

5 Chester Ct.

New Construction Residence

5 Chester Ct.

Taunton, MA 02780



IECC TABLE 402.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT

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.

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



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Table of abbreviations for construction materials and symbols.

Table of abbreviations for electrical and plumbing symbols.

Table of abbreviations for mechanical and structural symbols.

ABBREVIATIONS

Table of symbols and their descriptions for construction drawings.

Table of materials and their hatching patterns for construction drawings.

- GENERAL FOUNDATION & CONCRETE NOTES: 1. SPREAD FOOTINGS SHALL BEAR LEVEL ON UNDISTURBED SOIL... 2. IF BEARING MATERIALS WITH A LOWER BEARING CAPACITY THAN 2 TONS PER SQUARE FOOT...

GENERAL STRUCTURAL STEEL NOTES:

- 1. ALL STEEL SHALL BE NEW STEEL CONFORMING TO THE A.I.S.C. SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND A.S.T.M.-GRADE 36.

DRAWING LIST table showing title, issued status, scale, and drawing details for ARCHITECTURAL drawings.

DRAWING LIST

Partitions, Dimensioning, and Permitting sections including Partition Type Note, Dimensioning Note, and Permitting & Local Requirements.

PROJECT: NEW HOUSE CONSTRUCTION

HABITAT FOR HUMANITY

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PROJECT NUMBER: 24119

COLWELL GROUP logo and contact information.

STAMP:

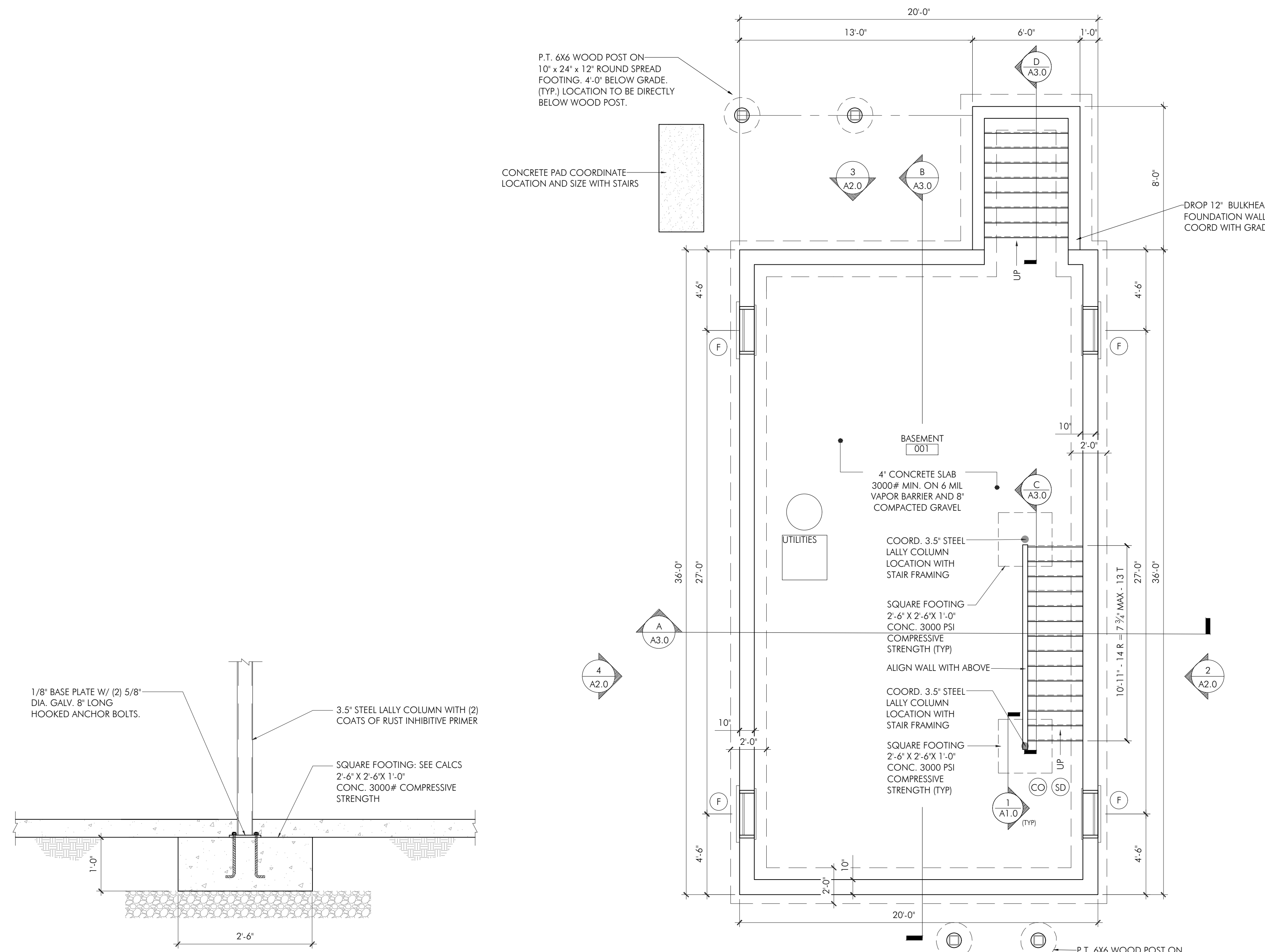
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Table for DRAWING SCALE and CHECKED BY information.

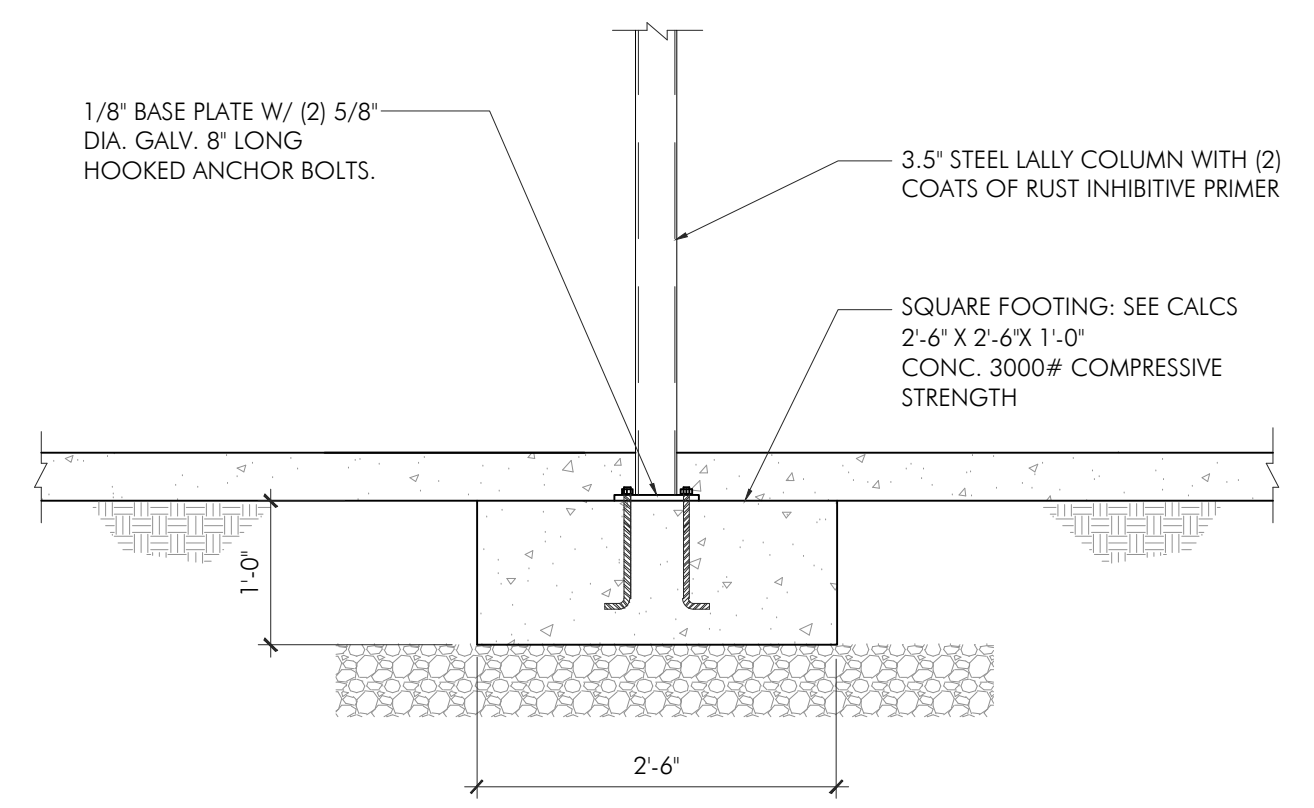
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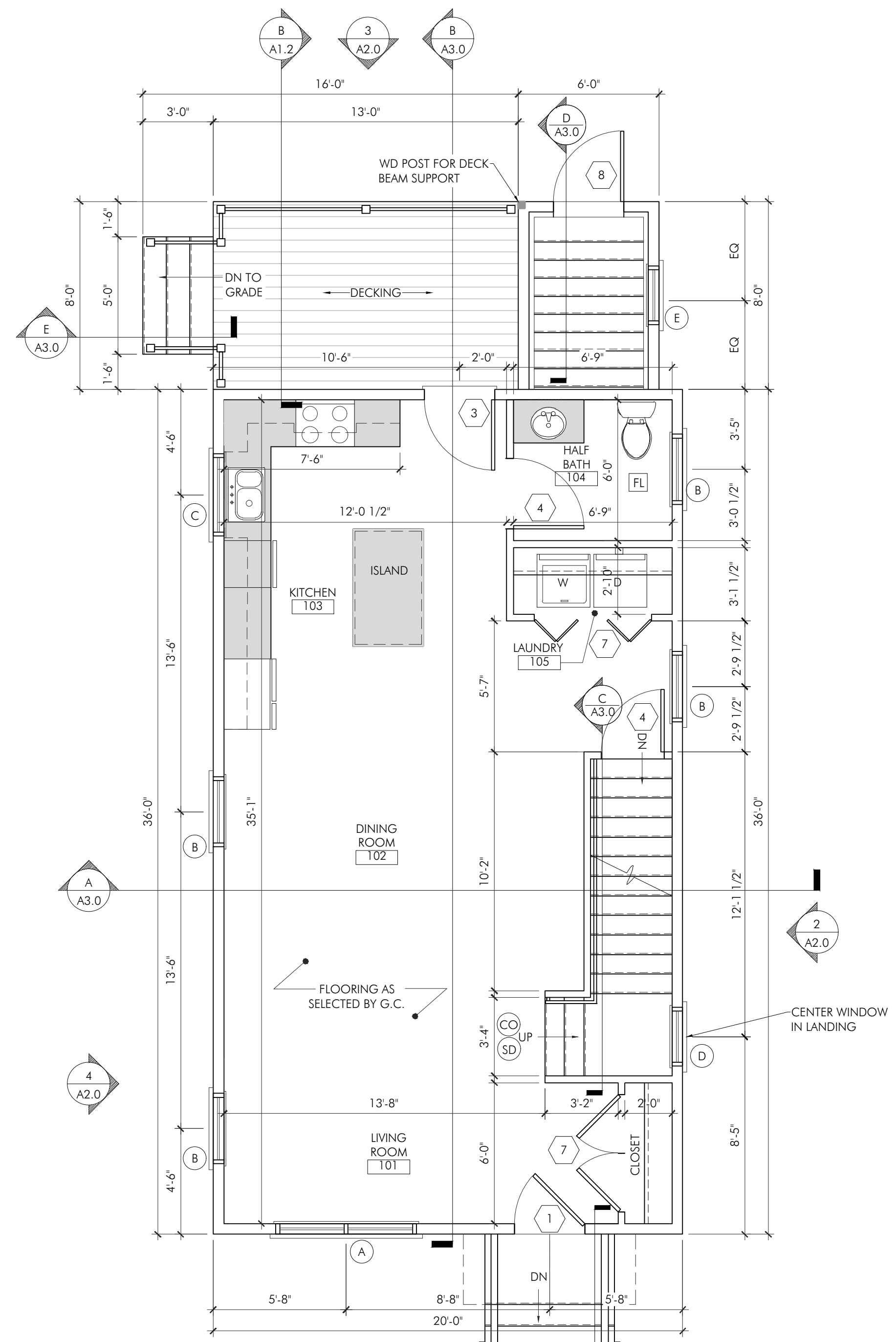
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FOUNDATION PLAN
 SCALE: 1/4" = 1'-0"



SECTION THRU PIPE COLUMN & FOOTING
 SCALE: 3/4" = 1'-0"



FIRST FLOOR PLAN
 SCALE: 1/4" = 1'-0"

- CO CARBON MONOXIDE DETECTOR
- SD SMOKE DETECTOR (PHOTO ELECTRIC)
- FL FAN LIGHT

DOOR SCHEDULE

I.D.	DIMENSION	ROUGH OPENING*	MANUFACTURER	MATERIAL	DESCRIPTION	LOCATION
1	3'-0"X6'-8"	AS VERIFIED BY G.C.	AS SELECTED BY G.C.	THERMA-TRU 1/2 LITE	ENTRY DOOR	LIVING ROOM 101
2	2'-4"X6'-8"	AS VERIFIED BY G.C.	BROSCO	WOOD	6-PANEL SMOOTH COLONIAL	LIVING ROOM 101
3	3'-0"X6'-8"	AS VERIFIED BY G.C.	AS SELECTED BY G.C.	THERMA-TRU 1/2 LITE	ENTRY DOOR	KITCHEN 103
4	2'-6"X6'-8"	AS VERIFIED BY G.C.	BROSCO	WOOD	6-PANEL SMOOTH COLONIAL	VARIOUS LOCATIONS
5	4'-0" BIFOLD	AS VERIFIED BY G.C.	BROSCO	WOOD	BIFOLD CLOSET DOORS	VARIOUS LOCATIONS
6	3'-0" BIFOLD	AS VERIFIED BY G.C.	BROSCO	WOOD	BIFOLD CLOSET DOORS	MASTER BEDROOM 202
7	5'-0" BIFOLD	AS VERIFIED BY G.C.	BROSCO	WOOD	BIFOLD CLOSET DOORS	KITCHEN 103
8	3'-0"X6'-8"	AS VERIFIED BY G.C.	AS SELECTED BY G.C.	THERMA-TRU SOLID DOOR	EXTERIOR DOOR SOLID DOOR	DOG HOUSE
9	3'-0"X6'-8"	AS VERIFIED BY G.C.	BROSCO	WOOD	6-PANEL SMOOTH COLONIAL	VARIOUS LOCATIONS

*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

WINDOW SCHEDULE

I.D.	MODEL#	ROUGH OPENING	MANUFACTURER	MATERIAL	DESCRIPTION	LOCATION	PATTERN
A	3254-2	V.I.F.	PELLA ENCOMPASS	VINYL	DOUBLE HUNG	LIVING ROOM 101	1/2
B	3254	3'-2" X 4'-6"	PELLA ENCOMPASS	VINYL	DOUBLE HUNG	VARIOUS LOCATIONS	1/2
C	3241	3'-2" X 3'-6"	PELLA ENCOMPASS	VINYL	DOUBLE HUNG	KITCHEN 103	1/2
D	2-6 2-4	2'-4" X 2'-6"	PELLA 250	VINYL	PICTURE - TEMPERED GLAZING	STAIR LANDING	3/2
E	2-6 2-4	2'-4" X 2'-6"	PELLA 250	VINYL	AWNING	DOG HOUSE	3/2
F	AS SELECTED BY G.C.	V.I.F.	AS SELECTED BY G.C.	VINYL	HOPPER	BASEMENT 100	1/2

*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

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A1.0

ISSUE:	DATE:
REVIEW CD SET	05.17.2024

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DRAWN BY:	SW
CHECKED BY:	DMC

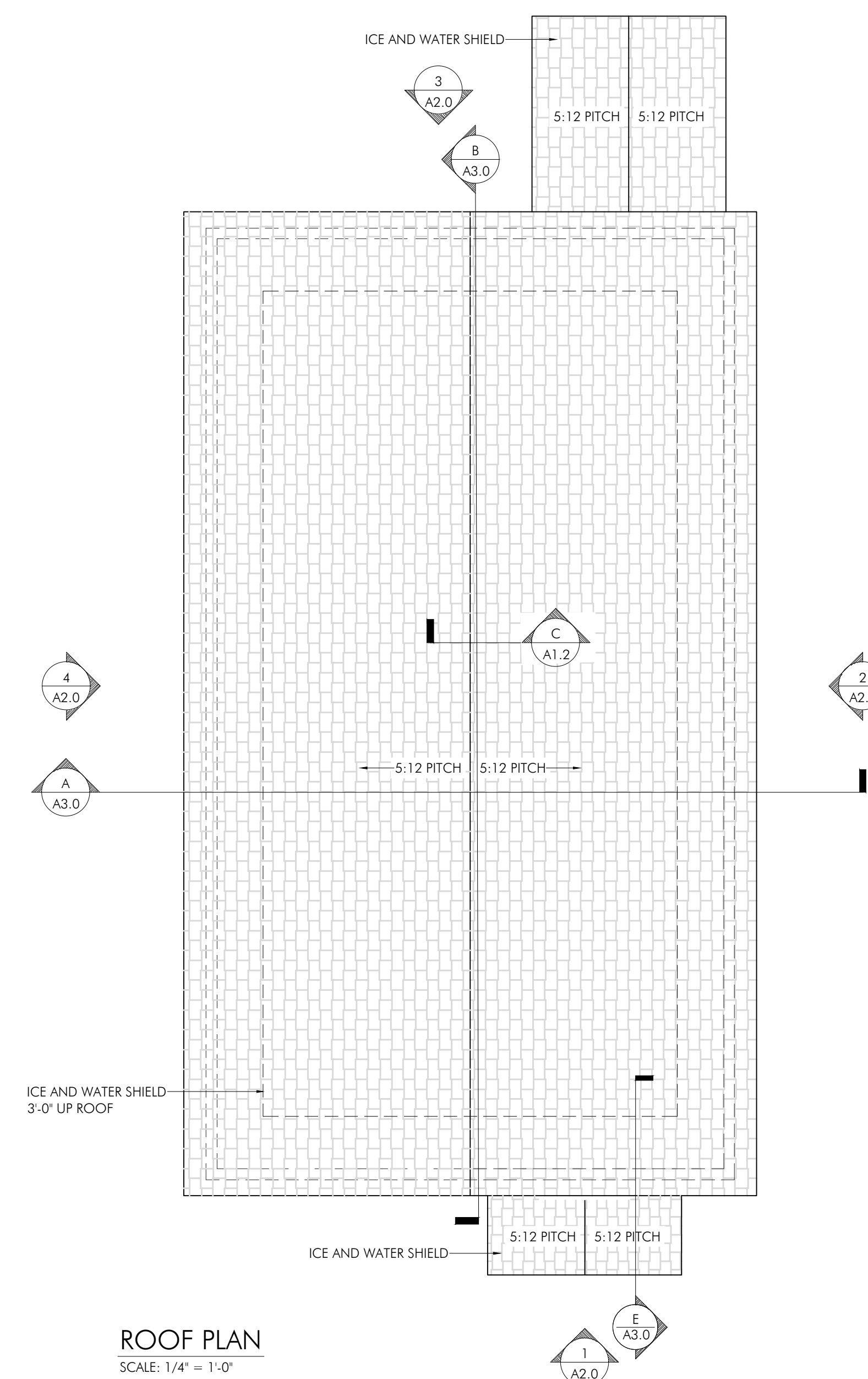
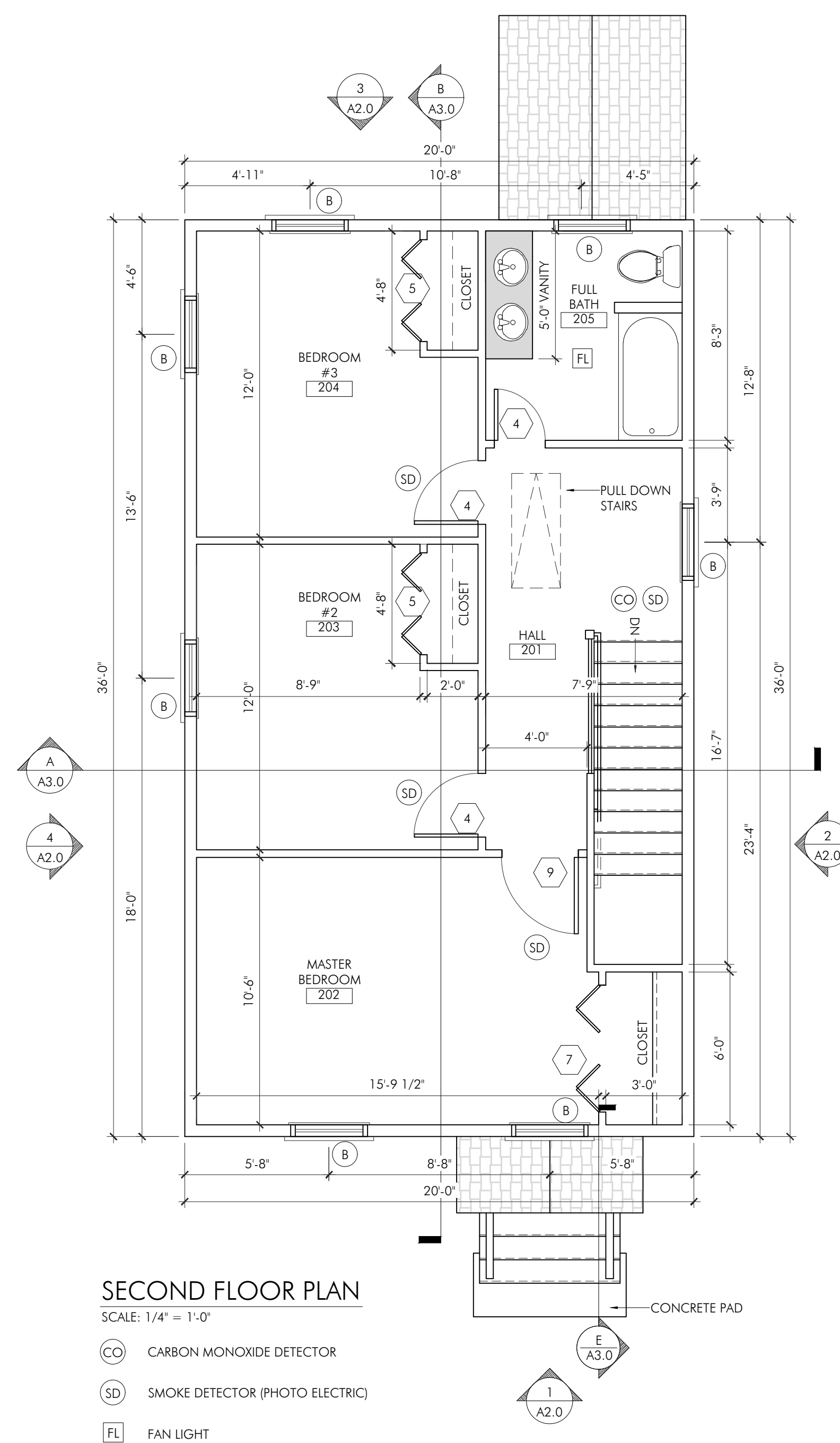
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 FIRST & SECOND FLOOR PLANS AND DOOR & WINDOW SCHEDULES

DRAWING NUMBER:

PROJECT:
 NEW HOUSE CONSTRUCTION
 HABITAT FOR HUMANITY
 5 CHESTER COURT.
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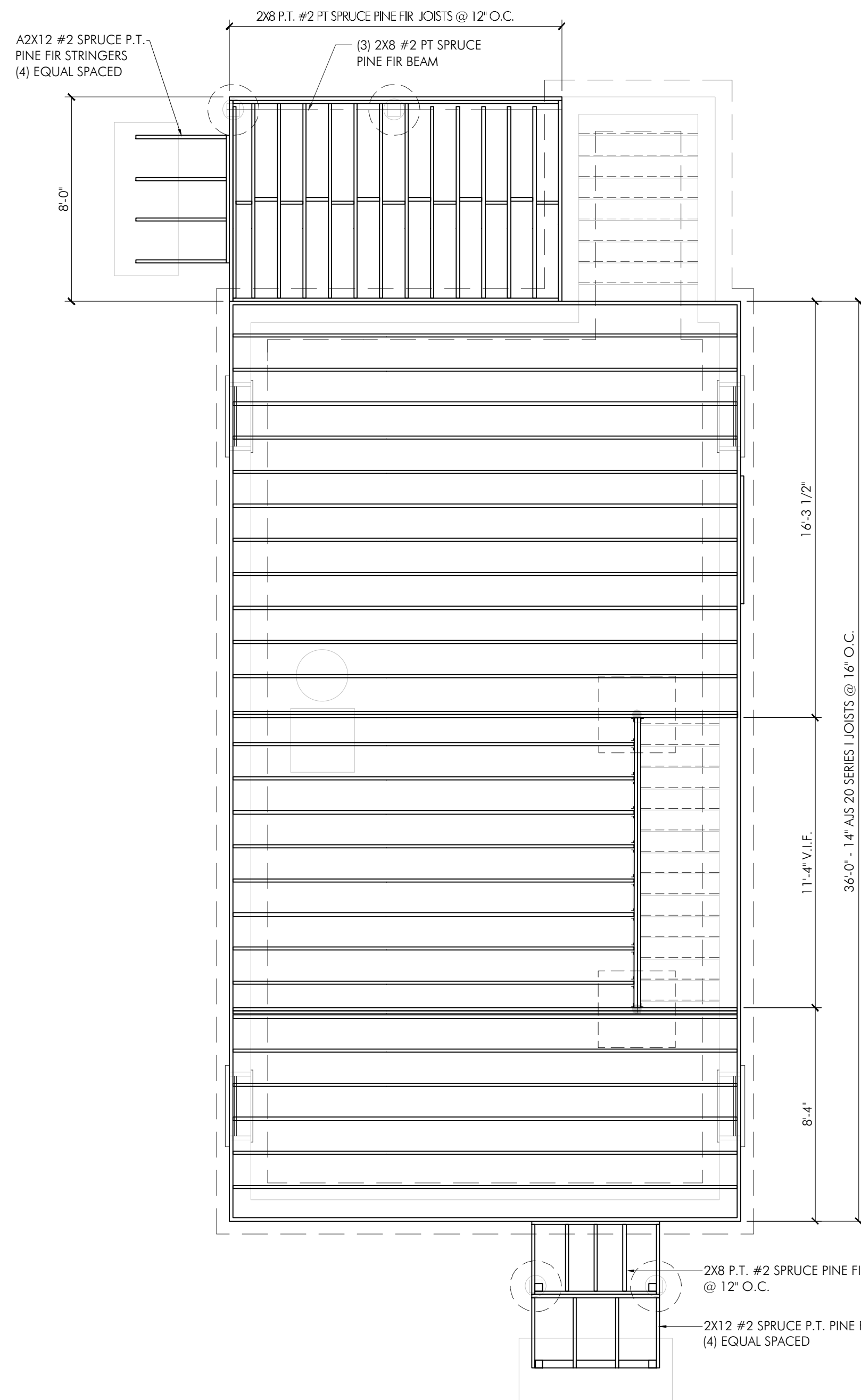
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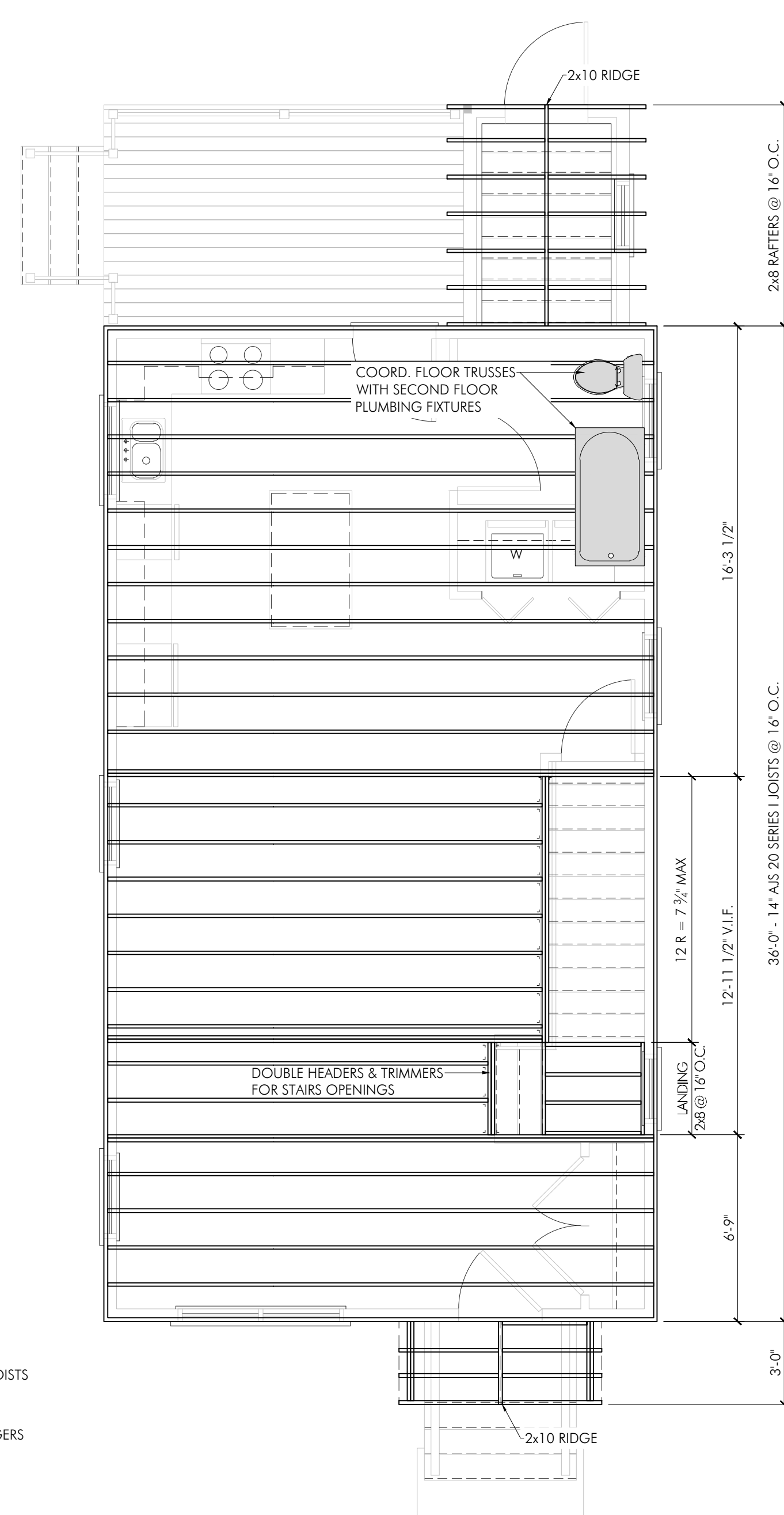
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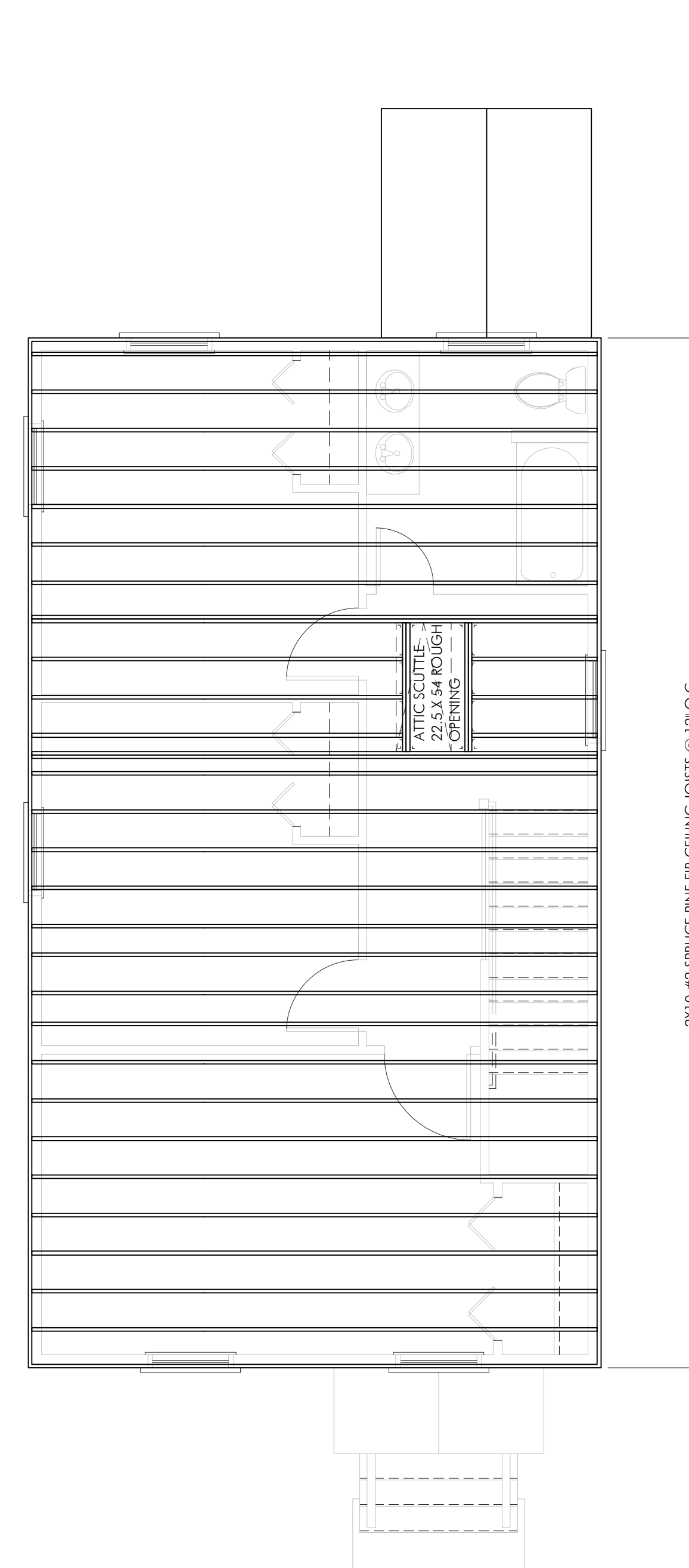
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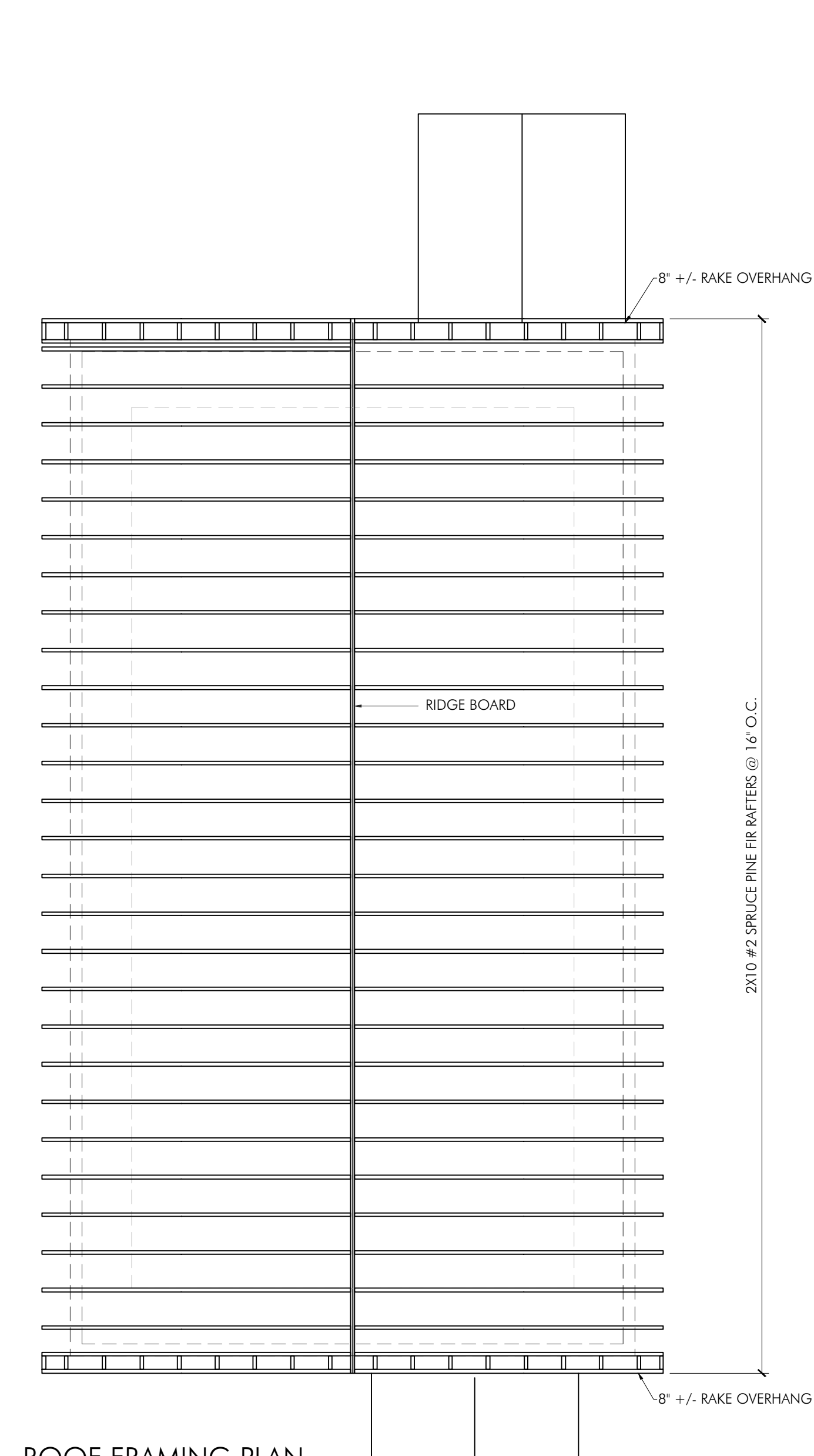
FIRST FLOOR FRAMING PLAN
 SCALE: 1/4" = 1'-0"
 UNLESS OTHERWISE NOTED DESIGN
 LOADS: LIVE LOAD = 40 PSF
 DEAD LOAD = 15 PSF



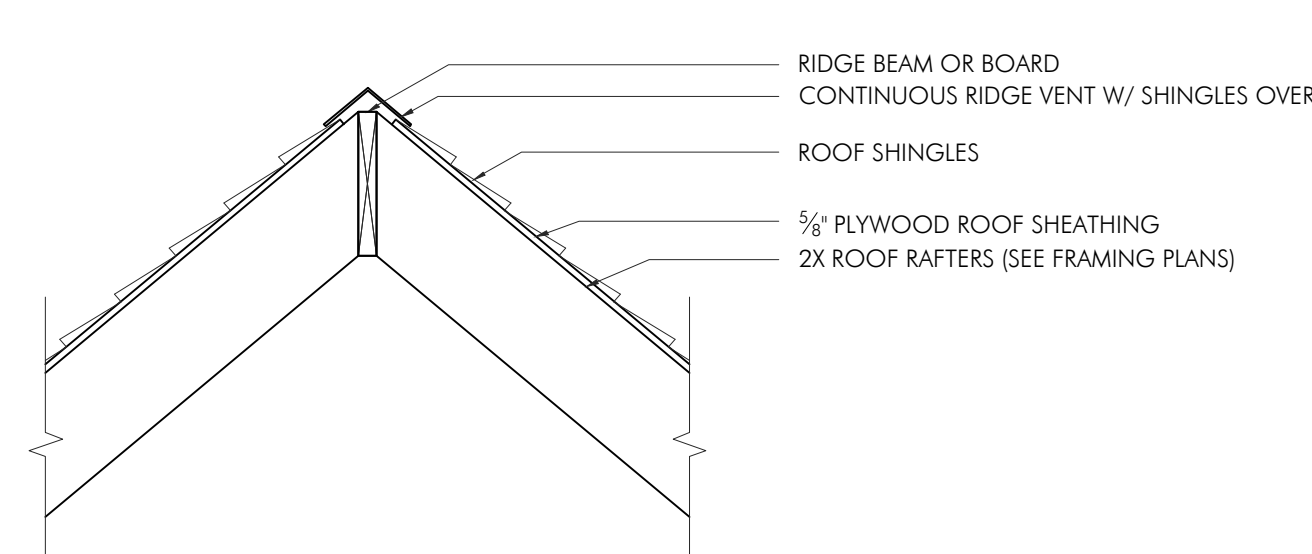
SECOND FLOOR FRAMING PLAN
 SCALE: 1/4" = 1'-0"
 UNLESS OTHERWISE NOTED DESIGN
 LOADS: LIVE LOAD = 30 PSF
 DEAD LOAD = 15 PSF



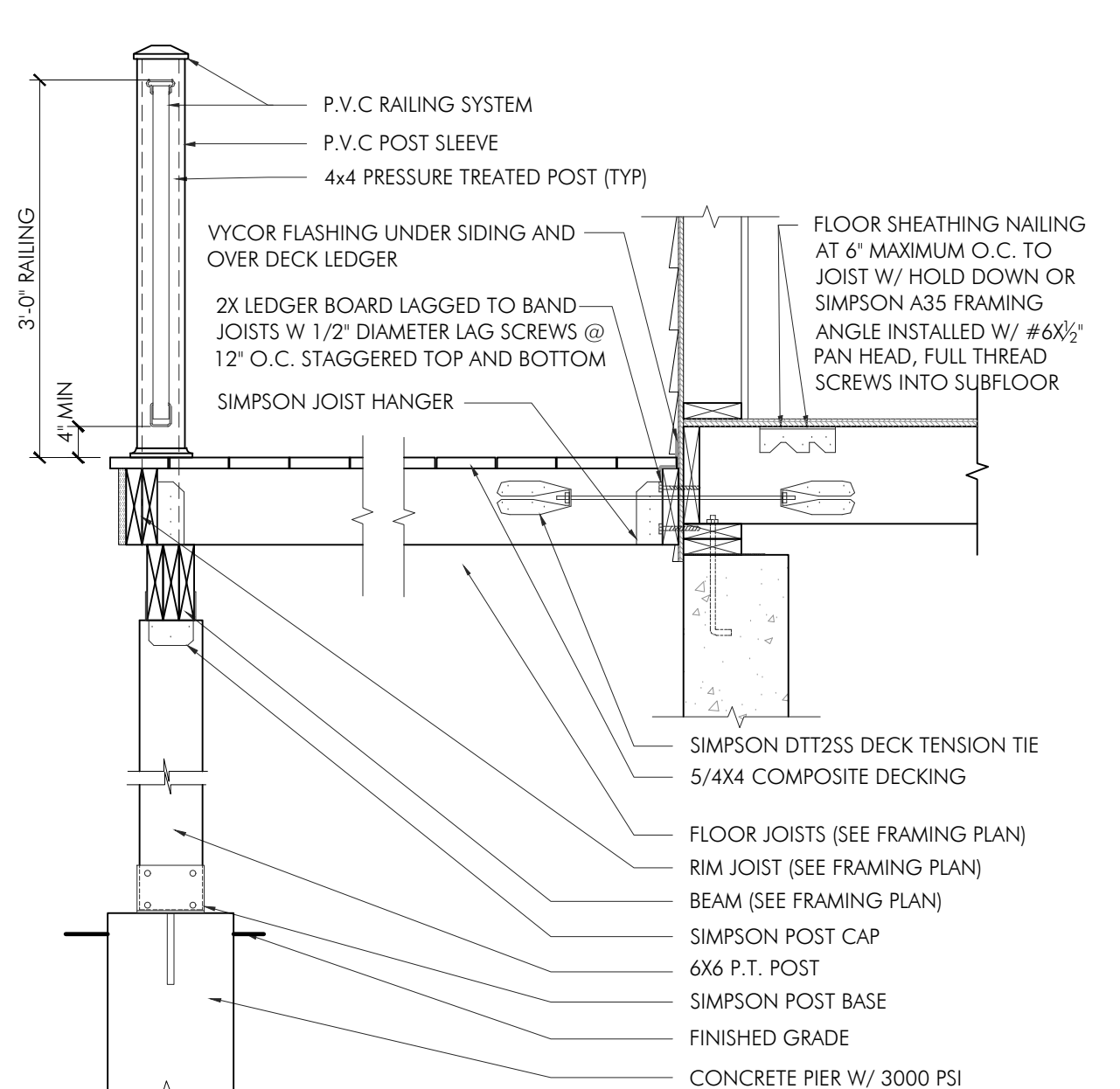
CEILING FRAMING PLAN
 SCALE: 1/4" = 1'-0"
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 LOADS: LIVE LOAD = 20 PSF
 DEAD LOAD = 10 PSF



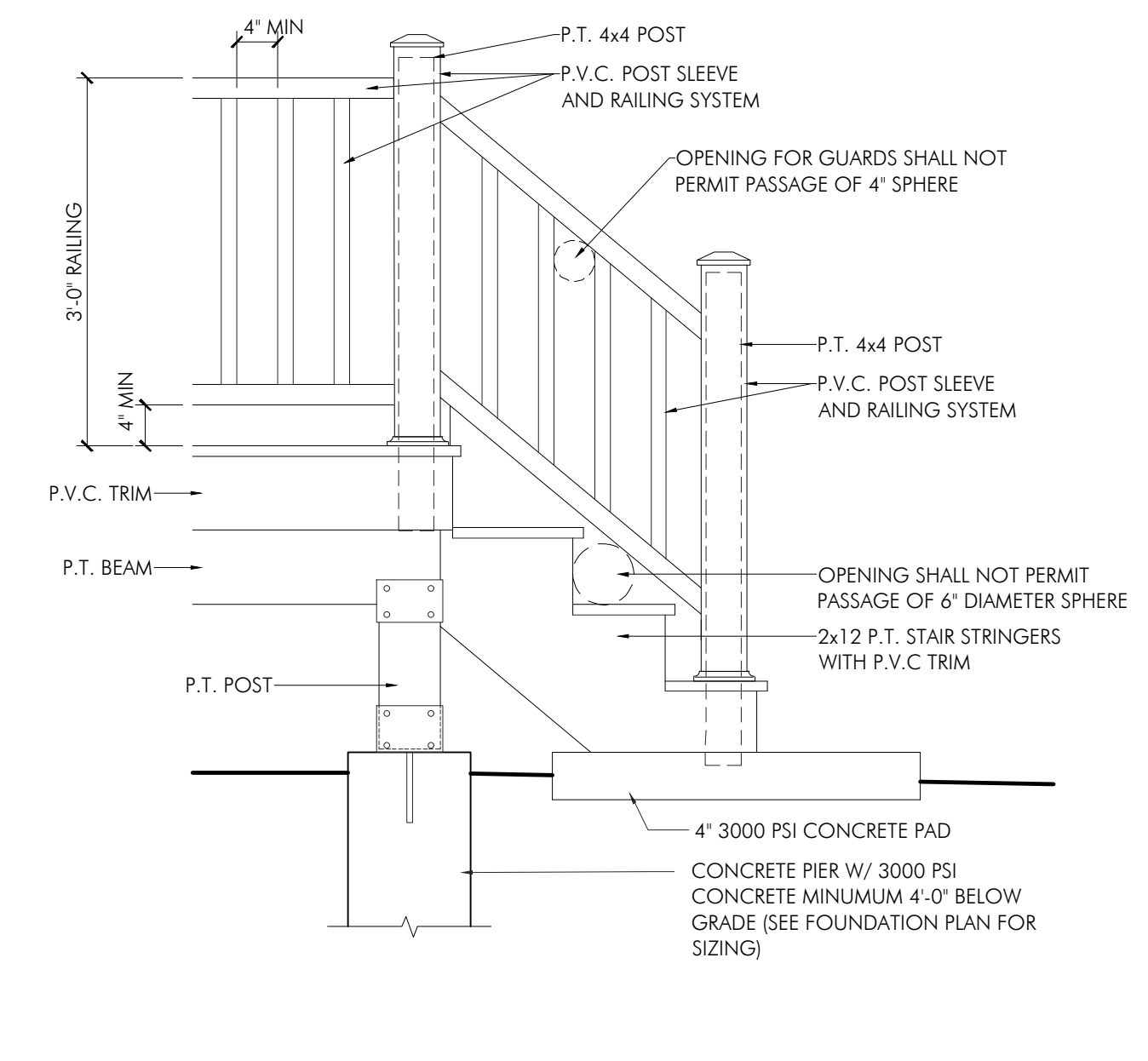
ROOF FRAMING PLAN
 SCALE: 1/4" = 1'-0"
 UNLESS OTHERWISE NOTED DESIGN LOADS:
 LIVE LOAD = 35 PSF (TAUNTON)
 DEAD LOAD = 20 PSF (INCLUDES SOLAR PV READY LOAD)



C FLUSH RIDGE OR HIP BEAM DETAIL
 SCALE: 3/4" = 1'-0"



B DECK DETAIL
 SCALE: 3/4" = 1'-0"



A DECK STAIR & GUARD DETAIL
 SCALE: 3/4" = 1'-0"

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 FIRST, SECOND, THIRD FLOOR FRAMING PLANS & ROOF FRAMING PLAN AND DETAILS

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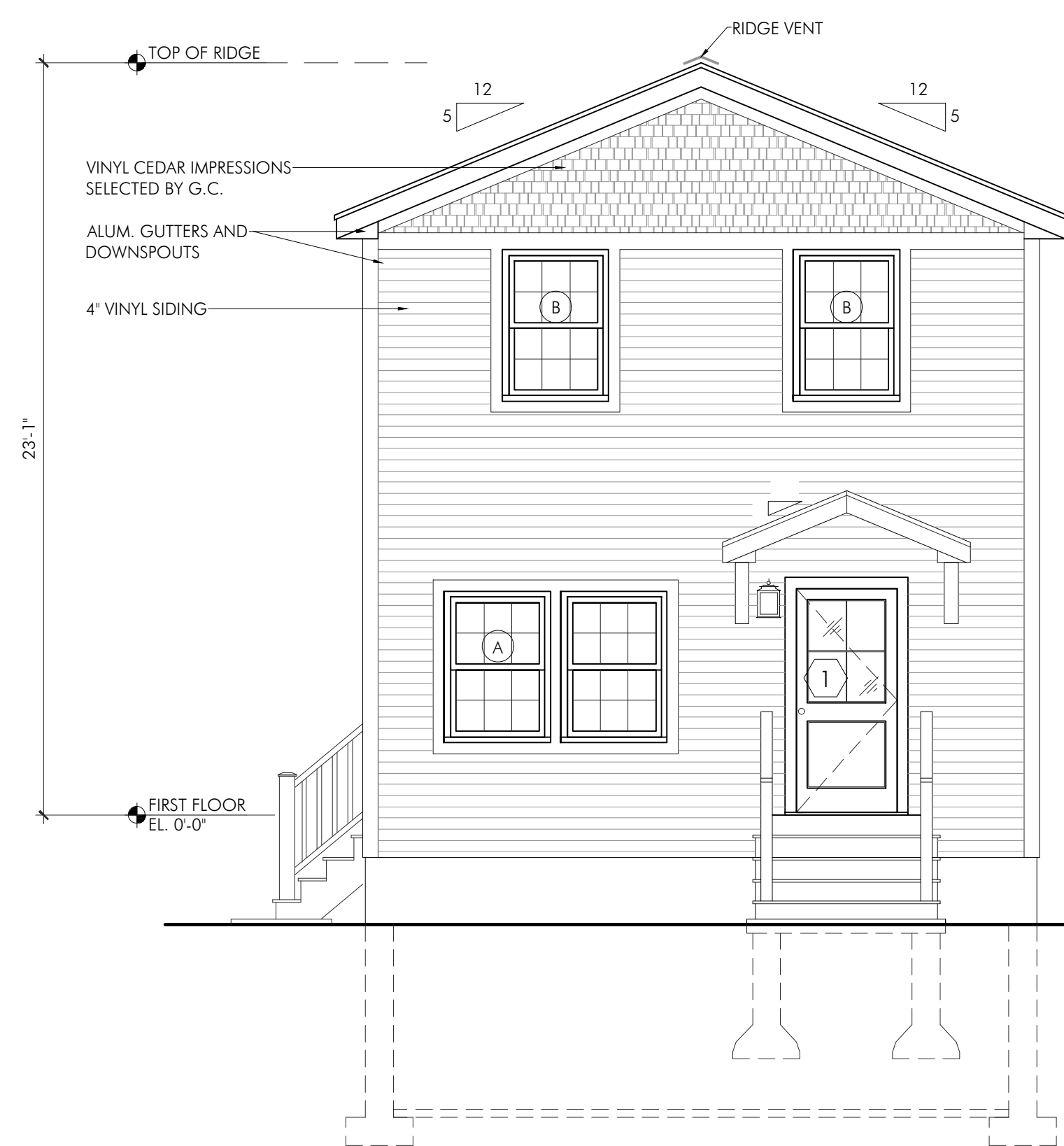
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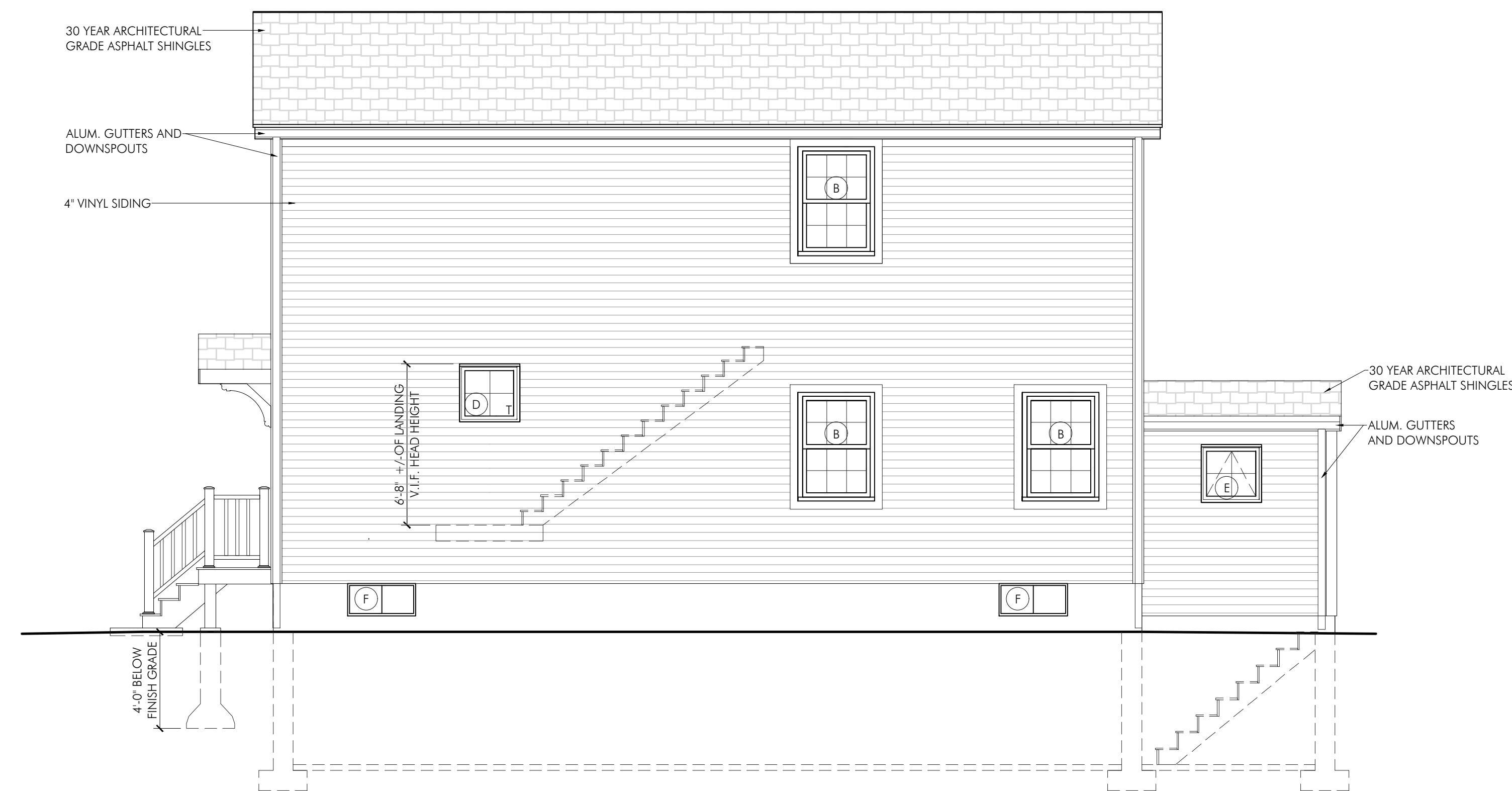
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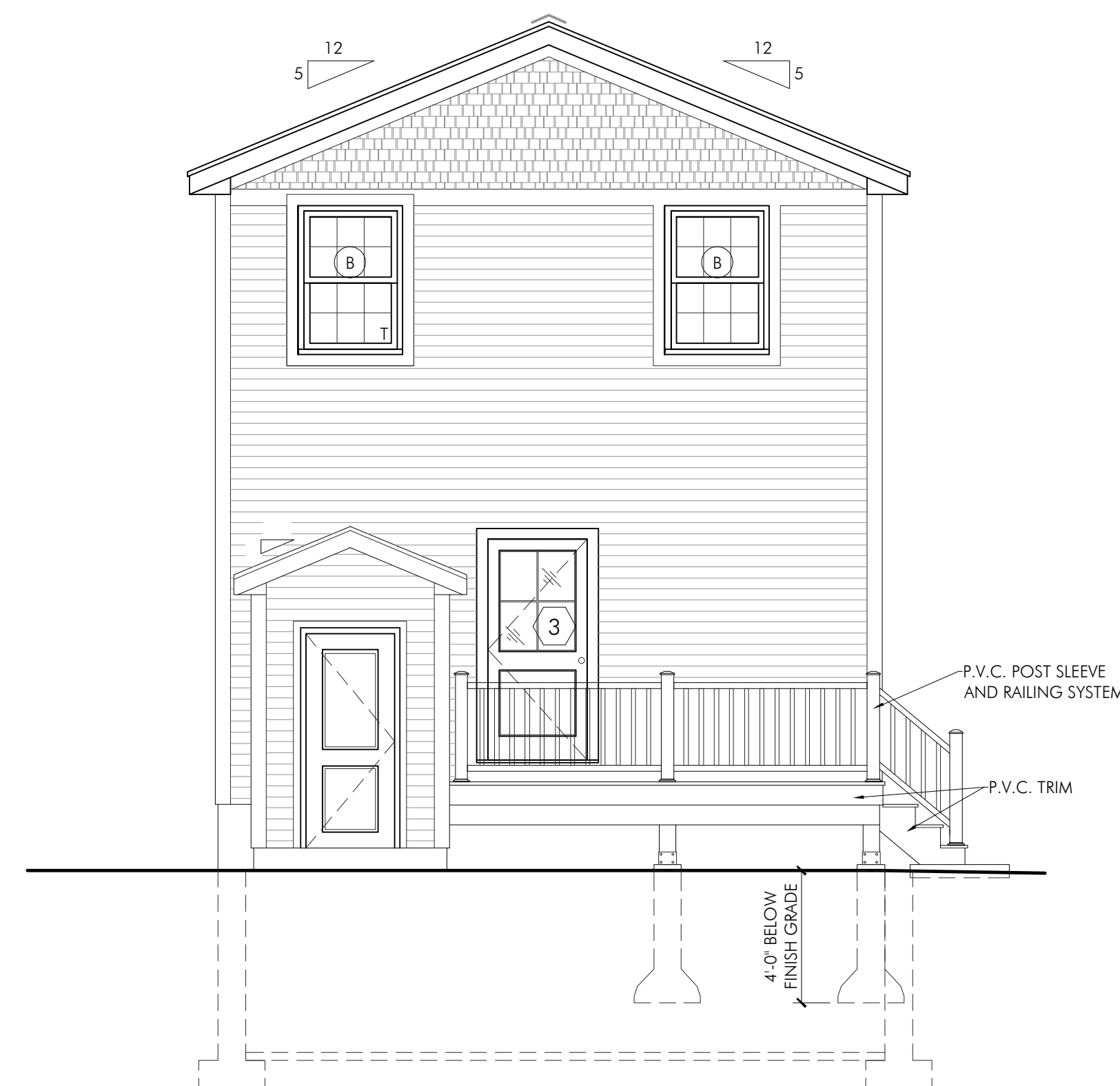
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1 FRONT ELEVATION
 SCALE: 1/4" = 1'-0"



2 RIGHT ELEVATION
 SCALE: 1/4" = 1'-0"



3 REAR ELEVATION
 SCALE: 1/4" = 1'-0"



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

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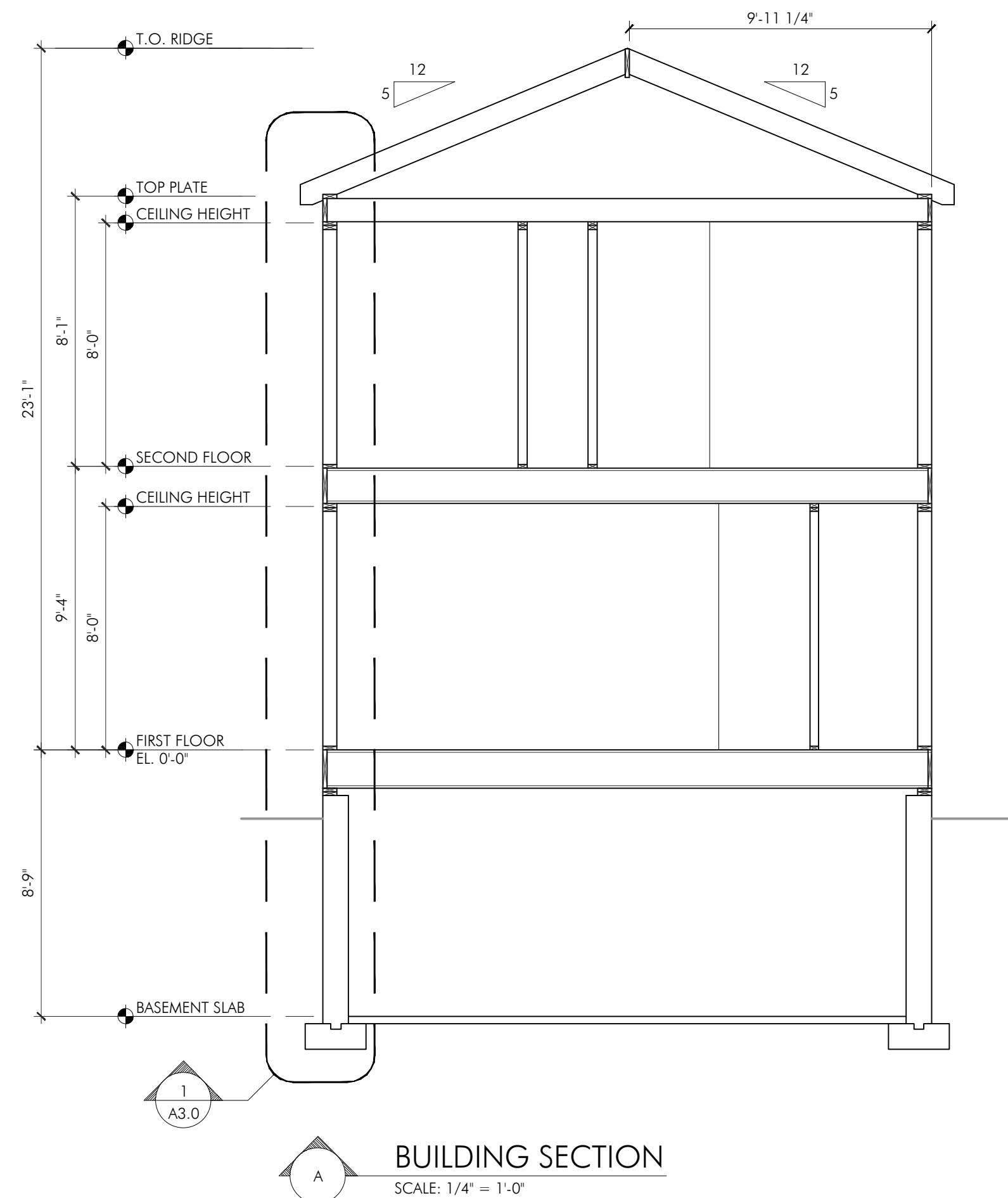
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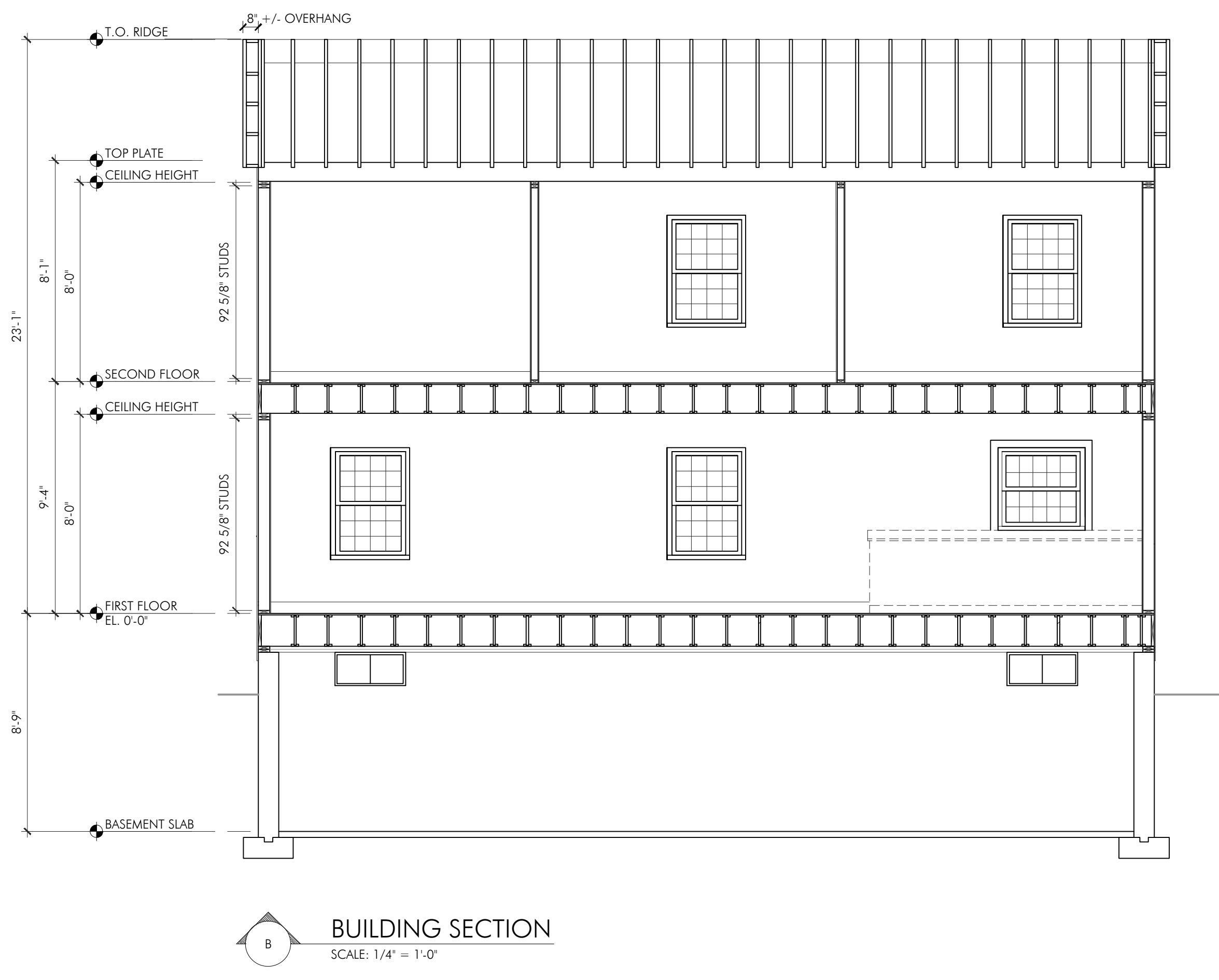
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 EXTERIOR ELEVATIONS

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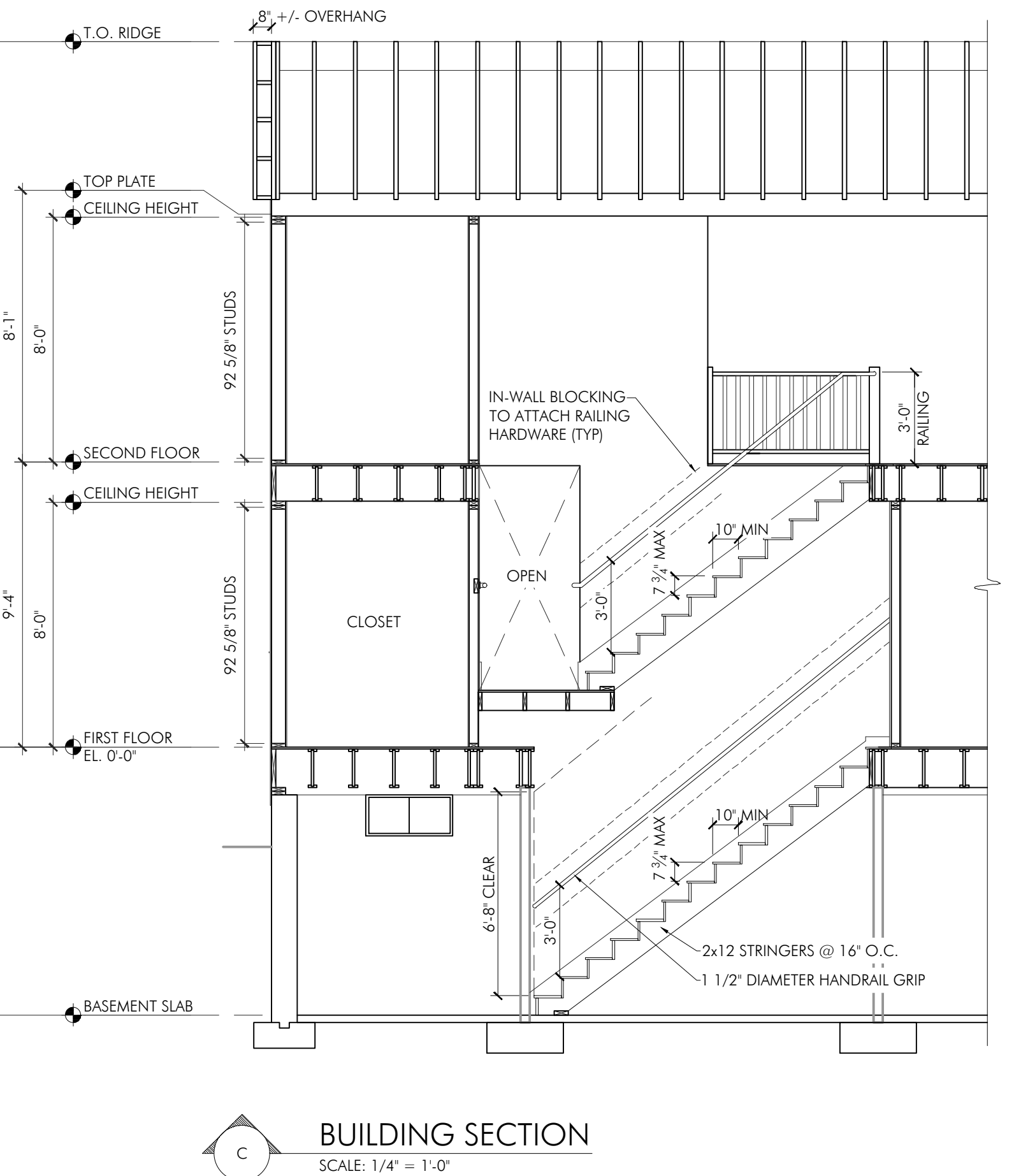
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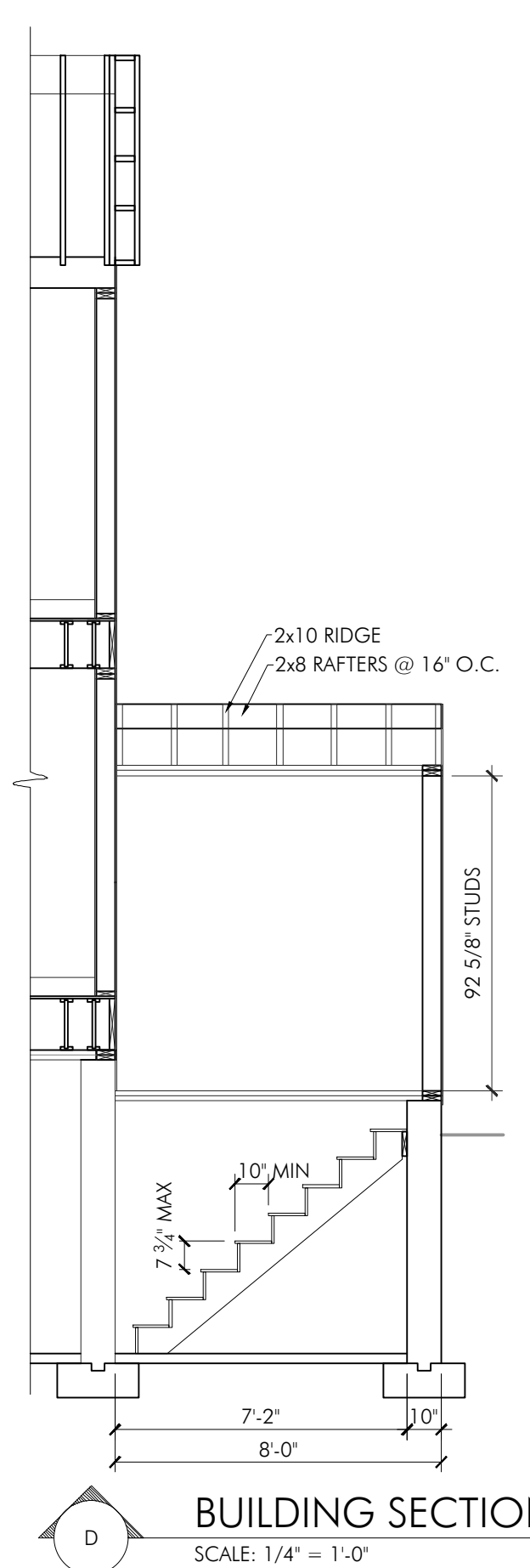
BUILDING SECTION
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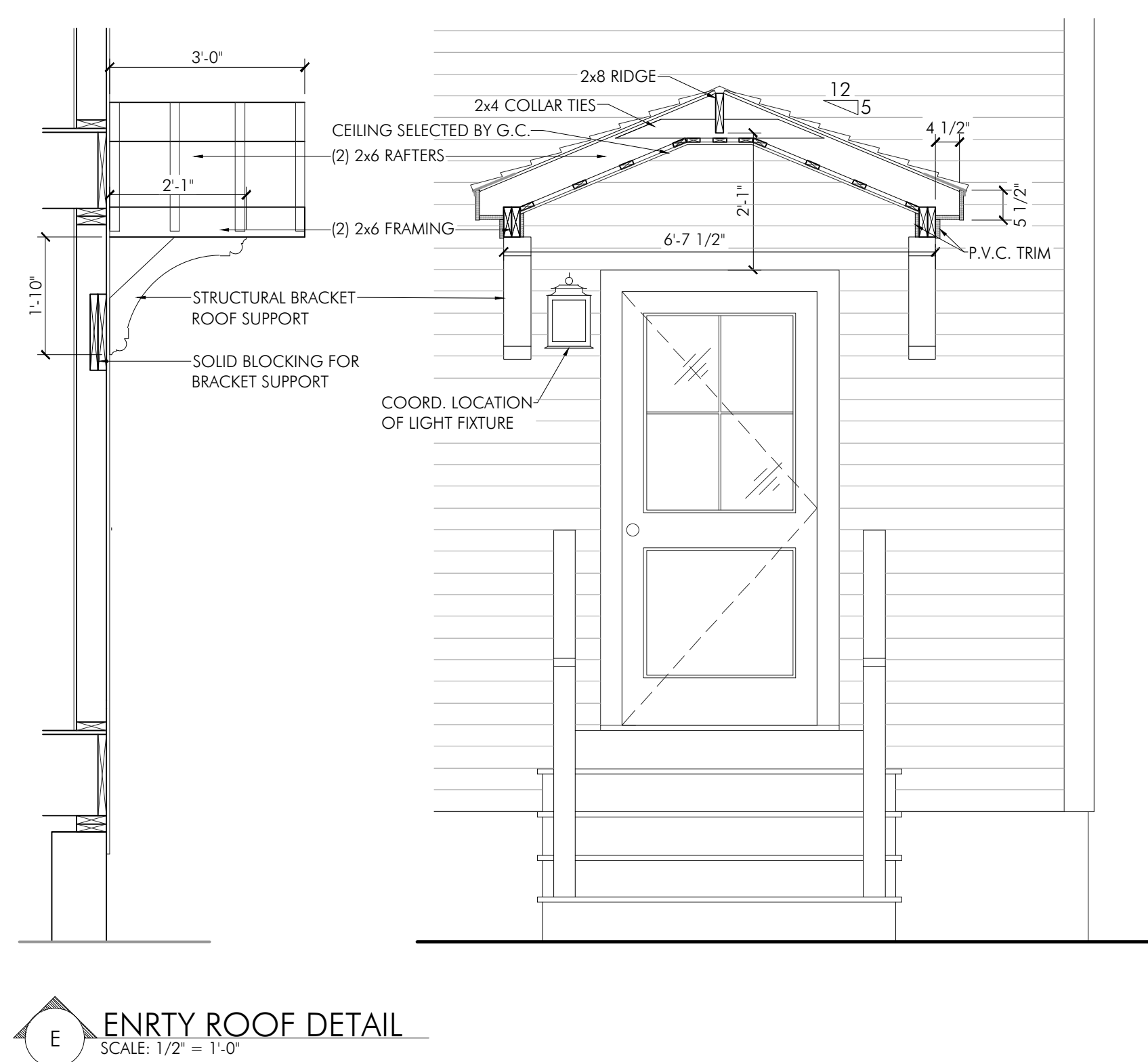
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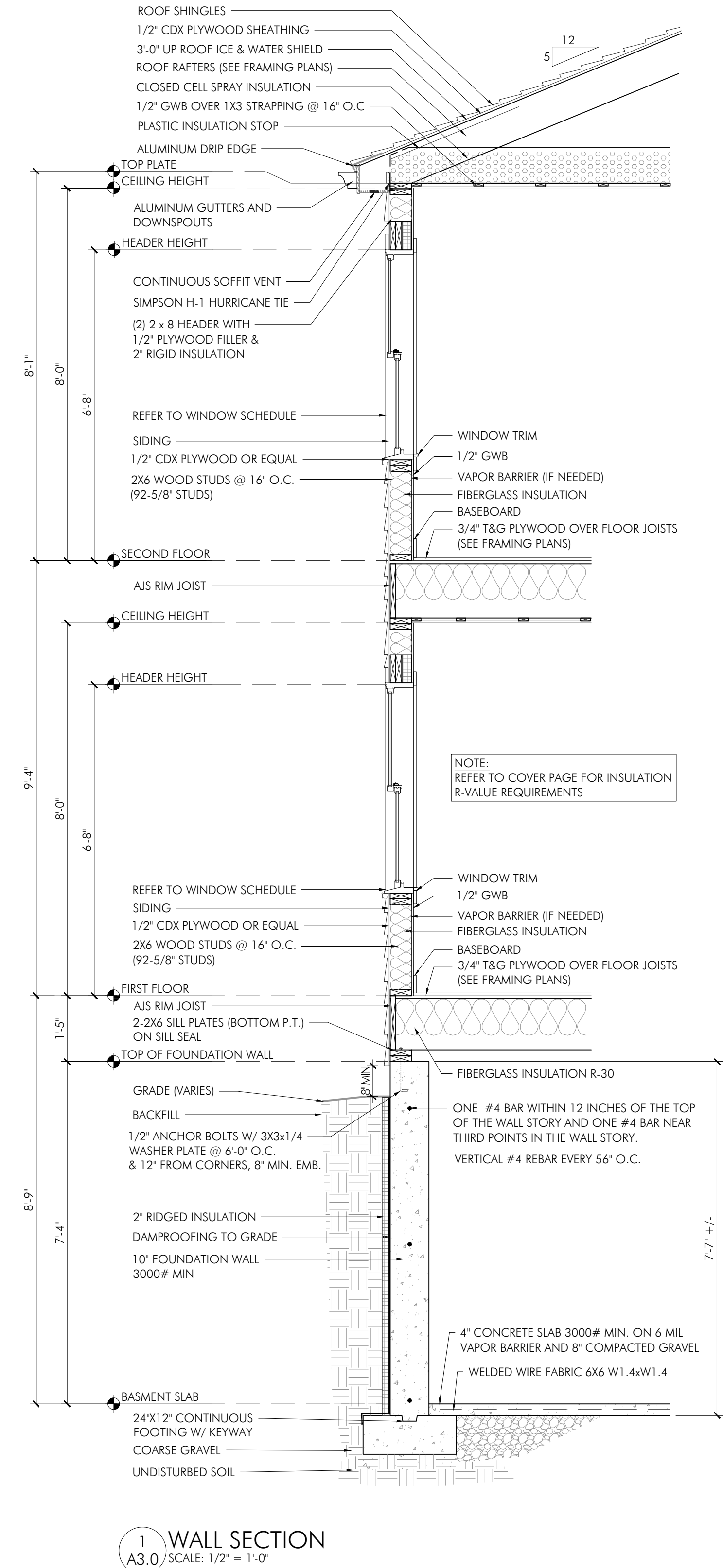
BUILDING SECTION
SCALE: 1/4" = 1'-0"



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



ENTRY ROOF DETAIL
SCALE: 1/2" = 1'-0"



1 WALL SECTION
SCALE: 1/2" = 1'-0"

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BUILDING AND WALL SECTIONS

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