FRONT ELEVATION 'A'

FRONT ELEVATION 'B'

Drawing List:

A0 TITLE SHEET
A1 BASEMENT FLOOR ELEV. 'A'
A2 GROUND FLOOR ELEV. 'A'
A3 SECOND FLOOR ELEV. 'A'
A4 PARTIAL BASEMENT FLOOR W/ FINISHED STAIR ELEV. 'A' & 'B'
PARTIAL GROUND FLOOR W/ FINISHED STAIR ELEV. 'A' & 'B'
A5 PARTIAL BASEMENT FLOOR ELEV. 'B'
PARTIAL GROUND FLOOR ELEV. 'B'
A6 PARTIAL SECOND FLOOR ELEV. 'B'
A7 FRONT ELEVATION 'A'
A8 RIGHT SIDE ELEVATION 'A'
A9 LEFT SIDE ELEVATION 'A'
A10 REAR ELEVATION 'A' & 'B'
A11 FRONT ELEVATION 'B'
A12 RIGHT SIDE ELEVATION 'B'
A13 LEFT SIDE ELEVATION 'B'
D1 CONSTRUCTION NOTES
D2 CONSTRUCTION NOTES
D3 CONSTRUCTION NOTES

Areas:

		ELEVATION 'A'		ELEVATION 'B'	
		SF	SM	SF	SM
GROUND FLOOR	(0) (1)	795.2	73.9	764.7	71.0
SECOND FLOOR	(0) (1)	1062.5	98.7	1069.5	99.4
SECOND FLOOR OTB	(0) (1)	(6.0)	(0.6)	(6.0)	(0.6)
TOTAL AREA (0)		**1851.7**	**172.0**	**1828.2**	**169.8**
BASEMENT FLOOR W/ FINISHED STAIR	(1)	49.8	4.6	49.8	4.6
TOTAL AREA (1)		**1901.5**	**176.6**	**1878.0**	**174.5**
COVERAGE INC PORCH		1291.4	120.0	1291.4	120.0
COVERAGE NOT INC PORCH		1239.4	115.1	1239.4	115.1
GARAGE		444.2	41.3	474.7	44.1
PORCH		52	4.8	52	4.8

Zancor/ Pristine/ Fernbrook

Belle Aire Shores

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QUALIFIED DESIGNER BCIN: 41230
FIRM BCIN: 26995
DATE: Sept. 30, 2016

SIGNATURE:

client: Zancor/ Pristine/ Fernbrook
location: Innisfil
project: Belle Aire Shores
marketing name

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
2	REVISED AS PER CLIENT COMMENTS	4-Aug-15	NM	IT	6	REVISED AS PER CLIENT COMMENTS - SUMP PUMP LOCATION	4-Jan-16	EG	CR
3	FLOOR & TRUSS COORDINATION	2-Dec-15	KH	REM	7	REVISED AS PER ENG. COMMENTS	20-Jan-16	MB	MB
4	REVISED AS PER CLIENT COMMENTS	2-Dec-15	KH	REM	9	ISSUED FOR PERMIT	30-Sep-16	KH	AL
5	REVISED AS PER ENGINEER COMMENTS	23-Dec-15	NM	REM	10	ADDED SIDE UPGRADE CONDITION	17-Jan-17	KH	AL

RN design
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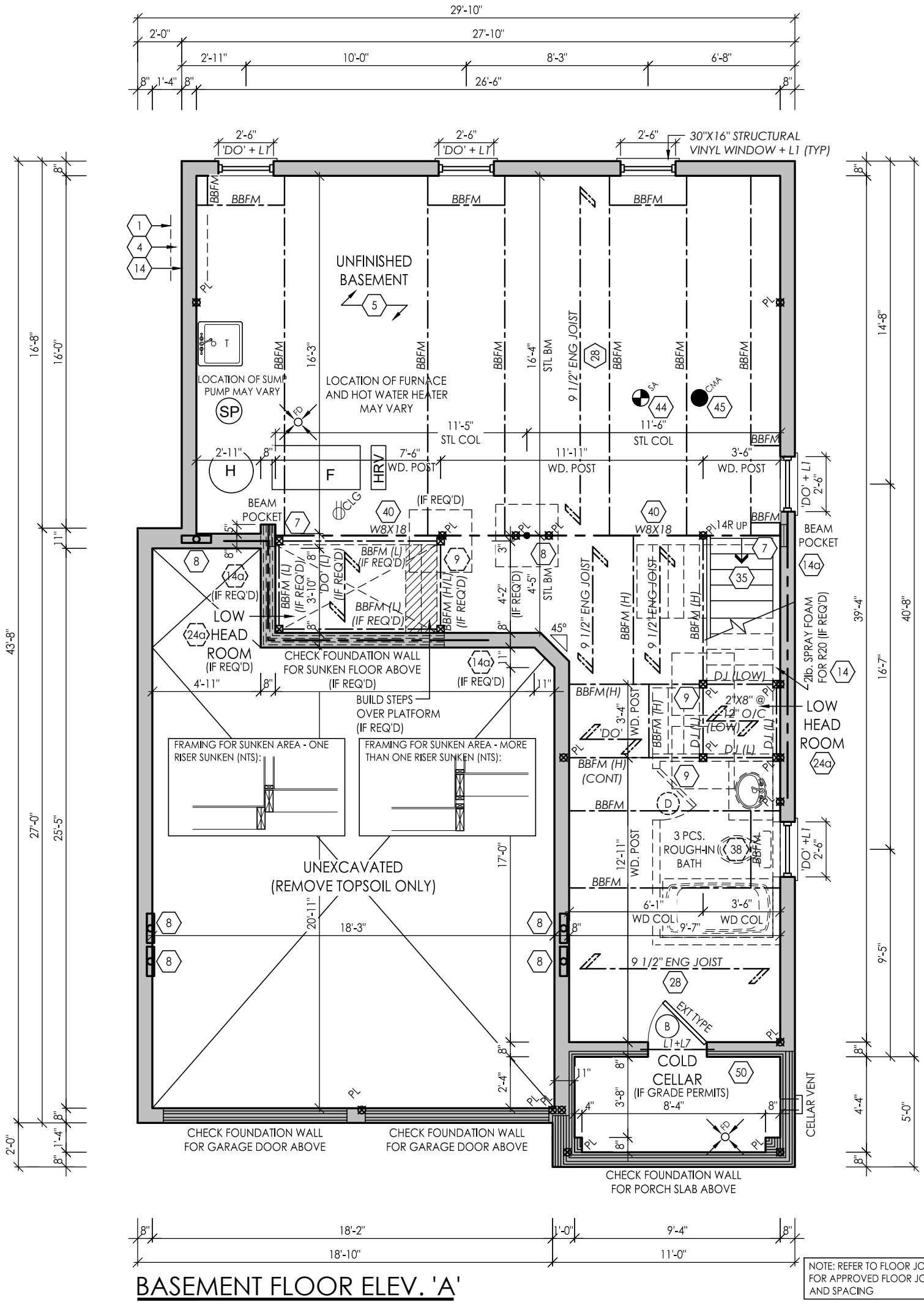
model: 36-02
scale: 3/16" = 1'0"
project #: 14084
page: A0



BASEMENT FLOOR ELEV. 'A'

NOTE: REFER TO FLOOR JOIST DRAWINGS FOR APPROVED FLOOR JOIST LAYOUT AND SPACING

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3	FLOOR & TRUSS COORDINATION	2-Dec-15	KH	REM	7	ISSUED FOR PERMIT	30-Sep-16	KH	AL
4	REVISED AS PER CLIENT COMMENTS	2-Dec-15	KH	REM					

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project #: 14084
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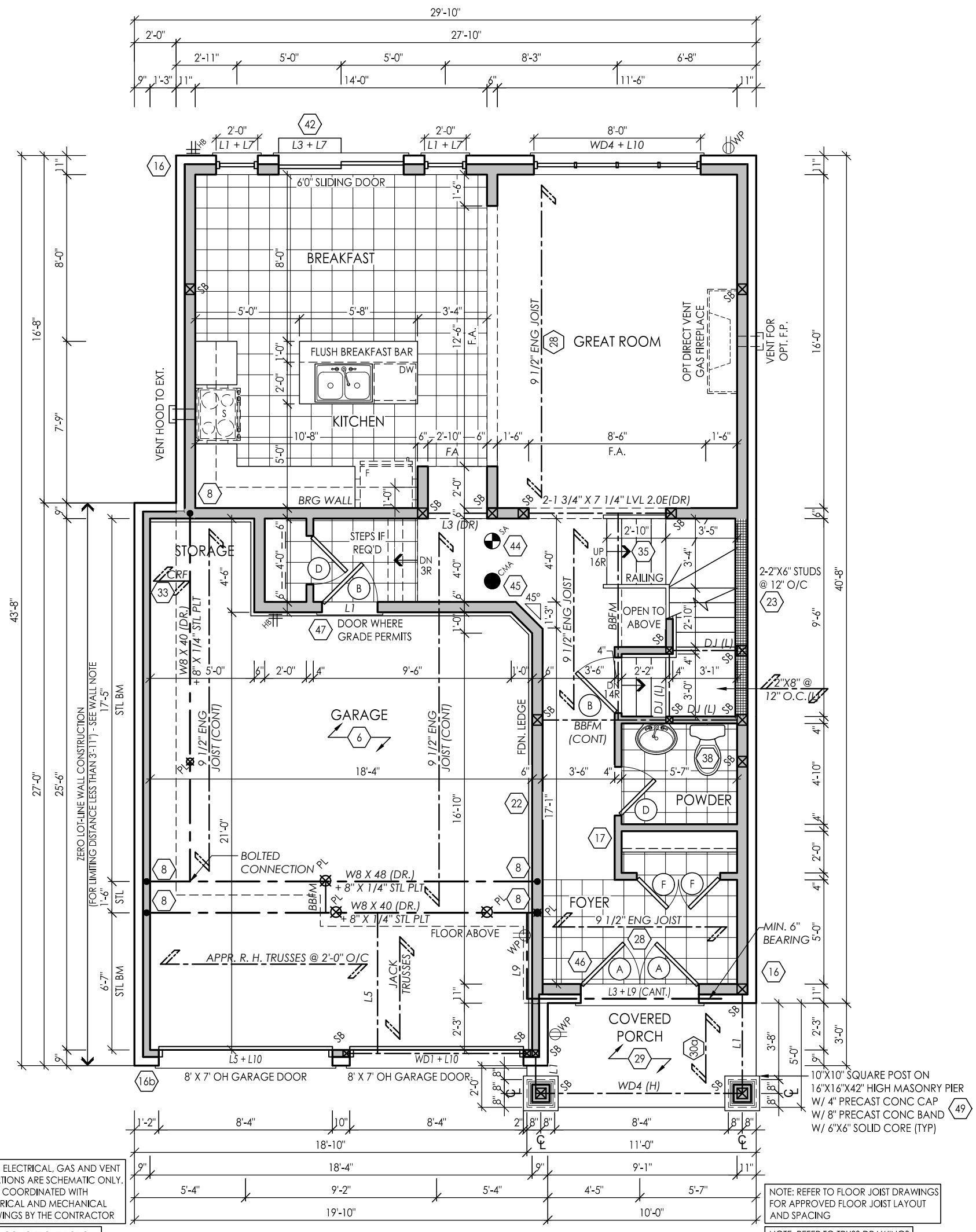

NOTE: ELECTRICAL, GAS AND VENT LOCATIONS ARE SCHEMATIC ONLY. TO BE COORDINATED WITH ELECTRICAL AND MECHANICAL DRAWINGS BY THE CONTRACTOR

NOTE: CONC FRONT PORCH POURED PRIOR TO BRICK

NOTE: REFER TO FLOOR JOIST DRAWINGS FOR APPROVED FLOOR JOIST LAYOUT AND SPACING

NOTE: REFER TO TRUSS DRAWINGS FOR APPROVED TRUSS LAYOUT

GROUND FLOOR ELEV. 'A'

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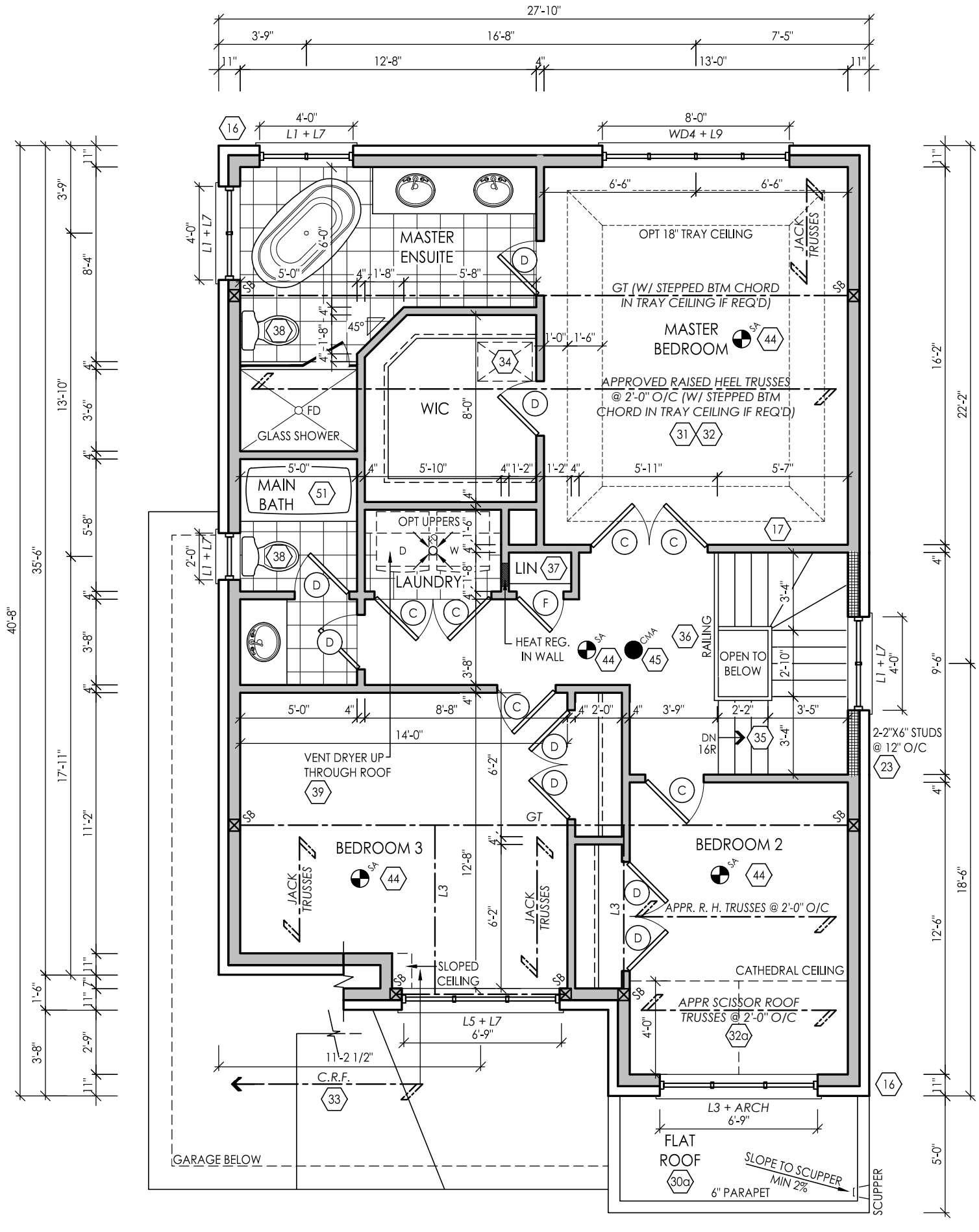

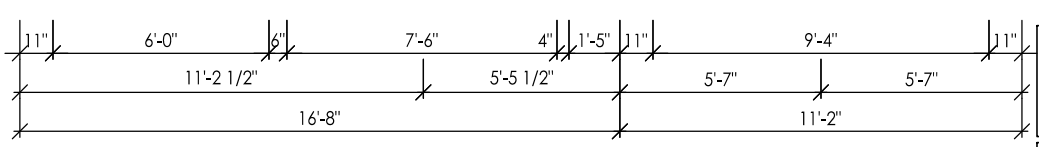

SECOND FLOOR ELEV. 'A'

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NOTE: REFER TO TRUSS DRAWINGS FOR APPROVED TRUSS LAYOUT

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8	REVISED AS PER CLIENT COMMENTS	1-Mar-16	REM	MB					

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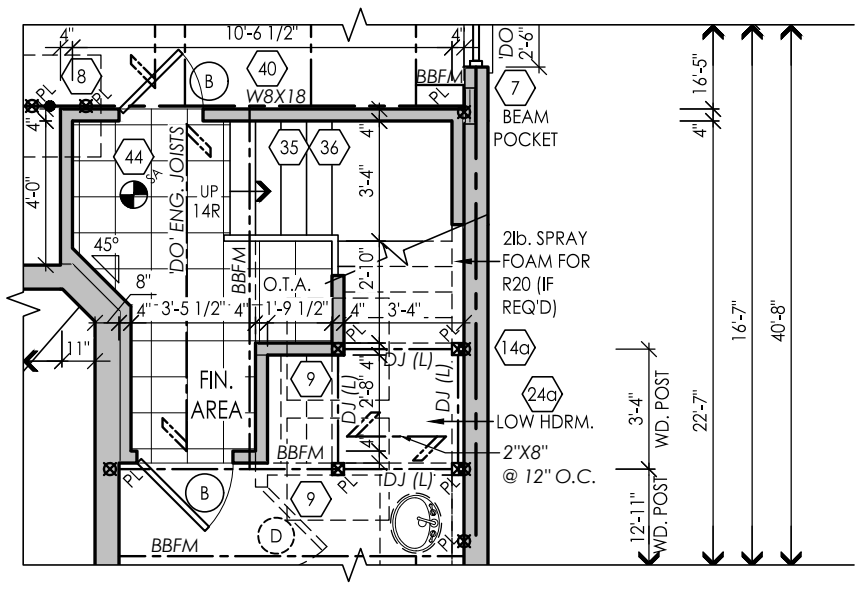
scale: 3/16" = 1'0"
project #: 14084
page: A3

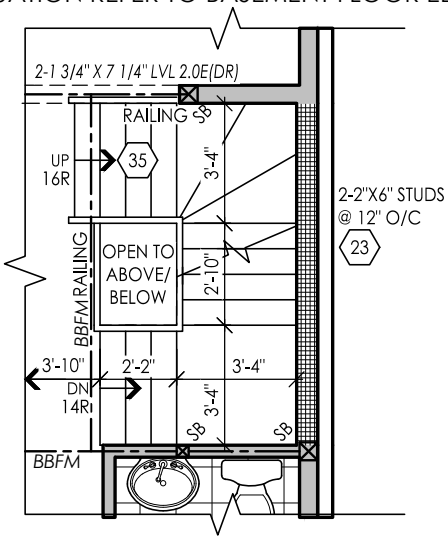
FOR CONTINUATION REFER TO GROUND FLOOR ELEVATION 'A' & 'B'



PARTIAL BASEMENT FLOOR
W/ FINISHED STAIR ELEV. 'A' & 'B'

Floor Area: 50.3

FOR CONTINUATION REFER TO BASEMENT FLOOR ELEVATION 'A' & 'B'



PARTIAL GROUND FLOOR
W/ FINISHED STAIR ELEV. 'A' & 'B'

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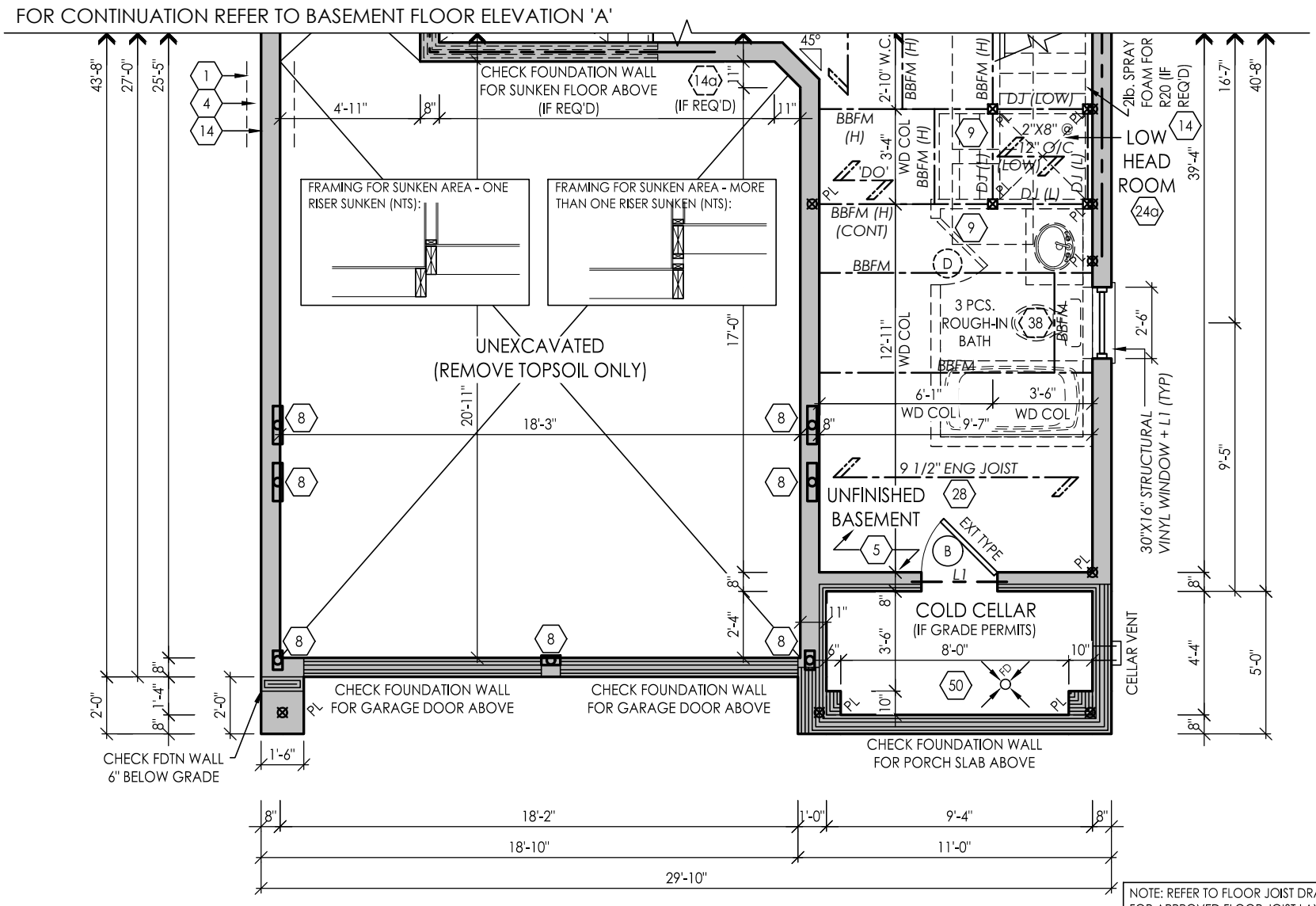
project #: 14084
page: A4

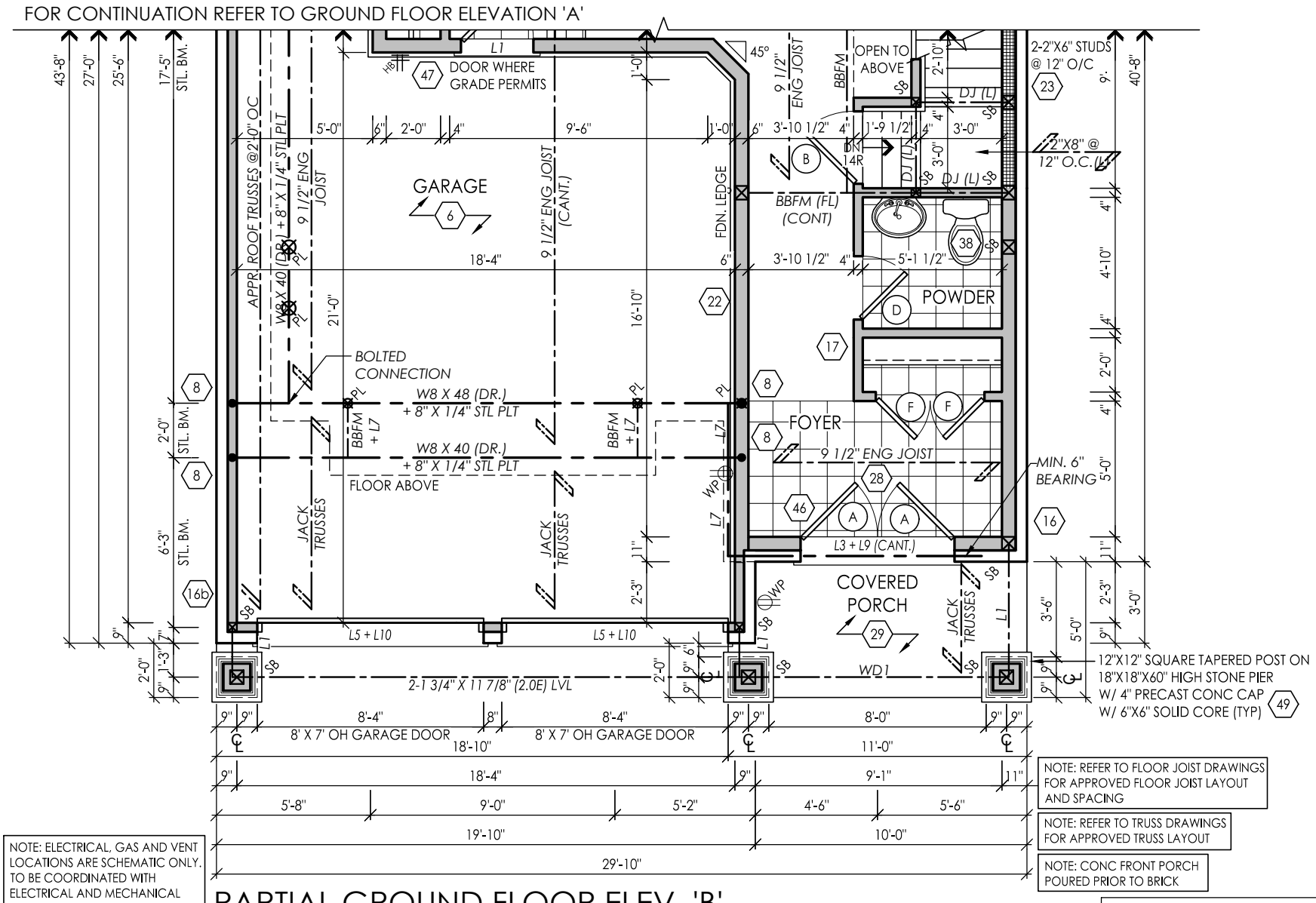
FOR CONTINUATION REFER TO BASEMENT FLOOR ELEVATION 'A'



PARTIAL BASEMENT FLOOR ELEV. 'B'

NOTE: REFER TO FLOOR JOIST DRAWINGS FOR APPROVED FLOOR JOIST LAYOUT AND SPACING

FOR CONTINUATION REFER TO GROUND FLOOR ELEVATION 'A'



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NOTE: REFER TO TRUSS DRAWINGS FOR APPROVED TRUSS LAYOUT

NOTE: CONC FRONT PORCH POURED PRIOR TO BRICK

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PARTIAL GROUND FLOOR ELEV. 'B'

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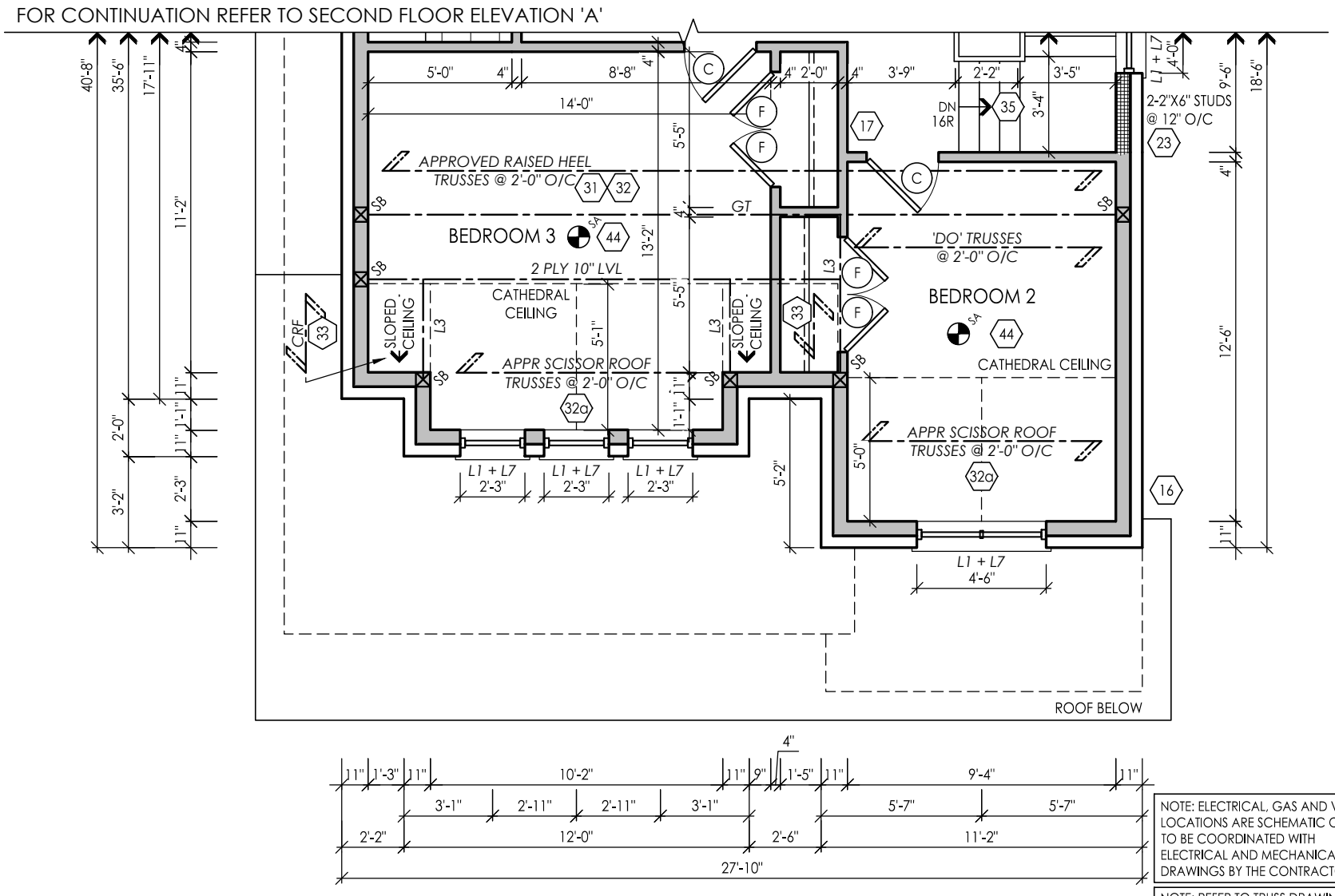
project #: 14084
page: A5

FOR CONTINUATION REFER TO SECOND FLOOR ELEVATION 'A'



PARTIAL SECOND FLOOR ELEV. 'B'

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GROSS GLAZING AREA ELEV.'A'

TOTAL PERIPHERAL WALL AREA	2721.54 SF	252.83 m²
FRONT GLAZING AREA	66.35 SF	6.16 m²
LEFT SIDE GLAZING AREA	18.89 SF	1.75 m²
RIGHT SIDE GLAZING AREA	20.14 SF	1.87 m²
REAR GLAZING AREA	137.21 SF	12.75 m²
TOTAL GLAZING AREA	242.59 SF	22.54 m²
TOTAL GLAZING PERCENTAGE	8.91 %	

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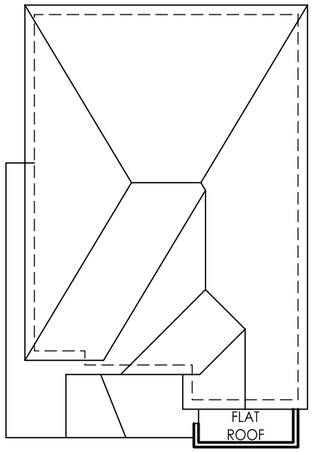
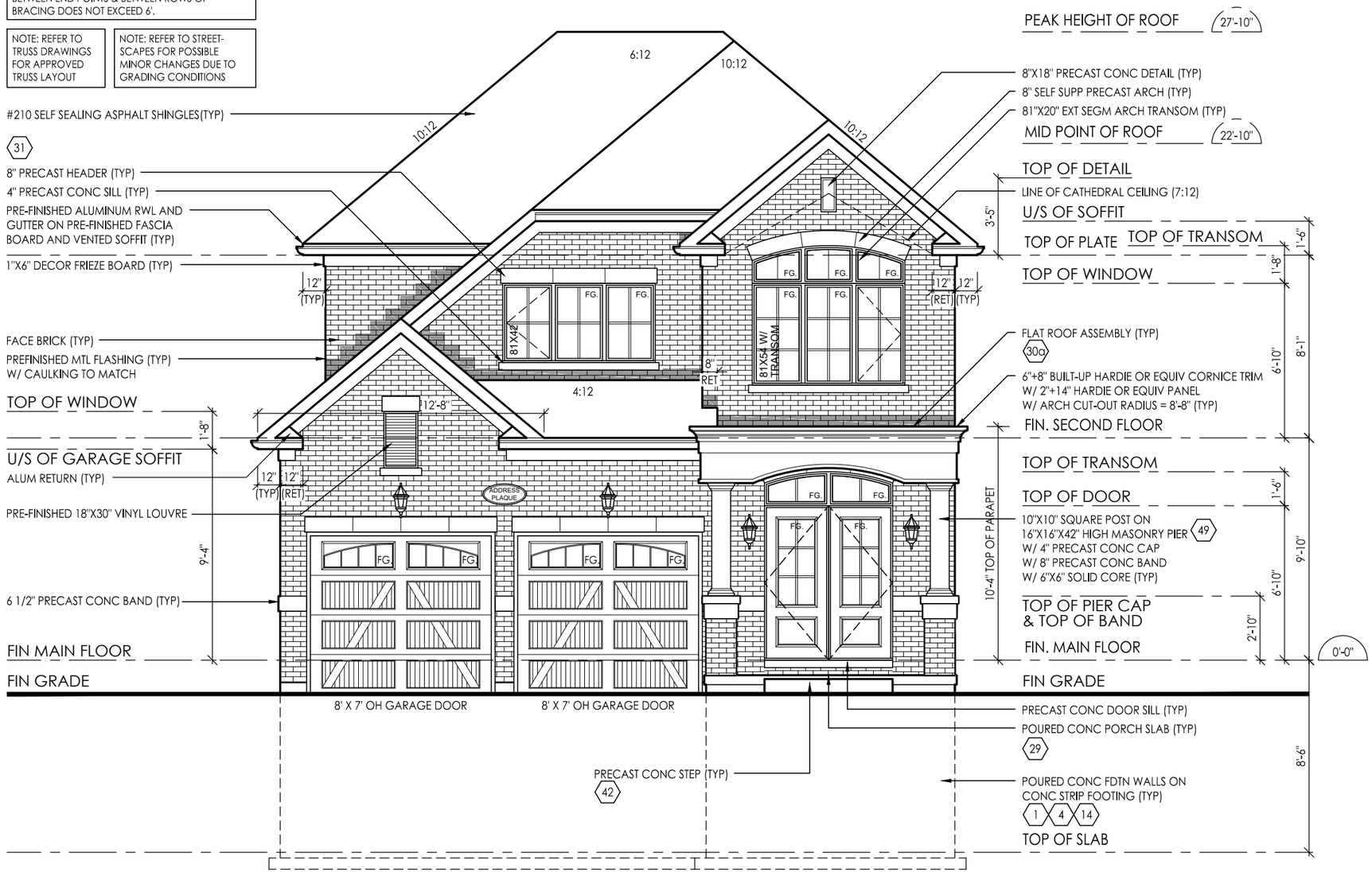


ROOF PLAN 'A'

NOTE: ALL CONVENTIONAL ROOF FRAMING TO CONFORM TO PART 9 OF THE OBC. ROOF RAFTERS THAT MEET OR CROSS OVER TRUSSES ARE TO BE 2"X4" SPF @ 24" O.C. WITH A 2"X4" SPF VERTICAL POST TO THE TRUSS UNDER, AT EACH CROSS POINT. POSTS LONGER THAN 6' TO BE LATERALLY BRACED SO THAT THE DISTANCE BETWEEN END POINTS & BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

NOTE: REFER TO TRUSS DRAWINGS FOR APPROVED TRUSS LAYOUT

NOTE: REFER TO STREET-SCAPES FOR POSSIBLE MINOR CHANGES DUE TO GRADING CONDITIONS



FRONT ELEVATION 'A'

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Zancor/ Pristine/ Fernbrook

project
Belle Aire Shores

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location
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marketing name

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project #
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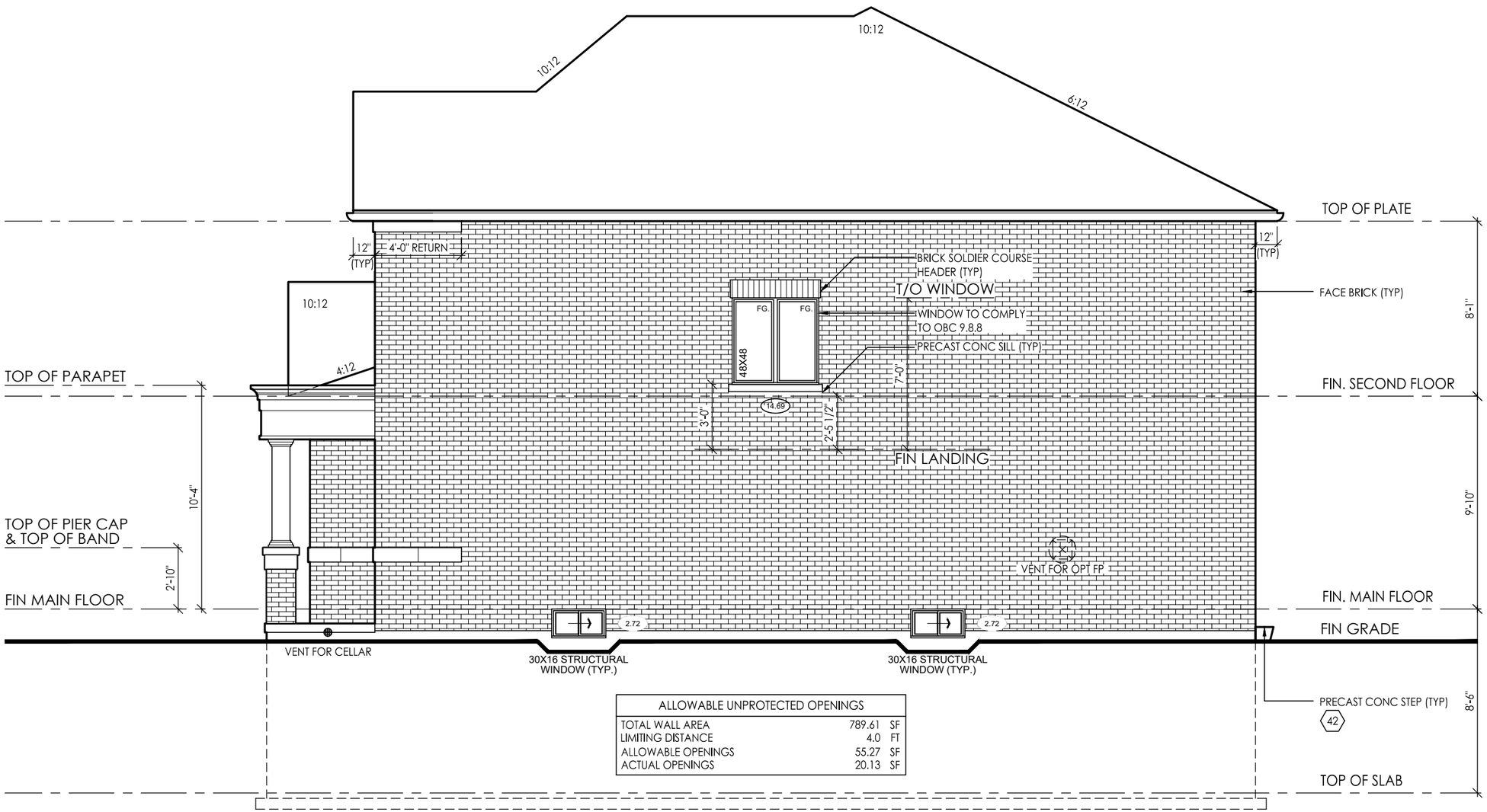

ALLOWABLE UNPROTECTED OPENINGS		
TOTAL WALL AREA	789.61	SF
LIMITING DISTANCE	4.0	FT
ALLOWABLE OPENINGS	55.27	SF
ACTUAL OPENINGS	20.13	SF

RIGHT SIDE ELEVATION 'A'

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model 36-02

scale 3/16" = 1'0"

project # 14084

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marketing name

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SIGNATURE:

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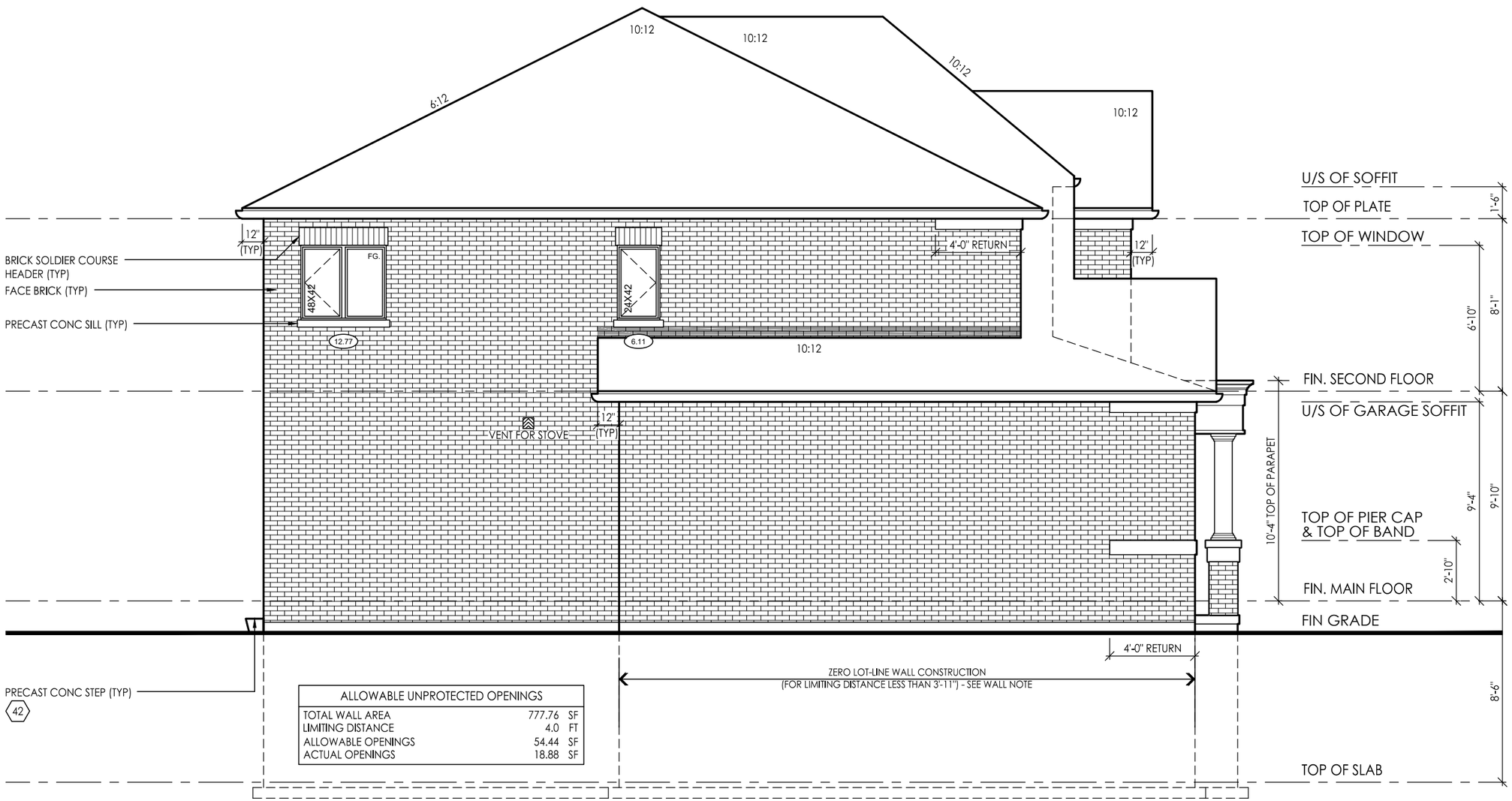

ALLOWABLE UNPROTECTED OPENINGS		
TOTAL WALL AREA	777.76	SF
LIMITING DISTANCE	4.0	FT
ALLOWABLE OPENINGS	54.44	SF
ACTUAL OPENINGS	18.88	SF

LEFT SIDE ELEVATION 'A'

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model 36-02

scale 3/16" = 1'0"

project # 14084

page A9

RN design
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location Innisfil

marketing name

#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	29-May-15	KK	IT
2	REVISED AS PER CLIENT COMMENTS	4-Aug-15	NM	IT
3	ISSUED FOR PERMIT	30-Sep-16	KH	AL

client Zancor/ Pristine/ Fernbrook

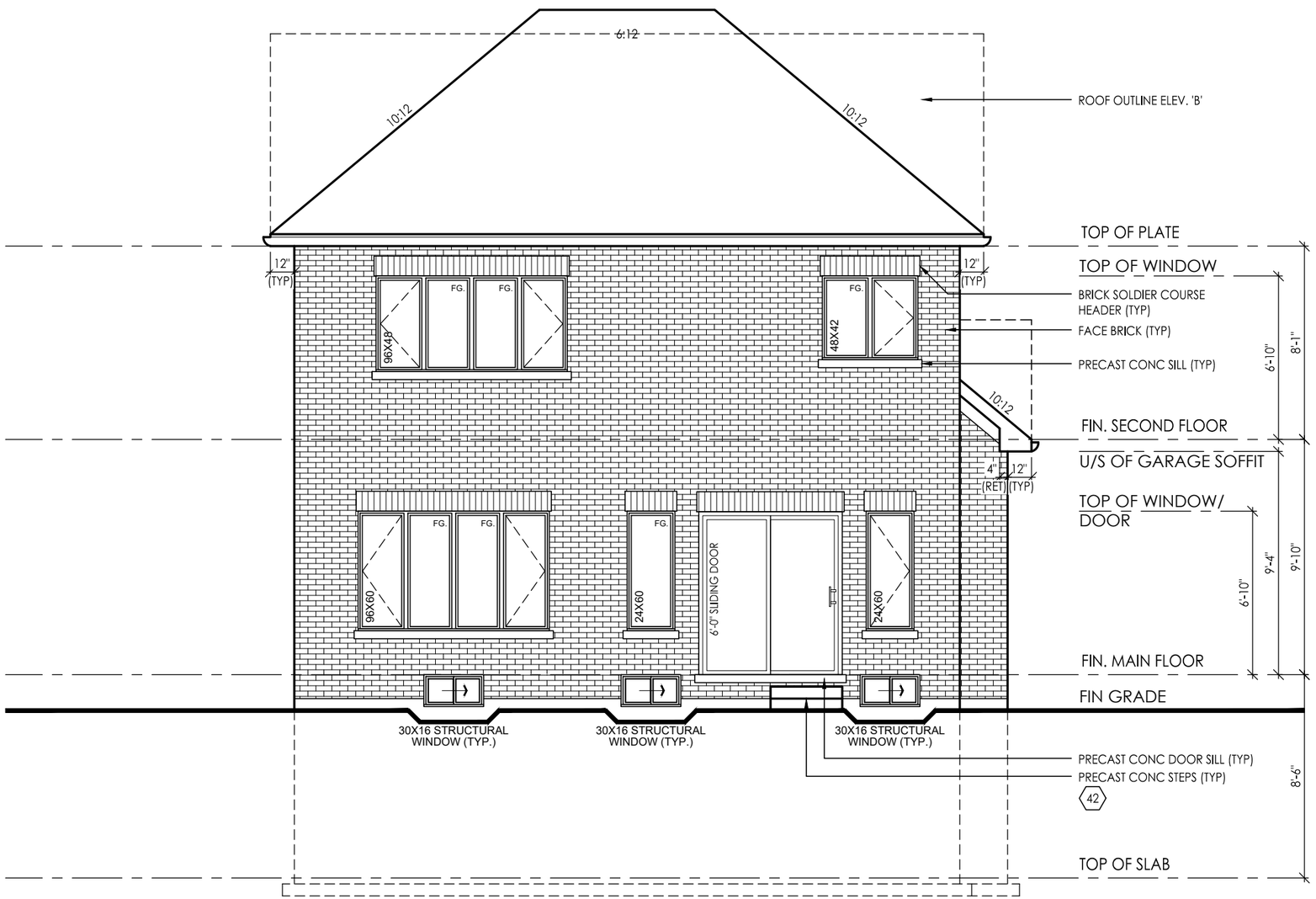
project Belle Aire Shores

I, ARTHUR PUI YAN LAW DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD** UNDER DIVISION C, PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.

QUALIFIED DESIGNER BCIN: 41230
FIRM BCIN: 26995
DATE: Sept. 30, 2016

SIGNATURE:

File:C:_RN_Standards\Temp\AcPublish_42220\A14084-36-02-FINAL.dwg Plotted: Mar 14, 2017 By:Samantha P



REAR ELEVATION 'A' & 'B'

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model 36-02

scale 3/16" = 1'0"

project # 14084

page A10

RN design
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location Innisfil

marketing name

#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	29-May-15	KK	IT
2	REVISED AS PER CLIENT COMMENTS	4-Aug-15	NM	IT
3	ISSUED FOR PERMIT	30-Sep-16	KH	AL

client Zancor/ Pristine/ Fernbrook

project Belle Aire Shores

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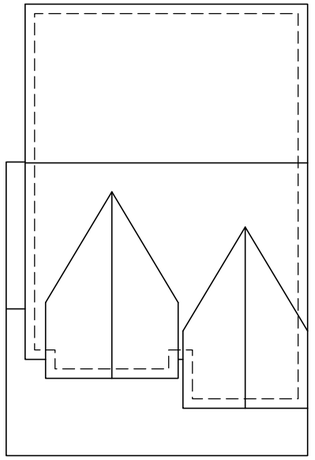

ROOF PLAN 'B'

NOTE: ALL CONVENTIONAL ROOF FRAMING TO CONFORM TO PART 9 OF THE OBC. ROOF RAFTERS THAT MEET OR CROSS OVER TRUSSES ARE TO BE 2"X4" SPF @ 24" O.C. WITH A 2"X4" SPF VERTICAL POST TO THE TRUSS UNDER, AT EACH CROSS POINT. POSTS LONGER THAN 6' TO BE LATERALLY BRACED SO THAT THE DISTANCE BETWEEN END POINTS & BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

NOTE: REFER TO TRUSS DRAWINGS FOR APPROVED TRUSS LAYOUT

NOTE: REFER TO STREET-SCAPES FOR POSSIBLE MINOR CHANGES DUE TO GRADING CONDITIONS

GROSS GLAZING AREA ELEV.'B'

TOTAL PERIPHERAL WALL AREA	2585.96 SF	240.24 m²
FRONT GLAZING AREA	55.81 SF	5.18 m²
LEFT SIDE GLAZING AREA	18.89 SF	1.75 m²
RIGHT SIDE GLAZING AREA	20.14 SF	1.87 m²
REAR GLAZING AREA	137.21 SF	12.75 m²
TOTAL GLAZING AREA	232.05 SF	21.56 m²
TOTAL GLAZING PERCENTAGE	8.97 %	

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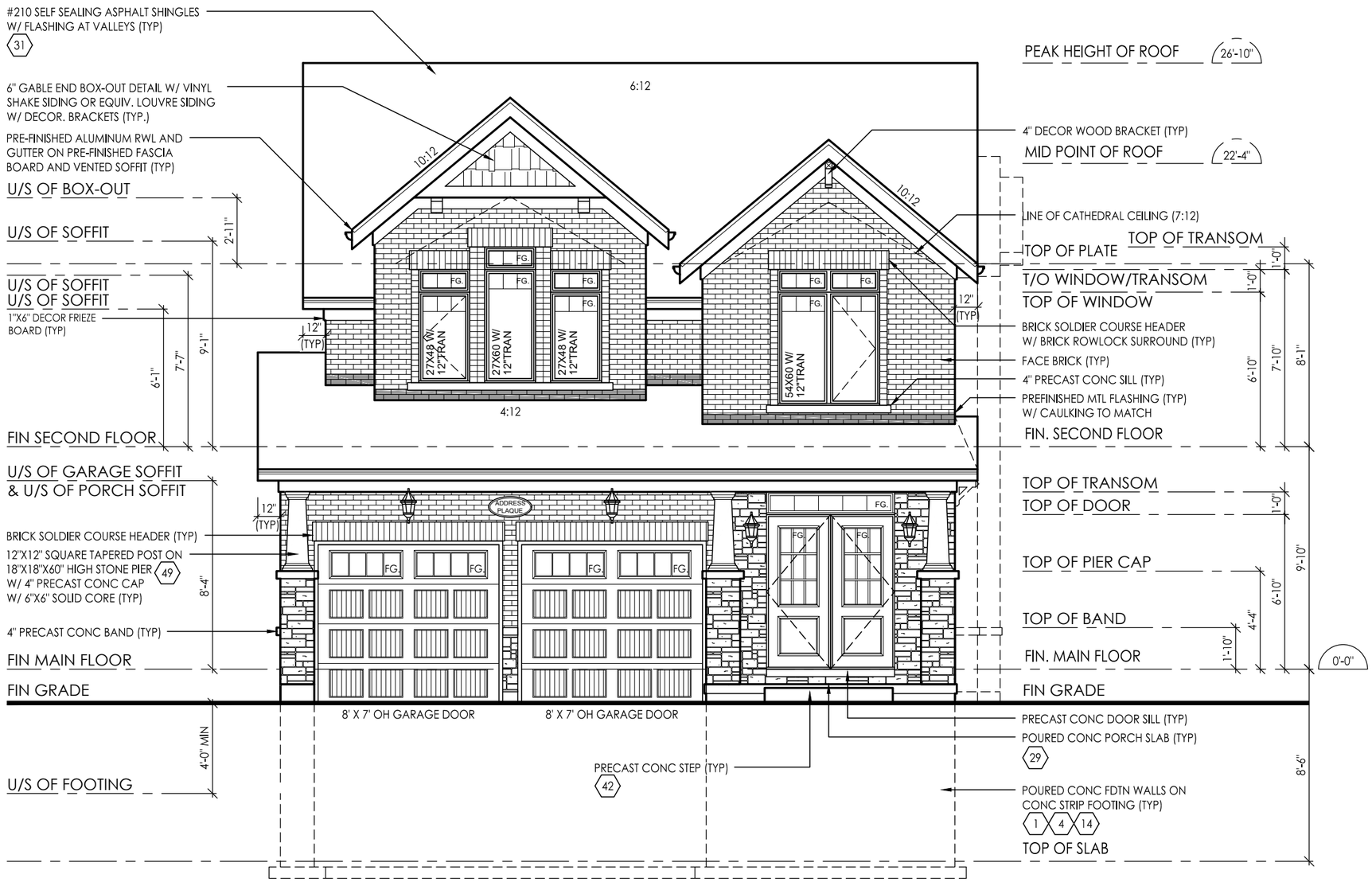

FRONT ELEVATION 'B'

model 36-02
scale 3/16" = 1'0"
project # 14084
page A11

RN design
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location Innisfil
marketing name

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	29-May-15	KK	IT	5	ISSUED FOR PERMIT	30-Sep-16	KH	AL
2	REVISED AS PER CLIENT COMMENTS	4-Aug-15	NM	IT					
4	REVISED AS PER CLIENT COMMENTS	2-Dec-15	KH	REM					
8	REVISED AS PER CLIENT COMMENTS	1-Mar-16	REM	MB					

client Zancor/ Pristine/ Fernbrook
project Belle Aire Shores

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FIRM BCIN: 26995
DATE: Sept. 30, 2016

SIGNATURE:

File:C:_RN_Standards\Temp\AcPublish_4220\A1-B-02-FINAL.dwg Plotted: Mar 14, 2017 By:Samantha P

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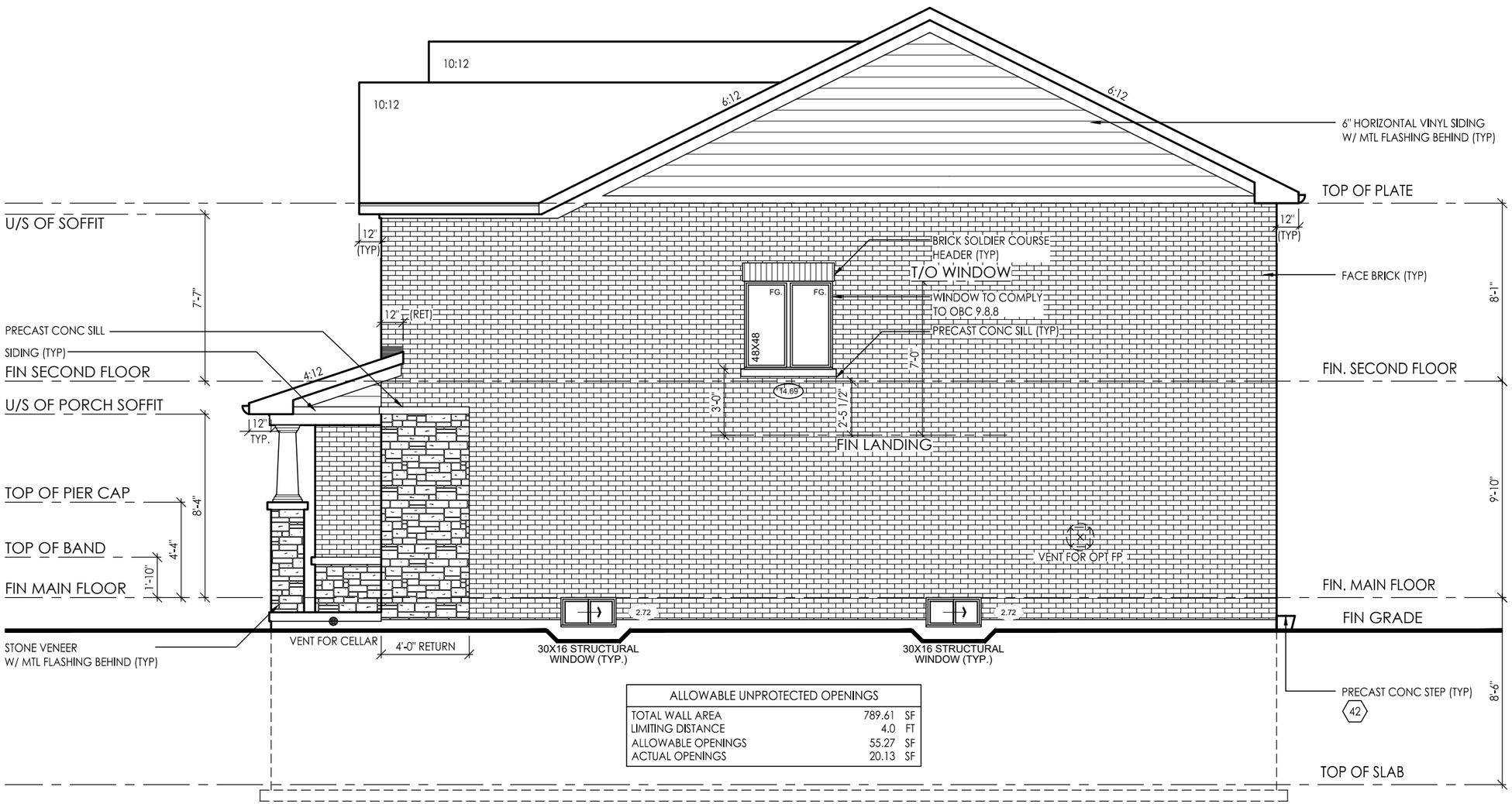

ALLOWABLE UNPROTECTED OPENINGS		
TOTAL WALL AREA	789.61	SF
LIMITING DISTANCE	4.0	FT
ALLOWABLE OPENINGS	55.27	SF
ACTUAL OPENINGS	20.13	SF

RIGHT SIDE ELEVATION 'B'

model 36-02

scale 3/16" = 1'0"

project # 14084

page A12

RN design
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location Innisfil

marketing name

client Zancor/ Pristine/ Fernbrook

project Belle Aire Shores

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	29-May-15	KK	IT					
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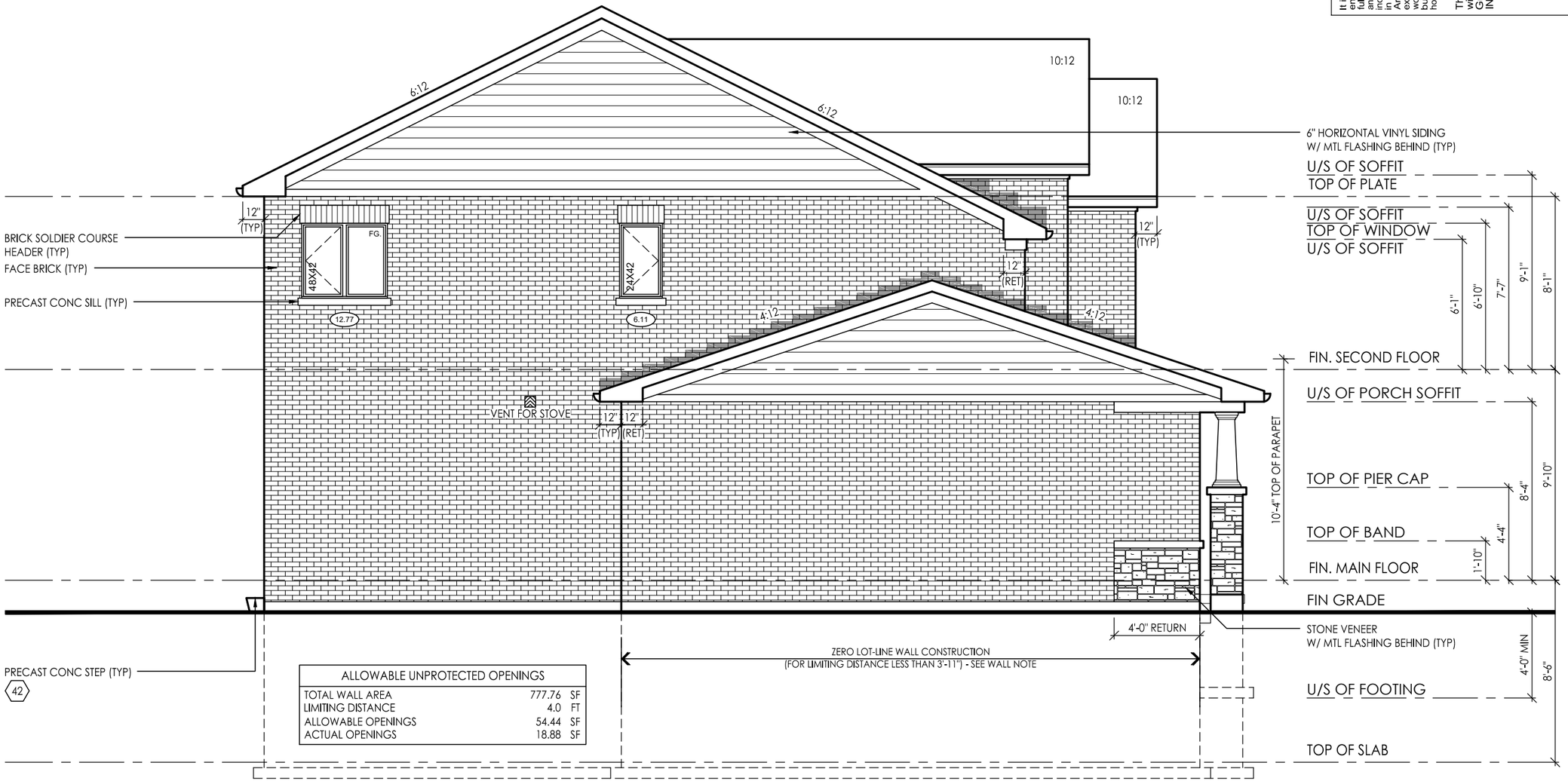

ALLOWABLE UNPROTECTED OPENINGS		
TOTAL WALL AREA	777.76	SF
LIMITING DISTANCE	4.0	FT
ALLOWABLE OPENINGS	54.44	SF
ACTUAL OPENINGS	18.88	SF

LEFT SIDE ELEVATION 'B'

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model 36-02

scale 3/16" = 1'0"

project # 14084

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RN design
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location Innisfil

marketing name

revisions		date	dwn	chk	#
1	ISSUED FOR CLIENT REVIEW	29-May-15	KK	IT	
2	REVISED AS PER CLIENT COMMENTS	4-Aug-15	NM	IT	
3	ISSUED FOR PERMIT	30-Sep-16	KH	AL	

client Zancor/ Pristine/ Fernbrook

project Belle Aire Shores

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DATE: Sept. 30, 2016

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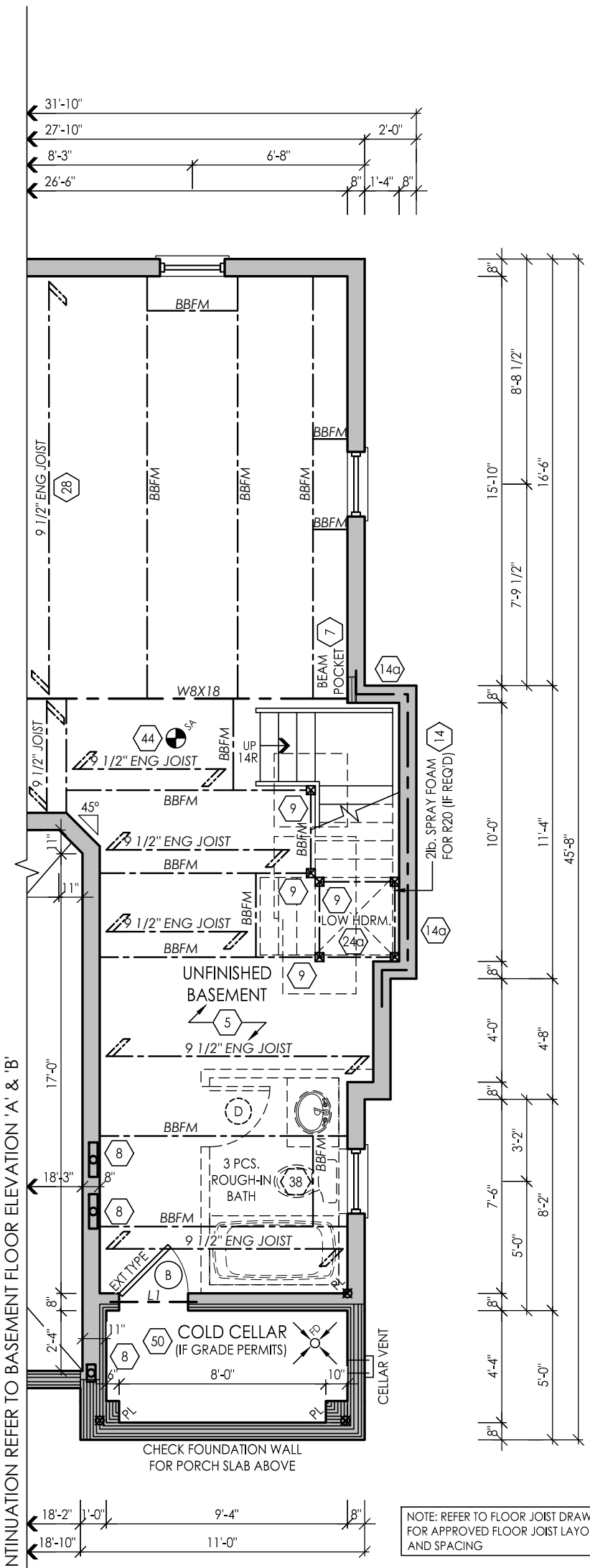
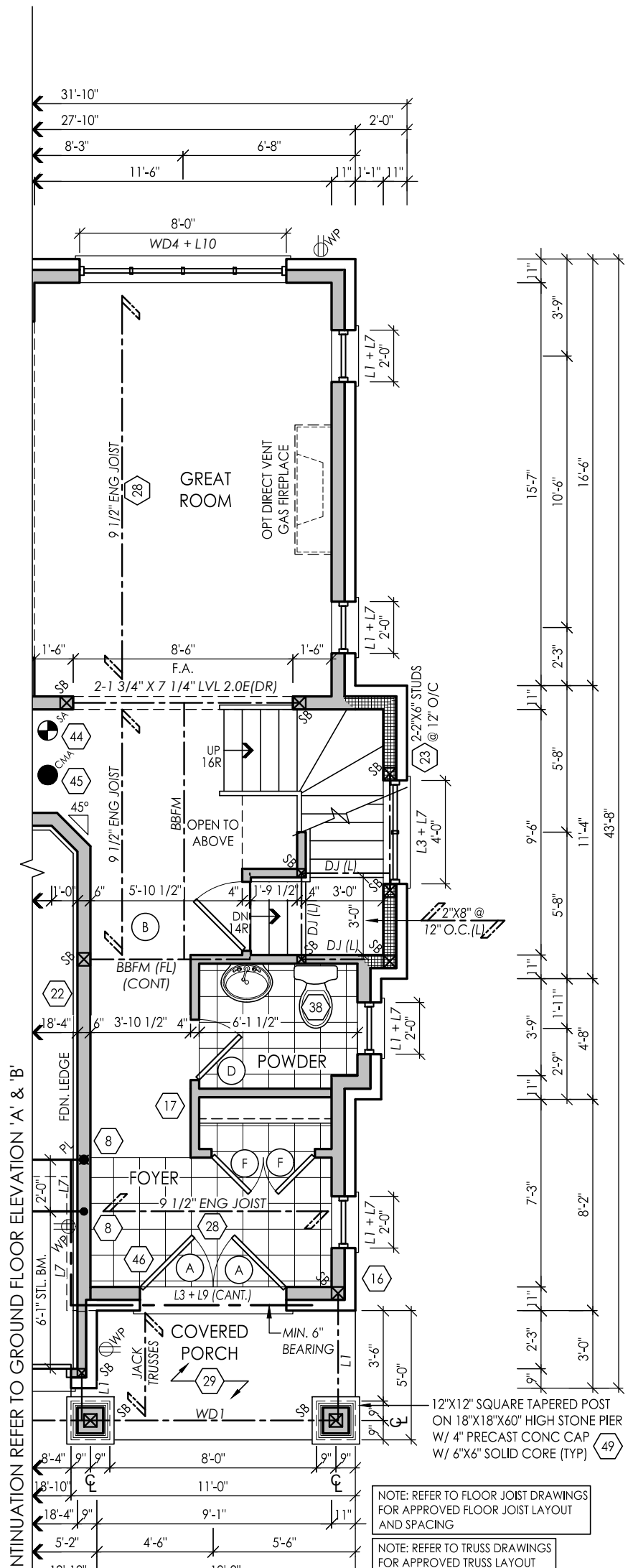


NOTE: REFER TO FLOOR JOIST DRAWINGS FOR APPROVED FLOOR JOIST LAYOUT AND SPACING

PARTIAL BASEMENT FLOOR
ELEV. 'B' SIDE UPGRADE



NOTE: REFER TO FLOOR JOIST DRAWINGS FOR APPROVED FLOOR JOIST LAYOUT AND SPACING

NOTE: REFER TO TRUSS DRAWINGS FOR APPROVED TRUSS LAYOUT

NOTE: CONC FRONT PORCH POURED PRIOR TO BRICK

PARTIAL GROUND FLOOR
ELEV. 'B' SIDE UPGRADE

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QUALIFIED DESIGNER BCIN: 41230
FIRM BCIN: 26995
DATE: Jan. XX, 2017

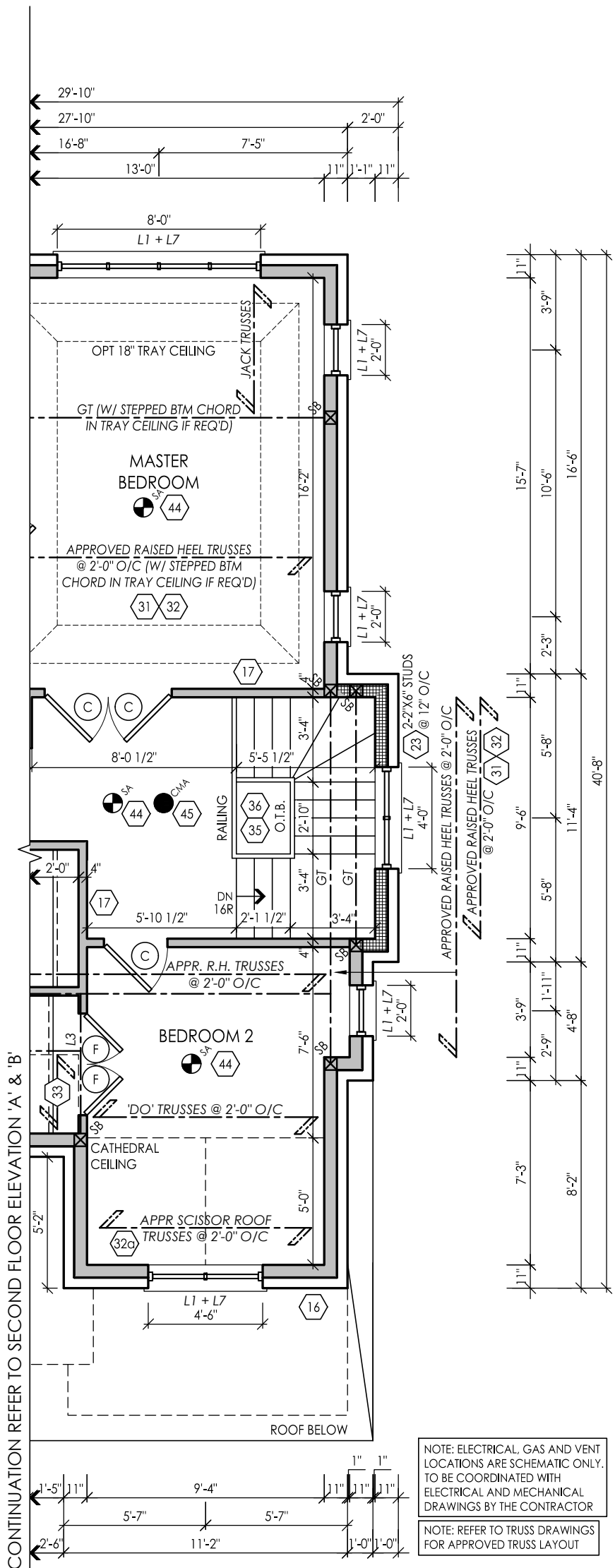
SIGNATURE:

client: Zancor/ Pristine/ Fernbrook
location: Innisfil
project: Belle Aire Shores
marketing name

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
10	ADDED SIDE UPGRADE CONDITION	17-Jan-17	KH	AL					

RN design
Imagine ▸ Inspire ▸ Create

model: 36-02
scale: 3/16" = 1'0"
project #: 14084
page: A14



NOTE: ELECTRICAL, GAS AND VENT LOCATIONS ARE SCHEMATIC ONLY. TO BE COORDINATED WITH ELECTRICAL AND MECHANICAL DRAWINGS BY THE CONTRACTOR

NOTE: REFER TO TRUSS DRAWINGS FOR APPROVED TRUSS LAYOUT

PARTIAL SECOND FLOOR ELEV. 'B' SIDE UPGRADE

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DATE: Jan. XX, 2017

SIGNATURE:

client: Zancor/ Pristine/ Fernbrook
location: Innisfil
project: Belle Aire Shores
marketing name

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
10	ADDED SIDE UPGRADE CONDITION	17-Jan-17	KH	AL					

RN design
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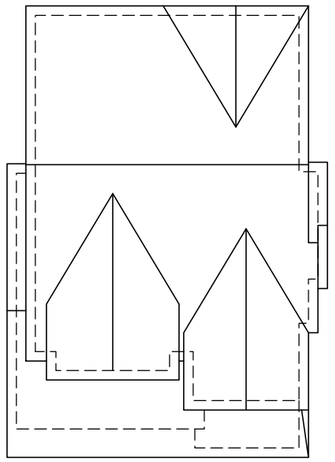
model: 36-02
scale: 3/16" = 1'0"
project #: 14084
page: A15



ROOF PLAN 'B' W/ SIDE UPGRADE

NOTE: ALL CONVENTIONAL ROOF FRAMING TO CONFORM TO PART 9 OF THE OBC. ROOF RAFTERS THAT MEET OR CROSS OVER TRUSSES ARE TO BE 2"X4" SPF @ 24" O.C. WITH A 2"X4" SPF VERTICAL POST TO THE TRUSS UNDER, AT EACH CROSS POINT. POSTS LONGER THAN 6' TO BE LATERALLY BRACED SO THAT THE DISTANCE BETWEEN END POINTS & BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

NOTE: REFER TO TRUSS DRAWINGS FOR APPROVED TRUSS LAYOUT

NOTE: REFER TO STREET-SCAPES FOR POSSIBLE MINOR CHANGES DUE TO GRADING CONDITIONS

GROSS GLAZING AREA ELEV.'B' W/ SIDE UPGRADE

TOTAL PERIPHERAL WALL AREA	2657.36 SF	246.88 m²
FRONT GLAZING AREA	55.81 SF	5.18 m²
LEFT SIDE GLAZING AREA	18.89 SF	1.75 m²
RIGHT SIDE GLAZING AREA	81.38 SF	7.56 m²
REAR GLAZING AREA	137.21 SF	12.75 m²
TOTAL GLAZING AREA	293.29 SF	27.25 m²
TOTAL GLAZING PERCENTAGE	11.04 %	

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RIGHT SIDE ELEVATION 'B' W/ SIDE UPGRADE

model 36-02
scale 3/16" = 1'0"
project # 14084
page A16

RN design
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location Innisfil
marketing name

client Zancor/ Pristine/ Fernbrook
project Belle Aire Shores

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
10	ADDED SIDE UPGRADE CONDITION	17-Jan-17	KH	AL					

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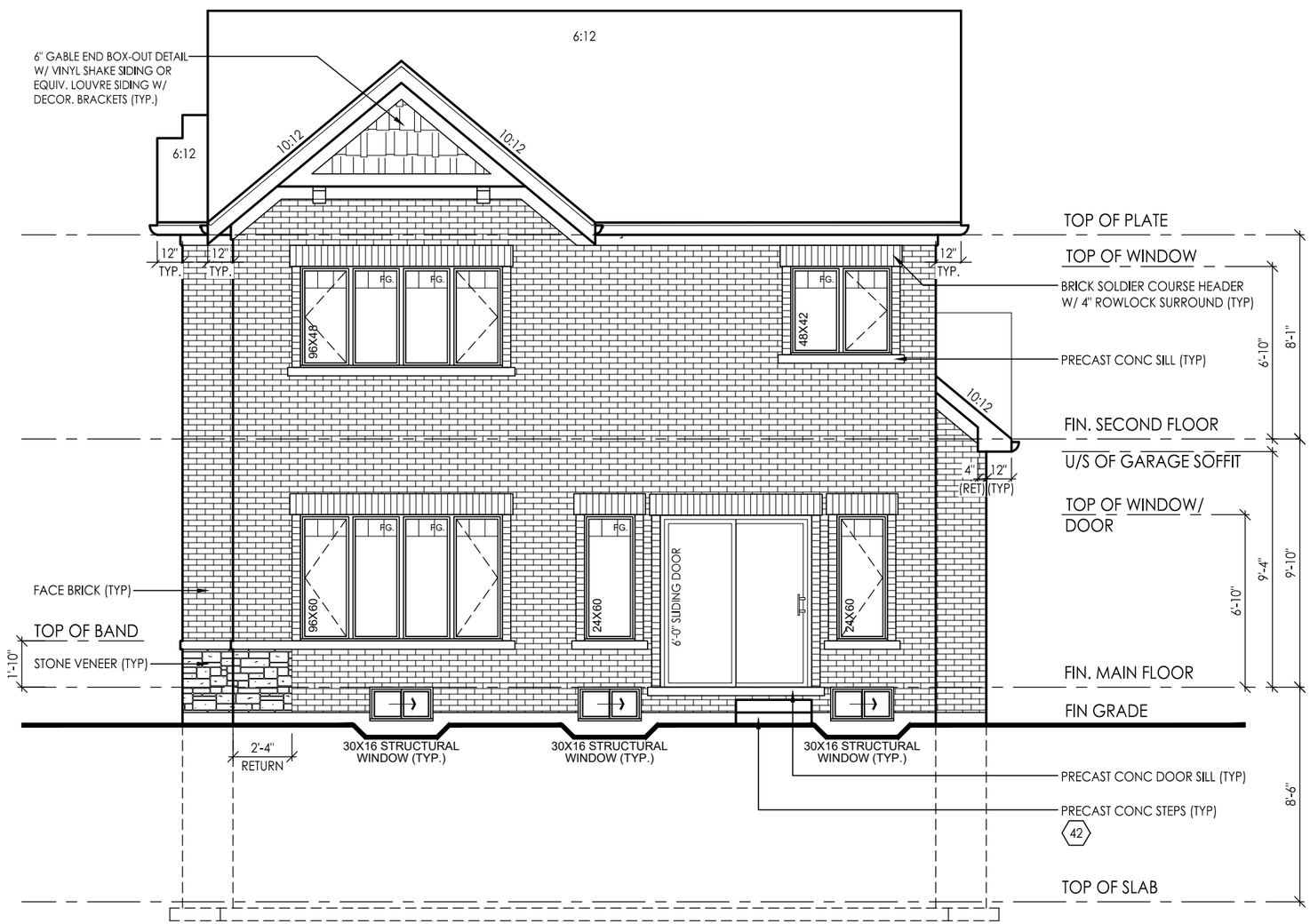

REAR ELEVATION 'B' W/ SIDE UPGRADE

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model 36-02

scale 3/16" = 1'0"

project # 14084

page A17

RN design
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location Innisfil

marketing name

revisions

#	revisions	date	dwn	chk
10	ADDED SIDE UPGRADE CONDITION	17-Jan-17	KH	AL

client Zancor/ Pristine/ Fernbrook

project Belle Aire Shores

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CONSTRUCTION NOTES:

COMPLIANCE PACKAGE A1 - OBC 2012 - 2017 ENACTMENT

(UNLESS OTHERWISE NOTED)
-ALL CONSTRUCTION TO CONFORM TO THE ONTARIO BUILDING CODE (O.B.C.) AND ALL OTHER CODES AND LOCAL AUTHORITIES HAVING JURISDICTION.
-ALL DIMENSIONS GIVEN FIRST IN IMPERIAL FOLLOWED BY METRIC.
-THERMAL RESISTANCE VALUES BASED ON ZONE 1

FOOTINGS / SLABS:

TYPICAL STRIP FOOTING:
O.B.C. 9.15.3.
-BASED ON 16'-1"(4.9m) MAX. SUPPORTED JOIST LENGTH
-MIN. 2200psi (15MPa) CONCRETE AFTER 28 DAYS
-SHALL REST ON UNDISTURBED SOIL, ROCK OR COMPACTED GRANULAR FILL W/ MIN. 10.9psi (75kPa) BEARING CAPACITY
-FTG. TO HAVE CONTINUOUS KEY
-FTG. SIZES MAY BE REDUCED FOR SOILS W/ GREATER BEARING CAPACITY (AS PER SOILS ENGINEERING REPORT)

1 **TYPICAL STRIP FOOTING: (EXTERIOR WALLS)**
O.B.C. 9.15.3.5.
-FTG. TO EXTEND MIN. 4'-0" (1200mm) BELOW GRADE

BRICK VENEER	-1 STOREY	- 13" X 4"	(330mm X 100mm)
	-2 STOREY	- 19" X 6"	(485mm X 155mm)
	-3 STOREY	- 26" X 9"	(660mm X 230mm)
SIDING-	-1 STOREY	- 10" X 4"	(255mm X 100mm)
	-2 STOREY	- 14" X 4"	(360mm X 100mm)
	-3 STOREY	- 18" X 5"	(460mm X 130mm)

2 **TYPICAL STRIP FOOTING: (INTERIOR BEARING WALLS)**
O.B.C. 9.15.3.6.

-1 STOREY MASONRY	- 16" X 4"	(410mm X 100mm)
-1 STOREY STUD	- 12" X 4"	(305mm X 100mm)
-2 STOREY MASONRY	- 26" X 9"	(650mmX 230mm)
-2 STOREY STUD	- 18" X 5"	(450mm X 130mm)
-3 STOREY MASONRY	- 36" X 14"	(900mm X 360mm)
-3 STOREY STUD	- 24" X 8"	(600mm X 200mm)

3 **STEP FOOTING:**
O.B.C. 9.15.3.9.
-23 5/8" (600mm) MAX. VERTICAL RISE & 23 5/8" (600mm) MIN. HORIZONTAL RUN.

4 **DRAINAGE TILE OR PIPE:**
O.B.C. 9.14.3.
-4" (100mm) MIN. DIA. LAID ON UNDISTURBED OR WELL COMPACTED SOIL W/ TOP OF TILE OR PIPE TO BE BELOW BOTTOM OF FLR. SLAB.
-COVER TOP & SIDES OF TILE OR PIPE W/ 5 7/8" (150mm) OF CRUSHED STONE OR OTHER COURSE CLEAN GRANULAR MATERIAL.
-TILE SHALL DRAIN TO A SEWER, DRAINAGE DITCH, OR DRY WELL.

5 **BASEMENT SLAB:**
O.B.C. 9.13. & 9.16.
-3" (75mm) CONCRETE SLAB
-2200psi (15MPa) AFTER 28 DAYS - O.B.C. 9.16.4.5.
-DAMPPROOF BELOW SLAB W/ MIN. 0.006" (0.15mm) POLYETHYLENE OR TYPE 'S' ROLL ROOFING W/ 4" (100mm) LAPPED JOINTS.
-DAMPPROOFING MAY BE OMITTED IF CONCRETE HAS MIN. 3600psi(25MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS
-4" (100mm) OF COURSE GRANULAR MATERIAL
-PROVIDE BOND BREAKING MATERIAL BETWEEN SLAB & FTG.
-WHERE SLAB IS REQUIRED TO BE WATERPROOFED IT SHALL CONFORM TO O.B.C. 9.13.3.
-FLOOR DRAIN PER O.B.C.9.31.4.4.
-R10 (RSI 1.76) INSULATION AT PERIMETER OF SLAB WHERE GRADE IS WITHIN 23-1/2" (600mm) OF BASEMENT SLAB EDGE. INSULATION TO EXTEND TO NOT LESS THAN 23-1/2" (600mm) BELOW EXTERIOR GRADE LEVEL (OBC SB-12 - 3.1.1.7 (5))
- UNLESS IT CAN BE DEMONSTRATED THAT SOIL GAS DOES NOT CONSTITUTE A PROBLEM, SOIL GAS CONTROL SHALL CONFORM TO SUPPLEMENTARY STANDARD (O.B.C. SB-9)

5a **SLAB ON GROUND:**
-3" (75mm) CONCRETE SLAB - O.B.C. 9.16.4.3.
-2200psi (15MPa) AFTER 28 DAYS - O.B.C. 9.16.4.5.
-DAMPPROOF BELOW SLAB W/ MIN. 0.006" (0.15mm) POLYETHYLENE OR TYPE 'S' ROLL ROOFING W/ 4" (100mm) LAPPED JOINTS.
-DAMPPROOFING MAY BE OMITTED IF CONCRETE HAS MIN. 3600psi(25MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS
-R10 (RSI 1.76) INSULATION UNDER ENTIRE SLAB WHERE THE ENTIRE SLAB IS WITHIN 23-1/2" (600mm) OF GRADE. (OBC SB-12 3.1.1.7.(6))
-4" (100mm) OF COURSE GRANULAR MATERIAL
-PROVIDE BOND BREAKING MATERIAL BETWEEN SLAB & FTG.
-WHERE SLAB IS REQUIRED TO BE WATERPROOFED IT SHALL CONFORM TO O.B.C. 9.13.3.
-FLOOR DRAIN PER O.B.C.9.31.4.4.
- UNLESS IT CAN BE DEMONSTRATED THAT SOIL GAS DOES NOT CONSTITUTE A PROBLEM, SOIL GAS CONTROL SHALL CONFORM TO SUPPLEMENTARY STANDARD (O.B.C. SB-9)

6 **GARAGE SLAB / EXTERIOR SLAB:**
-4"(100mm) CONCRETE SLAB
-4650psi (32MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS FOR UNREINFORCED CONC. & W/ 5-8% AIR ENTRAINMENT - O.B.C. 9.3.1.6.
-6" X 6" (W2.9 X W 2.9) WIRE MESH LOCATED NEAR MID-DEPTH OF SLAB
-4" (100mm) OF COURSE GRANULAR MATERIAL
-ANY FILL PLACED UNDER SLAB , OTHER THAN COURSE CLEAN GRANULAR MATERIAL, SHALL BE COMPACTED.

7 **PILASTERS:**
O.B.C. 9.15.5.3.
PILASTER
-CONCRETE NIB - 4" X 12" (100mm X 300mm)
-BLOCK NIB - 4" X 12" (100mm X 300mm) BONDED & TIED TO WALL AS PER O.B.C. 9.20.11.2. TOP 7 7/8" (200mm) SOLID.
OR
BEAM POCKET
-4" (100mm) INTO FDN. WALL W/ WIDTH TO MATCH BEAM SIZE.
-1/2" (13mm) SPACE AROUND WOOD BEAMS (O.B.C. 9.23.2.2.)
STRUCTURAL COLUMNS
-SIZES BASED ON COLUMN SUPPORTING BEAMS CARRYING LOADS FROM NOT MORE THAN 2 WOOD FRAME FLOORS, WHERE THE LENGTHS OF JOISTS CARRIED BY SUCH BEAMS DO NOT EXCEED 16'-1" (4.9m) AND THE LIVE LOAD ON ANY FLOOR DOES NOT EXCEED 50psf (2.4kPa).

8 **STEEL PIPE COLUMN:**
O.B.C. 9.15.3.4. & 9.17.3.
-FIXED COLUMN
-MIN. 3 1/2" (90mm) DIA. W/ 3/16" (4.76mm) WALL THICKNESS
-FOR STEEL BEAMS, CLIPS @ TOP & MIN. 6" X 4" X 1/4" (152mmX 100mmx 6.35mm) STEEL BTM. PLATE
-FOR WOOD BEAMS, MIN. 4"X4"X1/4" (100mmX 100mm X 6.35mm) STEEL TOP & BTM. PLATES, OR TOP PLATE TO EXTEND MIN. WIDTH OF BEAM
-ADJUSTABLE COLUMNS TO CONFORM TO CAN//CGSB-7.2-M WHERE IMPOSED LOAD DOES NOT EXCEED 36 KN (O.B.C. 9.17.3.4.)

COL. SPACING:	FTG SIZE:
2 STOREY	
-MAX. 9'-10" (2997mm)	- 34" X 34" X 16" - (860mmX 860mmX 400mm)
-MAX. 16'-0" (4880mm)	- 44" X 44" X 21" - (1120mmX 1120mmX 530mm)
3 STOREY	
-MAX. 9'-10" (2997mm)	- 40" X 40" X 19" - (1010mmX 1010mmX 480mm)
-MAX. 16'-0" (4880mm)	- 51" X 51" X 24" - (1295mmX 1295mmX 610mm)

-WHERE COL. SITS ON FDN. WALL, USE 4" X 8" X 5/8" (100mmX 200mmX 16mm) STEEL PLATE WITH 2-5/8" (16mm) ANCHOR BOLTS

9 **WOOD COLUMN:**
OBC 9.17.4.1 , 9.17.4.2, & 9.17.4.3.
-5 ½" x 5 ½" (140mm x 140mm) SOLID WOOD COLUMN - OR
-3-2"x6" (38mm x 140mm) BUILT UP COLUMN NAILED TOGETHER W/ 3" (76mm) NAILS SPACED NOT MORE THAN 12" (300mm) APART OR BOLTED TOGETHER W/ 3/8"(9.52mm) DIA BOLTS SPACED AT 18" (450mm) O.C.
-WRAP COLUMN BASE W/ 6 MIL POLY
-COLUMN TO SIT DIRECTLY ON CONC PAD (NOT ON CONC SLAB)
-25"x25"x12" (640mm x 640mm x 300mm) CONC PAD (1 FLOOR SUPPORTED W/ 9'-10" COL SPACING)
-34"x34"x14" (860mm x 860mm x 360mm) CONC PAD (2 FLOORS SUPPORTED W/ 9'-10" COL SPACING)

10 **BLOCK PARTY WALL BEAM END BEARING: (WOOD BEAM / GIRDER TRUSSES)**
-2"X8"X12" LEDGER BOARD FASTENED W/ 2/ 1/2" ANCHOR BOLTS @ 4" O.C.
-WHERE WOOD BEAMS BEAR ON FIREWALLS USE GENERAL NOTE 11 WHERE REQUIRED TO OBTAIN 5" SEPARATION DISTANCE BETWEEN ADJACENT BEAMS

11 **BLOCK PARTY WALL BEAM END BEARING: (STEEL BEAM)**
-12"X11"X 5/8" STL. PLATE ON TOP OF SOLID CONCRETE BLOCK WITH 2- 1/2"Ø x8" ANCHOR BOLTS.

WALL ASSEMBLIES:

14 **FOUNDATION WALL:**
O.B.C. 9.15.4.2.
-FOR WALLS NOT EXCEEDING 8'-2" (2500mm) IN LATERALLY SUPPORTED HEIGHT.
-8" (200mm) SOLID 2200psi (15MPa) CONCRETE
-MAX. UNSUPPORTED HEIGHT OF 3'-11" (1200mm) & MAX. SUPPORTED HEIGHT OF 7'-0" (2150mm) MEASURED FROM GRADE TO FINISHED BASEMENT FLOOR.
-FOR WALLS NOT EXCEEDING 9'-0" (2750mm) IN LATERALLY SUPPORTED HEIGHT.
-10" (250mm) SOLID 2200psi (15MPa) CONCRETE
-MAX. UNSUPPORTED HEIGHT OF 4'-7" (1400mm) & MAX. SUPPORTED HEIGHT OF 8'-6" (2600mm) MEASURED FROM GRADE TO FINISHED BASEMENT FLOOR.
-LATERAL SUPPORT PROVIDED BY ANCHORED SILL PLATE TO JOISTS.
-FOR CONDITIONS EXCEEDING THESE MAXIMUMS AN ALTERNATIVE IN CONFORMANCE TO O.B.C.- T.9.15.4.2.A SHALL BE USED OR IT SHALL BE DESIGNED UNDER O.B.C.- PART 4
-WALL SHALL EXTEND A MIN. 5 7/8" (150mm) ABOVE GRADE
-INSULATE W/ R20 (RSI 3.52) CONTINUOUS INSULATION FROM UNDERSIDE OF SUBFLOOR TO NOT MORE THAN 8" (200mm) ABOVE FINISHED FLOOR OF BASEMENT (ZONE 1 OBC SB-12 T.3.1.1.2.A.)
- ALTERNATE INSULATION METHOD: 2" (51mm) R10 (RSI 1.76)RIGID INSULATION W/ 2"x4"(38mm X 89mm) WOOD STUD W/ R12 (RSI 2.11) BATT INSULATION
-BACK FILL W/ NON-FROST SUSCEPTIBLE SOIL
REDUCTION OF THICKNESS:
O.B.C. 9.15.4.7.
-WHERE THE TOP OF THE FOUNDATION WALL IS REDUCED IN THICKNESS TO ALLOW MASONRY FACING, THE MIN. REDUCED THICKNESS SHALL NOT BE LESS THAN 3-1/2" (90mm) THICK.
-TIE TO FACING MATERIAL WITH METAL TIES SPACED MAX. @ 7 7/8" (200mm) VERTICALLY O.C. & 2'-11" (900mm) HORIZONTALLY.
-FILL SPACE BETWEEN WALL AND FACING SOLID W/ MORTAR
-WHERE WALL IS REDUCED FOR JOISTS, THE REDUCED THICKNESS SHALL BE MAX. 13-3/4" (350mm) HIGH & MIN. 3-1/2" (90mm) THICK
DAMPPROOFING & WATERPROOFING:
-DAMPPROOF THE EXTERIOR FACE OF WALL BELOW GRADE AS PER O.B.C. 9.13.2.
-WHERE INSULATION EXTENDS TO MORE THAN 2'-11" (900mm) BELOW GRADE, A FDN. WALL DRAINAGE LAYER SHALL BE PROVIDED IN CONFORMANCE TO O.B.C. 9.14.2.1.(2) (3) (4)
-FINISHED BASEMENTS SHALL HAVE INTERIOR DAMPPROOFING EXTENDING FROM SLAB TO GRADE LEVEL & SHALL CONFORM TO O.B.C. 9.13.3.3.(3)
-WHERE HYDROSTATIC PRESSURE OCCURS, FDN. WALLS SHALL BE WATERPROOFED AS PER O.B.C. 9.13.3.
-WALLS THAT ARE WATERPROOFED DO NOT REQUIRE DAMPPROOFING.

14a ◆ **FOUNDATION WALLS @ UNSUPPORTED OPENINGS:**
-3-15M BARS IN TOP PORTION OF WALL (UP TO 8'-0" OPENING)
-5-15M BARS IN TOP PORTION OF WALL (8'-0" TO 10'-0" OPENING)
-6-15M BARS IN TOP PORTION OF WALL (10'-0" TO 15'-0" OPENING)
-BARS STACKED VERTICALLY AT INTERIOR FACE OF WALL.
-BARS TO HAVE MIN. 2" (50mm) CONCRETE COVER
-BARS TO EXTEND 2'-0" (600mm) BEYOND BOTH SIDES OF OPENING.

15 **FRAME WALL CONSTRUCTION:**
O.B.C. 9.23.
-SIDING OR STUCCO AS PER ELEVATIONS, MIN. 7 7/8" (200mm) FROM FINISHED GRADE (O.B.C. 9.28.1.4. & 9.27.)
-WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.
-1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16.
-2" X 6" (38mm X 140mm) WOOD STUDS @ 16" (400mm) O.C.
-MIN. R22 (RSI 3.87) INSULATION (ZONE 1. OBC SB-12 T.3.1.1.2.A.)
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4..
-1/2" (12.7mm) GYPSUM BOARD
NOTE - SUPPORT FOR 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. =
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):
O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN)
FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE THE FOLLOWING MATERIALS:
-REPLACE R22 (RSI 3.87) INSULATION WITH R22 (RSI 3.87) ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 4.8 kg/ sq.m.
-REPLACE 1/2" (12.7mm) INTERIOR GYPSUM BOARD WITH 1/2" (12.7mm) TYPE 'X' GYPSUM BOARD.

REQ. FOR FIRE RATING (LESS THAN 2'-0" LIMITING DISTANCE):
-REFER TO REQUIREMENTS FOR LESS THAN 4'-0" LIMITING DISTANCE AND ADD/REPLACE THE FOLLOWING:
-NON-COMBUSTABLE SIDING OR STUCCO AS PER ELEVATIONS (REFER TO MANUFACTURER'S SPECIFICATIONS).
OR
-VINYL SIDING IS PERMITTED PER O.B.C. 9.10.15.5.(3). OVER 1/2" (12.7mm) GYPSUM EXTERIOR SHEATHING WHICH REPLACES EXTERIOR PLYWOOD OR EQUIV.

15a **ALTERNATE FRAME WALL CONSTRUCTION:**
O.B.C. 9.23.
-SIDING OR STUCCO AS PER ELEVATIONS, MIN. 7 7/8" (200mm) FROM FINISHED GRADE (O.B.C. 9.28.1.4. & 9.27.)
-1 1/2" (38mm) R8 (RSI 1.41) RIGID INSULATION W/ TAPED JOINTS (O.B.C. 9.27.3.4.)
-BRACE W/ CONT. 16 GAUGE STEEL 'T' BRACES FROM TOP PLATE TO BTM. PLATE FOR THE FULL LENGTH OF WALL, OR CONT. 2" X 4" (38mmX 89mm) SOLID WOOD BLOCKING @ APPROXIMATELY 45 DEG. FROM TOP PLATE TO BTM. PLATE FOR FULL LENGTH OF WALL.
-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C. @ 12" (300mm) O.C. ON BOTTOM FLR. WHEN 3 STOREYS.
-R14 (RSI 2.46) INSULATION
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. & 9.25.4.
-1/2" (12.7mm) GYPSUM BOARD.
NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. =
-FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):
O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN)
FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE THE FOLLOWING MATERIALS:
-ADD 1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16. BETWEEN RIGID INSULATION AND WOOD STUD.
-REPLACE R14 (RSI 2.46) INSULATION WITH R14 (RSI 2.46) ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 2.8 kg/ sq.m.
-REPLACE 1/2"(12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

REQ. FOR FIRE RATING (LESS THAN 2'-0" LIMITING DISTANCE):
-REFER TO REQUIREMENTS FOR LESS THAN 4'-0" LIMITING DISTANCE AND ADD/REPLACE THE FOLLOWING:
-NON-COMBUSTABLE SIDING OR STUCCO AS PER ELEVATIONS (REFER TO MANUFACTURER'S SPECIFICATIONS).
OR
-VINYL SIDING IS PERMITTED PER O.B.C. 9.10.15.5.(3). OVER SHEATHING PAPER OVER 1/2" (12.7mm) GYPSUM EXTERIOR SHEATHING ON EXTERIOR SIDE OF RIGID FOAM WALL

15b **FRAME WALL CONSTRUCTION @ GARAGE:**
O.B.C. 9.23.
-SIDING OR STUCCO AS PER ELEVATIONS, MIN. 7 7/8" (200mm) FROM FINISHED GRADE (O.B.C. 9.28.1.4. & 9.27.)
-WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.
-1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16.
-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C.
-1/2" (12.7mm) GYPSUM BOARD
NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. =
-FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):
O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN)
FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
-ADD ABSORPTIVE MATERIAL WITH A MASS OF AT LEAST 2.8 kg/ sq.m.
-REPLACE 1/2"(12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

REQ. FOR FIRE RATING (LESS THAN 2'-0" LIMITING DISTANCE):
-REFER TO REQUIREMENTS FOR LESS THAN 4'-0" LIMITING DISTANCE AND ADD/REPLACE THE FOLLOWING:
-NON-COMBUSTABLE SIDING OR STUCCO AS PER ELEVATIONS (REFER TO MANUFACTURER'S SPECIFICATIONS).
OR
-VINYL SIDING IS PERMITTED PER O.B.C. 9.10.15.5.(3). OVER SHEATHING PAPER OVER 1/2" (12.7mm) GYPSUM EXTERIOR SHEATHING WHICH REPLACES EXTERIOR PLYWOOD OR EQUIV.

16 **BRICK VENEER CONSTRUCTION:**
O.B.C. 9.23.
-3-1/2" (90mm) FACE BRICK OR 4" (100mm) STONE @ 36'-1" (11m) MAX. HEIGHT
-MIN. 0.03" (0.76mm) THICK, 7/8" (22mm) WIDE CORROSION RESISTANT STRAPS @ MAX. 15 3/4" (400mm) O.C. HORIZONTAL & 23 5/8" (600mm) O.C. VERTICAL SPACING
-PROVIDE WEEP HOLES @ 2'-7" (800mm)O.C. @ BTM. COURSE & OVER OPENINGS
-BASE FLASHING UP TO 5 7/8" (150mm) BEHIND WALL SHEATHING MEMBRANE (O.B.C. 9.20.13.6.(2))
-BRICK OR STONE SILLS UNDER OPENINGS, FLASHING UNDER
-1" (25mm) AIR SPACE
-WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.
-1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16
-2" X 6" (38mmX 140mm) WOOD STUDS @ 16" (400mm) O.C.
-MIN. R22 (RSI 3.87) INSULATION (ZONE 1. OBC SB-12 T.3.1.1.2.A.)
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. & 9.25.4.
-1/2" (12.7mm) GYPSUM BOARD
NOTE - SUPPORT FOR 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. =
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):
O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN)
FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
-REPLACE R22 (RSI 3.87) INSULATION WITH R22 (RSI 3.87) ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 4.8 kg/ sq.m.
-REPLACE 1/2"(12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

16a **ALTERNATE BRICK VENEER CONSTRUCTION:**
O.B.C. 9.23.
-3-1/2" (90mm) FACE BRICK OR 4" (100mm) STONE @ 36'-1" (11m) MAX. HEIGHT
-MIN. 0.03" (0.76mm) THICK, 7/8" (22mm) WIDE CORROSION RESISTANT STRAPS @ MAX. 15 3/4" (400mm) O.C. HORIZONTAL & 23 5/8" (600mm) O.C. VERTICAL SPACING
-PROVIDE WEEP HOLES @ 2'-7" (800mm)O.C. @ BTM. COURSE & OVER OPENINGS
-BASE FLASHING UP TO 5 7/8" (150mm) BEHIND WALL SHEATHING MEMBRANE (O.B.C. 9.20.13.6.(2))
-BRICK OR STONE SILLS UNDER OPENINGS, FLASHING UNDER
-1" (25mm) AIR SPACE
-1 1/2" (38mm) R8 (RSI 1.41) RIGID INSULATION W/ TAPED JOINTS (O.B.C. 9.27.3.4.)
-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C. @ 12" (300mm) O.C. ON BOTTOM FLR. WHEN 3 STOREYS
-BRACE W/ CONT. 16 GAUGE STEEL 'T' BRACES FROM TOP PLATE TO BTM. PLATE FOR THE FULL LENGTH OF WALL, OR
-CONT. 2" X 4" (38mmX 89mm) SOLID WOOD BLOCKING @ APPROXIMATELY 45 DEG. FROM TOP PLATE TO BTM. PLATE FOR FULL LENGTH OF WALL
-R14 (RSI 2.46) INSULATION
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. & 9.25.4.
-1/2" (12.7mm) GYPSUM BOARD
NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. =
-FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):
O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN)
FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
-ADD 1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16. BETWEEN RIGID INSULATION AND WOOD STUD.
-REPLACE R14 (RSI 2.46) INSULATION WITH R14 (RSI 2.46) ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 2.8 kg/ sq.m.
-REPLACE 1/2"(12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

16b **BRICK VENEER CONSTRUCTION @ GARAGE:**
O.B.C. 9.23.
-3-1/2" (90mm) FACE BRICK OR 4" (100mm) STONE @ 36'-1" (11m) MAX. HEIGHT
-MIN. 0.03" (0.76mm) THICK, 7/8" (22mm) WIDE CORROSION RESISTANT STRAPS @ MAX. 15 3/4" (400mm) O.C. HORIZONTAL & 23 5/8" (600mm) O.C. VERTICAL SPACING
-PROVIDE WEEP HOLES @ 2'-7" (800mm)O.C. @ BTM. COURSE & OVER OPENINGS
-BASE FLASHING UP TO 5 7/8" (150mm) BEHIND WALL SHEATHING MEMBRANE (O.B.C. 9.20.13.6.(2))
-BRICK OR STONE SILLS UNDER OPENINGS, FLASHING UNDER
-1" (25mm) AIR SPACE
-WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.
-1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16
-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C.
-1/2" (12.7mm) GYPSUM BOARD
NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. =
-FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

THESE DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RN DESIGN LTD

◆ *CLIENT SPECIFIC REVISIONS*

File:C:_RN_Standards\temp\AcPublish_42204\14084-36-02-FINAL.dwg Plotted: Mar 14, 2017 By:SamanthaP

I, ARTHUR PUI YAN LAW DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD**,UNDER DIVISION C,PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.
QUALIFIED DESIGNER BCIN: 41230
FIRM BCIN: 26995
DATE: Sept. 30, 2016
SIGNATURE:

client: Zancor/ Pristine/ Fernbrook
location: Innisfil
project: Belle Aire Shores
marketing name:

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	29-May-15	KK	IT					
2	ISSUED FOR PERMIT	30-Sep-16	KH	AL					

RN design
Imagine ▸ Inspire ▸ Create

model: 36-02
scale: 3/16" = 1'0"
project #: 14084
page: D1

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):

O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN)
FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
-ADD R15 (RSI 2.64) ABSORPTIVE MATERIAL WITH A MASS OF AT LEAST 2.8 kg/sq.m.
-REPLACE 1/2"(12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

17 **INTERIOR STUD WALLS:**
O.B.C. T.9.23.10.1.
-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C. OR
-2" X 6" (38mmX 140mm) WOOD STUDS @ 16" (400mm) O.C. W/
- DOUBLE 2" X 4" OR 2" X 6" TOP PLATES AND SINGLE BOTTOM PLATE
-1/2" (12.7mm) GYPSUM BOARD BOTH SIDES.

18 **BEARING STUD WALL (BASEMENT):**
-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C. OR
-2" X 6" (38mmX 140mm) WOOD STUDS @ 16" (400mm) O.C. W/
- DBL. 2" X 4" OR 2" X 6" TOP PLATE.
- 2" X 4" OR 2" X 6" BOTTOM PLATE ON DAMPPROOFING MATERIAL.
-1/2" (12.7mm) GYPSUM BOARD BOTH SIDES.
-1/2" (12.7mm) DIA. ANCHOR BOLTS @ 7'-10" (2400mm) O.C.
-FOOTING AS PER GENERAL NOTE #2 W/ 4" CONC. CURB

19 **PARTY WALL - BLOCK:**
O.B.C. SB-3 WALL = B6e (STC = 57, FIRE = 2 HR)
-MIN. 1HR FIRE-RESISTANCE RATING CONTINUOUS FROM TOP OF FOOTINGS TO THE U/S OF ROOF DECK
-SPACE BETWEEN TOP OF WALL & ROOF DECK SHALL BE TIGHTLY FILLED W/ MINERAL WOOL OR NONCOMBUSTIBLE MATERIAL & CAULKED TO PREVENT SMOKE PASSAGE
-1/2" (12.7mm) GYPSUM BOARD W/ TAPED JOINTS BOTH SIDES
-2" X 2" (38mmX 38mm) WOOD STRAPPING @ 24" (600mm) O.C. BOTH SIDES
-ABSORPTIVE MATERIAL ON BOTH SIDES FILLING A MINIMUM OF 90% OF THE CAVITY.
-7 1/2" (190mm) HOLLOW BLOCK (NORMAL WEIGHT AGGREGATE)
-STAGGER JOISTS & BEAMS MIN. 3 1/2" (90mm) @ PARTY WALLS AS PER O.B.C. 9.10.9.9.(1) & TABLE 2.1.1. SB-2
-ACOUSTICAL SEALANT AS PER O.B.C. SB-3 (NOTE (2) TO TABLE 1)

19a **PARTY WALL - BLOCK (AGAINST GARAGE):**
O.B.C. SB-3 WALL = B5c (STC = 51, FIRE = 2 HR)
-MIN. 1HR FIRE-RESISTANCE RATING CONTINUOUS
-1/2" (12.7mm) GYPSUM BOARD
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. & 9.25.4.
-2" X 4" (38mmX 89mm) WOOD STRAPPING @ 16" (400mm) O.C.
-R20 (RSI 3.52) RIGID INSULATION
-7 1/2" (190mm) HOLLOW BLOCK (NORMAL WEIGHT AGGREGATE)
-1/2" (12.7mm) GYPSUM BOARD @ WALL & U/S OF CEILING BETWEEN HOUSE AND GARAGE
-TAPE AND SEAL ALL JOINTS GAS TIGHT

REQ. INSULATION VALUES:

INSULATION VALUES PROVIDED BY CAN/CSA-F280-M90

-RIGID INSULATION	= 20.00
-LOW DENSITY CONCRETE BLOCK	= 1.70
-WOOD FRAME W/ GYPSUM	= 2.72
-AIR FILM - MOVING	= 0.68
-AIR FILM - STILL	= 0.17
TOTAL "R" VALUE	= 25.27

19b **FIREWALL:**
O.B.C. 9.10.11. & 3.1.10. & SB-3 WALL = B6e (STC = 57, FIRE = 2 HR)
- ONE FIREWALL IS REQUIRED FOR EVERY 6460 S.F. (600 SQ.M) OF BUILDING AREA, O.B.C. T.3.2.2.47.
-1/2" (12.7mm) GYPSUM BOARD W/ TAPED JOINTS
-2" X 2" (38mmX 38mm) WOOD STRAPPING @ 24" (600mm) O.C. ON BOTH SIDES OF WALL
-SOUND ABSORPTIVE MATERIAL EACH SIDE FILLING 90% OF THE CAVITY
-7 1/2" (190mm) CONC. BLOCK, MIN. 2 HR. FIRE-RESISTANT RATING
-EVERY FIREWALL SHALL BE CONTINUOUS THROUGH ALL BUILDING STOREYS
-STAGGER JOISTS & BEAMS MIN. 5" (130mm) @ FIRE WALLS AS PER O.B.C. 9.10.9.9.(1) & TABLE 2.1.1 SB-2
-ACOUSTICAL SEALANT AS PER O.B.C. SB-3 (NOTE (2) TO TABLE 1)
-PROTRUDE PAST FASCIA @ EAVES W/ BRICK CORBELLING
-EXTEND 5 7/8" (150mm) ABOVE ROOF SURFACES & HAVE ALUMINUM CAP W/ THROUGH WALL FLASHING PER O.B.C. 3.1.10.4.(1)
-WHERE THE DIFFERENCE IN HEIGHT BETWEEN ADJACENT ROOFS IS GREATER THAN 9'10" (3m), WALL NEED NOT EXTEND PAST UPPER ROOF SURFACE PER O.B.C. 3.1.10.4.(2)

20 **PARTY WALL - FOUNDATION:**
O.B.C. 9.15.4.2.
-7 7/8" (200mm) SOLID CONC. FOUNDATION WALL @ 2200psi (15MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS
-FOUNDATION WALL TO REST ON FOOTING PER GENERAL NOTE #2

21 **PARTY WALL - WOOD STUD:**
O.B.C. SB-3 WALL = W13a (STC = 57, FIRE = 1 HR)
-MIN. 1HR FIRE-RESISTANCE RATING CONTINUOUS FROM TOP OF FOOTINGS TO THE U/S OF ROOF DECK
-2 ROWS 2"X4"(38mmX 89mm) STUDS @ 16"(400mm) O.C. W/ SEPARATE 2" X 4" (38mmX 89mm) BOTTOM PLATE & SEPARATE DOUBLE 2" X 4" (38mmX 89mm) TOP PLATES
-SOUND ABSORPTIVE MATERIAL ON BOTH SIDES FILLING A MINIMUM OF 90% OF THE CAVITY.
-5/8" (16mm) TYPE 'X' GYPSUM BOARD BOTH SIDES W/ JOINTS TAPED & FILLED.
-ACOUSTICAL SEALANT AS PER O.B.C. SB-3 (NOTE (2) TO TABLE 1)
NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. =
-FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

22 **GARAGE WALL & CEILING:**
O.B.C. 9.10.9.16.(3)
-1/2" (12.7mm) GYPSUM BOARD ON BOTH SIDES OF WALL & U/S OF CEILING BETWEEN HOUSE AND GARAGE
-TAPE AND SEAL ALL JOINTS GAS TIGHT
-R22 (RSI 3.87) INSULATION IN WALLS,
-R31 (RSI 5.41) INSULATION IN CEILINGS W/ FLOOR ABOVE
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. & 9.25.4.. FOR FLOOR ABOVE.
-INSULATION AROUND DUCTS AND PIPING NOT TO ENCROACH MIN. REQUIRED GARAGE AREA (REFER TO MUNICIPAL STANDARDS).
-1/2" (12.7mm) GYPSUM BOARD
-ROOF FRAMING MEMBERS ARE FASTENED TO TOP PLATES WITH 4 - 3 1/4" (82mm) TOE NAILS
-BOTTOM PLATES ARE FASTENED TO FLOOR JOISTS, BLOCKING OR RIM JOIST WITH 3 1/4" (82mm) NAILS AT 7 7/8" (200mm) O.C.

22a **WALLS ADJACENT TO ATTIC SPACE:**
-1/2" (12.7mm) GYPSUM BOARD
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. & 9.25.4.
-2" X 6" (38mmX 140mm) WOOD STUDS @ 16" (400mm) O.C.
-R22 (RSI 3.87) INSULATION
-1/2" (12.7mm) GYPSUM BOARD OR 1/4" (6mm) PLYWOOD SHEATHING ON ATTIC SIDE.
-ATTIC ACCESS TO BE PROVIDED AS PER O.B.C. 9.19.2.1.

23 **DOUBLE VOLUME WALLS:**
O.B.C. 9.23.10.1.
-3/8" (9.5mm) PLYWOOD, OSB OR WATERBOARD SHEATHING
-REFER TO PLAN FOR STUD SPECIFICATION
-STUDS FASTENED AT TOP & BOTTOM WITH 3/ 3-1/4" (82mm) TOE NAILS
-DOUBLE TOP PLATES FASTENED TOGETHER WITH 3" (76mm) AT 7 7/8" (200mm) O.C.
-SOLID BRIDGING AT 3'-11" (1200mm) O.C.
-MIN. R22 (RSI 3.87) INSULATION (ZONE 1 OBC SB-12 T.3.1.1.2.A.)
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE WITH O.B.C. 9.25.3. & 9.25.9.

◆ *CLIENT SPECIFIC REVISIONS*

24 **EXPOSED FLOOR:**
-FLOOR AS PER NOTE # 28
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. & 9.25.4.
-R31 (RSI 5.46) INSULATION
-VENTED ALUMINUM SOFFIT

24a **SUNKEN FINISHED AREAS:**
-USE SOLID BUILT-UP WOOD BEARING POST TO SUPPORT SUNKEN AREA AT FOUNDATION WALLS. EXTEND FOOTINGS TO SUPPORT POSTS.
- WHERE GRADING CONDITIONS WILL ALLOW, CHECK FOUNDATION WALLS INSTEAD OF USING BEARING POSTS.
-FLOOR STRUCTURE AS PER NOTE # 28.

25 **DOUBLE MASONRY WYTHE WALL:**
O.B.C. 9.20.8.2.
-3 1/2" MASONRY VENEER ON 2" MORTAR JOINT ON 3 1/2" MASONRY VENEER
-WYTHES TO BE TIED W/ METAL TIES INSTALLED AS PER O.B.C. 9.20.9.4.
SILL PLATE REQUIRED FOR ROOF AND CEILING FRAMING MEMBERS
-6" SILL W/ 2" BEARING ON EACH SIDE & ANCHOR BOLTS @ 4'-0" O.C.
NOTE: MASONRY TO BE SOLID & MORTAR JOINT FILLED SOLID FOR FLOOR JOISTS BEARING ON WYTHES. FLOOR JOISTS ARE NOT TO PROJECT INTO CAVITY AREA.

25a **CORBEL MASONRY VENEER:**
-MASONRY VENEER TO BE CORBELLED AS PER O.B.C. 9.20.12.3.(1)

FLOOR ASSEMBLIES:

26 **SILL PLATE:**
O.B.C. 9.23.7.
-2" X 4" (38mm X 89mm) PLATE
-1/2" (12.7mm) DIA. ANCHOR BOLTS @ 7'-10" (2400mm) O.C. FASTENED TO PLATE W/ NUTS AND WASHERS & SHALL BE EMBEDDED NOT LESS THAN 4" (100mm) INTO FOUNDATION WALL.
-SILL PLATE TO BE CAULKED, OR PLACED ON A LAYER NOT LESS THAN 1" (25mm) THICK BEFORE COMPRESSING, OR FOAM GASKET, OR PLACED ON FULL BED OF MORTAR.

27 **BRIDGING & STRAPPING:**
O.B.C. 9.23.9.4.
a) STRAPPING
-1" X 3" (19mmX 64mm) NAILED TO U/S OF JOISTS @ MAX. 6'-11" (2100mm) O.C.
-FASTENED TO SILL OR HEADER @ ENDS
b) BRIDGING
-1" X 3" (19mmX 64mm) OR 2" X 2" (38mmX 38mm) CROSS BRIDGING @ MAX. 6'-11" (2100mm) O.C.
c) BRIDGING & STRAPPING
- a) & b) USED TOGETHER OR
-1 1/2" (38mm) SOLID BLOCKING @ MAX. 6'-11" (2100mm) O.C. USED WITH STRAPPING (a)
d) FURRING OR PANEL TYPE CEILING
-STRAPPING NOT REQUIRED IF FURRING STRIPS OR PANEL TYPE CEILING FINISH IS ATTACHED DIRECTLY TO JOISTS.

28 **FLOOR ASSEMBLY:**
O.B.C. 9.23.14.3, 9.23.14.4
-5/8" (15.9mm) WAFERBOARD (R-1 GRADE) OR EQUIVALENT
-FLOOR JOISTS AS PER FLOOR PLANS

29 **PORCH SLAB:**
O.B.C. 9.39.1.4.
-4 7/8" (125mm) 4650 psi (32 MPa) CONC. SLAB WITH 5 TO 8% AIR ENTRAINMENT
-REINFORCE WITH 10M BARS @ 7 7/8" (200mm) EACH WAY
-1 1/4" (30mm) CLEAR COVER FROM THE BOTTOM OF THE SLAB
-3" (75mm) END BEARING ON FOUNDATION WALL
-23 5/8" (600mm) X 23 5/8" (600mm) 10M DOWELS @ 23 5/8" (600mm) O.C.
-IF A COLD CELLAR IS LOCATED BELOW THE SLAB, SUPPORT ON FOUNDATION WALLS NOT TO EXCEED 8'-2"

30 **EXTERIOR BALCONY ASSEMBLY:**
-1 1/4" X 3 1/2" PRESSURE TREATED DECKING W/ 1/4" SPACING
-2"X4" WOOD PURLINS (CUT DIAGONALLY) @ 12" O.C. LAYING UNFASTENED ON SINGLE PLY WATERPROOF ROOF MEMBRANE OR EQUIVALENT ON 5/8" (15.9mm) EXTERIOR GRADE PLYWOOD SHEATHING ON 2"X4" WOOD PURLINS (CUT DIAGONALLY) @ 12" O.C. DIRECTLY ON 2"X8" ROOF JOISTS @ 12" O.C. (OR AS NOTED ON PLAN)
- EXTERIOR GUARD AS PER #36a
- SLOPE ASSEMBLY MINIMUM 2% TO ROOF SCUPPER

REQUIRED FOR OVER HEATED SPACES:
-ADD 2"x2" (38mm x 38mm) CROSS PURLINS @ 16" (400mm) O.C. FOR VENTILATION OVER JOISTS (OBC 9.19.1.2. VENTING NOT LESS THAN 1/150 OF CEILING AREA)
-ADD R31 (RSI 5.46) INSULATION BETWEEN JOISTS
-ADD CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.
-ADD 1/2" (12.7mm) GYPSUM BOARD W/ PAINTED CEILING OR
-ADD 5/8" (15.9mm) GYPSUM BOARD W/ TEXTURED CEILING (O.B.C.-T.9.29.5.3.)

30a **EXTERIOR FLAT ROOF ASSEMBLY:**
-SINGLE PLY WATERPROOF ROOF MEMBRANE OR EQUIVALENT INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
-1/4" EXTERIOR GRADE WOOD PANEL TYPE UNDERLAY TAPERED PURLINS SLOPED MIN. 2% TO ROOF SCUPPER.
-3/8" EXTERIOR GRADE PLYWOOD SHEATHING ON
-2"X8" ROOF JOISTS @ 12" O.C. (OR AS NOTED ON PLAN)

REQUIRED FOR OVER HEATED SPACES:
-ADD 2"x2" (38mm x 38mm) CROSS PURLINS @ 16" (400mm) O.C. FOR VENTILATION OVER JOISTS (OBC 9.19.1.2. VENTING NOT LESS THAN 1/150 OF CEILING AREA)
-ADD R31 (RSI 5.46) INSULATION BETWEEN JOISTS
-ADD CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.
-ADD 1/2" (12.7mm) GYPSUM BOARD W/ PAINTED CEILING OR
-ADD 5/8" (15.9mm) GYPSUM BOARD W/ TEXTURED CEILING (O.B.C. T.9.29.5.3.)

ROOF ASSEMBLIES

31 **TYPICAL ROOF:**
O.B.C. 9.26.
-NO. 210 (30. 5KG/m2) ASPHALT SHINGLES
-FOR ROOFS BETWEEN 4:12 & 8:12 PITCH PROVIDE EAVES PROTECTION TO EXTEND UP THE ROOF SLOPE MIN. 2'-11" (900mm) FROM EDGE TO A LINE NOT LESS THAN 12" (300mm) PAST THE INSIDE FACE OF EXTERIOR WALL.
-EAVES PROTECTION LAID BENEATH STARTER STRIP.
-EAVE PROTECTION NOT REQUIRED OVER UNHEATED SPACES.
-STARTER STRIP AS PER O.B.C. 9.26.7.2.
-STARTER STRIP NOT REQUIRED AS PER O.B.C. 9.26.7.2.(3)
-3/8" (10mm) PLYWOOD SHEATHING OR OSB (0-2 GRADE) WITH "H" CLIPS
-APPROVED WOOD TRUSSES @ 24" (600mm) O.C. (REFER TO MANUFACTURER'S LAYOUT)
-TRUSS BRACING AS PER TRUSS MANUFACTURER
-EAVESTROUGH ON PREFINISHED FASCIA AND VENTED SOFFIT (VINYL OR ALUMINUM)
-ATTIC VENTILATION 1:300 OF INSULATED CEILING AREA WITH, 50% AT SOFFIT.

32 **CEILING:**
-R60 (RSI 10.56) INSULATION
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.
-1/2" (12.7mm) GYPSUM BOARD W/ PAINTED CEILING OR
-5/8" (15.9mm) GYPSUM BOARD W/ TEXTURED CEILING (O.B.C. T.9.29.5.3.)

32a **VAULTED OR CATHEDRAL CEILING:**
O.B.C. 9.26. & TABLE A4
-NO. 210 (30. 5KG/m2) ASPHALT SHINGLES
-FOR ROOFS BETWEEN 4:12 & 8:12 PITCH PROVIDE EAVES PROTECTION TO EXTEND UP THE ROOF SLOPE MIN. 2'-11" (900mm) FROM EDGE TO A LINE NOT LESS THAN 12" (300mm) PAST THE INSIDE FACE OF EXTERIOR WALL.
-EAVES PROTECTION LAID BENEATH STARTER STRIP.
-EAVE PROTECTION NOT REQUIRED OVER UNHEATED SPACES OR WHERE ROOF SLOPES ARE 8:12 OR GREATER PER O.B.C. 9.26.5.1.
-STARTER STRIP AS PER O.B.C. 9.26.7.2.
-STARTER STRIP NOT REQUIRED AS PER O.B.C. 9.26.7.2.(3)
-3/8" (10mm) PLYWOOD SHEATHING OR OSB (0-2 GRADE) WITH "H" CLIPS.
-2"x8" (38mm x 184mm) @ 16" O.C. W/ 2"x2" (38mm x 38mm) CROSS PURLINS @ 24" O.C. MAX. SPAN 13'-3" (4050mm) OR
-2"x10" (38mm x 235mm) @ 16" O.C. W/ 2"x2" (38mm x 38mm) CROSS PURLINS @ 24" O.C. MAX. SPAN 17'-0" (5180mm)
-R31 (RSI 5.46) INSULATION
-MIN. 3" CLEARANCE FROM U/S OF ROOF SHEATHING TO INSULATION
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE WITH O.B.C. 9.25.3. & 9.25.4.
-1/2" (12.7mm) GYPSUM BOARD

33 **CONVENTIONAL FRAMING:**
O.B.C. TABLE A6 OR A7
-2" X 6" (38mm X 140mm) RAFTERS @ 16" (400mm) O.C. MAX. SPAN 12'-9" (3890mm)
-2"X4" (38mm X 89mm) COLLAR TIES AT MIDSPANS
-CEILING JOISTS TO BE 2" X 6" (38mmX 140mm) @ 16" (400mm) O.C. UNLESS OTHERWISE NOTED.
-HIP & VALLEY RAFTERS TO BE MIN. 2" (50mm) LARGER THAN COMMON RAFTERS & MIN. 1 1/2" (38mm) THICK.

34 **ATTIC ACCESS HATCH:**
OBC 9.19.2.1. & SB-12 3.1.1.8.(1)
-19 3/4" X 27 1/2" (500mm X 700mm) ATTIC HATCH WITH WEATHERSTRIPPING & BACKED W/ R20 (RSI 3.52) INSULATION.

GENERAL:

35 **PRIVATE STAIRS:**
O.B.C. 9.8.4.

-MAX. RISE	= 7-7/8"	(200mm)
-MIN. RUN	= 8-1/4"	(210mm)
-MIN. TREAD	= 9-1/4"	(235mm)
-MAX. NOSING	= 1"	(25mm)
-MIN. HEADROOM	= 6'-5"	(1950mm)
-MIN. WIDTH (BETWEEN WALL FACES)	= 2'-10"	(860mm)
-MIN. WIDTH (EXIT STAIRS, BETWEEN GUARDS)	= 2'-11"	(900mm)
ANGLED TREADS:		
-MIN. RUN	= 5 7/8"	(150mm)
-MIN. AVG. RUN	= 7 7/8"	(200mm)

-FINISHED RAILING ON WOOD PICKETS MAX. 4" BETWEEN PICKETS
-EXTERIOR CONC. STEPS TO HAVE MIN. 9 1/4" (235mm) TREAD & MAX. 7 7/8" (200mm) RISE
-FOUND. WALL REQUIRED WHEN NUMBER OF RISERS EXCEEDS 2
-FTG. FOR FOUND. WALL TO BE MIN. 4'-0" (1220mm) BELOW GRADE

HANDRAILS:
O.B.C. 9.8.7
-ONE HANDRAIL REQUIRED WHERE STAIR WIDTH IS LESS THAN 3'-7" (1100mm)
-TWO HANDRAILS REQUIRED WHERE STAIR WIDTH EXCEEDS 3-'7" (1100mm)
-ONE HANDRAIL IS REQUIRED ON CURVED STAIRS OF ANY WIDTH WITHIN DWELLING UNITS
-HANDRAILS ARE TO BE CONTINUOUS EXCEPT WHERE INTERRUPTED BY DOOR WAYS, LANDINGS OR POSTS AT CHANGES IN DIRECTION

HEIGHT:
O.B.C. 9.8.7.4
- 2'-10" (865mm) MIN. TO 3'-2" (965mm) MAX.
- 3'-6" (1070mm) WHERE GUARDS ARE REQUIRED ON LANDINGS
-MEASURED VERTICALLY FROM THE TOP OF THE HANDRAIL TO A STRAIGHT LINE DRAWN FROM THE TANGENT TO THE TREAD NOSING

PROJECTIONS:
O.B.C. 9.8.7.6
-HANDRAILS AND PROJECTIONS BELOW HANDRAILS INCLUDING STEP STRINGERS TO PROJECT A MAXIMUM OF 4" (100mm) INTO THE REQUIRED WIDTH OF THE STAIR

35a **PUBLIC STAIRS:**
O.B.C. 9.8.4.

-MAX. RISE	= 7-3/32"	(180mm)
-MIN. RUN	= 11"	(280mm)
-MIN. TREAD	= 11"	(280mm)
-MAX. NOSING	= 1"	(25mm)
-MIN. HEADROOM	= 6'-9"	(2050mm)
-MIN. WIDTH (EXIT STAIRS, BETWEEN GUARDS)	= 2'-11"	(900mm)

-FINISHED RAILING ON WOOD PICKETS MAX. 4" BETWEEN PICKETS
-FOUND. WALL REQUIRED WHEN NUMBER OF RISERS EXCEEDS 2
-FTG. FOR FOUND. WALL TO BE MIN. 4'-0" (1220mm) BELOW GRADE

HANDRAILS:
O.B.C. 9.8.7
-ONE HANDRAIL REQUIRED WHERE STAIR WIDTH IS LESS THAN 3'-7" (1100mm)
-TWO HANDRAILS REQUIRED WHERE STAIR WIDTH EXCEEDS 3-'7" (1100mm)
-TWO HANDRAILS ARE REQUIRED ON CURVED STAIRS OF ANY WIDTH
-HANDRAILS ARE TO BE CONTINUOUS INCLUDING AT LANDINGS EXCEPT WHERE INTERRUPTED BY DOOR WAYS OR NEWEL POSTS AT CHANGES IN DIRECTION

HEIGHT:
O.B.C. 9.8.7.4
- 2'-10" (865mm) MIN. TO 3'-2" (965mm) MAX.
- 3'-6" (1070mm) WHERE GUARDS ARE REQUIRED ON LANDINGS)
- MEASURED VERTICALLY FROM THE TOP OF THE HANDRAIL TO A STRAIGHT LINE DRAWN FROM THE TANGENT TO THE TREAD NOSING

PROJECTIONS:
O.B.C. 9.8.7.6
- HANDRAILS AND PROJECTIONS BELOW HANDRAILS INCLUDING STEP STRINGERS TO PROJECT A MAXIMUM OF 4" (100mm) INTO THE REQUIRED WIDTH OF THE STAIR

TERMINATION:
O.B.C. 9.8.7.3
- ONE HAND RAIL SHALL EXTEND HORIZONTALLY NOT LESS THAN 11 3/4" (300mm) BEYOND THE TOP & BOTTOM OF EACH STAIR

FINISH:
O.B.C. 9.8.9.6
-TREADS ARE TO BE WEAR AND SLIP RESISTANT, SMOOTH, EVEN AND FREE FROM DEFECTS PER OBC 9.8.9.6.(4)
- STAIRS AND RAMPS SHALL HAVE A COLOUR CONTRAST OR DISTINCTIVE VISUAL PATTERN TO DEMARCATE THE LEADING EDGE OF THE TREADS, LANDING AND THE BEGINNING AND END OF A RAMP.

36 **INTERIOR GUARDS:**
O.B.C. SB-7 & 9.8.8.3.
-GUARDS TO BE 3'-6" (1070mm) HIGH
-FOR DWELLING UNITS GUARDS TO BE A MIN. OF 2'-11" (900mm) HIGH
-INCLUDES WINDOWS OVER STAIRS, RAMPS AND LANDINGS
-PICKETS TO HAVE 4" (100mm) MAX. SPACING
-GUARDS FOR FLIGHTS OF STEPS (EXCEPT EXIT STAIRS) TO BE 2'-11" (900mm) HIGH

36a **EXTERIOR GUARDS:**
O.B.C. SB-7 & 9.8.8.3.
-GUARDS ARE REQUIRED WHEN WALKING SURFACE TO GRADE IS GREATER THAN 23 5/8" (600mm).
-GUARDS TO BE 3'-6" (1070mm)
-FOR DWELLING UNITS GUARDS TO BE A MIN. OF 2'-11" (900mm) HIGH
-FOR DWELLING UNITS GUARDS TO BE 3'-6" (1070mm) HIGH WHERE WALKING SURFACE IS MORE THAN 5'-11" (1800mm) ABOVE ADJACENT GRADE.
-PICKETS TO HAVE 4" (100mm) MAX. SPACING
-PROVIDE MID-SPAN POSTS AS PER SB-7.
-GUARDS FOR FLIGHTS OF STEPS (EXCEPT EXIT STAIRS) TO BE 2'-11" (900mm) HIGH

THESE DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RN DESIGN LTD

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I, ARTHUR PUI YAN LAW DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD**,UNDER DIVISION C,PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.

QUALIFIED DESIGNER BCIN:	41230
FIRM BCIN:	26995
DATE:	Sept. 30, 2016

SIGNATURE:

client: Zancor/ Pristine/ Fernbrook
location: Innisfil
project: Belle Aire Shores
marketing name

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	29-May-15	KK	IT					
2	ISSUED FOR PERMIT	30-Sep-16	KH	AL					

RN design
Imagine ▸ Inspire ▸ Create

model: 36-02
scale: 3/16" = 1'0"
project #: 14084
page: D2

36b EXTERIOR GUARDS @ JULIET BALCONY:
-FOR RAILING SPANNING MAXIMUM OF 6'-0".
-PROVIDE PREFIN. METAL RAILING W/ 76mm VERTICAL OPENING TO CONFORM WITH O.B.C. APPENDIX A-9.8.8.5.
-GUARDS TO BE 3'-6" (1070mm)
-FOR DWELLING UNITS GUARDS TO BE 2'-11" (900mm) WHERE FLOOR TO GRADE DIFFERENCE IS LESS THAN 5'-11" (1800mm) AS PER O.B.C. 9.8.8.2. OR
-FOR DWELLING UNITS GUARDS TO BE 3'-6" WHERE FLOOR TO GRADE DIFFERENCE IS 5'-11" (1800mm) OR GREATER AS PER O.B.C. 9.8.8.2.
-VERTICAL END RAILING ANCHORED TO CORNER DOUBLE STUDS USING 3 ROWS OF 3/8"Ø MIN. ANCHOR BOLTS EQUALLY SPACED WITH 3" MIN. EMBEDMENT TO STUDS.
-PROVIDE SAME ANCHOR BOLTS @ 36" O.C. FOR BASE PLATE CONNECTION.

37 -LINEN CLOSET 4 SHELVES MIN. 1'-2" (350mm) DEEP

38 -WASHROOMS TO BE MECHANICALLY VENTED TO PROVIDE AT LEAST ONE AIR CHANGE PER HOUR, O.B.C.- 9.32.1.3.(3)

39 -CAPPED DRYER VENT

40 -1"X2" (19mmX38mm) BOTH SIDES OF STEEL.

41 -WOOD FRAMING MEMBERS SUPPORTED ON CONCRETE IN CONTACT WITH GROUND OR FILL SHALL BE PRESSURE TREATED OR SEPARATED FROM CONCRETE W/ 6 mil POLYETHYLENE.

42 -PRECAST CONC. STEP
-2 RISERS MAXIMUM PERMITTED TO BE LAID ON GROUND

44 SMOKE ALARM, O.B.C.- 9.10.19.
-PROVIDE 1 ON EACH FLOOR INCLUDING BASEMENTS
-PROVIDE 1 IN EACH BEDROOM
-PROVIDE 1 IN EACH HALLWAY SERVICING BEDROOMS
- INSTALLED AT OR NEAR CEILING
-ALARMS TO BE CONNECTED IN CIRCUIT AND INTERCONNECTED SO ALL ALARMS WILL BE ACTIVATED IF ANY ONE OF THEM SOUNDS AND HAVE A VISUAL SIGNALLING COMPONENT
-ALARMS MUST BE HARDWIRED AND HAVE AN ALTERNATE POWER SOURCE THAT CAN POWER ALARM FOR 7 DAYS, FOLLOWED BY 4 MINUTES OF ALARM

45 CARBON MONOXIDE ALARM (CMA), O.B.C.- 9.33.4.
-WHERE THERE IS A FUEL BURNING APPLIANCE A CMA SHALL BE PROVIDED ADJACENT TO EACH SLEEPING AREA.
-CMA TO BE WIRED IN CIRCUIT TO SOUND SMOKE ALARMS WHEN ACTIVATED.

46 -MAIN DOOR TO BE OPERABLE FROM INSIDE W/OUT KEY
-PROVIDE A VIEWER WITH A VIEWING ANGLE OF NOT LESS THAN 160 DEG. UNLESS GLAZING IS PROVIDED IN DOOR OR A SIDELIGHT IS PRESENT.
-R4 (RSI 0.70) WHERE A STORM DOOR IS NOT PROVIDED

47 -GARAGE MAN DOORS TO BE GAS PROOFED WITH SELF CLOSER, WEATHERSTRIPPING, THRESHOLD & DEAD BOLT PER O.B.C. 9.10.13.15.
-R4 (RSI 0.70)

48 -TRAVEL FROM A FLOOR LEVEL TO AN EXIT OR EGRESS DOOR SHALL BE LIMITED TO ONE FLOOR EXCEPT;
1) WHERE THAT FLOOR LEVEL HAS ACCESS TO A BALCONY
OR
2) WHERE THAT FLOOR LEVEL HAS A WINDOW PROVIDING AN UNOBSTRUCTED OPENING OF NOT LESS THAN 3'-3" (1000mm) IN HEIGHT AND 21 5/8" (550mm) IN WIDTH; SUCH WINDOW SHALL BE LOCATED SO THAT THE SILL IS NOT MORE THAN 3'-3" (1000mm) ABOVE FLOOR AND 23'-0" (7.0m) ABOVE ADJACENT GROUND LEVEL.

49 **EXTERIOR COLUMN W/ MASONRY PIER:**
-MIN. 6"X6" (140mm X 140mm) WOOD POST ANCHORED TO PORCH SLAB W/ METAL SADDLE.
-TOP PORTION OF POST CLAD W/ DECOR. SURROUND PER ELEVATION DRAWINGS.
-14" X 14" MASONRY VENEER SURROUND W/ PRECAST CONCRETE CAP.
-REFER TO ELEVATION DRAWINGS FOR HEIGHT OF CAP.
-SURROUND TO BE TIED W/ METAL TIES @ 16" (400mm) O.C. VERT. INSTALLED PER O.B.C. 9.20.9.4.
-3/4" AIR SPACE AROUND POST.
OR
-MIN. 6"X6" (140mm X 140mm) WOOD POST CLAD W/ DECOR. SURROUND (PER ELEVATION DRAWINGS) ANCHORED TO CONC. CAP W/ METAL SADDLE.
-14" X 14" MASONRY PIER TO BE CONSTRUCTED SOLID W/ PRECAST CONCRETE CAP.
-REFER TO ELEVATION DRAWINGS FOR HEIGHT OF CAP.
NOTE: DECORATIVE STRUCTURAL COLUMNS MAY REPLACE 6" X 6" POST PROVIDED THAT THEY ARE IN CONFORMANCE WITH O.B.C. 9.17.4.

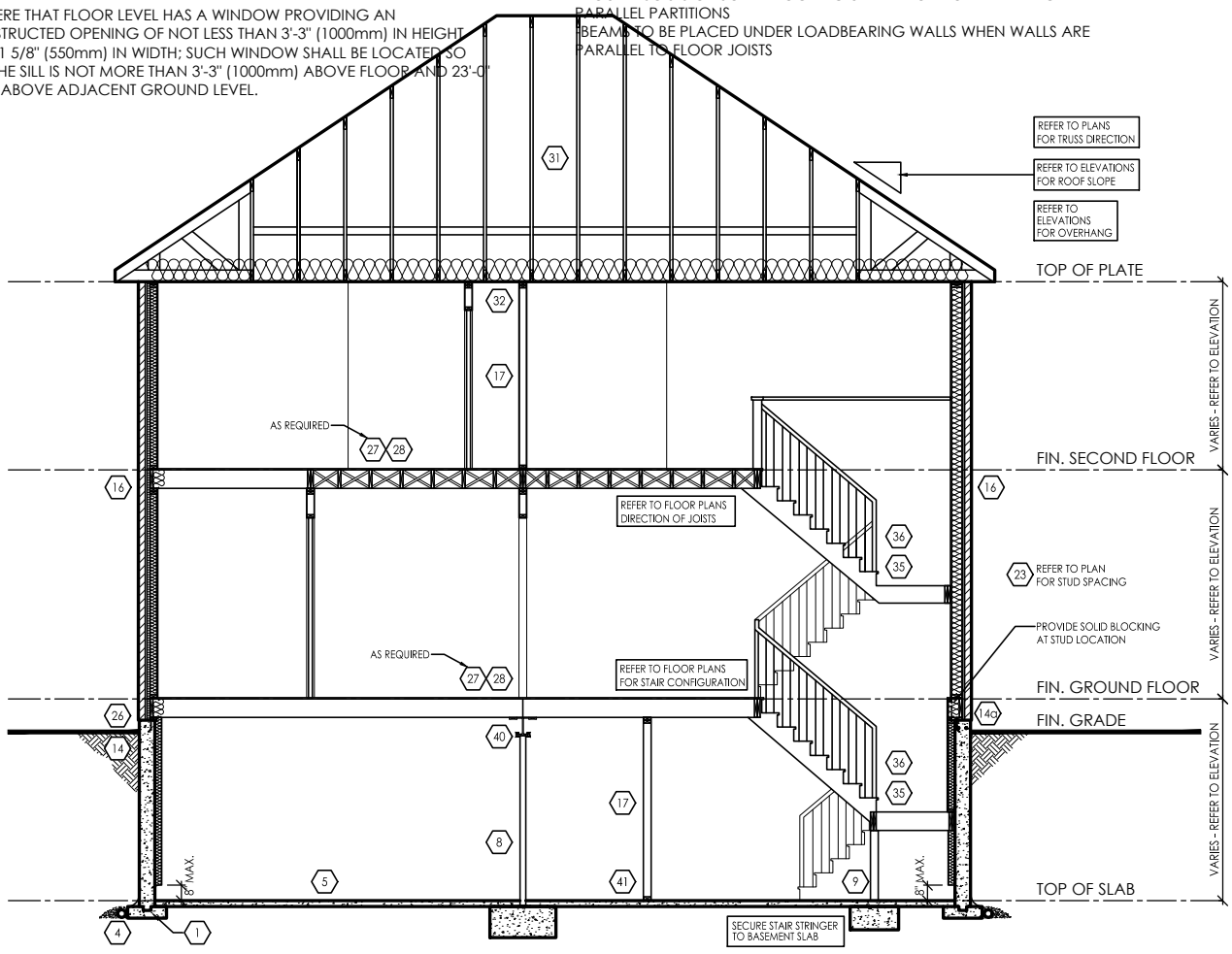
49a **EXTERIOR COLUMN:**
-MIN. 6"X6" (140mm X 140mm) WOOD POST CLAD W/ DECOR. SURROUND (PER ELEVATION DRAWINGS) ANCHORED TO PORCH SLAB W/ METAL SADDLE
NOTE: DECORATIVE STRUCTURAL COLUMNS MAY REPLACE 6" X 6" ABOVE PROVIDED THAT THEY ARE IN ACCORDANCE WITH O.B.C. 9.17.4.

50 **COLD CELLARS:**
FOR COLD CELLARS PROVIDE THE FOLLOWING:
-VENTING AREA TO BE EQUIVALENT TO 0.2% OF COLD CELLAR AREA.
-COVER VENT W/ BUG SCREEN
-WALL MOUNTED LIGHT FIXTURE
-L1+L7 FOR DOOR OPENING
-2'-8" X 6'-8" EXTERIOR TYPE DOOR (MIN.R-4 RSI 0.7)
-INSULATE FULL HEIGHT OF INTERIOR BASEMENT WALL W/ MIN. R12 (RSI 2.11)

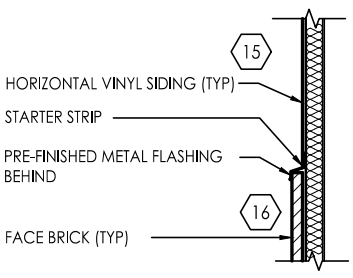
51 **STUD WALL REINFORCEMENT:**
O.B.C. 9.5.2.3.
-WALL STUDS ADJACENT TO WATER CLOSETS & SHOWER BATH TUBS IN MAIN BATHROOM ARE TO BE REINFORCED TO PERMIT THE FUTURE INSTALLATION OF GRAB BARS AS PER O.B.C. 3.8.3.8.(3)(a)&(c) & 3.8.3.13.(2)(f) & 3.8.3.13.(4)(c)
-GRAB BARS TO BE INSTALLED AS PER O.B.C. 9.8.7.7.(2)

FRAME CONSTRUCTION:
-ALL FRAMING LUMBER TO BE No.1 AND No. 2 SPF UNLESS NOTED OTHERWISE.
-ROOF LOADING IS BASED ON 1.5kPa SPECIFIED COMPOSITE SNOW AND RAIN LOADS.
-JOISTS TO HAVE MIN. 1-1/2" (38mm) END BEARING
-BEAMS TO HAVE MIN. 3-1/2" (89mm) END BEARING
-DOUBLE STUDS @ OPENINGS
-DOUBLE HEADER JOISTS AROUND FLOOR OPENINGS WHEN THEY ARE BETWEEN 3'-11" (1200mm) AND 10'-6" (3200mm)
-DOUBLE TRIMMER JOISTS WHEN HEADER JOIST LENGTH IS BETWEEN 2'-7" (800mm) AND 6'-7" (2000mm)
-DOUBLE JOISTS OR SOLID BLOCKING UNDER NON-LOAD BEARING PARALLEL PARTITIONS
-BEAMS TO BE PLACED UNDER LOADBEARING WALLS WHEN WALLS ARE PARALLEL TO FLOOR JOISTS
-BEAMS MAY BE A MAX. 24" (600mm) FROM LOADBEARING WALLS WHEN WALLS ARE PERPENDICULAR TO FLOOR JOISTS
-APPROVED METAL HANGERS TO BE USED FOR JOISTS AND BEAMS WHEN THEY FRAME INTO SIDES OF BEAMS, TRIMMERS AND HEADERS
-FLOOR JOISTS SUPPORTING ROOF LOADS SHALL NOT BE CANTILEVERED MORE THAN 15 3/4" (400mm) BEYOND SUPPORTS FOR 2" X 8" (38mm X 184mm)
-FLOOR JOISTS SUPPORTING ROOF LOADS SHALL NOT BE CANTILEVERED MORE THAN 23 5/8" (600mm) BEYOND SUPPORTS FOR 2" X 10" (38mm X 235mm) OR LARGER.

WINDOWS:
-WINDOWS TO BE SEALED TO THE AIR & VAPOR BARRIER
-WINDOWS THAT SEPARATE HEATED SPACE FROM UNHEATED SPACE SHALL HAVE AN OVERALL COEFFICIENT OF HEAT TRANSFER OF 1.6 W/(m2.K) OR
-AN ENERGY RATING OF NOT LESS THAN 25 FOR WINDOWS
-BASEMENT WINDOWS WITH LOAD BEARING STRUCTURAL FRAME SHALL BE DOUBLE GLAZED WITH LOW-E COATING
-SKYLIGHTS SHALL HAVE AN OVERALL COEFFICIENT OF HEAT TRANSFER OF 2.8 W/(m2.K)
-FOR GROSS GLAZED AREAS LESS THAN AND EQUAL TO 17%



TYPICAL CROSS SECTION - 2 STOREY (BRICK)
N.T.S.



TYPICAL FLASHING DETAIL
N.T.S.

◆ *CLIENT SPECIFIC REVISIONS*

THESE DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RN DESIGN LTD

SCHEDULES

DOORS (46)(47)

A	865x2030x45 (2'10"x6'8"x1-3/4")
B	815x2030x35 (2'8"x6'8"x1-3/8")
C	760x2030x35 (2'6"x6'8"x1-3/8")
D	710x2030x35 (2'4"x6'8"x1-3/8")
E	460x2030x35 (1'6"x6'8"x1-3/8")
F	610x2030x35 (2'0"x6'8"x1-3/8")
G	OVER SIZED EXTERIOR DOOR

STEEL BEAMS

ST1	W 6 X 15
ST2	W 6 X 20
ST3	W 8 X 18
ST4	W 8 X 21
ST5	W 8 X 24

WOOD BEAMS

WD1	3/ 2" X 8" SPR	WD10	2/ 1 3/4" X7 1/4" (2.0E) LVL
WD2	4/ 2" X 8" SPR	WD11	3/ 1 3/4" X7 1/4" (2.0E) LVL
WD3	5/ 2" X 8" SPR	WD12	2/ 1 3/4" X9 1/2" (2.0E) LVL
WD4	3/ 2" X 10" SPR	WD13	3/ 1 3/4" X9 1/2" (2.0E) LVL
WD5	4/ 2" X 10" SPR	WD14	2/ 1 3/4" X11 7/8" (2.0E) LVL
WD6	5/ 2" X 10" SPR	WD15	3/ 1 3/4" X11 7/8" (2.0E) LVL
WD7	3/ 2" X 12" SPR	WD16	2/ 1 3/4" X14" (2.0E) LVL
WD8	4/ 2" X 12" SPR	WD17	3/ 1 3/4" X14" (2.0E) LVL
WD9	5/ 2" X 12" SPR		

LINTELS

L1	2/ 2" X 8" SPR	L9	4" X 3-1/2" X 1/4" L	L14	5-7/8" X 3-1/2" X 1/2" L
L3	2/ 2" X 10" SPR	L10	4-7/8" X 3-1/2" X 5/16" L	L15	5-7/8" X 4" X 1/2" L
L5	2/ 2" X 12" SPR	L11	4-7/8" X 3-1/2" X 3/8" L	L16	7-1/8" X 4" X 3/8" L
L7	3-1/2" X 3-1/2" X 1/4" L	L12	4-7/8" X 3-1/2" X 1/2" L	L17	7-1/8" X 4" X 1/2" L
L8	4-7/8" X 3-1/2" X 1/4" L	L13	5-7/8" X 3-1/2" X 3/8" L		

PLAN/ELEVATION LEGEND

SMOKE ALARM (44)	
WATERPROOF DUPLEX OUTLET	
VENTS AND INTAKES	
HOSE BIB	
EXHAUST FAN (38)	
COLD CELLAR VENT (50)	
STOVE VENT	
FIRE PLACE VENT	
DRYER VENT	
CARBON MONOXIDE ALARM (CMA) (45)	
DJ	DOUBLE JOIST
PT	PRESSURE TREATED LUMBER
GT	GIRDER TRUSS
AFF	ABOVE FINISHED FLOOR
BBFM	BEAM BY FLOOR MANUF
(FL)	FLUSH
(DR)	DROPPED
'DO'	REPEAT SAME JOIST SIZE
U/S	UNDER SIDE
FG	FIXED GLAZING
GB	GLASS BLOCK
BG	BLACK GLASS
FLOOR DRAIN	
SOLID BEARING (TO BE SAME WIDTH AS SUPPORTED MEMBER)	
POINT LOAD	
FLAT ARCH	
2 STORY WALL	
EXT. LIGHT FIXTURE (WALL MOUNTED)	
HYDRO METER	
GAS METER	

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I, ARTHUR PUI YAN LAW DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD**,UNDER DIVISION C,PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.
QUALIFIED DESIGNER BCIN: 41230
FIRM BCIN: 26995
DATE: Sept. 30, 2016
SIGNATURE:

client: Zancor/ Pristine/ Fernbrook
location: Innisfil
project: Belle Aire Shores
marketing name

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