BRICK VENEER WALL



3 SOLID MASONRY WALL

NOTE: THESE DETAILS ARE NOT TO BE USED FOR ADDITION OF LIVING SPACES

LMCBO
STANDARD
DETAILS

TITLE

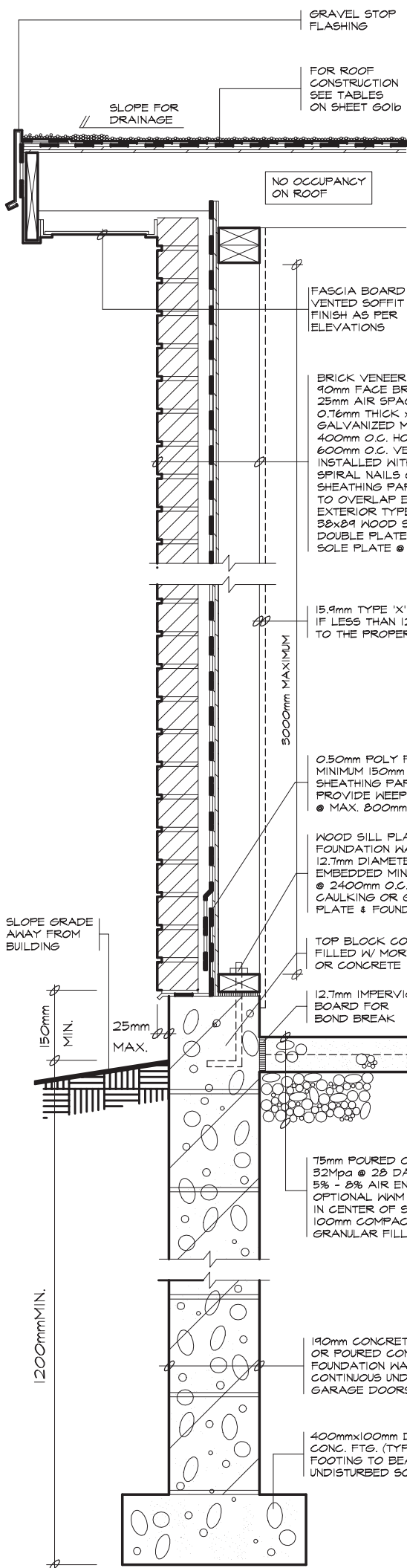
ATTACHED GARAGE FLAT ROOF & FRAME WALL DETAILS

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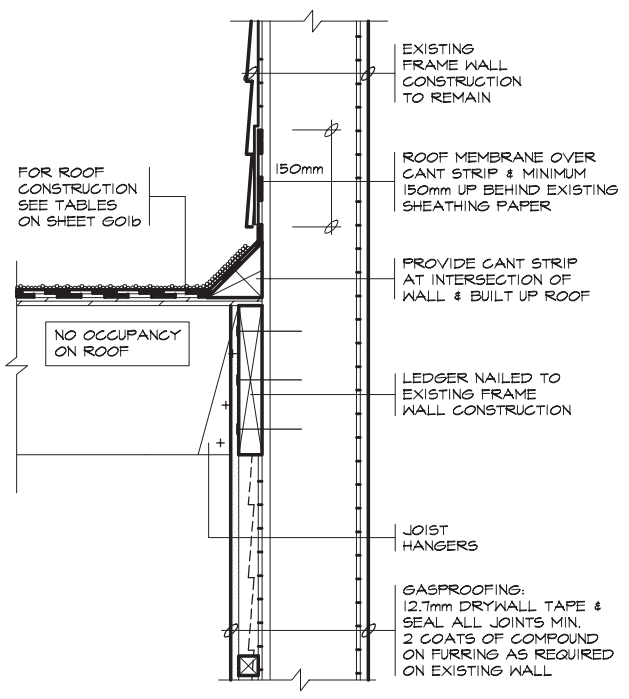
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GOLF

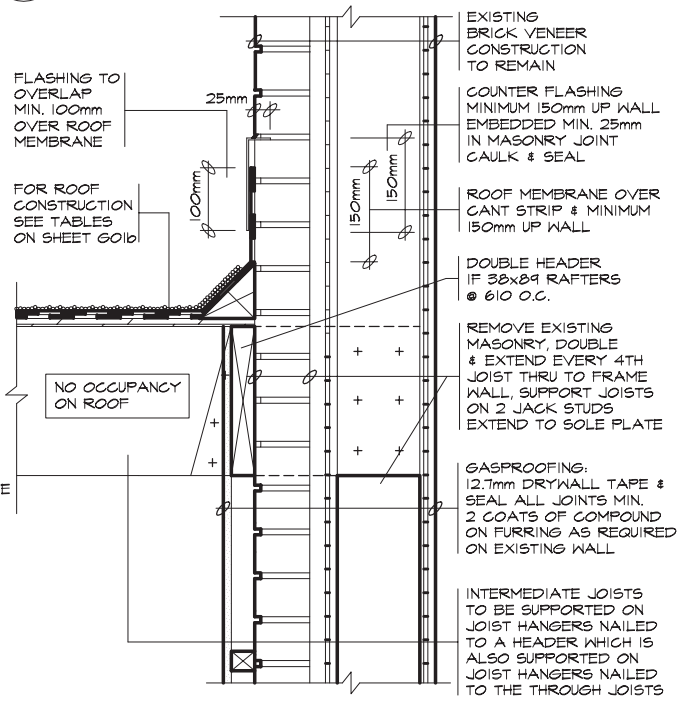
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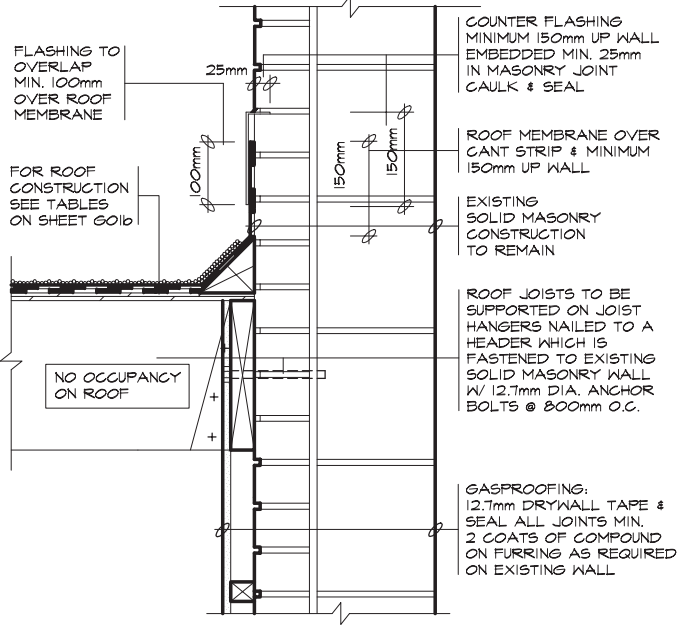
4 WALL SECTION



1 FRAME WALL



2 BRICK VENEER WALL



3 SOLID MASONRY WALL

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**LMCBO
STANDARD
DETAILS**

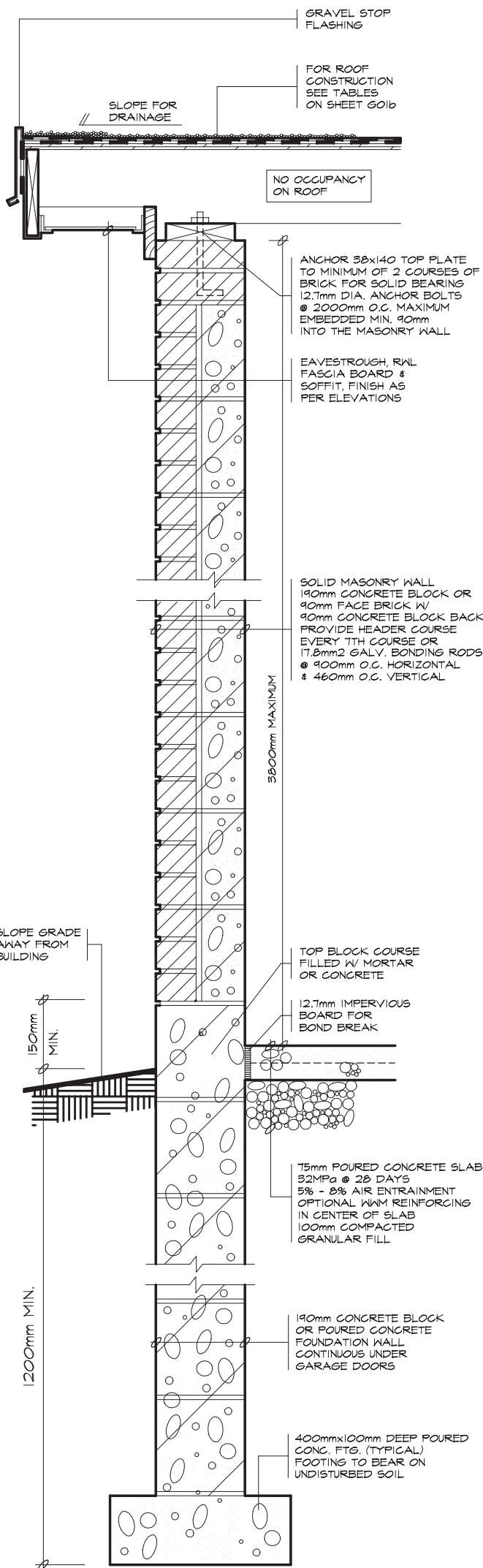
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ATTACHED GARAGE FLAT ROOF & BRICK VENEER DETAILS

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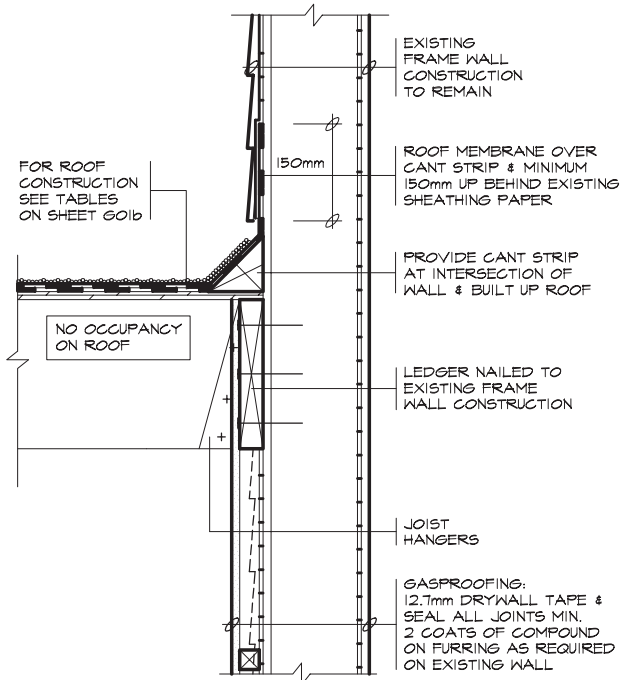
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G01g

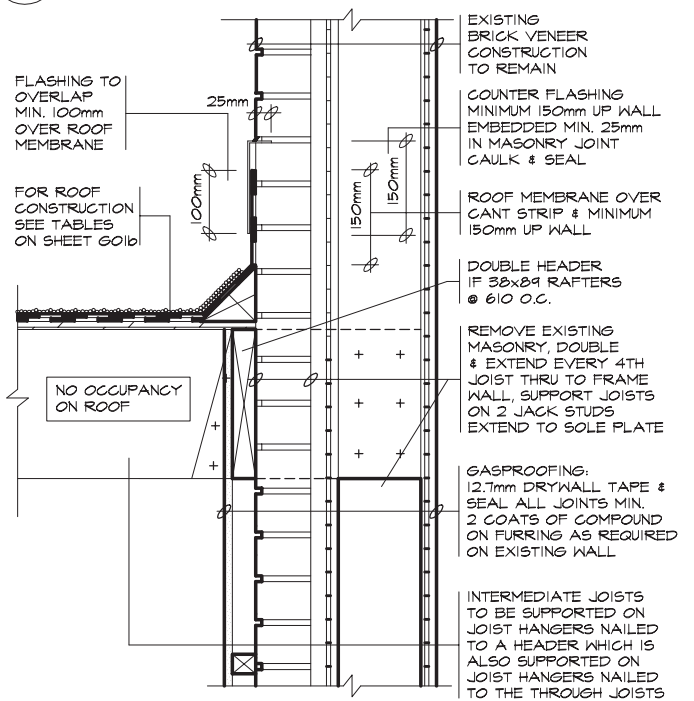
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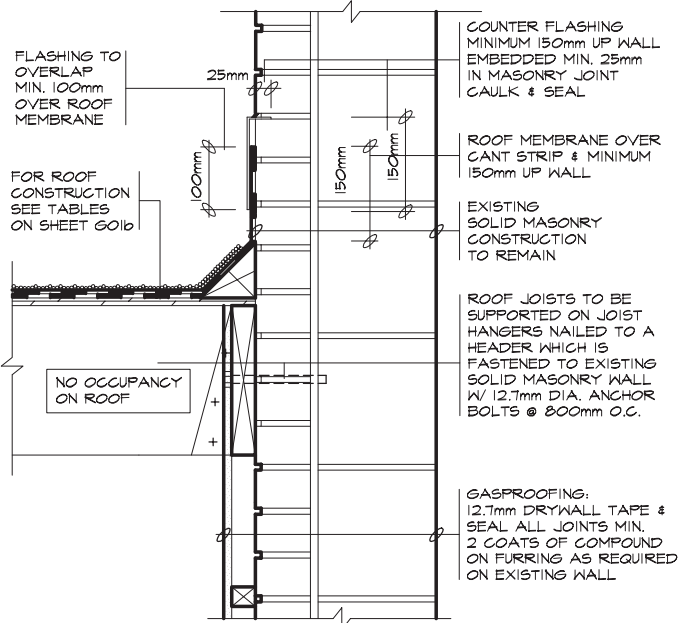
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1 FRAME WALL



2 BRICK VENEER WALL



3 SOLID MASONRY WALL

NOTE: THESE DETAILS ARE NOT TO BE USED FOR ADDITION OF LIVING SPACES

**LMCBO
STANDARD
DETAILS**

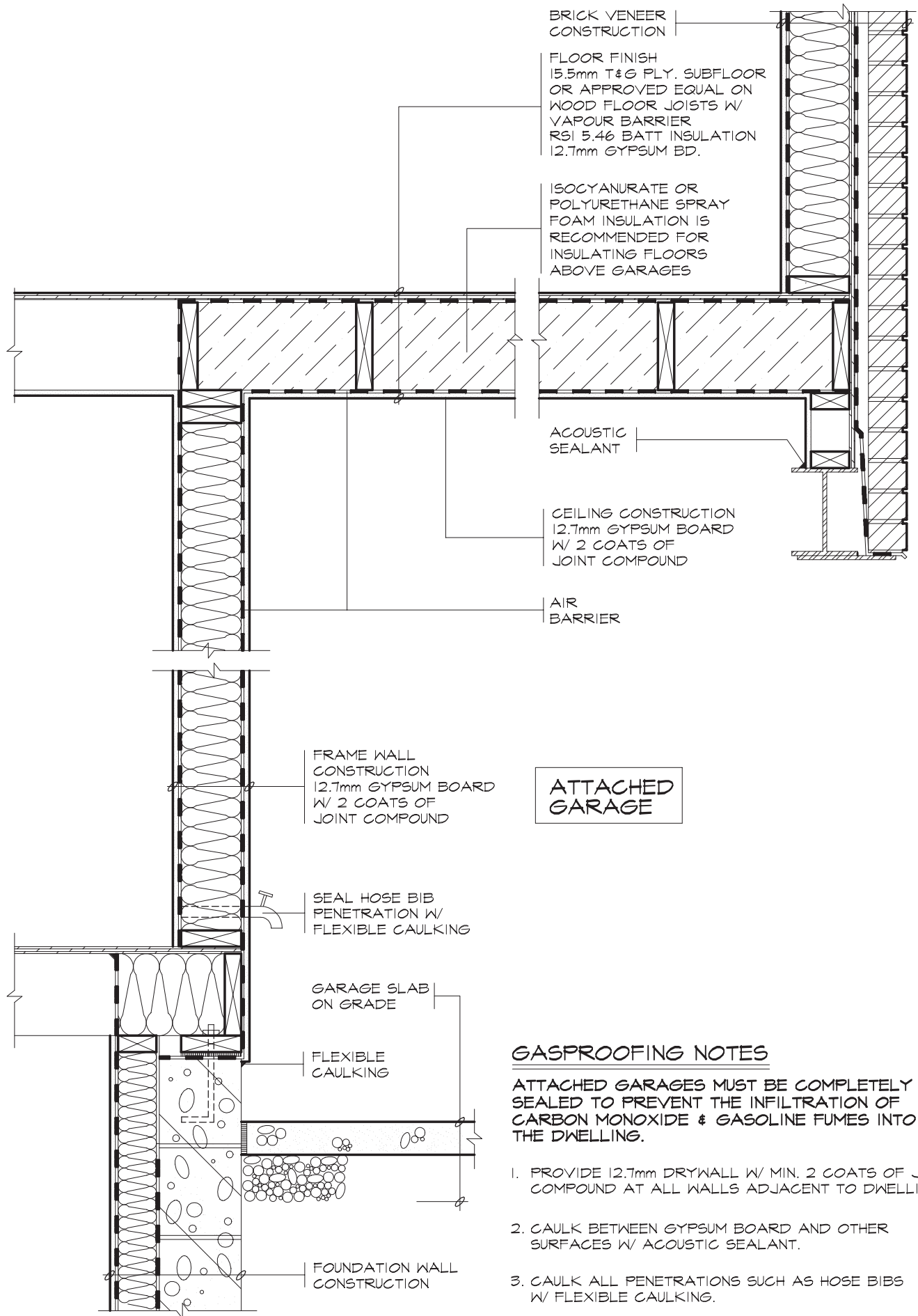
TITLE
ATTACHED GARAGE FLAT ROOF & SOLID MASONRY DETAILS

DWG. NO.

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GO1h

2012



GASPROOFING NOTES

ATTACHED GARAGES MUST BE COMPLETELY SEALED TO PREVENT THE INFILTRATION OF CARBON MONOXIDE & GASOLINE FUMES INTO THE DWELLING.

1. PROVIDE 12.7mm DRYWALL W/ MIN. 2 COATS OF JOINT COMPOUND AT ALL WALLS ADJACENT TO DWELLING.
2. CAULK BETWEEN GYPSUM BOARD AND OTHER SURFACES W/ ACOUSTIC SEALANT.
3. CAULK ALL PENETRATIONS SUCH AS HOSE BIBS W/ FLEXIBLE CAULKING.
4. DOORS BETWEEN GARAGE & DWELLING SHALL BE TIGHT FITTING & WEATHERSTRIPPED & PROVIDED W/ A SELF CLOSING DEVICE. DOOR MUST NOT OPEN DIRECTLY INTO A ROOM INTENDED FOR SLEEPING.
5. GARAGE SLAB SHALL BE SLOPED TO DRAIN OUTDOORS
6. WHERE AN ATTACHED GARAGE IS ADJACENT TO AN ATTIC SPACE CARRY DRYWALL UP TO ROOF SHEATHING & CAULK W/ FLEXIBLE CAULKING.
7. UNIT MASONRY WALLS FORMING THE SEPARATION BETWEEN THE DWELLING & ATTACHED GARAGE SHALL BE PROVIDED W/ 2 COATS OF A SEALER OR COVERED W/ PLASTER OR GYPSUM BOARD ON THE GARAGE SIDE.

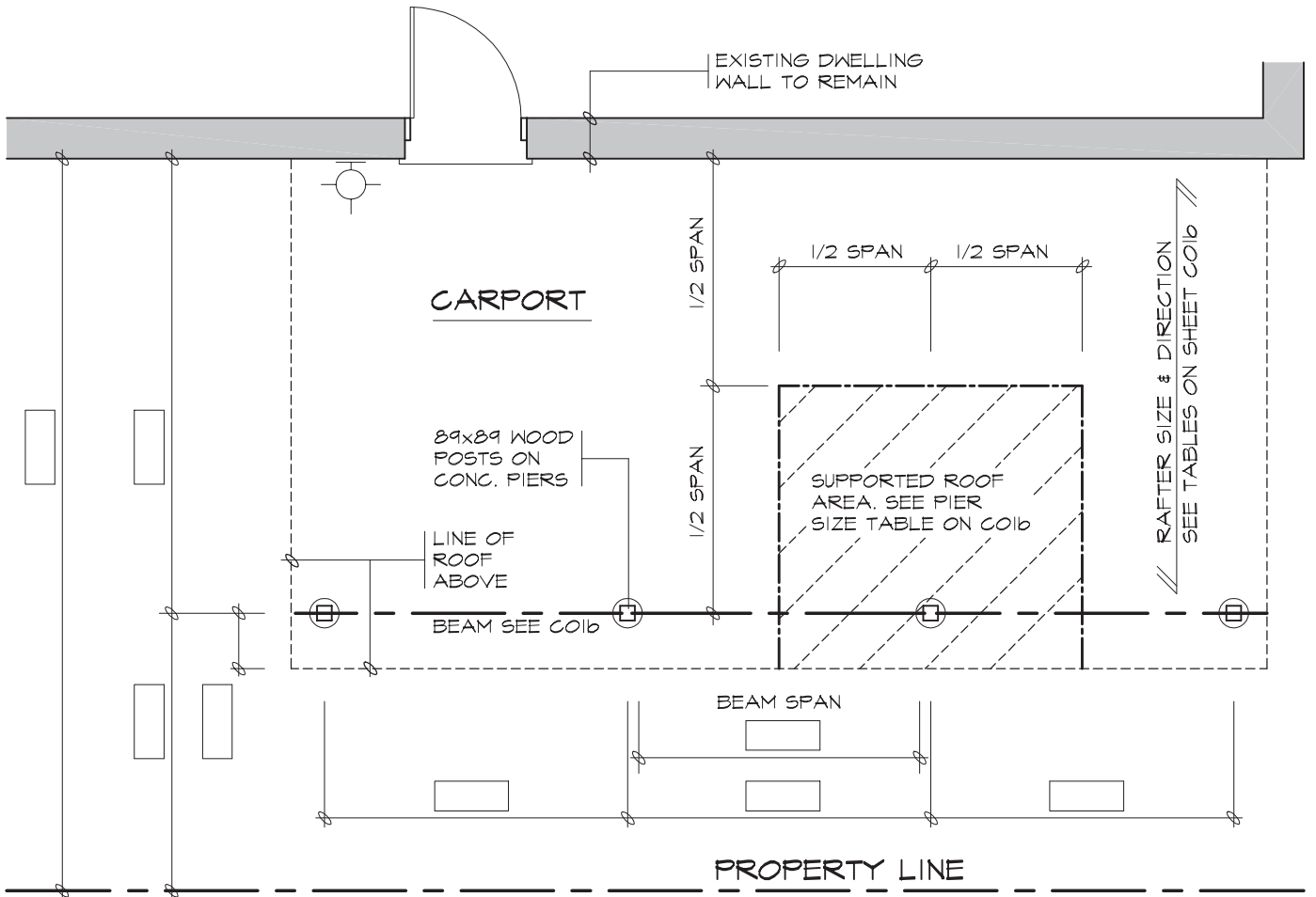
**LMCBO
STANDARD
DETAILS**

TITLE
ATTACHED GARAGE GASPROOFING & INSULATION DETAILS

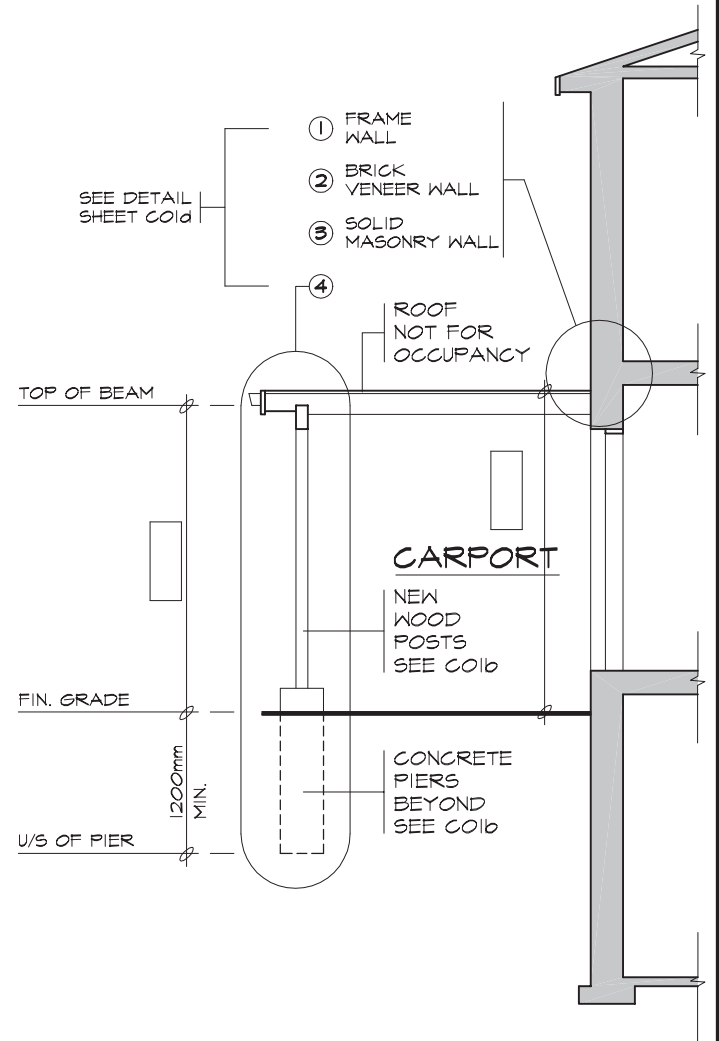
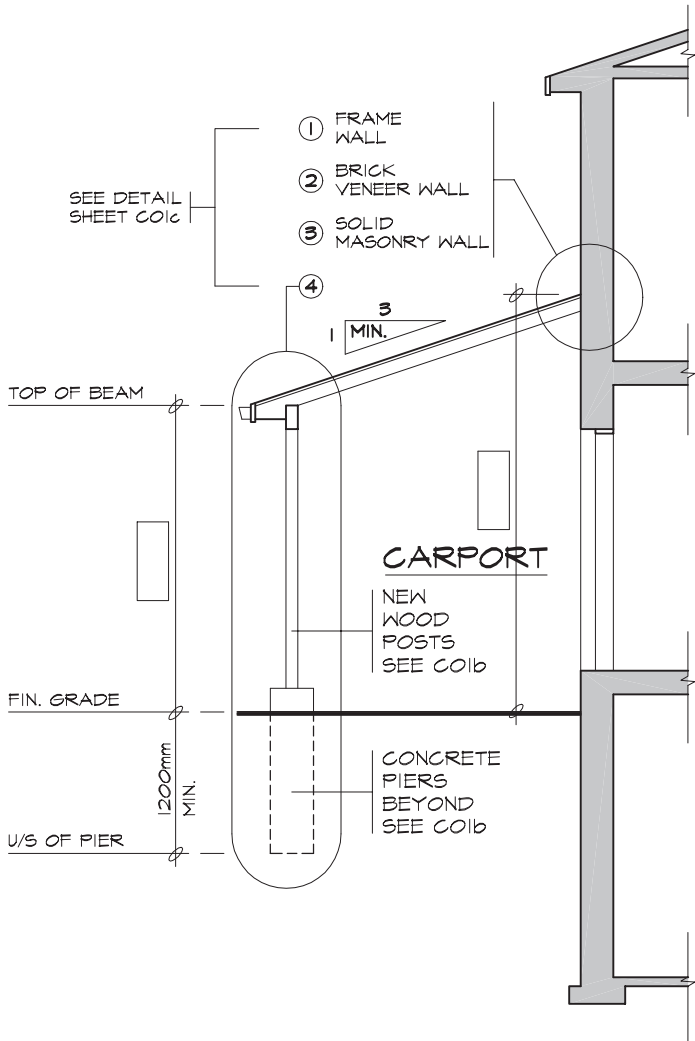
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GOLI
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CARPORT PLAN (PROVIDE DIMENSIONS IN BOXES)
SEE CO1b FOR STRUCTURAL SIZES



SLOPING ROOF

FLAT ROOF

CARPORT SECTIONS

**LMCBO
STANDARD
DETAILS**

TITLE
ATTACHED CARPORT SLOPING OR FLAT ROOF PLAN & SECTIONS

DWG. NO.

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COLA

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ROOF RAFTERS

(WHERE NO CEILING IS INSTALLED)

MAXIMUM CLEAR SPAN (M)						
RAFTER SIZE	ROOF SNOW LOAD 1.0kPa			ROOF SNOW LOAD 1.5kPa		
	RAFTER SPACING (mm) O.C.			RAFTER SPACING (mm) O.C.		
	305	406	610	305	406	610
38x89	3.11	2.83	2.47	2.72	2.47	2.16
38x140	4.90	4.45	3.89	4.28	3.89	3.40
38x184	6.44	5.85	5.11	5.62	5.11	4.41
38x235	8.22	7.47	6.38	7.18	6.52	5.39

ROOF JOISTS

(WHERE CEILING IS INSTALLED)

MAXIMUM CLEAR SPAN (M)						
JOIST SIZE	ROOF SNOW LOAD 1.0kPa			ROOF SNOW LOAD 1.5kPa		
	JOIST SPACING (mm) O.C.			JOIST SPACING (mm) O.C.		
	305	406	610	305	406	610
38x89	2.47	2.24	1.96	2.16	1.96	1.71
38x140	3.89	3.53	3.08	3.40	3.08	2.69
38x184	5.11	4.64	4.05	4.46	4.05	3.54
38x235	6.52	5.93	5.18	5.70	5.18	4.52

ROOFING

ROOF FRAMING (mm) O.C.	ROOF SHEATHING
RAFTERS @ 305	7.5mm PLYWOOD W/ H-CLIPS OR 17mm LUMBER
RAFTERS @ 406	
RAFTERS @ 610	9.5mm PLYWOOD W/ 'H'-CLIPS OR 19mm LUMBER

BEAMS

MAXIMUM CLEAR SPAN (M)		MINIMUM BEAM SIZE
ROOF SNOW LOAD		
1.0kPa	1.5kPa	
2.35	2.02	2 - 38x184
2.88	2.47	2 - 38x235
3.34	2.87	2 - 38x286

PIERS

PIER SIZE (mm)	SUPPORTED ROOF AREA (M2)					
	ROOF SNOW LOAD 1.0kPa			ROOF SNOW LOAD 1.5kPa		
	ALLOWABLE BEARING CAPACITY OF SOIL			ALLOWABLE BEARING CAPACITY OF SOIL		
	75kPa	120kPa	190kPa	75kPa	120kPa	190kPa
200 DIA.	1.95	3.25	5.48	1.39	2.32	3.62
250 DIA.	3.07	5.11	8.08	2.14	3.62	5.76
300 DIA.	4.37	7.34	11.71	3.16	5.20	8.36
350 DIA.	5.95	9.94	15.87	4.27	7.06	11.33
400 DIA.	7.62	13.01	20.72	5.48	9.29	14.77

POSTS

POST SIZE (mm) (SEE NOTE 5)	MAX. HEIGHT (M)	SUPPORTED ROOF AREA (M2)				
		ROOF SNOW LOAD (kPa)				
		1.0	1.5	2.0	2.5	3.0
89x89	1.0	17.19	12.98	10.43	8.71	7.48
	1.5	9.39	7.09	5.69	4.76	4.09
	2.0	4.98	3.76	3.02	2.53	2.17
140x140	2.0	21.65	16.35	13.13	10.98	9.43
	2.5	14.77	11.15	8.96	7.48	6.43
	3.0	10.06	7.60	6.10	5.10	4.38
	3.5	6.98	5.27	4.23	3.54	3.04

GENERAL NOTES

- ALL LUMBER TO BE NO. 1&2 SPF OR BETTER
- ALL PLYWOOD SHALL BE STAMPED EXTERIOR GRADE
- WHERE SUPPORTED ROOF AREAS EXCEED THOSE LISTED IN THIS TABLE, THE POSTS SHALL BE BRACED AS SHOWN IN DOIC.
- WOOD POSTS TO BE MINIMUM 89mmx89mm
- BEARING CAPACITY OF SOIL SHALL BE CONFIRMED PRIOR TO CONSTRUCTION.

**LMCBO
STANDARD
DETAILS**

TITLE

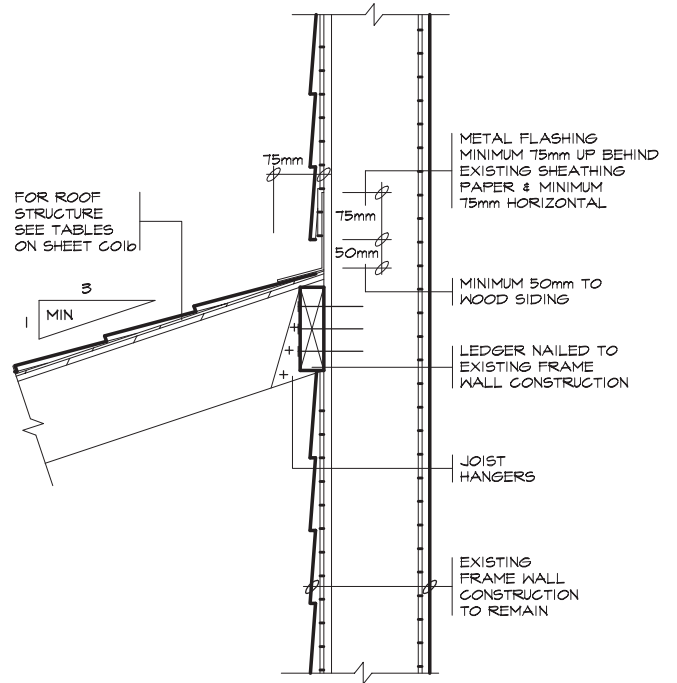
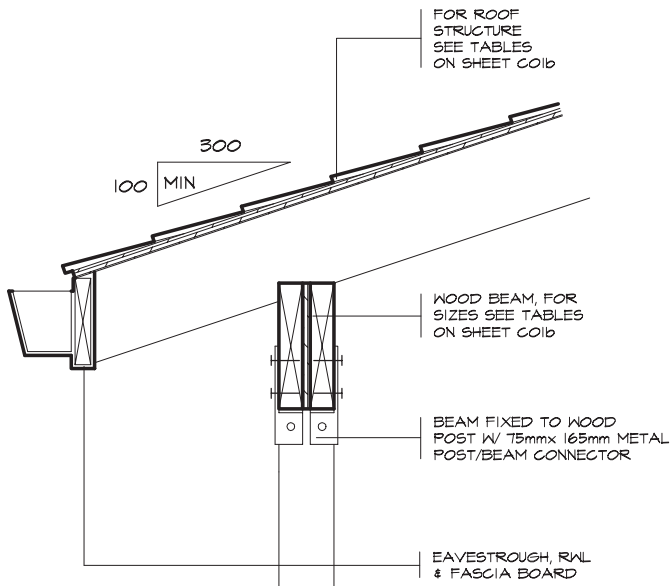
ATTACHED CARPORT SLOPING OR FLAT ROOFS, TABLES & NOTES

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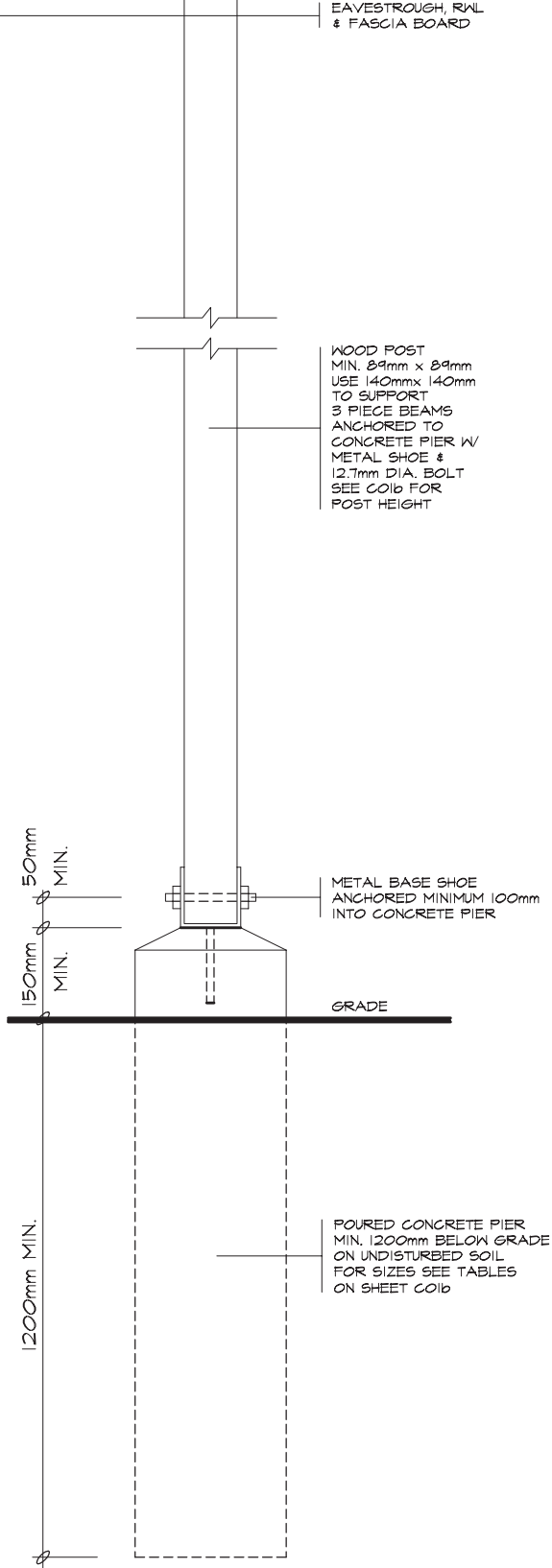
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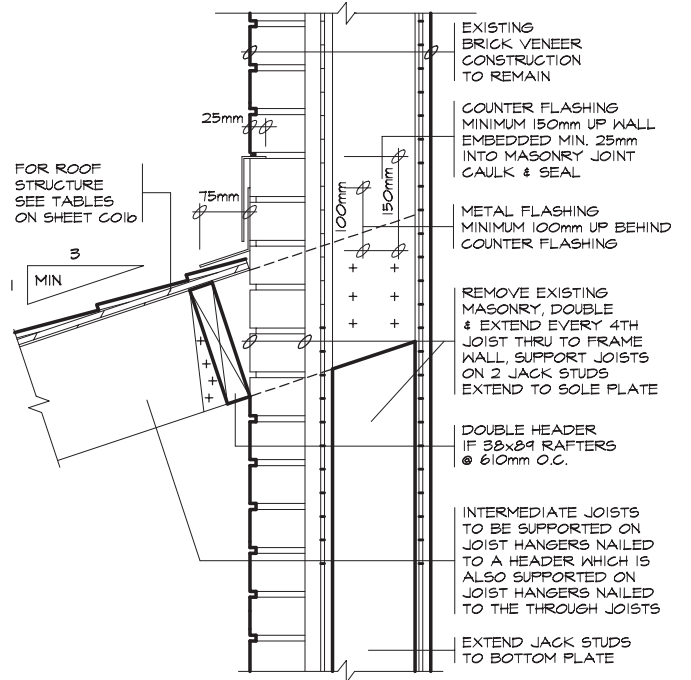
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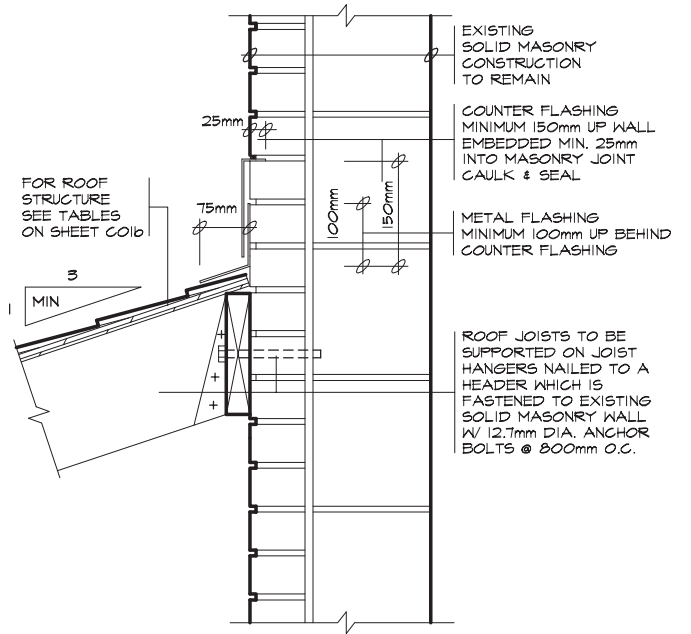
1 FRAME WALL



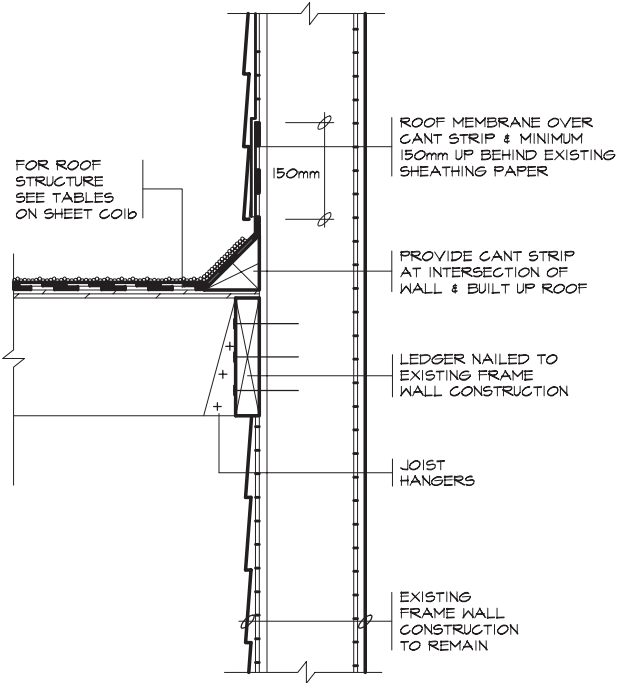
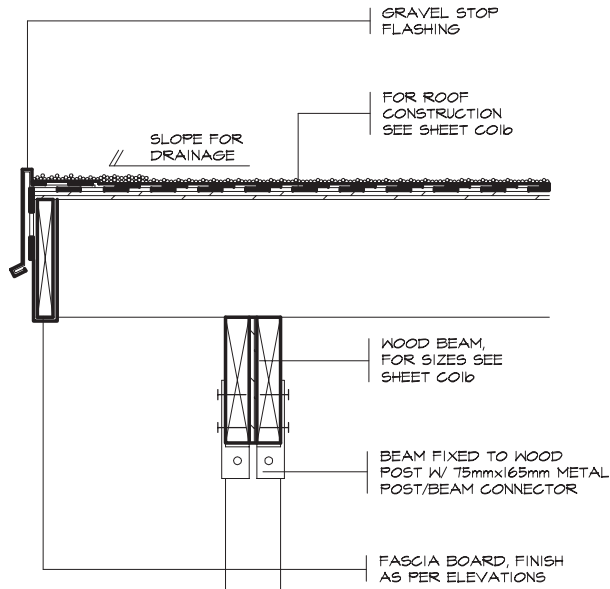
4 SUPPORT DETAIL



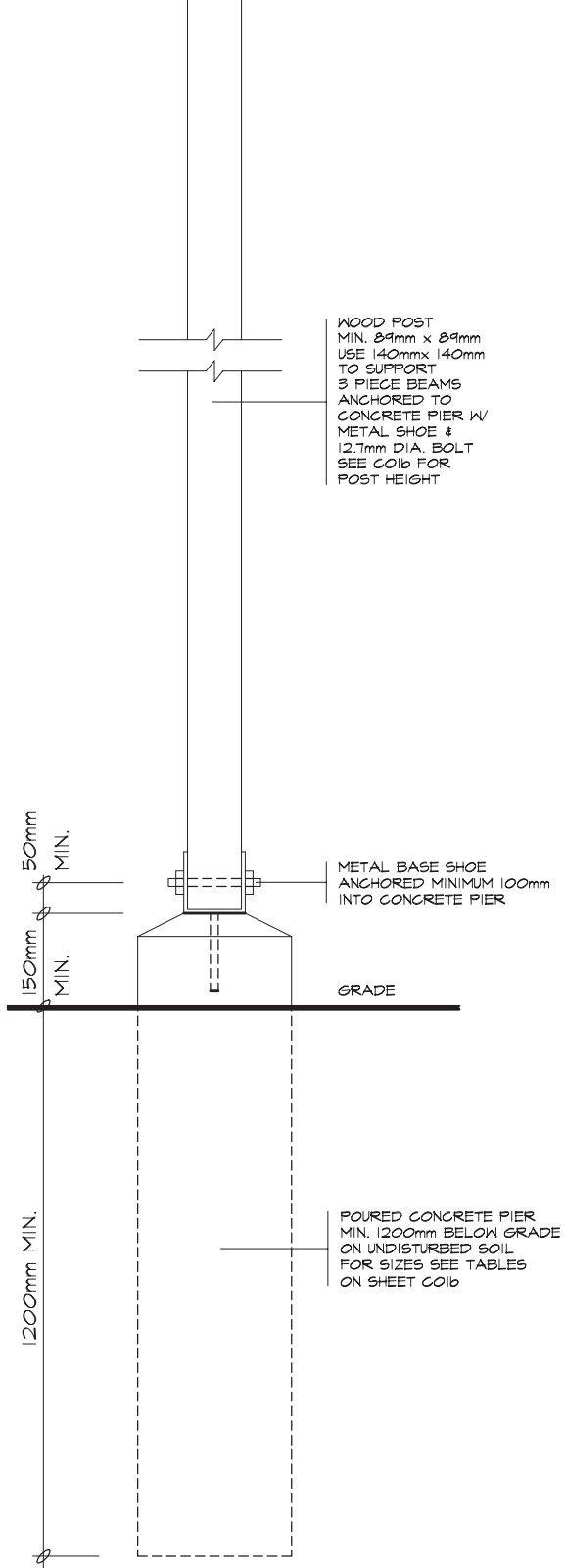
2 BRICK VENEER WALL



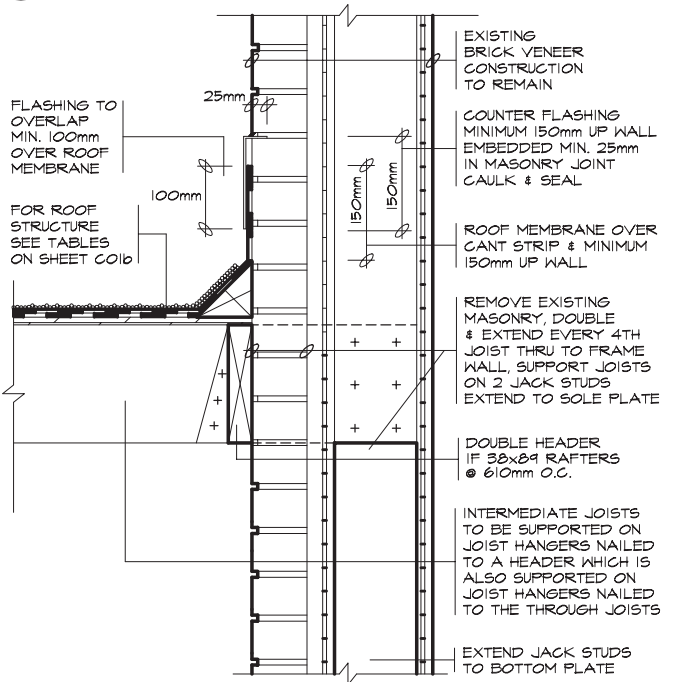
3 SOLID MASONRY WALL



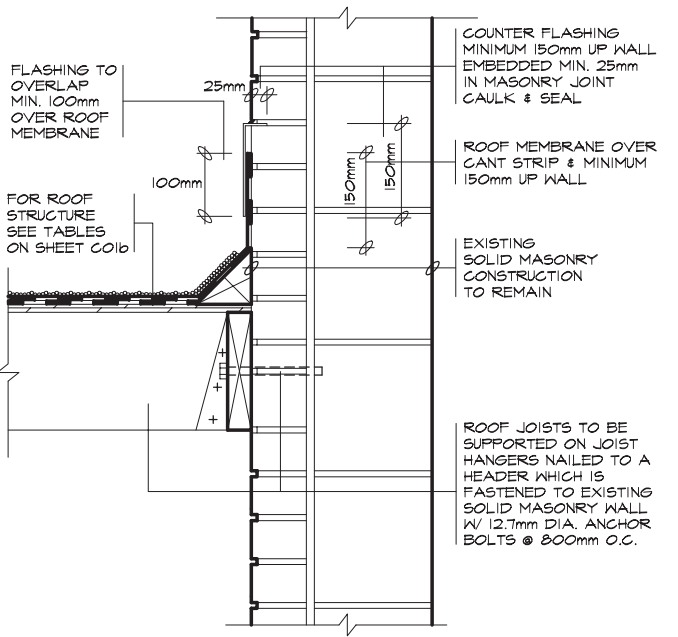
1 FRAME WALL



4 SUPPORT DETAIL



2 BRICK VENEER WALL



3 SOLID MASONRY WALL

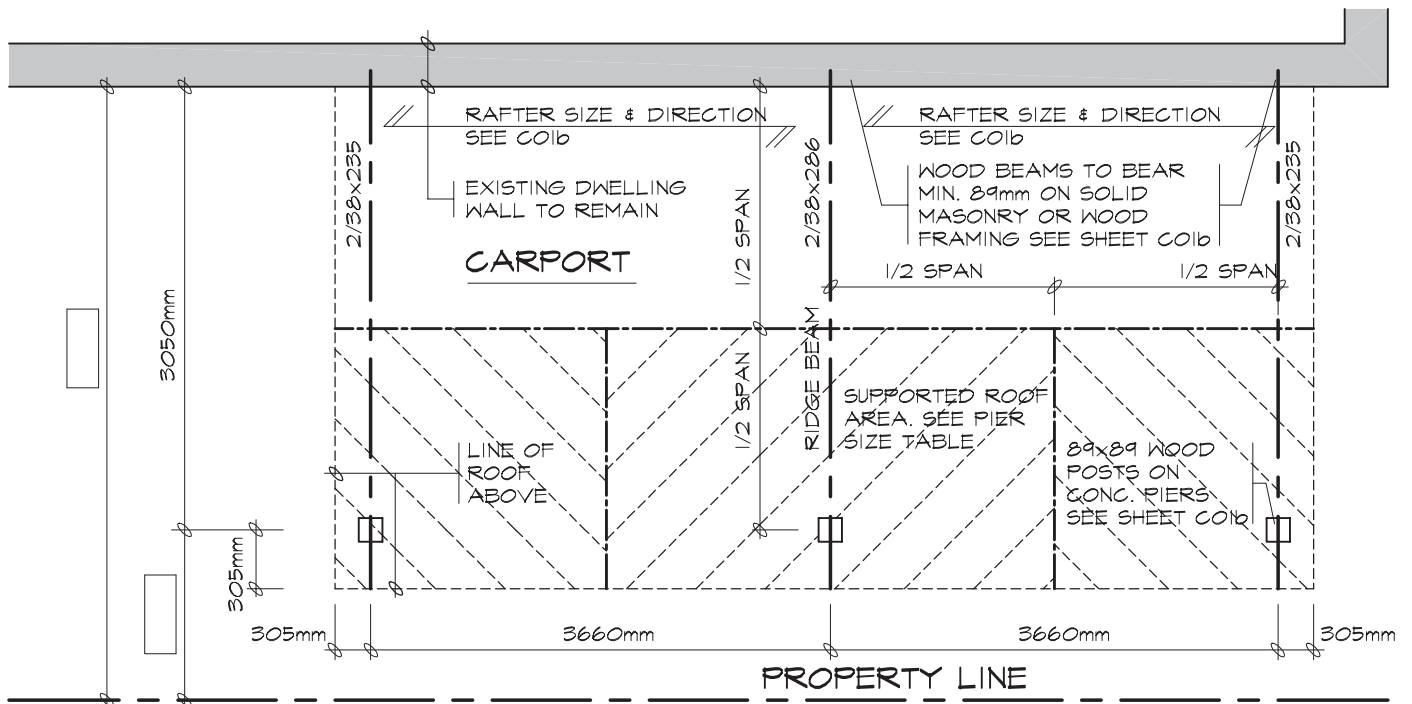
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TITLE
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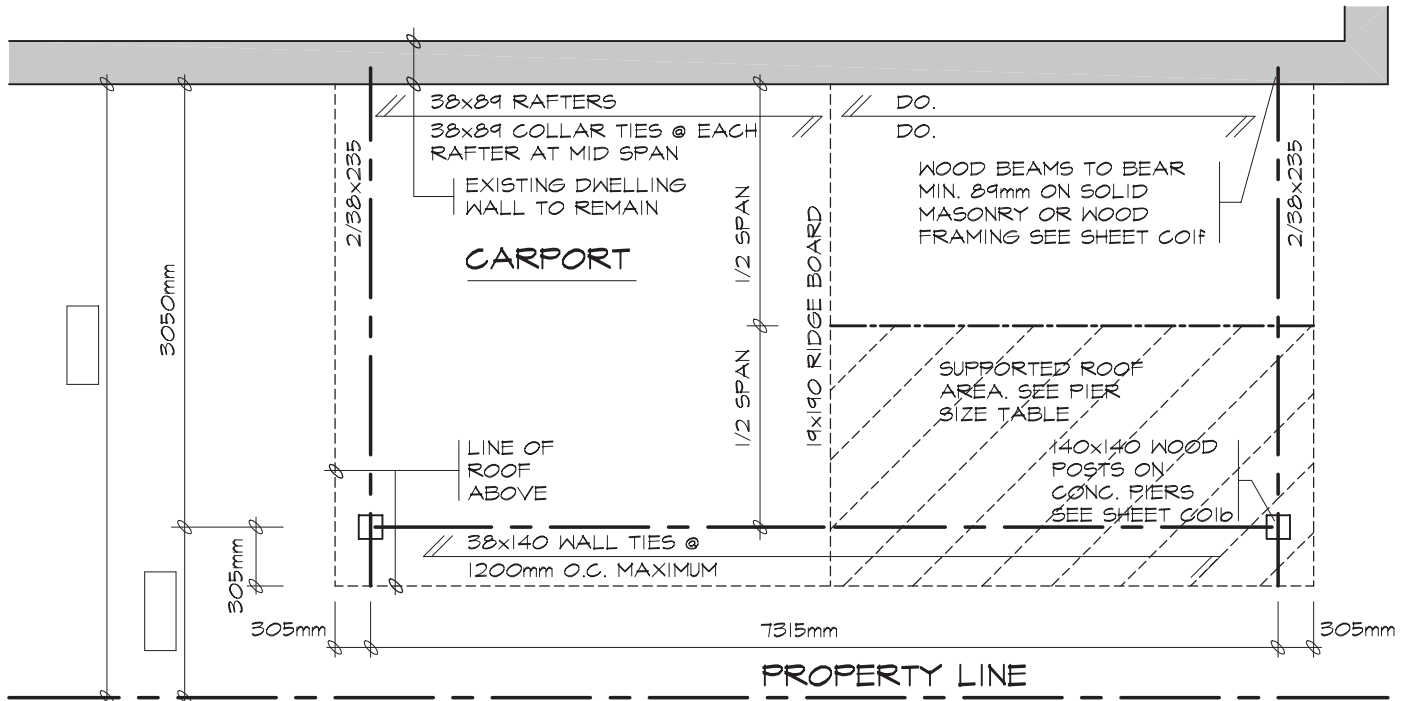
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cold
2012



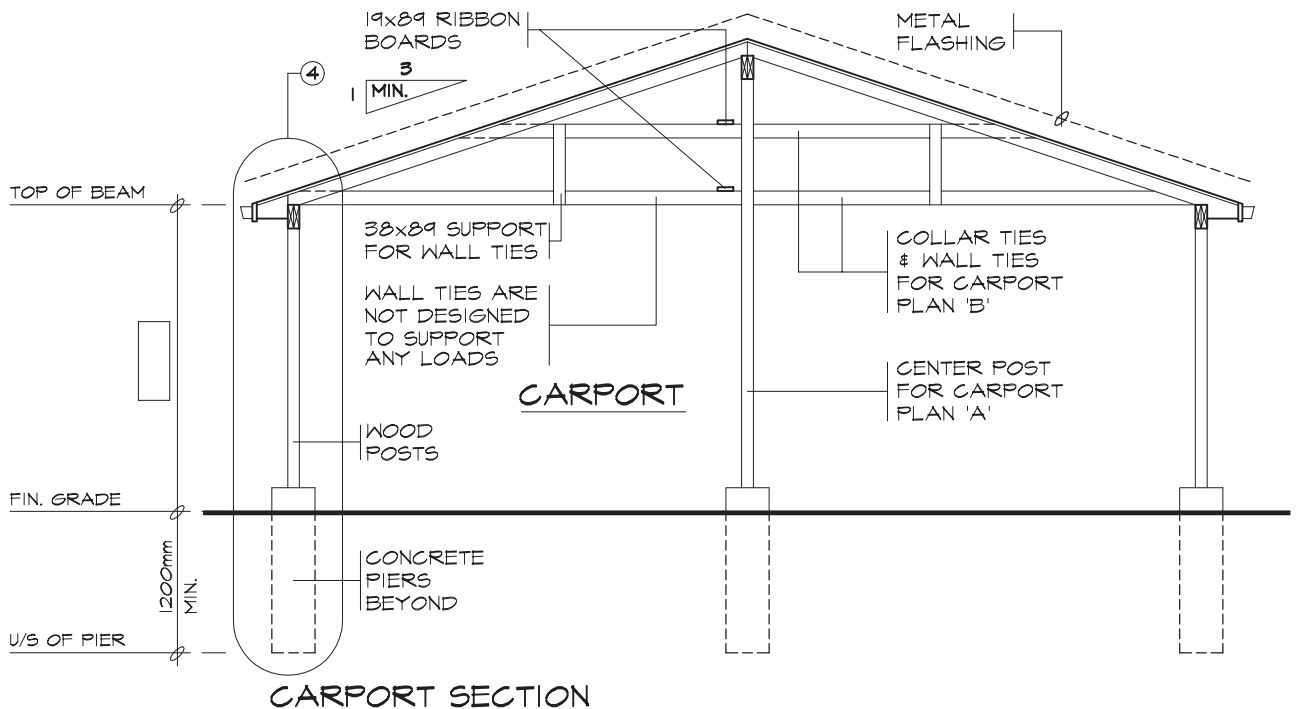
CARPORT PLAN 'A' POST & BEAM (PROVIDE DIMENSIONS)

SEE CO16 FOR STRUCTURAL SIZES



CARPORT PLAN 'B' CONVENTIONAL FRAMING (PROVIDE DIMENSIONS)

SEE CO16 FOR STRUCTURAL SIZES



**LMCBO
STANDARD
DETAILS**

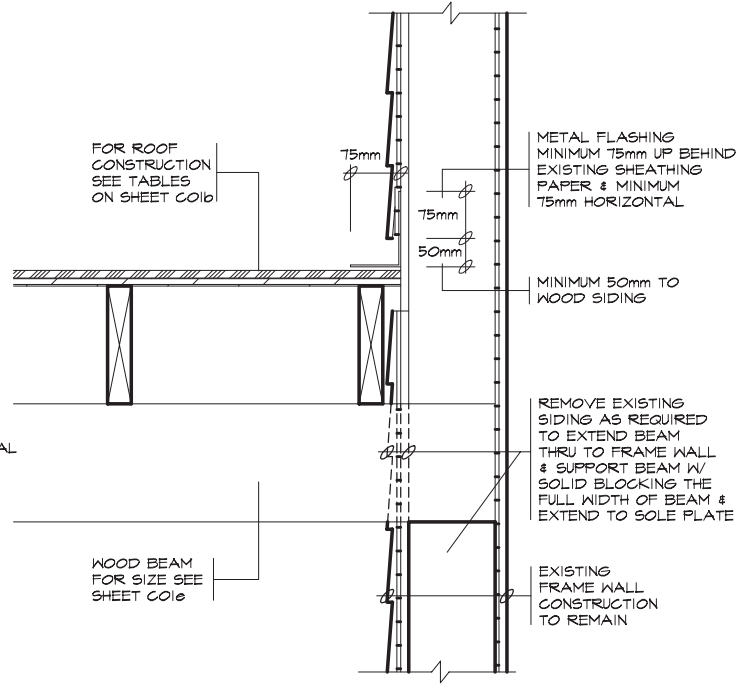
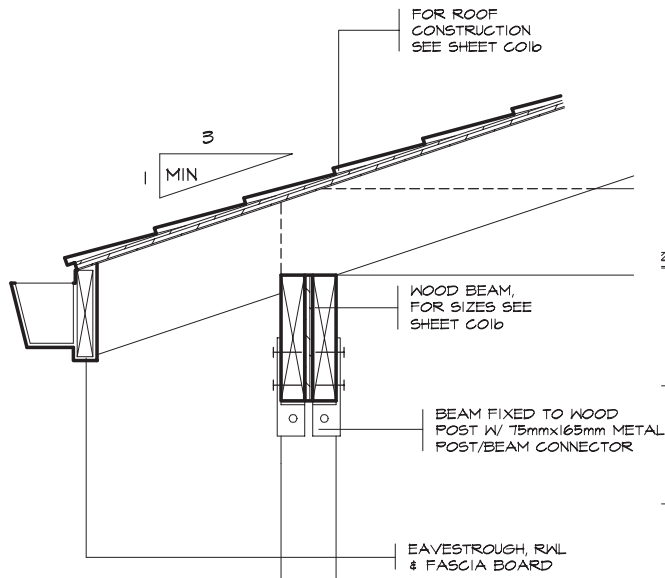
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ATTACHED CARPORT GABLE ROOF, PLAN & SECTION

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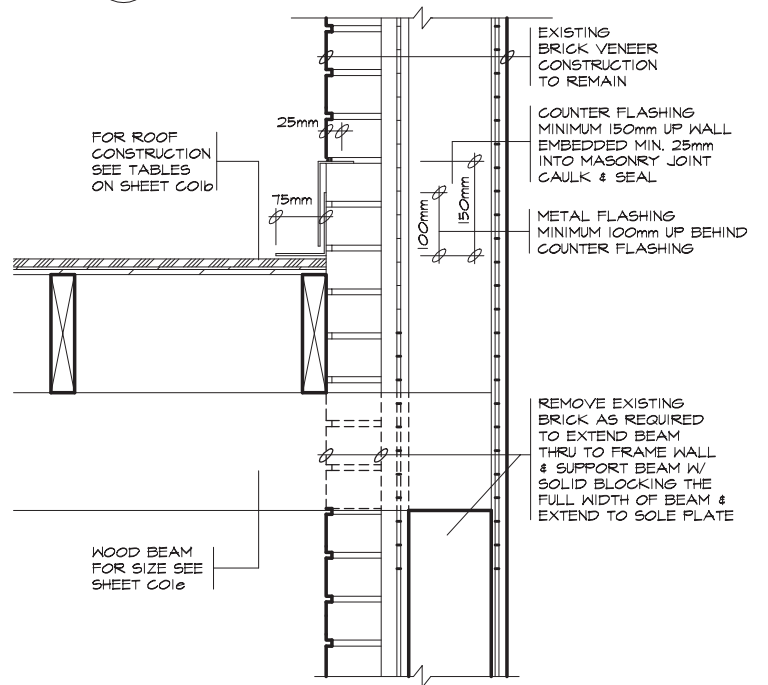
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COLE

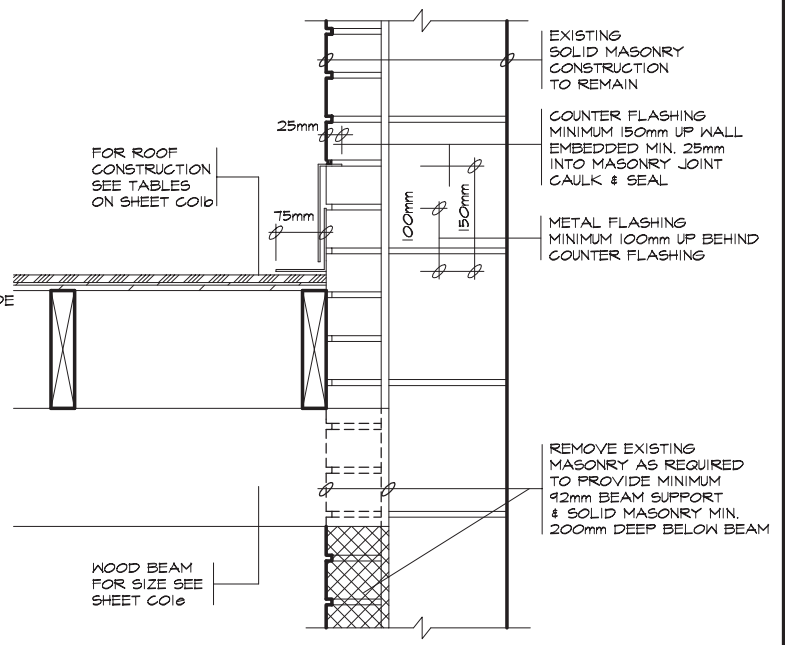
2012



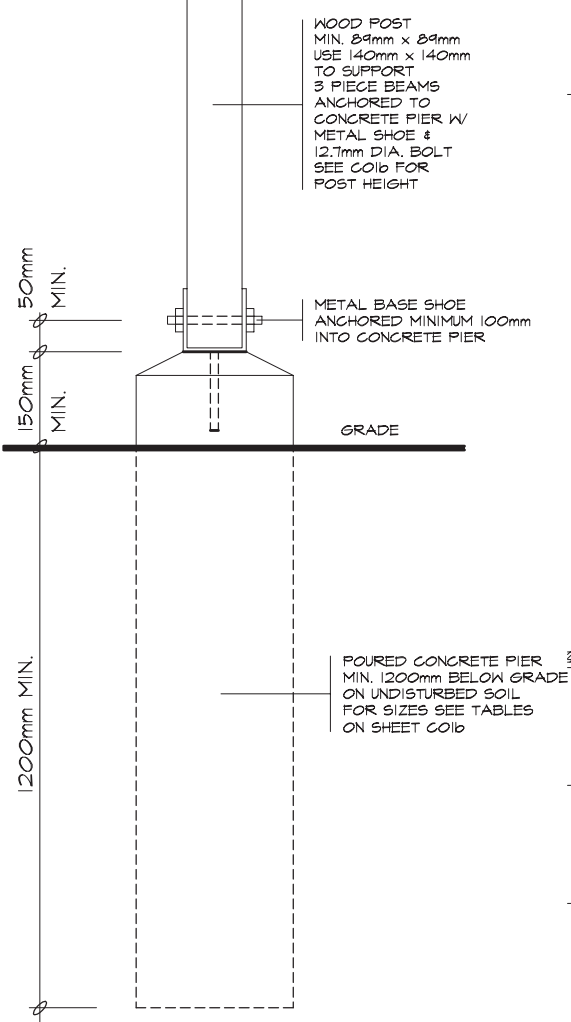
1 FRAME WALL



2 BRICK VENEER WALL



3 SOLID MASONRY WALL



4 SUPPORT DETAIL

**LMCBO
STANDARD
DETAILS**

TITLE
ATTACHED CARPORT GABLE ROOF, DETAILS

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DWG. NO.

CO1f

2012