

APPROVED DRAWINGS HAVE BEEN RED LINED INDICATING A CHANGE TO MEET THE OBC. PLEASE REVIEW ALL PAGES TO ENSURE YOU ARE PROPERLY INFORMED OF CHANGES.

CALL FOR INSPECTION OF EXCAVATION CRIBBING BEFORE POURING ANY CONCRETE

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL CONSTRUCTION CONFORMS TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE. NOTATIONS MADE ON THESE DRAWINGS ARE FOR YOUR INFORMATION AND ASSISTANCE ONLY AND DO NOT NECESSARILY COMMENT ON ALL AREAS OF CONSTRUCTION.

INSPECTIONS ARE REQUIRED TO BE EMAILED IN TO BUILDING@NORTHDUMFRIES.CA 24 HOURS IN ADVANCE OF THE REQUIRED INSPECTION.

FINAL GRADING CERTIFICATE REQUIRED BEFORE FINAL INSPECTION SIGN-OFF



NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

TOWNSHIP OF NORTH DUMFRIES BUILDING DEPARTMENT

These Plans have been examined for Compliance with the Ontario Building Code requirements. A Building Permit has been Issued, subject to any changes noted, under the condition that the building will be constructed in accordance with the code.

Adam Miller **10/08/2020**
 REVIEWED BY DATE

Drawing List:

- A0 TITLE SHEET
- A1 BASEMENT FLOOR ELEV 'A' & 'B' (RIGHT)
BASEMENT FLOOR ELEV 'A' & 'B' (LEFT)
- A2 GROUND FLOOR ELEV 'A' (RIGHT)
GROUND FLOOR ELEV 'A' (LEFT)
- A3 SECOND FLOOR ELEV 'A' (RIGHT)
SECOND FLOOR ELEV 'A' (LEFT)
- A4 GROUND FL ELEV 'B' (RIGHT)
GROUND FLOOR ELEV 'B' (LEFT)
- A5 SECOND FLOOR ELEV 'B' (RIGHT)
SECOND FLOOR ELEV 'B' (LEFT)
- A6 FRONT ELEVATION ELEV 'A' (LEFT)
FRONT ELEVATION ELEV 'A' (RIGHT)
ROOF PLAN ELEV 'A'
- A7 RIGHT SIDE ELEVATION 'A'
- A8 REAR ELEVATION 'A' & 'B' (RIGHT)
REAR ELEVATION 'A' & 'B' (LEFT)
- A9 LEFT SIDE ELEVATION 'A'
- A10 FRONT ELEVATION ELEV 'B' (LEFT)
FRONT ELEVATION ELEV 'B' (RIGHT)
ROOF PLAN ELEV 'B'
- A11 RIGHT SIDE ELEVATION 'B'
- A12 LEFT SIDE ELEVATION 'B'
- D1 CONSTRUCTION NOTES
- D2 CONSTRUCTION NOTES
- D3 CONSTRUCTION NOTES

Areas:

		ELEVATION 'A'		ELEVATION 'B'	
		SF	SM	SF	SM
GROUND FLOOR PLAN (RIGHT)	(0)	731.8	68.0	731.8	68.0
SECOND FLOOR PLAN (RIGHT)	(0)	946.5	87.9	946.5	87.9
TOTAL AREA (0)		1678.3	155.9	1678.3	155.9
GROUND FLOOR PLAN (LEFT)	(1)	731.8	68.0	731.8	68.0
SECOND FLOOR PLAN (LEFT)	(1)	935.3	86.9	935.3	86.9
TOTAL AREA (1)		1667.1	154.9	1667.1	154.9
COVERAGE INC PORCH		1080.1	100.3	1080.1	100.3
COVERAGE NOT INC PORCH		993.8	92.3	993.8	92.3

THE FLOOR AND TRUSS LAYOUTS PROVIDED BY THE MANUFACTURER HAVE BEEN REVIEWED, APPROVED AND COORDINATED ON THE WORKING DRAWING PLANS PROVIDED BY RN DESIGN

Tice River Homes
Legacy

I, JORGE MORENO 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: 47245
 FIRM BCIN: 26995
 DATE: J. Moreno
 SIGNATURE: _____

client	Tice River Homes					location	Ayr				
project	Legacy					marketing name					
#	revisions	date	dwn	chk	#	revisions	date	dwn	chk	#	
1	ISSUED FOR CLIENT REVIEW	23-FEB-18	KK	ES	5	RE-ISSUED FOR PERMIT	18-OCT-19	ES	ES		
2	REVISED PER TRUSS COORDINATION	23-APR-18	LO	JM							
3	REVISED PER ENGINEER COMMENTS & ISSUED FOR PERMIT	20-JUL-18	WU	JM							
4	MADE ALL PARTIAL PLANS INTO FULL PLANS PER CITY COMMENTS	4-OCT-19	KC	ES							

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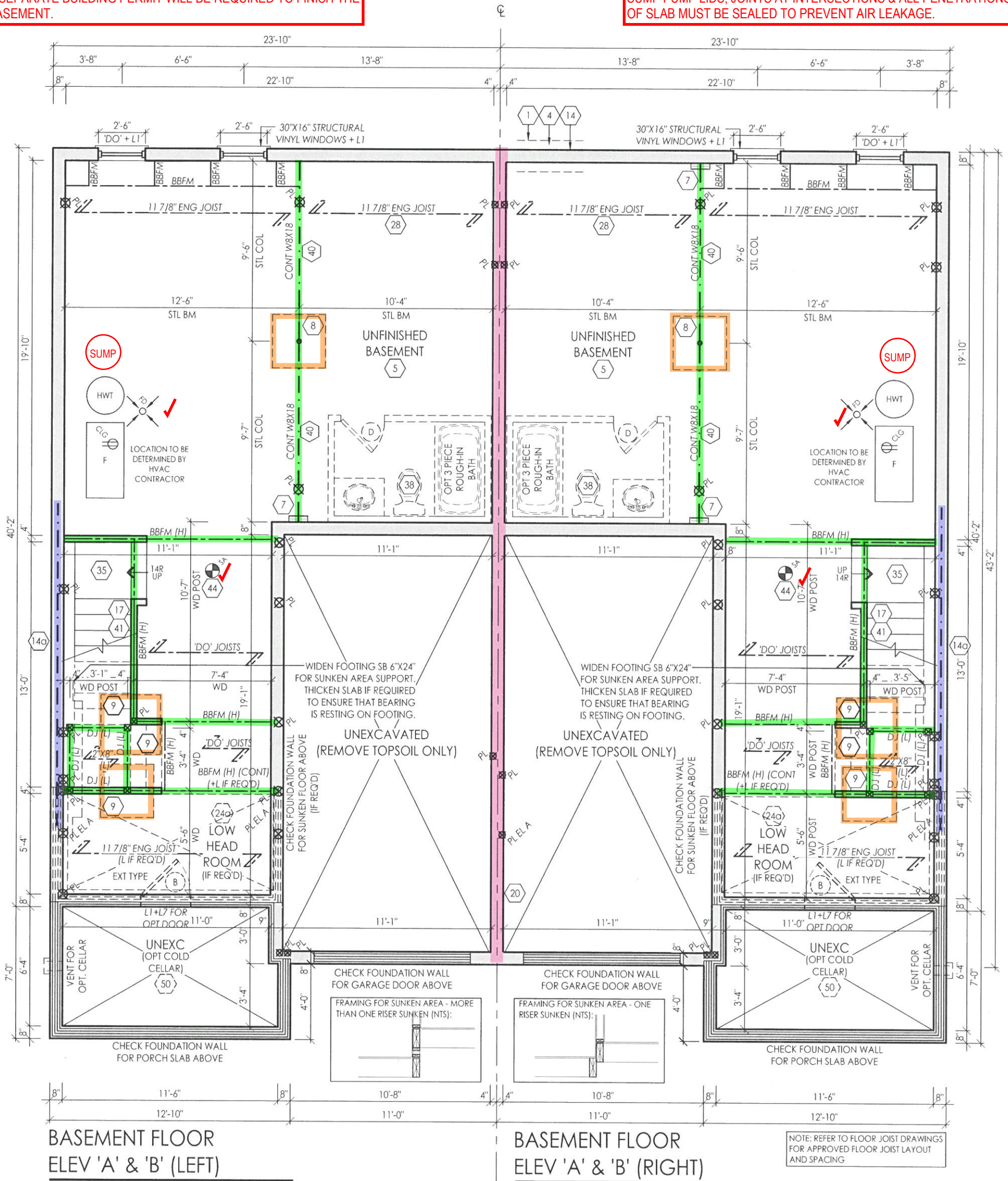
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model SD-01
 scale 3/16" = 1'0"
 project # 17052
 page A0

INSULATION IS REQ'D TO BE CONTINUOUS.

A SEPARATE BUILDING PERMIT WILL BE REQUIRED TO FINISH THE BASEMENT.

SUMP PUMP LIDS, JOINTS AT INTERSECTIONS & ALL PENETRATIONS OF SLAB MUST BE SEALED TO PREVENT AIR LEAKAGE.



THE COLD CELLAR DOOR NEEDS TO BE INSULATED AND WEATHER-STRIPPED.

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File: C:\PN_Standards\Temp\AcPublish_26932\17052\SD-01\FINAL.dwg Plotted: Oct 16, 2019 8:45:00

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client
Tice River Homes

project
Legacy

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4	MADE ALL PARTIAL PLANS INTO FULL PLANS PER CITY COMMENTS	4-OCT-19	KC	ES					

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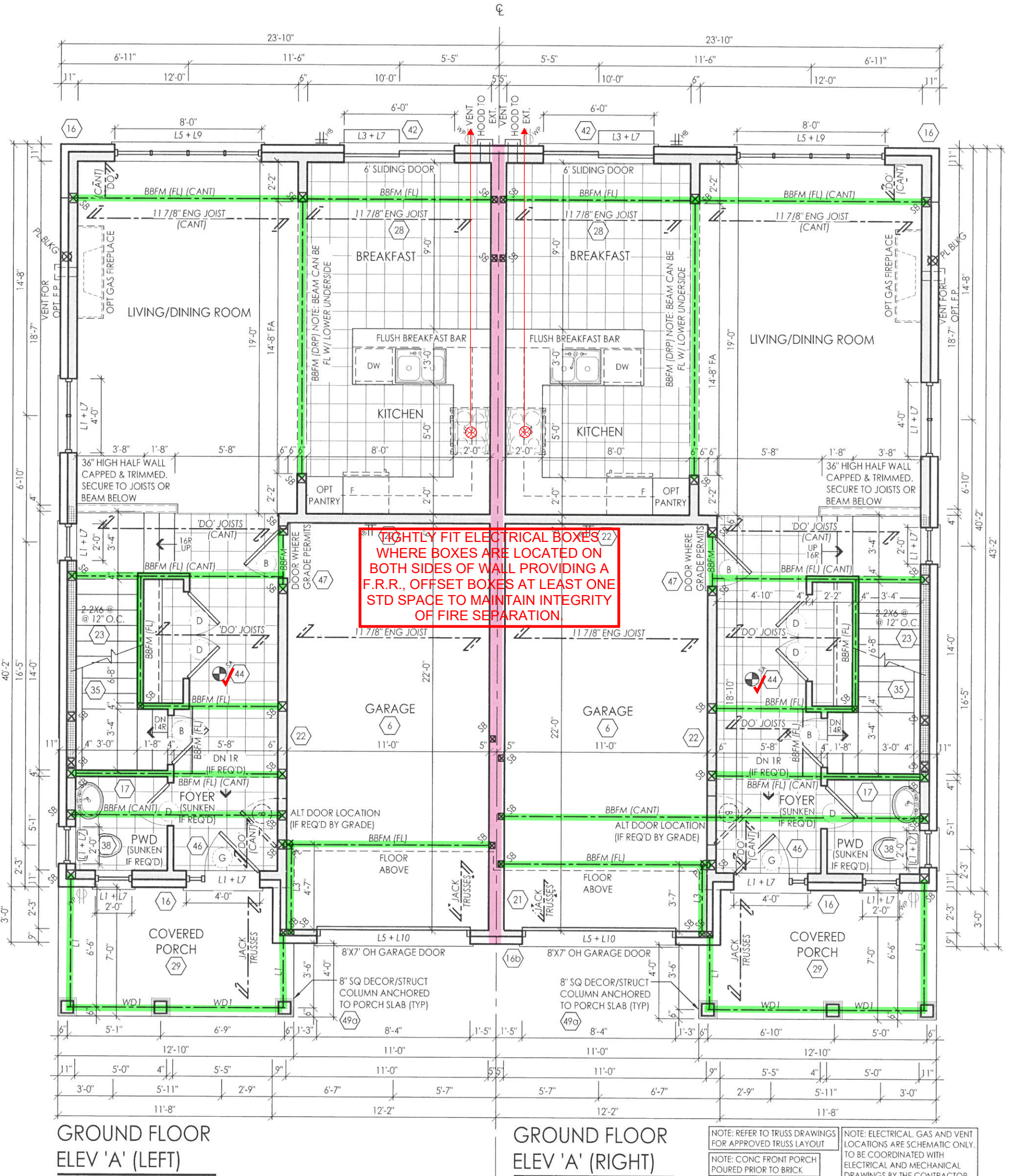
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SD-01

scale
3/16" = 1'0"

project #
17052

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NOTE: REFER TO TRUSS DRAWINGS FOR APPROVED TRUSS LAYOUT
 NOTE: CONC FRONT PORCH POURED PRIOR TO BRICK
 NOTE: ELECTRICAL, GAS AND VENT LOCATIONS ARE SCHEMATIC ONLY. TO BE COORDINATED WITH ELECTRICAL AND MECHANICAL DRAWINGS BY THE CONTRACTOR
 NOTE: REFER TO FLOOR JOIST DRAWINGS FOR APPROVED FLOOR JOIST LAYOUT AND SPACING

THE FLOOR AND TRUSS LAYOUTS PROVIDED BY THE MANUFACTURER HAVE BEEN REVIEWED, APPROVED AND COORDINATED ON THE WORKING DRAWING PLANS PROVIDED BY RN DESIGN



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client: Tice River Homes
 location: Ayr
 project: Legacy
 marketing name:

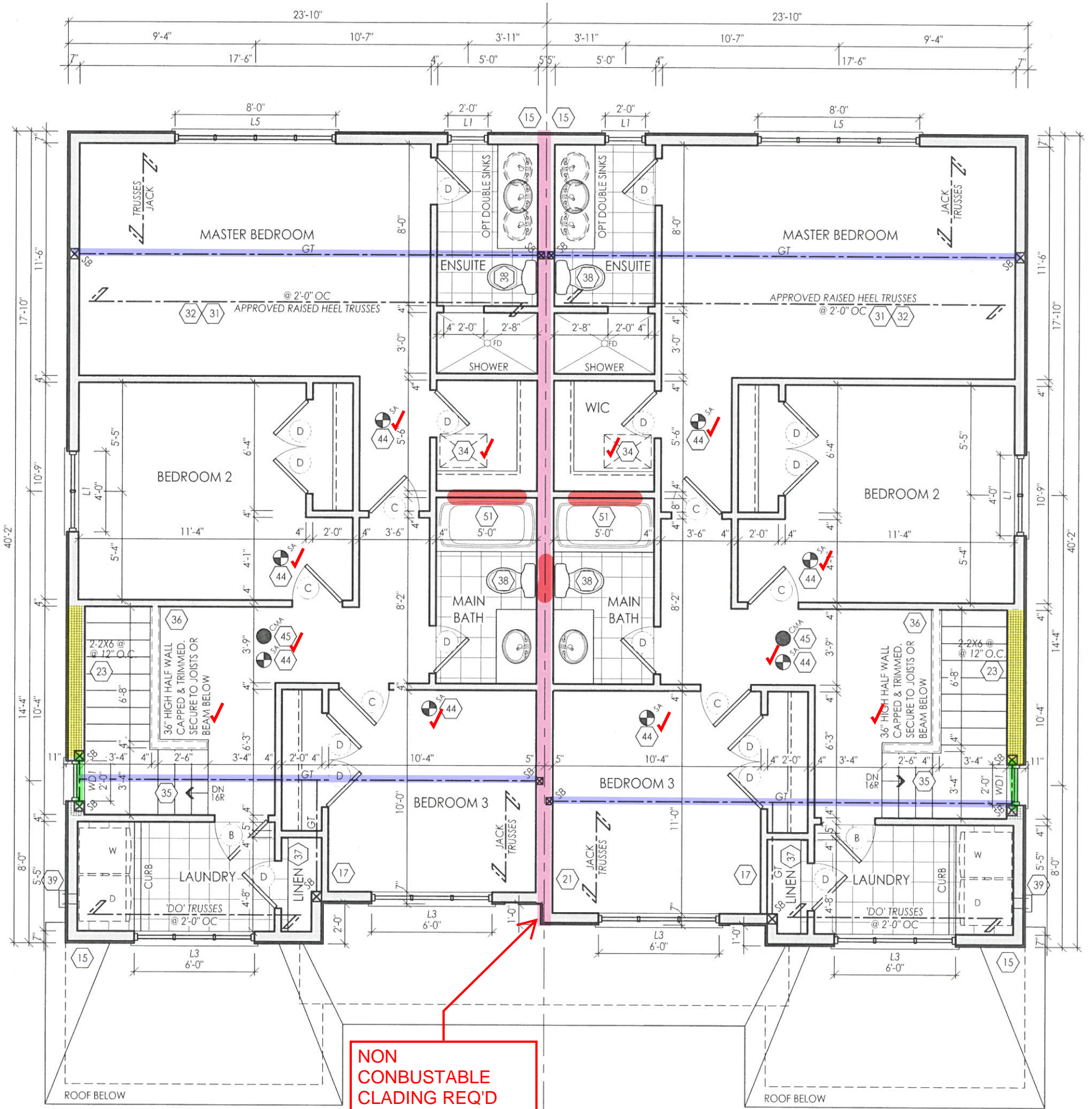
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 project #: 17052

QUALIFIED DESIGNER BCIN: 47245
 FIRM BCIN: 26995
 DATE: *[Signature]*

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REINFORCEMENT REQUIRED IN MAIN BATHROOM STUD WALLS TO PERMIT THE FUTURE INSTALLATION OF GRAB BARS.



NON CONBUSTABLE CLADING REQ'D

SECOND FLOOR ELEV 'A' (LEFT)

SECOND FLOOR ELEV 'A' (RIGHT)

NOTE: REFER TO TRUSS DRAWINGS FOR APPROVED TRUSS LAYOUT

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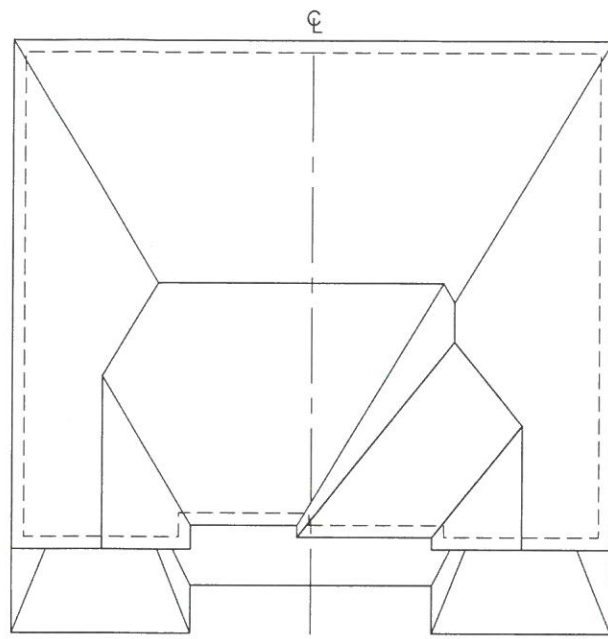
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 SIGNATURE:

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location: Ayr
 project: Legacy
 marketing name: Legacy
 model: SD-01
 scale: 3/16" = 1'0"
 project #: 17052
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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 - (LEFT)

TOTAL PERIPHERAL WALL AREA	2516.48 SF	233.78 m ²
FRONT GLAZING AREA	71.56 SF	6.65 m ²
LEFT SIDE GLAZING AREA	59.33 SF	5.51 m ²
RIGHT SIDE GLAZING AREA	0 SF	0.00 m ²
REAR GLAZING AREA	132.11 SF	12.27 m ²
TOTAL GLAZING AREA	263.00 SF	24.43 m²
TOTAL GLAZING PERCENTAGE	10.45 %	

GROSS GLAZING AREA - (RIGHT)

TOTAL PERIPHERAL WALL AREA	2519.15 SF	234.03 m ²
FRONT GLAZING AREA	71.56 SF	6.65 m ²
LEFT SIDE GLAZING AREA	0 SF	0.00 m ²
RIGHT SIDE GLAZING AREA	59.33 SF	5.51 m ²
REAR GLAZING AREA	132.11 SF	12.27 m ²
TOTAL GLAZING AREA	263.00 SF	24.43 m²
TOTAL GLAZING PERCENTAGE	10.44 %	

ROOF PLAN ELEV 'A'

PRE-FINISHED ALUMINUM RWL AND GUTTER ON PRE-FINISHED FASCIA BOARD AND VENTED SOFFIT (TYP)

1"x6" DECOR ALUM FRIEZE BOARD (TYP)

2"+6" VINYL HEADER W/ 6" VINYL SURROUNDS W/ 4" VINYL SILL (TYP)

VERTICAL BOARD & BATTEN VINYL SIDING (TYP)

6" VINYL CORNER TRIM (TYP)

MTL FLASHING BEHIND (TYP)

U/S OF GARAGE & PORCH SOFFIT

FACE BRICK (TYP)

4" PRECAST CONC BAND W/ BRICK SOLDIER COURSE BAND (TYP)

GROUND FLOOR

FIN GRADE

U/S OF FOOTING

STEPPED FOOTING (TYP)

THE FLOOR AND TRUSS LAYOUTS PROVIDED BY THE MANUFACTURER HAVE BEEN REVIEWED, APPROVED AND COORDINATED ON THE WORKING DRAWING PLANS PROVIDED BY RN DESIGN



FRONT ELEVATION ELEV 'A' (LEFT)

FRONT ELEVATION ELEV 'A' (RIGHT)

PEAK HEIGHT OF ROOF

ASPHALT SHINGLES W/ FLASHING AT VALLEYS (TYP)

MID POINT OF ROOF

TOP OF PLATE

TOP OF WINDOW

SECOND FLOOR

T/O TRANSOM/WINDOW

TOP OF DOOR

8" SQ DECOR/STRUCT COLUMN ANCHORED TO PORCH SLAB (TYP)

4" PRECAST CONC SILL (TYP)

TOP OF BAND

GROUND FLOOR

FIN GRADE

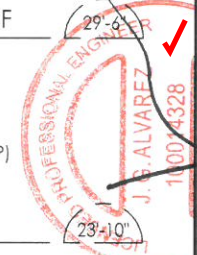
POURED CONC DOOR SILL

POURED CONC PORCH SLAB

36" X 82" EXT DOOR (TYP.)

POURED CONC FDN WALLS ON CONC STRIP FOOTING (TYP)

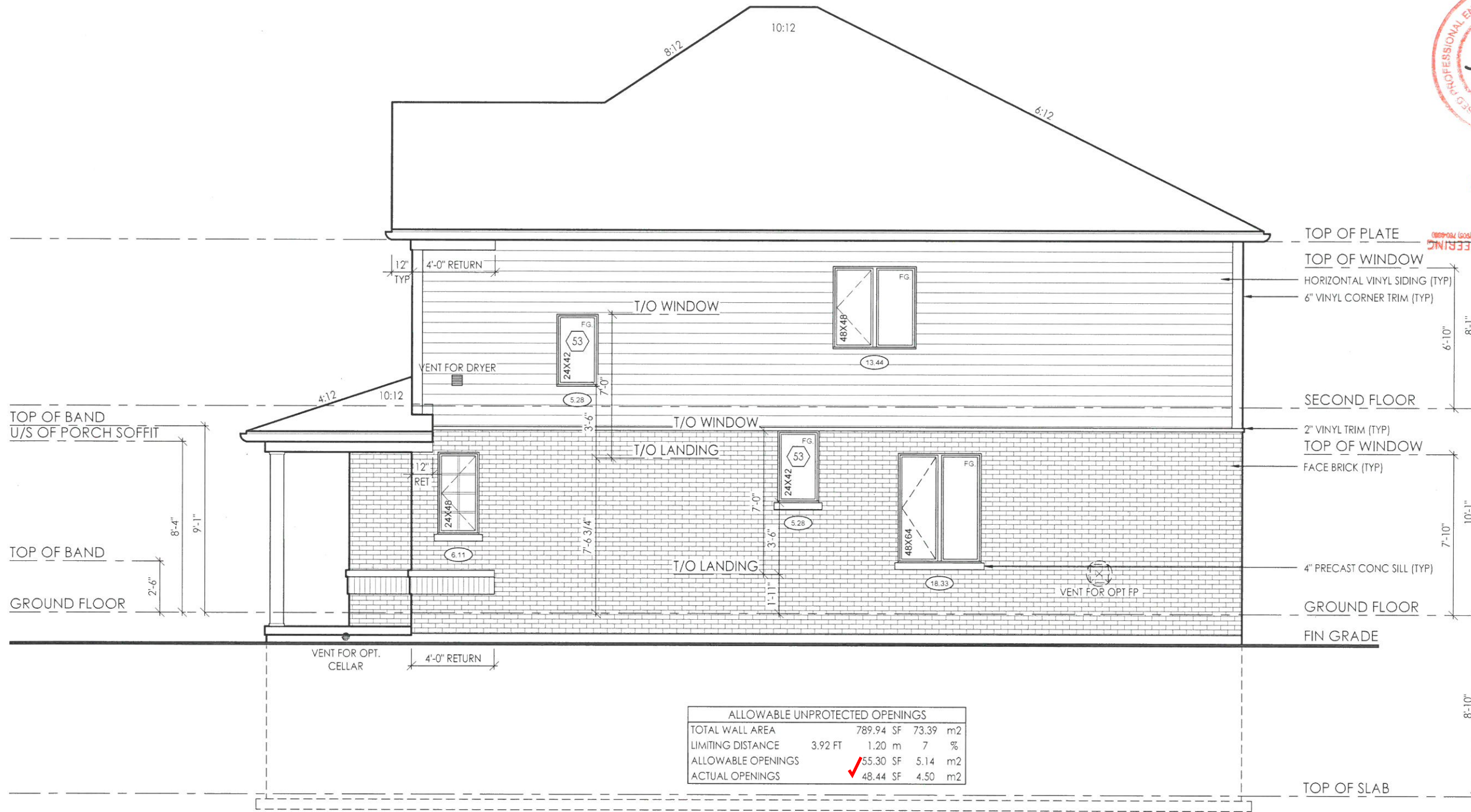
TOP OF SLAB



client	Tice River Homes
project	Legacy
location	AYR
scale	3/16" = 10"
model	SD-01
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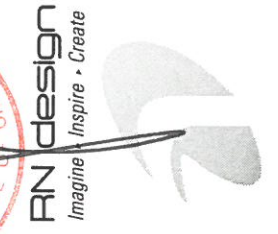
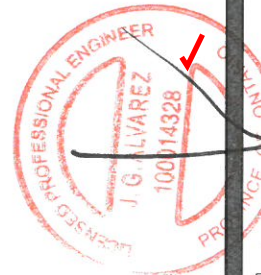
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QUALIFIED DESIGNER BCIN: 47745
 FIRM BCIN: 26995
 DATE: *J. Moreno*
 SIGNATURE:



ALLOWABLE UNPROTECTED OPENINGS			
TOTAL WALL AREA	789.94 SF	73.39	m ²
LIMITING DISTANCE	3.92 FT	1.20 m	7 %
ALLOWABLE OPENINGS	55.30 SF	5.14	m ²
ACTUAL OPENINGS	48.44 SF	4.50	m ²

RIGHT SIDE ELEVATION 'A'



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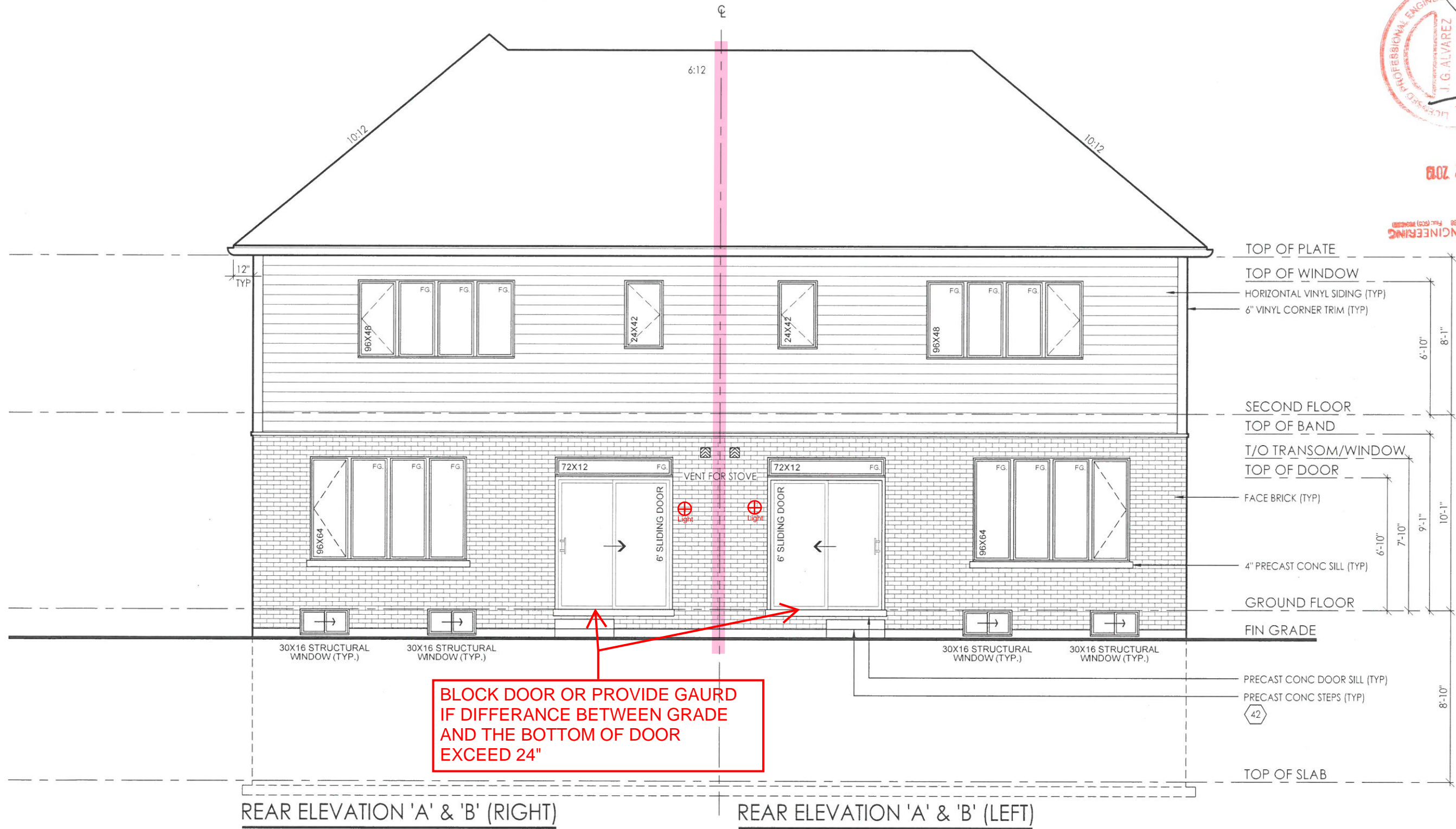
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Client: Tice River Homes
Project: Legacy

#	revisions	date				dwn	chk	#	revisions
		23-FEB-18	AK	ES	23-APR-18				
1	ISSUED FOR CLIENT REVIEW								
2	REVISED PER TRUSS COORDINATION								
3	REVISED PER ENGINEER COMMENTS & ISSUED FOR PERMIT								
5	REISSUED FOR PERMIT								

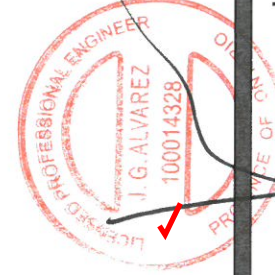
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QUALIFIED DESIGNER BCIN: 47245
FIRM BCIN: 26995
DATE: *J.M.*
SIGNATURE:



REAR ELEVATION 'A' & 'B' (RIGHT)

REAR ELEVATION 'A' & 'B' (LEFT)



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location AYR
marking name
date dwn chk

Client Tice River Homes
project Legacy

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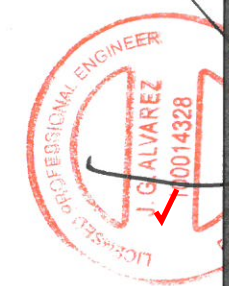
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ALLOWABLE UNPROTECTED OPENINGS			
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LIMITING DISTANCE	3.92 FT	1.20 m	7 %
ALLOWABLE OPENINGS		55.30 SF	5.14 m2
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LEFT SIDE ELEVATION 'A'



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#	revisions	date	dwn	chk	#	revisions									
						AK	ES	LO	JM	WU	JM	ES			
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QUALIFIED DESIGNER BCIN: 47245
FIRM BCIN: 26995
DATE: [Signature]
SIGNATURE:

CONSTRUCTION NOTES: - TOWNS & SEMIS

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

1 TYPICAL STRIP FOOTING: (EXTERIOR WALLS)

O.B.C. 9.15.3.5.
-FITG. TO EXTEND MIN. 4'-0" (1200mm) BELOW GRADE
BRICK VENEER -1 STOREY - 13" X 4" (330mm X 100mm)

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)

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.

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.
-DAMP PROOF BELOW SLAB W/ MIN. 0.006" (0.15mm) POLYETHYLENE OR TYPE 'S' ROLL ROOFING W/ 4" (100mm) LAPPED JOINTS.

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.
-DAMP PROOF BELOW SLAB W/ MIN. 0.006" (0.15mm) POLYETHYLENE OR TYPE 'S' ROLL ROOFING W/ 4" (100mm) LAPPED JOINTS.

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

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.

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" (152mm X 100mm X 6.35mm) STEEL BTM. PLATE

9 WOOD COLUMN:

OBC 9.17.4.1, 9.17.4.2, & 9.17.4.3.
-5 1/2" x 5 1/2" (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.

14 WALL ASSEMBLIES:

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'-1" (1200mm) & MAX. SUPPORTED HEIGHT OF 7'-0" (2150mm) MEASURED FROM GRADE TO FINISHED BASEMENT FLOOR.

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 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)

14a 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)

15 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.)
-WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.

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.

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-COMBUSTIBLE SIDING OR STUCCO AS PER ELEVATIONS (REFER TO MANUFACTURER'S SPECIFICATIONS).

15b FRAME WALL CONSTRUCTION @ GARAGE:

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.)
-WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.

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.

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-COMBUSTIBLE SIDING OR STUCCO AS PER ELEVATIONS (REFER TO MANUFACTURER'S SPECIFICATIONS).

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

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.

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

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.

17 INTERIOR STUD WALLS:

O.B.C. T.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/

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.

19a 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

20 PARTY WALL - FOUNDATION:

O.B.C. 9.15.4.2.
-7/8" (200mm) SOLID CONC. FOUNDATION WALL @ 2200psi (15MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS

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" (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

CLIENT SPECIFIC REVISIONS
ONTARIO REGULATION 332/12 O.B.C. AMENDMENT O. REG. 139/17 JAN 1, 2018

I, JORGE MORENO 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: 47245
FIRM BCIN: 26995
DATE: [Signature]

SIGNATURE:

client Tice River Homes

project Legacy

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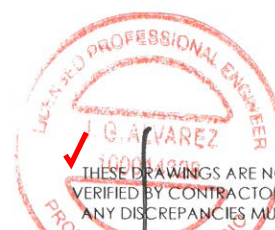
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model SD-01

scale 3/16" = 1'0" project # 17052

page D1

PICCO ENGINEERING
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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 ENCR OACH 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-12.3.1.1.2.A.]
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE WITH O.B.C. 9.25.3. & 9.25.9.

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 ALUMINIUM 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.)

CLIENT SPECIFIC REVISIONS

I, JORGE MORENO 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: 47245
FIRM BCIN: 26995
DATE:

SIGNATURE:

client
Tice River Homes

project
Legacy

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marketing name

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scale
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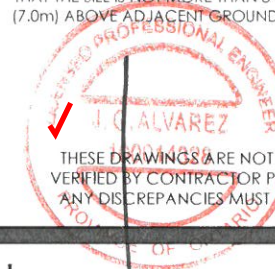
project #
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OCT 2 2019



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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.
- MASONRY VENEER SURROUND W/ PRECAST CONCRETE CAP. REFER TO ELEVATION DRAWINGS FOR PIER SIZE AND CAP HEIGHT.
- 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.
- MASONRY PIER TO BE CONSTRUCTED SOLID W/ PRECAST CONCRETE CAP. REFER TO ELEVATION DRAWINGS FOR PIER SIZE AND CAP HEIGHT.
- 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/ R20 (RSI 3.52) CONTINUOUS INSULATION (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

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)

53 WINDOW GUARDS:

- @ STAIRS, LANDINGS & RAMPS - OBC 9.8.8.1.(8)
- WINDOW SILL AT 3'-0" (900mm) OR GREATER DOES NOT REQUIRE GUARDS
- @ FLOORS - OBC 9.8.8.1.(6)
- WINDOWS LESS THAN 1'-7" (480mm) ABOVE FLOORS WHERE ADJACENT GRADE IS GREATER THAN 5'-11" (1800mm) REQUIRE A GUARD PER OBC 9.8.8.2.
- OR -
- WINDOW TO BE NON-OPERABLE AND DESIGNED TO WITHSTAND LATERAL LOADS PER OBC 9.8.8.1.(8)(b)

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.

WATERPROOF WALLS IN BATHROOMS:

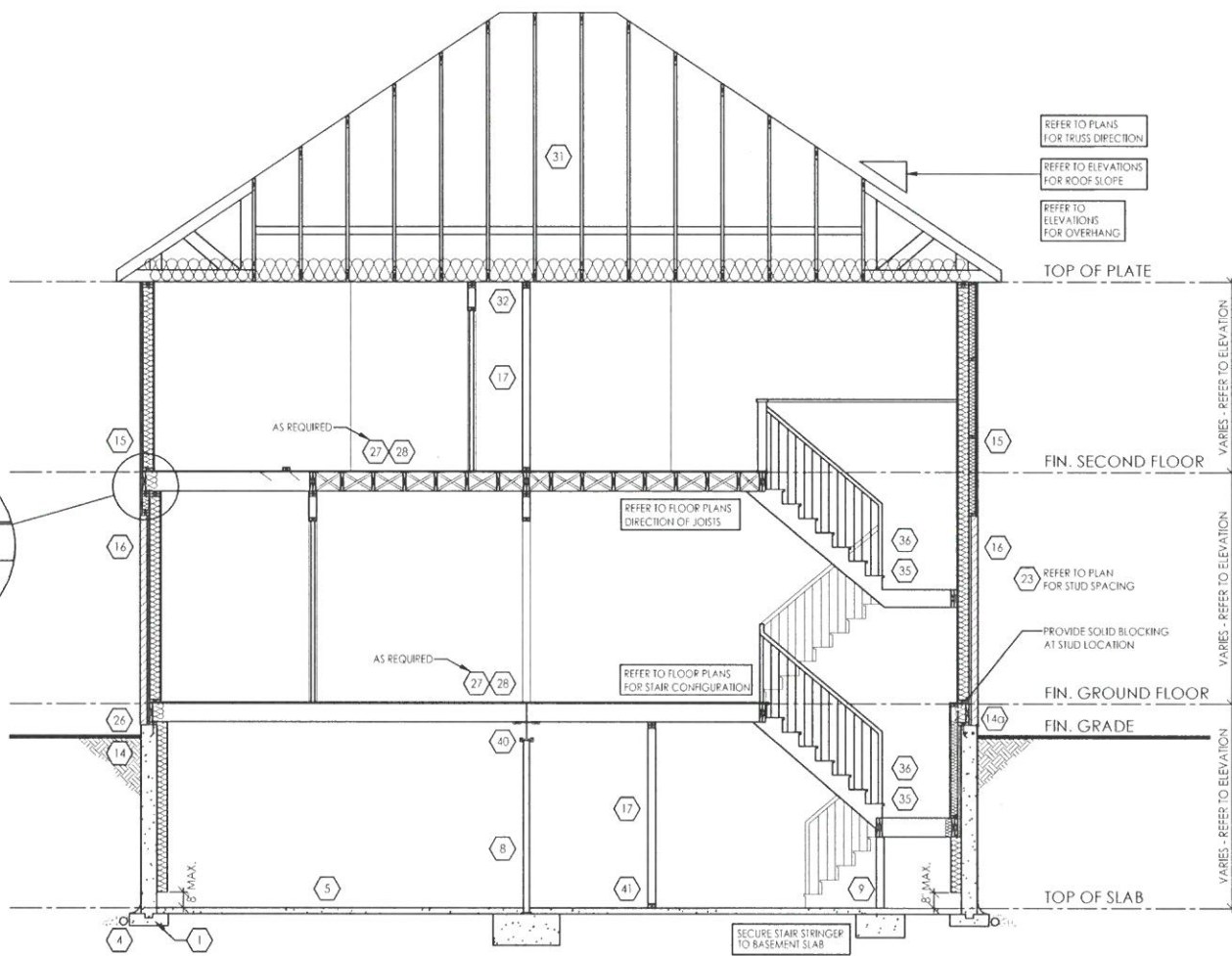
- REQUIRED AS PER OBC 9.29.2.1.

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%

DRAIN WATER HEAT RECOVERY:

- DWHR UNITS TO BE INSTALLED AS PER OBC SB-12 3.1.1.1.(22) & 3.1.1.12. SENTENCES (1) TO (6)
- DWHR ARE REQUIRED IN ALL DWELLING UNITS TO RECEIVE DRAIN WATER FROM ALL SHOWERS OR FROM AT LEAST 2 SHOWERS WHERE THERE ARE 2 OR MORE SHOWERS PROVIDED THERE IS A CRAWL SPACE OR STOREY BELOW THE SHOWERS.



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

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CLIENT SPECIFIC REVISIONS

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
 - WD2 4/2" X 8" SPR
 - WD3 5/2" X 8" SPR
 - WD4 3/2" X 10" SPR
 - WD5 4/2" X 10" SPR
 - WD6 5/2" X 10" SPR
 - WD7 3/2" X 12" SPR
 - WD8 4/2" X 12" SPR
 - WD9 5/2" X 12" SPR

- LINTELS**
- L1 2/2" X 8" SPR
 - L3 2/2" X 10" SPR
 - L5 2/2" X 12" SPR
 - L7 3-1/2" X 3-1/2" X 1/4" L
 - L8 4-7/8" X 3-1/2" X 1/4" L
 - L9 4" X 3-1/2" X 1/4" L
 - L10 4-7/8" X 3-1/2" X 5/16" L
 - L11 4-7/8" X 3-1/2" X 3/8" L
 - L12 5-7/8" X 3-1/2" X 5/16" L
 - L13 5-7/8" X 3-1/2" X 3/8" L
 - L14 5-7/8" X 3-1/2" X 1/2" L
 - L15 5-7/8" X 4" X 1/2" L
 - L16 7-1/8" X 4" X 3/8" L
 - L17 7-1/8" X 4" X 1/2" 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
- DOUBLE JOIST
- PRESSURE TREATED LUMBER
- GIRDER TRUSS
- ABOVE FINISHED FLOOR
- BEAM BY FLOOR MANUF
- FLUSH
- DROPPED
- REPEAT SAME JOIST SIZE
- UNDER SIDE
- FIXED GLAZING
- GLASS BLOCK
- BLACK GLASS
- FLOOR DRAIN
- SOLID BEARING (ICI BE SAME WIDTH AS SUPPORTED MEMBER)
- POINT LOAD
- FLAT ARCH
- 2 STORY WALL
- EXT. LIGHT FIXTURE (WALL MOUNTED)
- HYDRO METER
- GAS METER

I, JORGE MORENO 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: 47245
FIRM BCIN: 26995
DATE: [Signature]

SIGNATURE:

client
Tice River Homes

project
Legacy

location
Ayr

marketing name

RN design
Imagine • Inspire • Create

model
SD-01

scale
3/16" = 1'0"

project #
17052

page

D3

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	23-FEB-18	KK	ES					
2	REVISED PER TRUSS COORDINATION	23-APR-18	LO	JM					
3	REVISED PER ENGINEER COMMENTS & ISSUED FOR PERMIT	20-JUL-18	WU	JM					
5	RE-ISSUED FOR PERMIT	18-OCT-19	ES	ES					