

Habitat for Humanity

Custom Residence

Lot 5 Pike Ave

Attleboro, MA 02703



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



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¹ R503.1.1 BUILDING ENVELOPE EXCEPTION 2: THE FOLLOWING ALTERATIONS NEED NOT COMPLY WITH THE REQUIREMENTS FOR NEW CONSTRUCTION PROVIDED THE ENERGY USE OF THE BUILDING IS NOT INCREASED: EXISTING CEILING, WALL OR FLOOR CAVITIES EXPOSED DURING CONSTRUCTION PROVIDED THAT THESE CAVITIES ARE FILLED WITH INSULATION.

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

Table of abbreviations for architectural symbols and materials.

Table of abbreviations for architectural symbols and materials, continued.

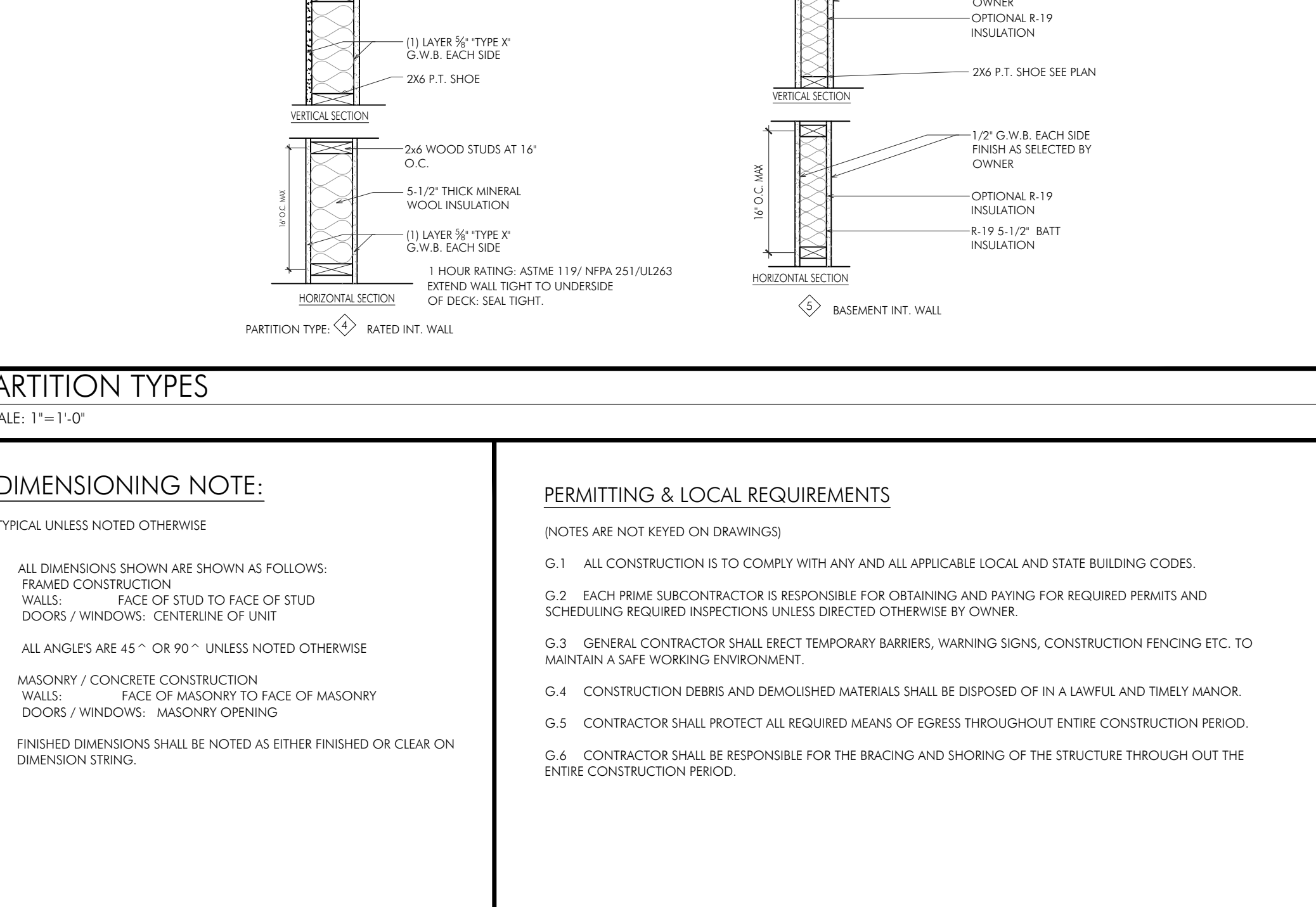
GENERAL FOUNDATION & CONCRETE NOTES
1. SPREAD FOOTINGS SHALL BEAR LEVEL ON UNDISTURBED SOIL HAVING AN ALLOWABLE BEARING CAPACITY OF 2 TONS PER SQUARE FOOT.

DRAWING LIST table showing drawing titles and issue dates.

SYMBOLS LEGEND table showing symbols for column lines, walls, doors, and windows.

MATERIALS LEGEND table showing material patterns for earth, gravel, concrete, CMU, brick, and insulation.

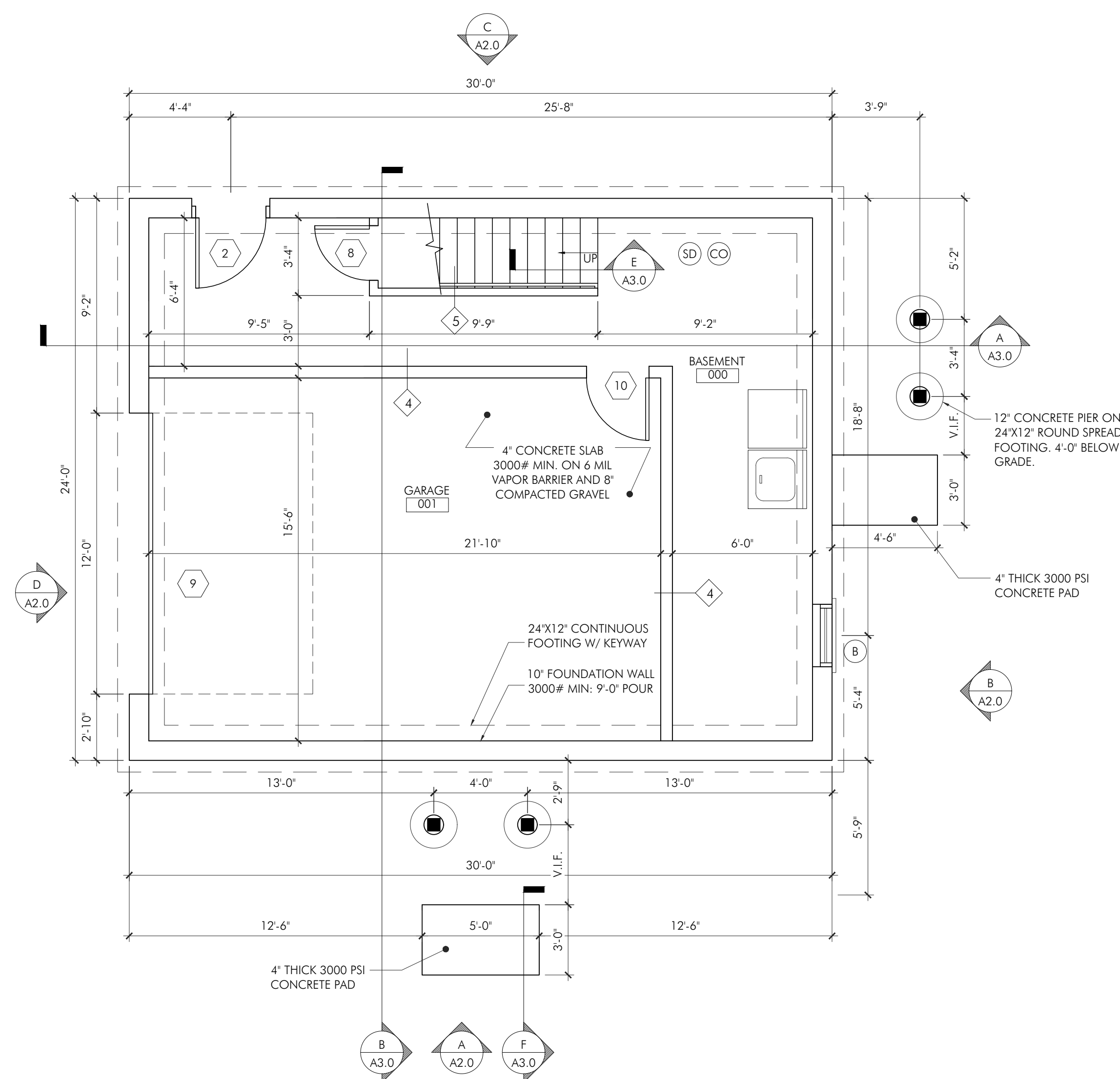
GENERAL STRUCTURAL STEEL NOTES
1. ALL STEEL SHALL BE NEW STEEL CONFORMING TO THE A.I.S.C. SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND A.S.T.M.-GRADE 36.



Project information including title (CUSTOM RESIDENCE), address (107 5 PIKE AVENUE), project number (21211), and architectural firm (DENNIS COLWELL ARCHITECTS).

PROJECT:
 CUSTOM RESIDENCE
 HABITAT FOR HUMANITY
 LOT 5 PIKE AVENUE
 ATTLEBORO, MA 02703

PROJECT NUMBER: 21211

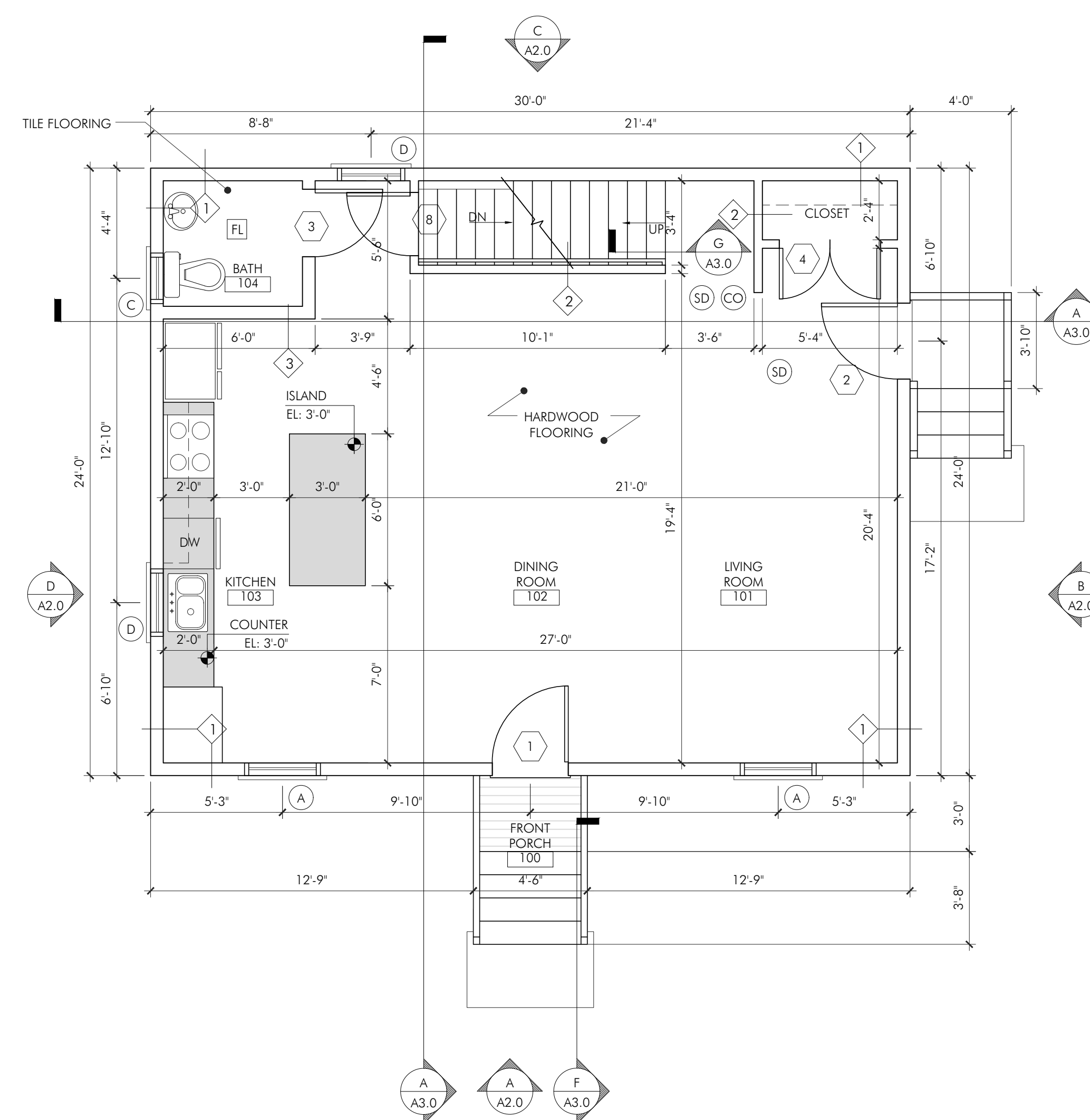


FOUNDATION PLAN
 SCALE: 1/4" = 1'-0"

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

DOOR SCHEDULE							
I.D.	QT.*	DIMENSION	ROUGH OPENING*	MANUFACTURER	MATERIAL	DESCRIPTION	LOCATION
1	1	3'-0"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	THERMA-TRU	ENTRY	ENTRY
2	1	3'-0"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	THERMA-TRU	SIDE ENTRY	SIDE ENTRY
3	4	2'-8"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	WOOD	AS SELECTED BY G.C.	VARIOUS
4	1	4'-0"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	WOOD	BI-FOLD	CLOSET
5	1	2'-6"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	WOOD	SLIDER	BATHROOM
6	3	4'-8"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	WOOD	BI-FOLD	CLOSETS
7	1	5'-0"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	WOOD	AS SELECTED BY G.C.	CLOSET
8	2	2'-6"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	WOOD	AS SELECTED BY G.C.	STAIR
9	1	12'-0"X7'-0"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	STEEL	GARAGE ENTRY	GARAGE 001
10	1	2'-8" X 6'-8"	AS VERIFIED BY G.C.	THERMA-TRU	*FIRE RATED*	AS SELECTED BY G.C.	BASEMENT 000

*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



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

- 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
A	8	AS SELECTED BY G.C.	3'-5 1/2" X 4'-9 1/2"	AS SELECTED BY G.C.	VINYL	DOUBLE HUNG	VARIOUS	1 1/2
B	1	AS SELECTED BY G.C.	V.I.F	AS SELECTED BY G.C.	VINYL	HOPPER	BASEMENT	NONE
C	1	AS SELECTED BY G.C.	3'-0 1/2" X 3'-8 1/2"	AS SELECTED BY G.C.	VINYL	DOUBLE HUNG	STAIR	8/8
D	2	AS SELECTED BY G.C.	2'-4 1/2" X 3'-8 1/2"	AS SELECTED BY G.C.	VINYL	DOUBLE HUNG	VARIOUS	6/6
E	2	AS SELECTED BY G.C.	2'-0 1/2" X 2'-0 1/2"	AS SELECTED BY G.C.	VINYL	PICTURE	BATHROOM	9

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 *ALL ROUGH OPENINGS TO BE VERIFIED IN FIELD BEFORE ORDERING

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ISSUE: DATE:
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DRAWING SCALE: 1/4" = 1'-0"

DRAWN BY: CJD CHECKED BY: DMC

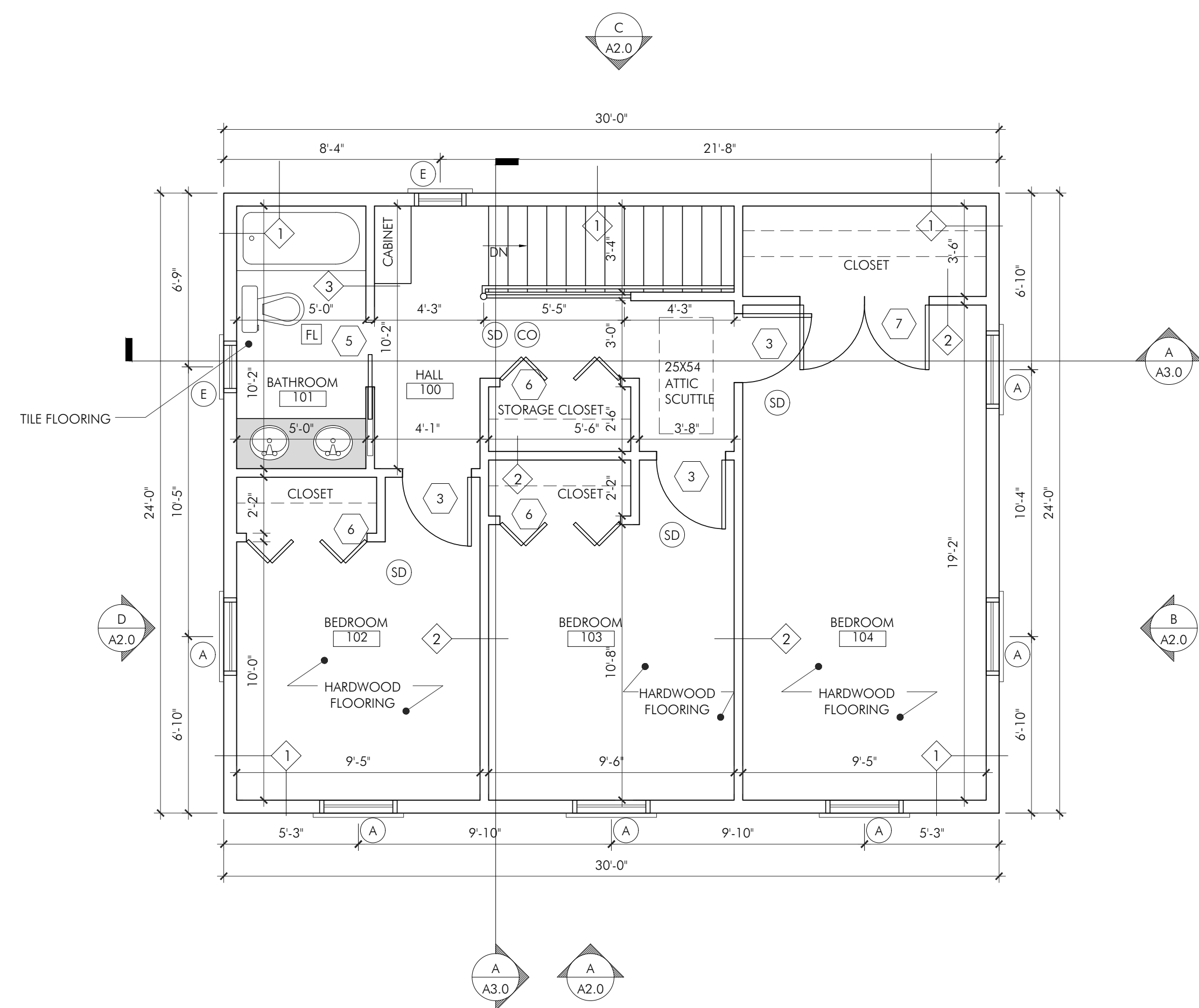
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DRAWING NUMBER:

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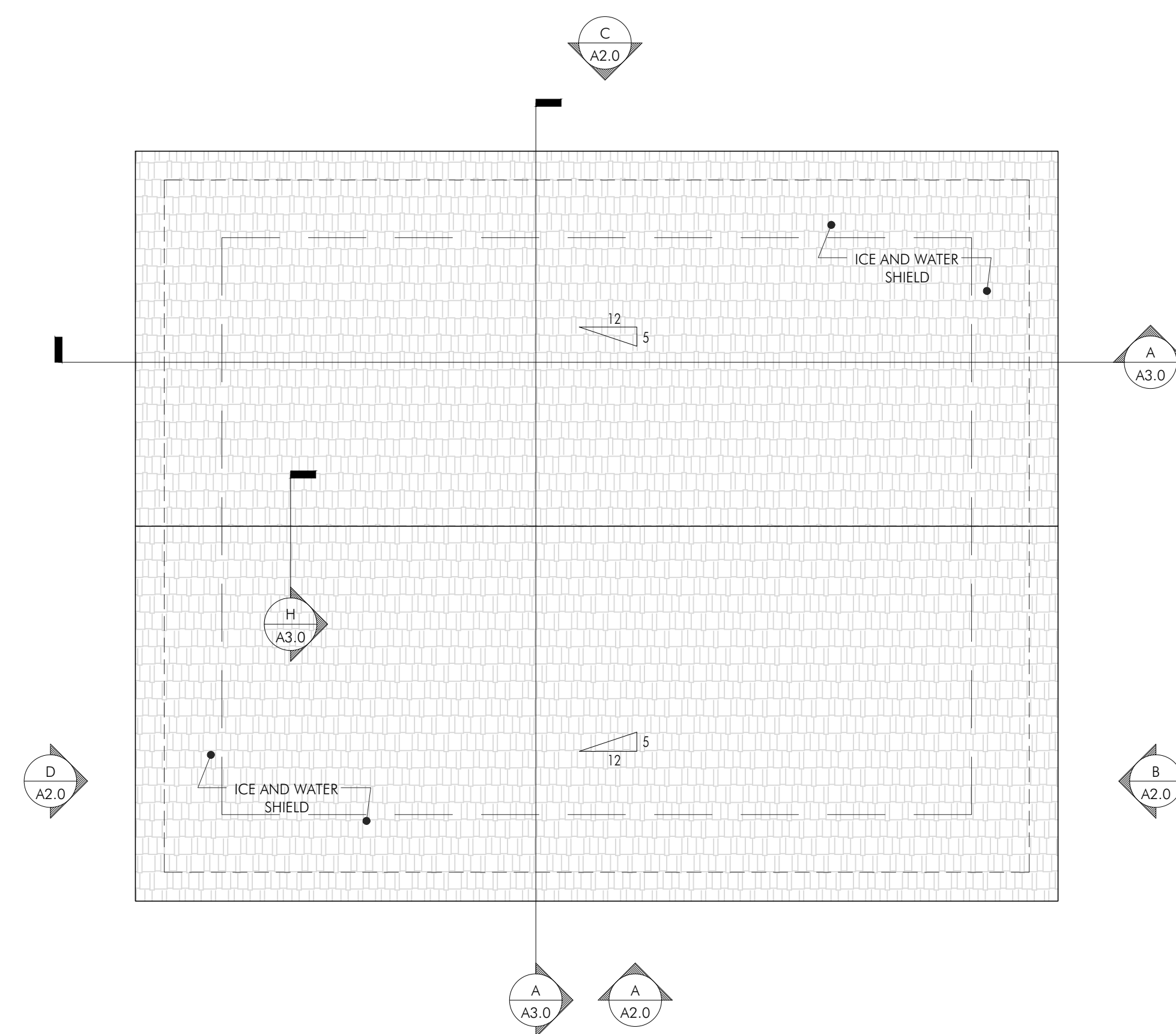
PROJECT:
 CUSTOM RESIDENCE
 HABITAT FOR HUMANITY
 LOT 5 PIKE AVENUE
 ATTLEBORO, MA 02703

PROJECT NUMBER: 21211



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

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



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

DOOR SCHEDULE

I.D.	QT.*	DIMENSION	ROUGH OPENG*	MANUFACTURER	MATERIAL	DESCRIPTION	LOCATION
1	1	3'-0"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	THERMA-TRU	ENTRY	ENTRY
2	1	3'-0"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	THERMA-TRU	SIDE ENTRY	SIDE ENTRY
3	4	2'-8"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	WOOD	AS SELECTED BY G.C.	VARIOUS
4	1	4'-0"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	WOOD	BI-FOLD	CLOSET
5	1	2'-6"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	WOOD	SLIDER	BATHROOM
6	3	4'-8"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	WOOD	BI-FOLD	CLOSETS
7	1	5'-0"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	WOOD	AS SELECTED BY G.C.	CLOSET
8	2	2'-6"X6'-8"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	WOOD	AS SELECTED BY G.C.	STAIR
9	1	12'-0"X7'-0"	AS VERIFIED BY G.C.	AS VERIFIED BY G.C.	STEEL	GARAGE ENTRY	GARAGE 001
10	1	2'-8" X 6'-8"	AS VERIFIED BY G.C.	THERMA-TRU	*FIRE RATED*	AS SELECTED BY G.C.	BASEMENT 000

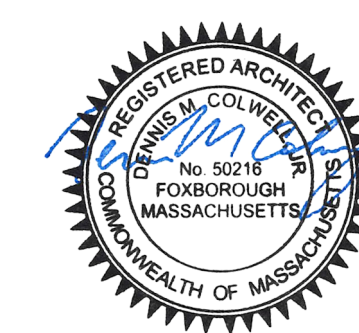
*ALL QUANTITIES TO BE VERIFIED BY G.C. BEFORE ORDERING
 *ALL ROUGH OPENINGS TO BE VERIFIED IN FIELD BEFORE ORDERING
 *FIRE RATED DOOR B-LABEL 90 MINUTES

WINDOW SCHEDULE

I.D.	QT.	MODEL#	ROUGH OPENING	MANUFACTURER	MATERIAL	DESCRIPTION	LOCATION	PATTERN
A	8	AS SELECTED BY G.C.	3'-5 1/2" X 4'-9 1/2"	AS SELECTED BY G.C.	VINYL	DOUBLE HUNG	VARIOUS	1 1/2
B	1	AS SELECTED BY G.C.	V.I.F	AS SELECTED BY G.C.	VINYL	HOPPER	BASEMENT	NONE
C	1	AS SELECTED BY G.C.	3'-0 1/2" X 3'-8 1/2"	AS SELECTED BY G.C.	VINYL	DOUBLE HUNG	STAIR	8/8
D	2	AS SELECTED BY G.C.	2'-4 1/2" X 3'-8 1/2"	AS SELECTED BY G.C.	VINYL	DOUBLE HUNG	VARIOUS	6/6
E	2	AS SELECTED BY G.C.	2'-0 1/2" X 2'-0 1/2"	AS SELECTED BY G.C.	VINYL	PICTURE	BATHROOM	9

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 *ALL ROUGH OPENINGS TO BE VERIFIED IN FIELD BEFORE ORDERING

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ISSUE: ISSUE FOR PERMIT DATE: 04.28.2022

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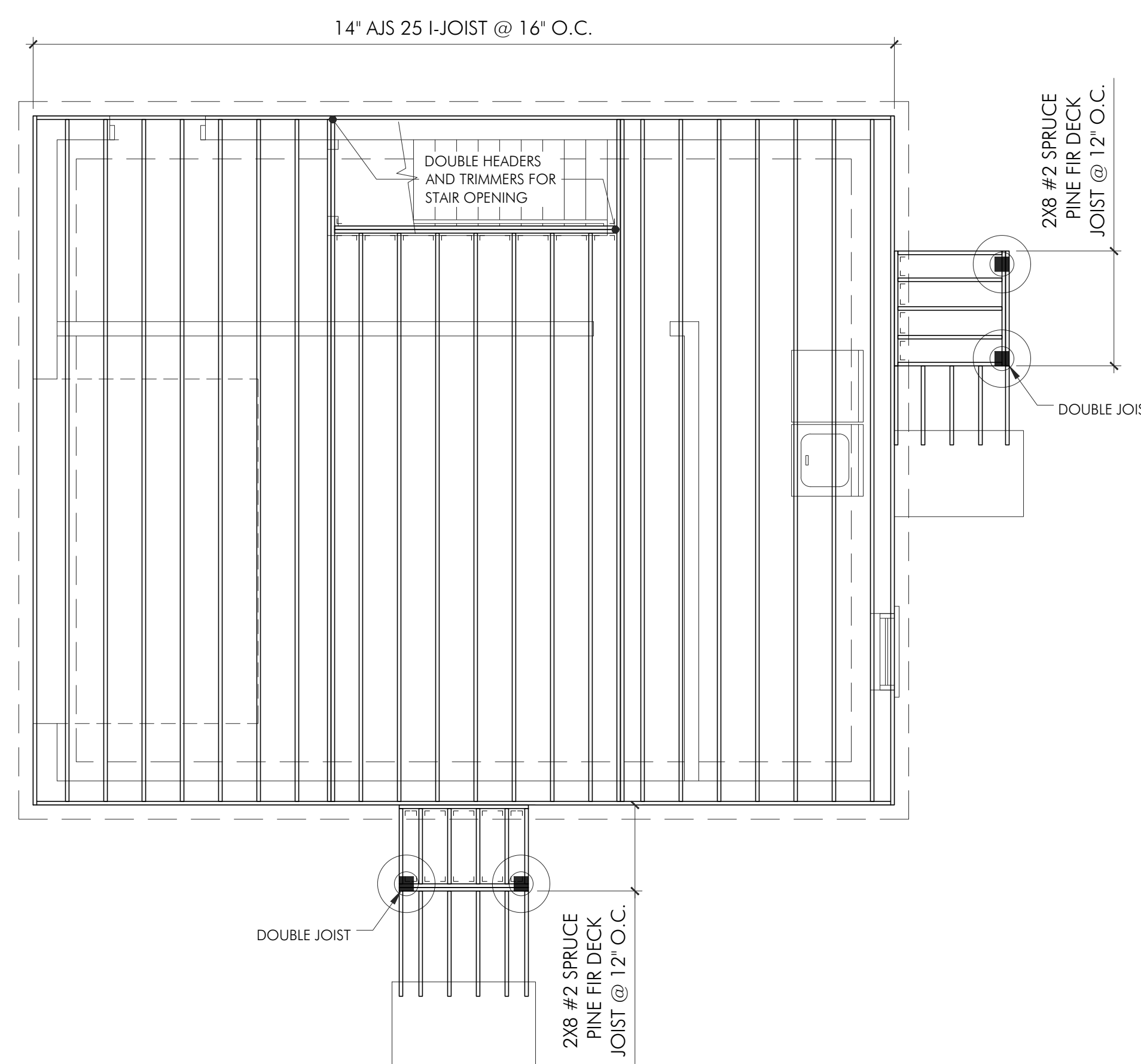
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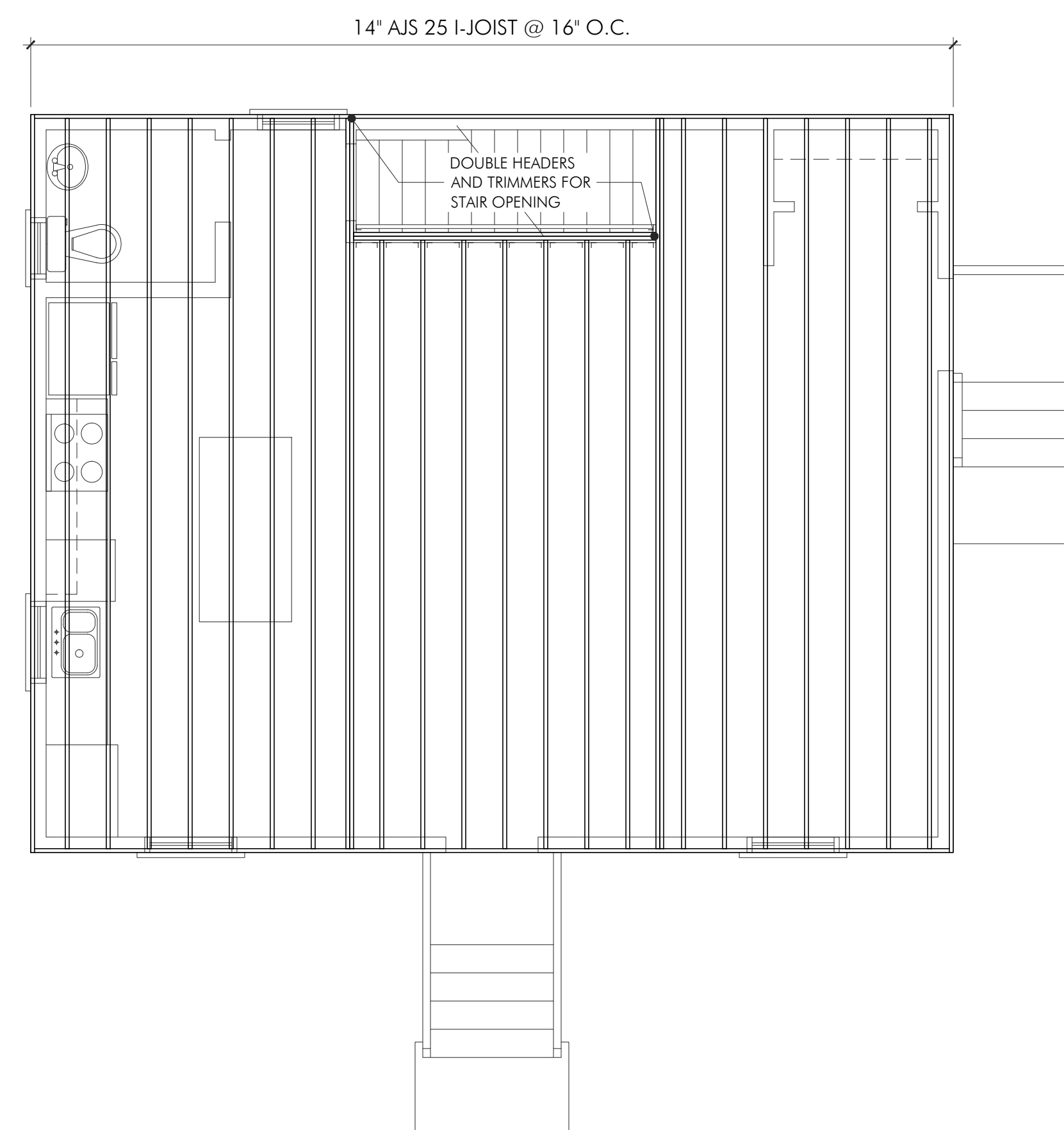
PROJECT:
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FIRST FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"
 FIRST FLOOR LOAD
 UNLESS OTHERWISE NOTED DESIGN
 LOADS: LIVE LOAD = 40 PSF
 DEAD LOAD = 15 PSF



SECOND FLOOR FRAMING PLAN

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

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DRAWING SCALE: 1/4" = 1'-0"
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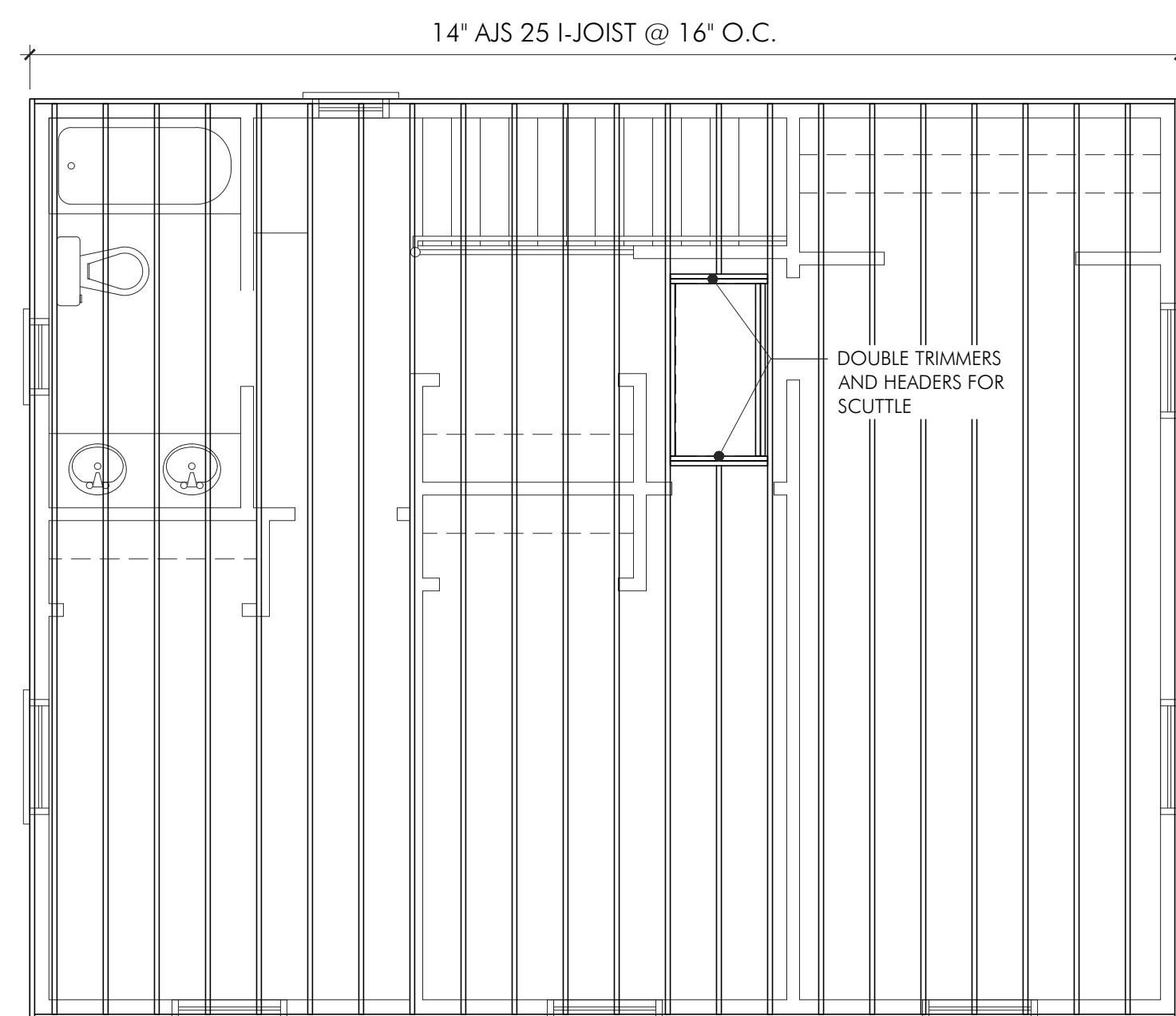
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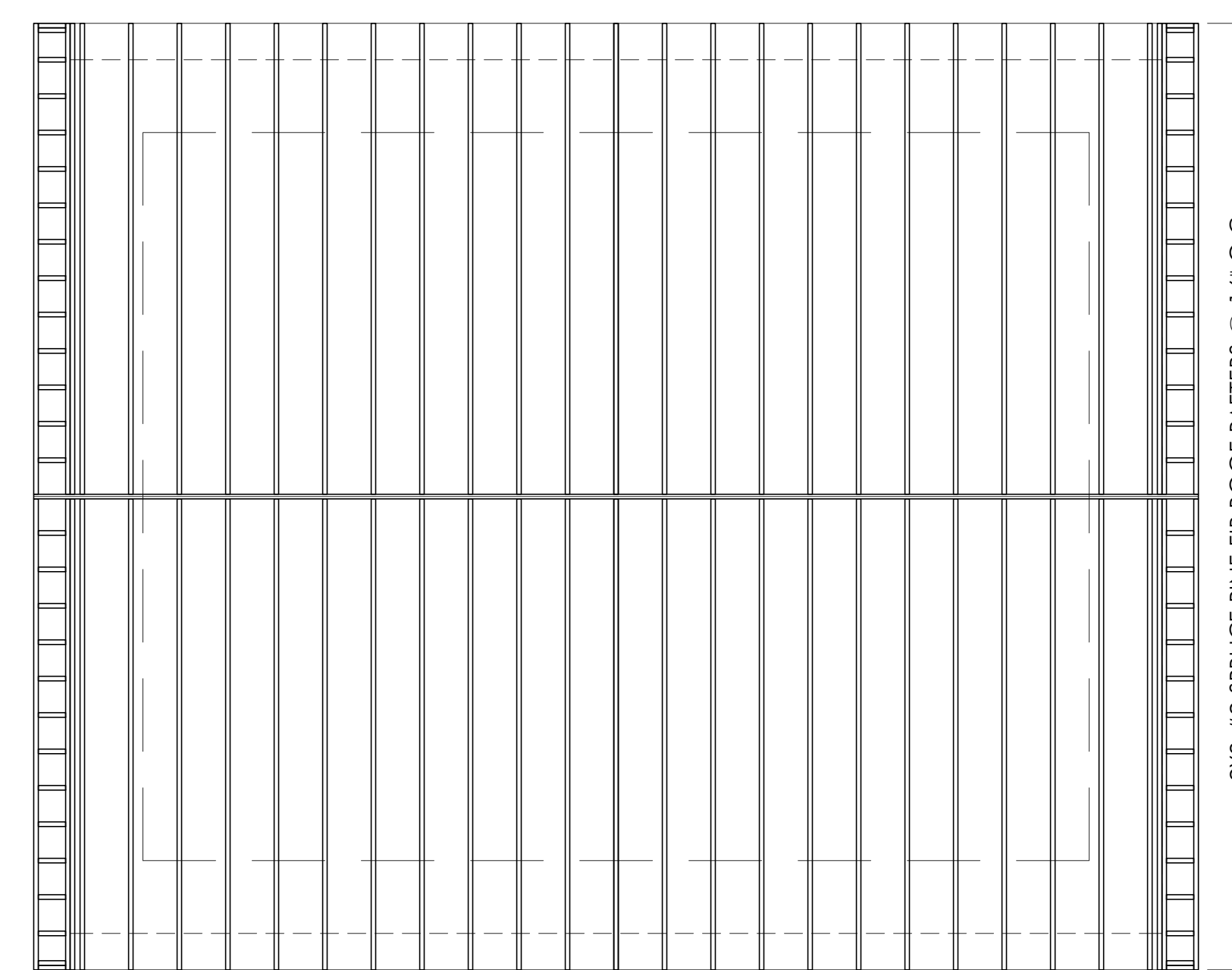
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CEILING FRAMING PLAN

SCALE: 1/4" = 1'-0"
 THIRD FLOOR LOAD
 UNLESS OTHERWISE NOTED DESIGN
 LOADS: LIVE LOAD = 20 PSF
 DEAD LOAD = 10 PSF



ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"
 ROOF LOAD
 UNLESS OTHERWISE NOTED DESIGN
 LOADS: LIVE LOAD = 35 PSF
 DEAD LOAD = 15 PSF

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DRAWING TITLE:
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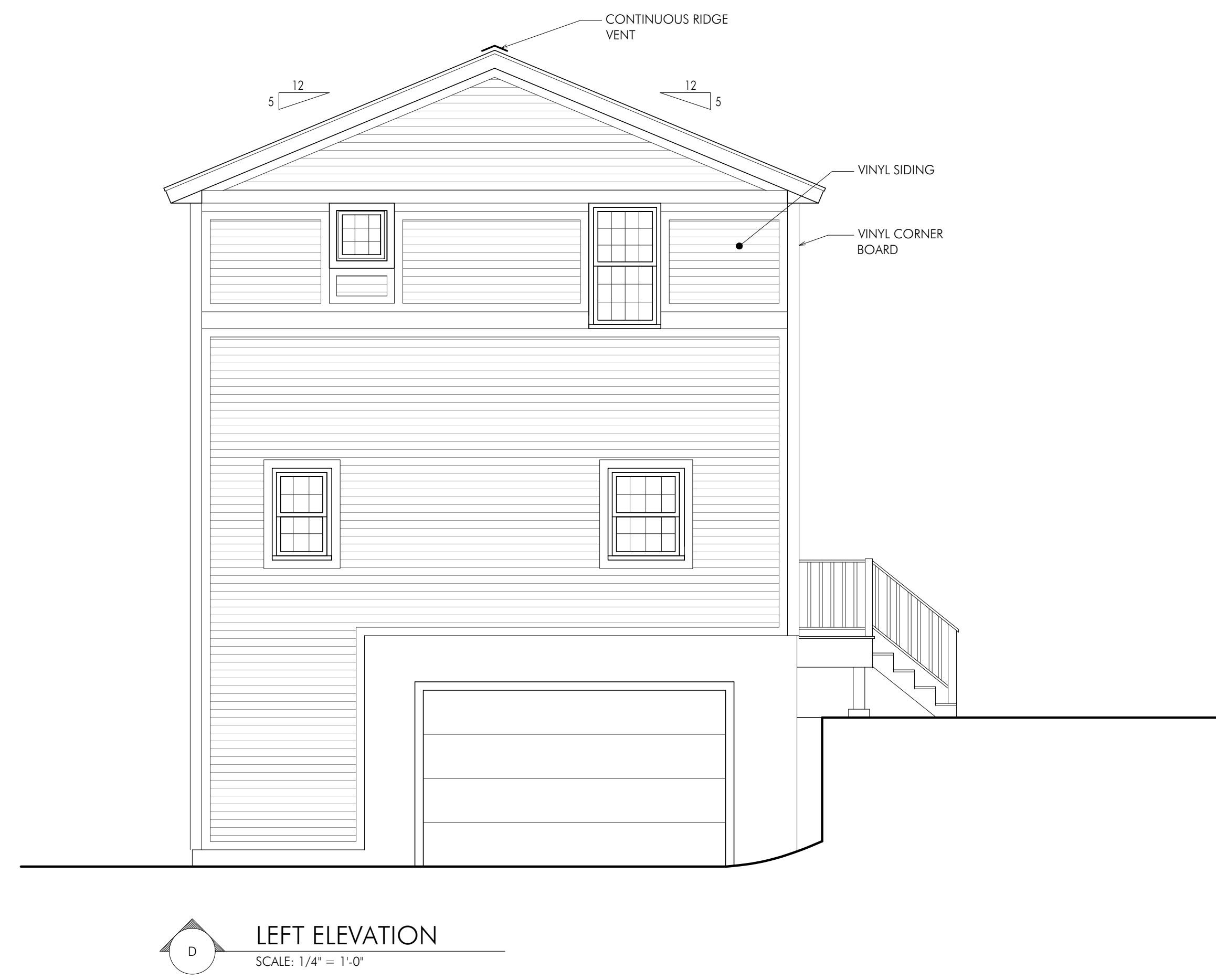
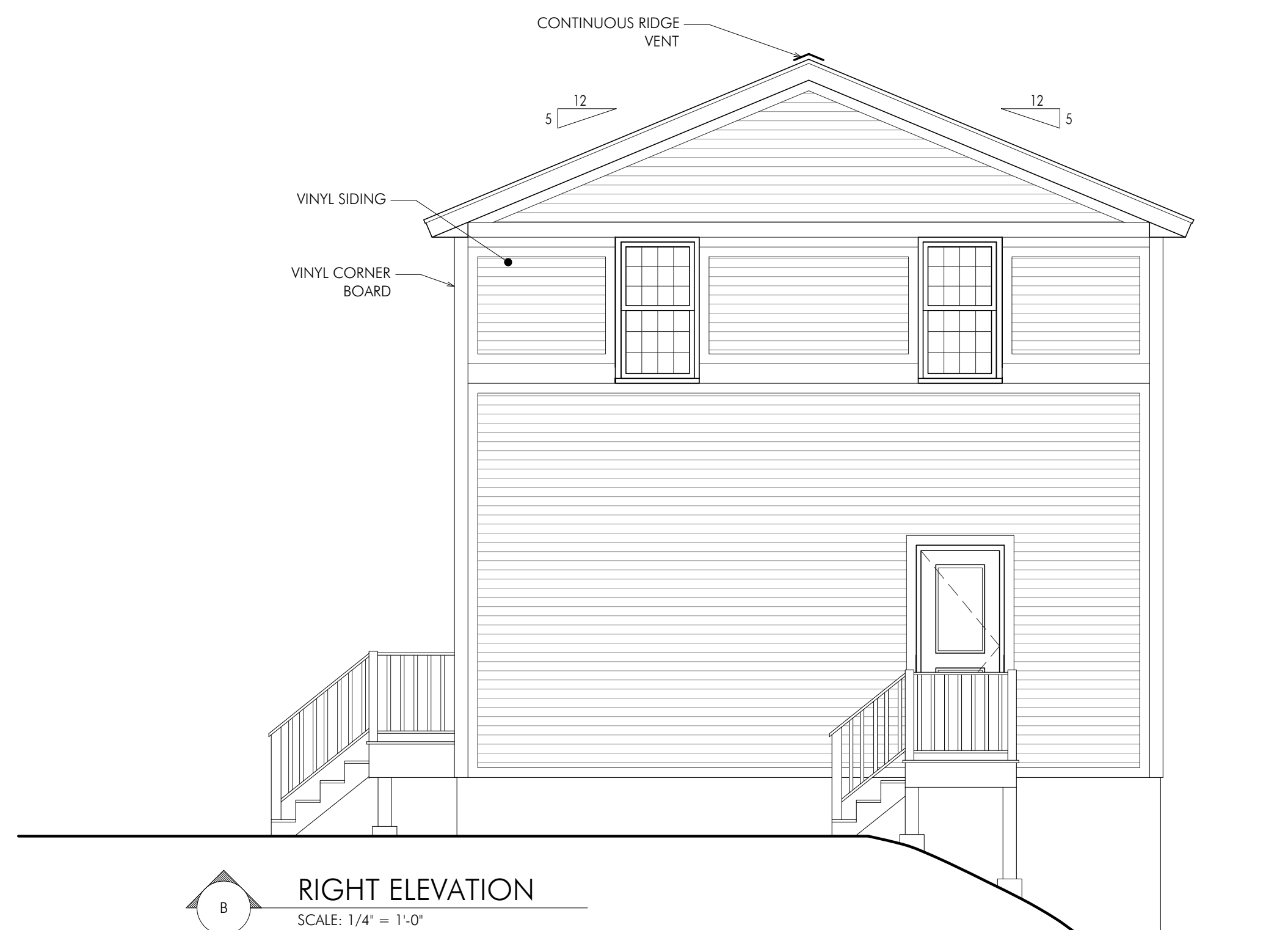
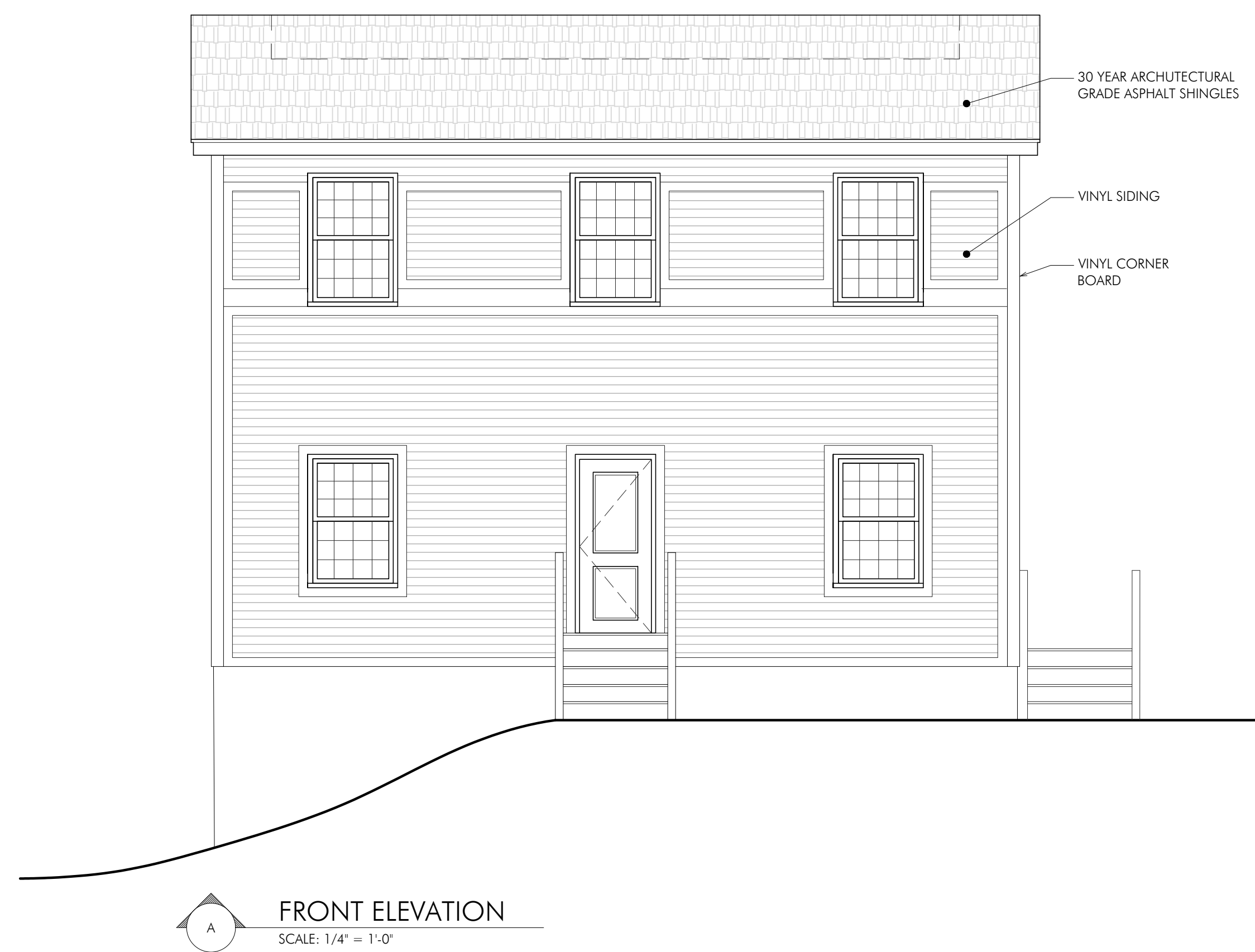
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A1.3

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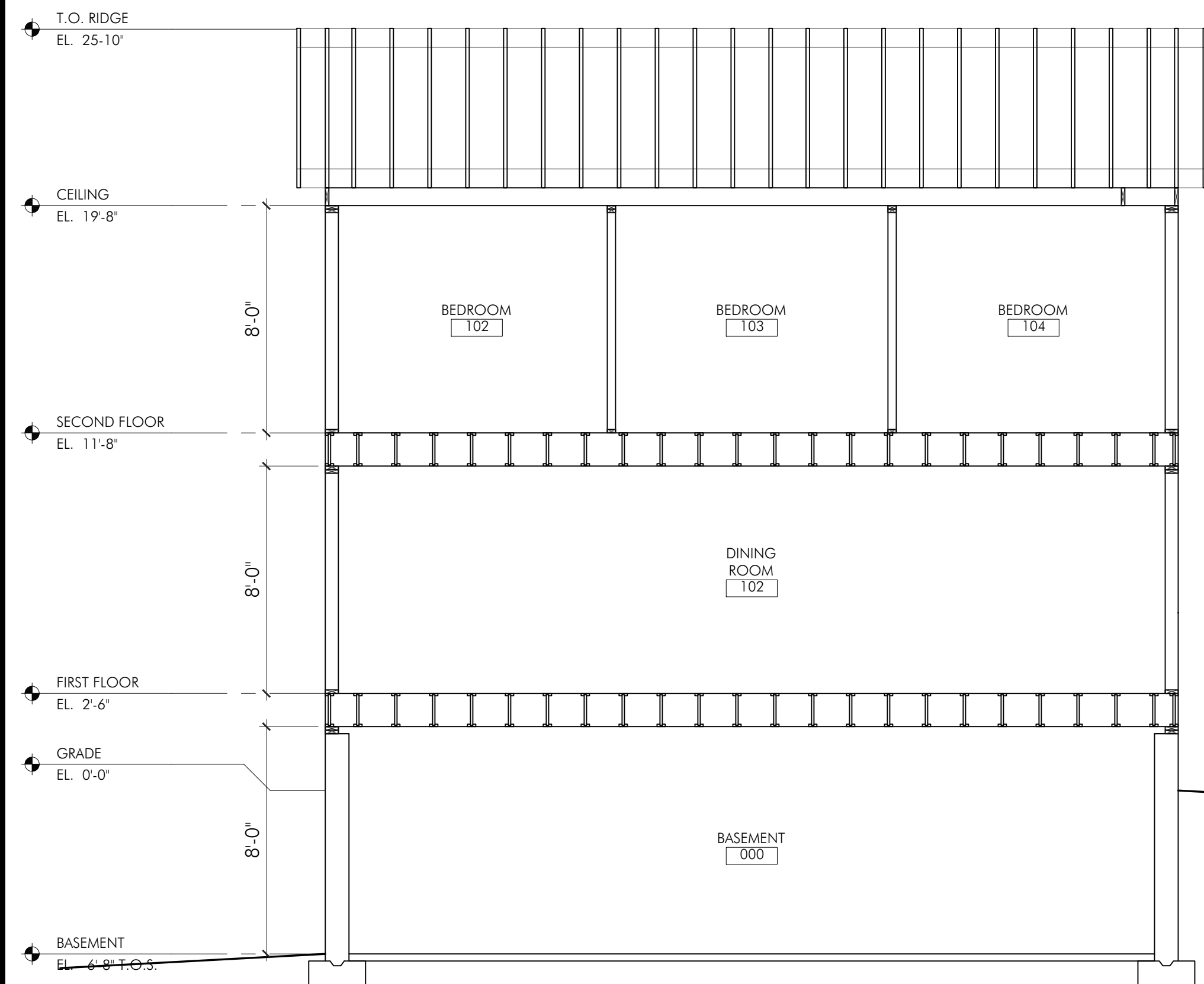
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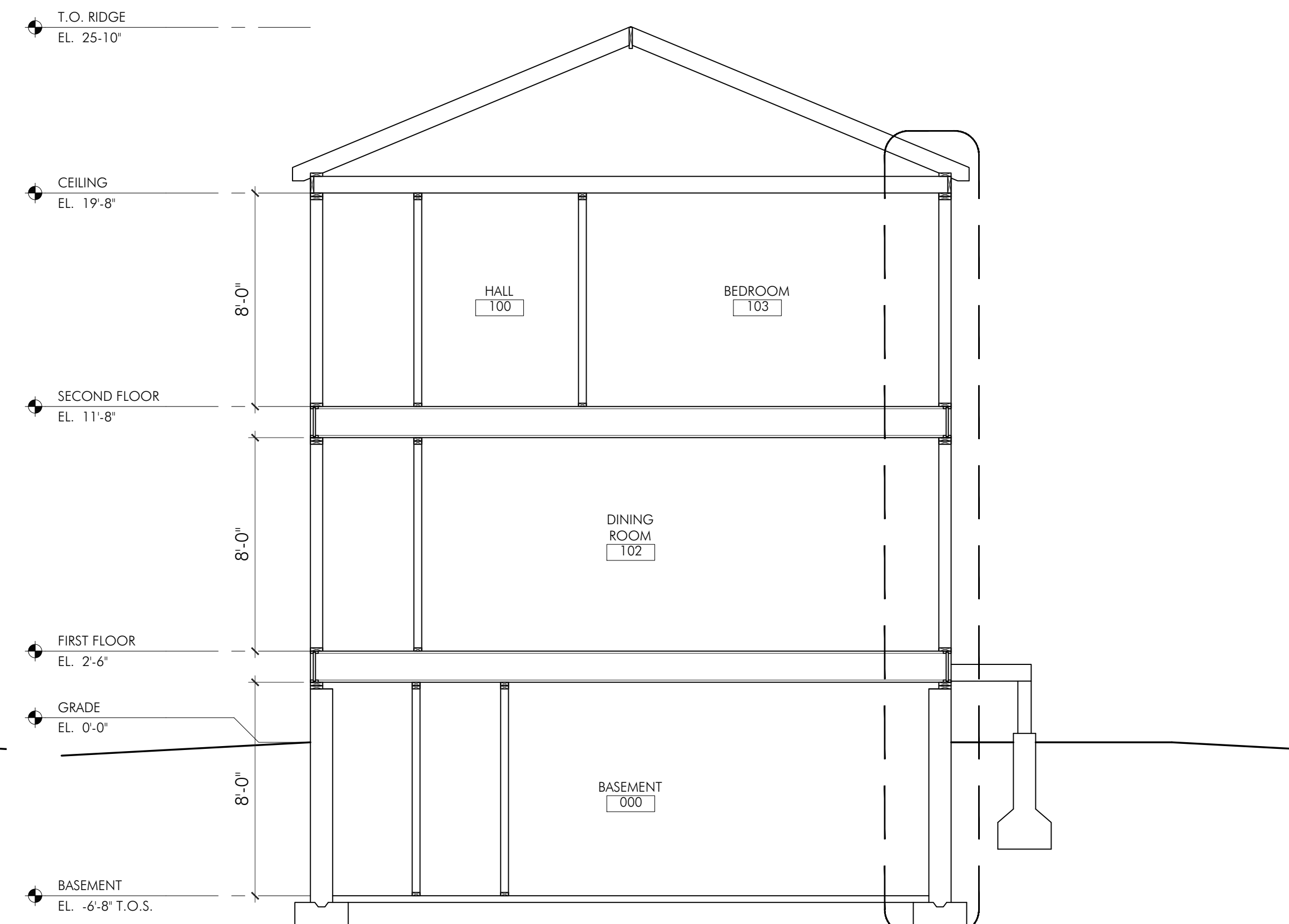
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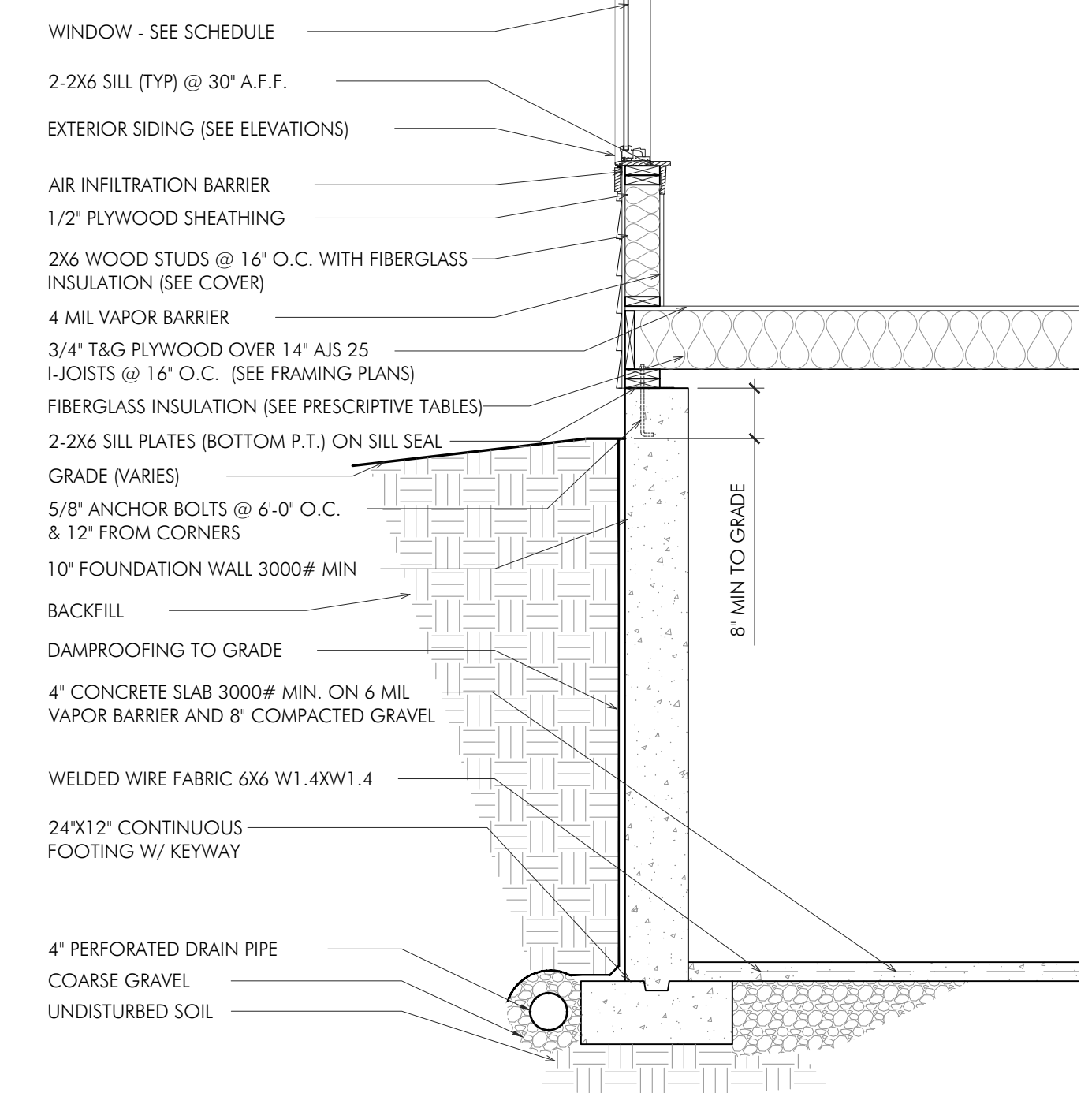
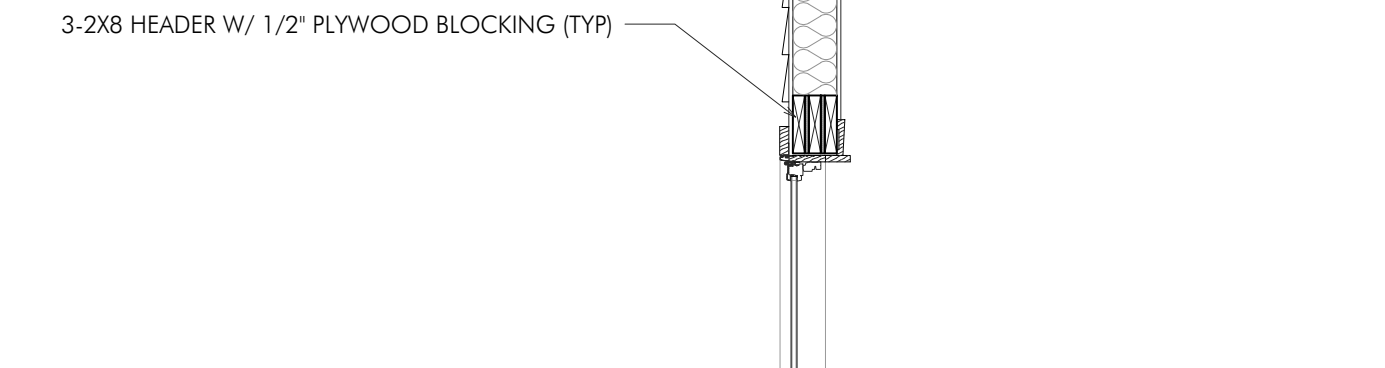
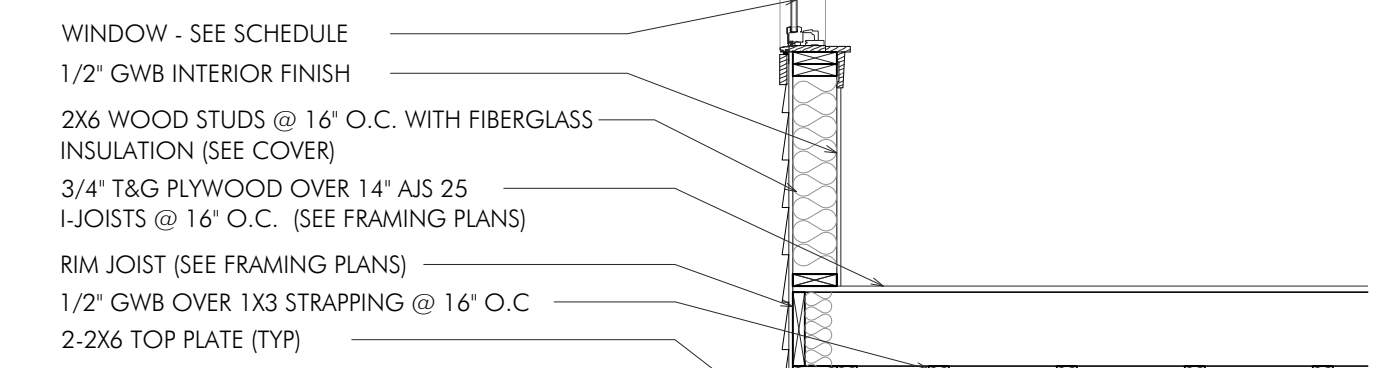
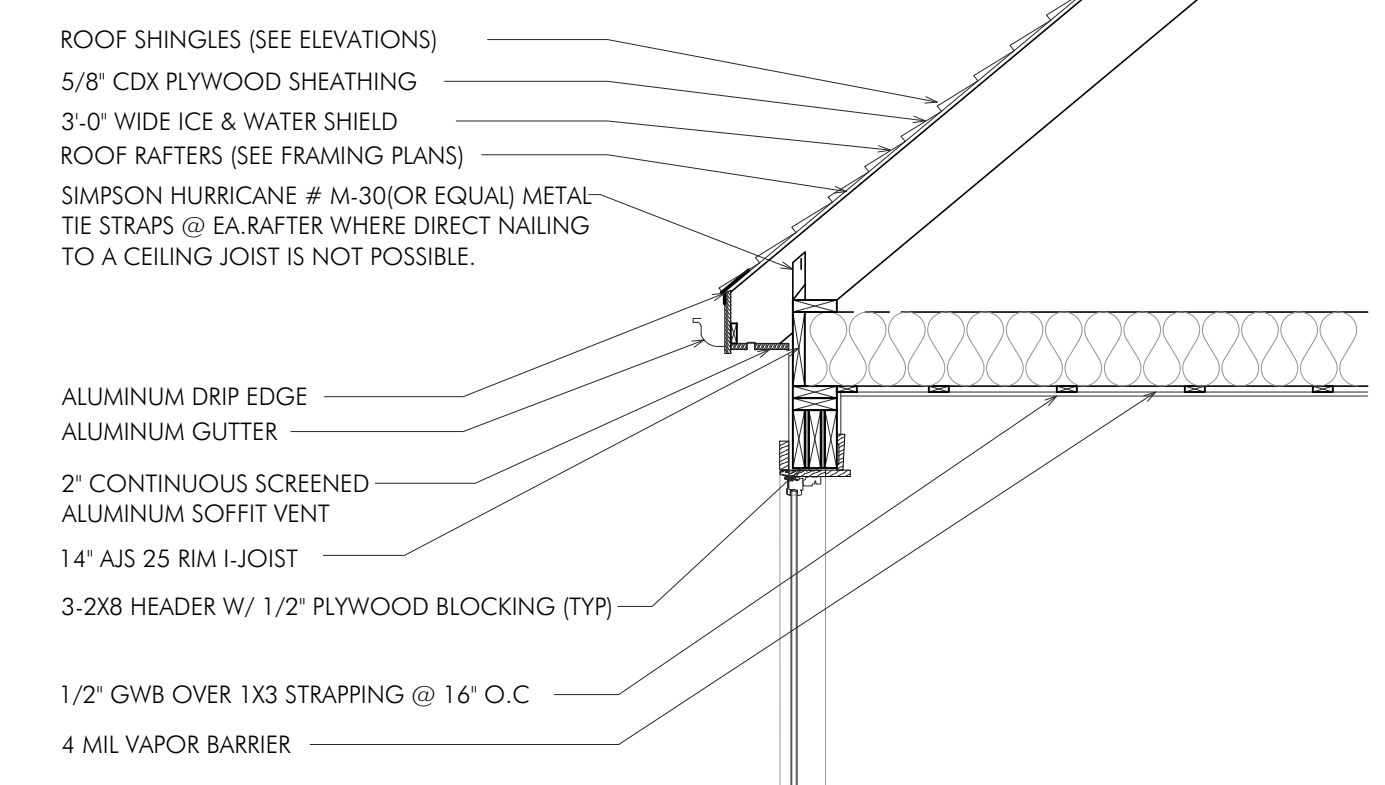
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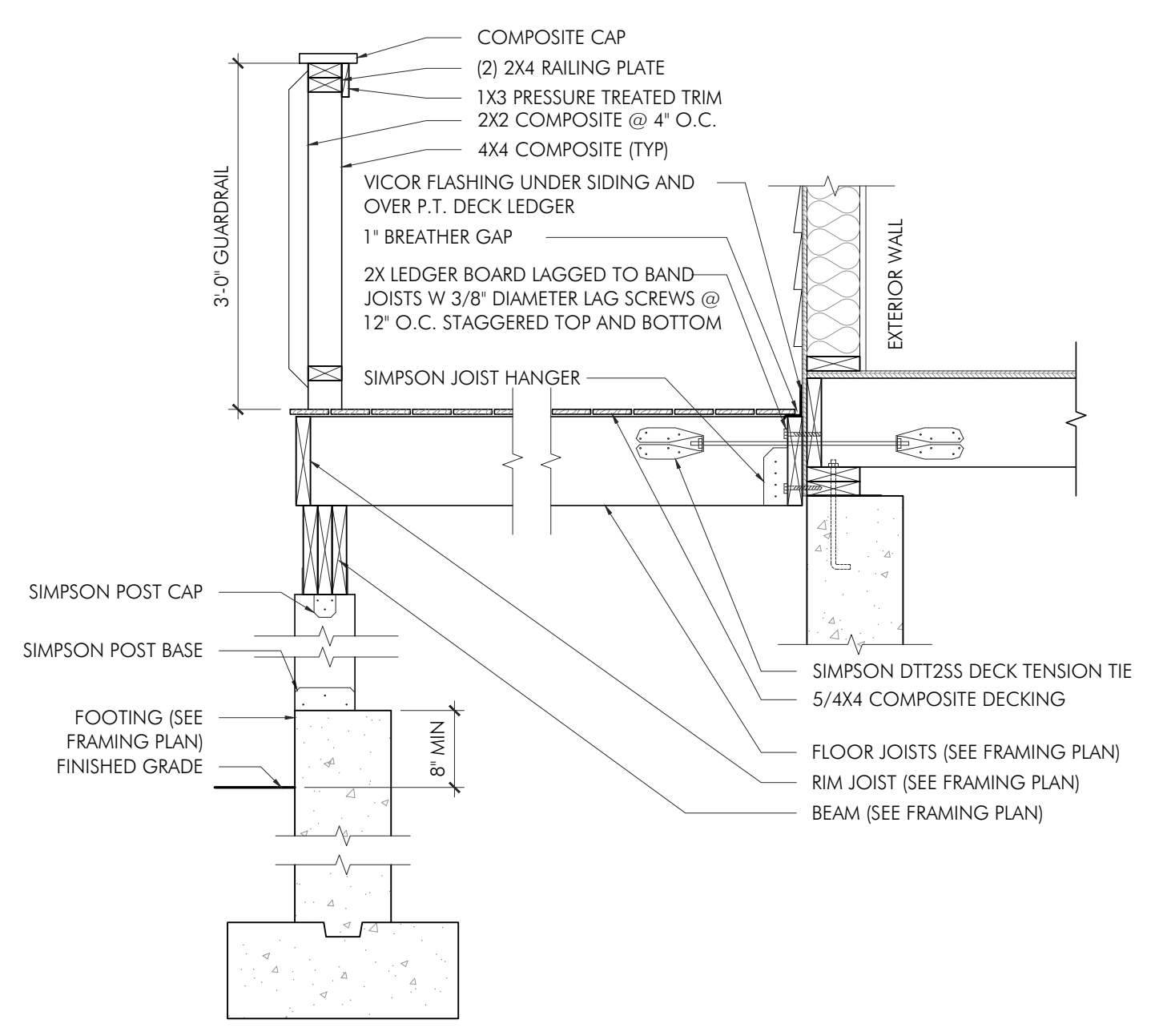
BUILDING SECTION A
SCALE: 1/4" = 1'-0"



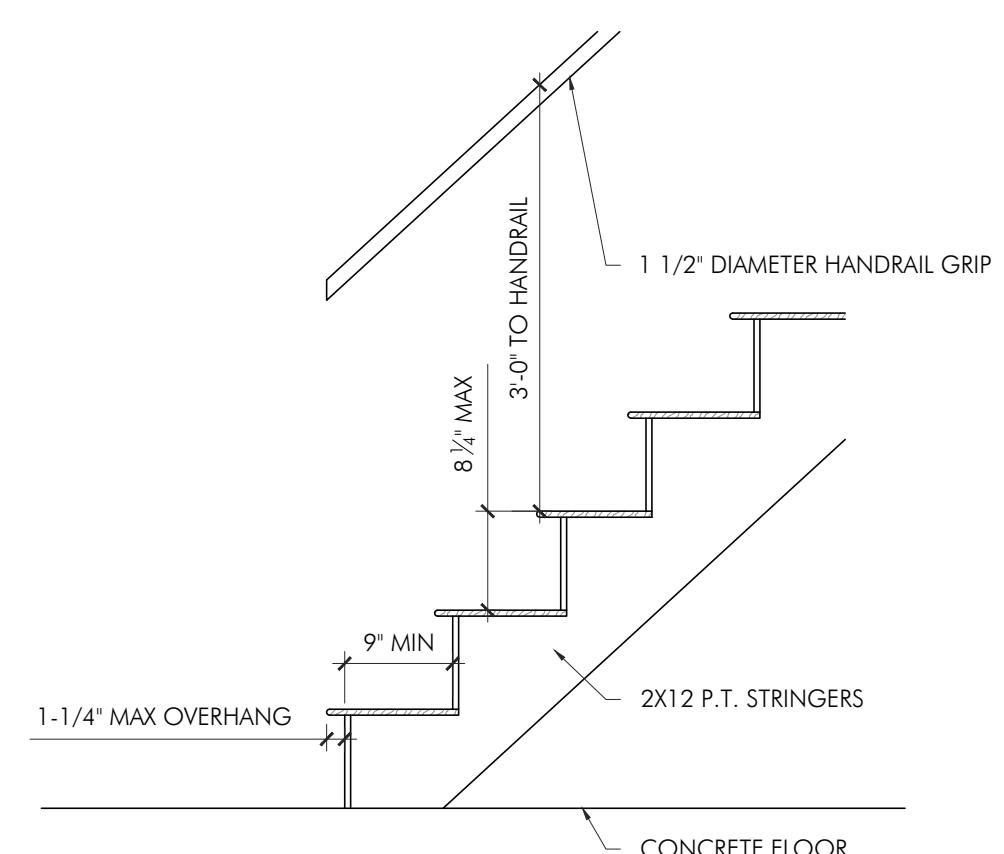
BUILDING SECTION B
SCALE: 1/4" = 1'-0"



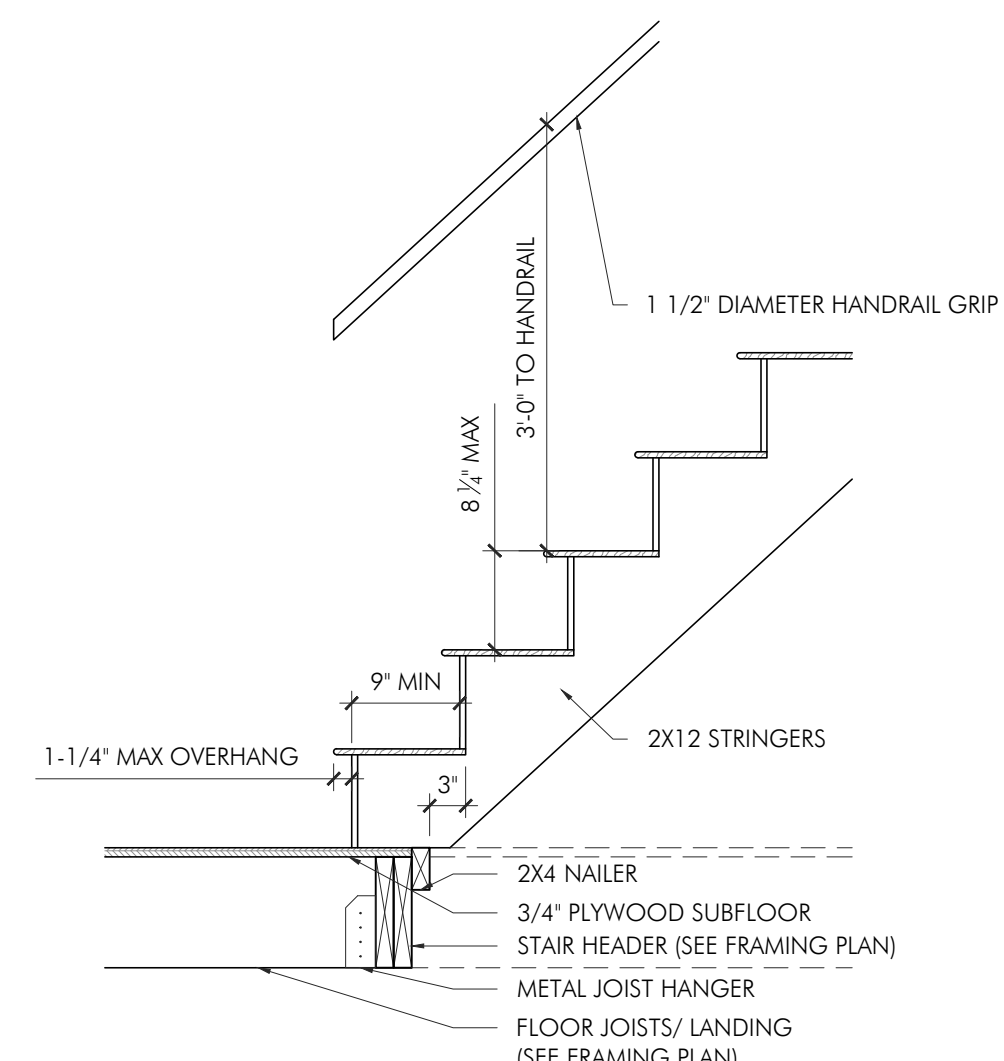
WALL SECTION Q
SCALE: 1/2" = 1'-0"



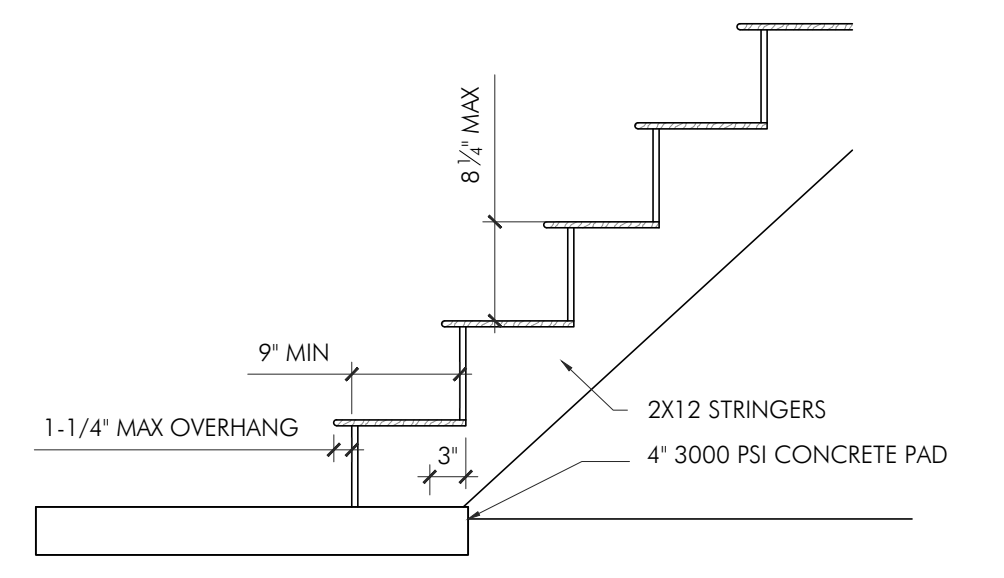
DECK DETAIL D
SCALE: 3/4" = 1'-0"



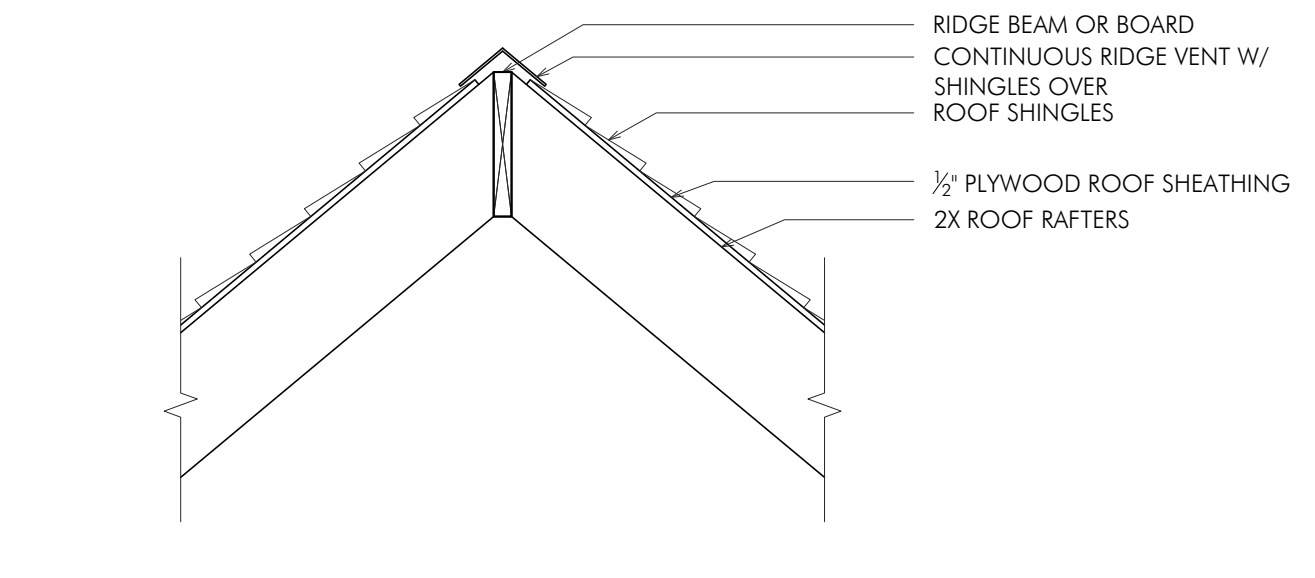
STAIR DETAIL E
SCALE: 3/4" = 1'-0"



RESIDENTIAL STAIR DETAIL G
SCALE: 3/4" = 1'-0"



STAIR DETAIL F
SCALE: 3/4" = 1'-0"



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

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BUILDING SECTIONS
DETAILS

DRAWING NUMBER:

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