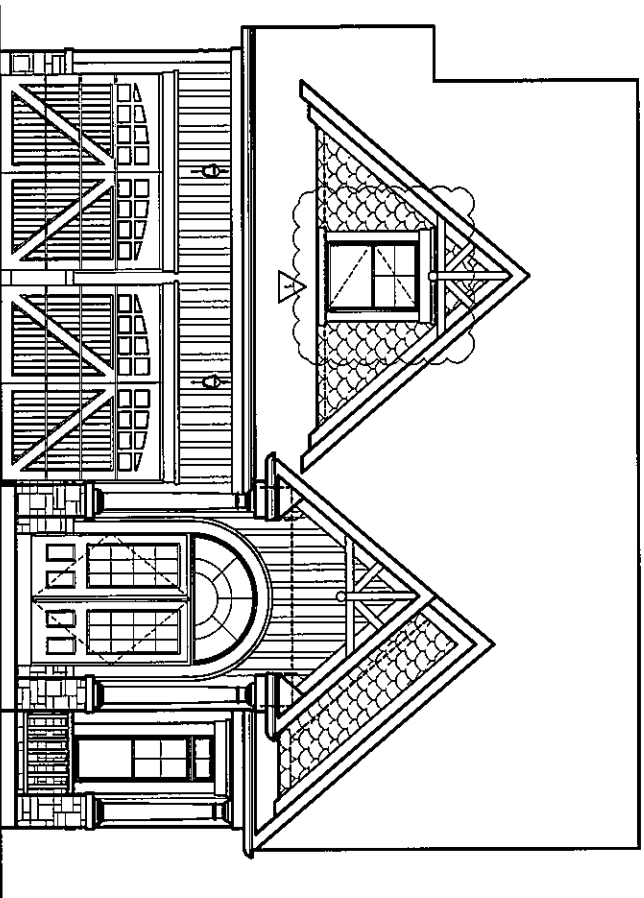
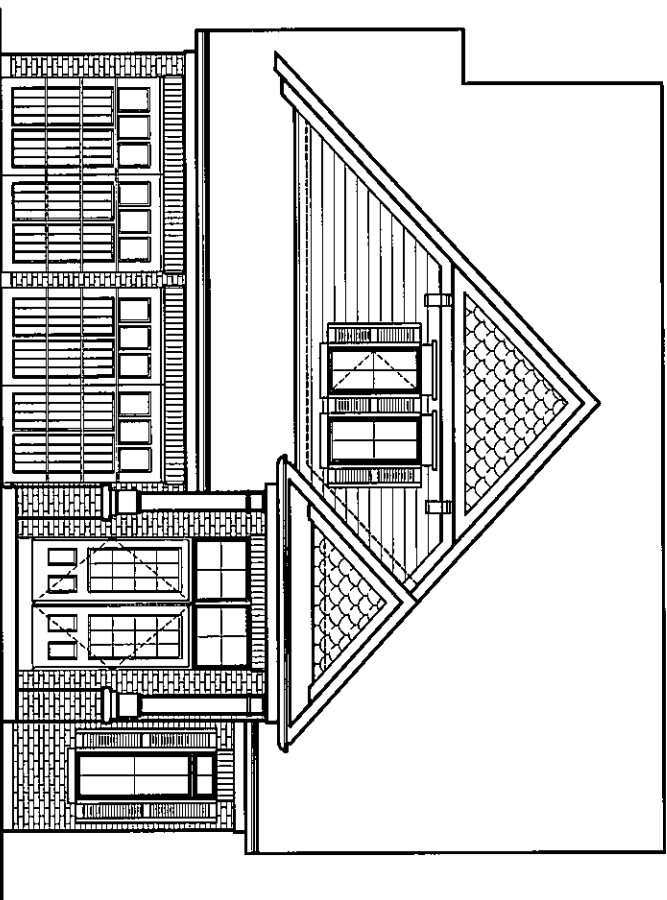




FRONT ELEVATION 'A'



FRONT ELEVATION 'B'

OBC 2012

DRAWING LIST:

40-1 (STANLEY)

- T1 TITLE SHEET
- A1 BASEMENT FLOOR ELEV. 'A'
- A2 GROUND FLOOR ELEV. 'A'
- A3 PARTIAL GROUND FLOOR ELEV. 'A'
- A4 SECOND FLOOR ELEV. 'A'
- A5 BASEMENT FLOOR ELEV. 'B'
- A6 GROUND FLOOR ELEV. 'B'
- A7 PARTIAL GROUND FLOOR ELEV. 'B'
- A8 SECOND FLOOR ELEV. 'B'
- A9 FRONT ELEVATION 'A'
- A10 RIGHT SIDE ELEVATION 'A'
- A11 REAR ELEVATION 'A'
- A12 LEFT SIDE ELEVATION 'A'
- A13 FRONT ELEVATION 'B'
- A14 RIGHT SIDE ELEVATION 'B'
- A15 REAR ELEVATION 'B'
- A16 LEFT SIDE ELEVATION 'B'
- D1 CONSTRUCTION SHEET
- D2 CONSTRUCTION SHEET
- D3 CONSTRUCTION SHEET
- D4 TYPICAL SECTION

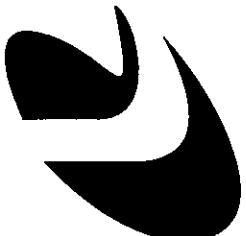
GROSS GLAZING AREA 'A'

TOTAL PERIPHERAL WALL AREA	2817.05 SF	261.70 m²
FRONT GLAZING AREA	18,92 SF	1.76 m²
LEFT SIDE GLAZING AREA	13,89 SF	1.29 m²
RIGHT SIDE GLAZING AREA	38,44 SF	3.57 m²
REAR GLAZING AREA	74,44 SF	6.92 m²
TOTAL GLAZING AREA	145,69 SF	13.53 m²
TOTAL GLAZING PERCENTAGE	5.17 %	

GROSS GLAZING AREA 'B'

TOTAL PERIPHERAL WALL AREA	2817.05 SF	261.70 m²
FRONT GLAZING AREA	24,03 SF	2.23 m²
LEFT SIDE GLAZING AREA	13,89 SF	1.29 m²
RIGHT SIDE GLAZING AREA	38,44 SF	3.57 m²
REAR GLAZING AREA	76,75 SF	7.13 m²
TOTAL GLAZING AREA	153,11 SF	14.22 m²
TOTAL GLAZING PERCENTAGE	5.44 %	

ESQUIRE HOMES
NORTHGLEN - PH. 2
CLARINGTON, ONTARIO



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SUITE 203
VAUGHAN, ON
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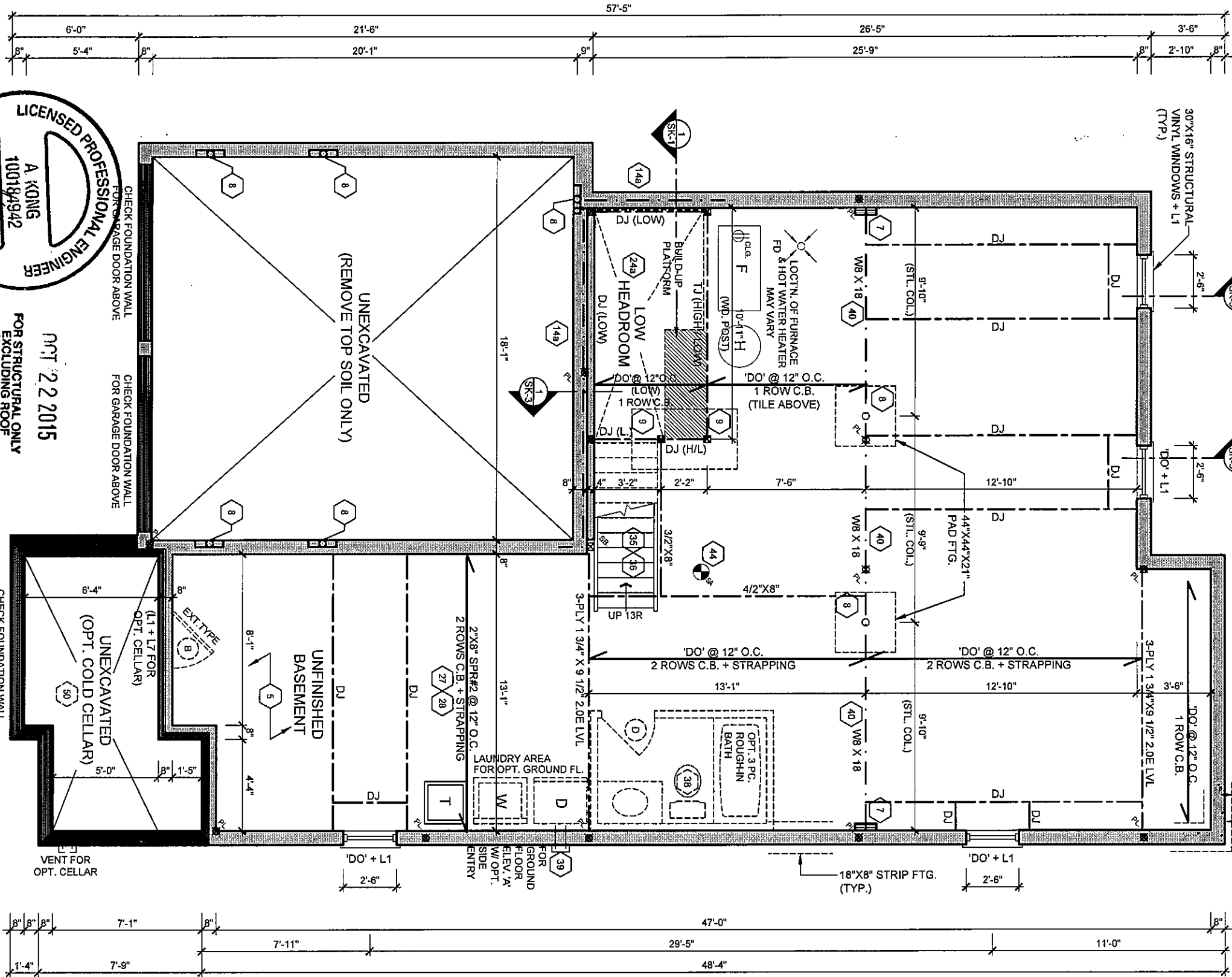
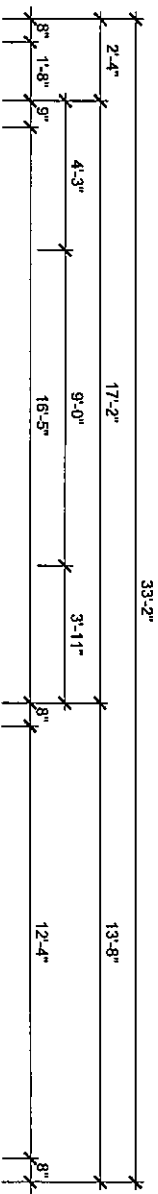
CONTACT PERSON: NELSON CUNHA

No.	REVISION COMMENTS:	DATE	DWN	CHK	No.	REVISION COMMENTS:	DATE	DWN	CHK	SCALE
1.	UPDATED TO OBC 2012 - 2015 ENACTMENT	OCT. 19/15	--	NC						AS NOTED
										PROJECT No. 14093
										T1

THESE DRAWINGS ARE NOT TO BE SCALED. PRIOR TO COMMENCEMENT OF ANY WORK, ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RN DESIGN LTTD.
REVISED: JANUARY 08, 2015 - RN STAFF IN ACCORDANCE TO SB-12 COMPLIANCE PACKAGE J

I, NELSON CUNHA DECLARE THAT I HAVE REVIEWED AND TAKE DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF RN DESIGN LIMITED. I AM QUALIFIED AND THE FIRM IS REGISTERED, IN THE APPROPRIATE CLASSES/CATEGORIES.

QUALIFIED DESIGNER BCIN: 21032 SIGNATURE:
FIRM BCIN: 26995
DATE: OCTOBER 19, 2015



BASEMENT FLOOR ELEV. 'A'

NOTE:
SPACE ALL FLOOR JOISTS @ 12" O.C.
UNDER ALL CERAMIC TILED AREAS

It is the builder's complete responsibility to ensure that all plans submitted for approval fully comply with the Architectural Guidelines and all applicable regulations and requirements including zoning provisions and any provisions in the subdivision agreement. The Control Architect is not responsible in any way for examining or approving site (lotting) plans or working drawings with respect to any zoning or building code or permit matter or that any house can be properly built or located on its lot.

This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the Municipality of CLARINGTON.



FIN design
Imagine a better design
Tel: (905) 738-5449
Fax: (905) 738-5449

MODEL: 40-1 (STANLEY)

CLIENT: ESQUIRE HOMES
NORTHGLEN - PHASE 2
CLARINGTON, ONTARIO

No.	ISSUED OR REVISION COMMENTS	DATE	DWN	CHK
1.	UPDATED TO OBC 2012 - 2015 ENACTMENT	OCT. 19/15	AL	NC

QUALIFIED DESIGNER BCIN: 21032
FIRM BCIN: 26995
DATE: OCTOBER 19, 2015
SIGNATURE:

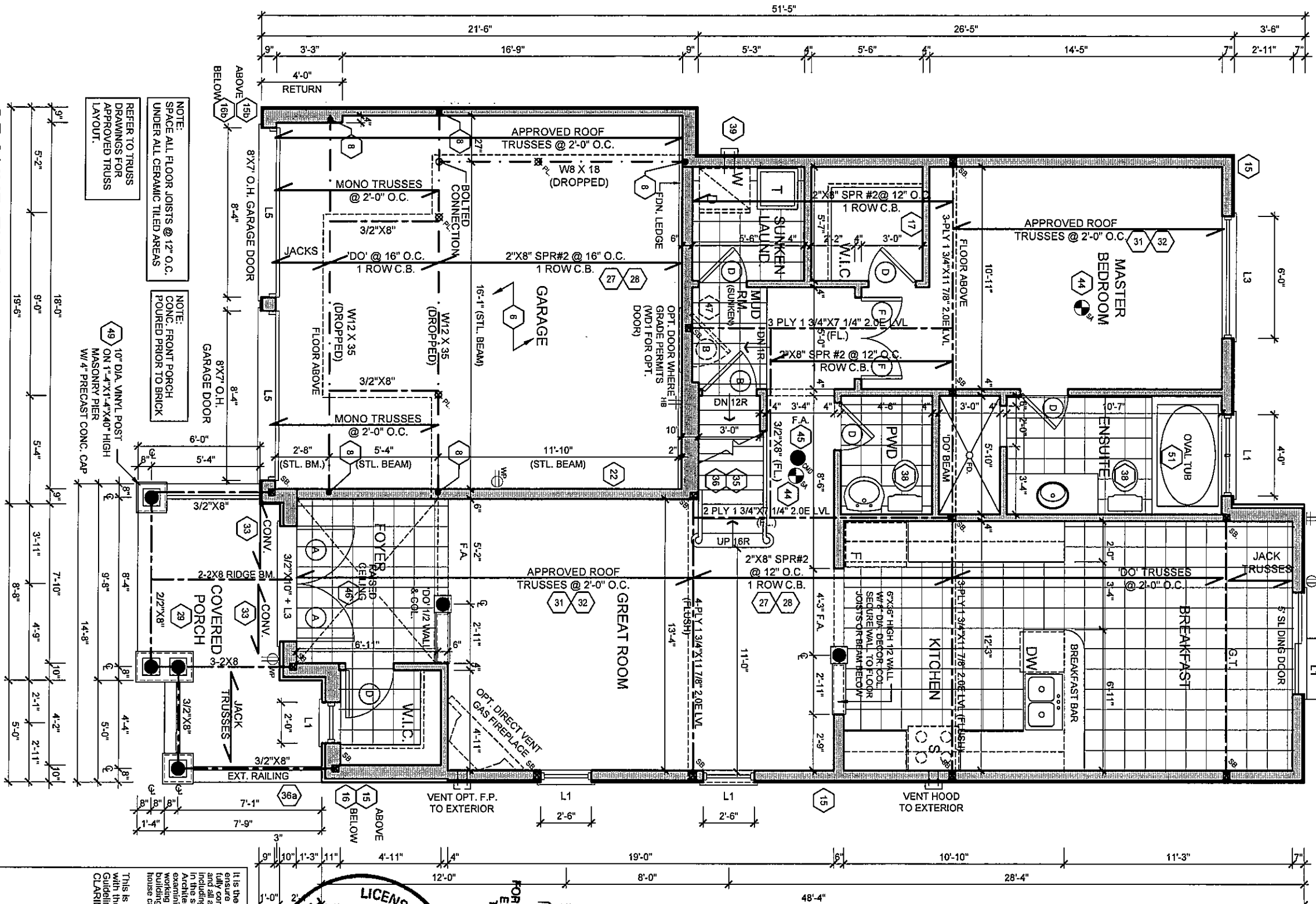
SCALE: 3/16" = 1'0"

PROJECT NUMBER: 14093

PAGE: A1

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THESE DRAWINGS ARE THE PROPERTY OF FIN DESIGN LTD. AND ARE NOT TO BE REPRODUCED OR USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF FIN DESIGN LTD.
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REVISED: JANUARY 08, 2015 - FIN STAFF IN ACCORDANCE TO SB-12 COMPLIANCE PACKAGE J
CLASSIFICATION: CATEGORIES.

I, NELSON CUNHA DECLARE THAT I HAVE REVIEWED AND TAKE DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF FIN DESIGN LIMITED. I AM QUALIFIED AND THE SIGN IS REGISTERED IN THE APPROPRIATE CATEGORIES.



A circular seal for a Licensed Professional Engineer in the Province of Ontario. The outer ring contains the text "PROVINCE OF ONTARIO" on the left and "LICENSED PROFESSIONAL ENGINEER" on the right. In the center, the name "A. KONG" and the license number "100184942" are printed. A stylized signature is written over the left side of the seal. The seal is stamped over a technical drawing of a mechanical part, with dimensions like "0", 2" and "12'-0"

OCT 22 2015
FOR STRUCTURAL ONLY
EXCLUDING ROOF
TRUSS DESIGNS

GROUND FLOOR ELEV. 'A'

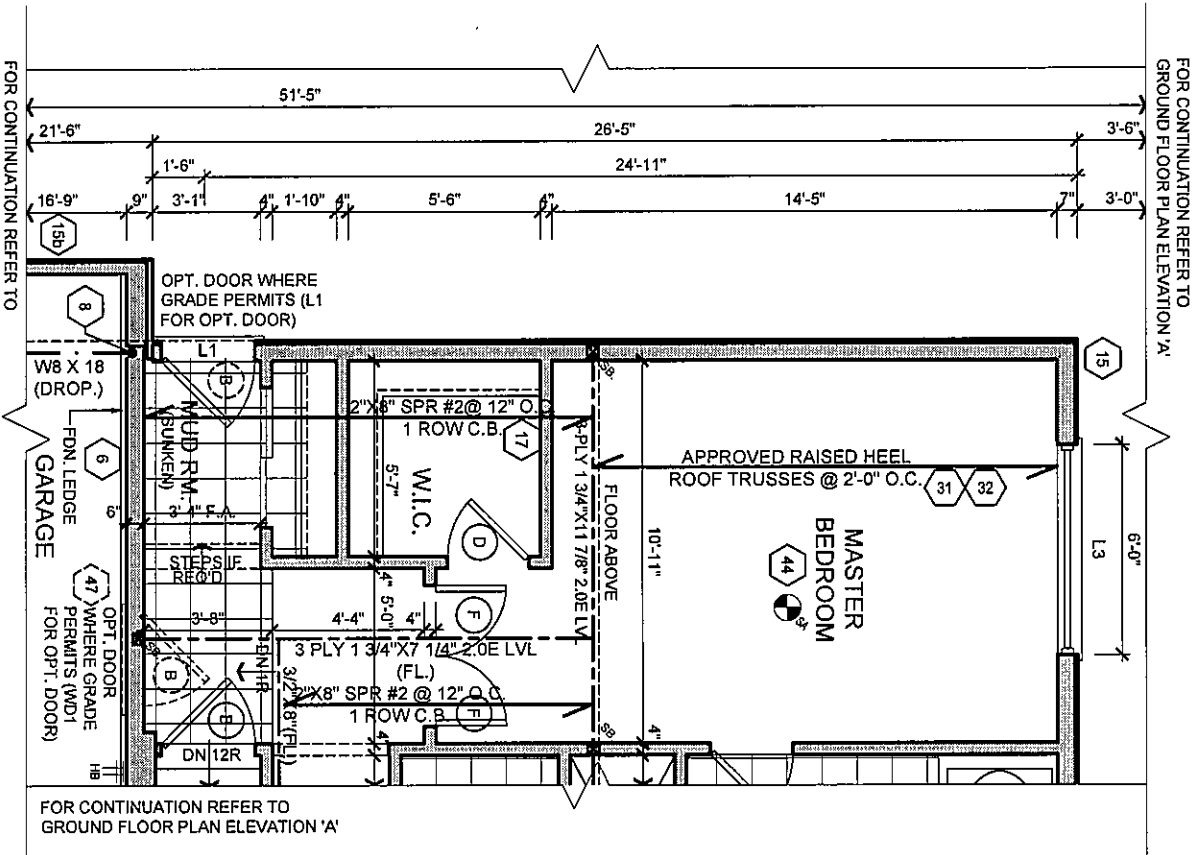
FAX: (905) 738-5449

THESE DRAWINGS ARE NOT TO BE SCALED. PRIOR TO COMMENCEMENT OF ANY WORK, ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RIN DESIGN LTD.

I, NELSON CUNHA, DECLARE THAT I HAVE REVIEWED AND TAKE DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF AN DESIGN II UNDER DIVISION C, PART 3, SUBSECTION 3.2.4, OF THE BUILDING CODE. I AM QUALIFIED, AND THE FIRM IS REGISTERED, IN THE APPROPRIATE CLASSIFICATION CATEGORIES.

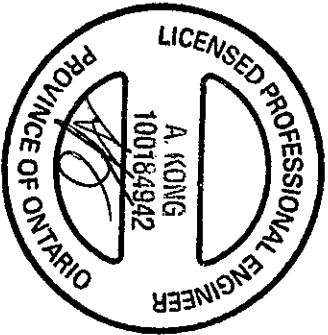
QUALIFIED DESIGNER BCIN: 21032	SIGNATURE
FIRM BCIN: 26995	
DATE: OCTOBER 19, 2015	

A2



PARTIAL GROUND
FLOOR ELEV. 'A'
W/OPT. SIDE ENTRY

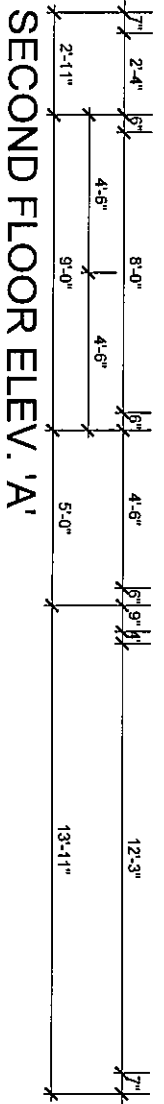
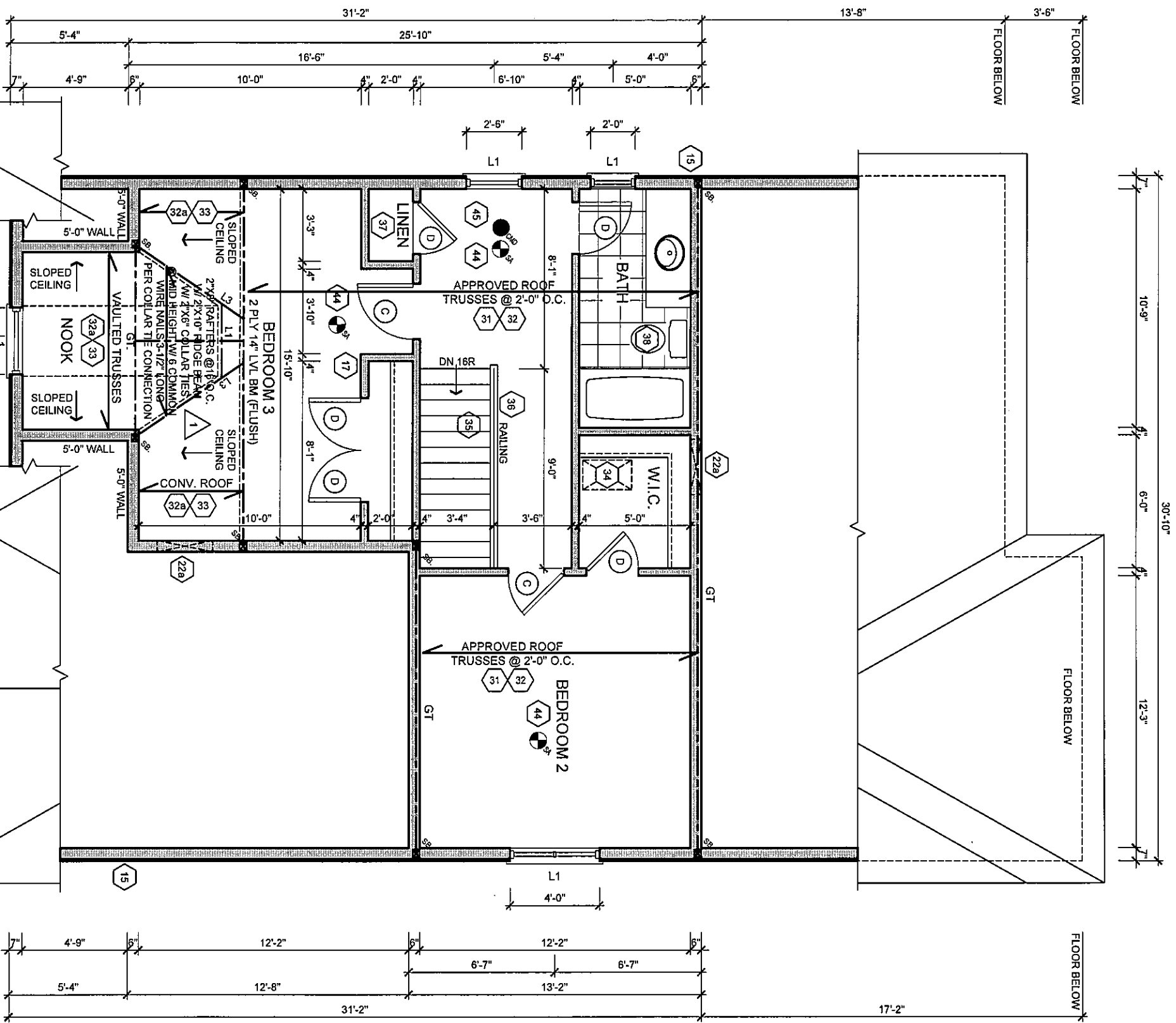
OCT 22 2015
FOR STRUCTURAL ONLY
EXCLUDING ROOF
TRUSS DESIGNS



It is the builder's complete responsibility to ensure that all plans submitted for approval fully comply with the Architectural Guidelines and all applicable regulations and requirements including provisions and requirements in the submitted drawings and any other documents. The Architect is not responsible in any way for examining or approving site (lotting) plans or building code or permit matter or that any house can be properly built or located on its lot.

This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the Municipality of CLARINGTON.

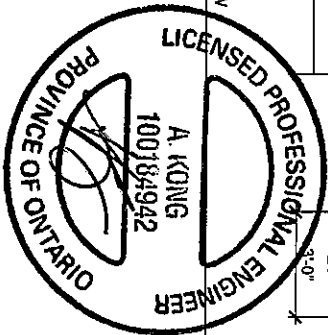
 FN design Imagine • Inspire • Create TEL: (905) 738-3177 FAX: (905) 738-5449	MODEL	40-1 (STANLEY)		No. ISSUED OR REVISION COMMENTS	DATE	DWN	CHK	SCALE
	CLIENT	ESQUIRE HOMES NORTHGLEN - PHASE 2 CLARINGTON, ONTARIO		1. UPDATED TO OBC 2012 - 2015 ENACTMENT	OCT. 19/15	AL	NC	3/16" = 1'0"
THESE DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE. NO PART OF THESE DRAWINGS ARE TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF FN DESIGN LTD. MUST BE REPORTED DIRECTLY TO FN DESIGN LTD. REVISED: JANUARY 28, 2015 - FN STAFF IN ACCORDANCE TO SB-12 COMPLIANCE PACKAGE J	I, NELSON CONA DECLARE THAT I HAVE REVIEWED AND TAKE DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF FN DESIGN LIMITED. I AM QUALIFIED AND THE FIRM IS REGISTERED, IN THE APPROPRIATE CLASSIFICATION CATEGORIES.		QUALIFIED DESIGNER BCIN: 21032 FIRM BCIN: 26995 DATE: OCTOBER 19, 2015		SIGNATURE:		PAGE	
	PROJECT NUMBER 14093		A3					



REFER TO TRUSS
DRAWINGS FOR
APPROVED ROOF
LAYOUT.

NOTE:
CONC. FRONT PORCH
POURED PRIOR TO BRICK
LAYOUT.

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

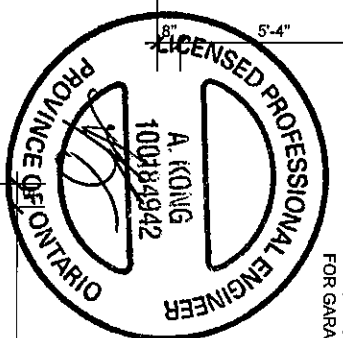
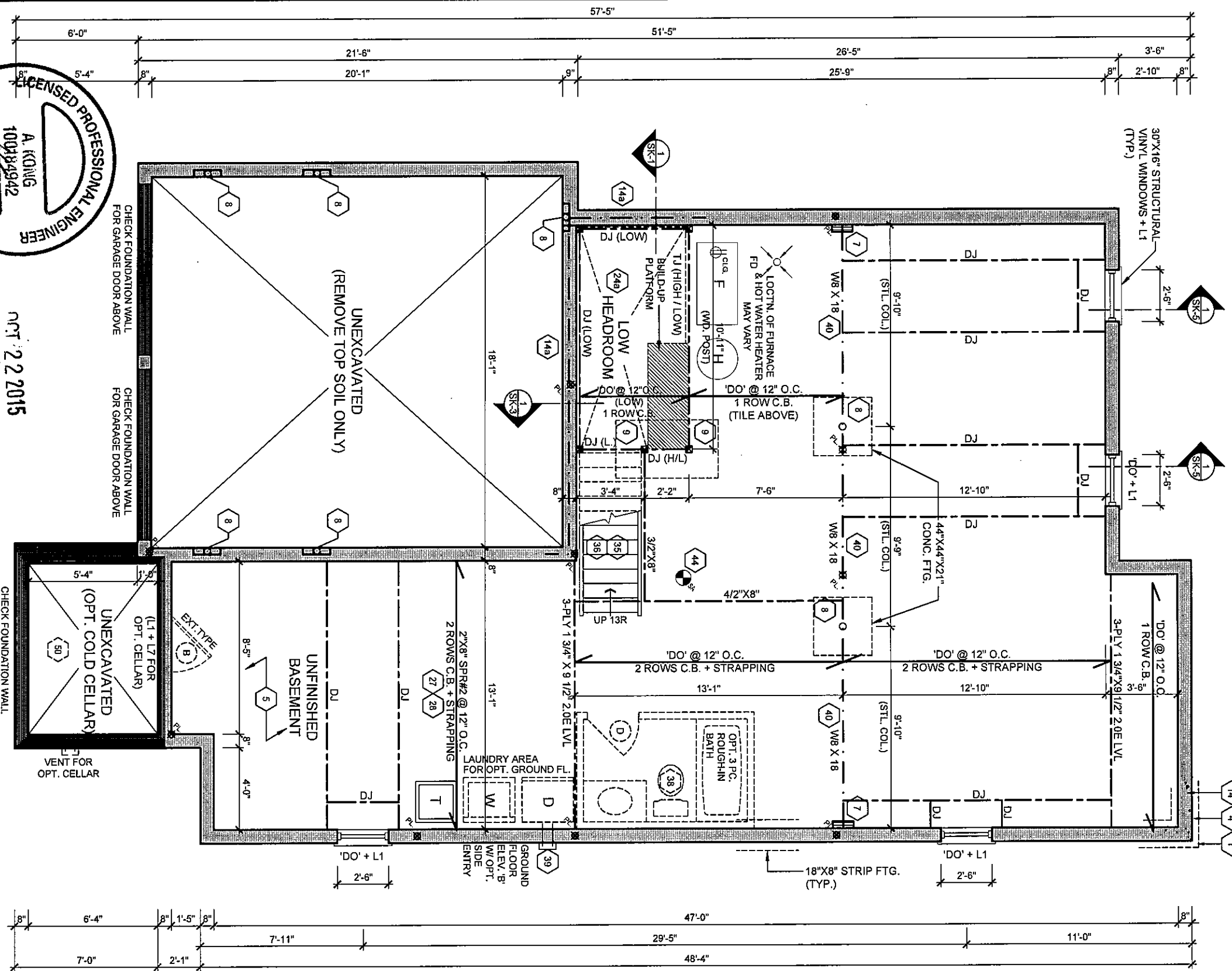
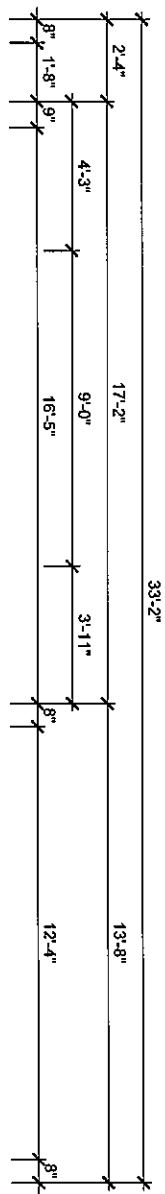


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CLIENT ESQUIRE HOMES NORTHGLEN - PHASE 2 CLARINGTON, ONTARIO		No. ISSUED OR REVISION COMMENTS 1. UPDATED TO OBC 2012 - 2015 ENACTMENT	
		DATE OCT. 19/15	DWN AL
		CHK NC	SCALE 3/16" = 10"
		PROJECT NUMBER 14093	
		PAGE A4	
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It is the builder's complete responsibility to ensure that all plans submitted for approval comply with the applicable Ontario Building Code and all applicable regulations and provisions including zoning provisions and any provisions in the subdivision agreement. The Control Architect is not responsible in any way for examining or approving site (lotting) plans or working drawings with respect to any zoning or building code or permit matter or that any house can be properly built or located on its lot.

This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the Municipality of CLARINGTON.



BASEMENT FLOOR ELEV. 'B'

NOTE: SPACE ALL FLOOR JOISTS @ 12" O.C. UNDER ALL CERAMIC TILED AREAS

It is the builder's complete responsibility to ensure that all plans submitted for approval fully comply with the Architectural Guidelines and all applicable regulations and requirements including zoning provisions and any provisions in the subdivision agreement. The Control Architect is not responsible in any way for examining or approving site (lotting) plans or working drawings with respect to any zoning or building code or permit matter or that any house can be properly built or located on its lot.

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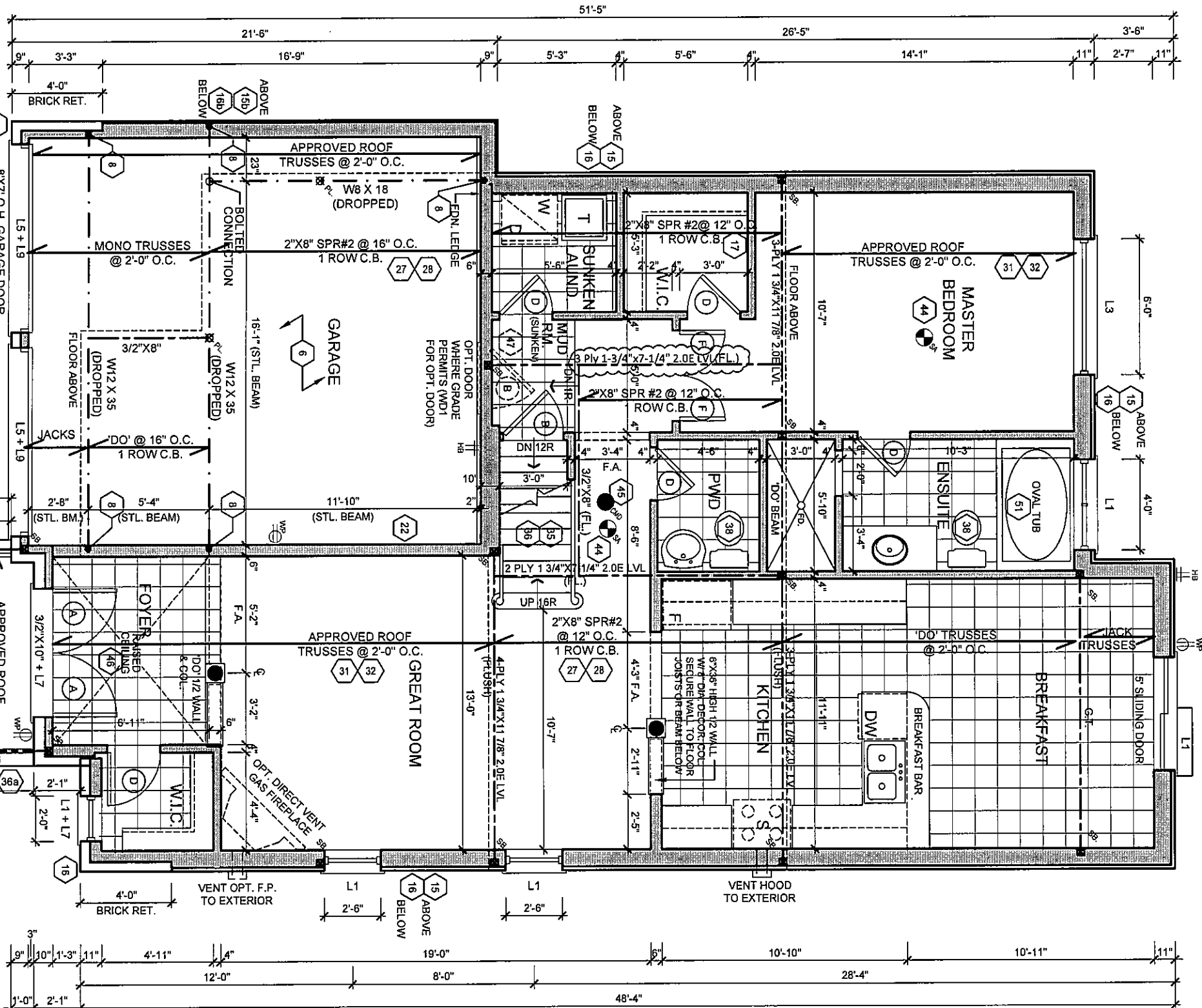
ESQUIRE HOMES
NORTHGLEN - PHASE 2
CLARINGTON, ONTARIO

MODEL	CLIENT	NO. ISSUED OR REVISION COMMENTS	DATE	DWN	CHK	SCALE
40-1 (STANLEY)		1. UPDATED TO OBC 2012 - 2015 ENACTMENT	OCT. 19/15	AL	NC	3/16" = 1'0"

DATE	SIGNATURE:	DATE	SIGNATURE:
OCTOBER 19, 2015			

PROJECT NUMBER
14093

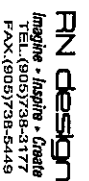
PAGE
A5



A circular professional seal for the Province of Ontario. The outer ring contains the text "PROVINCE OF ONTARIO" on the left and "LICENSED PROFESSIONAL ENGINEER" on the right. In the center, the name "A. KONG" is printed above the license number "100184942". The seal is divided into two halves by a vertical line, with a stylized "K" or similar symbol on the left half.

49 POST ON 1'-4"X1'-4"X48" H/1
MASONRY PIER

This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the Municipality of CLARKSON.



ESQUIRE HOMES
NORTHGLEN - PHASE 2
CLARINGTON, ONTARIO

MODEL	40-1 (STANLEY)		No. ISSUED OR REVISION COMMENTS		DATE	DWN	CHK	SCALE
CLIENT	1.	UPDATED TO OBC 2012 - 2015 ENACTMENT	OCT. 19/15	AL	NC	3/16" = 1'0"		
						PROJECT NUMBER		

THESE DRAWINGS ARE NOT TO BE SCALED.
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TO COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES
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REVISED: JANUARY 08, 2015 - RN STAFF IN ACCORDANCE TO SB-12 COMPLIANCE PACKAGE L

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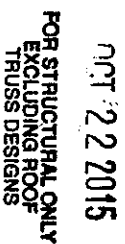
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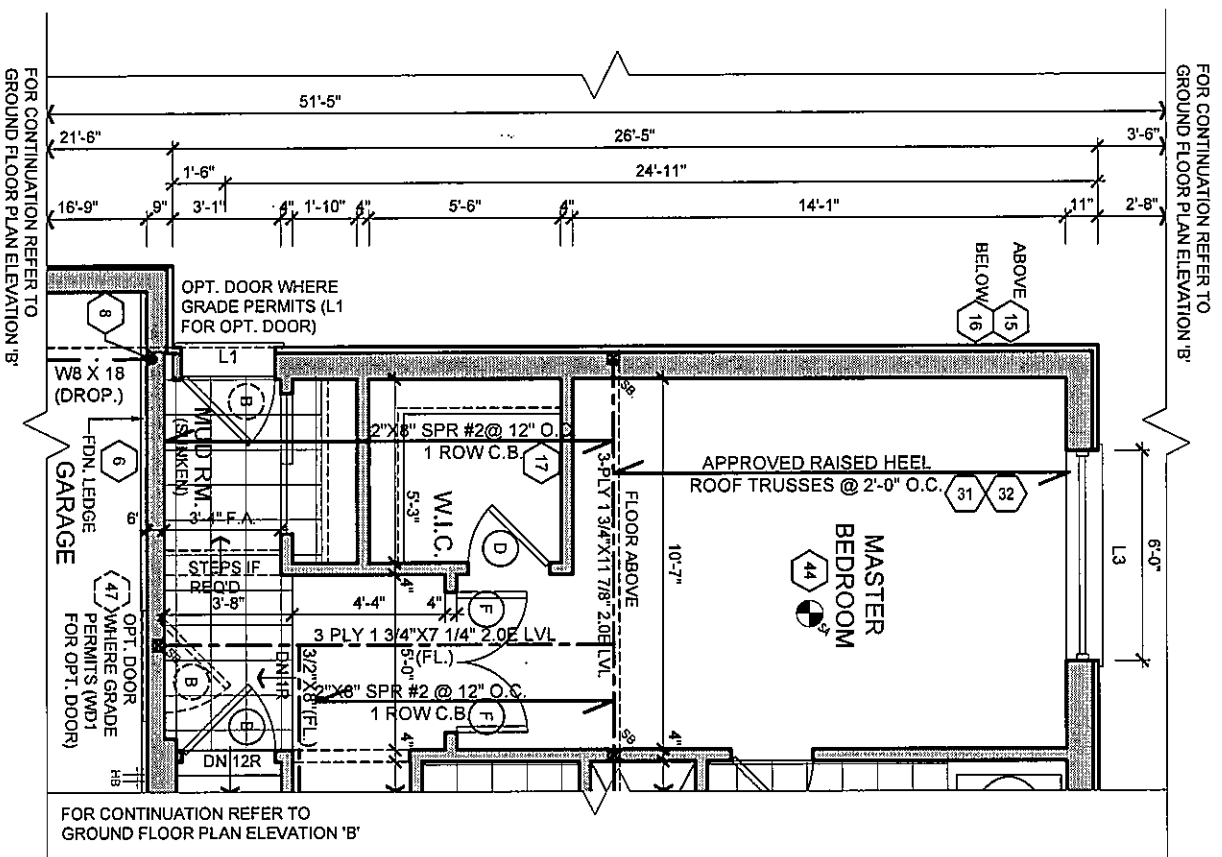
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A6

File:C:_RN_Standards\ACA 2016\temp\AcPublish_14348\14093-40-1-FINAL-STANLEY.dwg Plotted: Oct 19, 2015 By:Arthurl



PARTIAL GROUND
FLOOR ELEV. 'B'
W/ OPT. SIDE ENTRY



It is the builder's complete responsibility to ensure that all plans submitted for approval fully comply with the Architectural Guidelines and all applicable regulations and requirements including zoning provisions and any provisions in the subdivision agreement. The Control Architect is not responsible in any way for examining or approving site layout plans or working drawings with respect to any zoning or other applicable regulations. The Control House can be properly built or located on its lot.

This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the Municipality of CLAIRINGTON.



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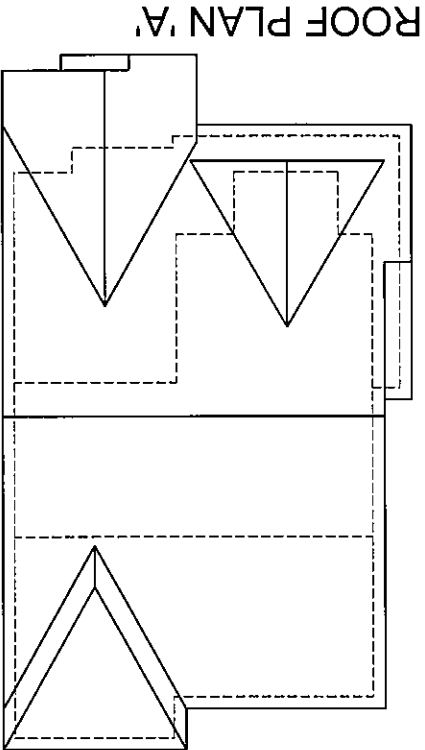
ESQUIRE HOMES
NORTHGLEN - PHASE 2
CLARINGTON, ONTARIO

I, NELSON CUNHA DECLARE THAT I HAVE REVIEWED AND TAKE DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF RN DESIGN LLC UNDER DIVISION C, PART 3, SUBSECTION 3.2.4. OF THE BUILDING CODE. I AM QUALIFIED, AND THE FIRM IS REGISTERED, IN THE APPROPRIATE CLASSIFICATION CATEGORIES.

QUALIFIED DESIGNER BCIN:	21032	SIGNATURE
FIRM BCIN:	26995	
DATE:	OCTOBER 19 2015	

MODEL	40-1 (STANLEY)				SCALE	3/16" = 1"0"
CLIENT	No.	ISSUED OR REVISION COMMENTS	DATE	DWN	CHK	PROJECT NUMBER 14093
	1.	UPDATED TO OBC 2012 - 2015 ENACTMENT	OCT. 19/15	AL	NC	
ESQUIRE HOMES NORTHGLEN - PHASE 2 CLARINGTON, ONTARIO					PAGE	A7

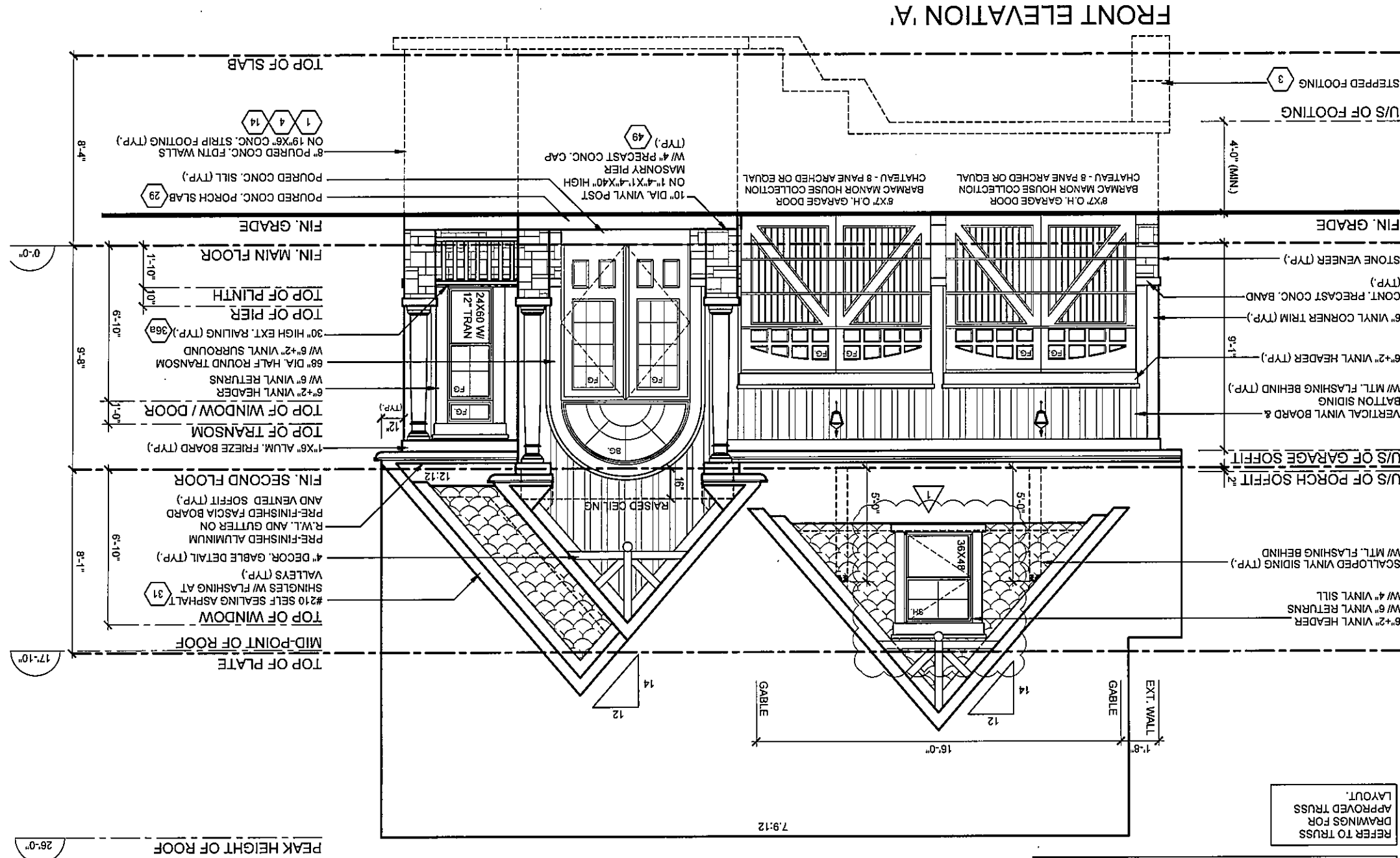
A7



ROOF PLAN 'A'

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'.

REFER TO TRUSS DRAWINGS FOR APPROVED TRUSS LAYOUT.



FRONT ELEVATION 'A'

This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the Municipality of CLARINGTON.

It is the builder's complete responsibility to fully comply with the applicable Building Code and all applicable regulations and requirements including zoning provisions and any provisions in the subdivision agreement. The Control Architect is not responsible in any way for examining or approving site (lotting) plans or building drawings with respect to any zoning or building code or permit matter. If any issues can be properly built or located on its lot.

MODEL	40-1 (STANLEY)	No. ISSUED OR REVISION COMMENTS	DATE	DWN	CHK	SCALE
CLIENT	ESQUIRE HOMES NORTHGLEN - PHASE 2 CLARINGTON, ONTARIO	1. UPDATED TO OBC 2012 - 2015 ENACTMENT	OCT. 19/15	AL	NC	3/16" = 1'0"
						PROJECT NUMBER 14093
						PAGE A9

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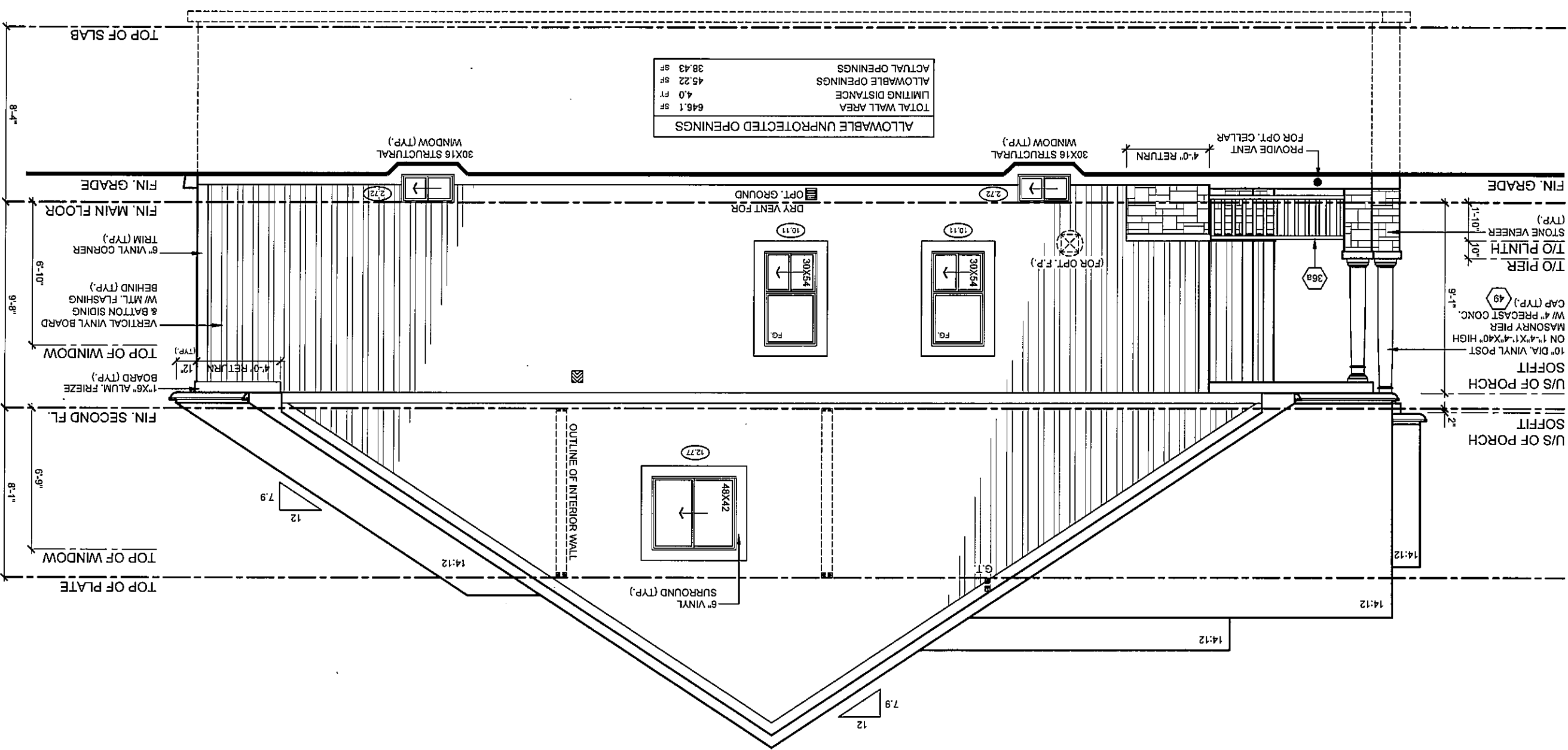
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THESE PLANS HAVE BEEN REVIEWED AND TAKE DESIGN UNDER DIVISION 3, SUBSECTION 2.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSIFICATION: THEORICAL.

QUALIFIED DESIGNER BCIN: 21032
FIRM BCIN: 26995
DATE: OCTOBER 19, 2015

SIGNATURE:

RIGHT SIDE ELEVATION 'A'



ALLOWABLE UNPROTECTED OPENINGS	646.1 SF
TOTAL WALL AREA	4.0 FT
LIMITING DISTANCE	45.22 SF
ALLOWABLE OPENINGS	38.43 SF
ACTUAL OPENINGS	

It is the builder's complete responsibility to ensure that all plans submitted for approval fully comply with the Architectural Guidelines and all applicable regulations and requirements in the subdivision agreement. The City of Clarington is not responsible in any way for examining or approving site (lotting) plans or building drawings with respect to any zoning or building code or permit matter or that any house can be properly built or located on its lot.

This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the Municipality of CLARINGTON.



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MODEL	40-1 (STANLEY)				
CLIENT	NO.	ISSUED OR REVISION COMMENTS	DATE	DWN	CHK
	1.	UPDATED TO OBC 2012 - 2015 ENACTMENT	OCT. 19/15	AL	NC

SCALE
3/16" = 1'0"

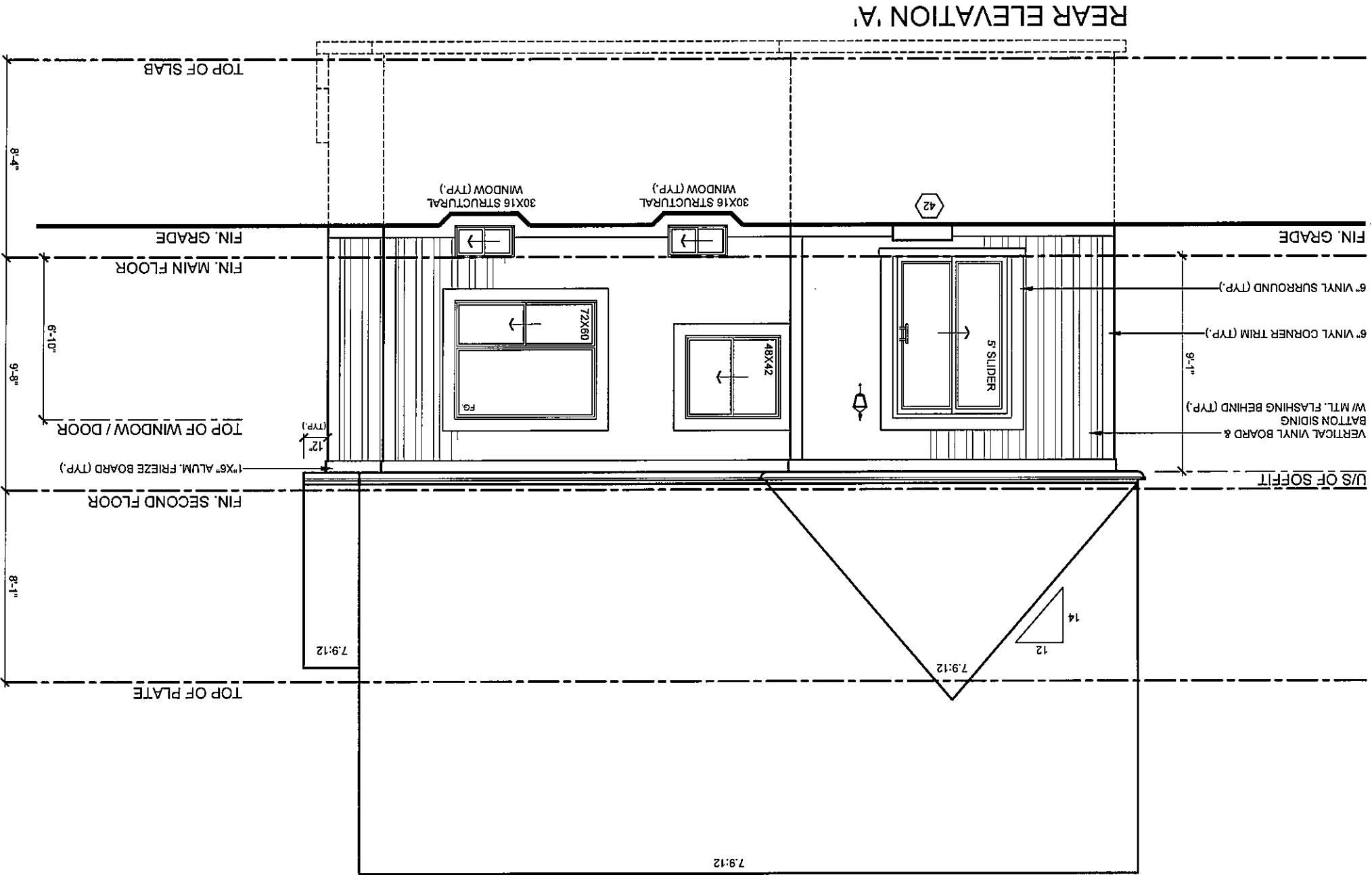
PROJECT NUMBER
14093

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REVISED: JANUARY 08, 2015 - RN STIFF IN ACCORDANCE TO SB-12 COMPLIANCE PACKAGE J

1. DESIGNER'S SIGNATURE AND TAKE DESIGN
RESPONSIBILITY FOR THE ENTIRE PROJECT
UNDER DIVISION C, PART 3, SUBSECTION 32.4 OF THE BUILDING CODE
I AM QUALIFIED, AND THE FIRM IS REGISTERED, IN THE APPROPRIATE
CLASSIFICATION CATEGORIES.

QUALIFIED DESIGNER BCIN: 21032
FIRM BCIN: 26935
DATE: OCTOBER 19, 2015

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It is the builder's complete responsibility to ensure that all plans submitted for approval fully comply with the Architectural Guidelines and all applicable regulations and requirements including zoning provisions and any provisions in the applicable zoning by-law. The Architect is not responsible in any way for examining or approving site (lotting) plans or building code or permit matter or that any house can be properly built or located on its lot.

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REVISED: JANUARY 08, 2015 - RN STAFF IN ACCORDANCE TO SB-12 COMPLIANCE PACKAGE J

NEELSON GUNJA DECLARE THAT I HAVE REVIEWED AND TAKE DESIGN
RESPONSIBILITY FOR THESE DRAWINGS AND AM A REGISTERED ARCHITECT
UNDER DIVISION C PART 3, SUBSECTION 22.4 OF THE BUILDING CODE
I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE
CLASSIFICATION CATEGORIES.

QUALIFIED DESIGNER BCIN: 21032
FIRM BCIN: 28995
DATE: OCTOBER 19, 2015

SIGNATURE:

MODEL 40-1 (STANLEY)

CLIENT

No. ISSUED OR REVISION COMMENTS
1. UPDATED TO OBC 2012 - 2015 ENACTMENT

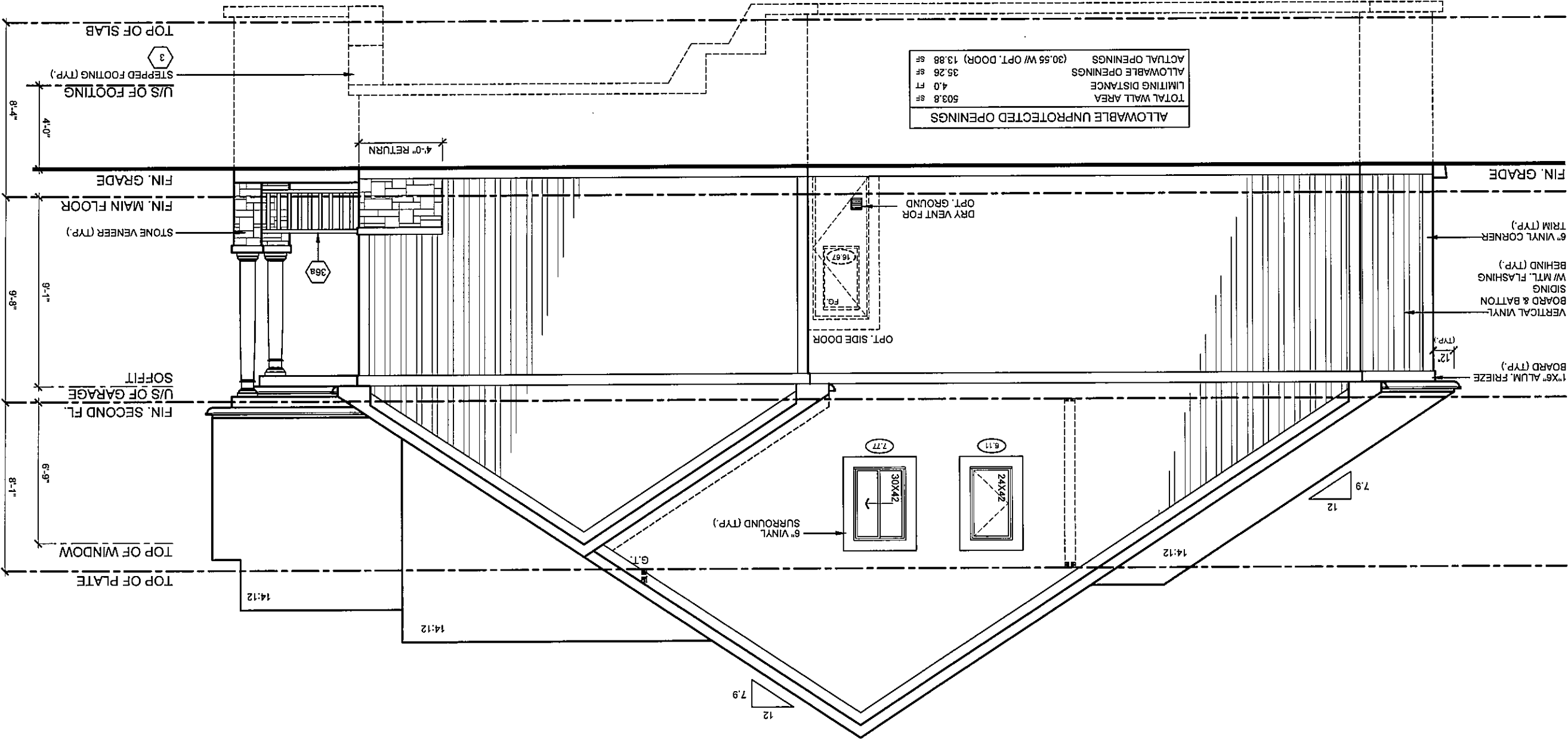
DATE DWN CHK
OCT. 19/15 AL NC

SCALE 3/16" = 1'0"
PROJECT NUMBER 14093

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LEFT SIDE ELEVATION 'A'



ALLOWABLE UNPROTECTED OPENINGS	
TOTAL WALL AREA	503.8 SF
LIMITING DISTANCE	4.0 FT
ALLOWABLE OPENINGS	35.26 SF
ACTUAL OPENINGS (30.55 W/OPT. DOOR)	13.88 SF

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MODEL		40-1 (STANLEY)		SCALE	
CLIENT		ESQUIRE HOMES		PROJECT NUMBER	
		NORTHGLEN - PHASE 2		14093	
		CLARINGTON, ONTARIO			



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1. NELSON OLUPHA BECAUSE THAT I HAVE REVIEWED AND TAKE DESIGN RESPONSIBILITY FOR THESE PLANS. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSIFICATION CATEGORIES.

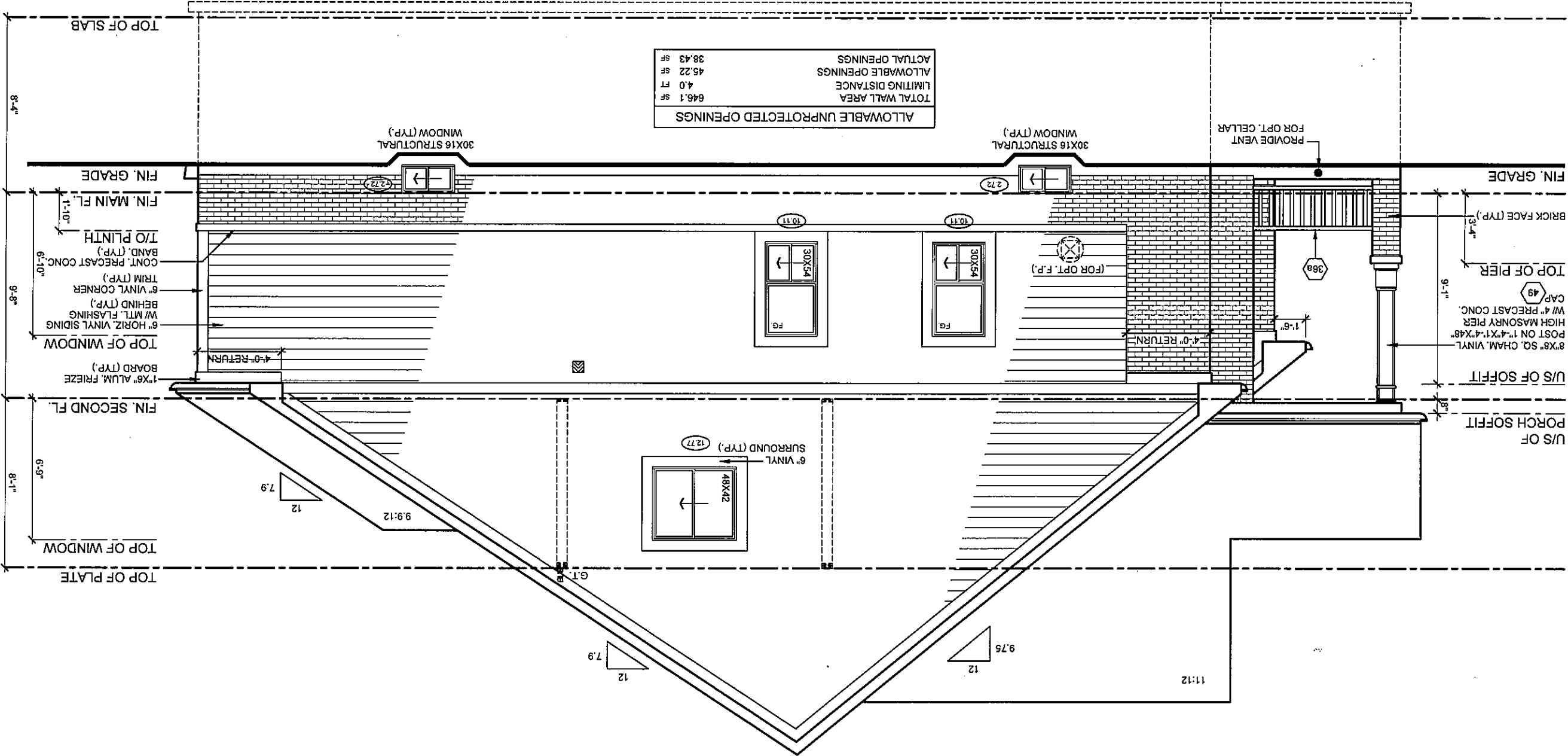
DATE: OCTOBER 19, 2015

SIGNATURE:

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RIGHT SIDE ELEVATION 'B'



ALLOWABLE UNPROTECTED OPENINGS	
TOTAL WALL AREA	646.1 SF
LIMITING DISTANCE	4.0 FT
ALLOWABLE OPENINGS	45.22 SF
ACTUAL OPENINGS	38.43 SF

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MODEL	40-1 (STANLEY)	No. ISSUED OR REVISION COMMENTS	DATE	DWN	CHK	SCALE
CLIENT	ESQUIRE HOMES NORTHGLEN - PHASE 2 CLARINGTON, ONTARIO	1. UPDATED TO OBC 2012 - 2015 ENACTMENT	OCT. 19/15	AL	NC	3/16" = 1'0"
						PROJECT NUMBER 14093
						PAGE A14

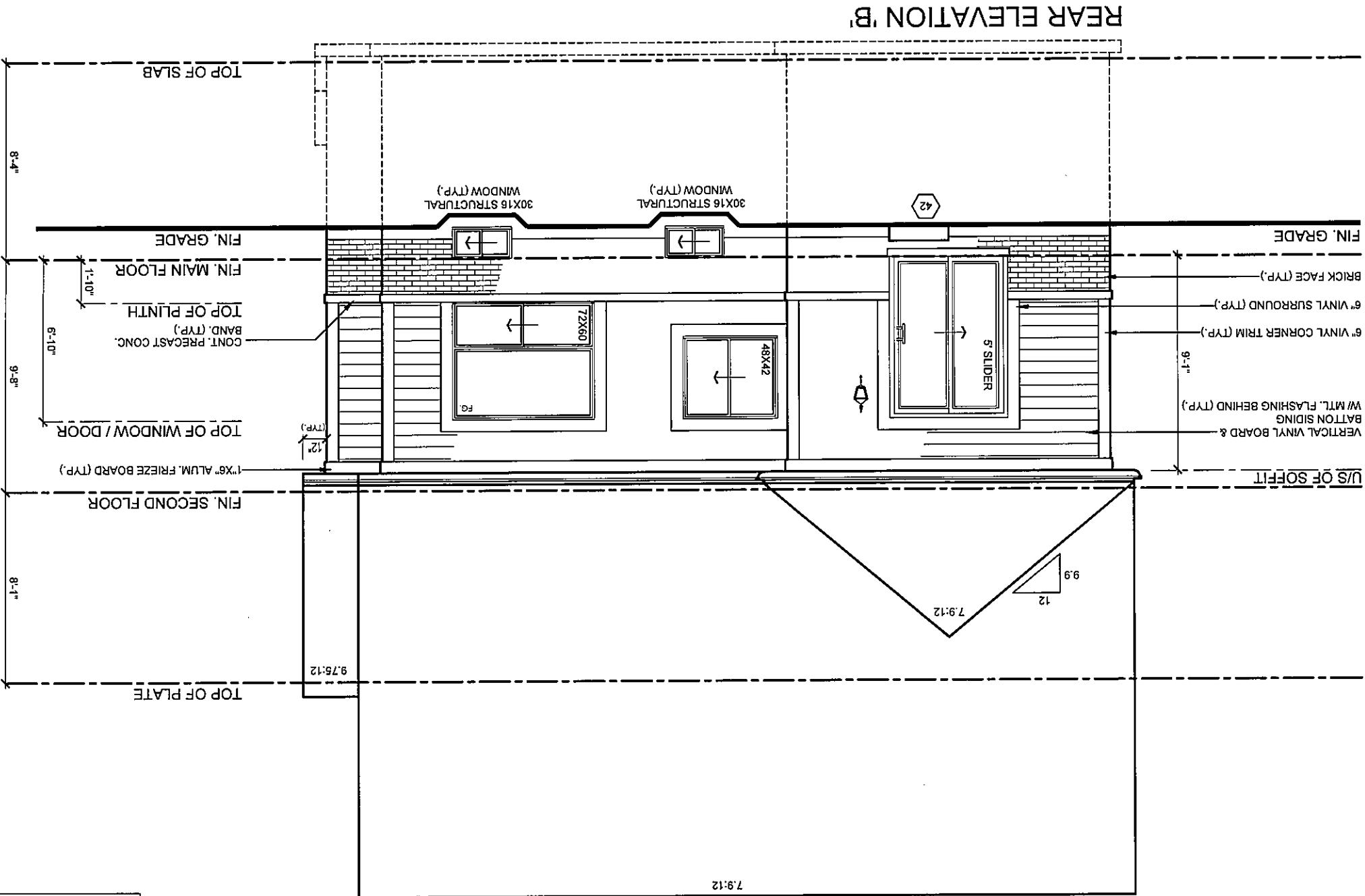


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REVISED: JANUARY 08, 2015 - RN STAFF IN ACCORDANCE TO 98-12 COMPLIANCE PACKAGE J

I, NELSON CUNHA, DESIGNER, HAVE REVIEWED AND TAKE DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF RN DESIGN LIMITED UNDER DIVISION C, PART 3, SUBSECTION 2.2.4. OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED, IN THE APPROPRIATE CLASSIFICATION CATEGORIES.

QUALIFIED DESIGNER BCIN: 21032
FIRM BCIN: 28936
DATE: _____
SIGNATURE: _____



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MODEL: 40-1 (STANLEY)

CLIENT:

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CLARINGTON, ONTARIO

No.	ISSUED OR REVISION COMMENTS
1.	UPDATED TO OBC 2012 - 2015 ENACTMENT

DATE	DWN	CHK
OCT. 19/15	AL	NC

SCALE: 3/16" = 1'0"

PROJECT NUMBER: 14093

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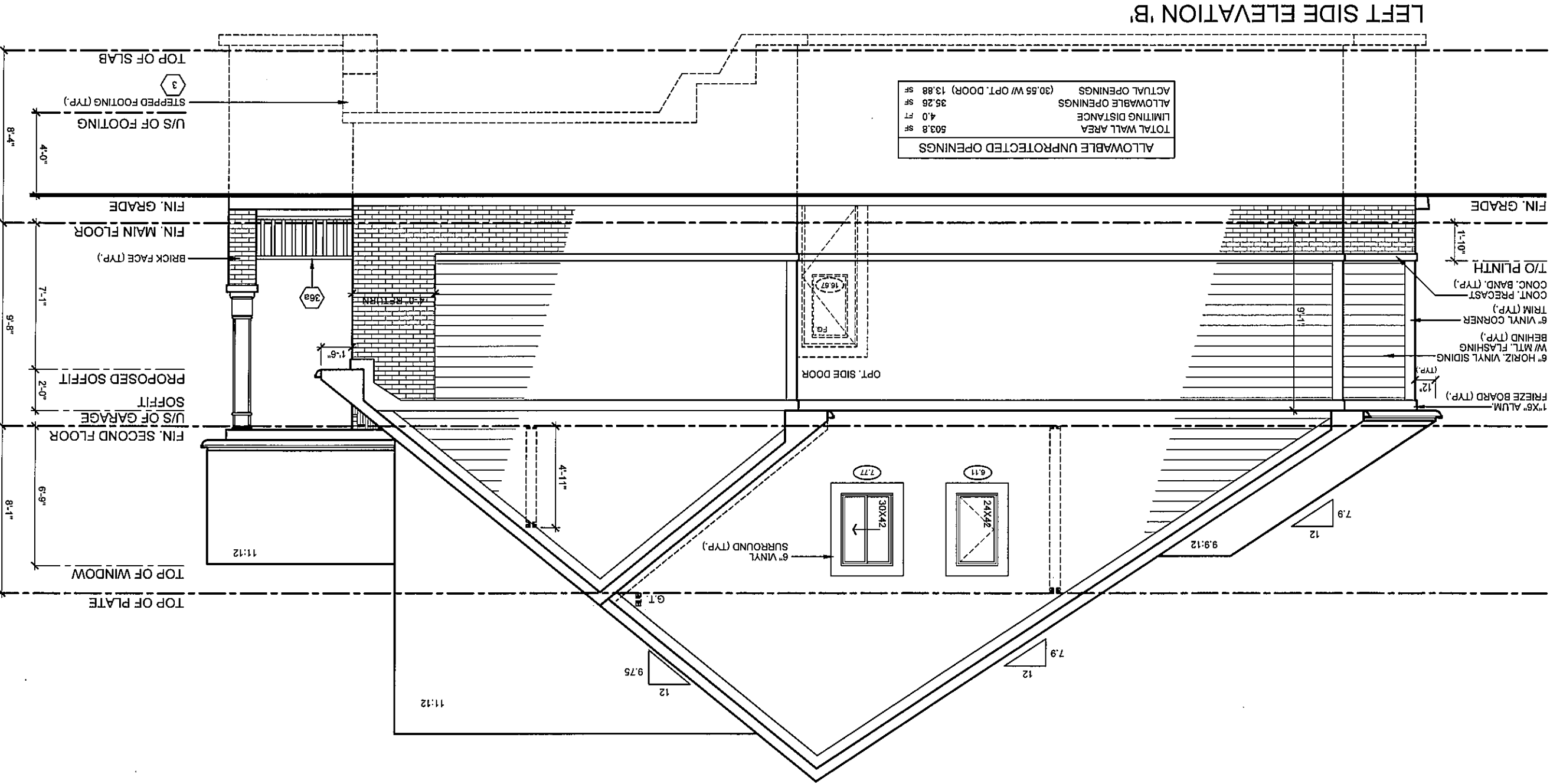
A15

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ALL DIMENSIONS SHALL BE AS SHOWN.
TO COMMENCEMENT OF ANY WORK, ANY DISCREPANCIES
MUST BE REPORTED DIRECTLY TO RN DESIGN LTD.
REVISED: JANUARY 08, 2015 - RN STAFF IN ACCORDANCE TO SR-12 COMPLIANCE PACKAGE J

I, NELSON GUINA, DECLARE THAT I HAVE REVIEWED AND TAKE DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF RN DESIGN LIMITED. I AM A REGISTERED PROFESSIONAL ARCHITECT IN THE PROVINCE OF ONTARIO AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSIFICATION CATEGORIES.

QUALIFIED DESIGNER BCIN: 21032
FIRM BCIN: 26995
DATE: OCTOBER 19, 2015

SIGNATURE:



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MODEL 40-1 (STANLEY)

CLIENT

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OCT. 19/15	AL	NC

SCALE 3/16" = 1'0"

PROJECT NUMBER 14093

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FIRM BCIN: 20995
DATE: OCTOBER 19, 2015
SIGNATURE:

CONSTRUCTION NOTES:

COMPLIANCE PACKAGE J - O.B.C. 2012 - 2015 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 STIFF FOOTING:

O.B.C. 9.15.3.
-BASED ON 16'-1/4" MAX. SUPPORTED JOIST LENGTH
-MIN. 2200psi (15MPa) CONCRETE AFTER 28 DAYS
-SHALL REST ON UNDISTURBED SOIL, ROCK OR COMPACTED GRANULAR FILT W/ MIN. 10 90d (75kPa) BEARING CAPACITY
-FTG. TO HAVE CONTINUOUS KEY
-FTG. SIZES MAY BE REDUCED FOR SOILS W/ GREATER BEARING CAPACITY (AS PER SOILS ENGINEERING REPORT)

TYPICAL STIFF FOOTING: (EXTERIOR WALLS)

O.B.C. 9.15.3.3.

-FTG. TO EXTEND MIN. 4'-0" (1200mm) BELOW GRADE
BRICK VENEER
-1-STORY - 13" X 4" (330mm X 100mm)
-2-STORY - 19" X 6" (480mm X 155mm)
-3-STORY - 26" X 9" (660mm X 230mm)
SIDING-
-1-STORY - 10" X 4" (255mm X 100mm)
-2-STORY - 14" X 4" (360mm X 100mm)
-3-STORY - 18" X 5" (460mm X 130mm)

TYPICAL STIFF FOOTING: (INTERIOR BEARING WALLS)

O.B.C. 9.15.3.6.

-1-STORY MASONRY - 16" X 4" (410mm X 100mm)
-1-STORY STUD - 12" X 4" (305mm X 100mm)
-2-STORY MASONRY - 26" X 9" (650mm X 230mm)
-2-STORY STUD - 18" X 5" (450mm X 130mm)
-3-STORY MASONRY - 36" X 14" (900mm X 360mm)
-3-STORY STUD - 24" X 6" (600mm X 200mm)

STIFF FOOTING:

O.B.C. 9.15.3.9.

-23 5/8" (600mm) MAX. VERTICAL RISE & 23 5/8" (600mm) MIN. HORIZONTAL RUN.

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" (125mm) OF CRUSHED STONE OR OTHER COARSE CLEAN GRANULAR MATERIAL.
-TILE SHALL DRAIN TO A SEWER, DRAINAGE DITCH, OR DRY WELL.

BASEMENT SLAB:

O.B.C. 9.13. & 9.16.

-3" (75mm) CONCRETE SLAB - O.B.C. 9.16.4.3.
-2200psi (15MPa) AFTER 28 DAYS - O.B.C. 9.16.4.5.
-DAMP-PROOF BELOW SLAB W/ MIN. 0.006" (0.15mm) POLYETHYLENE OR TYPE 'S' ROLL ROOFING W/ 4" (100mm) LAPPED JOINTS.
-DAMP-PROOFING MAY BE OMITTED IF CONCRETE HAS MIN. 3600psi(25MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS
-4" (100mm) OF COARSE 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.
-R-10 (RSI 1.74) 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 (O.B.C. 9B-12-2.1.1.6 [5])
-UNLESS IT CAN BE DEMONSTRATED THAT SOIL GAS DOES NOT CONSTITUTE A PROBLEM, SOIL GAS CONTROL SHALL CONFIRM TO SUPPLEMENTARY STANDARD (O.B.C. 9B-9)

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.
-DAMP-PROOF BELOW SLAB W/ MIN. 0.006" (0.15mm) POLYETHYLENE OR TYPE 'S' ROLL ROOFING W/ 4" (100mm) LAPPED JOINTS.
-DAMP-PROOFING MAY BE OMITTED IF CONCRETE HAS MIN. 3600psi(25MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS
-R-10 (RSI 1.74) INSULATION UNDER ENTIRE SLAB WHERE THE ENTIRE SLAB IS WITHIN 23-1/2" (600mm) OF GRADE.
-4" (100mm) OF COARSE 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 CONFIRM TO SUPPLEMENTARY STANDARD (O.B.C. 9B-9)

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. 9.3.1.4.
-6" X 6" (W2) X W 2.9 WIRE MESH LOCATED NEAR MID-DEPTH OF SLAB
-4" (100mm) OF COARSE GRANULAR MATERIAL
-ANY FILL PLACED UNDER SLAB, OTHER THAN COARSE CLEAN GRANULAR MATERIAL, SHALL BE COMPACTED.

PLASTER:

O.B.C. 9.15.5.3.

-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 7/8" (200mm) SOLID.
OR
-BEAM POCKET
-4" (100mm) INTO FIN. WALL W/ WIDTH TO MATCH BEAM SIZE
-1/2" (13mm) SPACE AROUND WOOD BEAMS (O.B.C. 9.23.2.2)

-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).

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" (152mm X 100mm X 6.35mm) STEEL BTL. PLATE
-FOR WOOD BEAMS, MIN. 4"x4"x1/4" (100mm X 100mm X 6.35mm) STEEL TOP & BTL. PLATES OR TOP PLATE TO EXTEND MIN. WIDTH OF BEAM
-ADJUSTABLE COLUMNS TO CONFORM TO CAN/CSA-2.26 WHERE IMPOSED LOAD DOES NOT EXCEED 36 kN (O.B.C. 9.17.3.4)
COL. SPACING:
FTG. SIZE:
2 STORY
-MAX. 9'-10" (2997mm)
-MAX. 9'-10" (2997mm)
-MAX. 16'-0" (4880mm)
-MAX. 16'-0" (4880mm)
-WHERE COL. SITS ON EDN. WALL, USE 4" X 8" X 5/8" (100mm X 200mm X 16mm) STEEL PLATE WITH 2-5/8" (16mm) ANCHOR BOLTS

WOOD COLUMN:

O.B.C. 9.17.4.1.

-5 1/2" X 5 1/2" (140mm X 140mm) SOLID WOOD COLUMN.
-METAL SHOE ANCHORED TO FOOTING
-25" X 25" X 12" (640mm X 640mm X 300mm) CONC. PAD (1 FLOOR SUPPORTED W/ 9'-10" COL. SPACING)
-34" X 34" X 14" (860mm X 860mm X 360mm) CONC. PAD (2 FLOORS SUPPORTED W/ 9'-10" COL. SPACING)

BLOCK PARTY WALL BEAM END BEARING: (WOOD BEAM / GIRDER TRUSSES)

-2"x8"x12" LEDGER BOARD FASTENED W/ 2" (12mm) ANCHOR BOLTS @ 4" O.C.
-WHERE WOOD BEAMS BEAR ON FIREWALLS USE GENERAL NOTE 11 BETWEEN ADJACENT BEAMS

-12"x11"x 5/8" STL. PLATE ON TOP OF SOLID CONCRETE BLOCK WITH 2- 1/2"x8" ANCHOR BOLTS.

WALL ASSEMBLIES:

FOUNDATION WALL:

O.B.C. 9.15.4.2.

-FOR WALLS NOT EXCEEDING 9'-10" (3000mm) 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 STL. PLATE TO JOIST.
-FOR CONDITIONS EXCEEDING THESE MAXIMUMS AN ALTERNATIVE IN CONFORMANCE TO O.B.C. 19.15.4.1 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/ R12 (RSI 2.11) FROTH UNDERSIDE OF SUBFLOOR TO NOT MORE THAN 8" (200mm) ABOVE FINISHED FLOOR OF BASEMENT (ZONE 1, O.B.C. 12.1.1.2.A)

-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. @ 7/8" (200mm) VERTICALLY O.C. & 2-1/2" (60mm) 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

DAMP-PROOFING & WATERPROOFING:

-DAMP-PROOF THE EXTERIOR FACE OF WALL BELOW GRADE AS PER O.B.C. 9.13.2.

-WHERE INSULATION EXTENDS TO MORE THAN 4'-9" (1450mm) 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 DAMPROOFING 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 DAMPROOFING.

FOUNDATION WALLS @ UNSUPPORTED OPENINGS:

-2-20M BARS IN TOP PORTION OF WALL (UP TO 8'-0" OPENING)

-3-20M BARS IN TOP PORTION OF WALL (8'-0" TO 10'-0" OPENING)

-4-20M BARS IN TOP PORTION OF WALL (10'-0" TO 15'-0" OPENING)

-BARS SPOKED 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.

FRAME WALL CONSTRUCTION:

O.B.C. 9.23.

-SIDING OR STUCCO AS PER ELEVATIONS, MIN. 7/8" (200mm) FROM FINISHED GRADE (O.B.C. 9.28.1.4. & 9.27.1)
-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. 9.23.1.6.
-2" X 6" (38mm X 140mm) WOOD STUDS @ 16" (400mm) O.C.
-MIN. R22 (RSI 3.87) INSULATION (ZONE 1, O.B.C. 12.1.1.2.A)
-CONTINUOUS AIR/VAPOR 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. 19.23.10.1. =

-FOR 3 FLOORS SUPPORTED ABOVE 2" X 6" (38mm X 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

ALTERNATE FRAME WALL CONSTRUCTION:

O.B.C. 9.23.

-SIDING OR STUCCO AS PER ELEVATIONS, MIN. 7/8" (200mm) FROM FINISHED GRADE (O.B.C. 9.28.1.4. & 9.27.1)
-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. 9.23.1.6.
-2" X 6" (38mm X 140mm) WOOD STUDS @ 16" (400mm) O.C.
-MIN. R22 (RSI 3.87) INSULATION (ZONE 1, O.B.C. 12.1.1.2.A)
-CONTINUOUS AIR/VAPOR 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. 19.23.10.1. =

-FOR 3 FLOORS SUPPORTED ABOVE 2" X 6" (38mm X 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

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

O.B.C. 9B-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 4'-0" LIMITING DISTANCE):

O.B.C. 9B-3 WALL = EW1B (STC = N/A, FIRE = 45 MIN)

FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE THE FOLLOWING MATERIALS:
-NON-COMBUSTIBLE 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.

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

O.B.C. 9B-3 WALL = EW1B (STC = N/A, FIRE = 45 MIN)

FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
-ADDITIONAL PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.1.6.
-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 4'-0" LIMITING DISTANCE):

O.B.C. 9B-3 WALL = EW1B (STC = N/A, FIRE = 45 MIN)

FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
-ADDITIONAL PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.1.6.
-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.

ALTERNATE FRAME WALL CONSTRUCTION:

O.B.C. 9.23.

-SIDING OR STUCCO AS PER ELEVATIONS, MIN. 7/8" (200mm) FROM FINISHED GRADE (O.B.C. 9.28.1.4. & 9.27.1)
-1 1/2" (38mm) R8 (RSI 1.41) RIGID INSULATION W/ TAPERED JOINTS (O.B.C. 9.27.3.4)

-8 GAUGE W/ CONT. 16 GAUGE STEEL T BRACES FROM TOP PLATE TO BTL. PLATE FOR THE FULL LENGTH OF WALL OR CONT. 2" X 4" (38mm X 89mm) SOLID WOOD BLOCKING @ APPROXIMATELY 45 DEG. FROM TOP PLATE TO BTL. PLATE FOR FULL LENGTH OF WALL.

-2" X 4" (38mm X 89mm) WOOD STUDS @ 16" (400mm) O.C. @ 12" (300mm) O.C. ON BOTTOM FLR. WHEN 3 STOREYS.
-R14 (RSI 2.46) INSULATION (ZONE 1, O.B.C. 12.1.1.2.A)
-CONTINUOUS AIR/VAPOR 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. 19.23.10.1. =

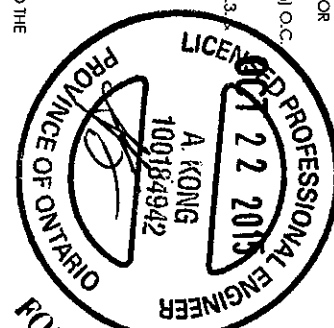
-FOR 2 FLOORS SUPPORTED ABOVE 2" X 4" (38mm X 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

-FOR 3 FLOORS SUPPORTED ABOVE 2" X 6" (38mm X 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

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

O.B.C. 9B-3 WALL = EW1B (STC = N/A, FIRE = 45 MIN)

FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
-ADDITIONAL PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.1.6.
-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.



FOR STRUCTURAL ONLY

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

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MODEL 40-1 (STANLEY)

CLIENT

NO. ISSUED OR REVISION COMMENTS

1. UPDATED TO OBC 2012 - 2015 ENACTMENT

DATE DWN CHK

OCT. 19/15 AL NC

SCALE N/A

PROJECT NUMBER 14093

PAGE

REVISED: JANUARY 08, 2015 - RN STAFF
IN ACCORDANCE TO SB-12 COMPLIANCE PACKAGE J
CLIENT SPECIFIC REVISIONS

I, NELSON GUINIA, DECLARE THAT I HAVE REVIEWED AND TAKE DESIGN RESPONSIBILITY FOR THE DESIGNATION ON BEHALF OF RN DESIGN LIMITED. I AM A REGISTERED PROFESSIONAL ENGINEER IN THE PROVINCE OF ONTARIO. I AM QUALIFIED AND THE FIRM IS REGISTERED, IN THE APPROPRIATE CLASSIFICATION CATEGORY.

QUALIFIED DESIGNER BCIN: 21032
FIRM BCIN: 28995
DATE: OCTOBER 19, 2015

SIGNATURE:

D1

- 17** **INTERIOR STUD WALLS:**
O.B.C. 1.9.23.10.1.
-2" X 4" (38mm X 89mm) WOOD STUDS @ 16" (400mm) O.C. OR
-2" X 6" (38mm X 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" (38mm X 89mm) WOOD STUDS @ 16" (400mm) O.C. OR
-2" X 6" (38mm X 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. 5B-3. WALL = B6c (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 & CALULATED TO PREVENT
SMOKE PASSAGE
-1/2" (12.7mm) GYPSUM BOARD W/ TAPED JOINTS BOTH SIDES
-2" X 2" (38mm X 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)
-5/8" G.G. JOISTS & BEAMS MIN. 3 1/2" (90mm) @ PARTY WALLS AS PER
O.B.C. 9.10.9.1(1) & TABLE 2.1.1, 5B-2
-ACOUSTICAL SEALANT AS PER O.B.C. 5B-3 (NOTE 12) TO TABLE 1)
- 19b** **PARTY WALL - BLOCK AGAINST GARAGE:**
O.B.C. 5B-3. WALL = B6c (STC = 57, 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" (38mm X 89mm) WOOD STRAPPING @ 16" (400mm) O.C.
-8/20 (RSJ 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. 9.10.1.1. & 3.1.10. & 5B-3. WALL = B6c (STC = 57, FIRE = 2 HR)
-ONE FIREWALL IS REQUIRED FOR EVERY 6460 S.F. (600 SQ.M) OF BUILDING
AREA. O.B.C. 1.3.22.47.
-1/2" (12.7mm) GYPSUM BOARD W/ TAPED JOINTS
-2" X 2" (38mm X 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
-EVER FIREWALL SHALL BE CONTINUOUS THROUGH ALL BUILDING STOREYS
-5/8" G.G. JOISTS & BEAMS MIN. 5" (130mm) @ FIRE WALLS AS PER
O.B.C. 9.10.9.1(1) & TABLE 2.1.1, 5B-2
-ACOUSTICAL SEALANT AS PER O.B.C. 5B-3 (NOTE 12) TO TABLE 1)
-PROUTIDE FAST FASCIA @ EAVES W/ BRICK CORRELING
-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 FAST UPPER ROOF SURFACE PER
O.B.C. 3.1.10.4(2)

- 210** **SUNKEN FINISHED AREAS:**
USE SOLID BUILD-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. 9.20.7.4.
-SILL PLATE REQUIRED FOR ROOF AND CHANGING FRAMING MEMBERS
-6" SILL W/ 7" 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.
- 250** **CORREL MASONRY VENEER:**
MASONRY VENEER TO BE CORRELATED AS PER O.B.C. 9.20.12.3.(1)
- 26** **FLOOR ASSEMBLIES:**
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 CALULATED, 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" (19mm X 64mm) NAILED TO U/S OF JOISTS @ MAX. 6'-11" (2100mm) O.C.
-FASTENED TO SILL OR HEADER @ ENDS
b) BRIDGING
-1" X 3" (19mm X 64mm) OR 2" X 2" (38mm X 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. (c)
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) WATERPROOF (R-1 GRADE) OR EQUIVALENT
-FLOOR JOISTS AS PER FLOOR PLANS
- 29** **PORCH SLABS ABOVE COLD CEILAR:**
O.B.C. 9.39.1.4.
-REINFORCED CONCRETE SLABS ABOVE COLD CEILARS THAT ARE SUPPORTED
ON FOUNDATION WALLS NOT TO EXCEED 8'-2"
-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.
- 30** **EXTERIOR BALCONY ASSEMBLY:**
-1 1/4" X 3 1/2" PRESSURE TREATED DECKING W/ 1/4" SPACING
-2" X 4" 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" X 4" WOOD PURLINS
(CUT DIAGONALLY) @ 12" O.C. DIRECTLY ON 2" X 8" ROOF JOISTS @ 12" O.C.
(OR AS NOTED ON PLAN)
-EXTERIOR GUARD AS PER #36g
-SLOPE ASSEMBLY MINIMUM 2% TO ROOF SCUPPER
-REQUIRED FOR OVER HEATED SPACES:
-ADD 2" X 2" (38mm X 38mm) CROSS PURLINS @ 16" (400mm) O.C. FOR
VENTILATION OVER JOISTS (OR BC 9.19.1.2. VENTING NOT LESS THAN 1/150 OF
CEILING AREA)
-ADD R31 (RSJ 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. 1.9.29.5.3)
- 30b** **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" X 8" ROOF JOISTS @ 12" O.C. (OR AS NOTED ON PLAN)
-REQUIRED FOR OVER HEATED SPACES:
-ADD 2" X 2" (38mm X 38mm) CROSS PURLINS @ 16" (400mm) O.C. FOR
VENTILATION OVER JOISTS (OR BC 9.19.1.2. VENTING NOT LESS THAN 1/150 OF
CEILING AREA)
-ADD R31 (RSJ 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. 1.9.29.5.3)

- 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" X 4" (38mm X 89mm) COLLAR TIES AT MIDSPANS
-CEILING JOISTS TO BE 2" X 6" (38mm X 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:**
O.B.C. 9.19.2.1.
-19 3/4" X 22 1/2" (500mm X 700mm) ATTIC HATCH WITH
WEATHERSTRIPPING & BACKED W/ R20 (RSJ 3.52) INSULATION.
- 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 = 2'-10" (660mm)
-BETWEEN WALL FACIES = 2'-11" (690mm)
-MIN. WIDTH (EXIT STAIRS, BETWEEN GUARDS) = 2'-11" (690mm)
-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
-FIG. 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" (655mm) MIN. TO 3'-2" (955mm) 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
- PUBLIC STAIRS:**
O.B.C. 9.8.4.
-MAX. RISE = 7'-3/8" (180mm)
-MIN. RUN = 11" (280mm)
-MIN. TREAD = 11" (280mm)
-MAX. NOSING = 1" (25mm)
-MIN. HEADROOM = 6'-9" (2050mm)
-MIN. WIDTH = 2'-11" (690mm)
-EXIT STAIRS, BETWEEN GUARDS)
-FINISHED RAILING ON WOOD PICKETS MAX. 4" BETWEEN PICKETS
-FOUND. WALL REQUIRED WHEN NUMBER OF RISERS EXCEEDS 2
-FIG. 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" (655mm) MIN. TO 3'-2" (955mm) 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 AS
FINISH:
- FINISH:**
O.B.C. 9.8.9.6
-TREADS ARE TO BE WEAR AND SLIP RESISTANT, SMOOTH, EVEN AND FREE
FROM DEFECTS PER CBC 9.8.9.6.4(4)
-STAIRS AND RAMPS SHALL HAVE A COLOUR CONTRAST OR DISTINCTIVE
VISUAL PATTERN TO DEMARKATE THE LEADING EDGE OF THE TREADS,
LANDING AND THE BEGINNING AND END OF A RAMP.
- INTERIOR GUARDS:**
O.B.C. 5B-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
- EXTERIOR GUARDS:**
O.B.C. 5B-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
-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
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- 19b** **FIREWALL:**
O.B.C. 9.10.1.1. & 3.1.10. & 5B-3. WALL = B6c (STC = 57, FIRE = 2 HR)
-ONE FIREWALL IS REQUIRED FOR EVERY 6460 S.F. (600 SQ.M) OF BUILDING
AREA. O.B.C. 1.3.22.47.
-1/2" (12.7mm) GYPSUM BOARD W/ TAPED JOINTS
-2" X 2" (38mm X 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
-EVER FIREWALL SHALL BE CONTINUOUS THROUGH ALL BUILDING STOREYS
-5/8" G.G. JOISTS & BEAMS MIN. 5" (130mm) @ FIRE WALLS AS PER
O.B.C. 9.10.9.1(1) & TABLE 2.1.1, 5B-2
-ACOUSTICAL SEALANT AS PER O.B.C. 5B-3 (NOTE 12) TO TABLE 1)
-PROUTIDE FAST FASCIA @ EAVES W/ BRICK CORRELING
-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 FAST 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 @ 220psf (15MPa)
COMPRESSIVE STRENGTH AFTER 28 DAYS
-FOUNDATION WALL TO REST ON FOOTING PER GENERAL NOTE #2
- 21** **PARTY WALL - WOOD STUD:**
O.B.C. 5B-3. WALL = W13g (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" X 4" (38mm X 89mm) STUDS @ 16" (400mm) O.C. W/ SEPARATE
2" X 4" (38mm X 89mm) BOTTOM PLATE, & SEPARATE DOUBLE 2" X 4"
(38mm X 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. 5B-3 (NOTE 12) TO TABLE 1)
NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. 1.9.23.10.1. =
-FOR 2 FLOORS SUPPORTED ABOVE 2" X 4" (38mm X 89mm) STUDS ARE
REQUIRED TO BE SPACED @ 12" (300mm) O.C.
-FOR 3 FLOORS SUPPORTED ABOVE 2" X 6" (38mm X 140mm) STUDS ARE
REQUIRED TO BE SPACED @ 12" (300mm) O.C.
- 22** **GARAGE WALL & CEILING:**
O.B.C. 9.10.9.16.13
-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
-8/22 (RSJ 3.87) INSULATION IN WALLS.
-8/21 (RSJ 3.41) 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.
-1/2" (12.7mm) GYPSUM BOARD
-ROOF FRAMING MEMBERS ARE FASTENED TO TOP PLATES WITH
4-3 1/4" (82mm) TCE 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.
-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" (38mm X 140mm) WOOD STUDS @ 16" (400mm) O.C. W/
-8/22 (RSJ 3.87) INSULATION
-1/2" (12.7mm) GYPSUM BOARD OR 1/4" (6.4mm) PLYWOOD SHEATHING
ON ATTIC SIDE
-ATTIC ACCESS TO BE PROVIDED 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 3/4" (19mm) (80mm) NAILS
-DOUBLE TOP PLATES FASTENED TOGETHER WITH 7/8" (20mm) NAILS
-7 7/8" (200mm) O.C.
-SOLID BRIDGING AT 5'-11" (1200mm) O.C.
-MIN. R22 (RSJ 3.87) INSULATION (ZONE 1 - O.B.C. 1.2.2.A)
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE WITH
9.25.3. & 9.25.9.
-24
- 24** **EXPPOSED FLOOR:**
-FLOOR AS PER NOTE # 28
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE WITH
O.B.C. 9.25.3. & 9.25.4.
-RSJ (RSJ 3.46) INSULATION
-NEED ALUMINUM SOFFIT

- 31** **ROOF ASSEMBLIES**
O.B.C. 9.26.
-NO. 210 (30. SKG/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 LAND 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 (O-2 GRADE) WITH "T" 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:**
-R30 (RSJ 3.8) 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. 1.9.29.5.3)
- 32** **CEILING:**
O.B.C. 9.26. & TABLE 4.4
-NO. 210 (30. SKG/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 LAND 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 (O-2 GRADE) WITH "T" 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.
- 36** **INTERIOR GUARDS:**
O.B.C. 5B-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
- 360** **EXTERIOR GUARDS:**
O.B.C. 5B-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
-GUARDS FOR FLIGHTS OF STEPS (EXCEPT EXIT STAIRS) TO BE 2'-11" (900mm) HIGH
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- 360** **EXTERIOR GUARDS:**
O.B.C. 5B-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
-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
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- 36b) EXTERIOR GUARDS @ JULIET BALCONY:**
- FOR RAILING SPANNING MAXIMUM OF 6'-0".
 - PROVIDE PERIN METAL RAILING W/ 76mm VERTICAL OPENING TO CONFORM WITH O.B.C., APPENDIX A-2.8.5.
 - 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"x2 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" (390mm) DEEP
- 38)** WASHROOMS TO BE MECHANICALLY VENTED TO PROVIDE AT LEAST ONE AIR CHANGE PER HOUR. O.B.C. 9.32.1.3.(9)
- 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
- 43)** -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 SERVING 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 SIGNALING 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 FIRE 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 WITHOUT 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 MAIN DOORS TO BE GAS PROTECTED WITH SELF CLOSER, WEATHERSTRIPPING, THRESHOLD & DEAD BOLT PER O.B.C. 9.10.13.1.5.- 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 CLAD W/ DECOR. SURROUND METAL SADDLE.
 - TOP PORTION OF POST CLAD W/ DECOR. SURROUND PER ELEVATION DRAWINGS
 - 1-1/4" X 1-1/4" MASONRY PIER TO BE CONSTRUCTED SOLID 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 ABOVE POST.
 - OR
 - MIN. 6"x6" (140mm X 140mm) WOOD POST CLAD W/ DECOR. SURROUND (PER ELEVATION DRAWINGS) ANCHORED TO CONC. CAP W/ METAL SADDLE.
 - 1-1/4" X 1-1/4" 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.

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
 - 1-1/2" 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 CLOSET & 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)(d)&(e) & 3.8.3.13.(2)(i) & 3.8.3.13.(4)(c)
 - GRAB BARS TO BE INSTALLED AS PER O.B.C. 9.8.2.7.(2)

FRAME CONSTRUCTION:

 - ALL FRAMING LUMBER TO BE NO.1 AND NO.2 SPF UNLESS NOTED OTHERWISE
 - ROOF LOADING IS BASED ON 1.5RPG 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 LOAD BEARING WALLS WHEN WALLS ARE PARALLEL TO FLOOR JOISTS

BEAMS MAY BE A MAX. 24" (600mm) FROM LOAD BEARING 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 254mm) OR LARGER.

WINDOWS:

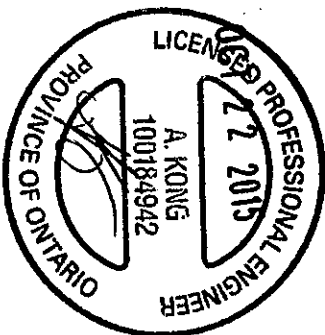
 - WINDOWS TO BE SEALED TO THE AIR & VAPOR BARRIER
 - WINDOWS THAT SEPARATE HEATED SPACE FROM UNHEATED SPACE SHALL HAVE AN OVERALL COEFFICIENT OF HEAT TRANSFER OF 1.8 W/(m2.K) OR
 - AN ENERGY RATING OF NOT LESS THAN 21 FOR OPERABLE WINDOWS & 31 FOR FIXED WINDOWS
 - BASEMENT WINDOWS WITH LOAD BEARING STRUCTURAL 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 17%

ADDITIONAL COMPLIANCE ALTERNATIVES FOR PACKAGE 1:

 - THE MINIMUM R (RSI) VALUE FOR THERMAL INSULATION IN EXPOSED ABOVE GRADE WALLS IS PERMITTED TO BE NO LESS THAN R20 (RSI 3.52) PROVIDED: THAT THE WINDOWS AND SLIDING GLASS DOORS HAVE A MAXIMUM U-VALUE OF 1.6, OR THE THERMAL INSULATION VALUE IN BASEMENT WALLS HAS A MINIMUM R20 (RSI 3.52).
 - OR
 - WHERE BLOWN IN INSULATION OR SPRAY-APPLIED FOAM INSULATION IS USED, THE MINIMUM R (RSI) VALUE FOR THERMAL INSULATION IN EXPOSED ABOVE GRADE WALLS IS PERMITTED TO BE NO LESS THAN R20 (RSI 3.52) PROVIDED THAT:
 - a) THE THERMAL INSULATION VALUE IN A CEILING WITH AN ATTIC SPACE IS NOT LESS THAN R40 (RSI 10.55).
 - b) THE MINIMUM EFFICIENCY OF THE HRV IS INCREASED BY NOT LESS THAN 8 PERCENTAGE POINTS.
 - c) THE MINIMUM AFUE OF THE SPACE HEATING EQUIPMENT IS INCREASED BY NOT LESS THAN 2 PERCENTAGE POINTS.
 - d) THE MINIMUM EF OF THE DOMESTIC HOT WATER HEATER IS INCREASED BY NOT LESS THAN 4 PERCENTAGE POINTS.

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SCHEDULES

DOORS		WOOD BEAMS	
A 866x2030x45 (2'10"x6'8"x1-3/4")	WD1 3/2" X 8" SPR	WD6 5/2" X 10" SPR	WD10 2/1 3/4" X7 1/4" (2.0E) LVL
B 815x2030x35 (2'8"x6'8"x1-3/8")	WD2 4/2" X 8" SPR	WD7 3/2" X 12" SPR	WD11 3/1 3/4" X7 1/4" (2.0E) LVL
C 760x2030x35 (2'6"x6'8"x1-3/8")	WD3 5/2" X 8" SPR	WD8 4/2" X 12" SPR	WD12 2/1 3/4" X9 1/2" (2.0E) LVL
D 710x2030x35 (2'4"x6'8"x1-3/8")	WD4 3/2" X 10" SPR	WD9 5/2" X 12" SPR	WD13 3/1 3/4" X9 1/2" (2.0E) LVL
E 460x2030x35 (1'6"x6'8"x1-3/8")	WD5 4/2" X 10" SPR	WD14 2/1 3/4" X11 7/8" (2.0E) LVL	WD15 3/1 3/4" X11 7/8" (2.0E) LVL
F 610x2030x35 (2'0"x6'8"x1-3/8")			
G OVER SIZED EXTERIOR DOOR REFER TO ELEVATIONS FOR SIZE			
LINTELS		STEEL BEAMS	
L1 2/2" X 8" SPR	L10 4-7/8" X 3-1/2" X 5/16" L	L15 5-7/8" X 4" X 1/2" L	
L3 2/2" X 10" SPR	L11 4-7/8" X 3-1/2" X 3/8" L	L16 7-1/8" X 4" X 3/8" L	
L5 2/2" X 12" SPR	L12 4-7/8" X 3-1/2" X 1/2" L	L17 7-1/8" X 4" X 1/2" L	
L7 3-1/2" X 3-1/2" X 1/4" L	L13 5-7/8" X 3-1/2" X 3/8" L		
L9 4" X 3-1/2" X 1/4" L	L14 5-7/8" X 3-1/2" X 1/2" L		
ST1 W 6 X 15	ST3 W 8 X 18	ST5 W 8 X 24	
ST2 W 6 X 20	ST4 W 8 X 21		

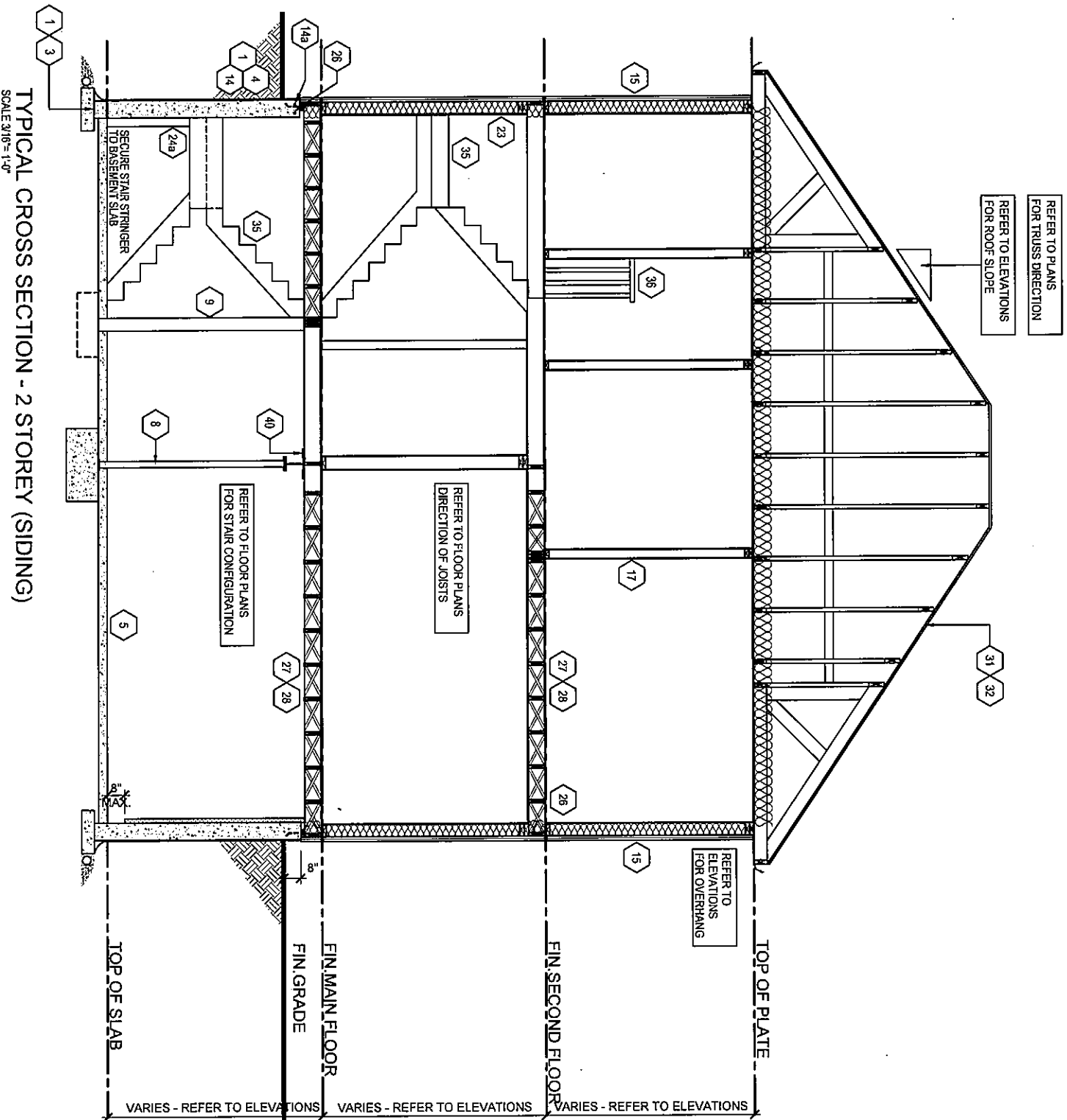
PLANE/ELEVATION LEGEND

44) SMOKE ALARM	45) CARBON MONOXIDE DETECTOR	FLOOR DRAIN
WATERPROOF DUPLEX OUTLET	D.J. DOUBLE JOIST	SOLID BEARING
VENTS AND INTAKES	P.T. PRESSURE TREATED LUMBER	TO BE SAME WIDTH AS SUPPORTED MEMBER
HOSE BIB	G.T. GAS TURBINE	POINT LOAD
EXHAUST FAN	A.F.F. ABOVE FINISHED FLOOR	FLAT ARCH
COLD CELLAR VENT	EXT. LIGHT FIXTURE (WALL MOUNTED)	2 STORY WALL
STOVE VENT	HYDRO METER	FIXED GLAZING
FIRE PLACE VENT	GAS METER	GLASS BLOCK
DRYER VENT		BLACK GLASS

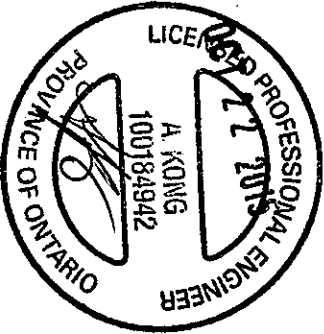
FLOOR AREA CALCULATIONS

ELEVATION	A	B			
FIRST FLOOR	1160	1160			
SECOND FLOOR	668	674			
TOTAL (ft ²)	1828	1834			
DUCT O.T.B.	N/A	N/A			
TOTAL (ft ²)	1828	1834			
FIN. BASEMENT	N/A	N/A			
TOTAL (ft ²)	1828	1834			
LOFT PLAN	N/A	N/A			
TOTAL (ft ²)	1828	1834			
COVER (ft ²)	169.8	170.3			
W/O PORCH (m ²)	144.0	144.1			
COVER (ft ²)	1657	1621			
W/ PORCH (m ²)	153.9	150.5			

Imagine • Inspire • Create TEL: (905) 738-3177 FAX: (905) 738-5449	MODEL	40-1 (STANLEY)		No.	ISSUED OR REVISION COMMENTS	DATE	DWN	CHK	SCALE
	CLIENT	ESQUIRE HOMES NORTHGLEN - PHASE 2 CLARINGTON, ONTARIO		1.	UPDATED TO OBC 2012 - 2015 ENACTMENT	OCT. 19/15	AL	NC	N/A
REVISIONS	REVISED: JANUARY 08, 2015 - RN STAFF IN ACCORDANCE TO SB-12 COMPLIANCE PACKAGE J		1. NELSON CLINIA DECLARE THAT I HAVE REVIEWED AND TAKE DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF RN DESIGN LIMITED UNDER DIVISION C, PART 3, SUBSECTION 3.2.4. OF THE BUILDING CODE, LAW 55 (ENACTED 2006) AND THE FIRM IS REGISTERED IN THE APPROPRIATE JURISDICTION.		QUALIFIED DESIGNER BCIN: 21032 FIRM BCIN: 26995		SIGNATURE:		PAGE
◆ CLIENT SPECIFIC REVISIONS					OCTOBER 19 2015				D3
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	CLIENT	ESQUIRE HOMES NORTHGLEN - PHASE 2 CLARINGTON, ONTARIO		1. UPDATED TO OSC 2012 - 2015 ENACTMENT	OCT. 19/15	AL	NC	N/A	
THESE DRAWINGS ARE NOT TO BE SCALED. PRIOR TO COMMENCEMENT OF ANY WORK, ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RN DESIGN LTD. REVISED: JANUARY 08, 2015 - RN STAFF IN ACCORDANCE TO SP-12 COMPLIANCE PACKAGE J				I, NELSON GUNJA, DECLARE THAT I HAVE REVIEWED AND TAKE DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF RN DESIGN LIMITED. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSIFICATION CATEGORIES.		QUALIFIED DESIGNER BCIN: 21092 FIRM BCIN: 26995 DATE: OCTOBER 19, 2015		SIGNATURE:	PAGE
									PROJECT NUMBER 14093
									D4