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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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 IO to 15 business days if your drawings are complete and the proposed construction meets local zoning standards and the Ontario Bullding 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 consplcuous 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 SAFELYI



TITLE

BUILDING PERMIT Q # A

DWG. NO.



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, \sharp 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

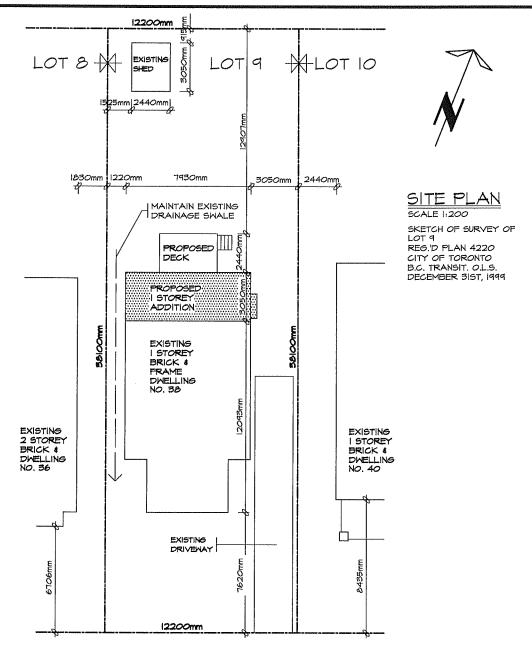
Some aspects of the project may require some specific details, such as engineered roof truss drawings. An inventory of standard construction details is available from your local municipal office, which can be used to augment your plans.



TITLE

DRAWING REQUIREMENTS FOR A RESIDENTIAL ADDITION DWG. NO.

A02



KHALMUR CRESCENT

ZONING R2 ZO.6	LOT NO:		PLAN NO: 4220	L	OT AREA 580.6	dm ²	LOT FRONTAG	E 200mm	LOT DEPTH 38110mm
DESCRIPTION	EXISTING	ADDITION	TOTAL	*	ALLOWED	*****	SETBACKS	EXISTI	
LOT COVERAGE	86.52m2	24.15m2	IIO.65m2	19.0			FRONT YARD	7620mr	n 7620mm
GROSS FLOOR AREA	86.52m2	24. 5m2	110.65m2	19.0	348.39m2	60.0	1		
LANDSCAPED AREA		***			******	1	YARD	18390m	m 129 <i>0</i> 7mm
NO. OF STORIES HEIGHT	I STOREY 4550mm	I STOREY 4550mm	I STOREY 4550mm	L	10000mm	-l	INTERIOR SIDE (east)	3050m	m 3050mm
MIDTH	793 <i>0</i> mm	7930mm	7930mm		~~~~		INTERIOR		
DEPTH	12095mm	5050mm	15143mm		17000mm		SIDE (west)	1220mm	1220mm
PARKING		***************************************					EXTERIOR		

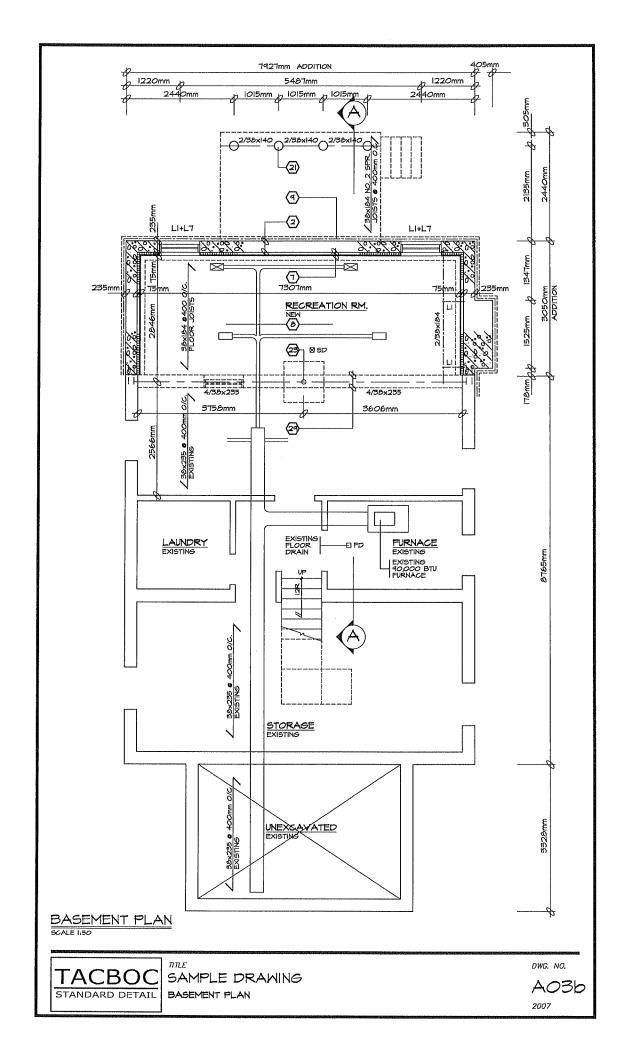
NOTE: ZONING RESTRICTIONS VARY IN EVERY MUNICIPALITY. CONTACT YOUR LOCAL MUNICIPAL OFFICE FOR SPECIFIC SETBACKS AND OTHER LIMITATIONS IN YOUR AREA.

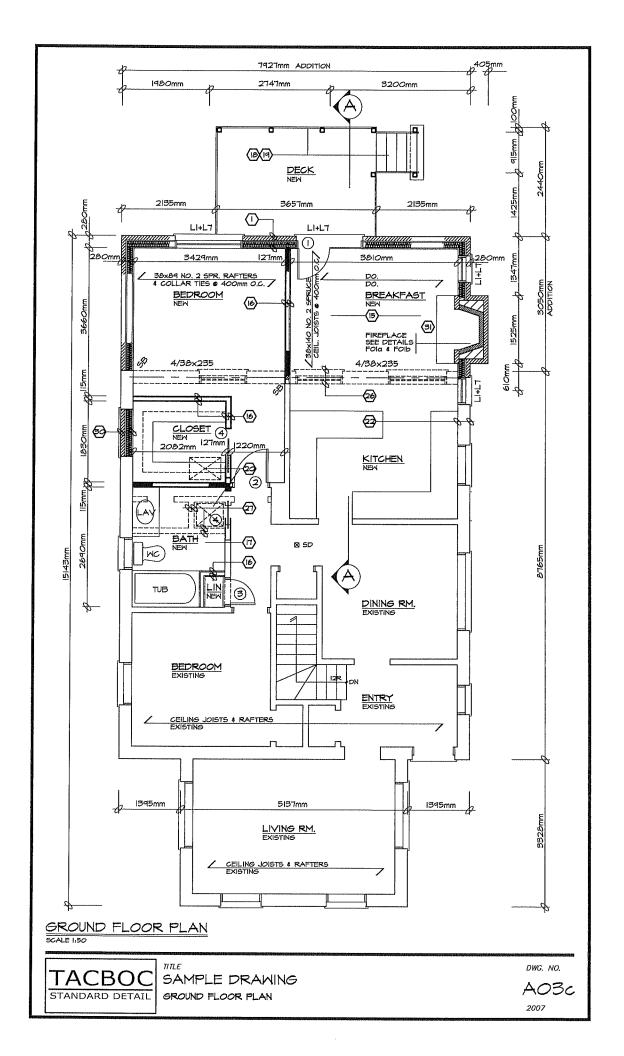


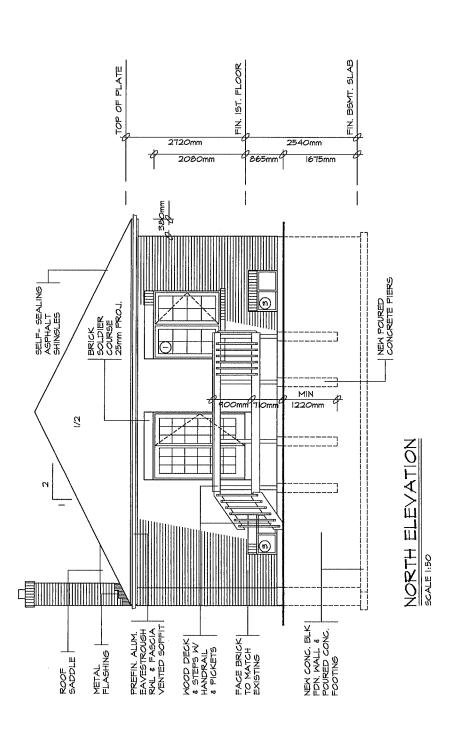
SAMPLE DRAWING

DWG. NO.

A03a



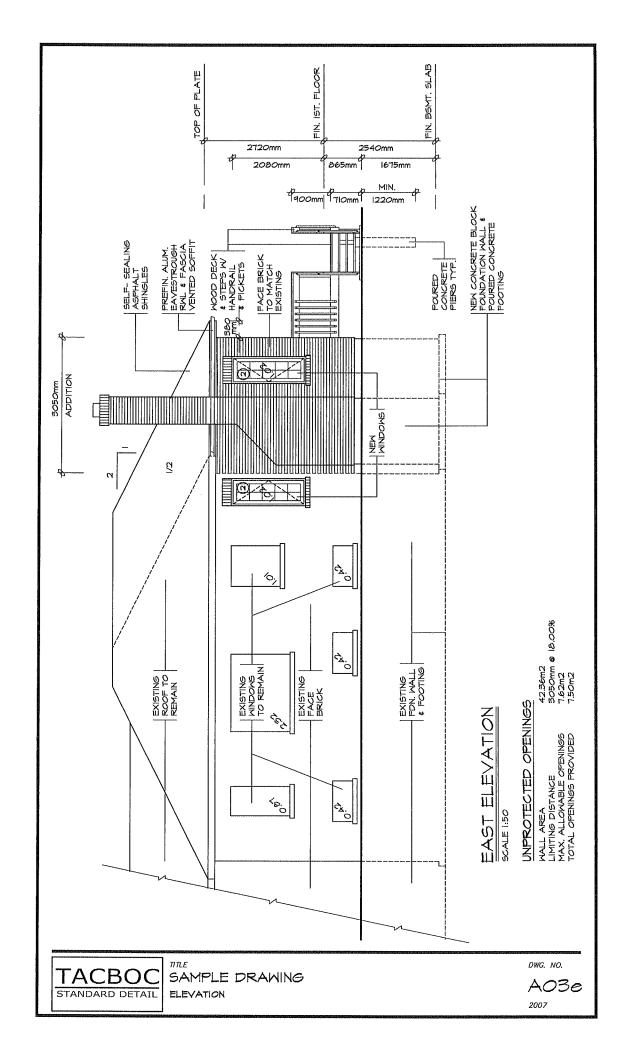


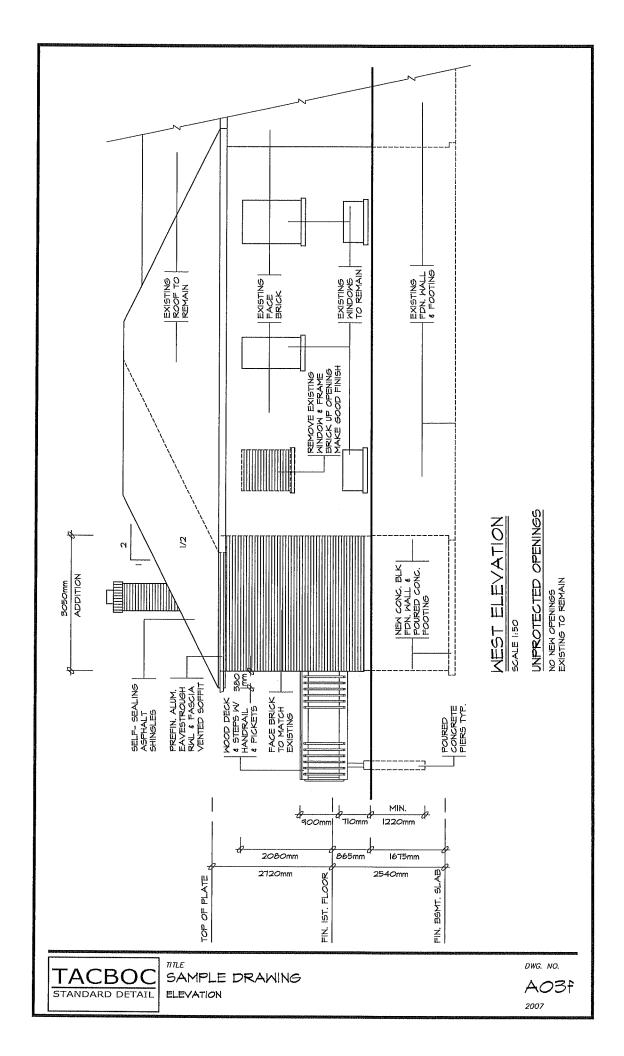


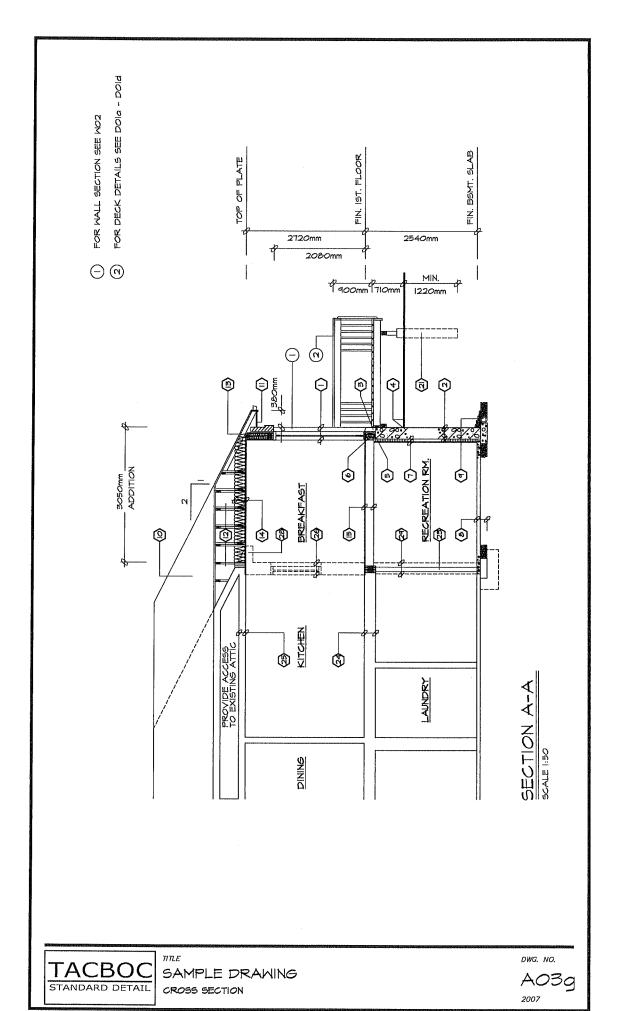
TACBOC STANDARD DETAIL SAMPLE DRAWING ELEVATION

DWG. NO.

A03d







CONSTRUCTION SPECIFICATIONS

(I)BRICK VENEER WALL

90mm FACE BRICK, 25mm AIR SPACE 0.76mm THICK x 22mm WIDE GALVANIZED METAL TIES INSTALLED W GALVANIZED SPIRAL NAILS OR SCREWS SPIRAL NAILS OR SCRENS
400mm O.C. HORIZ., 600mm O.C. VERT.
AIR BARRIER, LAYERS
TO OVERLAP EACH OTHER
EXTERIOR TYPE SHEATHING
38x140 WOOD STUDS @ 400mm O.C.
RSI 3.34 BATT INSUL. IN CONTINUOUS
CONTACT W EXTERIOR SHEATHING
CONTINUOUS AIR / VAPOUR BARRIER
IZ.1mm INTERIOR DRYWALL FINISH
DOUBLE PLATE @ TOP
SOLE PLATE @ BOTTOM

(2) FOUNDATION WALL

BITUMINOUS DAMPPROOFING ON MINIMUM 6mm PARGING ON CONCRETE BLOCK FDN. 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, I9mm MINERAL FIBRE - MIN. I9mm MINERAL FIBRE INSULATION W/ A DENSITY OF NOT LESS THAN 57kg/m3. OR - MIN. IOOMM OF FREE DRAINING GRANILAR MATERIAL OR - A B.M.E.C. APPROVED

DRAINAGE LAYER MATERIAL (3) BRICK VENEER @ FDN. WALL

O.5mm POLY FLASHING MINIMUM ISOMM UP BEHIND SHEATHING PAPER WEEP HOLES & MIN. BOOMM APART

(4) GRADE

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

(5) SILL PLATE

SEXIAO SILL PLATE FASTENED
TO FOUNDATION WALL WITH
MIN. 12.7mm DIA. ANCHOR BOLTS
EMBEDDED MIN. IOOMM IN CONCRETE
© 2400mm O/C. MAX. & PROVIDE A
CONTINUOUS AIR BARRIER BETWEEN
THE FOUNDATION WALL & WOOD
ENAME CONSTRUCTION FRAME CONSTRUCTION

(6) FLOOR INSULATION

CONTINUOUS HEADER JOIST WITH RSI 4.40 BATT INSULATION, EXTEND VAPOUR / AIR BARRIER & SEAL TO JOIST AND SUBFLOOR

FOUNDATION INSULATION

12.7mm INTERIOR DRYWALL FINISH
35x54 WOOD STRAPPING & 400mm O/C.
WIN. RSI 2.11 INSULATION W O.I5mm POLY
VAPOUR BARRIER FULL HEIGHT.
MOISTURE BARRIER TO HEIGHT OF
EXTERIOR GRADE BETWEEN
FOUNDATION WALL & WOOD FRAMING

(8) BASEMENT SLAB

75mm FOURED CONCRETE SLAB (25 MPa CONC. STRENGTH) IOOmm 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. 4.5mm EXTERIOR PLYMOOD SHEATHING ON APPROVED ROOF TRUSSES OR CONVENTIONAL FRAMING (SEE PLANS) USE 'H' CLIPS IF 600mm O.C. SPACING

(II) OVERHANG CONSTRUCTION

PREFINISHED ALUMINIM 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.

(IS) EAVES PROTECTION

EAVES PROTECTION MEMBRANE TO 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 (25) EXISTING FLOOR STRUCTURE TO REMAIN.

(14) CEILING CONSTRUCTION

15.4mm INTERIOR DRYWALL FINISH CONTINUOUS AIR / VAPOUR BARRIER W MINIMUM RSI 7.00 BATT INSULATION

(15) FLOOR CONSTRUCTION

15.5mm T&G PLYWOOD SUBFLOOR 38x184 FLOOR JOISTS & 400mm O/C. FLOOR JOISTS BRIDGED W CONTINUOUS IMMINE 4mm STRAPPING OR 2 ROWS OF 38mmx38mm CROSS BRIDGING OR SOLID BLOCKING

(16) INTERIOR STUD PARTITION

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

(17) 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 MINIMUM RUN MAXIMUM RUN 125mm = 355mm MINIMUM TREAD MAXIMUM TREAD MAXIMUM NOSING = 355mm = 25mm MINIMUM WIDTH = 860mm MINIMUM HEADROOM = 1950mm

(19) GUARDS

INTERIOR LANDINGS = 900mm EXTERIOR BALCONY INTERIOR STAIRS EXTERIOR STAIRS = 1070mm = 900mm = 400mm MAX. BETWEEN PICKETS

GUARD HEIGHT IF GUARD HEIGHT IF
DECK TO GRADE IS.
GREATER THAN IBOOMM = IOTOMM
IBOOMM OR LESS = 900MM
NO MEMBER OR ATTACHMENT
BETWEEN I40MM & 900MM HIGH SHALL FACILITATE CLIMBING

PROVIDE ATTIC ACCESS MIN. 545mmx588mm W INSULATION 4 MEATHER 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
IOOmmxIOOmmx6.35mm
TOP & BOTTOM PLATE
ImxImx450mm CONCRETE FOOTING

TO REMAIN.

REMOVE EXISTING EXTERIOR WALL AS SHOWN DOTTED

REMOVE EXISTING INTERIOR STUD PARTITIONS AS SHOWN DOTTED

REMOVE EXISTING ROOF OVERHANG AS SHOWN DOTTED

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

TACBOC STANDARD DETAIL

SAMPLE DRAWING CONSTRUCTION SPECIFICATIONS DWG. NO.

A*03*h

RC	ROOM FINISH SCHEDULE										
RM.	ROOM NAME	FLOOR BAS		BASE	ASE WALLS			CEILING			REMARKS
NO.		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
	FIRST FLOOR								***************************************		
\odot	KITCHEN	CERAMIC TILE		MOOD	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	2720mm	
@	BREAKFAST	MOOD	STAIN	MOOD	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	2120mm	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	2120mm	MAPLE TO MATCH EXISTING
(5)	BATH	CERAMIC TILE		MOOD	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	2120mm	
	BASEMENT										
6)	REC. ROOM	CONC.	CERAMIC TILE	WOOD	PAINT	DRYWALL	PAINT			2340mm	
		 						<u> </u>		ļ	
						.		<u> </u>		↓	
										ļ	
						1					

D	DOOR SCHEDULE						
NO.	TYPE	SIZE	QTY.	REMARKS			
\odot	EXTERIOR	1525mmx 2030mm	I.	FRENCH DOOR			
②	SLAB	760mmx 2030mm	1.	800 SERIES			
3	SLAB	610mmx 2030mm	١.	800 SERIES			
④	POCKET DOOR	610mmx 2030mm	2.				

LII	NTEL SCHEDULE
NO.	DESCRIPTION
0	2-38xi84 SPRUCE
0	3-38xi84 SPRUCE
3	2-38x255 SPRUCE
0	3-38x235 SPRUCE
(3)	2-38x286 SPRUCE
0	3-38x286 SPRUCE
0	90mmx 90mmx 6mm L
0	90mmx 90mmx 8mm L
(3)	IOOmmx 40mmx 6mm L

M	ONE HINDOW FER FLOOR TO HAVE AN INDESTRICTED OPEN PORTION W A MIN. AREA OF 0.35m2 W NO DIMENSION LESS THAN 360mm & MAXIMM SILL HEIGHT OF IM ABOVE FLOOR							
NO.	TYPE	SIZE	QTY.	REMARKS				
0	CASEMENT	1525mmx 1525mm	1.					
@	CASEMENT	610mmx 1525mm	2.					
3)	SLIDER	915mmx 450mm	2.					

LEGEND

⇒ DUPLEX OUTLET (300mm ABOVE FLR.)

EXHAUST FAN

SWITCH HOSE BIB

MSD SMOKE DETECTOR

HEAVY DUTY OUTLET

- LIGHT FIXTURE (WALL MOUNTED) LIGHT FIXTURE (CEILING MOUNTED)

POT LIGHT FIXTURE

f B LIGHT FIXTURE (WATER RESISTANT)

0 LIGHT FIXTURE (CAPPED)

FLUORESCENT LIGHT FIXTURE

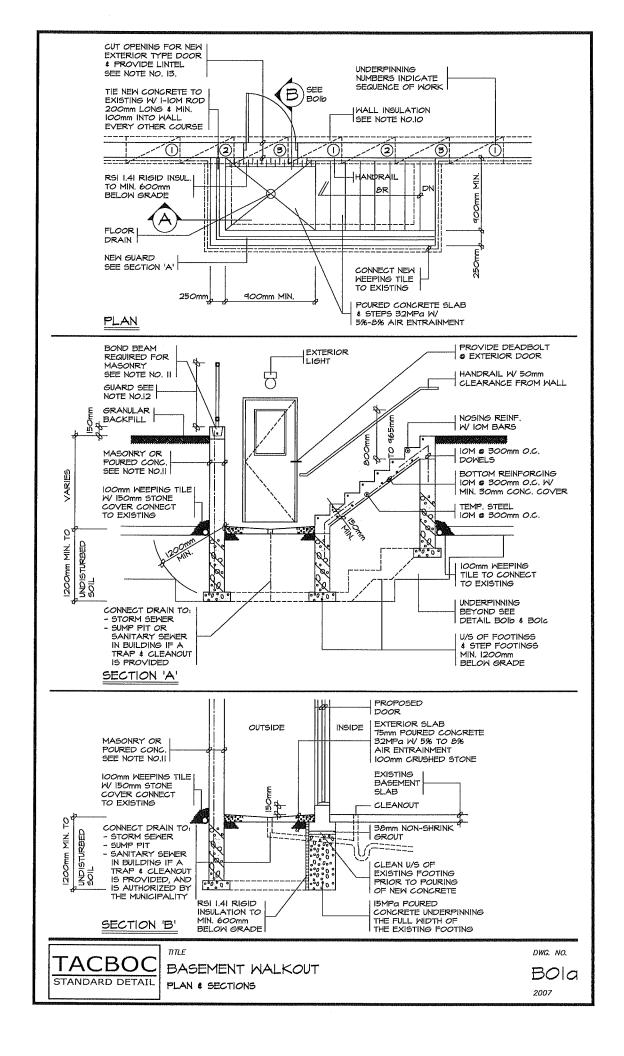
SOLID WOOD BEARING

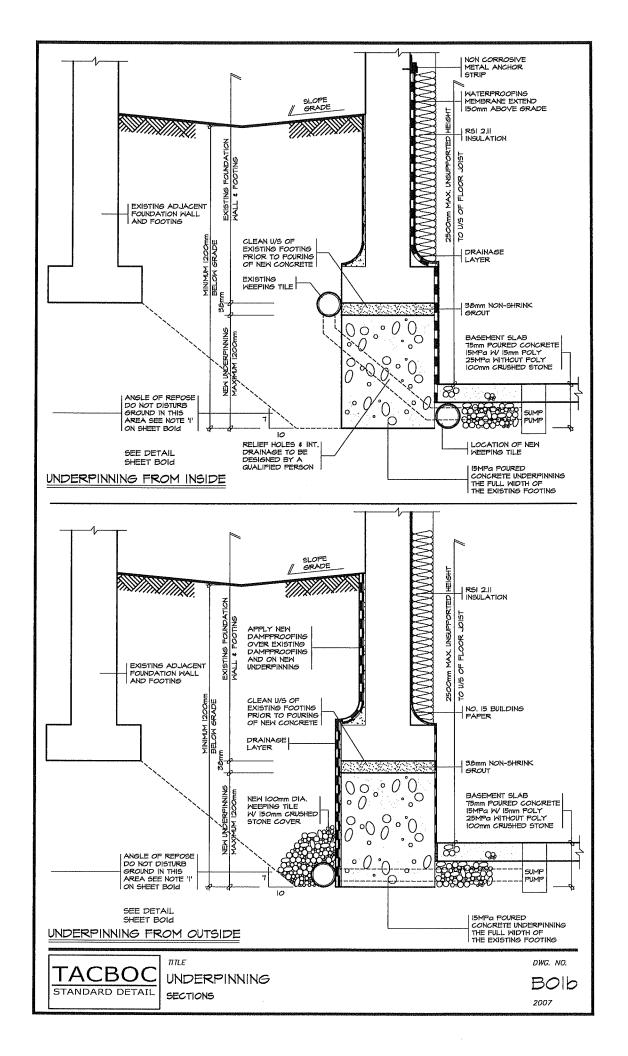
☐FD FLOOR DRAIN

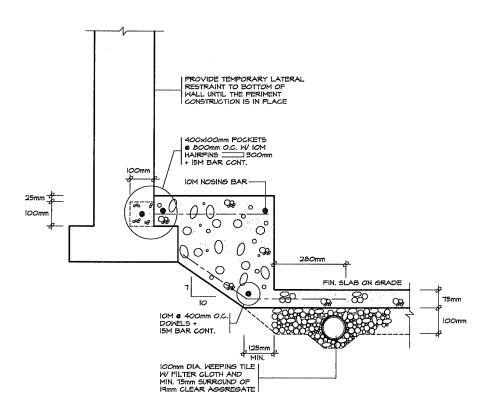
TELEPHONE OUTLET

COMPUTED

DE DRYER EXHAUST







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 MAXIMM TIJO 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

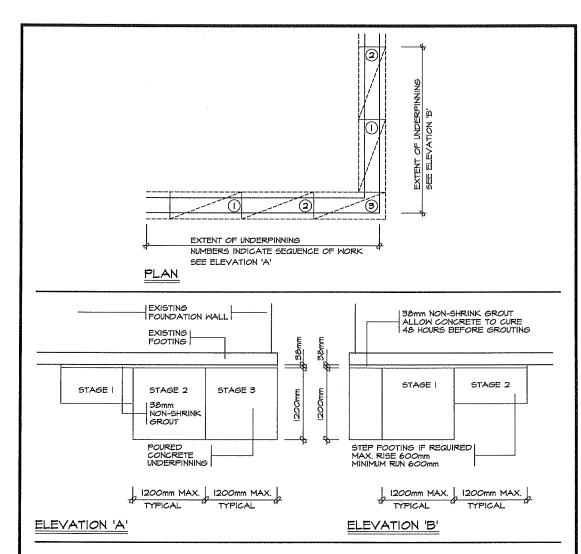


TITLE

BENCH-TYPE UNDERPINNING SECTIONS, NOTES

DWG. NO.





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 PROPESSIONAL 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 I5MPa 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 4 BRACE WHERE NECESSARY TO ENSURE THE SAFETY 4 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

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 MAXIMUM 235mm TREAD MINIMUM 355mm MAXIMUM

IO.INSULATION

- MIN. RSI 2.II (RI2) INSULATION & VAPOUR BARRIER ON THE INSIDE FACE OF THE EXPOSED FOUNDATION WALL
- MIN. RSI 1.41 (R8) INSULATION FOR 600mm BELOW GRADE AT WALKOUT LANDING

II. RETAINING WALL

250mm MASONRY OR POURED CONCRETE
WYNO REINFORCING REQUIRED FOR
WALL HEIGHTS TO A MAX. OF IZOOMM
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

IOTOMM 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: 1- 90mmx90mmx6mm L + 2-38x184
 - 3. WOOD FRAME/SIDING: 2-38x184

TACBOC STANDARD DETAIL

TITLE

UNDERPINNING
PLAN, ELEVATIONS & NOTES

DWG. NO.



MINIMUM ROOM AREAS APARTMENTS FOR ONE OR TWO PERSONS WHERE SPACE IS NOT PARTITIONED REQUIRED SPACE MINIMUM AREA LIVING, DINING, KITCHEN & SLEEPING SPACE 13.5M2 IN TOTAL OTHER PARTITIONED APARTMENTS 13.5M² LIVING AREA II.OM 2 IF LIVING AREA IS COMBINED W DINING 4 KITCHEN SPACE 7.0M² DINING AREA 3.25M2 IF DINING AREA IS COMBINED W ANOTHER SPACE 3.7M² KITCHEN 8.8M2 IF A BUILT IN CLOSET IS PROVIDED AT LEAST ONE BEDROOM 4.2M 2 IF THE BEDROOM AREA IS COMBINED W ANOTHER SPACE 7.0M² 6.0M2 IF A BUILT IN CLOSET IS PROVIDED OTHER BEDROOMS 4.2M 2 IF THE BEDROOM AREA IS COMBINED W ANOTHER SPACE

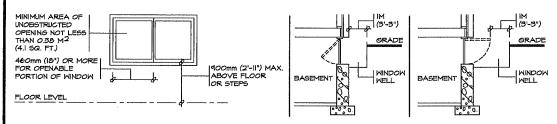
MINIMUM WINDOW AREAS FOR LIGHT

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 UNDBSTRUCTED OPEN PORTION HAVING A MINIMUM AREA OF 0.35M2 WITH NO
 DIMENSION LESS THAN 3BOMM SHALL BE PROVIDED, IF THIS WINDOW OPENS INTO A WINDOW WELL, A CLEARANCE OF NOT LESS THAN
 550mm SHALL BE PROVIDED IN PRONT 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	1/2 HOUR FIRE SEPARATION AROUND EXIT, AND INTERCONNECTED SMOKE ALARMS IN BOTH UNITS AND ALL COMMON AREAS.
EGRESS AVAILABLE ONLY THROUGH ANOTHER DWELLING	AN EGRESS WINDOM 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.



EGRESS WINDOW

WINDOW WELL FOR EGRESS WINDOW

SEPARATION BETWEEN UNITS

REQUIRED FIRE SEPARATIONS/CLOSURES	CONDITIONS
30 MINUTE FIRE SEPARATION (12.7mm TYPE 'X' GYPSUM BD. CEILING)	SMOKE ALARM IN BOTH UNITS
IS 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 WITHIN EACH DWELLING UNIT	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 WITHIN 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.

PLUMBING, HEATING AND VENTILATION

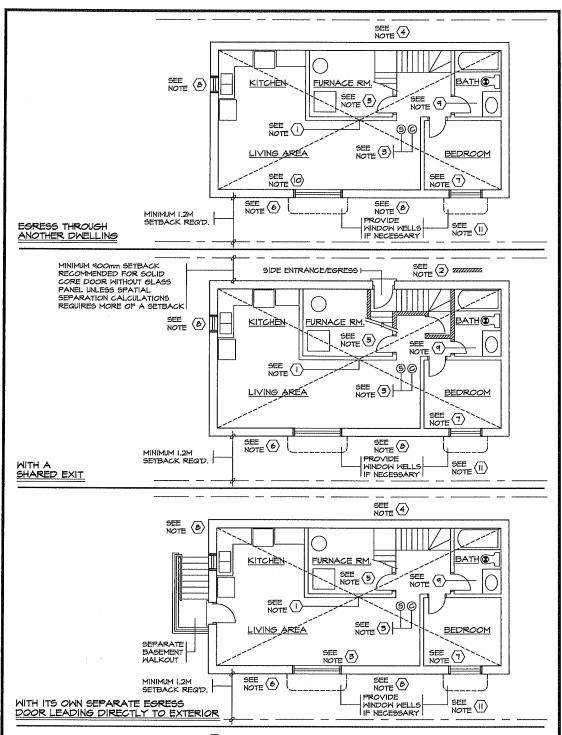
1 party 1 party 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
CENTRAL HEATING SYSTEM	EXISTING SYSTEM MAY SERVE BOTH UNITS PROVIDED I) BOTH UNITS ARE EQUIPPED WITH SMOKE ALARMS, AND II) A SMOKE DETECTOR IS INSTALLED IN THE SUPPLY OR RETURN AIR DUCT SYSTEM WHICH WOULD TURN OFF THE FUEL SUPPLY AND ELECTRICAL POWER TO THE HEATING SYSTEM UPON ACTIVATION.						
NATURAL VENTILATION (OPENABLE WINDOMS/DOORS) FOR LIVING/DINING ROOMS, BEDROOMS, KITCHEN	MINIMUM 0.28M ² (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.						
REQUIRE	D PLUMBING FACILITIES						
KITCHEN SINK LAUNDRY FACILITIES	BATHROOM WITH LAVATORY, TOILET AND BATHTUB OR SHOWER STALL						



BASEMENT ACCESSORY APARTMENT BUILDING CODE REQUIREMENTS - EXISTING BUILDING

DWG. NO.





NOTES RELATING TO PLANS ABOVE (I)

- I. MINIMUM 30 MINUTE FIRE SEPARATION UNLESS INTERCONNECTED SMOKE ALARMS ARE PROVIDED IN BOTH UNITS AND ALL COMMON AREAS, IN WHICH CASE, A IS MINUTE FIRE SEPARATION WOULD ONLY BE REQUIRED. INSTALLING SPRINKLERS IN 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.
- 7. MINIMUM 2 1/2% 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
- 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 BULLDING 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.

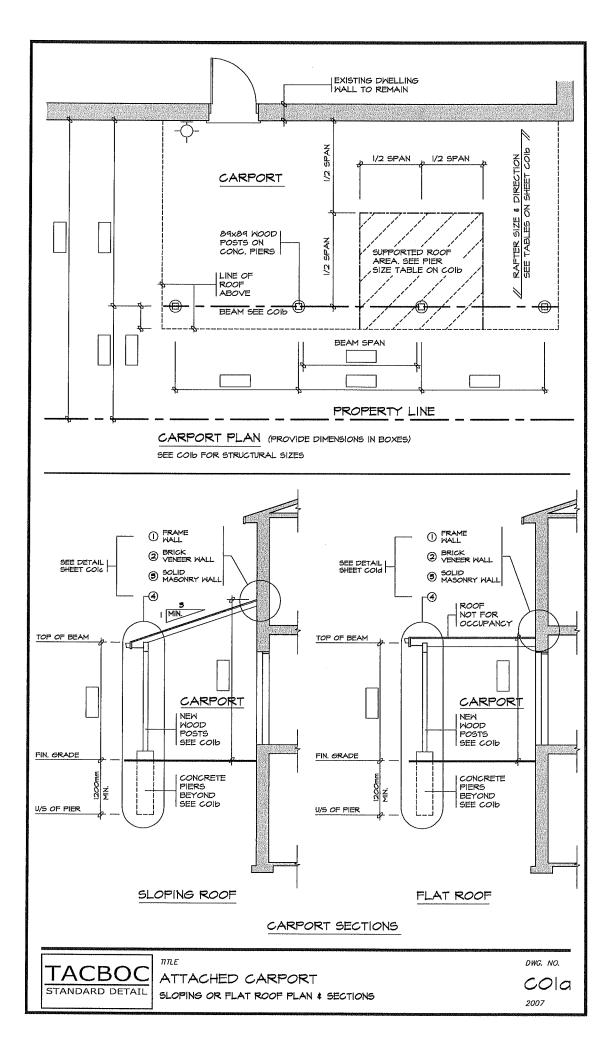
TACBOC STANDARD DETAIL

TITLE

BASEMENT ACCESSORY APARTMENT SAMPLE PLANS AND SPECIFICATIONS

DWG. NO.





ROOF RAFTERS

(WHERE NO CEILING IS INSTALLED)

		۲	IAXIMUM CLE	EAR SPAN (1	1)		
	ROOF 5	ROOF SNOW LOAD LOKPA			ROOF SNOW LOAD 1.5kPa		
RAFTER SIZE	RAFTER SPACING (mm) O.C.			RAFTER SPACING (mm) O.C.			
	300	400	600	300	400	600	
38x89	3.11	2.85	2.47	2,72	2.47	2.16	
38×140	4.90	4.45	3.89	4.28	3.89	5.40	
38×184	6.44	5.85	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)

		M	AXIMUM CLE	AR SPAN (1	1)	
	ROOF S	NOW LOAD	I.OkPa	ROOF S	NOW LOAD	1.5kPa
JOIST JOIST		PACING (mm) O.C.	JOIST SPACING (mm) O.C.		
and i dissilies	300	400	600	300	400	600
8x89	2.47	2.24	1.96	2.16	1.96	1.71
8x140	3.89	3.53	3.08	3.40	3.08	2.69
8x184	5.11	4.64	4.05	4.46	4.05	3.54
38×235	6.52	5.43	5.18	5.70	5.18	4.52

ROOFING

В	E	Α	1	1	9	
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ROOF FRAMING (mm) O.C.	ROOF SHEATHING
RAFTERS @ 300	7.5mm PLYWOOD W H-CLIPS OR
RAFTERS @ 400	17mm LUMBER
RAFTERS @ 600	9.5mm PLYWOOD W/ 'H'-CLIPS OR 19mm LUMBER

MAXIMUM CLEAR SPAN (M)	MINIMUM BEAM SIZE			
ROOF SNO	ROOF SNOW LOAD			
1.0kPa	1.5kPa			
2.35	2.02	2 - 38x184		
2.88	2.88 2.47			
3.54	2.87	2 - 38×286		

PIERS

		SUPPORTED ROOF AREA (M2)								
PIER	ROOF SN	ION LOAD I.O	kPa	ROOF SN	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	1.59	2.32	3.62				
250 DIA.	3.07	5.11	8.08	2.14	3.62	5.76				
300 DIA.	4.57	7.34	11.71	3.16	5.20	8.36				
350 DIA.	5.45	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 SNOW LOAD (kPa)							
(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	15.15	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			

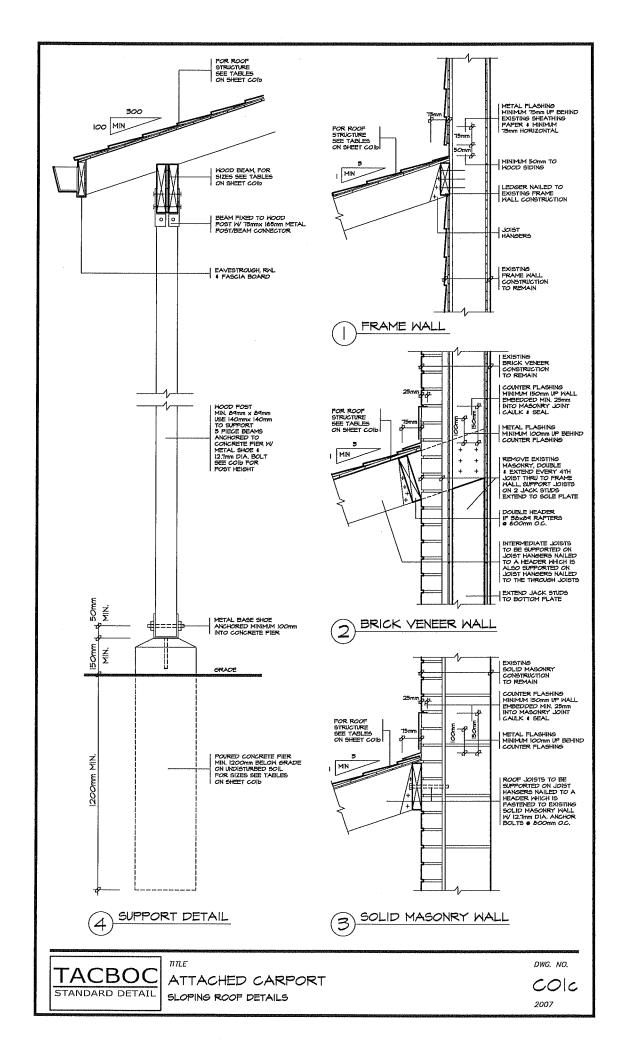
GENERAL NOTES

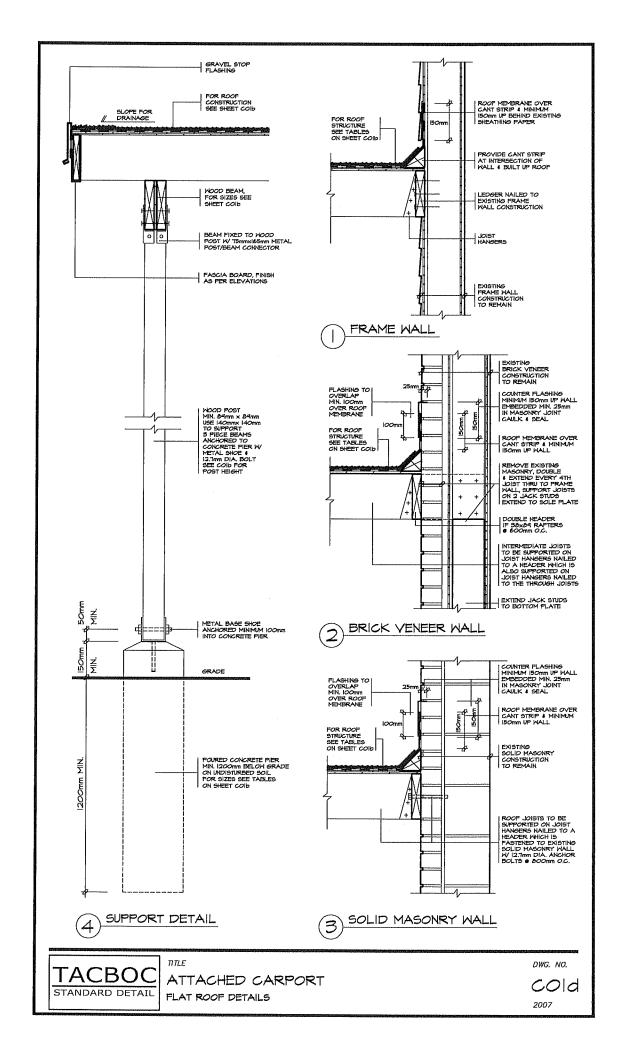
- ALL LUMBER TO BE NO. 142 SPF OR BETTER
 ALL PLYWOOD SHALL BE STAMPED EXTERIOR GRADE
 BEARING CAPACITY OF SOIL SHALL BE CONFIRMED PRIOR TO CONSTRUCTION.
- WHERE SUPPORTED ROOF AREAS EXCEED THOSE LISTED IN THIS TABLE, THE POSTS SHALL BE BRACED AS SHOWN IN DOIL.

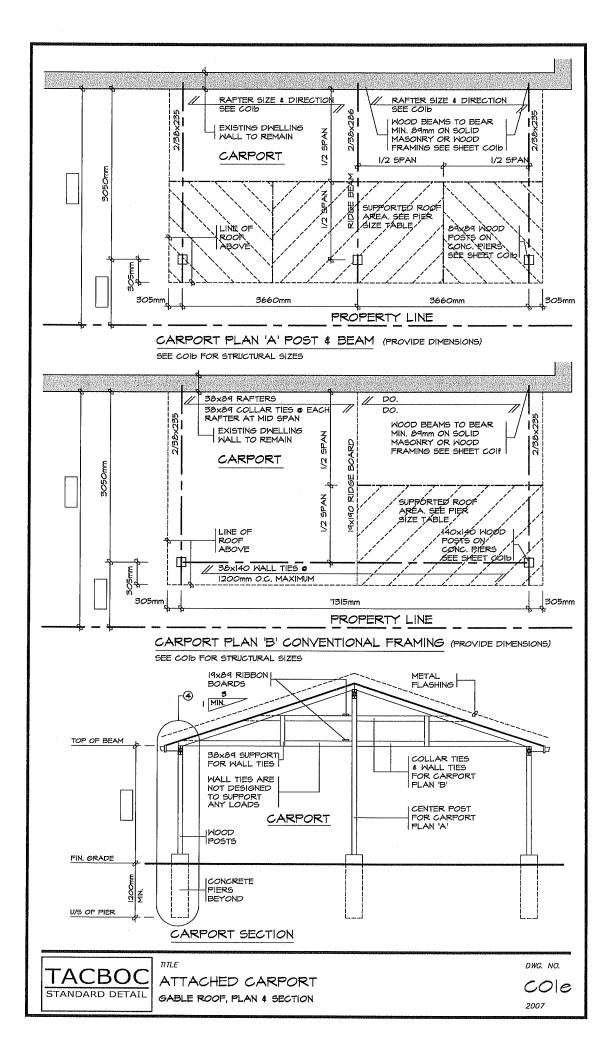
TACBOC STANDARD DETAIL ΠΤΙΕ

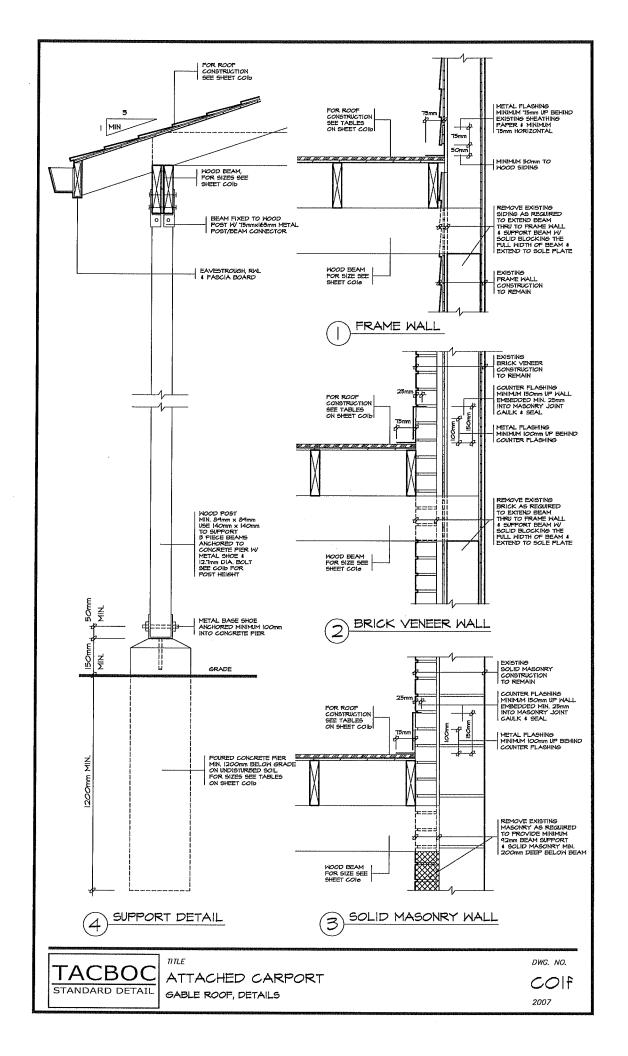
ATTACHED CARPORT SLOPING OR FLAT ROOFS, TABLES & NOTES DWG. NO.

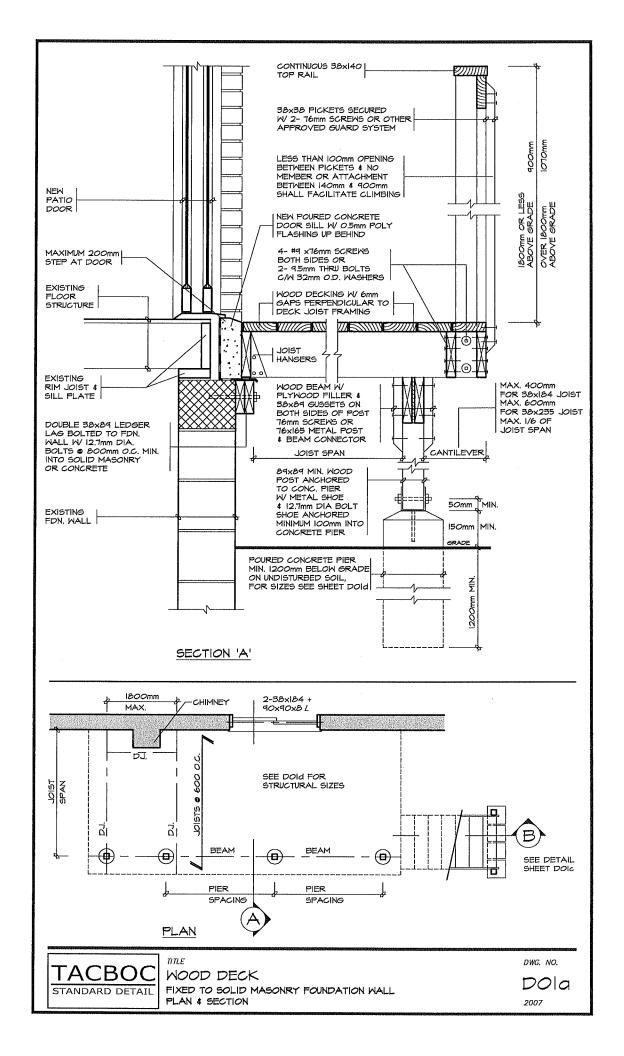


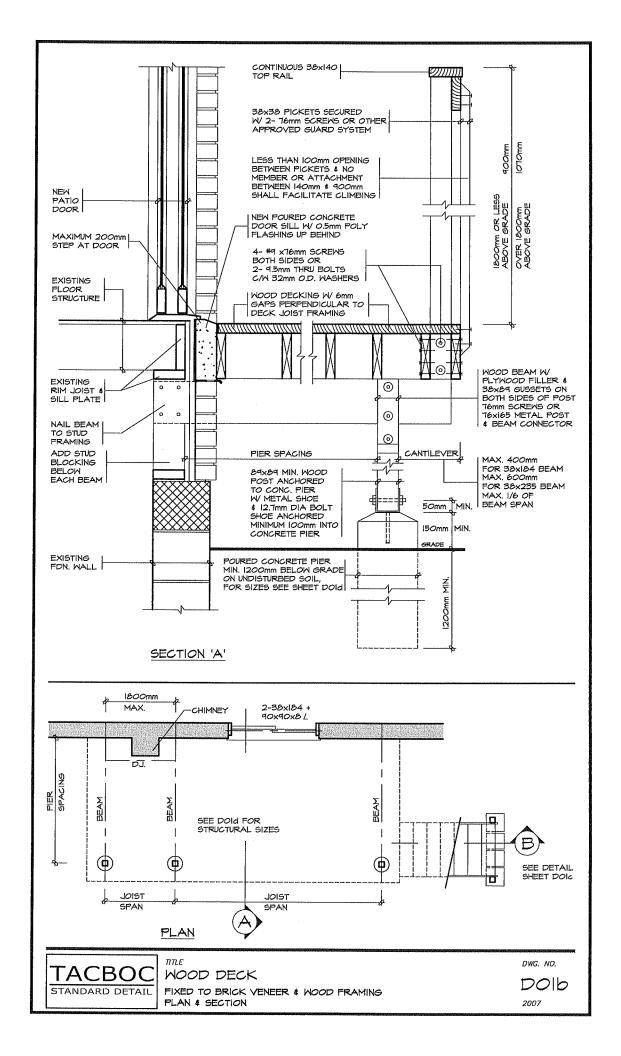


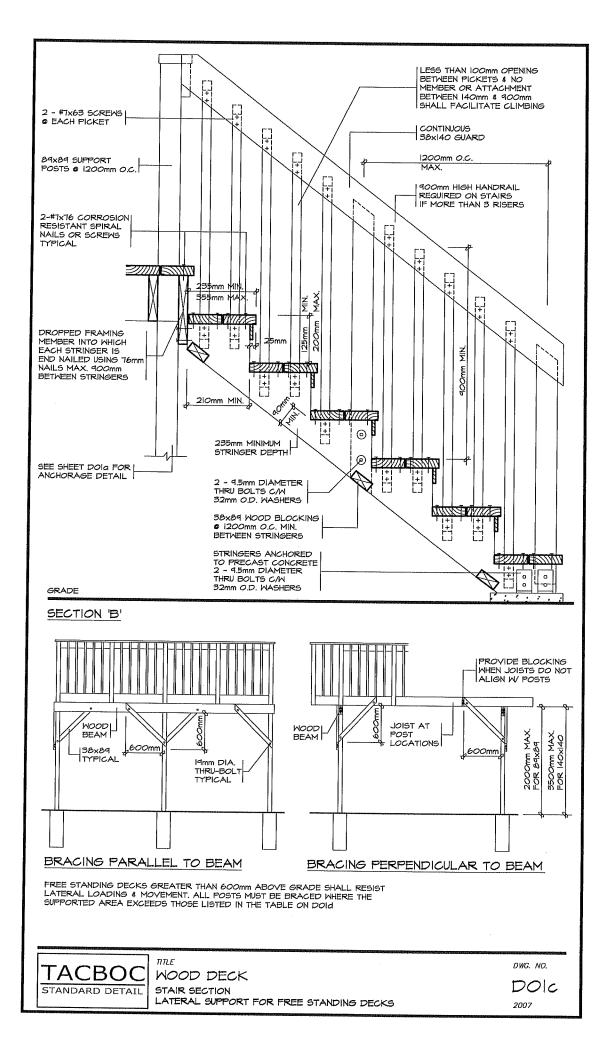












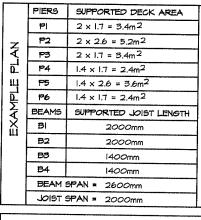
				BEAM S	SIZING TA	BLE				
SUPPORTED JOIST	LIVE	LOAD 1.9 KI	°a	LIVE	LOAD 2.5 k	Ра	LIVE	LIVE LOAD 3.0 kPa		
LENGTH PIER SPACING (mm)		nm)	PIER SPACING (mm)			PIER SPACING (mm)				
(mm)	2000	3000	4000	2000	3000	4000	2000	3000	4000	
1500	2/38x140	2/38x184	3/38×235	2/38×140	3/38x184	3/38×235	3/38x140	2/38×235	2/38×286	
2000	2/38x140	3/38x184	3/38x235	2/38x184	2/38×235	3/38×286	2/38xl84	2/38×235	3/38×286	
25 <i>00</i>	2/38x184	2/38×235	3/38x286	2/38x184	3/38×235	3/38×286	2/38xl84	3/38×235	4/38x286	
3000	2/38x184	2/38×235	3/38x286	2/38x184	3/38×235	4/38×286	2/38xl84	3/38×235	4/38x286	
3500	2/38x184	3/38×235	3/38×286	2/38x184	3/38×235	4/38×286	3/38x184	3/38×286	N/A	
4000	2/38x184	3/38×235	4/38x286	2/38xl84	3/38×286	N/A	3/38xl84	3/38×286	N/A	

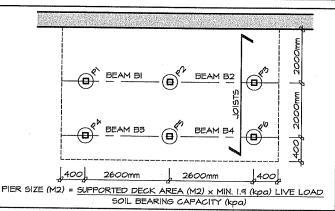
				JOIST :	SIZING TA	ABLE			
JOIST	LIVE LOAD 1.9 kPa		LIV	E LOAD 2.5	k P a	LIVE	LIVE LOAD 3.0 kPa		
SPAN	عاصل	T SPACING (mm)	JOIST SPACING (mm)			JOIST SPACING (mm)		
(mm)	500	400	600	300	400	600	300	400	600
2000	38x140	38x140	38x140	38x140	38x140	38x140	38x140	38x140	38x140
2500	38x140	38x140	38x184	38x140	38x140	38x184	38x140	38x184	38x184
3000	38x140	38xl84	38x184	38x184	38x184	38×235	38x184	38x184	38×235
35 <i>00</i>	38x184	38x184	38×235	38x184	38×235	38×235	38×235	38×235	38×235
4000	38×235	38x235	38x286	38×235	38×235	38×286	38×235	38×235	38×286

FOOTING SIZES						
SOIL BEARING CAP	ACITIES (kPa)					
50IL 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	I5 <i>0</i>					
TILL.	200					
CLAY SHALE	300					
SOUND ROCK	500					

PIER SIZES						
DIAMETER (mm)	M ²					
200	0.03					
250	0.05					
300	0.08					
35 <i>0</i>	0.10					
400	0.13					
500	0.20					
600	0.30					

POST SIZING TABLE								
POST	MAXIMUM	MAX. SUPP	ORTED DECK	AREA (M2)				
SIZE (mm)	HEIGHT (M)	Li	VE LOAD (K	Pa)				
(min)	(1~)	1.9	2.5	3.0				
	1.0	10.86	8.71	7.48				
89x89	1.5	5.93	4.76	4.09				
	2.0	3 .15	2.53	2.17				
	2.0	13.67	10.98	9.43				
140x140	2.5	4.32	7.48	6.43				
	3.0	6.35	5.10	4.38				
	3.5	4.41	3.54	3.04				





GENERAL NOTES

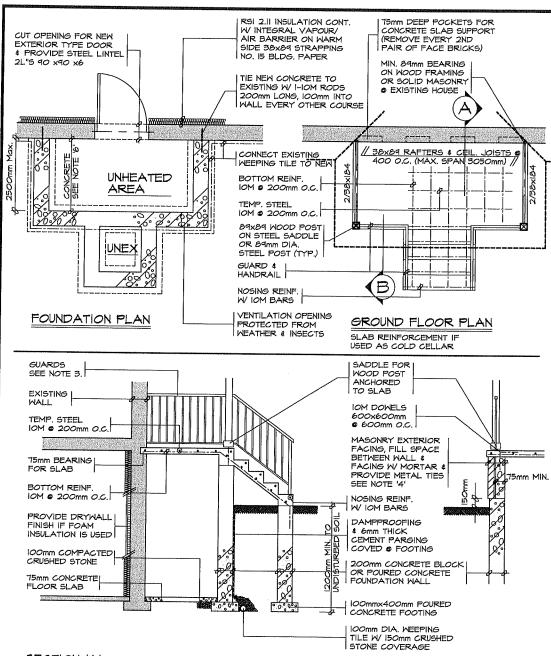
- I. A MINIMUM LIVE LOAD OF 1.9 (kPa) SHALL BE APPLIED IN ALL LOCATIONS.
- 2. THE PRESCRIBED SNOW LOAD FOR 225 SELECTED ONTARIO LOCATIONS IS INDICATED IN COLUMN 12 OF TABLE 1.2 IN SUPPLEMENTARY GUIDELINE 55-1 OF THE ONTARIO BUILDING CODE, THE SNOW LOAD SHALL BE APPLIED AS THE MINIMUM LIVE LOAD WHERE IT IS GREATER THAN 1.9 (KPQ)
- 3. A SITE PLAN OR SURVEY IS REQUIRED SHOWING ALL LOT LINES & DIMENSIONS, SIZE & LOCATION OF ALL EXISTING BUILDINGS & DECKS.
- LUMBER NO. 2 SPF OR BETTER WOOD POSTS MIN. 84x89 (SOLID).
 USE CORROSION RESISTANT SPIRAL NAILS OR SCREMS.
- 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 BY 140x140 POSTS.
- 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..



MOOD DECK STRUCTURAL SIZING TABLES

DWG. NO.





SECTION 'A'

SECTION 'B'

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 800mm - 965mm

3. GUARDS

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 IOTOMM 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. FOUNDATION WALLS

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

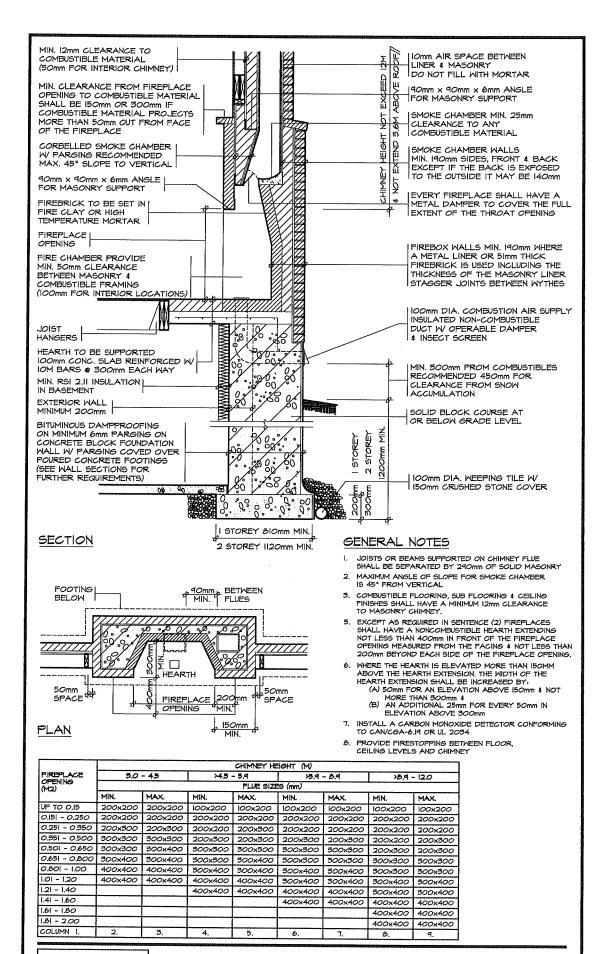
MINIMUM CONCRETE STRENGTH SHALL BE 32Mpa W 5%-8% AIR ENTRAINMENT CONCRETE SLAB THICKNESS 125mm PROVIDE MIN. 30mm CLEAR CONCRETE COVER TO REINFORGING BARS

TACBOC STANDARD DETAIL TITLE

CONCRETE PORCH & COLD CELLAR PLANS, SECTIONS & NOTES

DWG. NO.

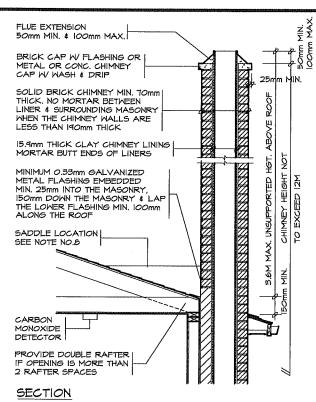
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TACBOC STANDARD DETAIL MASONRY FIREPLACE
PLAN 4 SECTION

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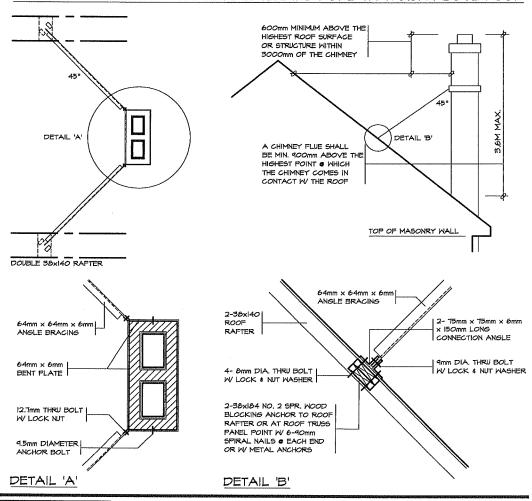
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EX GENERAL NOTES

- 1. 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 MPg. ALL EXPOSED STEEL & FASTENERS SHALL BE GALVANIZED OR PAINTED WITH 2 COATS OF ZINC-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 MAXIMM SPAN OF 3400mm. 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 16 THE HIDTH 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 SHINGLE EXPOSURE. PROVIDE COUNTERFLASHING AT THE CHIMNEY.

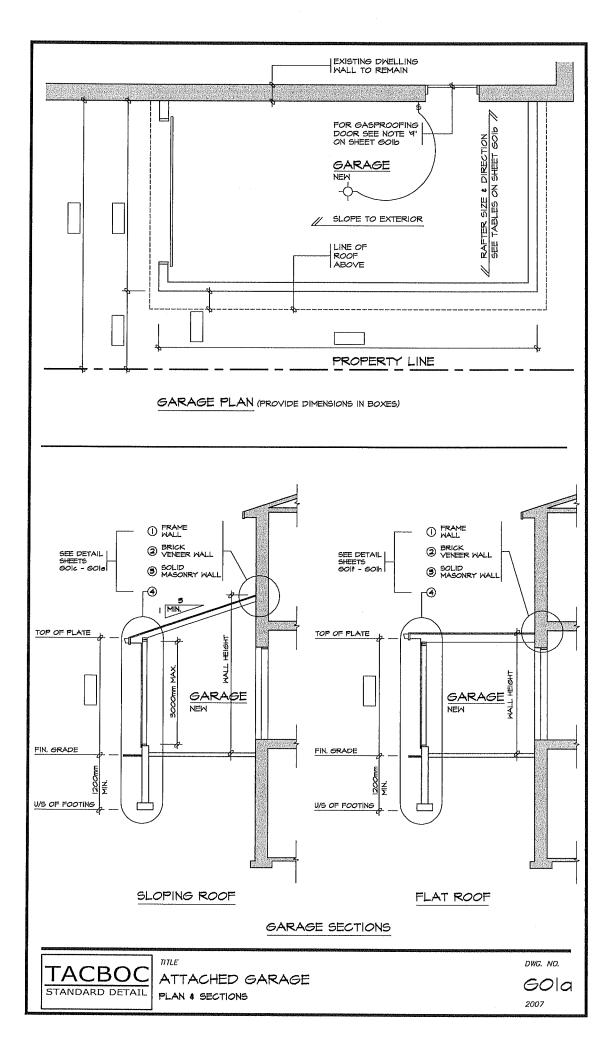
LATERAL BRACING FOR CHIMNEYS EXTENDING MORE THAN 3.6M ABOVE ROOF



TACBOC STANDARD DETAIL MASONRY FIREPLACE

DWG. NO.

FOID



ROOF RAFTERS

(WHERE NO CEILING IS INSTALLED)

		М	AXIMUM CLE	AR SPAN (N	1)		
RAFTER SIZE	ROOF SNOW LOAD 1.0kPa RAFTER SPACING (mm) O.C.			ROOF SNOW LOAD 1.5kPa RAFTER SPACING (mm) O.C.			
	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	
38x184	6.44	5.85	5.!!	5.62	5.11	4.41	
38×235	8.22	7.47	6.38	7.18	6.52	5.34	

ROOF JOISTS

(WHERE CEILING IS INSTALLED)

		۲	1AXIMUM CLE	EAR SPAN (1	4)		
JOIST SIZE	ROOF SNOW LOAD LOKPA			ROOF SNOW LOAD 1.5kPa			
	JOIST SPACING (mm) O.C.			JOIST SPACING (mm) O.C.			
	300	400	600	300	400	600	
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	
38×235	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 VENEE		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	2/38×184	2/38×286	2/38x184 + ANGLE 125x90x8	2/38x286 + ANGLE 25x90x8	2 ANGLES 150x100x10	WI50x22 + PLATE 200x10	
UP TO 4900mm	2/38×286	4/38×286 OR 2-45×300 I.9E LVL	W200x21 + PLATE 200x10	W200x27 + PLATE 200x10	MUST BE DESIGNED	MUST BE DESIGNED	

GENERAL NOTES

- I. ALL LUMBER TO BE NO. 142 SPRUCE OR BETTER
- 2. ALL PLYWOOD SHALL BE STAMPED EXTERIOR GRADE
- 3. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL
- 4. IF GARAGE WALL IS LESS THAN 1200mm TO THE PROPERTY LINE PROVIDE 15.9mm TYPE 'X' DRYWALL INTERIOR SHEATHING. NO WINDOWS ARE PERMITTED.
- 5. IF GARAGE WALL IS LESS THAN 600mm TO THE PROPERTY LINE NON-COMBUSTIBLE CLADDING OR VINYL SIDING W/ GYPSUM SHEATHING IS REQUIRED.
- 6. GARAGE WALLS ADJOINING DWELLING MUST BE COMPLETELY SEALED TO PREVENT ANY INFILTRATION OF GASES INTO THE DWELLING.
- 7. CAULK ALL PENETRATIONS SUCH AS HOSE BIB & JOINTS BETWEEN GYPSUM BD. & OTHER SURFACES W ACOUSTICAL SEALANT.
- 8. 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.
- IO. GARAGE SLAB SHALL BE SLOPED TO DRAIN TO THE OUTSIDE, CONCRETE SHALL BE MIN. 32MPa W 5%-8% AIR ENTRAINMENT.
- II. ALL ROOF SHEATHING TO BE 9.5mm PLYWOOD OR IMM OSB, FOR ROOF RAFTERS © 300mm OR 400mm O.C. USE "H" CLIPS FOR ROOF RAFTERS © 600mmO.C..
- 12. STEPPED FOOTINGS, IF REQUIRED, SHALL HAVE A MAXIMUM RISE OF 600mm & A MINIMUM RUN OF 600mm.
- 13. PROVIDE A LIGHT FIXTURE IN THE GARAGE.
- 14. STEEL BEAMS TO BE SUPPORTED BY SOLID MASONRY (190mm BEARING ON MASONRY OR 13mm DIA. STEEL COLUMN).
- 15. LINTELS AND BEAMS TO BE DESIGNED BY A QUALIFIED PERSON FOR SPANS GREATER THAN 4900mm

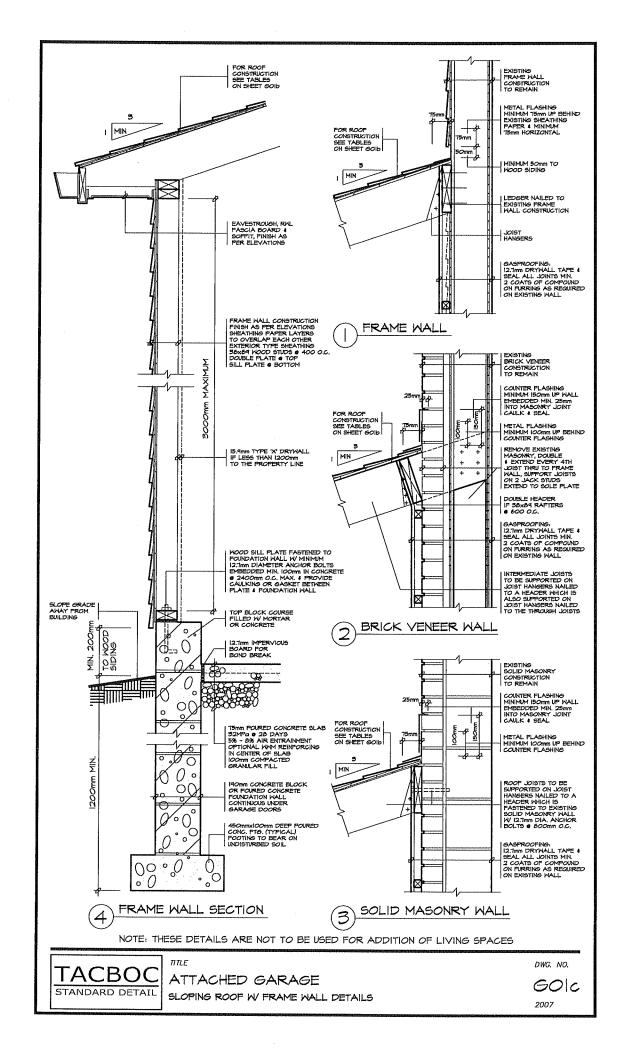
TACBOC STANDARD DETAIL ПТLЕ

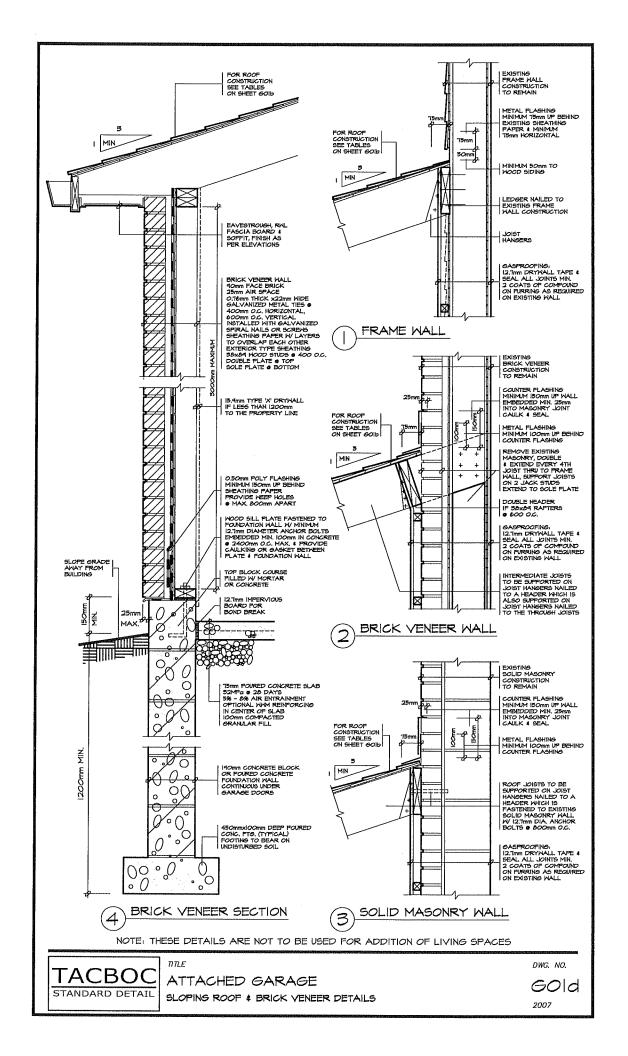
ATTACHED GARAGE

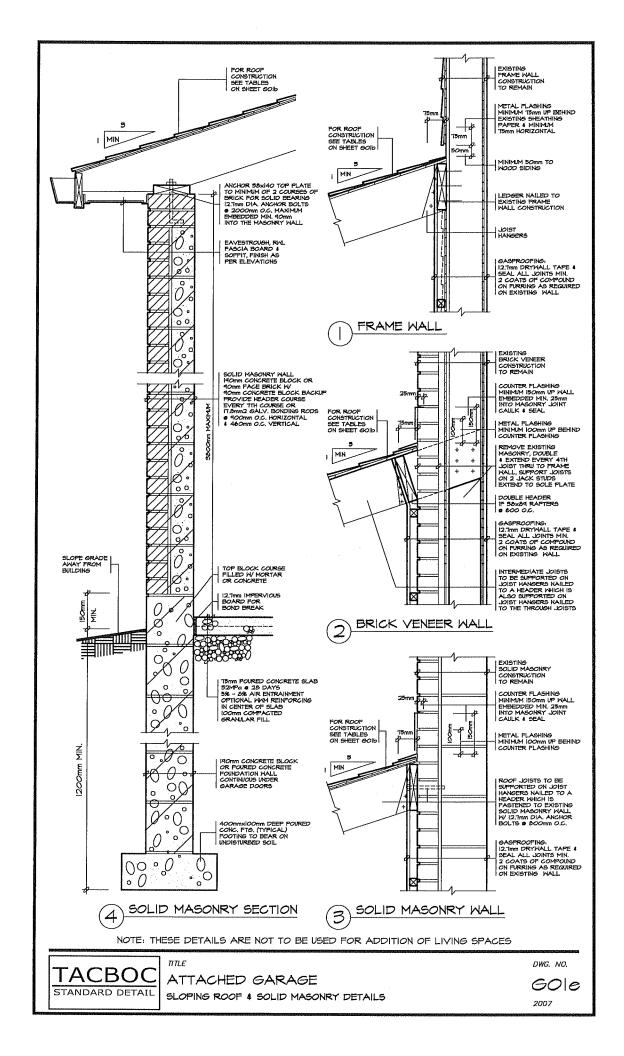
TABLES & NOTES

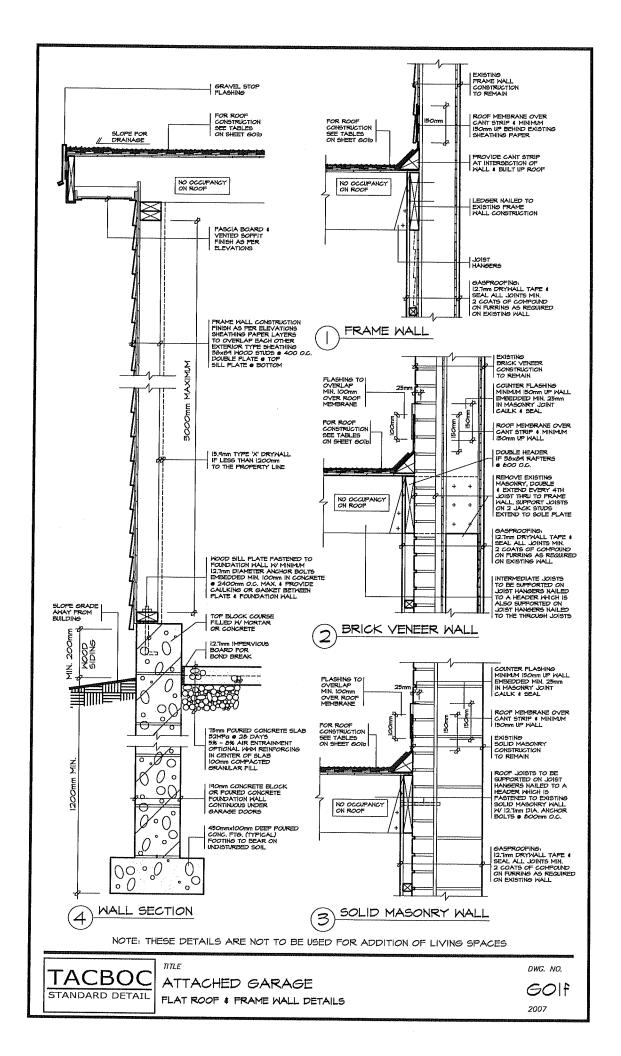
DWG. NO.

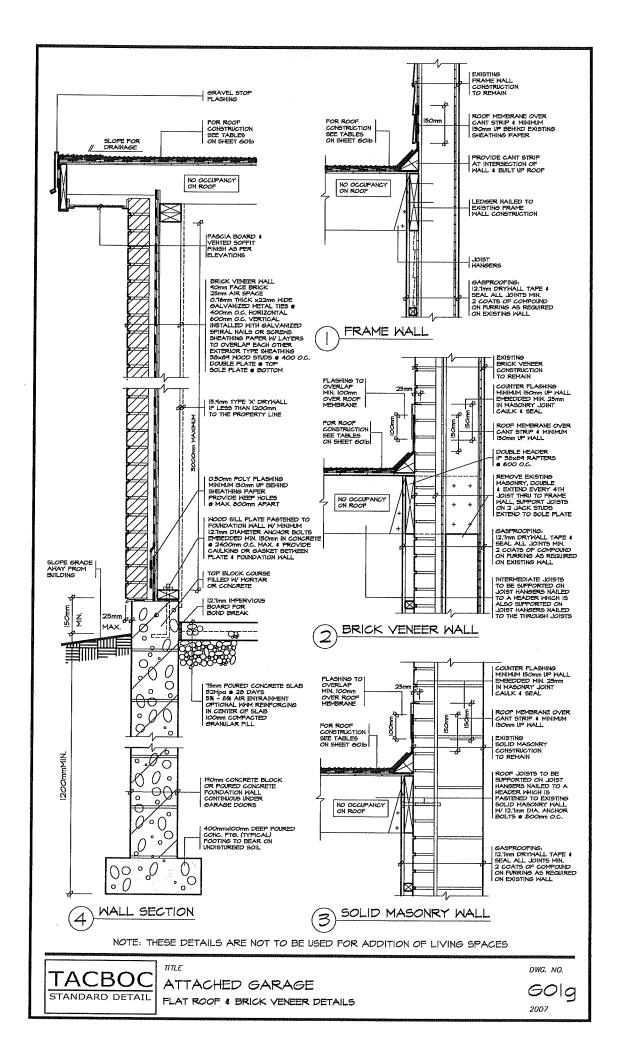
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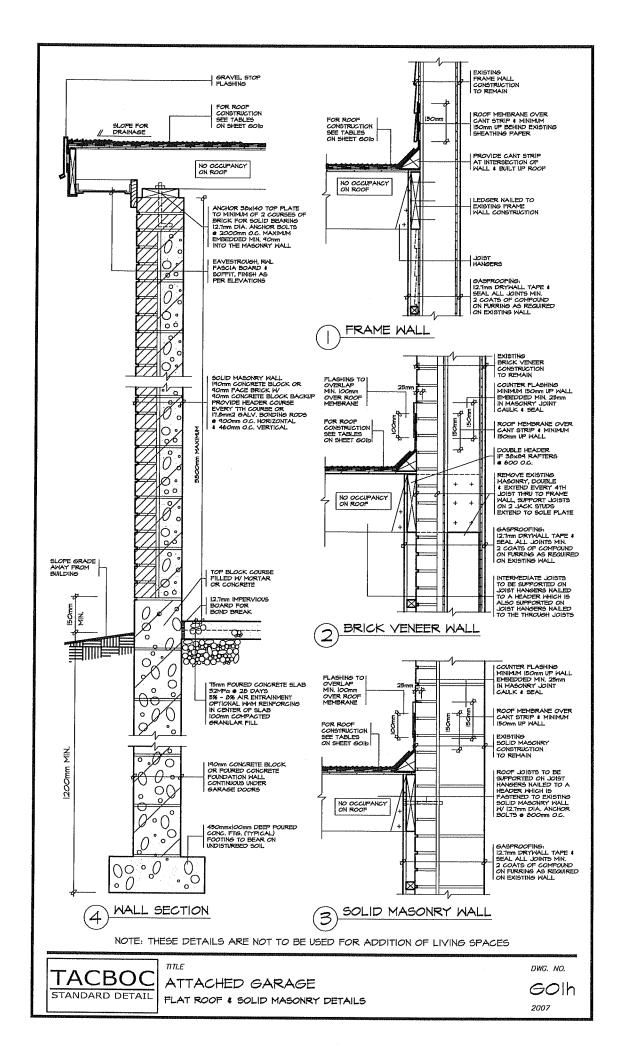


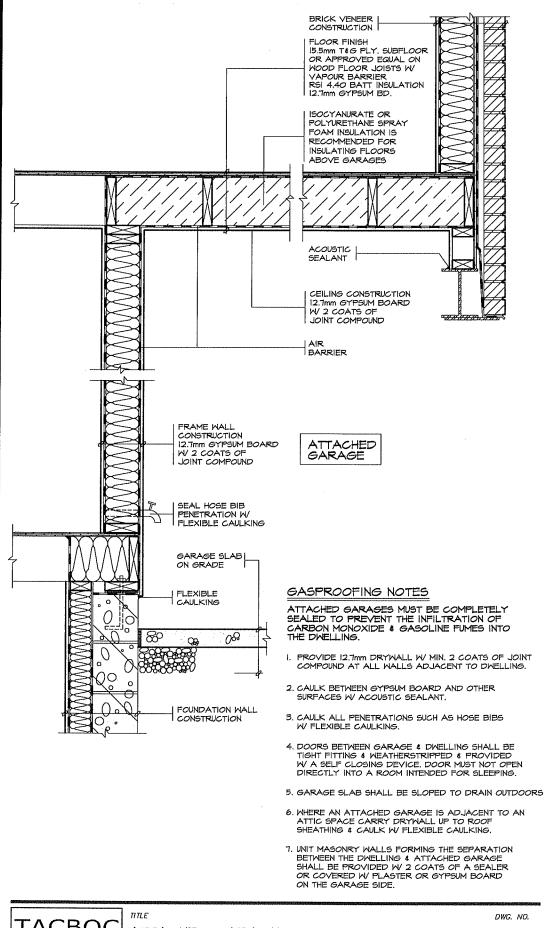








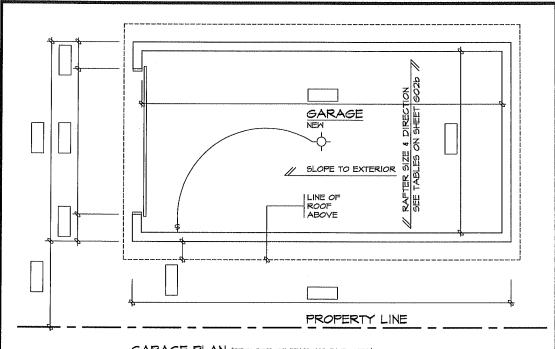




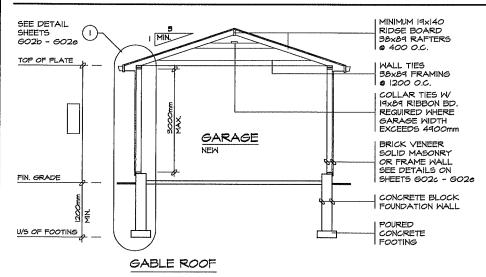
TACBOC STANDARD DETAIL

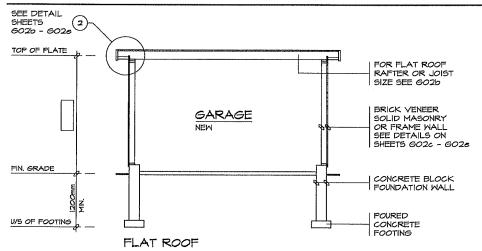
ATTACHED GARAGE
GASPROOFING & INSULATION DETAILS





GARAGE PLAN (PROVIDE DIMENSIONS IN BOXES)





TACBOC STANDARD DETAIL

TITLE

DETACHED GARAGE SLOPING OR FLAT ROOF PLAN & SECTIONS DWG. NO.

602a

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

		М	AXIMUM CLE	EAR SPAN (1	1)		
	ROOF S	NOW LOAD I	.0kPa	ROOF S	SNOW LOAD	1.5kPa	
RAFTER SIZE	RAFTER	RAFTER SPACING (mm) O.C.			RAFTER SPACING (mm) O.C.		
	300	400	600	300	400	600	
38×89	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	
38×235	8.22	7.47	6.38	7.18	6.52	5.39	

ROOF JOISTS

(FLAT ROOF - WHERE CEILING IS INSTALLED)

		М	AXIMUM CLE	EAR SPAN (N	1)		
	ROOF SNOW LOAD I.OKPa			ROOF SNOW LOAD 1.5kPa			
JOIST SIZE	JOIST S	JOIST SPACING (mm) O.C.			JOIST SPACING (mm) O.C.		
	300	400	600	300	400	600	
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	5.54	
38×235	6.52	5.93	5.18	5.70	5.18	4.52	
38×286	7.94	7.21	6.50	6.94	6.30	5.50	

LINTELS

DOOR	LINTELS FOR WOOD FRAMING		LINTELS FOR BRICK VENEE	R 90mm	LINTELS FOR SOLID MASONRY 200mm		
WIDTH	NOT SUPPORTING THE ROOF	SUPPORTING THE ROOF	NOT SUPPORTING THE ROOF	SUPPORTING THE ROOF	NOT SUPPORTING THE ROOF	SUPPORTING THE ROOF	
UP TO 3000mm	2/38×184	2/38×286	2/58x184 + ANGLE 125x90x8	2/38x286 + ANGLE 25x90x8	2 ANGLES 150x100x10	WI50x22 + PLATE 200x10	
UP TO 4900mm	2/38×286	4/38X286 OR 2- 45x300 I.9E LVL	W200x27 + PLATE 200x10	W200x27 + PLATE 200x10	MUST BE DESIGNED	MUST BE DESIGNED	

GENERAL NOTES

- I. ALL LUMBER TO BE NO. 142 SPRUCE OR BETTER
- 2. ALL PLYWOOD SHALL BE STAMPED EXTERIOR GRADE
- 3. ROOF LOAD DESIGN I.O kPa OR I.5 kPa
- 4. ALL FOOTINGS TO BEAR ON UNDISTURBED SOIL.
- 5. 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 GO2c
- 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 PLYMOOD PROVIDE 'H' CLIPS IF RAFTERS OR JOISTS ARE SPACED GREATER THAN 400mm O.C.
- 9. PROVIDE A LIGHT FIXTURE IN THE GARAGE.
- IO. STEEL BEAMS TO BE SUPPORTED BY SOLID MASONRY (190mm BEARING ON MASONRY OR 73mm DIA, STEEL COLUMN).
- II. LINTELS AND BEAMS TO BE DESIGNED BY A QUALIFIED PERSON FOR SPANS GREATER THAN 4900mm

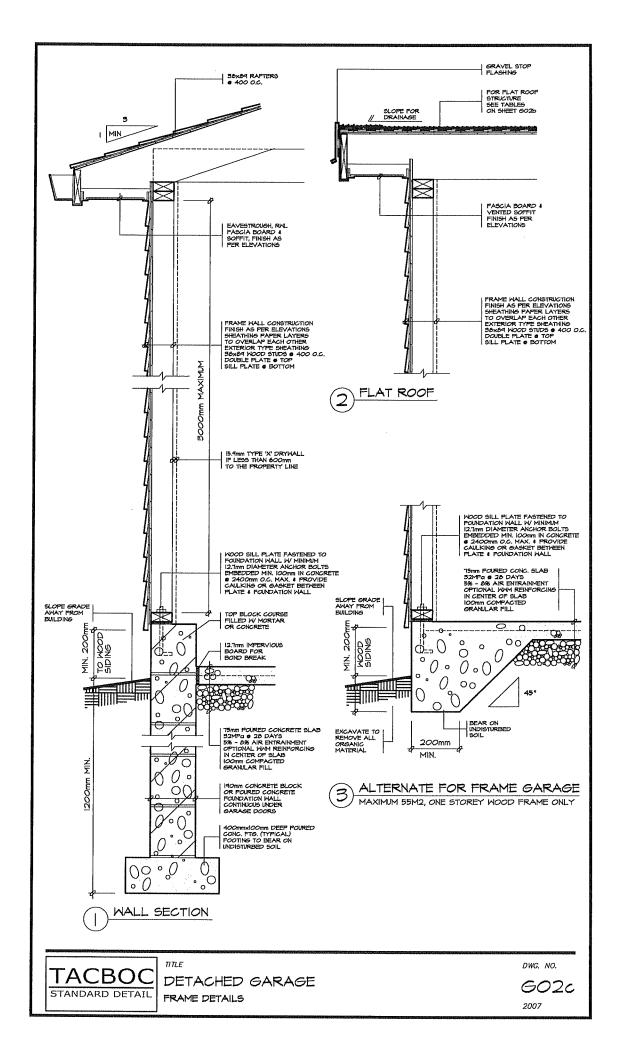
TACBOC STANDARD DETAIL ΠΠΕ

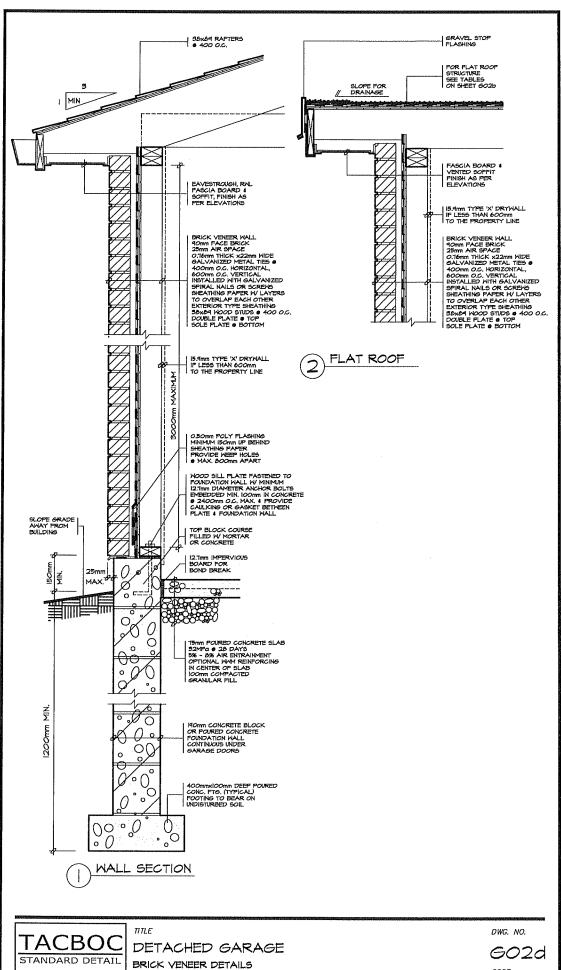
DETACHED GARAGE

TABLES # NOTES

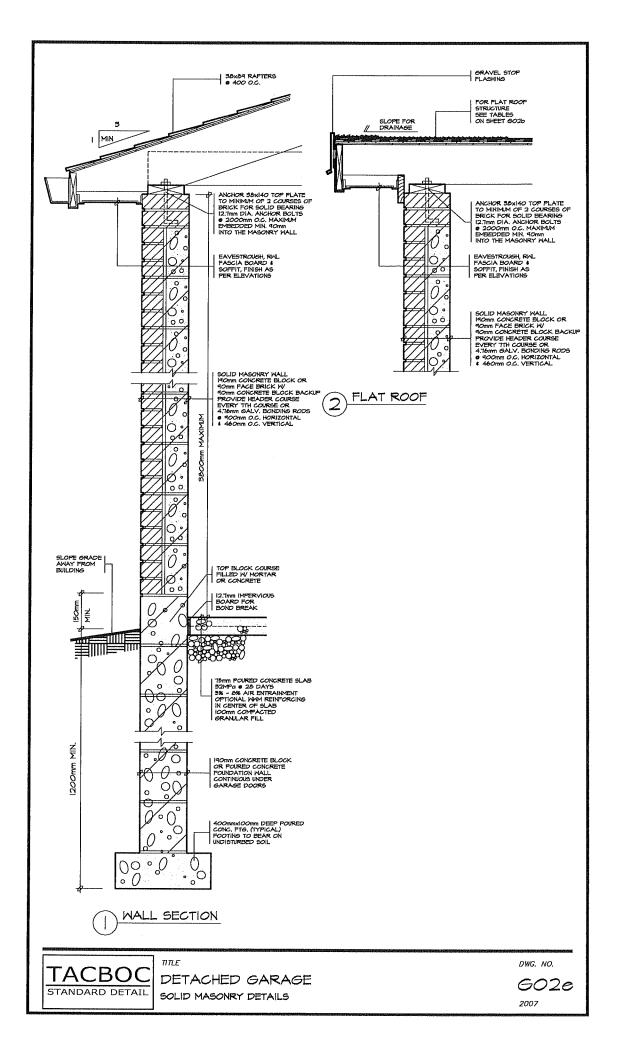
DWG. NO.

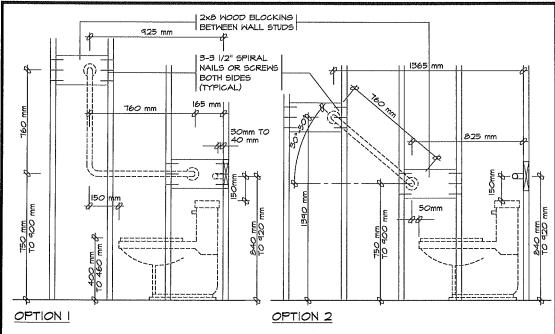
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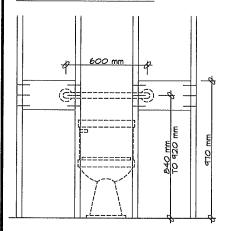


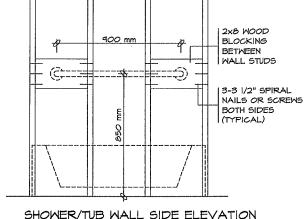
STANDARD DETAIL





W.C. SIDE ELEVATION





W.C. FRONT ELEVATION

SHOWER/TUB WALL SIDE ELEVATION

GRAB BAR REINFORCEMENT

REINFORCEMENT SHALL BE INSTALLED TO PERMIT THE FUTURE INSTALLATION OF A GRAB BAR IN THE MAIN BATHROOM OF A DWELLING UNIT. IF GRAB BAR IS NOT INSTALLED AT TIME OF CONSTRUCTION, BLOCKING FOR BOTH CONFIGURATIONS AT SIDE OF WATER CLOSET IS REQUIRED.

GRAB BAR INSTALLATION SPECIFICATION

BESIDE WATER CLOSET

OPTION I L-SHAPED GRAB BAR WITH 760mm LONG HORIZ. AND VERT. COMPONENTS MOUNTED W HORIZ. COMPONENT TSOMM TO 900mm A.F.F. AND THE VERTICAL COMPONENT ISOMM IN FRONT OF TOILET BOWL. OPTION 2 MIN. 760mm LONG GRAB BAR MOUNTED

AT A 30° TO 50° ANGLE SLOPING UPWARDS AWAY FROM WATER CLOSET W LOWER END OF BAR MOUNTED 750mm TO 900mm A.F.F. AND 50mm IN FRONT OF TOILET BOWL.

2. BEHIND WATER CLOSET

MIN. 600mm LONG GRAB BAR MOUNTED HORIZONTALLY ON WALL 840mm TO 920mm ABOVE THE FLOOR AND 150mm ABOVE THE WATER TANK IF APPLICABLE.

3. BEHIND BATHTUB OR SHOWER

MIN 400mm LONG GRAB BAR MOUNTED HORIZONTALLY ON WALL APPROXIMATELY 850mm ABOVE FINISHED FLOOR LOCATE OPPOSITE SHOWER ENTRANCE SO THAT NOT LESS THAN 300mm OF ITS LENGTH IS AT ONE SIDE OF THE SEAT.

4. GRAB BAR ATTACHMENT

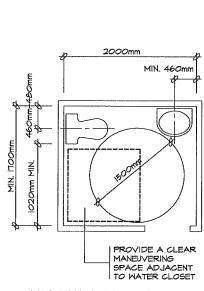
GRAB BAR MUST BE ATTACHED WITH SCREWS WHICH PENETRATE AT LEAST 32mm INTO THE SOLID BLOCKING.

TACBOO STANDARD DETAIL TITLE

BARRIER FREE WASHROOM GRAB BAR WALL REINFORCING

DWG. NO.



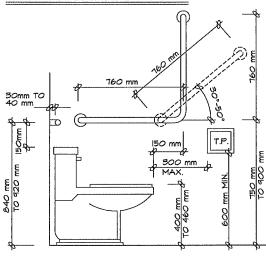


UNIVERSAL TOILET ROOM WA OUTWARD SWINGING DOOR

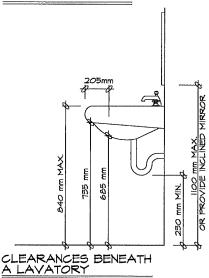
PROVIDE DOOR

CLOSER & POWER DOOR OPERATOR FOR OUTWARD

SWINGING DOORS



CLEARANCES FROM WALL TO FIXTURES



DOORS

A MINIMM 900mm DOOR IS REQUIRED WITH A MINIMUM UNOBSTRUCTED CLEAR WIDTH OF \$50mm. THE DOOR MUST SWING OUT, UNLESS ENOUGH AREA IS PROVIDED WITHIN THE WASHROOM TO PERMIT CLOSING THE DOOR WITHOUT INTERFERING WITH THE WHEELCHAIR. DOORS MAY BE LOCKABLE, BUT CAPABLE OF EMERGENCY RELEASE FROM THE OUTSIDE. DOOR OPENING DEVICES SHALL BE LEVER TYPE DESIGN THAT DOES NOT REQUIRE TIGHT GRASPING OR THISTING OF THE WRIST. A DOOR CLOSER & A PONER OPERATOR IS REQUIRED WHERE THE DOOR OPENS OUTWARD.

WATER CLOSET

A SEAT HEIGHT OF 400mm TO 460mm IS REQUIRED.
FLUSHING CONTROLS MUST BE EASILY ACCESSIBLE TO A
WHEELCHAIR USER OR BE AUTOMATICALLY OPERABLE.
A BACK SUPPORT IS REQUIRED WHERE THERE IS NO SEAT
LID OR TANK, SEATS MUST NOT BE SPRING-ACTIVATED

ACCESSORIES

A COAT HOOK MUST BE PROVIDED. ALL ACCESSORIES, SUCH AS SOAP AND TOWEL DISPENSERS, MUST BE MOUNTED NOT MORE THAN 1200mm FROM THE FLOOR. TOILET PAPER DISPENSERS SHALL BE LOCATED (BELOW THE GRAB BAR) WITHIN 300mm IN FRONT OF THE TOILET SEAT AND MORE THAN 600mm ABOVE THE FLOOR

LAVATORIES

MUST BE NOT MORE THAN \$40mm FROM THE TOP OF A BASIN OR VANITY TO THE FLOOR, A 760mm WIDE AREA REQUIRES THE FOLLOWING CLEARANCES BENEATH THE LAVATORY: 735mm UNDER THE FRONT EDGE: 665mm AT A POINT 205mm BACK FROM THE FRONT EDGE, 230mm OVER THE DISTANCE FROM A POINT 280mm TO A POINT 430mm BACK FROM THE FRONT EDGE, INSULATED PLUMBING OR WATER SUPPLY TEMPERATURE LIMITED TO 43° TO PREVENT BURNS, FAUCET HANDLES OF THE LEVER TYPE OR AUTOMATICALLY OPERABLE ARE REQUIRED, AND MUST NOT BE SPRING-LOADED NOR LOCATED NO FURTHER THAN 455mm FROM THE CENTRE LINE TO THE FRONT EDGE OF THE BASIN OR VANITY.

WATER CLOSET & GRAB BARS

GRAB BARS

TWO ARE REQUIRED, ONE BEHIND THE WATER CLOSET, THE OTHER TO BE MOUNTED BESIDE THE WATER CLOSET. SEE THE ILLUSTRATION ABOVE FOR DIMENSIONING. GRAB BARS MUST BE SLIP RESISTANT, 30-40mm DIAMETER, AND MUST SUPPORT A LOAD UP TO I.3kN APPLIED VERTICALLY & HORIZONTALLY. GRAB BARS MUST BE ATTACHED WITH SCREWS WHICH PENETRATE AT LEAST 32mm INTO THE SOLID BLOCKING.

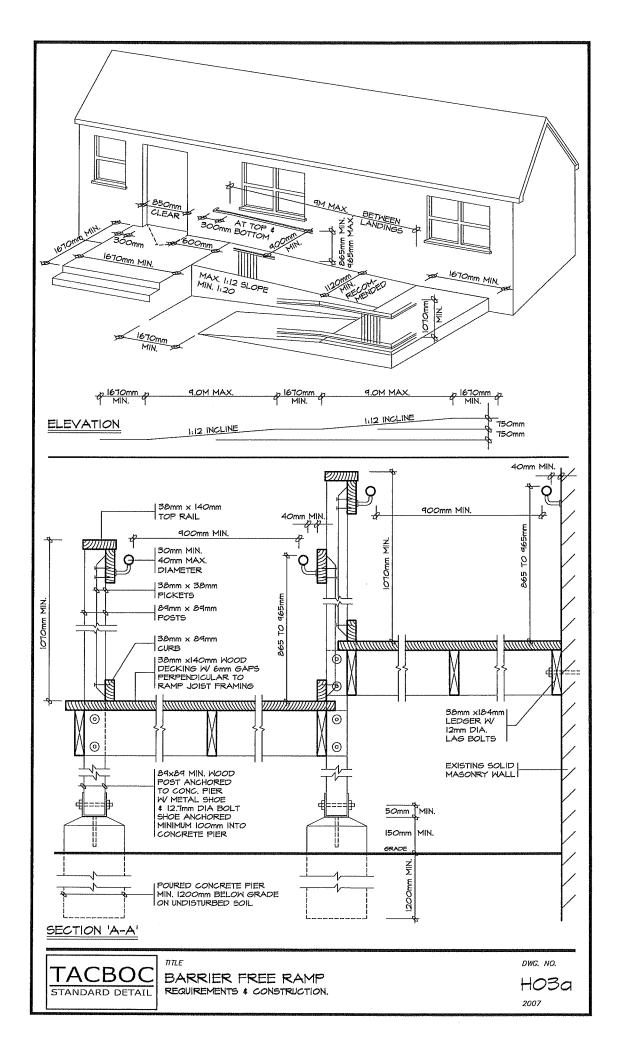
TACBOC STANDARD DETAIL

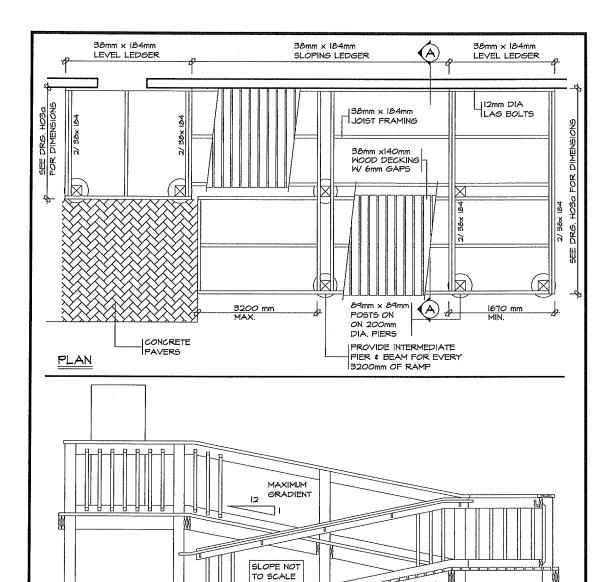
TITLE

UNIVERSAL BARRIER FREE TOILET ROOM

DWG. NO.

H02





GENERAL NOTES

CONCRETE PAVERS

SCREENING

COMPACTED

GRAVEL BASE

ELEVATION / SECTION

38mm LIMESTONE

1140mm

- I. A SITE PLAN OR SURVEY IS REQUIRED SHOWING ALL LOT LINES & DIMENSIONS, SIZE & LOCATION OF ALL BUILDINGS, LOCATION & SIZE OF RAMP & LANDING.
- 2. LUMBER NO. 2 SPF OR BETTER, WOOD POSTS MIN. 89X89 (SOLID). USE CORROSION RESISTANT SPIRAL NAILS OR SCREMS.
- CONCRETE PIERS SHALL BEAR ON UNDISTURBED SOIL. THE BEARING CAPACITY OF THE SOIL SHALL BE A MINIMUM 75kPa.
- 4. HANDRAILS, ON BOTH SIDES, W 30-40mm CIRCULAR CROSS SECTION OR IOO-155mm NON-CIRCULAR PERIMETER W MAX. 57mm CROSS SECTIONAL DIMENSION.
- 5. HANDRAILS MUST BE TERMINATED IN A MANNER THAT WILL NOT OBSTRUCT PEDESTRIAN TRAVEL OR CREATE A HAZARD.

38mm x 184mm JOIST FRAMING

PROVIDE AN

INTERMEDIATE

3200mm OF RAMP

PIER # BEAM

FOR EVERY

- 6. PROVIDE A MIN. 40mm CLEARANCE BETWEEN THE HANDRAIL AND THE MOUNTING SURFACE.
- 7. HANDRAILS/GUARDS SHALL BE DESIGNED AND CONSTRUCTED SUCH THAT THEY WILL WITHSTAND O.9KN POINT LOADS AND O.7KN/M UNIFORM LOADS FROM ANY DIRECTION.

TACBOC STANDARD DETAIL

TITLE

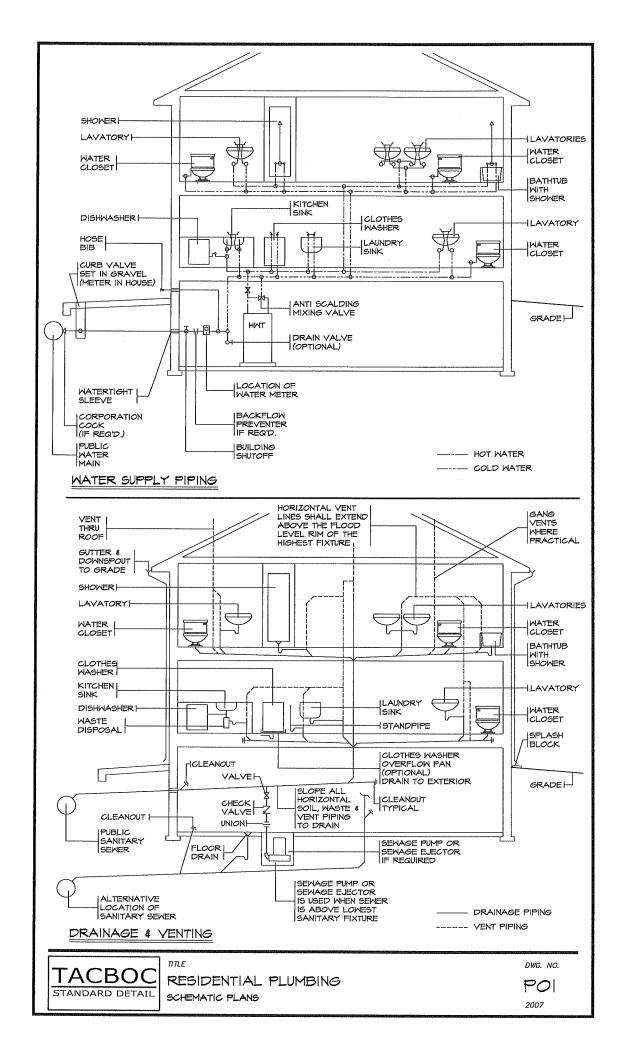
BARRIER FREE RAMP CONSTRUCTION DETAILS.

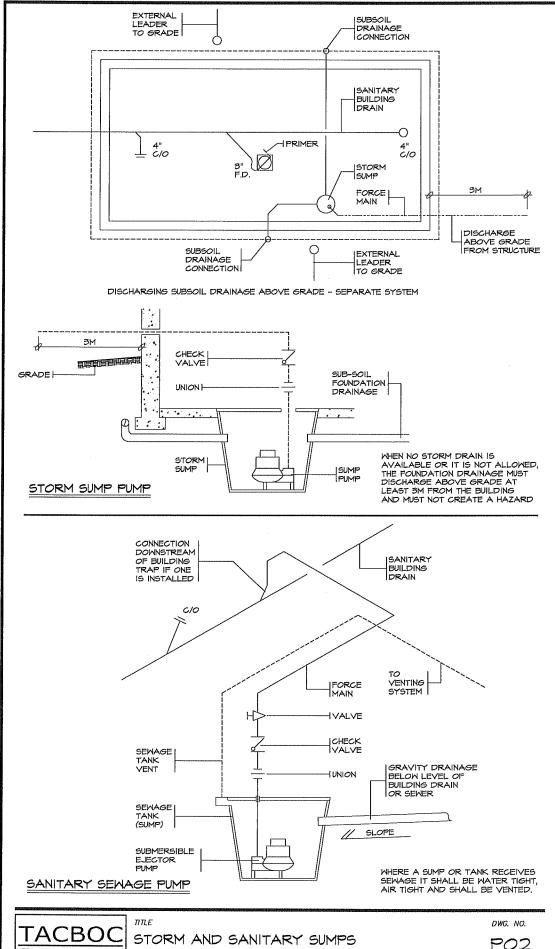
1140mm x 140mm

PRESSURE TREATED

DWG. NO.

H03b

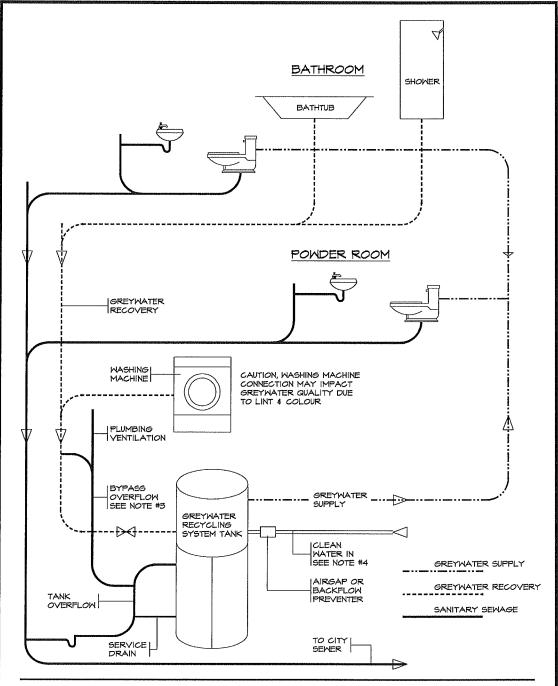




STANDARD DETAIL

SCHEMATIC PLANS

P02



NOTES:

- I. THE BUILDING CODE PERMITS TOILETS, URINALS AND TRAP SEALS TO BE SUPPLIED BY RECYCLING GREYWATER RATHER THAN BY THE POTABLE WATER SUPPLY SYSTEM, GREYWATER IS THE DISCHARGE FROM FIXTURES OTHER THAN TOILETS, URINALS, BIDETS OR OTHER SANITARY UNITS.
- THE GREYWATER SYSTEM MUST BE COMPLETELY SEPARATED FROM THE SANITARY DRAINAGE SYSTEM USING INDEPENDENT GREYWATER SUPPLY AND DRAINAGE PIPING, AS SHOWN ON THE SCHEMATIC DIAGRAM. ALL CONNECTED FIXTURES MUST BE CONNECTED AND VENTED ACCORDING TO THE BUILDING CODE.
- AN OVERFLOW PIPE CONNECTED TO A SANITARY DRAIN MUST BE INSTALLED FROM THE GREYWATER SUPPLY TANK WHICH INCORPORATES AN AIR GAP OR CHECK VALVE TO PREVENT CONTAMINATION IN THE EVENT OF A SANITARY SEWAGE BACKUP.
- 4. BACKUP POTABLE WATER SUPPLY TO THE GREYWATER SUPPLY TANK IS REQUIRED TO MAINTAIN SUPPLY IN THE EVENT CONNECTED FIXTURE DEMAND EXCEEDS THE TANK SUPPLY CAPACITY. THE POTABLE WATER SUPPLY PIPE MUST BE PROTECTED WITH AN AIR GAP OR TESTABLE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR.
- 5. A NON-POTABLE WATER SYSTEM SHALL NOT BE CONNECTED TO A POTABLE WATER SYSTEM
- 6. NON-POTABLE WATER SUPPLY PIPING SHALL BE IDENTIFIED BY MARKINGS THAT ARE PERMANENT, DISTINCT AND EASILY RECOGNIZED.
- 7. AN OUTLET FROM A NON-POTABLE WATER SYSTEM SHALL NOT BE LOCATED WHERE IT CAN DISCHARGE INTO A SINK OR LAVATORY, A FIXTURE INTO WHICH AN OUTLET FROM A POTABLE WATER SYSTEM IS DISCHARGED OR A FIXTURE THAT IS USED FOR A PURPOSE RELATED TO THE PREPARATION, HANDLING OR DISPENSING OF FOOD, DRINK OR PRODUCTS THAT ARE INTENDED FOR HUMAN CONSUMPTION.



TITLE

GREYWATER RECYCLING SCHEMATIC PLAN, NOTES

DWG. NO.



I. MATERIALS AND EQUIPMENT

- A 'T' FITTING SHALL NOT BE USED IN A DRAINAGE SYSTEM EXCEPT TO CONNECT A VENT PIPE.
- A CROSS FITTING SHALL NOT BE USED IN A DRAINAGE SYSTEM.
- NO 'Y', DOUBLE 'TY', DOUBLE 'T' OR DOUBLE WASTE FITTING SHALL BE INSTALLED IN A NOMINALLY HORIZONTAL SOIL OR WASTE PIPE.

2. DRAINAGE SYSTEM

- EVERY SANITARY DRAINAGE SYSTEM AND STORM DRAINAGE SYSTEM SHALL BE PROVIDED WITH CLEANOUTS THAT WILL PERMIT CLEANING OF THE ENTIRE SYSTEM
- A CLEANOUT FITTING SHALL BE PROVIDED ON THE UPSTREAM SIDE AND DIRECTLY OVER EVERY RUNNING TRAP.
 HORIZONTAL SOIL OR WASTE PIPE,
- WHERE THERE IS A CHANGE OF DIRECTION GREATER THAN 45 DEGREES IN A SANITARY BUILDING DRAIN OR SANITARY BUILDING SEWER, A CLEANOUT SHALL BE INSTALLED AT EACH CHANGE IN DIRECTION.
- EVERY SANITARY BUILDING DRAIN OR STORM BUILDING DRAIN SHALL BE PROVIDED WITH A CLEANOUT FITTING
 THAT IS LOCATED AS CLOSE AS PRACTICAL TO THE PLACE WHERE THE DRAIN LEAVES THE BUILDING.
- EVERY SOIL OR WASTE STACK SHALL BE PROVIDED WITH A CLEANOUT FITTING AT THE BOTTOM OF THE STACK.
- · A CLEANOUT SHALL BE INSTALLED ON A FIXTURE DRAIN SERVING A KITCHEN SINK.
- WHEN GRAVITY DRAINAGE TO A SANITARY DRAINAGE SYSTEM IS POSSIBLE, A FLOOR DRAIN SHALL BE INSTALLED IN A BASEMENT, FORMING PART OF A DWELLING UNIT.
- SANITARY UNITS, BATHTUBS AND SHOWER BATHS SHALL NOT BE INSTALLED ADJACENT TO WALL AND FLOOR SURFACES THAT ARE PERVIOUS TO WATER.
- EVERY FIXTURE SHALL BE PROTECTED BY A SEPARATE TRAP.
- PROVISION SHALL BE MADE FOR MAINTAINING THE TRAP SEAL OF A FLOOR DRAIN BY THE USE OF A TRAP SEAL PRIMER.
- EVERY DRAINAGE FIPE THAT HAS A SIZE OF 3 INCHES (15mm) OR LESS, AND EVERY FIXTURE DRAIN SHALL HAVE A DOWNWARD SLOPE IN THE DIRECTION OF FLOW OF AT LEAST | IN 50 (1/4 INCH PER FOOT).
- WHERE IT IS NOT POSSIBLE TO COMPLY WITH I IN 50 SLOPE A LESSER SLOPE MAY BE USED IF IT WILL PROVIDE A GRAVITY FLOW OF NOT LESS THAN 0.60M PER SECOND.
- EVERY SANITARY BUILDING DRAIN AND EVERY SANITARY BUILDING SEMER SHALL BE AT LEAST 4 INCHES IN SIZE.
- EVERY STORM BUILDING DRAIN AND EVERY STORM BUILDING SEWER SHALL BE AT LEAST 4 INCHES IN SIZE.
- INDIRECT CONNECTIONS OR ANY TRAP THAT MAY OVERFLOW SHALL NOT BE LOCATED IN A CRAWL SPACE OR ANY OTHER UNFREQUENTED AREA.
- THERE SHALL BE NO UNUSED OPEN ENDS IN A DRAINAGE SYSTEM AND DEAD ENDS SHALL BE SO GRADED THAT
 WATER WILL NOT COLLECT IN THEM.
- ONLY PIPING THAT IS TOO LOW TO DRAIN INTO A BUILDING SEWER BY GRAVITY SHALL BE DRAINED TO A SUMP OR RECEIVING TANK.
- WHERE THE SUMP OR TANK RECEIVES SANITARY SEWAGE IT SHALL BE WATER AND AIR-TIGHT AND SHALL BE VENTED.
- THE DISCHARGE PIPE FROM EVERY PUMPED SANITARY SEWAGE PUMP SHALL BE EQUIPPED WITH A UNION, A CHECK VALVE AND A SHUT-OFF VALVE INSTALLED IN THAT SEQUENCE IN THE DIRECTION OF DISCHARGE.
- A SUBSOIL DRAINAGE PIPE THAT DRAINS INTO A SANITARY DRAINAGE SYSTEM THAT IS SUBJECT TO SURCHARGE SHALL BE CONNECTED IN SUCH A MANNER THAT SEWAGE CANNOT BACK UP INTO THE SUBSOIL DRAINAGE PIPE.
- THE DEVELOPED LENGTH OF EVERY FIXTURE OUTLET PIPE SHALL NOT EXCEED 1200mm.
- WHERE CLOTHES WASHERS DO NOT DRAIN TO A LAUNDRY TRAY, THE TRAP INLET SHALL BE FITTED WITH A VERTICAL STANDPIPE THAT IS NOT LESS THAN 600mm LONG MEASURED FROM THE TRAP WEIR AND THE TOP OF THE STANDPIPE SHALL TERMINATE ABOVE THE FLOOD LEVEL RIM OF THE CLOTHES WASHER IT SERVES.

3. VENTING SYSTEM

- EVERY TRAP SHALL BE VENTED.
- EVERY SANITARY BUILDING DRAIN SHALL TERMINATE AT ITS UPSTREAM END IN A STACK OF AT LEAST 3 INCHES IN SIZE.
- A STACK SHALL BE A SOIL STACK IF ONE IS AVAILABLE AND MAY BE A VENT STACK OR WASTE STACK THAT
 PROVIDES AT LEAST 3 INCHES STACK VENT AND THAT GOES TO OPEN AIR ABOVE THE ROOF, EITHER DIRECTLY
 OR THROUGH A HEADER.
- EVERY SUMP OR TANK THAT RECEIVES SANITARY SEWAGE SHALL BE PROVIDED WITH A VENT PIPE THAT IS CONNECTED TO THE TOP OF THE SUMP OR TANK.
- THE MINIMUM SIZE OF THE VENT PIPE FOR A SANITARY SEWAGE PUMP OR TANK, OR DILUTION TANK SHALL BE ONE SIZE SMALLER THAN THE SIZE OF THE LARGEST BRANCH OR FIXTURE DRAIN DRAINING TO THE SUMP OR TANK.
- AIR ADMITTANCE VALVES SHALL ONY BE USED IN BUILDINGS UNDERGOING RENOVATION AND INSTALLATIONS WHERE CONNECTION TO A VENT MAY NOT BE PRACTICAL.
- INSTALLED AIR ADMITTANCE VALVES SHALL BE ACCESSABLE AND LOCATED IN A SPACE THAT ALLOWS AIR TO ENTER THE VALVE.

4. POTABLE WATER

- EVERY POTABLE WATER SYSTEM SHALL BE CAPABLE OF WITHSTANDING MITHOUT LEAKAGE A WATER PRESSURE
 THAT IS AT LEAST 1000 kPa (145 PSI) FOR AT LEAST I HOUR OR WITHSTANDING FOR AT LEAST 2 HOURS
 WITHOUT A DROP IN PRESSURE, AN AIR PRESSURE THAT IS AT LEAST 700 kPa (102 PSI).
- EVERY FIXTURE SUPPLIED WITH SEPARATE HOT AND COLD WATER CONTROLS SHALL HAVE THE HOT WATER CONTROL ON THE LEFT AND THE COLD ON THE RIGHT.
- A BUILDING CONTROL VALVE SHALL BE PROVIDED ON EVERY WATER SERVICE PIPE AT THE LOCATION WHERE THE WATER SERVICE PIPE ENTERS THE BUILDING.
- EVERY WATER CLOSET SHALL BE PROVIDED WITH A SHUT-OFF VALVE ON ITS WATER SUPPLY PIPE.
- EVERY WATER PIPE THAT SUPPLIES A HOT WATER TANK, PRESSURE VESSEL, PLUMBING APPLIANCE OR WATER USING DEVICE SHALL BE PROVIDED WITH A SHUT OFF VALVE LOCATED CLOSE TO THE TANK, PRESSURE VESSEL, PLUMBING APPLIANCE OR WATER USING DEVICE.
- EVERY PIPE THAT PASSES THROUGH AN EXTERIOR WALL TO SUPPLY WATER TO THE EXTERIOR OF THE BUILDING SHALL BE PROVIDED WITH A FROST-PROOF HYDRANT WITH A SEPARATE SHUT-OFF VALVE OR A STOP-AND-WASTE COCK LOCATED INSIDE THE BUILDING AND CLOSE TO THE WALL.
- WHERE A HOSE BIB IS INSTALLED OUTSIDE A BUILDING, INSIDE A GARAGE OR WHERE THERE IS AN IDENTIFIABLE RISK OF CONTAMINATION, THE POTABLE WATER SYSTEM SHALL BE PROTECTED AGAINST BACKFLOW BY A BACKFLOW PREVENTER.
- NO WATER SYSTEM BETWEEN THE POINT OF CONNECTION WITH THE WATER SERVICE PIPE OR THE WATER METER AND THE FIRST BRANCH THAT SUPPLIES A WATER HEATER SHALL BE LESS THAN 8/4 INCH IN SIZE.
- EVERY WATER SERVICE PIPE SHALL NOT BE LESS THAN 3/4 INCH IN TRADE SIZE.
- A CHECK VALVE SHALL BE INSTALLED AT THE BUILDING END OF THE WATER SERVICE PIPE WHERE THE PIPE IS MADE OF PLASTIC THAT IS SUITABLE FOR COLD WATER USE ONLY.
- PROTECTION AGAINST THERMAL EXPANSION SHALL BE REQUIRED WHEN A CHECK VALVE, A BACKFLOW PREVENTER OR
 A PRESSURE REDUCING VALVE IS REQUIRED.

5. HOT WATER TEMPERATURE CONTROL

SHOWER VALVES SHALL BE PRESSURE BALANCED OR THERMOSTATIC MIXING VALVES, A PRESSURE BALANCED OR THERMOSTATIC MIXING VALVE SHALL NOT BE REQUIRED FOR SHOWERS WHERE THE HOT WATER SUPPLY FOR SHOWERS, ARE CONTROLLED BY A MASTER THERMOSTATIC MIXING VALVE, PRESSURE BALANCED OR THERMOSTATIC MIXING VALVES SHALL BE DESIGNED SUCH THAT THE CUTLET TEMPERATURE DOES NOT EXCEED 49°C (120°F).



TITLE

SPECIFICATIONS-PLUMBING

DWG. NO.

Excavation and Backfill

- Excavation shall be undertaken in such a manner so as to prevent damage to existing structures, adjacent property and utilities
- The topsoil and vegetable matter in unexcavated areas under a building shall be removed. The bottom of excavations for foundations shall be free of all organic material
- If termites are known to exist, all stumps, roots and wood debris shall be removed to a minimum depth of 300mm in excavated areas under a building, and the clearance between untreated structural wood elements and the ground shall be no less than 450mm
- Backfill within 600mm of the foundation walls shall be free of deleterious debris and boulders over 250mm in diameter

Dampproofing and Drainage

- In normal soil conditions, the exterior surfaces of foundation walls enclosing basements and crawl spaces shall be dampproofed. Where hydrostatic pressure occurs, a waterproofing system is required
- Masonry foundation walls shall be parged with 6mm of mortar coved over the footing prior to dampproofing
- IOOmm dia. foundation drains shall be laid on level, undisturbed ground adjacent to the footings at or below the top of the basement slab or crawl space floor, and shall be covered with ISOmm of crushed stone. Foundation drains shall drain to a storm sewer, drainage ditch, dry well or sump
- Window wells shall be drained to the footing level or to a ditch or sump pump.
- Downspouts not directly connected to a storm sewer shall have extensions to carry water away from the building, and provisions shall be made to prevent soil erosion
- Concrete slabs in attached garages shall be sloped to drain to the exterior
- The building site shall be graded so that surface, sump and roof drainage will not accumulate at or near the building and will not adversely affect adjacent properties

Footings

- minimum 15MPa poured concrete
- minimum 1200mm below finished grade
- Footings shall be founded on natural undisturbed soil, rock or compacted granular fill with minimum bearing capacity of 75kPa IOOkPa for ICF

Footing Size

Floors	Supporting	Supporting	Column
Supported	Ext. Wall	Int. Wall	Area
1	25 <i>0</i> mm	200mm	0.40m2
2	35 <i>0</i> mm	350mm	0.75m2
3	450mm	500mm	1.00m2

- Increase exterior footing width by 65mm for each storey of brick veneer supported, by 130mm for each storey of masonry and by 150mm for ICF
- Increase interior footing width by Oommfor each storey of masonry above footing, and by IOOmm for each 2700mm of wall height above 5500mm
- The projection of an unreinforced footing beyond the wall supported shall not be greater than its thickness

Step Footings

600mm max. rise
 600mm min. run

Foundation Walls

- To be poured concrete, unit masonry, ICF or preserved wood (see drawings for type and thickness)
- Dampproofing shall be a heavy coat of bituminous material.
- Foundation wall to extend minimum 150mm above finished grade.
- A drainage layer is required on the outside of a foundation wall where the interior insulation extends more than 900mm below exterior grade. A drainage layer shall consist of
 - Min. I9mm mineral fibre insulation with min.
 Density of 57 kg/m³
 - Min. loomm of free drainage granular material, or
 - An approved system which provides equivalent performance
- Foundation walls shall be braced or have the floor joists installed before backfilling

Concrete Floor Slabs

- Garage, carport and exterior slabs and exterior steps shall be 32MPa concrete with 5-8% air entrainment
- Basement slab 25MPa concrete, minimum 75mm thick, placed on a minimum 100mm of coarse, clean, granular material
- All fill other than coarse clean material placed beneath concrete slabs shall be compacted to provide uniform support

Masonry Walls

- Where constructed of 90mm brick, wall shall be bonded with a header course every 600mm o/c vertically and horizontally and 900mm o/c for block or tile.
- Provide 50mmsolid masonry, concrete filled top course or continuous 38x89 wood plate under all roof and floor framing members
- Provide I90mm solid masonry under beams and columns
- Masonry wall to be tied to each tier of joists with 40mm x 4.76mm corrosion resistant steel straps, keyed minimum IOOmm into masonry. When joists are parallel to wall, ties are to extend across at least 3 joists @ 2000mm o.c.
- Inside of wall to be parged and covered with No. 15 breather-type asphalt paper
- For reduced foundation walls to allow a brick facing while maintaining lateral support, tie minimum 90mm brick to minimum 90mm backup block with corrosion resistant ties at least 17.8mm² in cross sectional area, spaced 200mm vertically and 900mm horizontally, with joints completely filled with mortar
- Masonry over openings shall be supported on corrosion resistant or prime painted steel lintels with a minimum of i50mm end bearing

Masonry Veneer

- Minimum 70mm thick if joints are not raked and 90mm thick if joints are raked
- Minimum 25mm air space to sheathing
- Provide weep hole's @ 800mm o.c. at the bottom of the cavity and over doors and windows
- Direct drainage through weep holes with 0.5mm poly flashing extending minimum I50mm up behind the sheathing paper
- Veneer ties minimum 0.16mm thick x 22mm wide corrosion resistant straps spaced @ 500mm vertically and 600mm horizontally
- Fasten ties with corrosion resistant 3.18mm diameter screws or spiral nails which penetrate at least 30mm into studs



TITI F

SPECIFICATION - BUILDING CODE STANDARDS EXCAVATION, CONCRETE & MASONRY

DWG. NO.



Wood Frame Construction

- All lumber shall be spruce-pine-fir No. 1 \$ 2, and shall be identified by a grade stamp
- Maximum moisture content 19% at time of installation
- Wood framing members which are supported on concrete in direct contact with soil shall be separated from the concrete with O.05mm polyethylene or type '5' roll roofing

Walls

- Exterior walls shall consist of:
 - cladding
 - air barrier system lapped IOOmm at joints
- lumber, plywood, OSB or gypsum sheathing
- 38x140 studs @ 400mm o.c.
- RSI 3.34 insulation
- · 38x140 bottom plate
- 38x140 double top plate
- Interior loadbearing walls shall consist of:
- 38x89 studs @ 400mm o.c.
- 38x98 bottom plate and double 38x89 top plate
- 38x89 mid-girt's if not sheathed
- 12.7mm aupsum board sheathing

Floors

- See SOId for floor joist size and spacing requirements
- Joists to have minimum 32mm of end bearing
 Joists shall bear on a sill plate fixed to
- Joists shall bear on a sill plate fixed to foundation with 12.7mm anchor bolts @ 2400mm o.c
- Header joists between 1200mm and 3200mm in length shall be doubled. Header joists exceeding 3200mm shall be sized by calculations
- Trimmer joists shall be doubled when supported header is between 800mm and 2000mm. Trimmer joists shall be sized by calculations when supported header exceeds 2000mm
- 38x38 cross bridging required not more than 2100mm from each support and from other rows of bridging
- Joists shall be supported on joist hangers at all flush beams, trimmers, and headers.
- Non-loadbearing partitions shall be supported on a joist or on blocking between joists.
- See 501d for subflooring requirements

Roof & Ceilings

- See SOld for rafter, roof joist and celling joist size and spacing requirements
- Hip and valley rafter shall be 30mm deeper than common rafters
- 38x89 collar ties @ rafter spacing with 19x89 continuous brace at mid span if collar tie exceeds 2400mm in lenath
- See SOld for roof sheathing requirements

Notching & Drilling of Trusses, Joists, Rafters

- Holes in floor, roof and ceiling members to be not larger than 1/4 the actual depth of member and not less than 50mm from edges
- Notches in floor, roof and ceiling members to be located on top of the member within I/2 the actual depth from the edge of bearing and not greater than I/3 the joist depth
- Wall study may be notiched or drilled provided that no less than 2/3 the depth of the stud remains, if load bearing, and 40mm if non-load bearing
- Roof truss members shall not be notched, drilled or weakened unless accommodated in the design

Roofing

- Fasteners for roofing shall be corrosion resistant.
 Roofing nails shall penetrate through or at least 12mm into roof sheathing
- Every asphalt shingle shall be fastened with at least 4 nails for 1000mm wide shingle (or 6 Ilmm staples)
 - Eave protection shall extend 400mm up the roof slope from the edge, and at least 300mm from the inside face of the exterior wall, and shall consist of Type M or Type S Roll Roofing laid with minimum 100mm head and end lops cemented together, or glass Fibre or Polyester Fibre coated base sheets, or self sealing composite membranes consisting of modified bituminous coated material or NO.15 saturated felt lapped and cemented. Eave protection is not required for unheated buildings, for roofs exceeding a slope of I in 1.5, or where a low slope asphalt shingle application is provided
- Open valleys shall be flashed with 2 layers of roll roofing, or 1 layer of sheet metal min.
 600mm wide
- Flashing shall be provided at the intersection of shingle roofs with exterior walls and chimneys
- Sheet metal flashing shall consist of not less than I.73mm sheet lead, 0.33mm galvanized steel, 0.33mm copper, 0.35mm zinc, or 0.48mm aluminum

Columns, Beams & Lintels

- Steel beams and columns shall be shop primed 350W steel.
 - Minimum 89mm end bearing for wood and steel beams, with 190mm solid masonry beneath the beam
- Steel columns to have minimum outside diameter of 73mm and minimum wall thickness of 4.76mm
- Wood columns for carports and garages shall be minimum 84mm x 84mm; in all other cases either 140mm x 140mm or 184mm round, unless calculations based on actual loads show lesser sizes are adequate. All columns shall be not less than the width of the supported member
- Masonry columns shall be a minimum of 290mm x 290mm or 240mm x 380mm
- Provide solid blocking the full width of the supported member under all concentrated loads

Insulation & Weatherproofing

Ceiling with attic		RSI	7.00
Roof without attic		RSI	4.93
Exterior Wall		RSI	3.34
Foundation Wall		RSI	2.11
Foundation > 50% ex	xposed	RSI	3.34
Exposed Floor	'	RSI	4.40
Slabs on Grade	(unheated)	RSI	1.41
	(heated)	RSI	1.76

- Supply Ducts in unheated space R51 2.11
 Insulation shall be protected with gypsum board
 or an equivalent interior finish, except for
 unfinished basements where 0.15mm poly is
 sufficient for fibreglass type insulations
- Ducts passing through unheated space shall be made airtight with tape or sealant
- Caulking shall be provided for all exterior doors and windows between the frame and the exterior cladding
- Weatherstripping shall be provided on all doors and access hatches to the exterior, except doors from a garage to the exterior
- Exterior walfs, ceilings and floors shall be constructed so as to provide a continuous barrier to the passage of water vapour from the interior and to the leakage of air from the exterior



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SPECIFICATION - BUILDING CODE STANDARDS WOOD FRAME CONSTRUCTION & INSULATION

DWG. NO.



Natural Ventilation

- Every roof space above an insulated ceiling shall
- be ventilated with unobstructed openings equal to not less than I/300 of the insulated ceiling area
- Insulated roof spaces not incorporating an attic shall be ventilated with unobstructed openings equal to not less than I/150 of the insulated ceiling area.
- Roof vents shall be uniformly distributed with min. 25% at top of the space and 25% at bottom of the space designed to prevent the entry of rain, snow or insects
- Unheated crawl spaces shall be provided with O.lm² of ventilation for each 50m²
- Minimum natural ventilation areas, where mechanical ventilation is not provided, are: Bathrooms: 0.09m² other rooms: 0.28m²

Unfinished basement: 0.2% of floor area

Doors and Windows

- Every floor level containing a bedroom and not served by an exterior door shall contain at least I window having an unobstructed open area of 0.35m² and no dimension less than 380mm, which is openable from the inside without tools. Maximum sill height 1000mm for fin. floors above grade.
- Exterior house doors and windows within 2000mm from grade shall be constructed to resist forced entry. Doors shall have a deadbolt lock
- The principal entry door shall have either a door viewer, transparent glazing or a sidelight

Exterior Walls

- No windows or other unprotected openings are permitted in exterior walls less than 1200mm from property lines
- 15.9mm type 'x' fire rated drywall shall be installed on the inside face of attached garage exterior walls and gable ends of roofs which are less than 1200mm and not less than 600mm from property lines
- Non combustible cladding shall be installed on all exterior walls less than 600mm from property lines

Ceramic Tile

 When ceramic tile is applied to a mortar bed with adhesive, the bed shall be a minimum of 12.5mm thick & reinforced with galvanized diamond mesh lath, applied over polyethylene on subflooring on joists at no more than 400mm o.c. with at least 2 rows cross bridging

Access to Attics and Crawl Spaces

- Access hatch minimum 545mmx 588mm to be provided to every roof space which is IOm² or more in area and more than 600mm in height
- Access hatch minimum 500mmx 700mm to be provided to every crawl space

Garage Gasproofing

- The walls and ceiling of an attached garage shall be constructed and sealed so as to provide an effective barrier to exhaust fumes
- All plumbing and other penetrations through the walls and celling shall be caulked
- Doors between the dwelling and attached garage may not open into a bedroom and shall be weatherstripped and have a self-closer

Alarms and Detectors

- At least one smoke alarm shall be installed on or near the celling on each floor and basement level 900mm or more above an adjacent level
- Smoke alarms shall be interconnected and located such that one is within 5m of every bedroom door and no more than 15m travel distance from any point on a floor
- A carbon monoxide detector shall be installed adjacent to every sleeping area for dwellings with fuel burning fireplace or stove, or an attached garage

Stairs

Maximum Rise 200mm
Minimum Run 210mm

Minimum TreadMinimum Head Room1950mm

Minimum Width

Curved stairs shall have a min. run of 150mm at
any point and a minimum average run of 200mm

- Winders which converge to a point in stairs must turn through an angle of no more than 90°, with no less than 30° or more than 45° per tread. Sets of winders must be separated by 1200mm along the run of the stair
- A landing is required at the top of any stair leading to the principal entrance to a dwelling and other exterior entrances with more than 3 risers
- Exterior concrete stairs with more than 2 risers require foundations

Handrails and Guards

- A handrall is required for interior stairs containing more than 2 risers and exterior stairs containing more than 3 risers
- Guards are required around every accessible surface which is more than 600mm above the adjacent level and where the adjacent surface has a slope more than 1:2
- Interior and exterior guards min. 900mm high.
 Exterior guards shall be 1070mm high where height above adjacent surface exceeds 1800mm
- Guards shall have openings smaller than IOOmm and no member between I4Omm and 9OOmm that will facilitate climbing

Plumbing

- Every dwelling requires a kitchen sink, lavatory, water closet, bathtub or shower stall and the installation or availability of laundry facilities
- A floor drain shall be installed in the basement, and connected to the sanitary sewer where gravity drainage is possible. In other cases, it shall be connected to a sewage ejection pump.

Electrical

- An exterior light controlled by an interior switch is required at every entrance
- A light controlled by a switch is required in every kitchen, bedroom, living room, utility room, laundry room, dilning room, bathroom, vestibule, hallway, garage and carport. A switched receptacle may be provided instead of a light in bedrooms and living rooms
- Stairs shall be lighted, and except where serving an unfinished basement shall be controlled by a 3 way switch at the head and foot of the stairs
- Basements require a light for each 30m², controlled by a switch at the head of the stairs

Mechanical Ventilation

- A mechanical ventilation system is required with a total capacity at least equal to the sum of:
- IO.O L/S each for basement and master bedroom
 5.0 L/S for each other room
- A principal dwelling exhaust fan shall be installed and controlled by a centrally located switch identified as such
- Supplemental exhaust shall be installed so that the total capacity of all kitchen, bathroom and other exhausts, less the principal exhaust, is not less than the total required capacity
- A Heat Recovery Ventilator may be employed in lieu of exhaust to provide ventilation. An HRV is required if any solid fuel burning appliances are installed
- Supply air intakes shall be located so as to avoid contamination from exhaust outlets

TACBOC STANDARD DETAIL TITLE

SPECIFICATION - BUILDING CODE STANDARDS GENERAL INFORMATION, ELECTRICAL, MECHANICAL

DWG. NO.



ROOF RAFTERS (WHERE NO CEILING IS INSTALLED)

			MAXIMUM CL	EAR SPAN (M)	
	ROOF SNOW LOAD 1.0 kPa RAFTER SPACING (mm) O.C.			ROOF SNOW LOAD 1.5 kPa RAFTER SPACING (mm) O.C.		
RAFTER SIZE						
	300	400	600	300	400	600
38×89	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.(1	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)							
	RO	OF SNOW LOA	SNOW LOAD I.O KPa		ROOF SNOW LOAD 1.5 kPa		
JOIST SIZE	JOIST SPACING (mm) O.C.			JOIST SPACING (mm) O.C.			
	300	400	600	300	400	600	
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	
38×184	5.11	4.64	4.05	4.46	4.05	3.54	
38×235	6.52	5.43	5.18	5.70	5.18	4.52	

FLOOR JOISTS

				M.	AXIMUM	1 CLEAF	R SPAN	1 (M)				
JOIST	19x64mm STRAPPING OR DRYWALL CLG.		38x38mm CROSS BRIDGING		BOTH STRAPPING # BRIDGING		38-51mm CONCRETE TOPPING					
SIZE	JOIST	SPACIN	16 (mm)	JOIST	SPACI	NG (mm)	JOIST	SPACII	NG (mm)	JOIST	SPACI	NG (mm)
	300	400	600	300	400	600	300	400	600	300	400	600
38×89	1.86	1.72	1.58	1.44	اع.ا	1.58	1.99	1.81	1.58	1.99	1.81	1.58
38×140	2.42	2.71	2.49	5.14	2.85	2.49	3.14	2.85	2.49	3.14	2.85	2.49
38x184	3.54	3.36	3.20	5.81	3.58	3.27	3.44	3.72	3.27	4.12	3.75	3.27
38×235	4.17	3.96	3.77	4.44	4.17	3.92	4.60	4.29	4.00	5.27	4.79	4.13
38×286	4.75	4.52	4.50	5.01	4.71	4.42	5.17	4.82	4.49	6.23	5.81	4.79

CEILING JOISTS

SUBFLOORING

MAXIMUM CLEAR SPAN (M)						
JOIST	JOIST SPACING (mm) O.C.					
SIZE	300	400	600			
38×89	3 .II	2.83	2.47			
38x140	4.90	4.45	3.89			
38x184	6.44	5.85	5.11			
38×235	8.22	7.47	6.52			

FLOOR JOIST	SUBFLOORING MIN. THICKNESS (mm)					
UP TO (mm) O.C.	PLYWOOD	WAFER BD.	LUMBER			
400	15.5	15.9	17.0			
500	15.5	15.9	19.0			
600	18.5	19.0	19.0			

ROOF SHEATHING

ROOF FRAMING (mm) o.c.	ROOF SHEATHING MIN. THICKNESS UNSUPPORTED EDGES (mm)	ROOF SHEATHING MIN. THICKNESS TONGUE & GROOVE, 'H'-CLIPS (MM) OR OTHER EDGE SUPPORT
300	7.5 PLYWOOD, 9.5 WAFER BD. OR 17.0 LUMBER	7.5 PLYWOOD, 9.5 WAFER BD. OR 17.0 LUMBER
400	9.5 PLYWOOD, II.I WAFER BD. OR IT.O LUMBER	7.5 PLYWOOD, 9.5 WAFER BD. OR 17.0 LUMBER
600	I2.5 PLYWOOD OR I9.0 LUMBER	9.5 PLYWOOD, II.I WAFER BD. OR 19.0 LUMBER

GENERAL NOTES

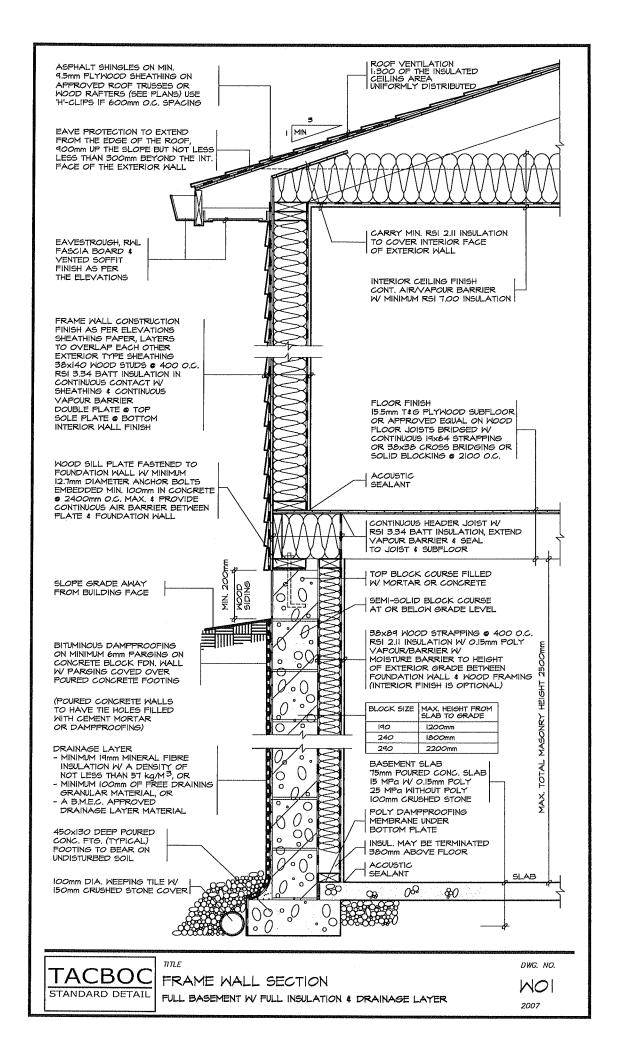
- ALL LUMBER TO BE NO. 1 \$2 SPF OR BETTER
- STRAPPING & CROSS BRIDGING MAXIMUM 2100mm FROM END SUPPORT & OTHER ROWS OF STRAPPING & BRIDGING.
- CEILING JOIST TABLE MAY BE APPLIED ONLY WHERE ATTIC IS NOT ACCESSIBLE BY A STAIRWAY.
- WHERE FINISHED FLOORING CONSISTS OF 19mm WOOD STRIPS, SUBFLOOR MAY BE REDUCED TO 12.7mm.

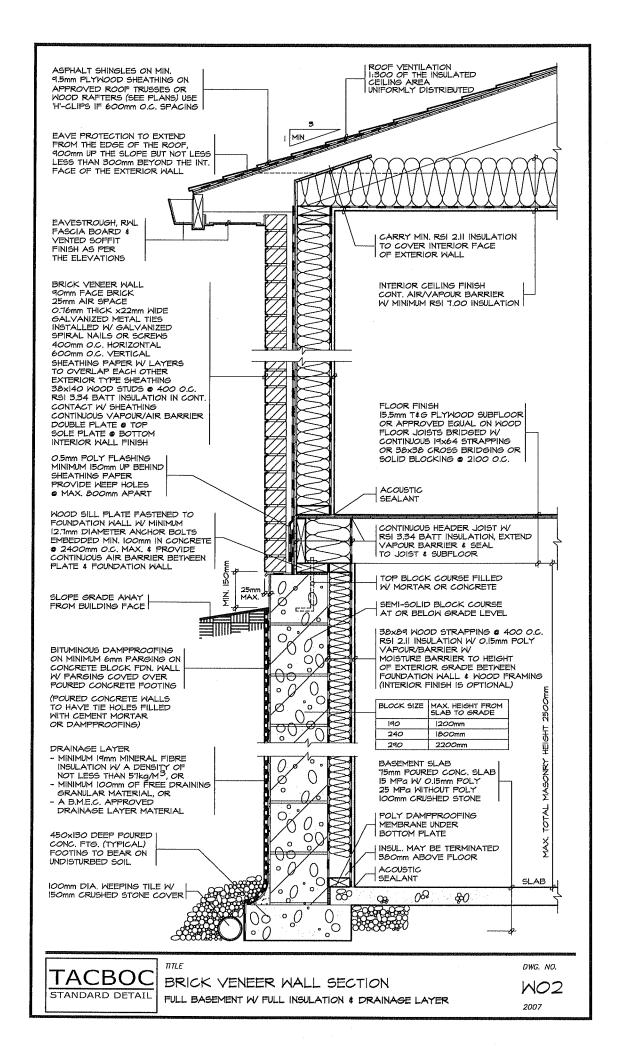
TACBOC STANDARD DETAIL

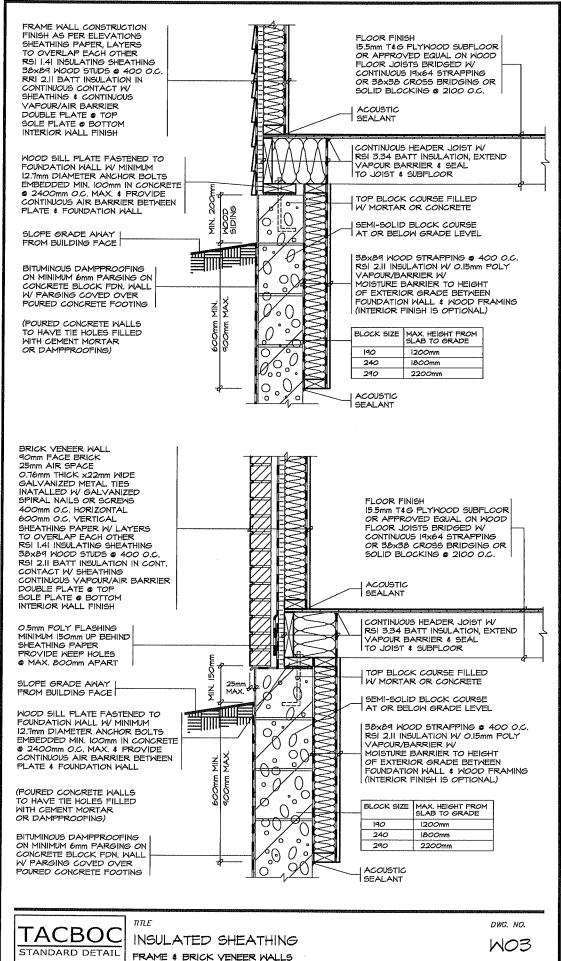
SPECIFICATION - BUILDING CODE STANDARDS STRUCTURAL SPAN TABLES & NOTES

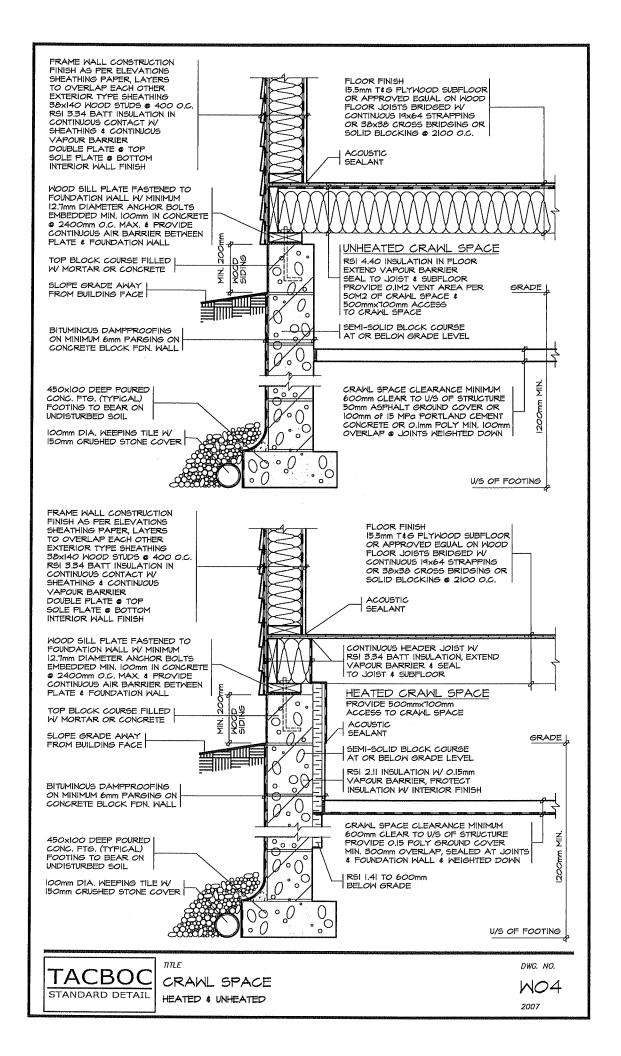
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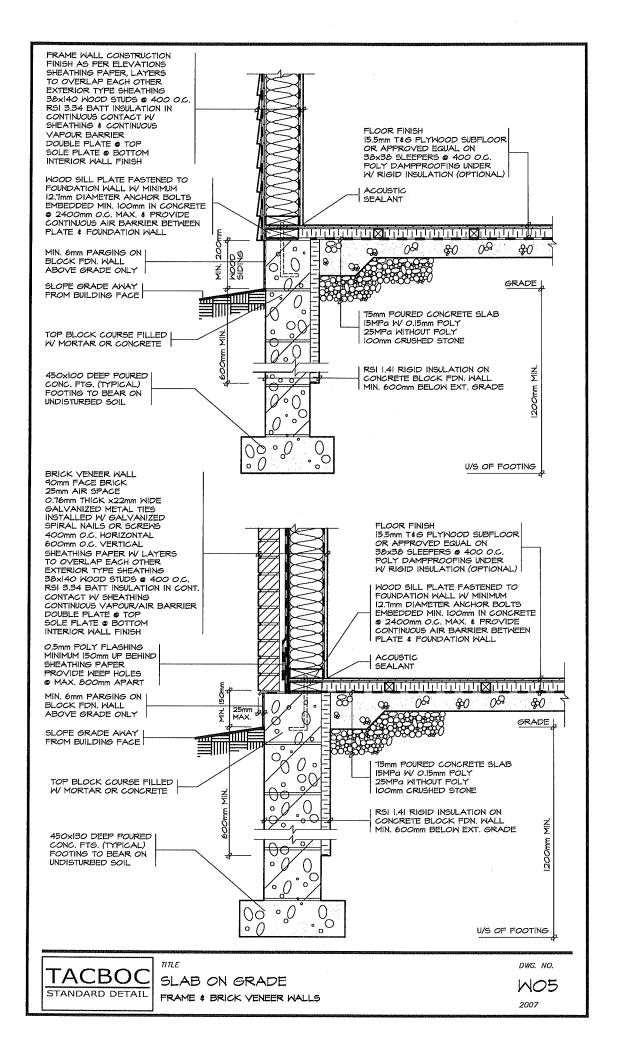
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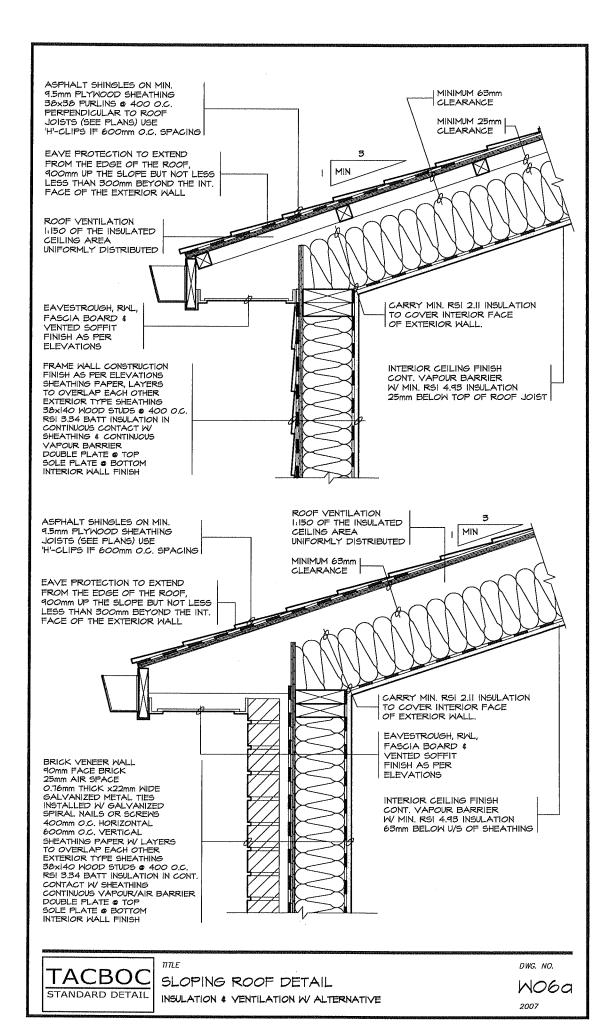


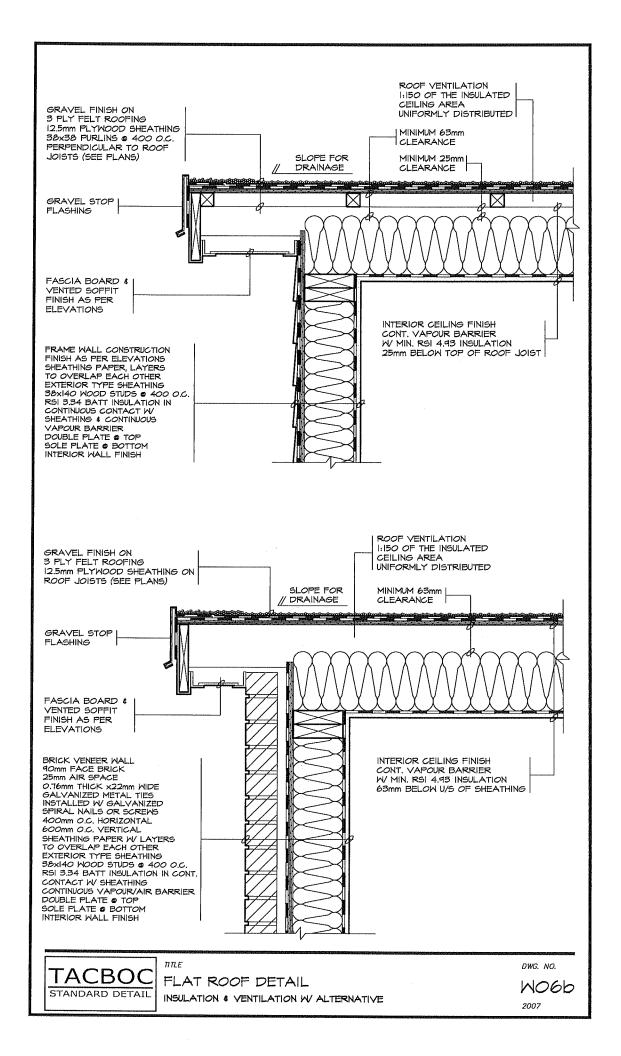


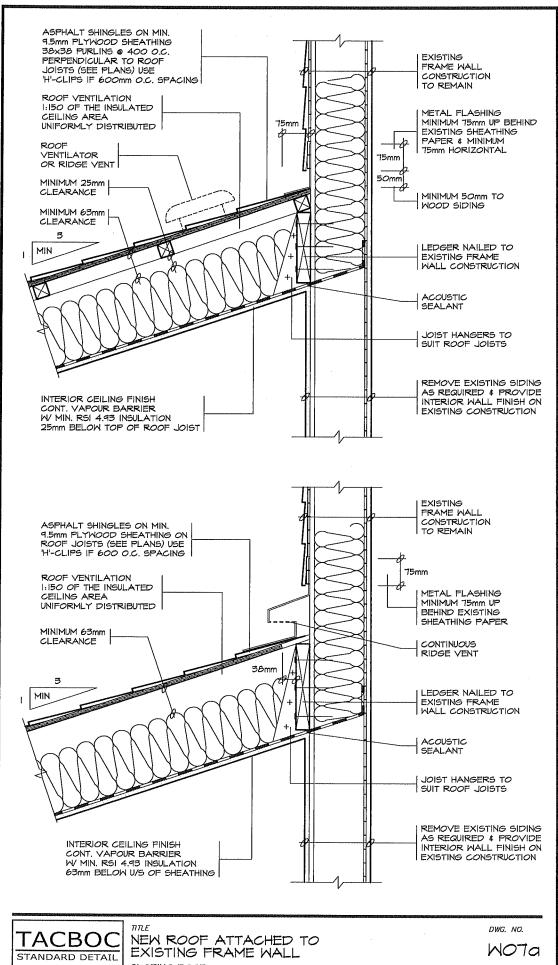




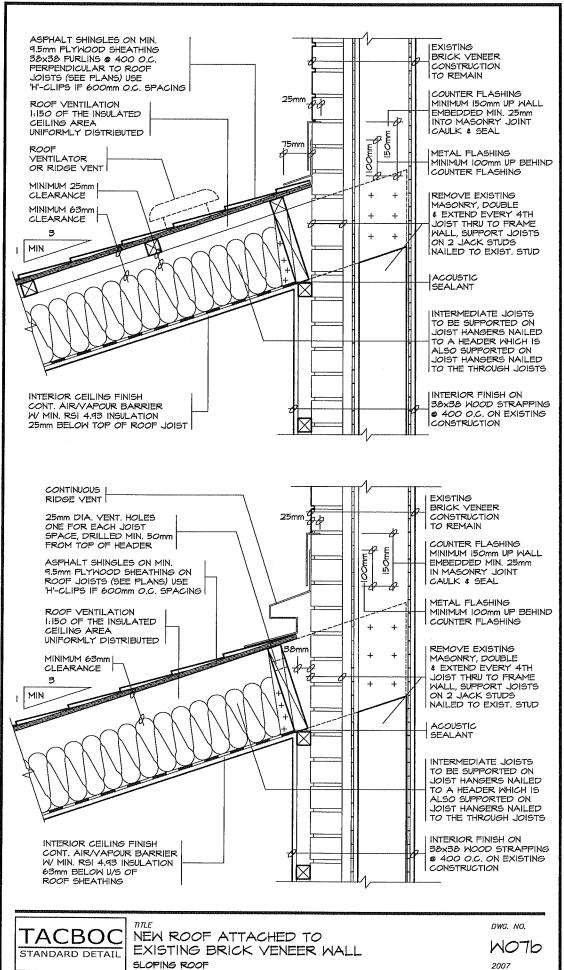


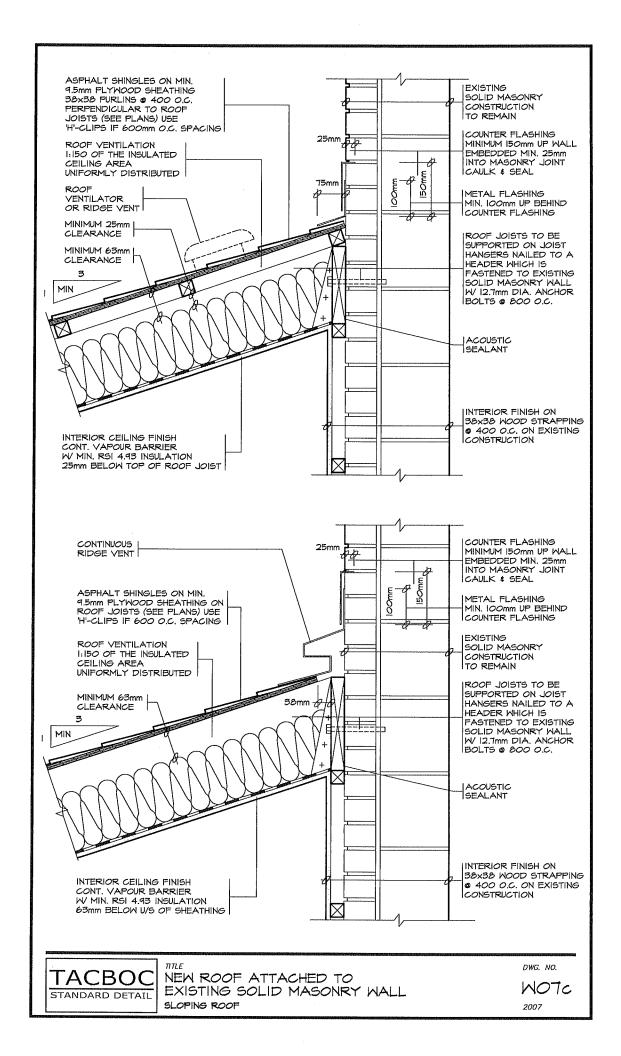


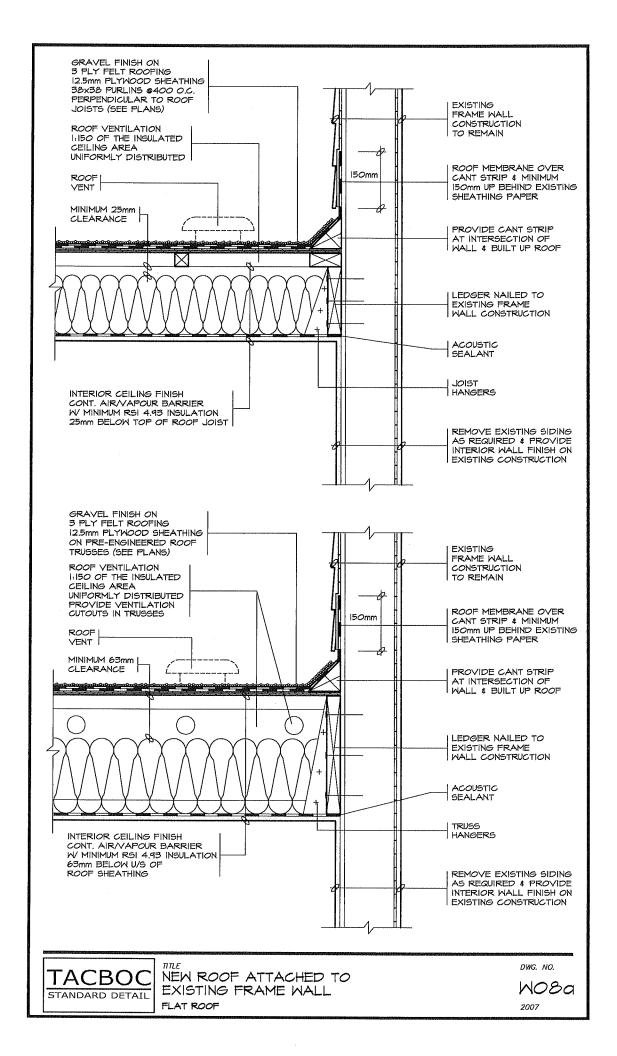


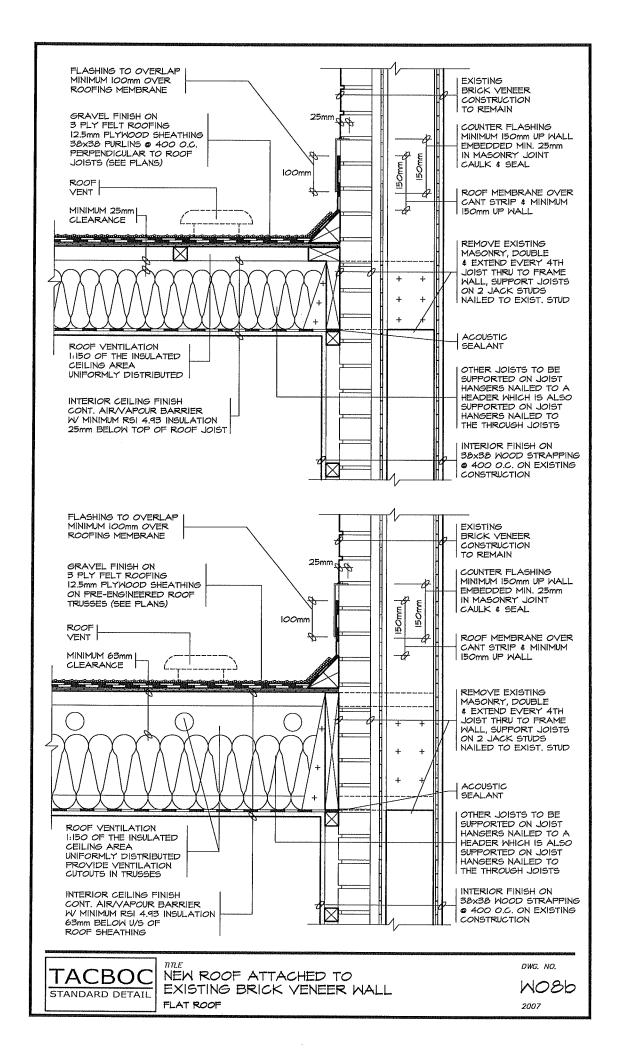


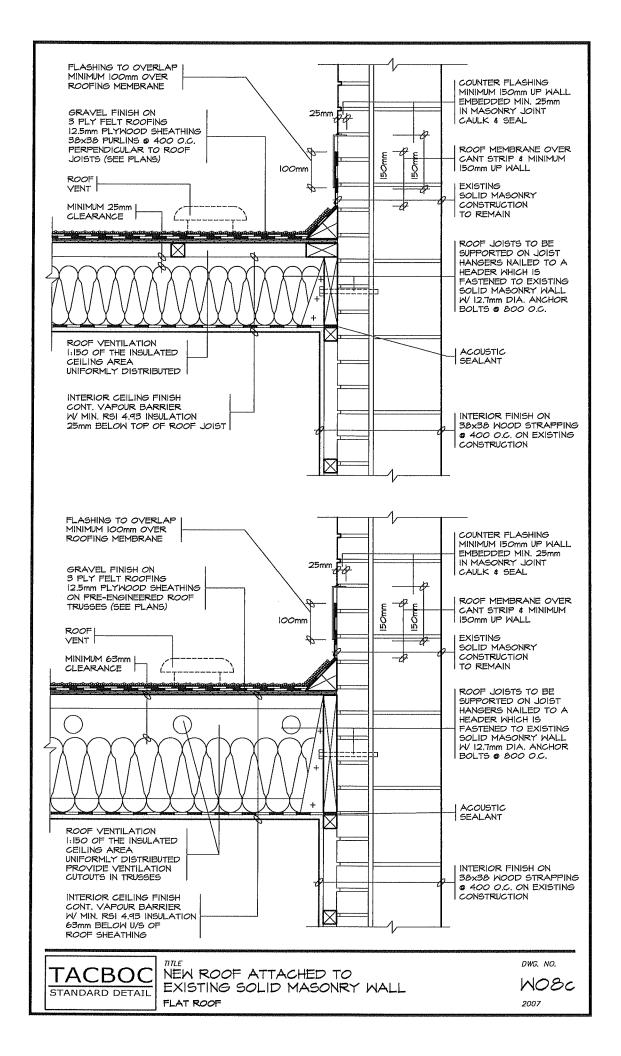
SLOPING ROOF

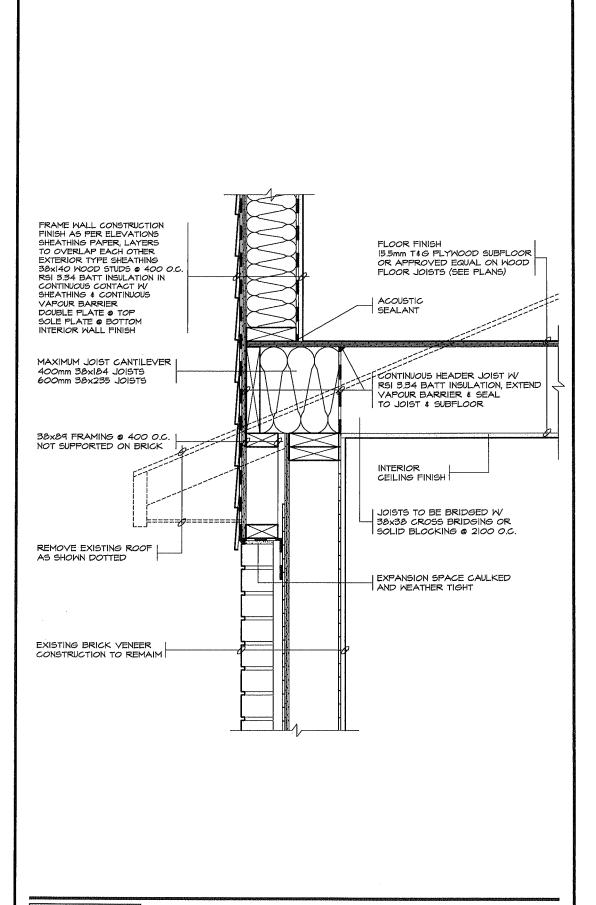












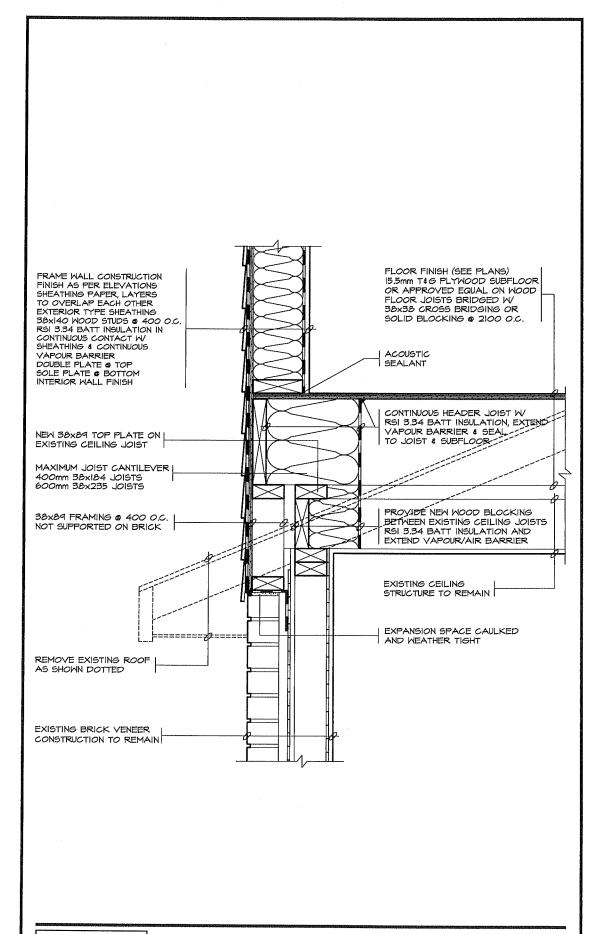
TACBOC STANDARD DETAIL

ΠΤΙΕ

SECOND STOREY ADDITION CEILING REPLACEMENT

DWG. NO.

W09a





TITLE

SECOND STOREY ADDITION MAINTAIN EXISTING CEILING

DWG. NO.

M09b

