TACBOC STANDARD DETAILS

THESE DRAWINGS ILLUSTRATE SOME OF THE MINIMUM ONTARIO BUILDING CODE REQUIREMENTS WHICH APPLY TO TYPICAL RESIDENTIAL CONSTRUCTION IN THE GREATER TORONTO AREA, AND ARE PROVIDED FOR INFORMATION PURPOSES ONLY. THEY DO NOT NECESSARILY REPRESENT EVERY DETAIL OF BUILDING CONSTRUCTION, OR ALL MINIMUM STANDARDS WHICH APPLY. FOR MORE DETAILED INFORMATION ABOUT CONSTRUCTION REGULATIONS REFER TO THE ONTARIO BUILDING CODE, YOUR MUNICIPAL BUILDING DEPARTMENT, OR A QUALIFIED DESIGNER.

CLIMATIC DESIGN REQUIREMENTS

THESE DETAILS APPLY TO ZONE I NON-ELECTRIC SPACE HEATING ONLY. AREAS OUTSIDE GREATER TORONTO MAY BE SUBJECT TO DIFFERENT CLIMATIC CONDITIONS WHICH MAY SIGNIFICANTLY AFFECT CONSTRUCTION REQUIREMENTS. THE CLIMATIC DESIGN DATA WHICH APPLIES TO THE SPECIFIC BUILDING LOCATION SHOULD BE CONFIRMED BEFORE ADOPTING ANY OF THE DETAILS IN A PROPOSED DESIGN. CLIMATIC DESIGN INFORMATION MAY BE FOUND IN THE SUPPLEMENTARY STANDARD SB-I OF THE 2006 ONTARIO BUILDING CODE.

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LMCBO STANDARD DETAILS TITLE

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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.

TOla

BUILDING PERMITS MUST BE OBTAINED BEFORE YOU START WORK ON A NEW HOUSE, AN ADDITION, OR ANY ALTERATIONS TO AN EXISTING HOUSE WHICH ARE SIGNIFICANT IN NATURE. PERMITS ARE GEARED TO THOSE PROJECTS WHERE HEALTH & SAFETY MATTERS ARE INVOLVED, AND EXIST TO PROTECT YOU, OTHER HOMEOWNERS, BUILDING OCCUPANTS, FUTURE OWNERS AND THE COMMUNITY.

WHEN DO I NEED A PERMIT ?

CONTACT YOUR LOCAL MUNICIPAL OFFICE FOR SPECIFIC PERMIT REQUIREMENTS FOR ANY PARTICULAR PROJECT.

PERMITS ARE NORMALLY REQUIRED FOR:

Building any detached structure larger than $10m^2$ Building any addition to your home Raised porches or decks Carports or garages Structural alterations Moving or lifting your house Installing a wood stove or fireplace Partitioning a basement or adding a basement entrance Creating an apartment in your house Altering or adding any plumbing Demolishing a house

PERMITS ARE NOT NORMALLY REQUIRED FOR:

Detached structures IOm^2 or less in area Decks which are 600mm or less from grade Replacement of windows, doors, roofing or siding New interior wall, floor or ceiling finishes Repairs to chimneys, porches, decks or roofs Waterproofing repairs to a basement Replacement of plumbing fixtures Replacement of a furnace

HOW DO I GET A PERMIT?

- I. Prepare drawings which accurately and to scale describe the construction you propose. Standard technical details are available at your local municipal office to assist in the preparation of your plans. The attached sample plans are an example of the scope of drawings usually required for an addition to a house. THESE DRAWINGS ARE NOT INTENDED FOR USE IN YOUR PERMIT APPLICATION. If you have someone else prepare your plans, ensure the designer has the appropriate qualifications required in the building code. It is usually advisable to verify with your local municipal office that your proposed site plan will meet local zoning standards before you prepare the complete construction plans.
- 2. Visit your local municipal office, and complete a building permit application.
- 3. Provide the required number of copies (usually 2 or 3) of the construction drawings, including a site plan.
- 4. Pay the permit fee.
- 5. If the approval of other agencies such as the Conservation Authority applies to your application, contact the agency and apply for approval. Your local municipality can advise you if any outside agency approvals apply to your application.

WHEN WILL I GET THE PERMIT?

Your permit will usually be issued within 10 to 15 business days if your drawings are complete and the proposed construction meets local zoning standards and the Ontario Building Code. If the approval of other agencies is required due to the location of your construction, such as the Conservation Authority, the permit may be delayed.

WHAT DO I HAVE TO DO AFTER I GET THE PERMIT?

Review your approved permit drawings before you start work, and keep them on the project site at all times. Make working copies if necessary. The permit must be posted in a conspicuous place on your property prior to starting work. You can commence construction any time after obtaining the permit and your permit will remain valid for a minimum of six months. Local utilities such as hydro, gas and telephone operate independently from your municipality and should be contacted regarding their specific approval and inspection requirements. All utilities must be contacted prior to commencing any excavation to determine the location of any nearby underground services.

Inspection requirements are normally noted on your permit drawings or the permit itself and must be arranged by contacting the municipal building inspection office prior to covering the work. For a house addition, an inspection is usually required for footings & foundations, structural framing, plumbing, heating, insulation and vapour barriers and final inspections before using the new space. Smaller projects such as decks, garages and minor alterations will usually involve fewer inspections.

If changes to the approved work are anticipated, speak with the inspector to determine if a revision to your permit is required. PLEASE REMEMBER TO WORK SAFELY!

LMCBO STANDARD DETAILS TITLE BUILDING PERMIT Q & A

DWG. NO.



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A small housing addition will usually require the submission of the following drawings. All drawings must be accurately drawn to scale, in ink. If the drawings are prepared by someone other than the owner, the designer must have the qualifications specified in the building code.

SITE PLAN

A SITE PLAN is a drawing showing the complete property and identifying all structures in relation to the property boundaries. A property survey is commonly used as a template for developing the site plan. The site plan should include:

- Scale
- North arrow
- Street location # name
- Lot lines & dimensions to all buildings
- Existing & proposed buildings
- Proposed changes to existing grade

FLOOR PLANS

A FLOOR PLAN is a drawing of the structure as seen as if it is cut horizontally a few feet above the floor line. One floor plan is required for every floor of the house which is affected by the new construction. Each plan shows the interior layout of the level in question as well as providing the structural framing information for the floor or roof above. Floor plans should include:

- Scale
- Use of rooms \$ spaces (label)
- Dimensions
- Extent of new construction including new work within existing building
- Size, type and location of exterior and interior walls and partitions
- Widths, locations and lintel sizes of all openings
- Location, dimensions and direction of stairs
- References to detailed drawings
- Material specifications or notes
- Heating and ventilation details
- Location of smoke alarms and carbon monoxide detectors

ELEVATIONS

ELEVATIONS show the exterior view of each side of the house. Each elevation is identified by the direction it is facing, and should include:

- Scale
- Extent of new \$ existing construction
- Dimensions of walls, windows \$ doors
- Grade level
- Exterior wall cladding, finishes \$ flashing
- Overhang dimensions
- Roof shape, slope # finish
- Rain water leader # eavestrough

SECTIONS and DETAILS

A SECTION represents a view of the house along an imaginary line at a particular location, \$\psi\$ illustrates construction details. The extent of the section should correspond with the sectional arrow shown on the plans. Sections should indicate the following:

- Scale
- Details of footings, foundations, walls, floors & the roof
- Distance from grade to floor \$ underside of footing
- Attic & crawl space ventilation

Some aspects of the project may require some specific details, such as engineered roof truss drawings. An inventory of standard construction details is available from your local municipal office, which can be used to augment your plans.

LMCBO STANDARD DETAILS TILE DRAWING REQUIREMENTS

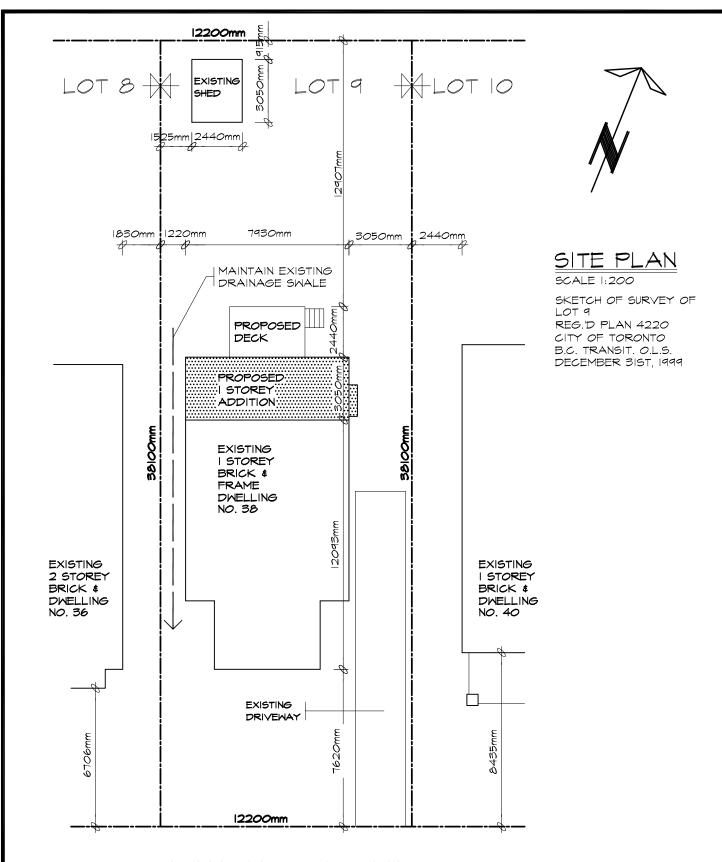
FOR A RESIDENTIAL ADDITION

DWG. NO.

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2012

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KHALMUR CRESCENT

ZONING R2 ZO.6	LOT N LOT 9		PLAN NO: 4220		LOT AREA 580.6-	4m2	LOT FRONTAG	E 200mm	LOT D	BEPTH 38110mm
DESCRIPTION	EXISTING	ADDITION	TOTAL	%	ALLOWED	%	SETBACKS	EXIST	ING	PROPOSED
LOT COVERAGE	86.52m2	24.l5m2	110.65m2	19.0			FRONT YARD	7620m	m	7620mm
GROSS FLOOR AREA	86.52m2	24.15m2	110.65m2	19.0	348.39m2	60.0	REAR			
LANDSCAPED AREA							YARD	18390mm		12907mm
NO. OF STORIES HEIGHT	I STOREY 4550mm	I STOREY 4550mm	I STOREY 4550mm	•	10000mm	•	INTERIOR SIDE (east)	3050m	ım	3050mm
WIDTH	7930mm	7930mm	7930mm				INTERIOR SIDE (west)	122 <i>0</i> mr	-	22 <i>0</i> mm
DEPTH	12093mm	3050mm	15143mm		17000mm		<u> </u>	1220mr	rı	1220mm
PARKING							EXTERIOR			

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

LMCBO STANDARD **DETAILS**

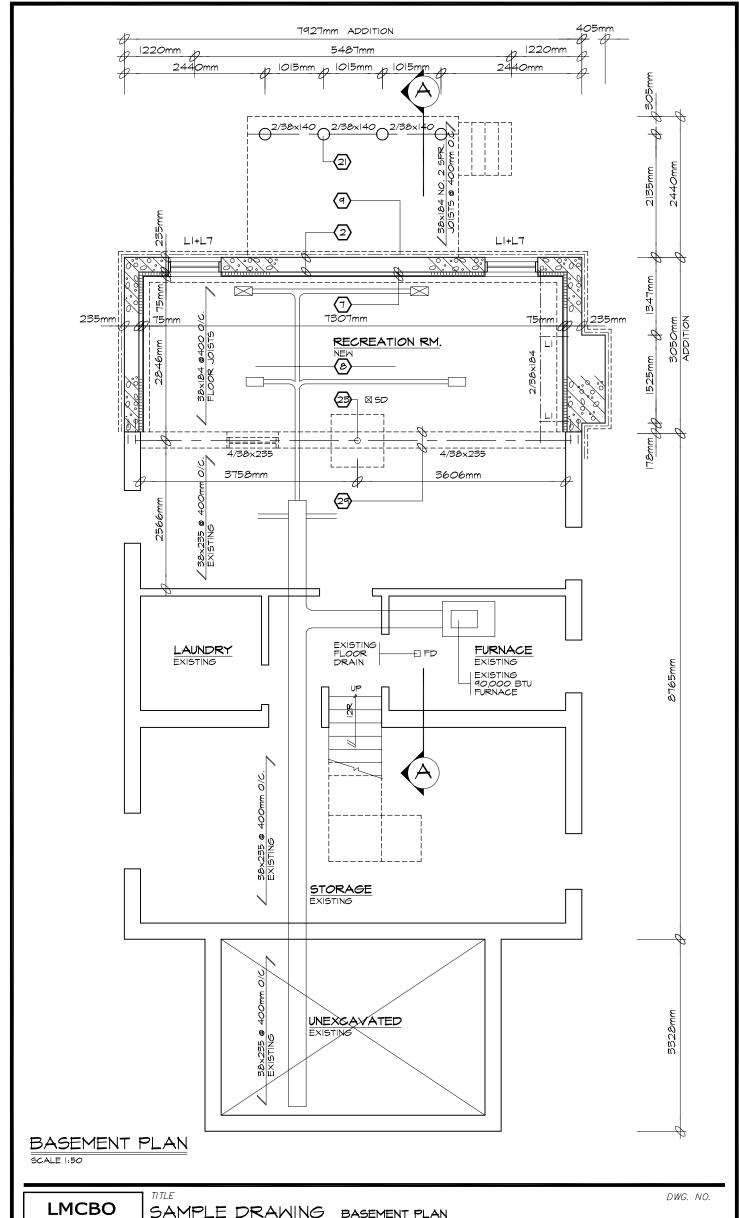
SAMPLE DRAWING

SITE PLAN

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DWG. NO.

A03a

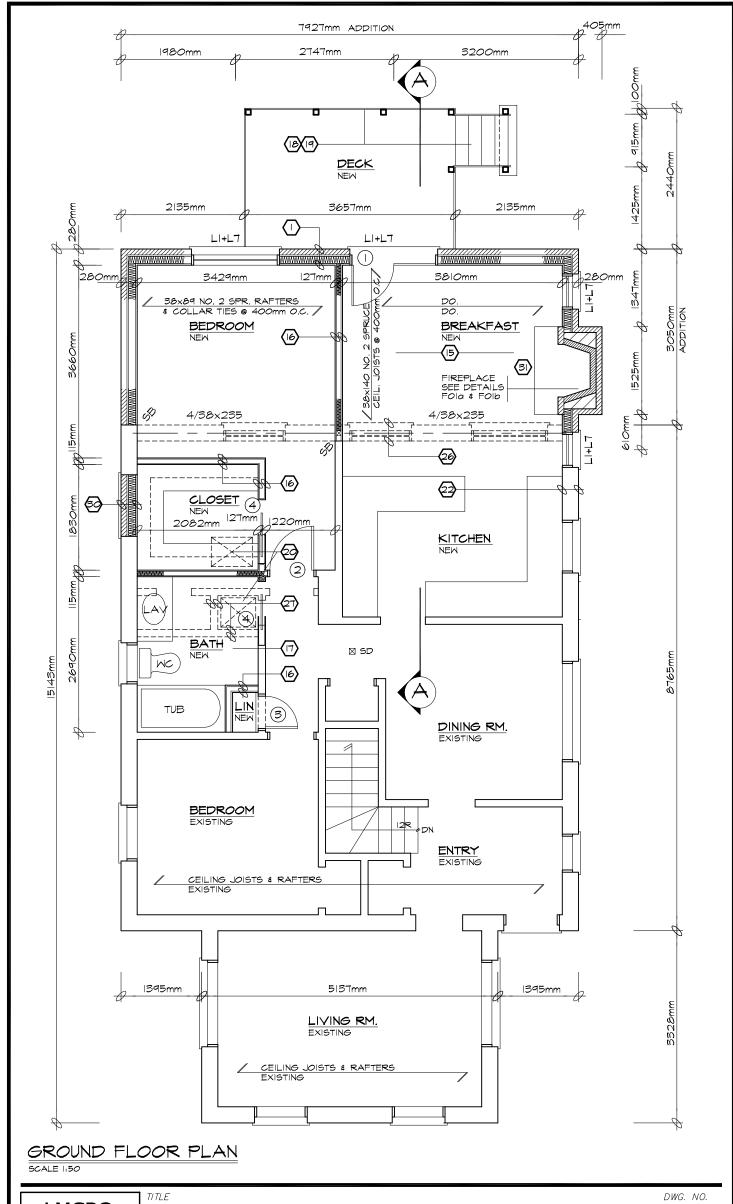


STANDARD **DETAILS**

SAMPLE DRAWING BASEMENT PLAN

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A03b

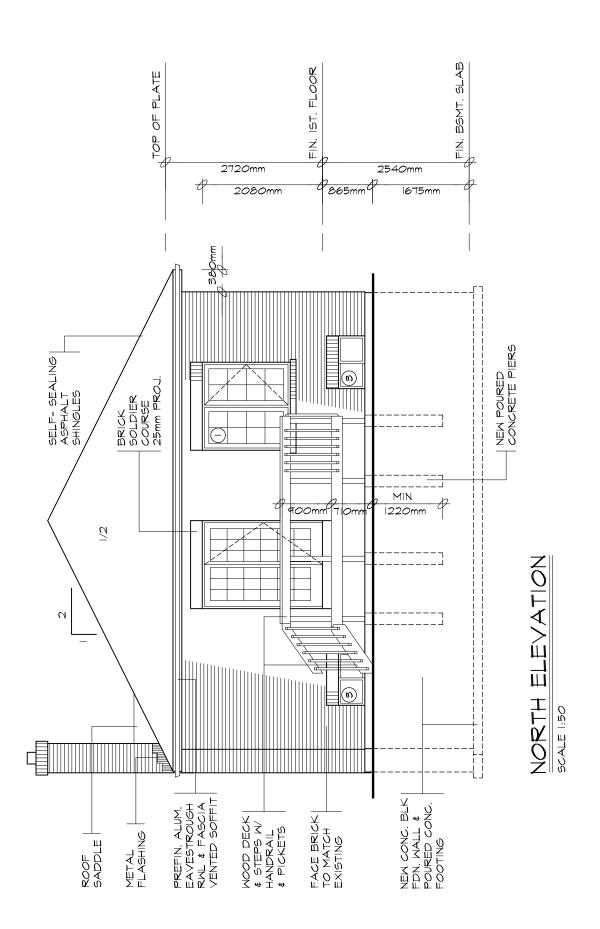


SAMPLE DRAWING

GROUND FLOOR PLAN

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A03c

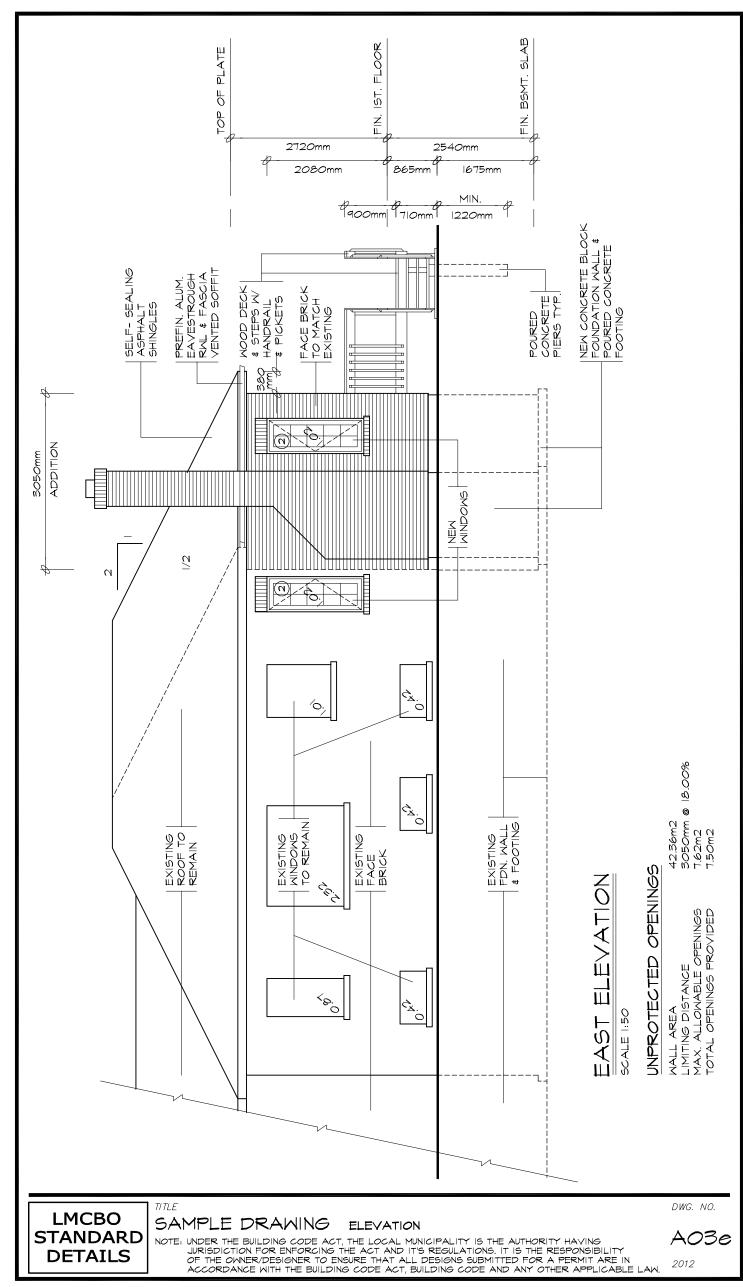


SAMPLE DRAWING ELEVATION

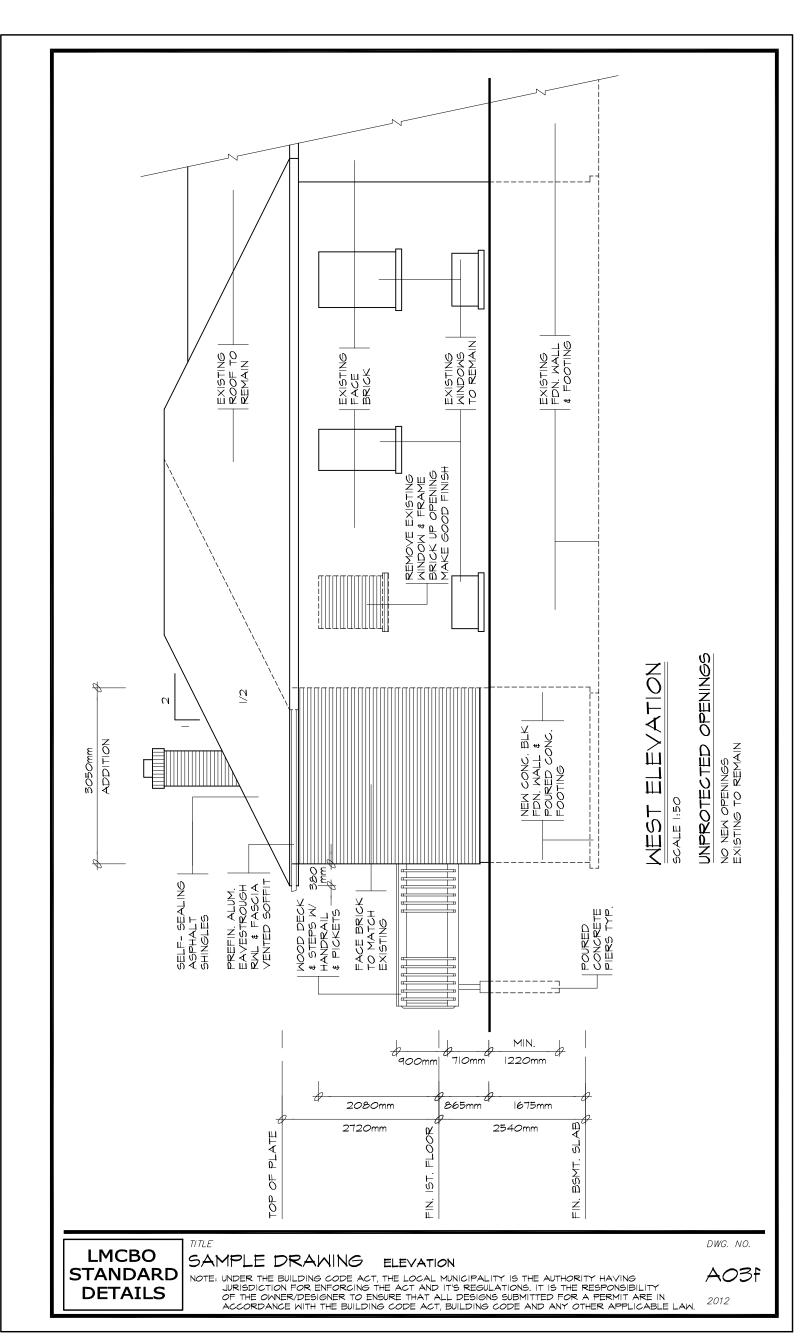
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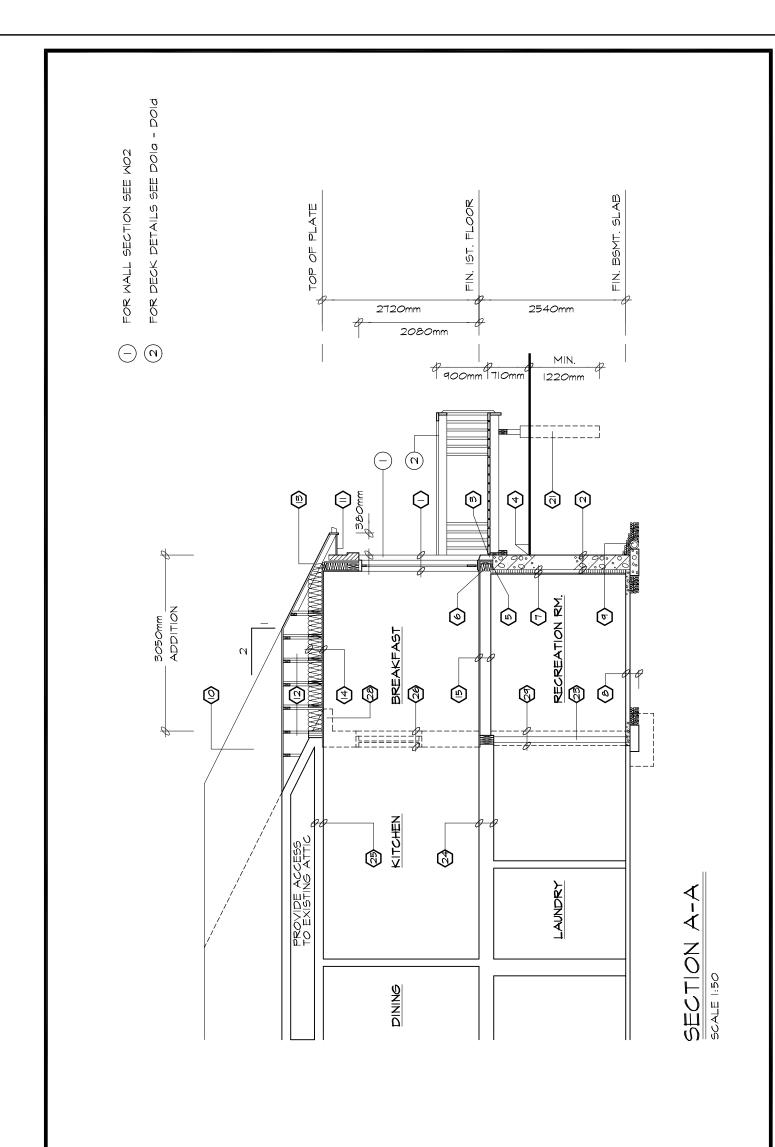
DWG. NO.

A03d



STANDARD DETAILS





TITLE

SAMPLE DRAWING cross SECTION

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DWG. NO.

A03g

CONSTRUCTION SPECIFICATIONS

 $\langle +
angle$ brick veneer wall

90mm FACE BRICK, 25mm AIR SPACE 0.76mm THICK × 22mm WIDE GALVANIZED METAL TIES INSTALLED W/ GALVANIZED SPIRAL NAILS OR SCREWS 400mm O.C. HORIZ., 600mm O.C. VERTAL BARRIER, LAYERS 600mm O.C. VERT. AIR BARRIER, LATERS
OVERLAP EACH OTHER
EXTERIOR TYPE SHEATHING
38x140 WOOD STUDS @ 400mm O.C.
RSI 4.23 BATT INSUL. IN CONTINUOUS
CONTACT W/ EXTERIOR SHEATHING CONTINUOUS AIR / VAPOUR BARRIER
12.7mm INTERIOR DRYWALL FINISH
DOUBLE PLATE @ TOP
SOLE PLATE @ BOTTOM

 $\langle 2
angle$ Foundation Wall

BITUMINOUS DAMPPROOFING ON MINIMUM 6mm PARGING ON CONCRETE BLOCK FDN. WALL CONCRETE BLOCK FUN. WALL
TOP BLOCK COURSE FILLED
W/ MORTAR OR CONCRETE
PROVIDE PARGING COVED OVER
450mmx150mm POURED CONC. FOOTING
TO BEAR ON UNDISTURBED SOIL

- PROVIDE DRAINAGE LAYER MIN. 19mm MINERAL FIBRE INSULATION W/ A DENSITY OF
- NOT LESS THAN 57kg/m3. OR MIN. 100mm OF FREE DRAINING GRANULAR MATERIAL OR
- A B.M.E.C. APPROVED DRAINAGE LAYER MATERIAL

(3)BRICK VENEER @ FDN. WALL

O.5mm POLY FLASHING MINIMUM 150mm UP BEHIND SHEATHING PAPER WEEP HOLES @ MIN. 800mm APART

 $\langle 4
angle$ GRADE

SLOPE GRADE AWAY FROM BUILDING FACE & PROVIDE SEMI-SOLID BLOCK COURSE AT OR BELOW GRADE LEVEL

 \langle 5angleSILL PLATE

38x140 SILL PLATE FASTENED
TO FOUNDATION WALL WITH
MIN. 12.7mm DIA. ANCHOR BOLTS
EMBEDDED MIN. 100mm IN CONCRETE
@ 2400mm O/C. MAX. & PROVIDE A
CONTINUOUS AIR BARRIER BETWEEN
THE FOUNDATION WALL & WOOD
ERAME CONSTRUCTION FRAME CONSTRUCTION

 $\langle 6
angle$ FLOOR INSULATION

CONTINUOUS HEADER JOIST WITH RSI 5.46 BATT INSULATION, EXTEND VAPOUR / AIR BARRIER & SEAL TO JOIST AND SUBFLOOR

 $\langle \tau \rangle$ foundation insulation

12.7mm INTERIOR DRYWALL FINISH ATTIC ACCESS

MIN. RSI 3.52 INSULATION W/ 0.15mm POLY

VAPOUR BARRIER FULL HEIGHT.

MOISTURE BARRIER TO HEIGHT OF

MIN. 545mmx588mm W EXTERIOR GRADE BETWEEN FOUNDATION WALL & WOOD FRAMING

(8) BASEMENT SLAB

75mm POURED CONCRETE SLAB (25 MPa CONC. STRENGTH) (25 MPa CONC. STRENGTH)
100mm CRUSHED STONE BELOW

(9)DRAINAGE

100mm DIA. WEEPING TILE W/ 150mm CRUSHED STONE COVER

(10) ROOF CONSTRUCTION

20 YEAR ASPHALT SHINGLES W/
EAVES PROTECTION ON MIN. 9.5mm
EXTERIOR PLYWOOD SHEATHING
ON APPROVED ROOF TRUSSES OR
CONVENTIONAL FRAMING (SEE PLANS)
USE 'H' CLIPS IF 600mm O.C. SPACING

 $\langle \, {\scriptstyle ||} \, \rangle$ overhang construction

PREFINISHED ALUMINUM FASCIA EAVESTROUGH & RAIN WATER LEADERS TO MATCH EXISTING FINISHES, PROVIDE DRIP EDGE AT FASCIA & VENTED SOFFIT EXTEND DOWNSPOUTS TO GRADE LEVEL

(12) ROOF VENTILATION

1:300 OF THE INSULATED CEILING AREA UNIFORMLY DISTRIBUTED.

(IB) EAVES PROTECTION

EAVES PROTECTION MEMBRANE TO
EXTEND FROM THE EDGE OF THE
ROOF, 900mm UP THE SLOPE BUT NOT
LESS THAN 300mm BEYOND THE
INTERIOR FACE OF THE EXTERIOR WALL

EXISTING CEILING STRUCTURE
TO REMAIN

(14) CEILING CONSTRUCTION

I5.9mm INTERIOR DRYWALL FINISH CONTINUOUS AIR / VAPOUR BARRIER W/ MINIMUM RSI 8.81 BATT INSULATION

(15) FLOOR CONSTRUCTION

15.5mm T&G PLYWOOD SUBFLOOR 38x184 FLOOR JOISTS @ 400mm O/C. 55X164 FLOOR JOISTS & 400mm ON FLOOR JOISTS BRIDGED W/ CONTINUOUS IGMMX64mm STRAPPING OR 2 ROWS OF 36mmx36mm CROSS BRIDGING OR SOLID BLOCKING

(16) INTERIOR STUD PARTITION

12.7mm DRYWALL FINISH BOTH SIDES OF 38x89 MOOD STUDS @ 400mm O/C 2 TOP PLATES & I BOTTOM PLATE PROVIDE REINFORCEMENT FOR FUTURE GRAB BAR INSTALLATION IN BATHROOM

 $\langle 17 \rangle$ MECHANICAL VENTILATION

PROVIDE MIN. 5.0 L/S IN KITCHENS AND BATHROOMS, 37.5 L/S FOR PRINCIPAL EXHAUST FAN

(18) STAIRS INTERIOR/EXTERIOR

MAXIMUM RISE 200mm MINIMUM RISE 125mm MINIMUM RUN 210mm MAXIMUM RUN = 355mm MINIMUM TREAD MAXIMUM TREAD = 355mm MAXIMUM NOSING MINIMUM MIDTH MINIMUM HEADROOM 860mm 1950mm

(19) GUARDS

INTERIOR LANDINGS EXTERIOR BALCONY = 1070mm INTERIOR STAIRS EXTERIOR STAIRS = 900mm 900mm MAX. BETWEEN PICKETS

GUARD HEIGHT IF DECK TO GRADE IS: GREATER THAN 1800mm 1800mm OR LESS 900mm NO MEMBER OR ATTACHMENT BETWEEN 140mm \$ 900mm HIG BETWEEN 140mm & 900mm HIGH SHALL FACILITATE CLIMBING

PROVIDE ATTIC ACCESS
MIN. 545mmx588mm W/ INSULATION
\$ WEATHER STRIPPING

(21) PIERS

PROVIDE 200mm DIA, SONO TUBE FOR POURED CONCRETE PIERS MINIMUM 1200mm BELOW GRADE

22 EXISTING SOLID MASONRY EXTERIOR WALL TO REMAIN.

73mm DIA. PIPE COLUMN W/ 100mmx100mmx6.35mm TOP \$ BOTTOM PLATE ImxImx450mm CONCRETE FOOTING

TO REMAIN.

 $\langle 26
angle$ remove existing exterior wall AS SHOWN DOTTED

(27) REMOVE EXISTING INTERIOR STUD PARTITIONS AS SHOWN DOTTED

28 REMOVE EXISTING ROOF OVERHANG AS SHOWN DOTTED (29) REMOVE EXISTING FOUNDATION WALL

AS SHOWN DOTTED REMOVE EXISTING WINDOW & FRAME MAKE GOOD OPENING W/ BRICK TO MATCH EXISTING ON THE EXTERIOR

INSTALL A CARBON MONOXIDE DETECTOR CONFORMING TO CAN/CGA-6.19 OR UL 2034

LMCBO STANDARD DETAILS

SAMPLE DRAWING CONSTRUCTION SPECIFICATIONS

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DWG. NO.

A03h

ROOM FINISH SCHEDULE											
RM.	ROOM	FLOOR BASE		BASE	WALLS		CEILING			REMARKS	
NO.	NAME	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
	FIRST FLOOR										
0	KITCHEN	CERAMIC TILE		WOOD	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	2720mm	
2	BREAKFAST	MOOD	STAIN	MOOD	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	2720mm	MAPLE TO MATCH EXISTING
3	BEDROOM	MOOD	STAIN	MOOD	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	2720mm	MAPLE TO MATCH EXISTING
4)	CLOSET	MOOD	STAIN	MOOD	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	2720mm	MAPLE TO MATCH EXISTING
5.	BATH	CERAMIC TILE		MOOD	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	2720mm	
	BASEMENT										
6	REC. ROOM	CONC.	CERAMIC TILE	MOOD	PAINT	DRYWALL	PAINT			2340mm	

D	DOOR SCHEDULE							
NO.	TYPE	SIZE	QTY.	REMARKS				
\bigcirc	EXTERIOR	1525mmx 2030mm	1.	FRENCH DOOR				
2	SLAB	760mmx 2030mm	Ι.	800 SERIES				
3	SLAB	610mmx 2030mm	_:	800 SERIES				
4	POCKET DOOR	610mmx 2030mm	2.					

LII	LINTEL SCHEDULE							
NO.	DESCRIPTION							
	2-38x184 SPRUCE							
(3-38×184 SPRUCE							
	2-38×235 SPRUCE							
	3-38×235 SPRUCE							
(1)	2-38×286 SPRUCE							
(3-38×286 SPRUCE							
(90mmx 90mmx 6mm L							
(90mmx 90mmx 8mm L							
9	100mmx 90mmx 6mm L							

M	ONE WINDOW PER FLOOR TO HAVE AN UNOBSTRUCTED OPEN PORTION W/ A MIN. AREA OF 0.35m2 W/ NO DIMENSION LESS THAN 380mm & MAXIMUM SILL HEIGHT OF IM ABOVE FLOOR						
NO.	TYPE	SIZE	QTY.	REMARKS			
\odot	CASEMENT	1525mmx 1525mm	1.	MAXIMUM U-VALUE 1.8			
2	CASEMENT	610mmx 1525mm	2.	MAXIMUM U-VALUE 1.8			
3	SLIDER	915mm× 450mm	2.	MAXIMUM U-VALUE 1.8			

<u>LEGEND</u>

R

₩P ⇒ DUPLEX OUTLET (WEATHERPROOF)

⇒ DUPLEX OUTLET (HGT. ABOVE FLR.) DUPLEX OUTLET (300mm ABOVE FLR.) \Rightarrow lacksquareEXHAUST FAN SMITCH #HB HOSE BIB SD SMOKE DETECTOR

HEAVY DUTY OUTLET • LIGHT FIXTURE (WALL MOUNTED)

LIGHT FIXTURE (CEILING MOUNTED) P POT LIGHT FIXTURE

LIGHT FIXTURE (WATER RESISTANT)

 \circ LIGHT FIXTURE (CAPPED) FLUORESCENT LIGHT FIXTURE

⊠_C SOLID WOOD BEARING

☐FD FLOOR DRAIN TV CABLE OUTLET

◁ TELEPHONE OUTLET (0) COMPUTER OUTLET DE DRYER EXHAUST

LMCBO STANDARD DETAILS

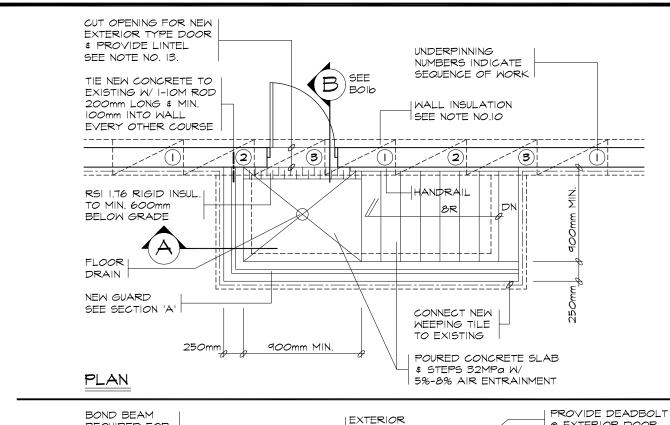
SAMPLE DRAWING

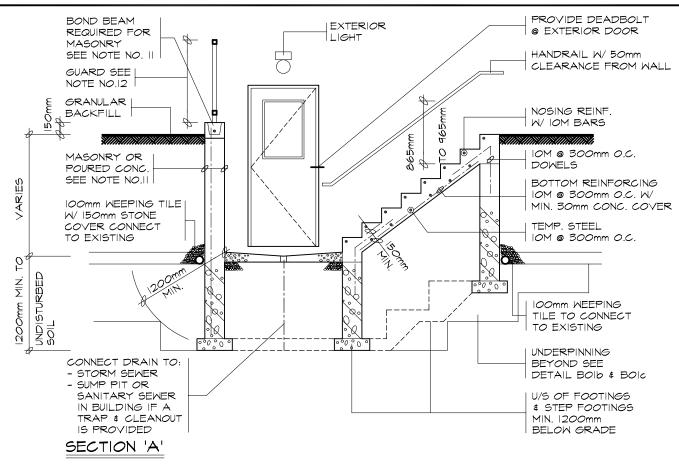
SCHEDULES

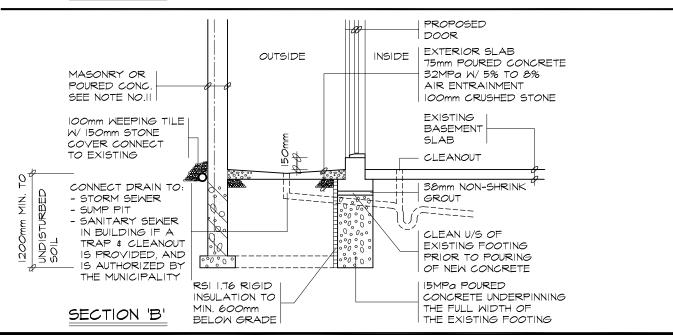
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DWG. NO.

A03i







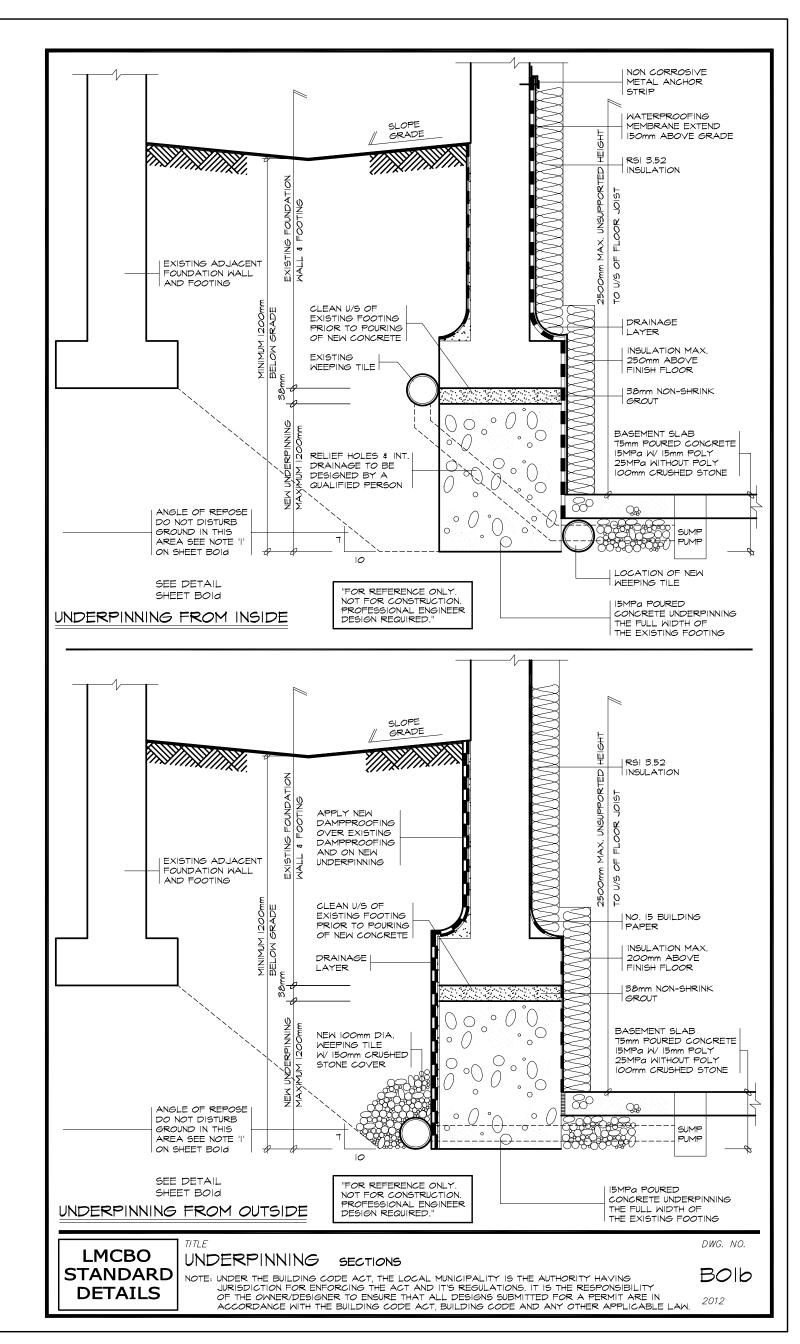
BASEMENT WALKOUT PLAN

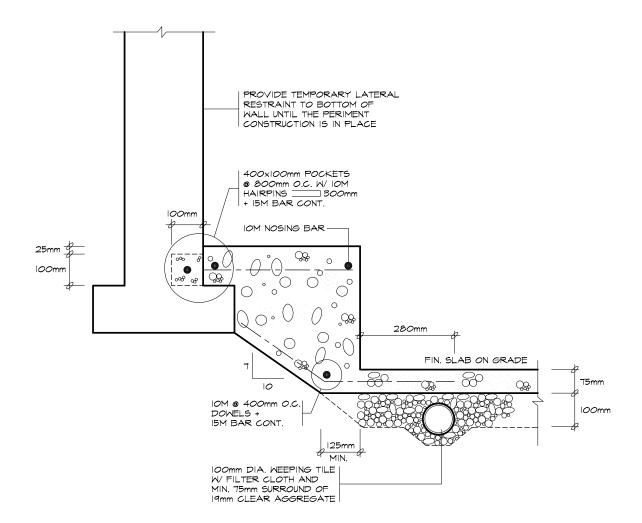
PLAN & SECTIONS

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DWG. NO.

B01a





GENERAL NOTES

- I. EXCAVATION FOR THE PROPOSED WORK SHOULD NOT UNDERMINE THE FOUNDATIONS OF ADJOINING BUILDINGS, OR CAUSE DAMAGE TO UTILITIES, ROADS AND SIDEWALKS. A MAXIMUM 7:10 ANGLE OF REPOSE SHALL BE MAINTAINED UNLESS OTHERWISE CERTIFIED BY A GEOTECHNICAL ENGINEER
- 2. PROVIDE ALL BRACING, SHORING AND NEEDLING NECESSARY FOR THE SAFE EXECUTION OF THIS WORK.
- 3. CONCRETE STRENGTH SHALL BE A MINIMUM 15MPa AT 28 DAYS

LOWERING OF BASEMENT FLOOR SLAB FROM INSIDE

"FOR REFERENCE ONLY. NOT FOR CONSTRUCTION, PROFESSIONAL ENGINEER DESIGN REQUIRED."

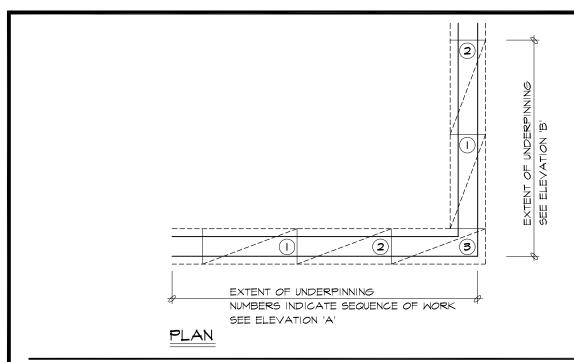
LMCBO STANDARD DETAILS

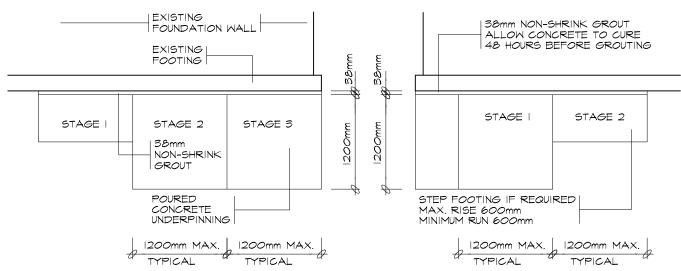
BENCH-TYPE UNDERPINNING SECTIONS, NOTES

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.

BOIC





ELEVATION 'A'

ELEVATION 'B'

GENERAL NOTES

- I. WHERE THE FOUNDATIONS OF A BUILDING ARE TO BE CONSTRUCTED BELOW THE LEVEL OF THE FOOTINGS OF AN ADJACENT BUILDING AND WITHIN THE ANGLE OF REPOSE OF THE SOIL, OR THE UNDERPINNING EXCEEDS 1200mm OF LATERALLY UNSUPPORTED HEIGHT OR THE SOIL IS CLAY OR SILT, THE UNDERPINNING & RELATED CONSTRUCTION SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER.
- 2. EXCAVATION SHALL BE UNDERTAKEN IN A MANNER SO AS TO PREVENT MOVEMENT WHICH WOULD CAUSE DAMAGE TO ADJACENT PROPERTY, STRUCTURES, UTILITIES, ROADS & SIDEWALKS. CONTACT YOUR LOCAL UTILITIES PRIOR TO COMMENCING EXCAVATION.
- 3. MINIMUM CONCRETE STRENGTH FOR UNDERPINNING SHALL BE 15MPa AT 28 DAYS. ALL EXTERIOR CONCRETE SHALL BE 32MPa W/ 5%-8% AIR ENTRAINMENT.
- 4. CONCRETE SHALL BE CURED MINIMUM 48 HOURS BEFORE GROUTING AND PROCEEDING TO THE NEXT STAGE.
- 5. SHORE & BRACE WHERE NECESSARY TO ENSURE THE SAFETY & STABILITY OF THE EXISTING STRUCTURE DURING UNDERPINNING.
- 6. WEEPING TILE IS TO DRAIN TO THE STORM SEWER, DITCH, DRYWELL OR INSTALL COVERED SUMP PIT WITH AN AUTOMATIC PUMP.
- 7. FOOTINGS

450mmx100mm POURED CONC. FOOTING ALL FOOTINGS SHALL REST ON NATURAL UNDISTURBED SOIL OR COMPACTED GRANULAR FILL

"FOR REFERENCE ONLY. NOT FOR CONSTRUCTION. PROFESSIONAL ENGINEER DESIGN REQUIRED."

8. CONCRETE

MINIMUM COMPRESSIVE STRENGTH OF 32MPa @ 28 DAYS W/ 5% TO 8% AIR ENTRAINMENT

9. EXTERIOR STAIRS

200mm RISE MAXIMUM 125mm MINIMUM 210mm RUN MINIMUM 355mm MAXIMUN 235mm TREAD MINIMUM 355mm MAXIMUM

IO.INSULATION

- MIN. RSI 4.23 (R24) INSULATION & VAPOUR BARRIER ON THE INSIDE FACE OF THE EXPOSED FOUNDATION WALL
- MIN. RSI 1.76 (RIO) INSULATION FOR 600mm BELOW GRADE AT WALKOUT LANDING

II. RETAINING WALL

250mm MASONRY OR POURED CONCRETE W/ NO REINFORCING REQUIRED FOR WALL HEIGHTS TO A MAX. OF 1200mm PROVIDE 25M VERTICAL REINFORCEMENT @ 600mm O.C. AND A BOND BEAM CONTAINING AT LEAST ONE 15M REINFORCEMENT FOR BACKFILL HEIGHTS TO A MAX. OF 2400mm

12.PRE-ENGINEERED GUARDS

1070mm HIGH WHERE DISTANCE FROM GRADE TO BOTTOM OF WALKOUT EXCEEDS 1800mm; 900mm FOR LESSER HEIGHTS. MAXIMUM 100mm BETWEEN VERTICAL PICKETS

- 13.LINTELS (FOR MAX. 1200mm OPENINGS)

 - I. SOLID MASONRY: 2- 90mmx90mmx6mm ANGLES 2. BRICK VENEER: I- 90mmx90mmx6mm L + 2-38x184 3. WOOD FRAME/SIDING: 2-38x184

LMCBO STANDARD **DETAILS**

UNDERPINNING

PLAN, ELEVATIONS & NOTES

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.

BOId

MINIMUM ROOM AREAS

APARTMENTS FOR ONE OR TWO PERSONS WHERE SPACE IS NOT PARTITIONED						
REQUIRED SPACE	MINIMUM AREA					
LIVING, DINING, KITCHEN & SLEEPING SPACE	13.5M ² IN TOTAL					
OTH	ER PARTITIONED APARTMENTS					
LIVING AREA	13.5M ²					
LIVING AREA	II.OM 2 IF LIVING AREA IS COMBINED W/ DINING & KITCHEN SPACE					
DINING AREA	7.0M ²					
DINING ARLA	3.25M ² IF DINING AREA IS COMBINED W/ ANOTHER SPACE					
KITCHEN	3.7M ²					
	9.8M ²					
AT LEAST ONE BEDROOM	8.8M2 IF A BUILT IN CLOSET IS PROVIDED					
	4.2M ² IF THE BEDROOM AREA IS COMBINED W/ ANOTHER SPACE					
	7.0M ²					
OTHER BEDROOMS	6.0M2 IF A BUILT IN CLOSET IS PROVIDED					
	4.2M ² IF THE BEDROOM AREA IS COMBINED W/ ANOTHER SPACE					

MINIMUM CEILING HEIGHT SHALL BE NOT LESS THAN 1950mm

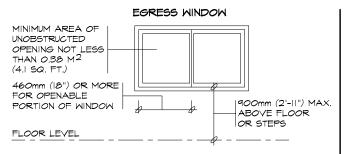
MINIMUM WINDOW AREAS FOR LIGHT

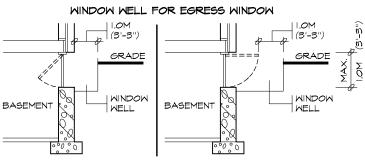
LOCATION	MINIMUM UNOBSTRUCTED GLASS AREA
LAUNDRY ROOM, KITCHEN, WATER CLOSET ROOM	WINDOWS NOT REQUIRED
LIVING/DINING ROOMS	5% OF FLOOR AREA
BEDROOMS AND OTHER FINISHED ROOMS	2 1/2% OF FLOOR AREA

- WHERE A DOOR ON THE SAME LEVEL AS A BEDROOM IS NOT PROVIDED, A WINDOW THAT IS ABLE TO BE OPENED FROM THE INSIDE WITHOUT THE USE OF TOOLS PROVIDING AN INDIVIDUAL UNOBSTRUCTED OPEN PORTION HAVING A MINIMUM AREA OF 0.35M2 WITH NO DIMENSION LESS THAN 380mm SHALL BE PROVIDED. IF THIS WINDOW OPENS INTO A WINDOW WELL, A CLEARANCE OF NOT LESS THAN 550mm SHALL BE PROVIDED IN FRONT OF THE OPERATING SASH.
- NEW OPENINGS IN EXTERIOR WALLS ARE NOT PERMITTED IF THE DISTANCE FROM THE WALL TO AN ADJACENT LOT LINE IS LESS THAN 1200mm

EGRESS REQUIREMENTS

EGRESS PROVIDED FROM APARTMENT	CONDITIONS						
A SEPARATE DOOR LEADING DIRECTLY TO THE EXTERIOR FROM THE ACCESSORY APARTMENT	SMOKE ALARMS IN EACH DWELLING						
A 'SHARED EXIT', SUCH AS A STAIRWAY USED BY BOTH UNITS	I/2 HOUR FIRE SEPARATION AROUND EXIT, AND INTERCONNECTED SMOKE ALARMS IN BOTH UNITS AND ALL COMMON AREAS.						
EGRESS AVAILABLE ONLY THROUGH ANOTHER DWELLING	AN EGRESS WINDOW MUST BE PROVIDED. INTERCONNECTED SMOKE ALARMS MUST BE INSTALLED IN BOTH UNITS, AND ALL COMMON AREAS, OR THE ENTIRE BUILDING MUST BE SPRINKLERED, AND SMOKE ALARMS INSTALLED IN BOTH UNITS.						





SEPARATION BETWEEN UNITS

SEI ARATION BETTEE	
REQUIRED FIRE SEPARATIONS/CLOSURES	CONDITIONS
30 MINUTE FIRE SEPARATION (12.7mm TYPE 'X' GYPSUM BD. CEILING)	SMOKE ALARM IN BOTH UNITS
15 MINUTE HORIZONTAL FIRE SEPARATION	INTERCONNECTED SMOKE ALARMS IN BOTH UNITS AND IN ALL COMMON AREAS
NO FIRE SEPARATIONS	THE ENTIRE BUILDING MUST BE SPRINKLERED
20 MINUTE LABELED DOORS, UNLABELED MINIMUM 45mm THICK SOLID CORE WOOD DOOR OR METAL CLAD	EQUIPPED WITH SELF CLOSERS
UNRATED CLOSURES	THE APARTMENT FLOOR AREA MUST BE SPRINKLERED

SMOKE ALARMS AND CARBON MONOXIDE DETECTORS

REQUIRED SMOKE ALARMS MITHIN EACH DWELLING UNIT BETWEEN THE BED RM. AND REMAINDER OF SUITE AND IN EACH BED RM.	MAY BE BATTERY OPERATED EXCEPT WHERE SMOKE ALARMS ARE REQUIRED TO BE INTERCONNECTED DUE TO SEPARATION BETWEEN UNITS AND EGRESS REQUIREMENTS. ALARMS MUST BE LOCATED ON OR NEAR THE CEILING WITHIN 5M OF BEDROOM DOORS.
REQUIRED CARBON MONOXIDE DETECTORS MITHIN EACH DWELLING UNIT ADJACENT TO EACH SLEEPING AREA	MUST CONFORM TO CAN/CSA-6.19 OR UL 2034, CO DETECTORS MAY BE BATTERY OPERATED OR PLUGGED INTO AN ELECTRICAL OUTLET.
REQUIRED VISUAL DEVICE BY EACH SMOKE ALARM	MUST CONFORM TO 18.5.3 OF NFPA 72 & INTERCONNECTED TO SMOKE ALARMS

PLUMBING, HEATING AND VENTILATION

CENTRAL HEATING SYSTEM	EXISTING SYSTEM MAY SERVE BOTH UNITS PROVIDED 1) BOTH UNITS ARE EQUIPPED WITH SMOKE ALARMS, AND 11) A SMOKE DETECTOR IS INSTALLED IN THE SUPPLY OR RETURN AIR DUCT SYSTEM WHICH WOULD TURN OFF THE FUEL SUPPLY AND ELECTRICAL POWER TO THE HEATING SYSTEM UPON ACTIVATION.			
NATURAL VENTILATION (OPENABLE WINDOWS/DOORS) FOR LIVING/DINING ROOMS, BEDROOMS, KITCHEN	MINIMUM 0.28M2 (35Q. FT.) PER ROOM OR COMBINATION OF ROOMS			
NATURAL VENTILATION (OPENABLE WINDOW) FOR BATHROOMS OR WATER CLOSET ROOMS	MINIMUM 0.09M ² (0.975Q. FT.)			
MECHANICAL VENTILATION, IF NATURAL VENTILATION IS NOT PROVIDED	ONE-HALF AIR CHANGE PER HOUR IF THE ROOM IS MECHANICALLY COOLED IN SUMMER, AND ONE AIR CHANGE PER HOUR IF IT IS NOT.			
REQUIRED PLUMBING FACILITIES				
KITCHEN SINK LAUNDRY FACILITIES	BATHROOM WITH LAVATORY, TOILET AND BATHTUB OR SHOWER STALL			

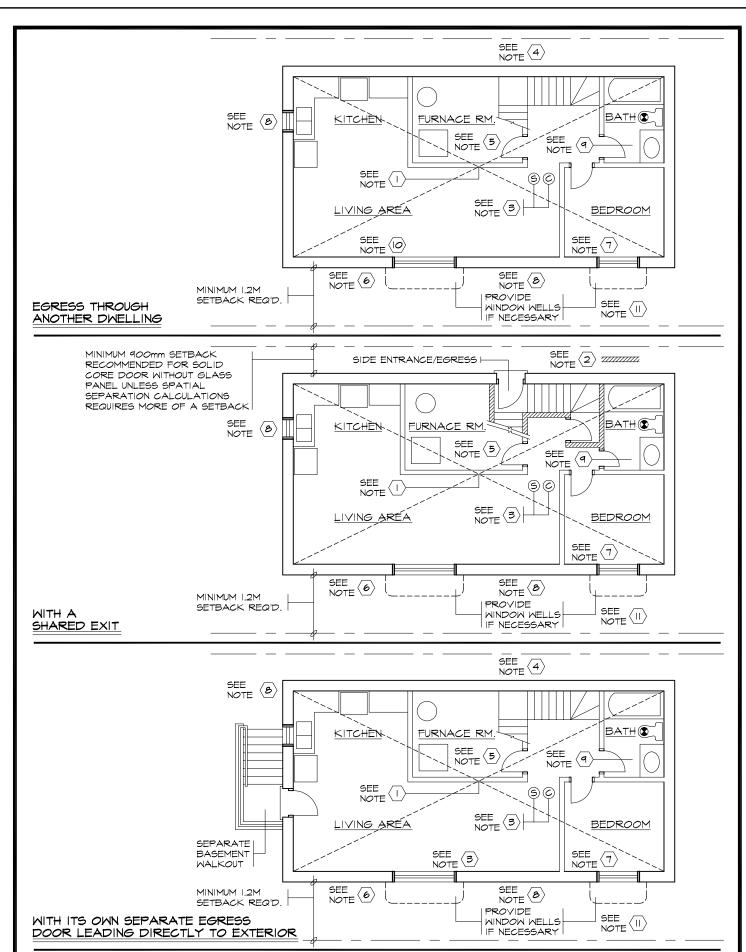
LMCBO STANDARD DETAILS

TITLE BASEMENT ACCESSORY APARTMENT

BUILDING CODE REQUIREMENTS - EXISTING BUILDING 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.

B02a

DWG. NO.



NOTES RELATING TO PLANS ABOVE $\langle \mathsf{I} angle$

- I. MINIMUM 30 MINUTE FIRE SEPARATION UNLESS
 INTERCONNECTED SMOKE ALARMS ARE PROVIDED
 IN BOTH UNITS AND ALL COMMON AREAS, IN WHICH
 CASE, A 15 MINUTE FIRE SEPARATION WOULD ONLY BE
 REQUIRED. INSTALLING SPRINKLERS THROUGHT THE BUILDING
 WOULD WAIVE ALL FIRE SEPARATION REQUIREMENTS.
- 2. MIN. 30 MINUTE FIRE SEPARATION AROUND SHARED EXIT.
- 3. SEE REQUIRED INSTALLATION INFORMATION FOR SMOKE ALARMS & CARBON MONOXIDE DETECTORS ON ATTACHED SHEET BO2a.
- 4. STAIRWELL TO BE ENCLOSED AT TOP MOST, OR AT BOTTOM MOST LEVELS.
- 5. EXISTING FURNACE MAY SERVE BOTH UNITS PROVIDED A SMOKE DETECTOR IS INSTALLED IN THE SUPPLY OR RETURN AIR DUCT SYSTEM WHICH WOULD TURN OFF THE FUEL SUPPLY AND ELECTRICAL POWER TO THE HEATING SYSTEM UPON ACTIVATION OF SUCH DETECTOR.
- 6. MINIMUM 5% OF LIVING/DINING FLOOR AREA OF NATURAL LIGHT (GLASS AREA) TO BE PROVIDED.

- MINIMUM 2 I/2% OF BEDROOM AND OTHER FINISHED ROOMS FLOOR AREAS OF NATURAL LIGHT (GLASS AREA) TO BE PROVIDED.
- 8. 3 SQ. FT. CLEAR OPENING OF NATURAL VENTILATION REQUIRED FOR LIVING/DINING, BEDROOMS & KITCHEN
- 9. I SQ. FT. CLEAR OPENING OF NATURAL VENTILATION REQUIRED FOR BATHROOMS. MECHANICAL VENT PROVIDING I AIR CHANGE PER HOUR IS ACCEPTABLE.
- IO. AN EGRESS WINDOW OR CASEMENT WINDOW, AS DESCRIBED ON ATTACHED SHEET, MUST BE PROVIDED IN THE ACCESSORY APARTMENT. OR, THE ENTIRE BUILDING IS TO BE SPRINKLERED AND SMOKE ALARMS INSTALLED IN BOTH UNITS.
- II. FOR WINDOWS USED AS MEANS OF ESCAPE, WITHIN WINDOW WELLS, SEE ATTACHED SHEET FOR CLEARANCES.
- 12. LAUNDRY FACILITIES SHALL BE PROVIDED IN EACH DWELLING UNIT OR GROUPED IN A LOCATION IN THE BUILDING ACCESSABLE TO OCCUPANTS OF EACH DWELLING UNIT.

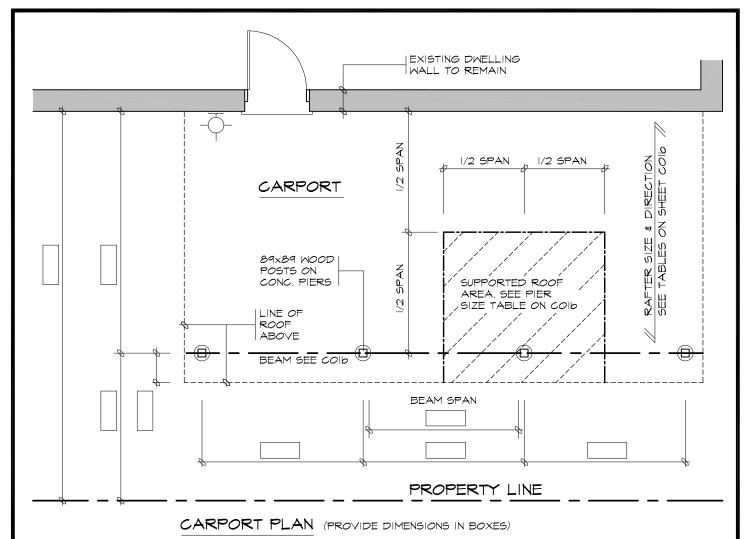
LMCBO STANDARD DETAILS

THE BASEMENT ACCESSORY APARTMENT SAMPLE PLANS AND SPECIFICATIONS

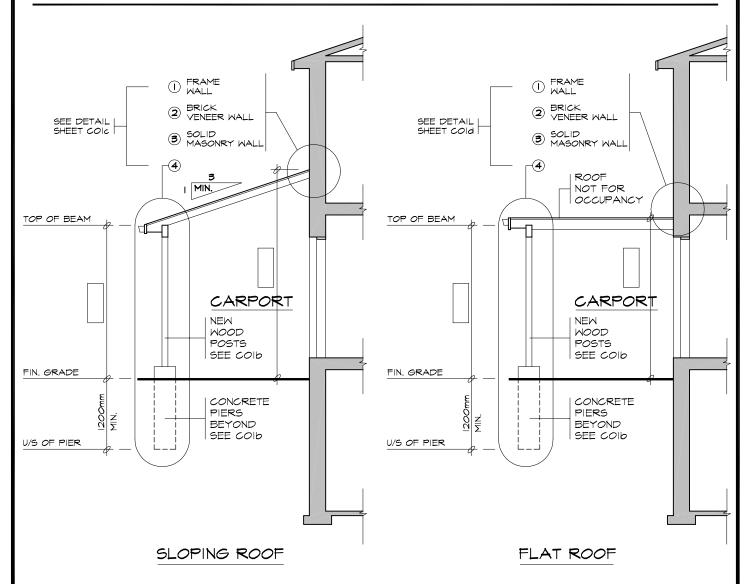
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B02b

DWG. NO.



SEE COID FOR STRUCTURAL SIZES



CARPORT SECTIONS

LMCBO STANDARD DETAILS TITLE

ATTACHED CARPORT SLOPING OR FLAT ROOF PLAN & SECTIONS

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DWG. NO.

COla

ROOF RAFTERS

(WHERE NO CEILING IS INSTALLED)

MAXIMUM CLEAR SPAN (M)							
	ROOF SNO	DW LOAD 1.0	kPa	ROOF SNO	kPa		
RAFTER SIZE	RAFTER S	PACING (mm) 0.0.	RAFTER S	SPACING (mn	n) O.C.	
3,22	305	406	610	305	406	610	
38×89	3.11	2.83	2.47	2.72	2.47	2.16	
38×140	4.90	4.45	3.89	4.28	3.89	3.40	
38×184	6.44	5. <i>8</i> 5	5.11	5.62	5.11	4.41	
38×235	8.22	7.47	6.38	7.18	6.52	5.39	

ROOF JOISTS

(WHERE CEILING IS INSTALLED)

MAXIMUM CLEAR SPAN (M)							
	ROOF SNO	N LOAD 1.0	kPa	ROOF SNO	kPa		
JOIST SIZE	JOIST SPA	JOIST SPACING (mm) O.C. JOIST SPAC		. JOIST SPACING (mm) O.C.		0.C.	
J	305	406	610	305	406	610	
38×89	2.47	2.24	1.96	2.16	1.96	1.71	
38×140	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	
38×235	6.52	5.93	5.18	5.70	5.18	4.52	

ROOFING

B	E	4	M	5

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

MAXIMUM CLEAR SPAN (M)	MINIMUM BEAM SIZE	
ROOF SNO		
1.0kPa	1.5kPa	
2.35	2.02	2 - 38x184
2.88	2.47	2 - 38×235
3.34	2.87	2 - 38×286

PIERS

		SUPPORTED ROOF AREA (M2)					
PIER	ROOF SNO	W LOAD 1.0k	Pa	ROOF SNOW LOAD 1.5kPa			
SIZE (mm)	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	MAX.	SUPPORTED ROOF AREA (M2)					
SIZE (mm)	HEIGHT		ROOF SN	OW LOAD (k	(Pa)		
(SEE NOTE 5)	(M)	1.0	1.5	2.0	2.5	3.0	
	1.0	17.19	12.98	10.43	8.71	7.48	
89×89	1.5	9.39	7.09	5.69	4.76	4.09	
	2.0	4.98	3.76	3.02	2.53	2.17	
	2.0	21.65	16.35	13.13	10.98	9.43	
140×140	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

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

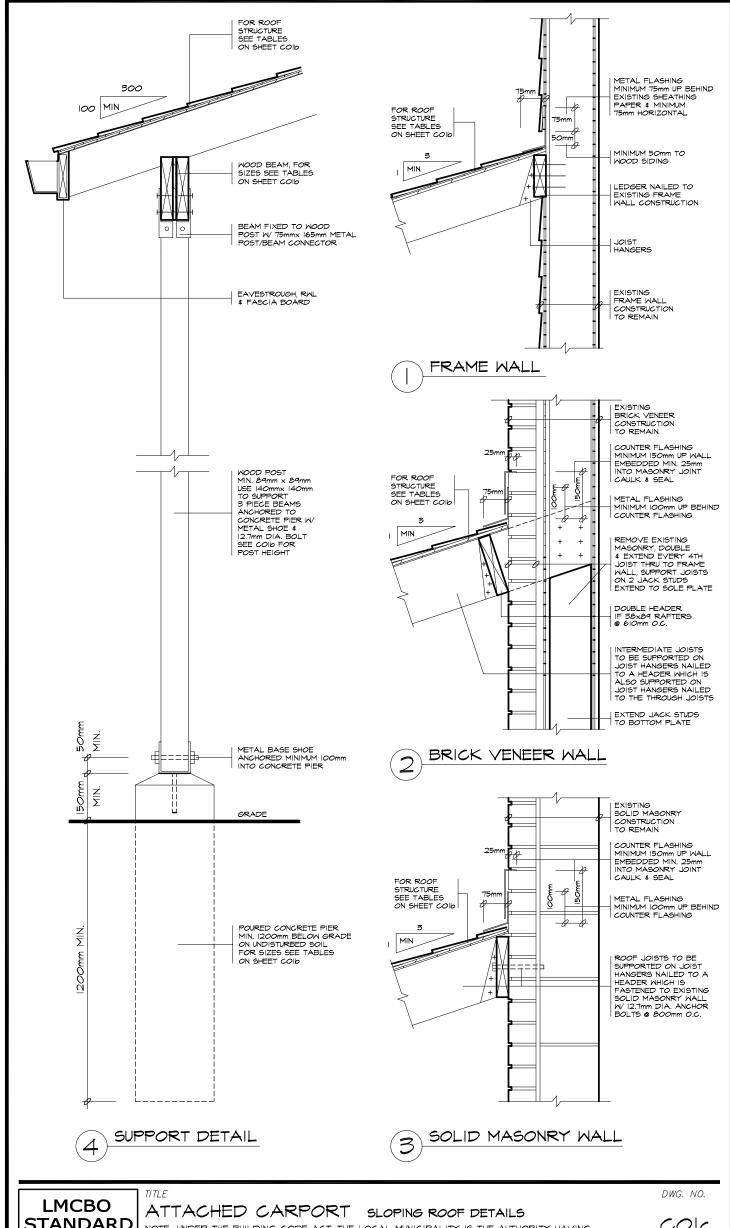
LMCBO STANDARD DETAILS

ATTACHED CARPORT SLOPING OR FLAT ROOFS, TABLES & NOTES

COID

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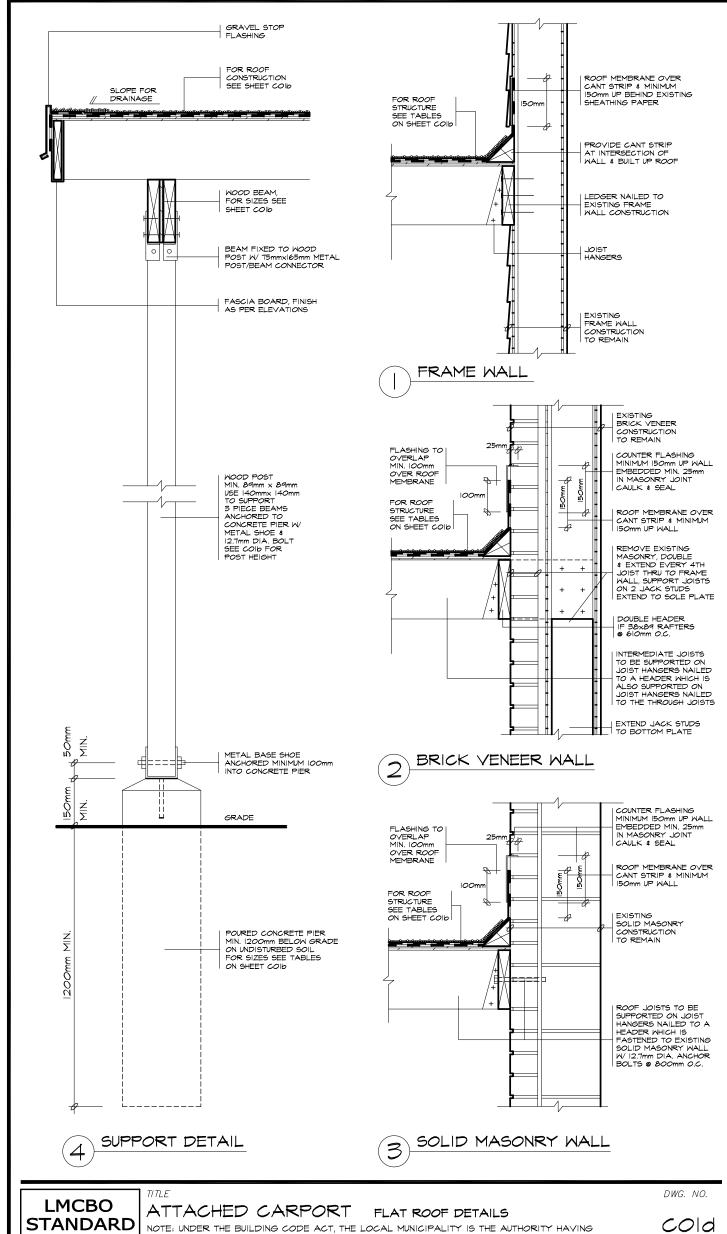
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STANDARD DETAILS

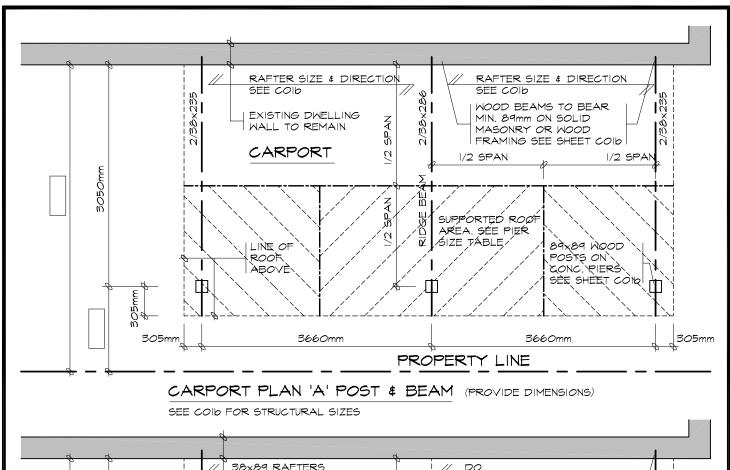
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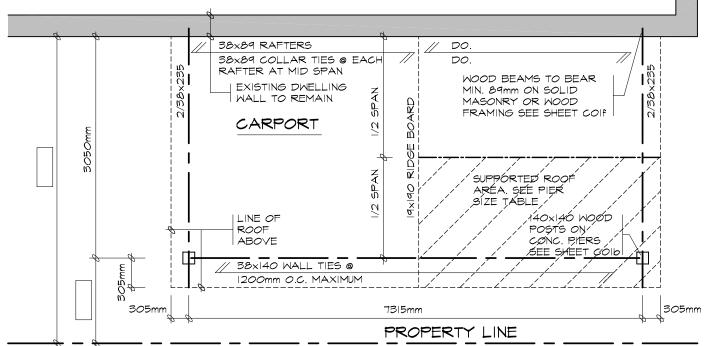
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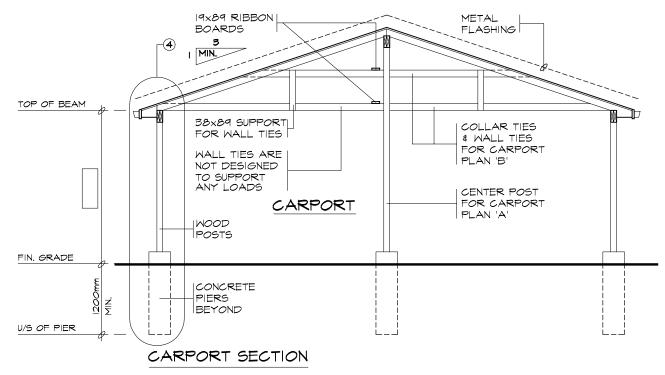
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CARPORT PLAN 'B' CONVENTIONAL FRAMING (PROVIDE DIMENSIONS)

SEE COID FOR STRUCTURAL SIZES



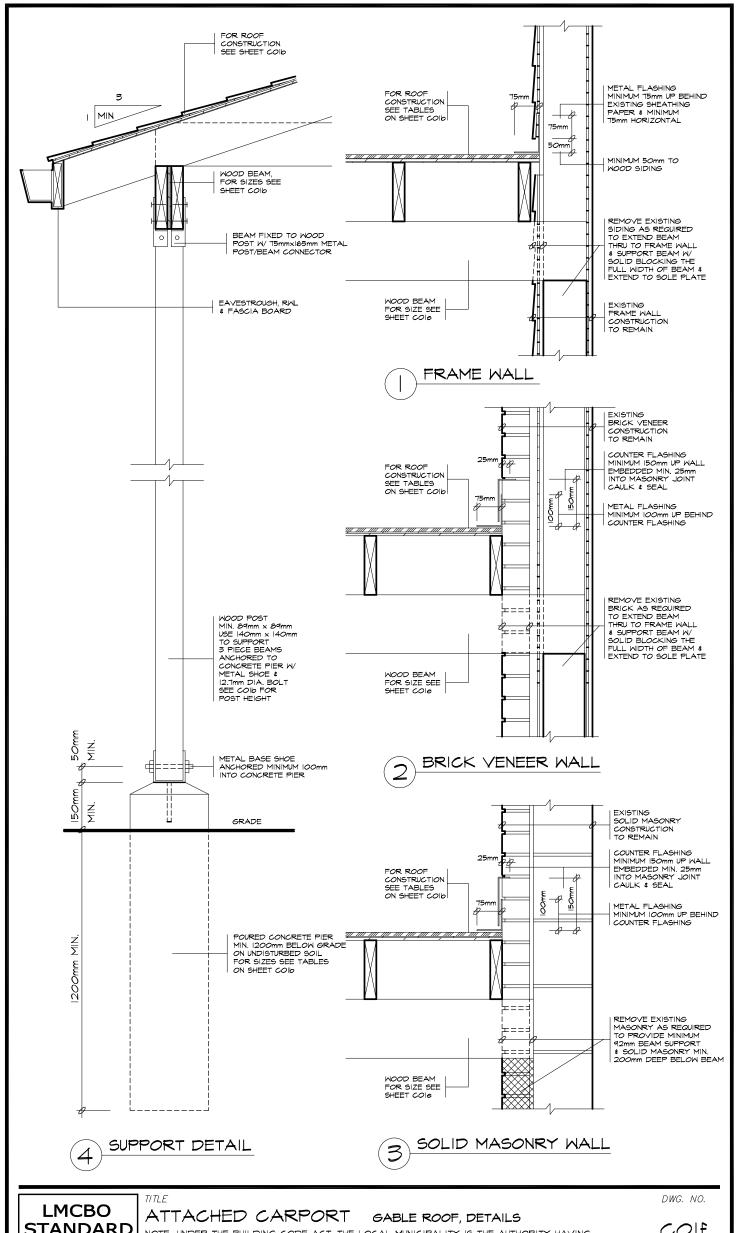
LMCBO STANDARD DETAILS TITLE

ATTACHED CARPORT GABLE ROOF, PLAN & SECTION

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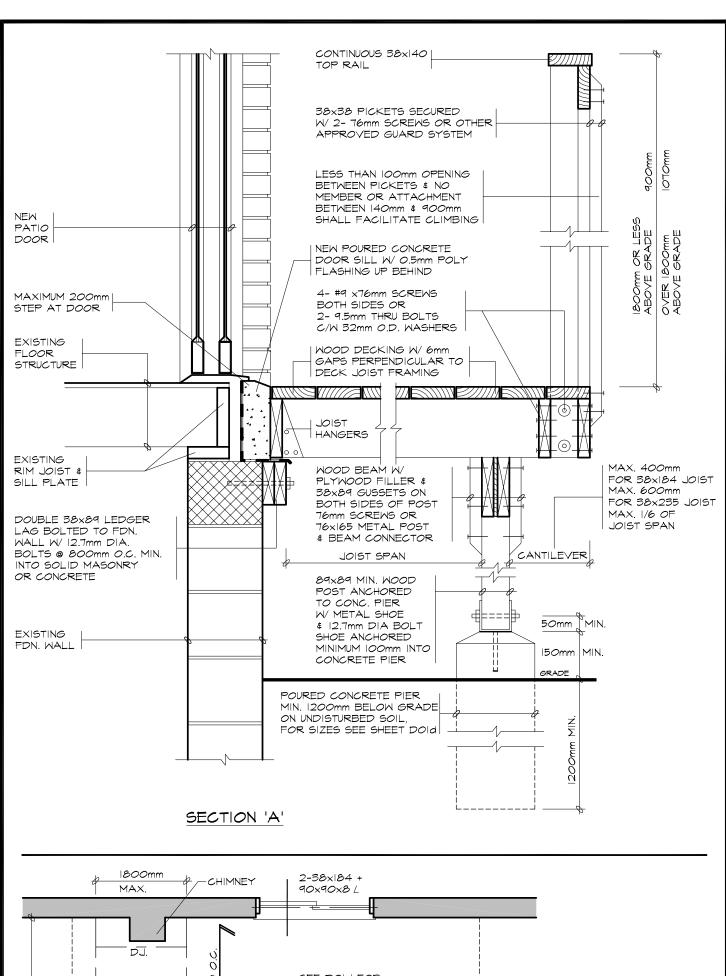
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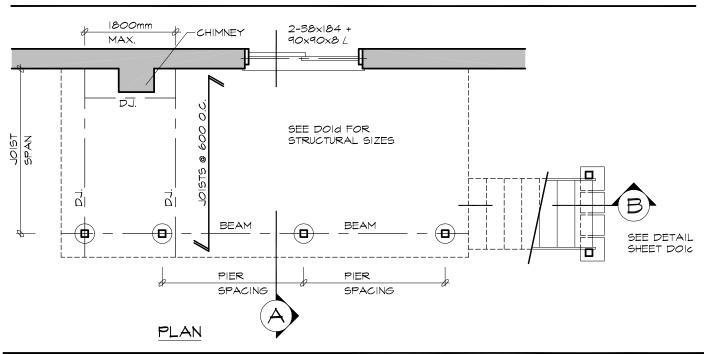


STANDARD DETAILS

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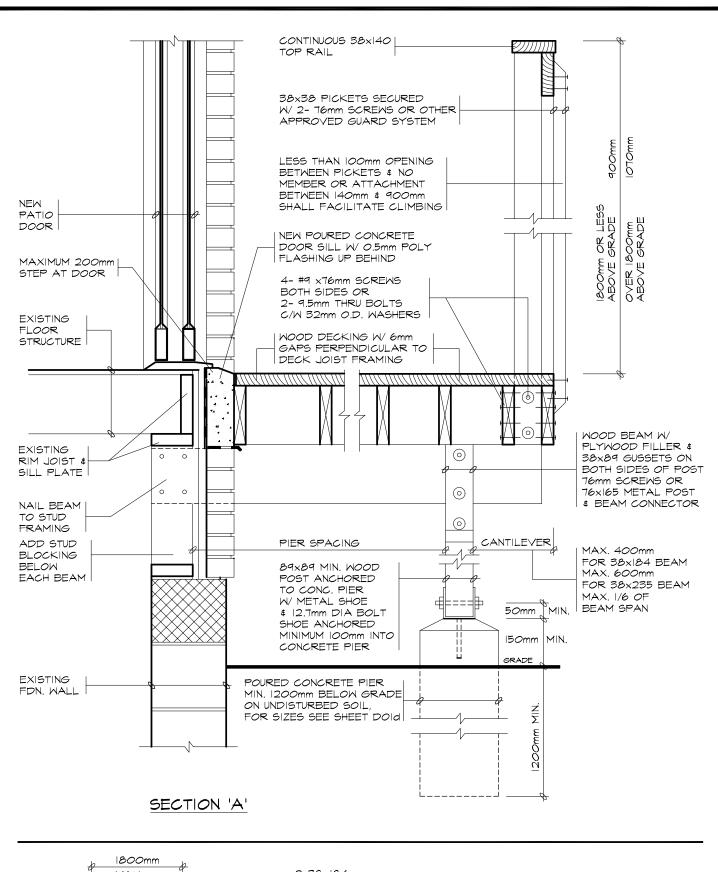
TITLE WOOD DECK

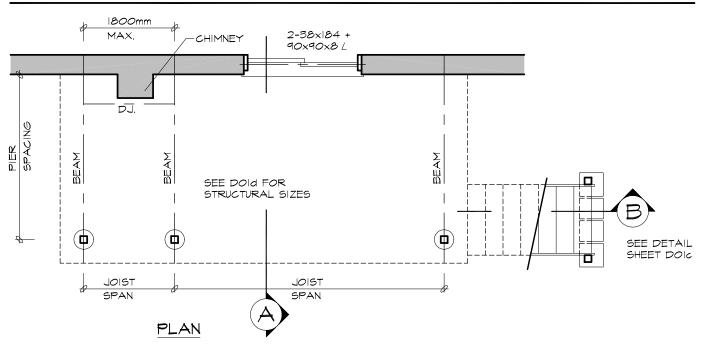
FIXED TO SOLID MASONRY FOUNDATION WALL PLAN & SECTION

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DWG. NO.

DOla





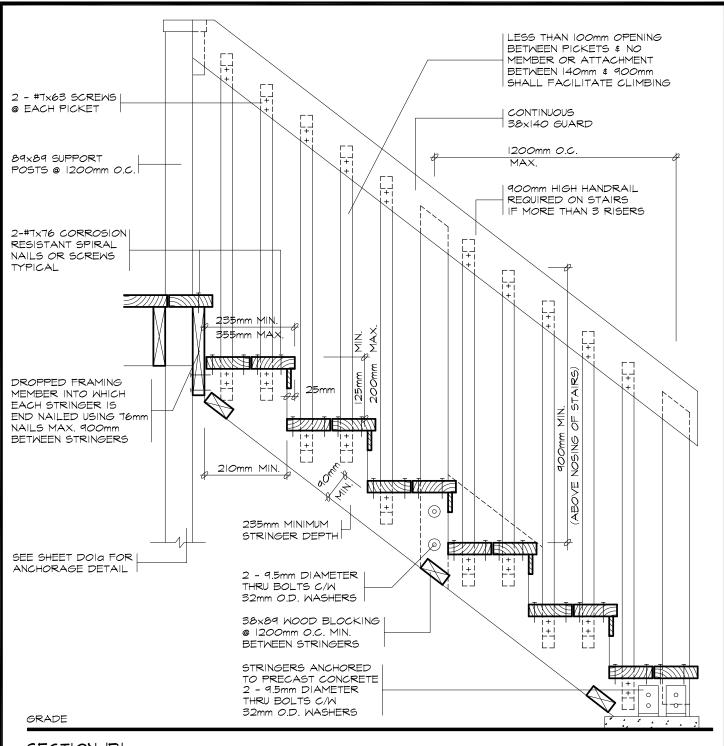
TITLE WOOD DECK

FIXED TO BRICK VENEER \$ WOOD FRAMING PLAN \$ SECTION

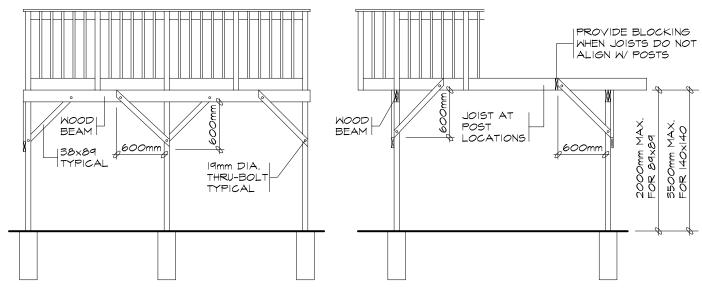
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DWG. NO.

DOID



SECTION 'B'



BRACING PARALLEL TO BEAM

BRACING PERPENDICULAR TO BEAM

FREE STANDING DECKS GREATER THAN 600mm ABOVE GRADE SHALL RESIST LATERAL LOADING & MOVEMENT. ALL POSTS MUST BE BRACED WHERE THE SUPPORTED AREA EXCEEDS THOSE LISTED IN THE TABLE ON DOID

LMCBO STANDARD DETAILS

TITLE WOOD DECK

STAIR SECTION

LATERAL SUPPORT FOR FREE STANDING DECKS

DWG. NO.

2012

DOIC

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.

	BEAM SIZING TABLE								
SUPPORTED	LIVE	LOAD 1.9 KF	Pa	LIVE	LOAD 2.5 k	Pa	LIVE LOAD 3.0 kPa		
JOIST LENGTH	PIER	R SPACING (mm)		PIER	PIER SPACING (mm)		PIER	SPACING (m	nm)
(mm)	2000	3000	4000	2000	3000	4000	2000	3000	4000
1500	2/38×140	2/38x184	3/38×235	2/38×140	3/38×184	3/38×235	3/38×140	2/38×235	2/38×286
2000	2/38×140	3/38×184	3/38×235	2/38×184	2/38×235	3/38×286	2/38×184	2/38×235	3/38×286
2500	2/38×184	2/38×235	3/38×286	2/38×184	3/38×235	3/38×286	2/38x184	3/38×235	4/38×286
3000	2/38×184	2/38×235	3/38×286	2/38×184	3/38×235	4/38×286	2/38×184	3/38×235	4/38×286
3500	2/38×184	3/38×235	3/38×286	2/38×184	3/38×235	4/38×286	3/38×184	3/38×286	N/A
4000	2/38×184	3/38×235	4/38×286	2/38×184	3/38×286	N/A	3/38×184	3/38×286	N/A

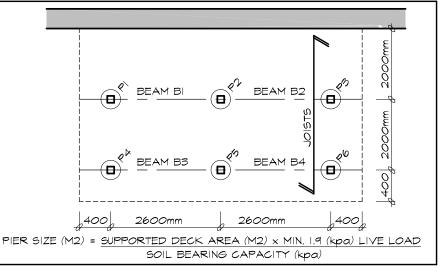
	JOIST SIZING TABLE								
	LIVE LOAD 1.9 kPa			LIVE	LOAD 2.5 k	Pa	LIVE LOAD 3.0 kPa		
JOIST SPAN	J015	IST SPACING (mm)		JOIST SPACING (mm)		90E	T SPACING (mm)	
(mm)	305	406	610	305	406	610	3 <i>0</i> 5	406	60
2000	38×140	38×140	38×140	38×140	38×140	38×140	38×140	38×140	38×140
2500	38×140	38×140	38×184	38×140	38×140	38×184	38×140	38x184	38×184
3000	38×140	38×184	38×184	38×184	38×184	38×235	38×184	38×184	38×235
3500	38×184	38×184	38×235	38×184	38×235	38×235	38×235	38×235	38×235
4000	38×235	38×235	38×286	38×235	38×235	38×286	38×235	38×235	38×286

FOOTING SIZES					
SOIL BEARING CAPACITIES (kPa)					
SOIL TYPE	BEARING PRESSURE (kPa)				
SOFT CLAY	40				
LOOSE SAND OR GRAVEL	50				
FIRM CLAY	75				
DENSE OR COMPACT SILT	100				
STIFF CLAY	150				
DENSE COMPACT SAND OR GRAVEL	150				
TILL	200				
CLAY SHALE	300				
SOUND ROCK	500				

PIER SIZES					
DIAMETER (mm)	n Y				
200	0.03				
25 <i>0</i>	0.05				
300	0.08				
350	0.10				
400	0.13				
500	0.20				
600	0.30				

POST SIZING TABLE MAX. SUPPORTED DECK AREA (Most in the light (Ms)) 1.9		Ð/								
POST SIZE (mm) MAXIMUM HEIGHT (M) LIVE LOAD (kPa) 1.9 2.5 3.0 1.0 10.86 8.71 7.48 89x89 1.5 5.93 4.76 4.09		POST SIZING TABLE								
SIZE (mm) HEIGHT (M) LIVE LOAD (kPa) 1.9 2.5 3.0 1.0 10.86 8.71 7.48 89x89 1.5 5.93 4.76 4.09		OST MAYIMIM	MAX. SUPPO	ORTED DECK	(AREA (M2)					
1.9 2.5 3.0 1.0 10.86 8.71 7.48 89x89 1.5 5.93 4.76 4.09		IZE HEIGHT	LI	VE LOAD (KF	°a)					
89×89 1.5 5.93 4.76 4.09	(mm)	nm) (M)	1.9	2.5	3.0					
		1.0	10.86	8.71	7.48					
2.0 3.15 2.53 2.17	89×89	1×89 1.5	5.93	4.76	4.09					
		2.0	3.15	2.53	2.17					
2.0 13.67 10.98 9.43		2.0	13.67	10.98	9.43					
140x140 2.5 9.32 7.48 6.43	140×140	2.5	9.32	7.48	6.43					
3.0 6.35 5.10 4.38	1 10 21-10		6.35	5.10	4.38					
3.5 4.41 3.54 3.04		3.5	4.4	3.54	3.04					

EXAMPLE PLAN	PIERS	SUPPORTED DECK AREA					
	<u>1</u>	2 × 1.7 = 3.4m ²					
	P2	2 × 2.6 = 5.2m ²					
	P3	$2 \times 1.7 = 3.4 \text{m}^2$					
	P 4	$1.4 \times 1.7 = 2.4 \text{m}^2$					
	Þ	$1.4 \times 2.6 = 3.6 \text{m}^2$					
	P6	$1.4 \times 1.7 = 2.4$ m ²					
	BEAMS	SUPPORTED JOIST LENGTH					
	m	2000mm					
	B2	2000mm					
	B3	1400mm					
	B4	14 <i>00</i> mm					
	BEAM SPAN = 2600mm						
	JOIST	SPAN = 2000mm					
		·					



GENERAL NOTES

- I. A MINIMUM LIVE LOAD OF 1.9 (kPa) SHALL BE APPLIED IN ALL LOCATIONS.
- 2. THE PRESCRIBED SNOW LOAD FOR 225 SELECTED ONTARIO LOCATIONS IS INDICATED IN COLUMN 12 OF TABLE 1.2 IN SUPPLEMENTARY GUIDELINE SB-I OF THE ONTARIO BUILDING CODE. THE SNOW LOAD SHALL BE APPLIED AS THE MINIMUM LIVE LOAD WHERE IT IS GREATER THAN 1.9 (kPa)
- 3. A SITE PLAN OR SURVEY IS REQUIRED SHOWING ALL LOT LINES & DIMENSIONS, SIZE & LOCATION OF ALL EXISTING BUILDINGS & DECKS.
- 4. LUMBER NO. 2 SPF OR BETTER WOOD POSTS MIN. 89x89 (SOLID).
 USE CORROSION RESISTANT SPIRAL NAILS OR SCREWS.
- 5. A DECK IS NOT PERMITTED TO BE SUPPORTED ON BRICK VENEER.
- 6. CANTILEVERED JOISTS AND BEAMS ARE LIMITED TO 1/6 THE MEMBERS LENGTH.
- CONCRETE PIERS SHALL BEAR ON UNDISTURBED SOIL. THE BEARING CAPACITY OF THE SOIL SHALL BE DETERMINED PRIOR TO CONSTRUCTION.
- 8. MAXIMUM HEIGHT REFERS TO THE HEIGHT OF THE POST FROM THE TOP OF THE PIER TO THE DECK SURFACE.
- 9. BEAMS WITH MORE THAN 2 MEMBERS MUST BE SUPPORTED
- IO. THE ALLOWABLE SOIL BEARING PRESSURE SHALL BE REDUCED BY 50% WHILE THE WATER IS AT OR NEAR THE BOTTOM OF THE FOOTING EXCAVATION.
- II. CONTACT YOUR LOCAL BUILDING DEPARTMENT FOR FURTHER INFORMATION ABOUT LOCAL SOIL BEARING CAPACITIES.
- 12. JOISTS SPANNING MORE THAN 2100mm ARE TO HAVE BRIDGING AT LEAST EVERY 2100mm O.C.,

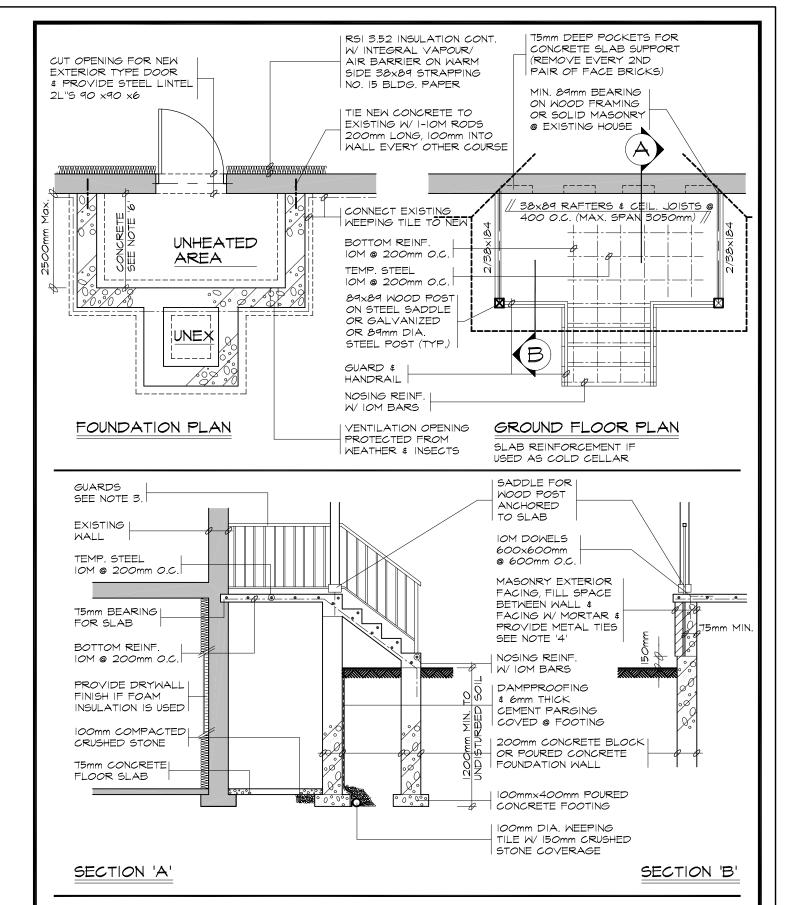
LMCBO STANDARD DETAILS TITLE

WOOD DECK STRUCTURAL SIZING TABLES

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GENERAL NOTES

I. EXTERIOR STAIRS

125mm - 200mm RISE 210mm - 355mm RUN 235mm - 355mm TREAD STEPS ARE TO BE UNIFORM THROUGHOUT FLIGHT

2. HANDRAILS

ARE REQUIRED WHERE STEPS HAVE MORE THAN 3 RISERS. HANDRAIL HEIGHT 865mm - 965mm

3. <u>GUARDS</u>

ARE REQUIRED AROUND CONCRETE
SLAB IF MORE THAN 600mm ABOVE
GRADE & ON BOTH SIDES OF STAIRS
MINIMUM 900mm HIGH FOR STAIRS
MINIMUM 900mm HIGH FOR PORCHES
UP TO 1800mm ABOVE GRADE.
MINIMUM 1070mm HIGH FOR GREATER HTS.
MAXIMUM 100mm BETWEEN PICKETS AND
NO MEMBER DESIGNED TO FACILITATE
CLIMBING BETWEEN 140mm & 900mm

4. MASONRY TIES

WHEN BRICK FACING IS USED ABOVE GROUND LEVEL, PROVIDE O.76mm THICK \$ 22mm WIDE CORROSION RESISTANT METAL TIES @ 600mm HORIZ. \$ 500mm VERTICAL

5. $\underline{\text{FOUNDATION WALLS}}$ (LESS THAN 3M IN HEIGHT)

THICKNESS OF UNREINFORCED FOUNDATION WALLS LATERALLY SUPPORTED AT THE TOP ARE DEPENDANT UPON HEIGHT OF FINISH GRADE ABOVE BASEMENT FLOOR

UNIT MASONRY THICKNESS 190mm - MAX. HEIGHT 1200mm UNIT MASONRY THICKNESS 240mm - MAX. HEIGHT 1800mm UNIT MASONRY THICKNESS 290mm - MAX. HEIGHT 2200mm

6. CONCRETE

MINIMUM CONCRETE STRENGTH SHALL BE 32Mpa W/ 5%-8% AIR ENTRAINMENT CONCRETE SLAB THICKNESS 125mm PROVIDE MIN. 30mm CLEAR CONCRETE COVER TO REINFORCING BARS

LMCBO STANDARD DETAILS

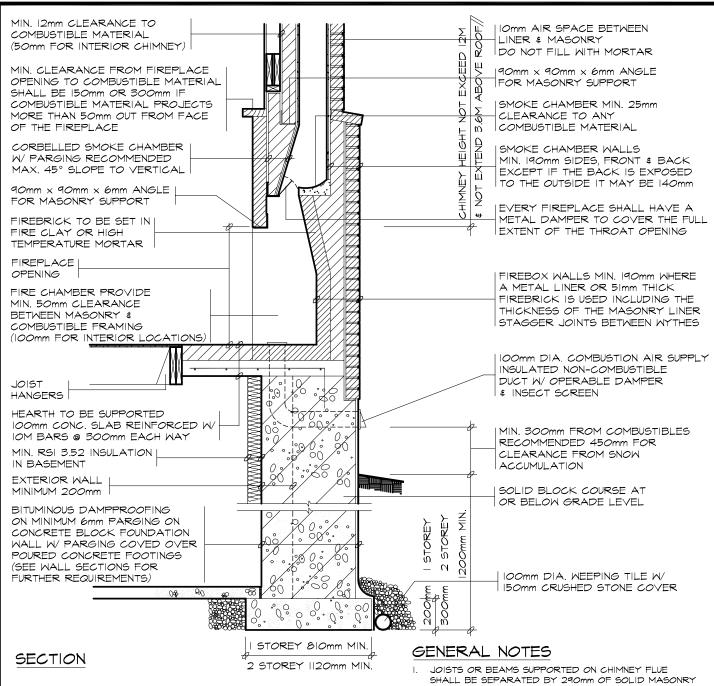
PLANS, SECTIONS & NOTES

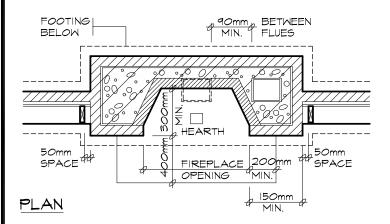
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- MAXIMUM ANGLE OF SLOPE FOR SMOKE CHAMBER IS 45° FROM VERTICAL
- COMBUSTIBLE FLOORING, SUB FLOORING & CEILING FINISHES SHALL HAVE A MINIMUM 12mm CLEARANCE TO MASONRY CHIMNEY.
- EXCEPT AS REQUIRED IN SENTENCE (2) FIREPLACES SHALL HAVE A NONCOMBUSTIBLE HEARTH EXTENDING
 NOT LESS THAN 400mm IN FRONT OF THE FIREPLACE
 OPENING MEASURED FROM THE FACING & NOT LESS THAN 200mm BEYOND EACH SIDE OF THE FIREPLACE OPENING
- 6. WHERE THE HEARTH IS ELEVATED MORE THAN ISOMM ABOVE THE HEARTH EXTENSION. THE WIDTH OF THE HEARTH EXTENSION SHALL BE INCREASED BY:

 (A) 50mm FOR AN ELEVATION ABOVE 150mm & NOT

 - MORE THAN 300mm &
 AN ADDITIONAL 25mm FOR EVERY 50mm IN
 ELEVATION ABOVE 300mm
- INSTALL A CARBON MONOXIDE DETECTOR CONFORMING TO CAN/CGA-6.19 OR UL 2034 ADJACENT TO EACH SLEEPING AREA
- 8. PROVIDE FIRESTOPPING BETWEEN FLOOR, CEILING LEVELS AND CHIMNEY

	CHIMNEY HEIGHT (M)									
FIREPLACE	3.0 - 4.5		×4.5 - 5.9		>5.9 - 8.9		>8.9 - I2.O			
OPENING (M2)	FLUE SIZES (mm)									
(1*12/	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.		
UP TO 0.15	200×200	200×200	100×200	100×200	100×200	100×200	100×200	100×200		
0.151 - 0.250	200×200	200×200	200×200	200×200	200×200	200×200	200×200	200×200		
0.251 - 0.350	200x300	200×300	200×200	200x300	200×200	200×200	200×200	200×200		
0.351 - 0.500	300×300	300×300	200×300	200×300	200×300	200×300	200×200	200×300		
0.501 - 0.650	300×300	300×400	300×300	300x300	300×300	300x300	200×300	200×300		
0.651 - 0.800	300×400	300×400	300×300	300×400	300x300	300x300	300×300	300×300		
0.801 - 1.00	400×400	400×400	300×400	300×400	300×400	300×400	300×300	300×300		
1.01 - 1.20	400×400	400×400	400×400	400×400	300×400	300×400	300×400	300×400		
1.21 - 1.40			400×400	400×400	400×400	400×400	300×400	300×400		
1.41 - 1.60					400×400	400×400	400×400	400×400		
1.61 - 1.80							400×400	400×400		
1.81 - 2.00							400×400	400×400		
COLUMN 1.	2.	3.	4.	5.	6.	٦.	8.	٩.		

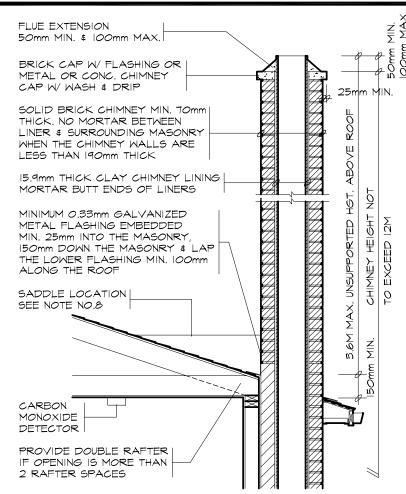
MASONRY FIREPLACE

PLAN & SECTION

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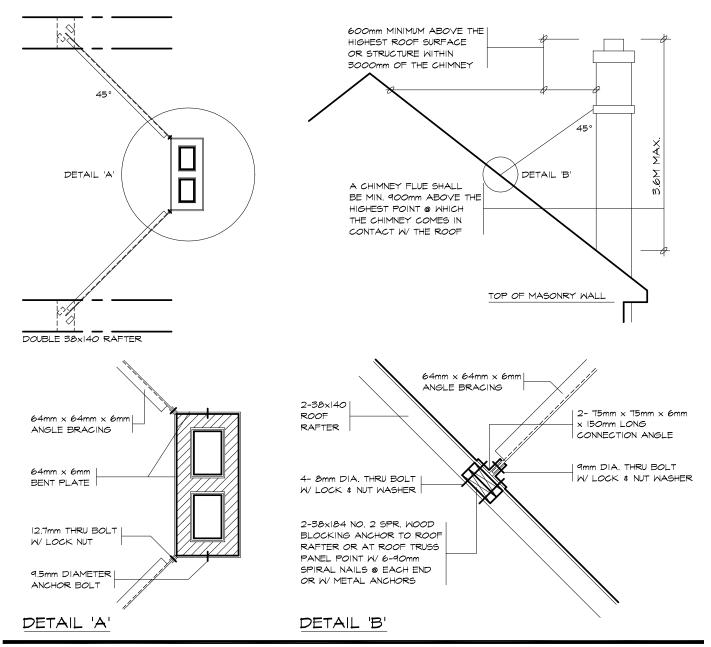


 $\stackrel{\times}{\overset{\times}{\overset{}_{\Sigma}}} \stackrel{\times}{\overset{}_{\Sigma}}$ GENERAL NOTES

- I. ALL STRUCTURAL STEEL SHALL BE 300W GRADE ALL BOLTS SHALL BE A-30T GRADE OR SAE STANDARD GRADE I W/ MINIMUM TENSILE STRENGTH OF 414 MPa. ALL EXPOSED STEEL & FASTENERS SHALL BE GALVANIZED OR PAINTED WITH 2 COATS OF ZINK-RICH PAINT
- 2. ALL TIMBER SHALL BE MIN. SPRUCE NO. 2 GRADE.
- 3. ROOF RAFTERS TO BE 38x140 NO. 2 SPR. @ 400mm O.C. W/ A MAXIMUM SPAN OF 3900mm. FOR OTHER ROOF RAFTER CONSTRUCTION, ROOF REINFORCEMENT SHALL BE DESIGNED BY A STRUCTURAL ENGINEER
- 4. FOR HOUSE W/ ROOF TRUSS STRUCTURE, TRUSS DESIGN ENGINEER TO DESIGN FOR A MINIMUM ADDITIONAL UNFACTORED CHIMNEY BRACE LOAD OF 4.2KN
- 5. BASIC HOURLY WIND PRESSURE q= 0.52 kPa. DESIGN ROOF SNOW LOAD = 1.5 kPa.
- 6. CHIMNEYS W/ MORE THAN DOUBLE FLUE AND/OR EXTENDED MORE THAN 4.40M ABOVE ROOF SHALL BE DESIGNED BY A STRUCTURAL ENGINEER.
- 7. CHIMNEY BRACES EXCEEDING 2500mm IN LENGTH SHALL BE DESIGNED BY A STRUCTURAL ENGINEER.
- 8. SADDLE NOT REQUIRED IF FLASHING USED THAT EXTENDS UP THE CHIMNEY TO HEIGHT EQUAL TO NOT LESS THAN 1/6 THE WIDTH OF THE CHIMNEY BUT NOT LESS THAN 150mm UP THE ROOF SLOPE TO A POINT EQUAL IN HEIGHT TO THE FLASHING ON THE CHIMNEY, BUT NOT LESS THAN 1 1/2 TIMES THE HINGLE EXPOSURE. PROVIDE COUNTERFLASHING AT THE CHIMNEY.

SECTION

LATERAL BRACING FOR CHIMNEYS EXTENDING MORE THAN 3.6M ABOVE ROOF



LMCBO STANDARD **DETAILS**

MASONRY FIREPLACE DETAILS

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