16 Ridge Road

New Construction Residence

16 Ridge Road Norton, MA 02766



IECC TABLE 402.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT						
ASSEMBLY	ASSEMBLY REQUIREMENT ACTUAL					
WOOD FRAME CAVITY WALL ¹	R=20	R=21				
WOOD FRAME FLOOR ¹	R=30	R=30				
WOOD FRAME CEILING 1 2 3	R=49	R=49				
WINDOWS	U=0.300	U≤0.300				
DOORS	U=0.300	U≤0.300				
BASEMENT WALLS	15/19 4	15/19 ⁴				

 1 APPENDIX 115AA - R401.5 PRESCRIPTIVE OPTION FOR ALTERATIONS, RENOVATIONS AND REPAIRS. ENVELOPE INSULATION SHALL MEET OR EXCEED IECC 2015 REQUIREMENTS (CHAPTER 4 SECTION 402) FOR CLIMATE ZONE 5, OR FULLY FILL EXISTING CAVITIES WITH INSULATING MATERIAL WHICH MEETS OR EXCEEDS AN R-VALUE OF R=3.5/INCH

² R402.2.1 CEILINGS WITH ATTIC SPACES.

WHEN SECTION R402.1.1 WOULD REQUIRE R-38 IN THE CEILING, INSTALLING R-30 OVER 100 PERCENT OF THE CEILING AREA REQUIRING INSULATION SHALL BE DEEMED TO SATISFY THE REQUIREMENT FOR R-38 WHEREVER THE FULL HEIGHT OF UNCOMPRESSED R-30 INSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EAVES. SIMILARLY, R-38 SHALL BE DEEMED TO SATISFY THE REQUIREMENT FOR R-49 WHEREVER THE FULL HEIGHT OF UNCOMPRESSED R-38 INSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EAVES. THIS REDUCTION SHALL NOT APPLY TO THE U-FACTOR ALTERNATIVE APPROACH IN SECTION R402.1.3 AND THE TOTAL UA ALTERNATIVE IN SECTION R402.1.4.

$^{\rm 3}$ R402.2.2 CEILINGS WITHOUT ATTIC SPACES.

WHERE SECTION R402.1.1 WOULD REQUIRE INSULATION LEVELS ABOVE R-30 AND THE DESIGN OF THE ROOF/CEILING ASSEMBLY DOES NOT ALLOW SUFFICIENT SPACE FOR THE REQUIRED INSULATION, THE MINIMUM REQUIRED INSULATION FOR SUCH ROOF/CEILING ASSEMBLIES SHALL BE R-30. THIS REDUCTION OF INSULATION FROM THE REQUIREMENTS OF SECTION R402.1.1 SHALL BE LIMITED TO 500 SQUARE FEET (46 M2) OR 20 PERCENT OF THE TOTAL INSULATED CEILING AREA, WHICHEVER IS LESS. THIS REDUCTION SHALL NOT APPLY TO THE U-FACTOR ALTERNATIVE APPROACH IN SECTION R402.1.3 AND THE TOTAL UA ALTERNATIVE IN SECTION R402.1.4.

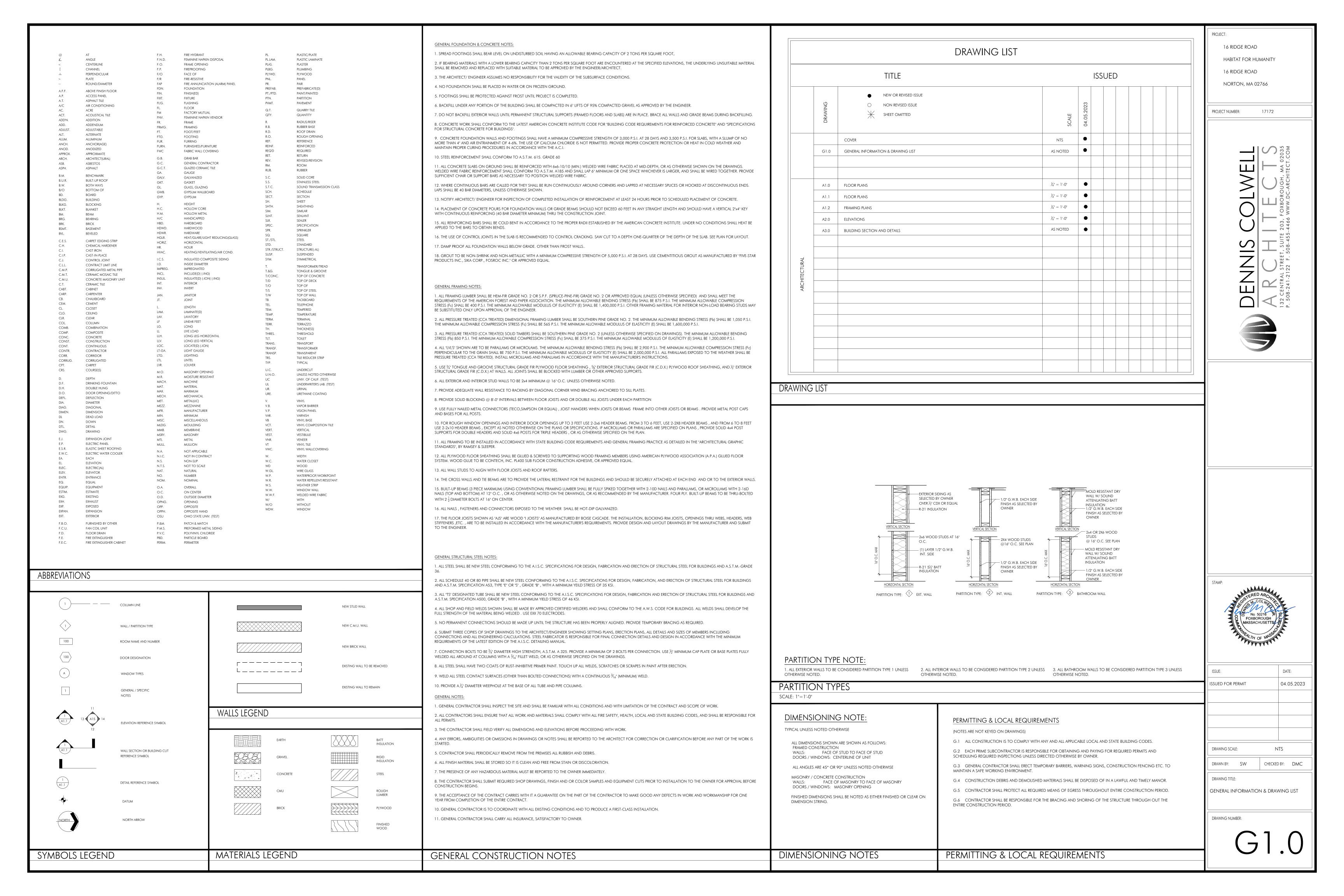
⁴ TABLE R402.1.2 BASEMENT R-VALUE

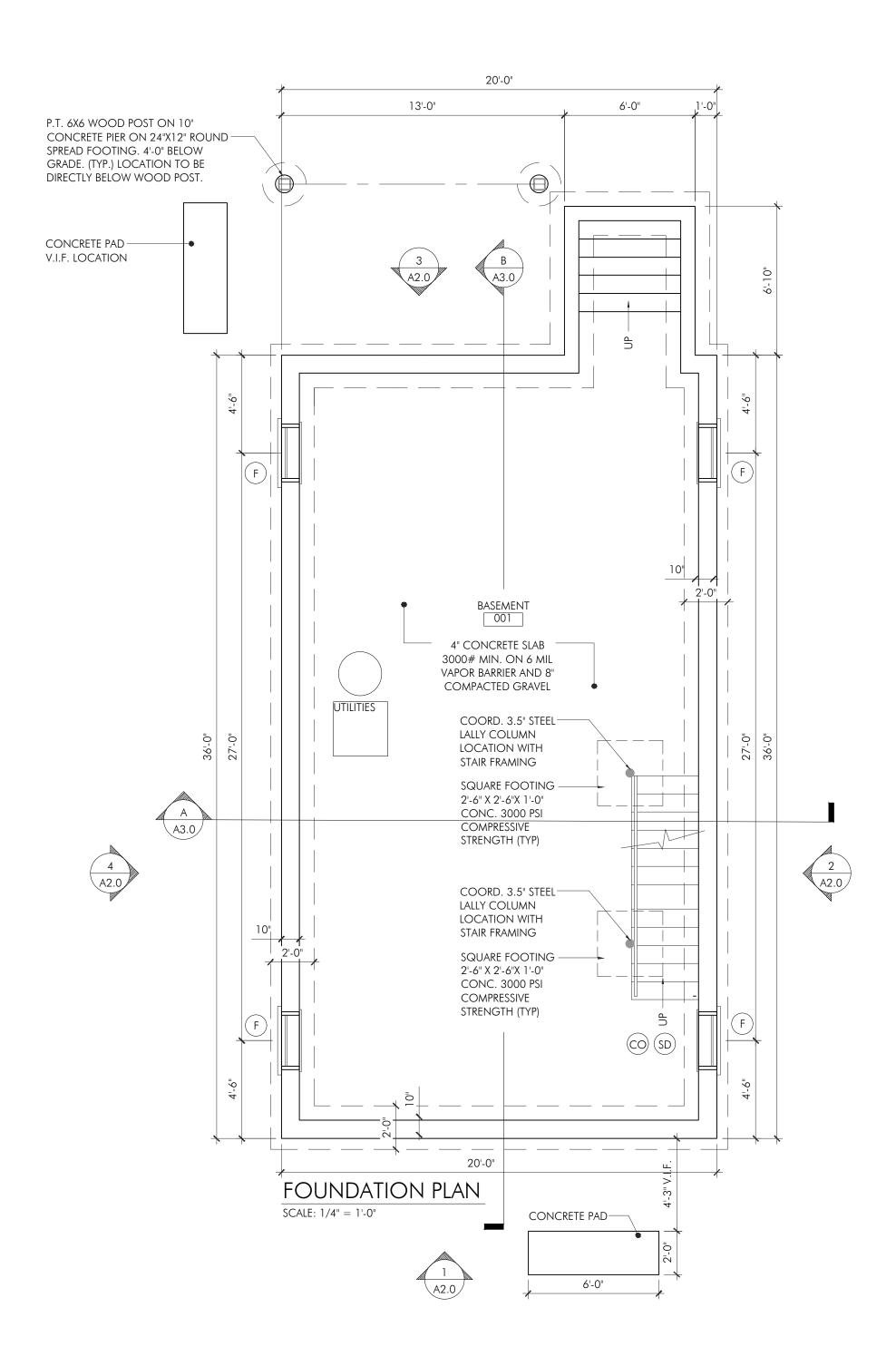
"15/19" MEANS R-15 CONTINUOUS INSULATION ON THE INTERIOR OR EXTERIOR OF THE HOME OR R-19 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL. "15/19" SHALL BE PERMITTED TO BE MET WITH R-13 CAVITY INSULATION ON THE INTERIOR OF THE BASEMENT WALL PLUS R-5 CONTINUOUS INSULATION ON THE INTERIOR OR EXTERIOR OF THE HOME

G.C. TO VERIFY WITH CODE OFFICIAL TO CONFIRM ADDITIONAL ENERGY CODE COMPLIANCE REQUIREMENTS



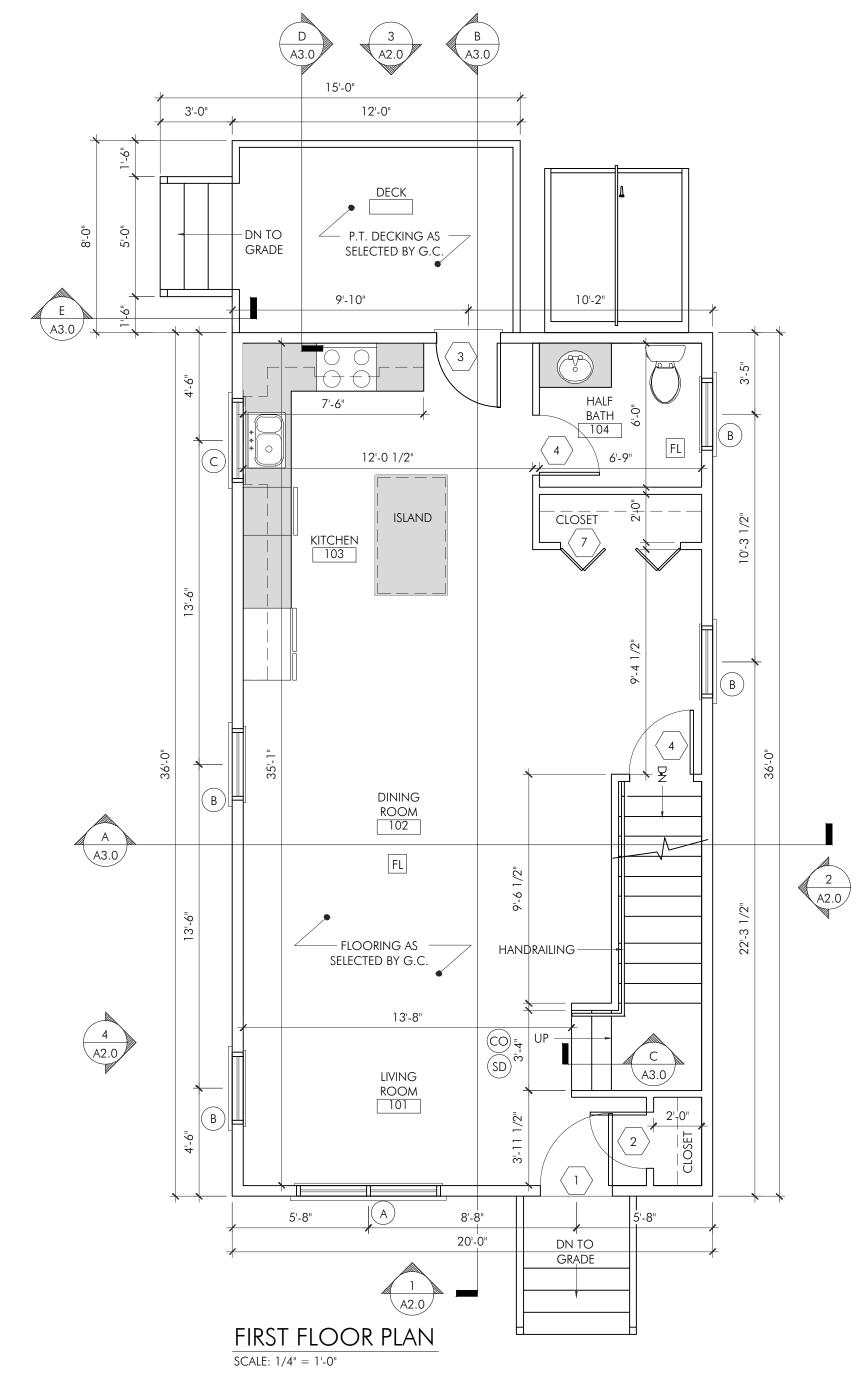






DOOR SCHEDULE							
I.D.	QT.*	DIMENSION	ROUGH OPEN'G*	MANUFACTERER	MATERIAL	DESCRIPTION	LOCATION
1	1	3'-0"X6'-8"	AS VERIFIED BY G.C.	AS SELECTED BY G.C.	THERMA-TRU	ENTRY DOOR	LIVING ROOM 101
2	1	2'-4"X6'-8"	2'-6 ½" X 6'-10 ½"	BROSCO	WOOD	6-PANEL SMOOTH COLONIAL	LIVING ROOM 101
3	1	2'-8"X6'-8"	AS VERIFIED BY G.C.	AS SELECTED BY G.C.	THERMA-TRU	ENTRY DOOR	KITCHEN 103
4	6	2'-6"X6'-8"	2'-8 ½" X 6'-10 ½"	BROSCO	WOOD	6-PANEL SMOOTH COLONIAL	various locations
5	3	4'-0" BIFOLD	AS VERIFIED BY G.C.	BROSCO	WOOD	BIFOLD CLOSET DOORS	various locations
6	1	3'-0" BIFOLD	AS VERIFIED BY G.C.	BROSCO	WOOD	BIFOLD CLOSET DOORS	MASTER BEDROOM 202
7	1	5-0" BIFOLD	AS VERIFIED BY G.C.	BROSCO	WOOD	BIFOLD CLOSET DOORS	KITCHEN 103
8	-	NOT USED	-	-	-	-	-

*ALL QUANTITIES TO BE VERIFIED BY G.C. BEFORE ORDERING
*ALL ROUGH OPENINGS TO BE VERIFIED IN FIELD BEFORE ORDERING
*FIRE RATED DOOR B-LABEL 90 MINUTES



CO CARBON MONOXIDE DETECTOR

SD) SMOKE DETECTOR (PHOTO ELECTRIC)

HD 135 DEG RATE OF RISE HEAT DETECTOR

FL FAN LIGHT

	WINDOW SCHEDULE							
I.D.	QT.	MODEL#	ROUGH OPENING	MANUFACTURER	MATERIAL	DESCRIPTION	LOCATION	PATTERN
А	1	3254-2	V.I.F.	PELLA ENCOMPASS	VINYL	DOUBLE HUNG	LIVING ROOM 101	У
В	10	3254	3'-2" X 4'-6"	PELLA ENCOMPASS	VINYL	DOUBLE HUNG	various locations	И
С	1	3241	3'-2" X 3'-6"	PELLA ENCOMPASS	VINYL	DOUBLE HUNG	KITCHEN 103	У
D	-	NOT USED	-	-	-	-	-	-
E	1	2424	2'-0" X 2'-0"	PELLA 250	VINYL	AWNING	BATHROOM 205	У
F	4	AS SELECTED BY G.C.	V.I.F.	AS SELECTED BY G.C.	VINYL	HOPPER	BASEMENT 100	Х

*ALL QUANTITIES TO BE VERIFIED BY G.C. BEFORE ORDERING
*ALL ROUGH OPENINGS TO BE VERIFIED IN FIELD BEFORE ORDERING
CONTACT ERIC BROWN FOR ALL WINDOW INQUIRIES

P. 508326.6397 E. EBROWN@PELLABOSTON.COM

PROJECT:

16 RIDGE ROAD

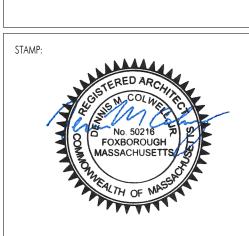
HABITAT FOR HUMANITY

16 RIDGE ROAD

NORTON, MA 02766

PROJECT NUMBER: 17172





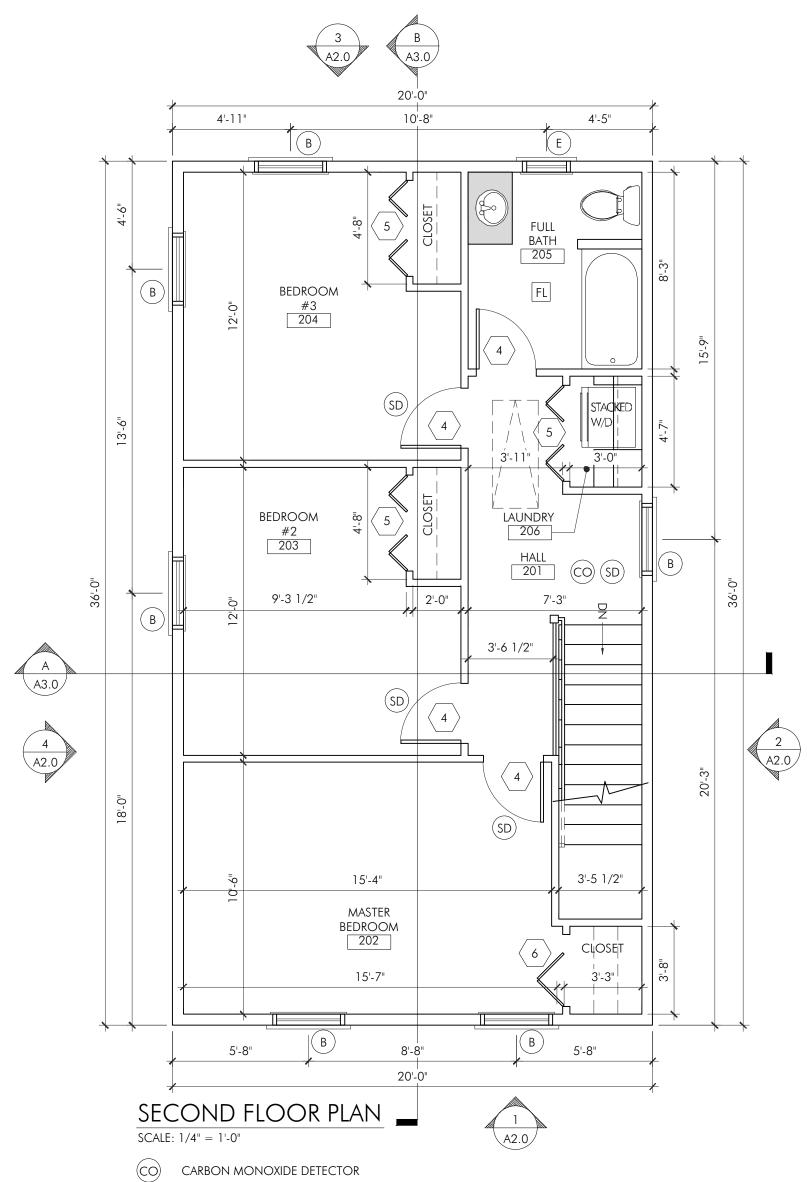
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DRAWN BY: SW	CHECKED	BY:	DMC

FLOOR PLANS

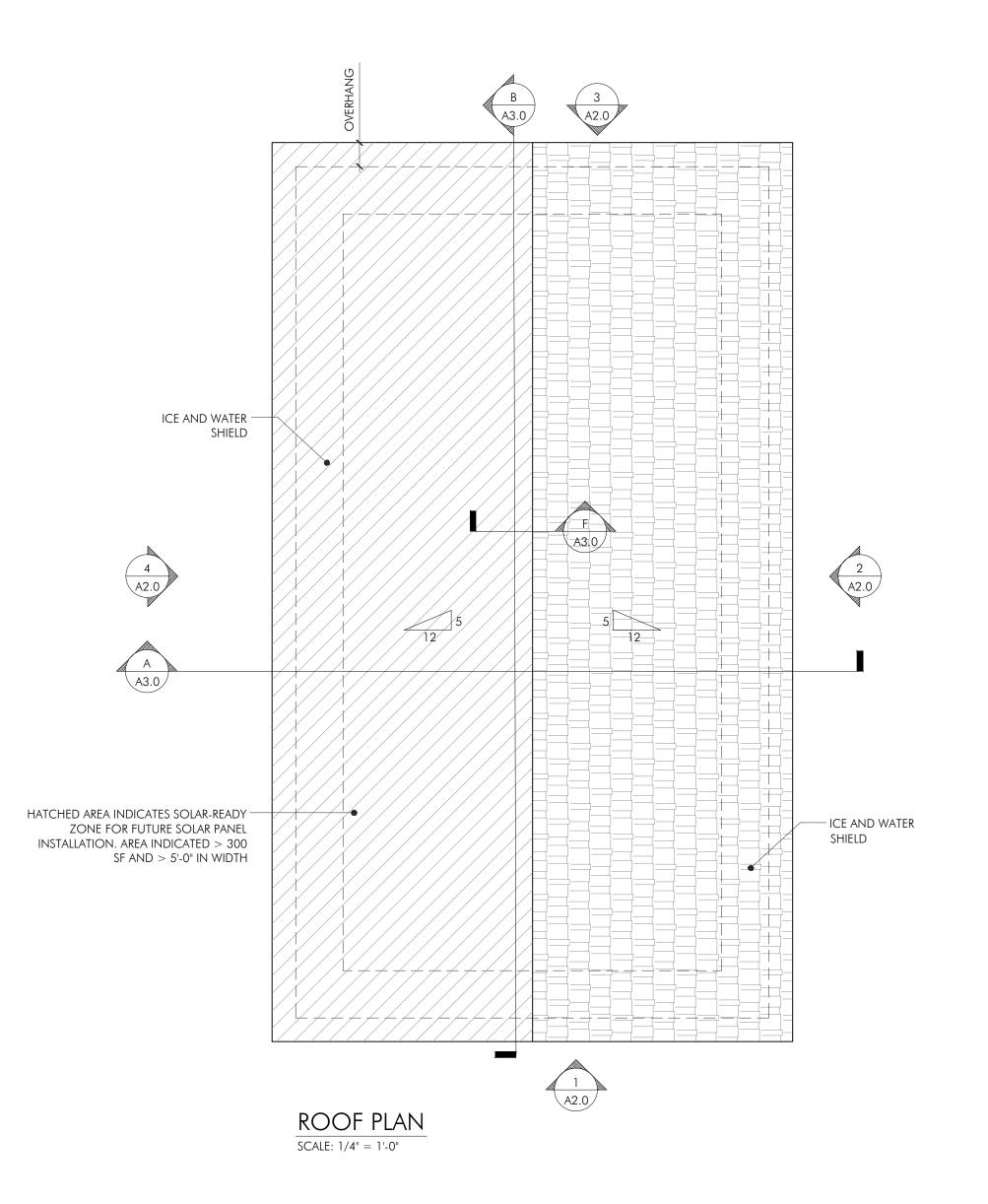
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DRAWING TITLE:

A1.0



- SD SMOKE DETECTOR (PHOTO ELECTRIC)
- HD 135 DEG RATE OF RISE HEAT DETECTOR
- FL FAN LIGHT



PROJECT: 16 RIDGE ROAD HABITAT FOR HUMANITY 16 RIDGE ROAD NORTON, MA 02766

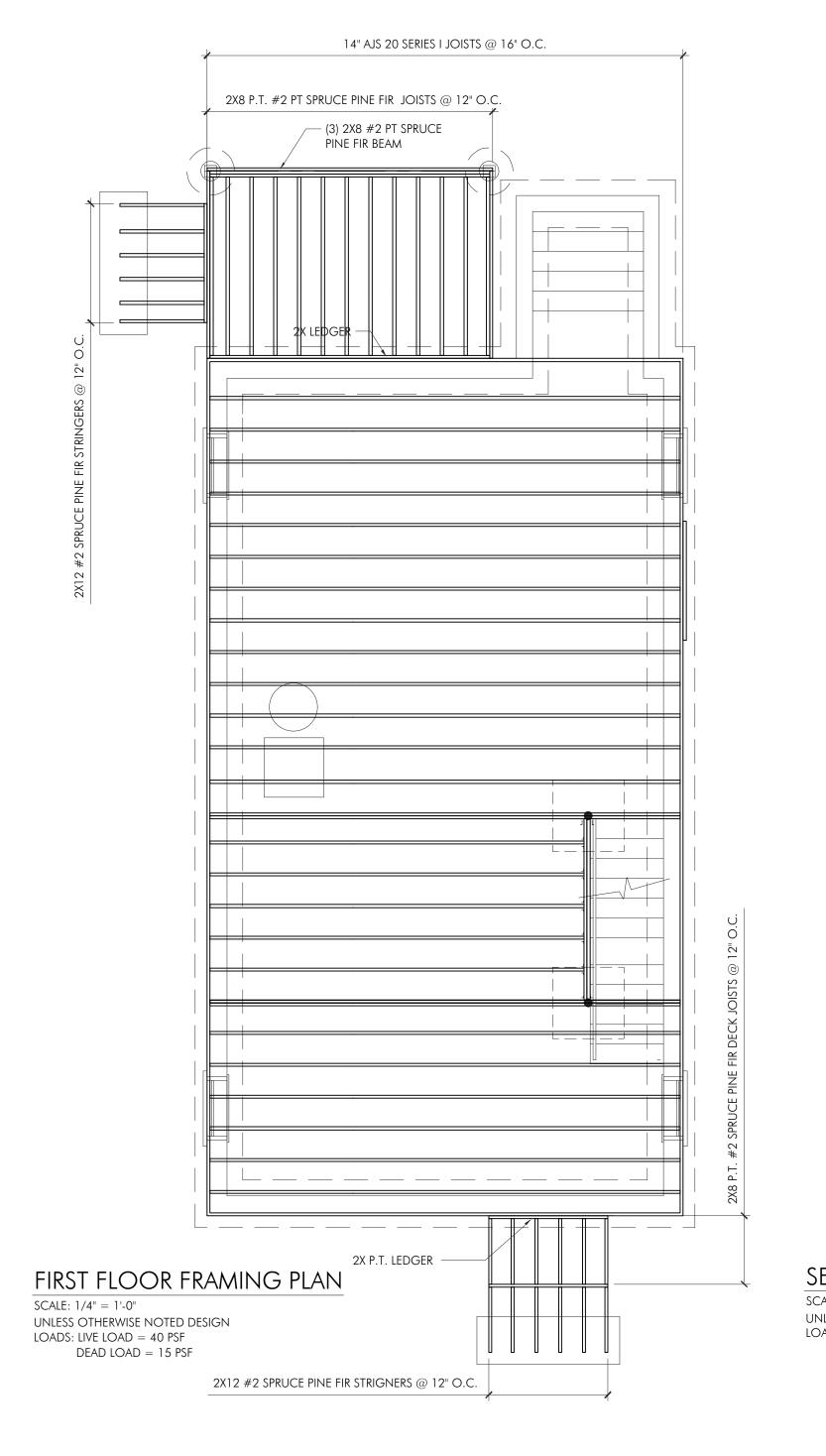
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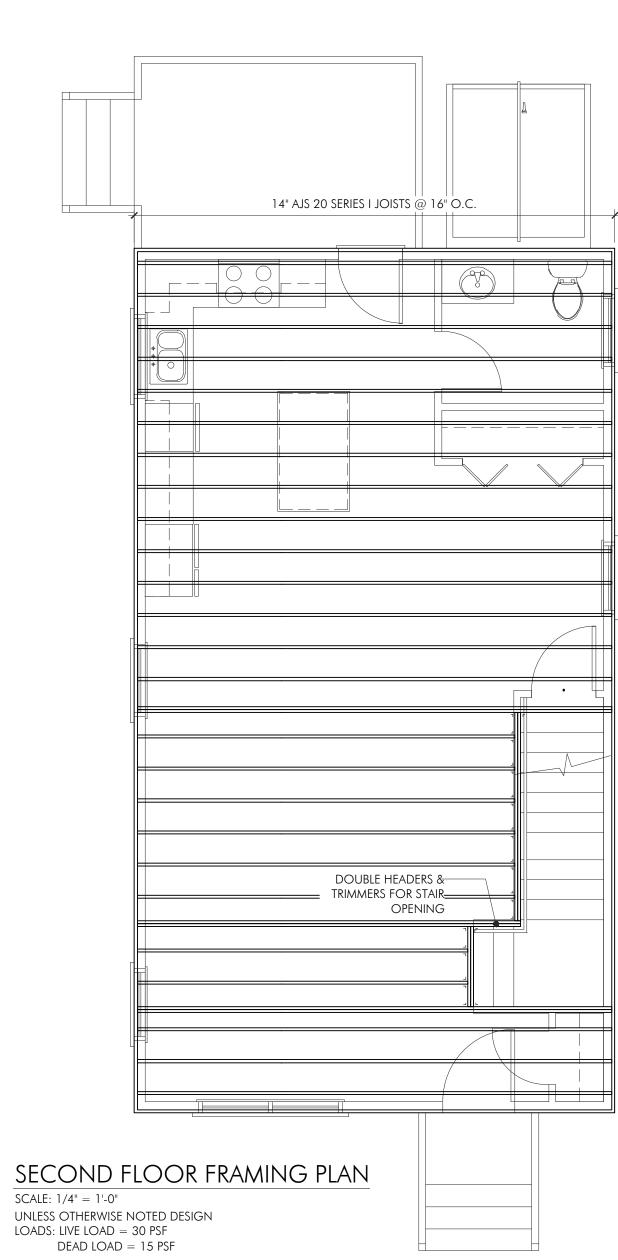


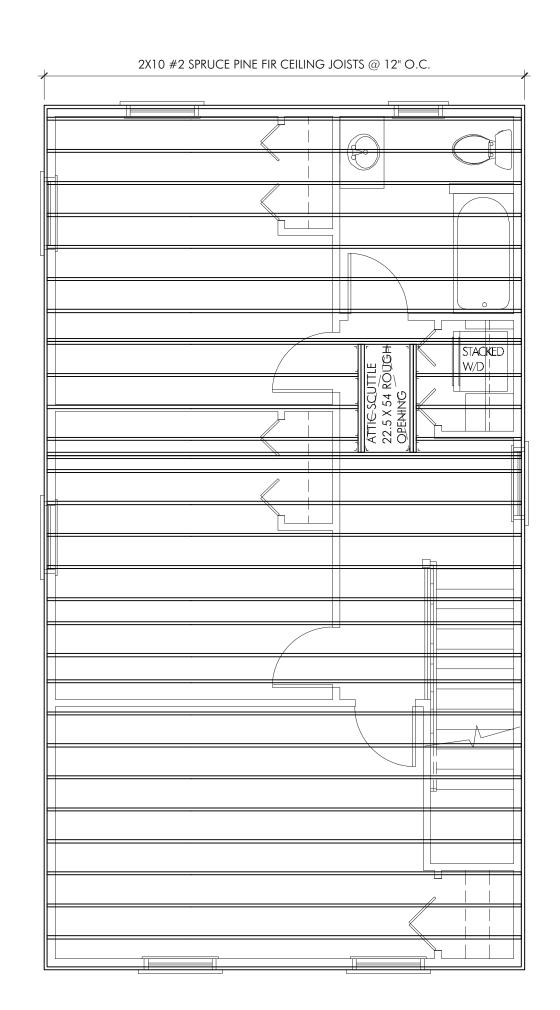
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ISSUED FOR	PERMIT		04.0	05.2023
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DRAWING TITLE: FLOOR PLANS

DRAWING NUMBER:





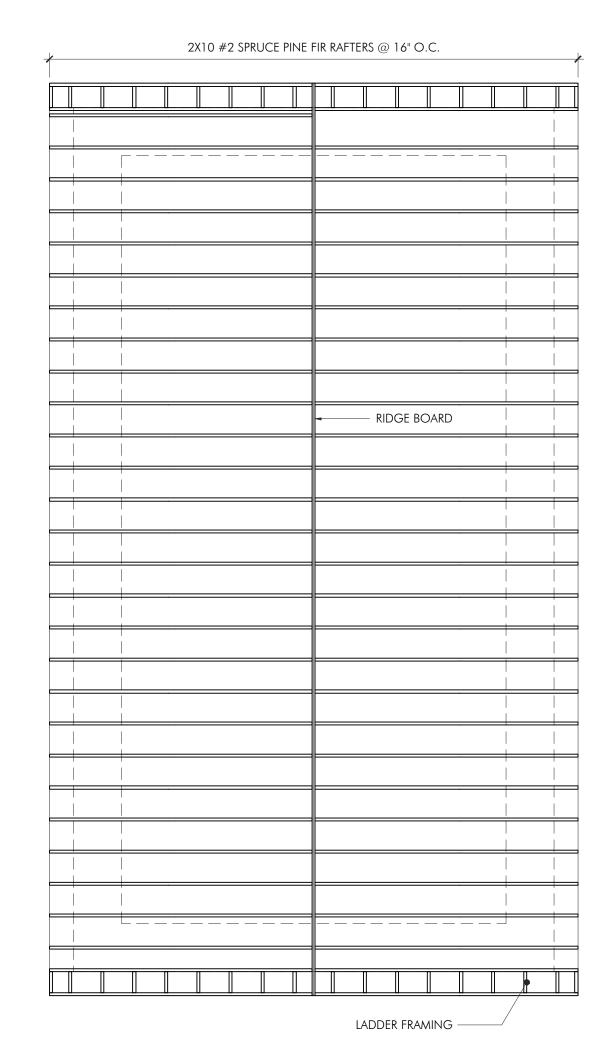


CEILING FRAMING PLAN SCALE: 1/4" = 1'-0" UNLESS OTHERWISE NOTED DESIGN

SCALE: 1/4" = 1'-0"

UNLESS OTHERWISE NOTED DESIGN
LOADS: LIVE LOAD = 20 PSF

DEAD LOAD = 10 PSF



ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

UNLESS OTHERWISE NOTED DESIGN
LOADS: LIVE LOAD = 35 PSF
DEAD LOAD = 15 PSF

PROJECT:

16 RIDGE ROAD

HABITAT FOR HUMANITY

16 RIDGE ROAD

NORTON, MA 02766

PROJECT NUMBER: 17172

DENNIS COLWELL

A R C H I T E C T S

132 CENTRAL STREET, SUITE 203, FOXBOROUGH, MA 02035
P. 508-241-2122 F. 508-455-4466 WWW.DC-ARCHITECT.COM



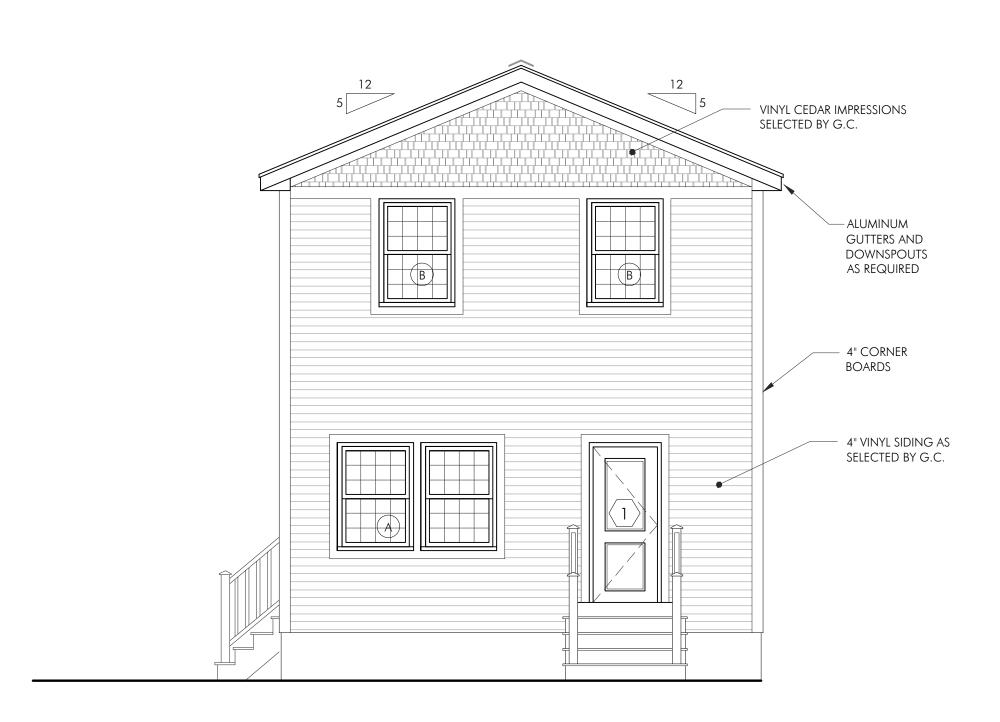


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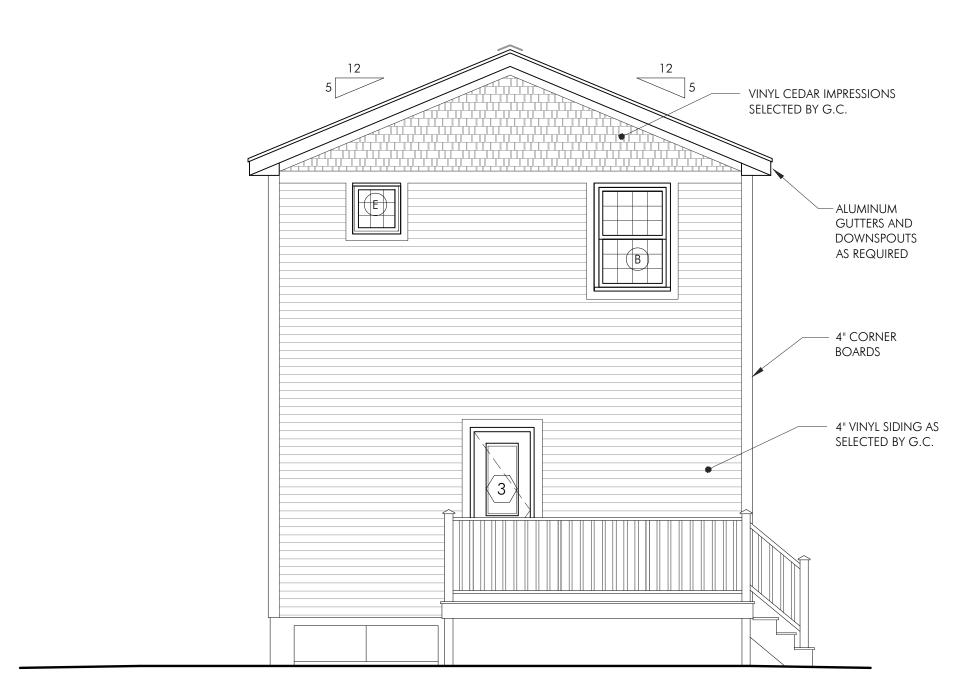
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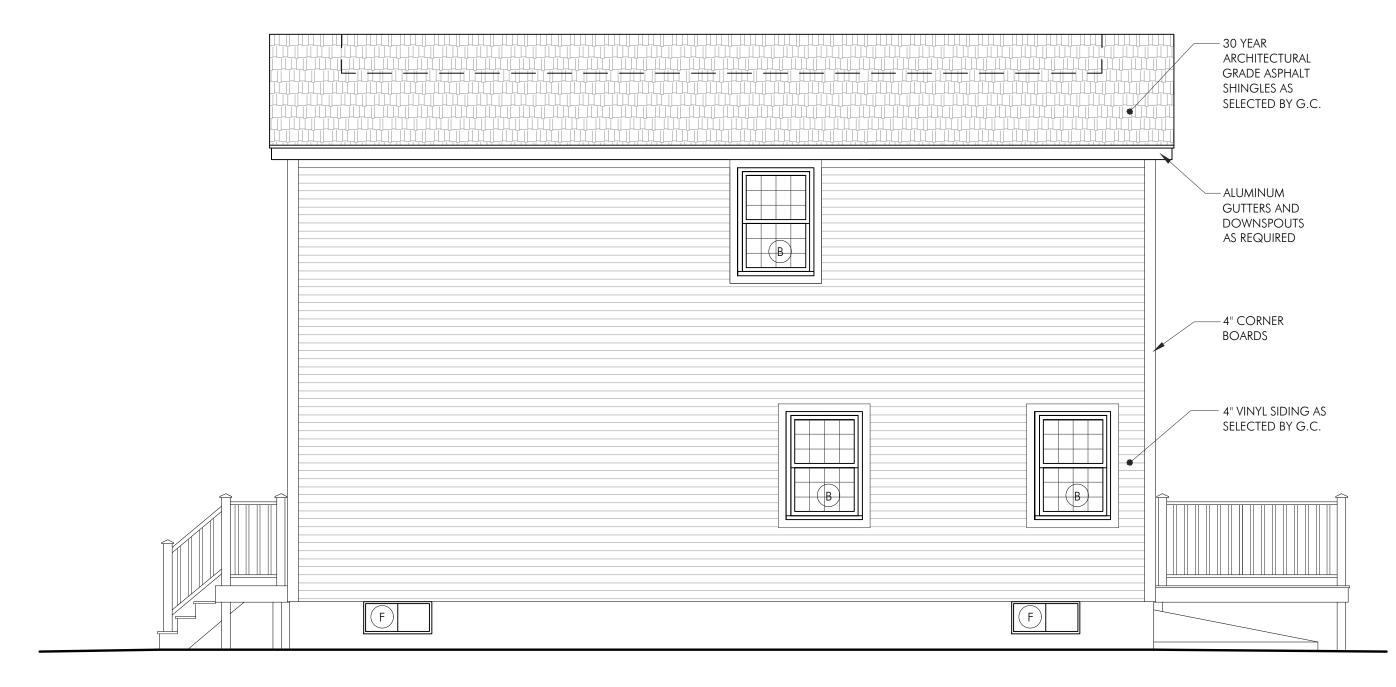
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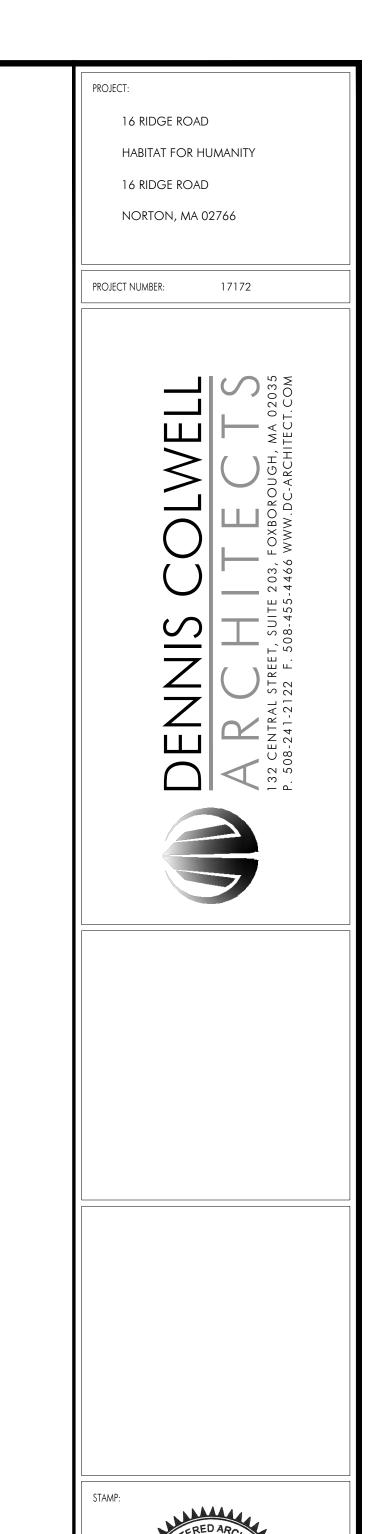
RIGHT ELEVATION

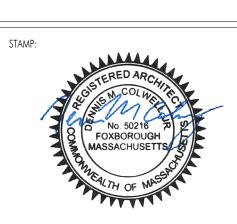
SCALE: 1/4" = 1'-0"



LEFT ELEVATION

SCALE: 1/4" = 1'-0"





ISSUE:		DATE:
ISSUED FOR PERMIT		04.05.2023
DRAWING SCALE:	1,	/4" = 1'-0"
DRAWN BY: SW	CHECKED	BY: DMC
DRAWING TITLE:		
ELEVATIONS		

A2.0

DRAWING NUMBER:

