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BRIAN J. PILLING, AIA 736 RIDGE POINT DRIVE COROLLA, NC 27927 PHONE 252-202-7550

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LOCAL PROFESSIONAL'S SEAL

AMHERST

#91818

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REVISIONS

NO

DATE

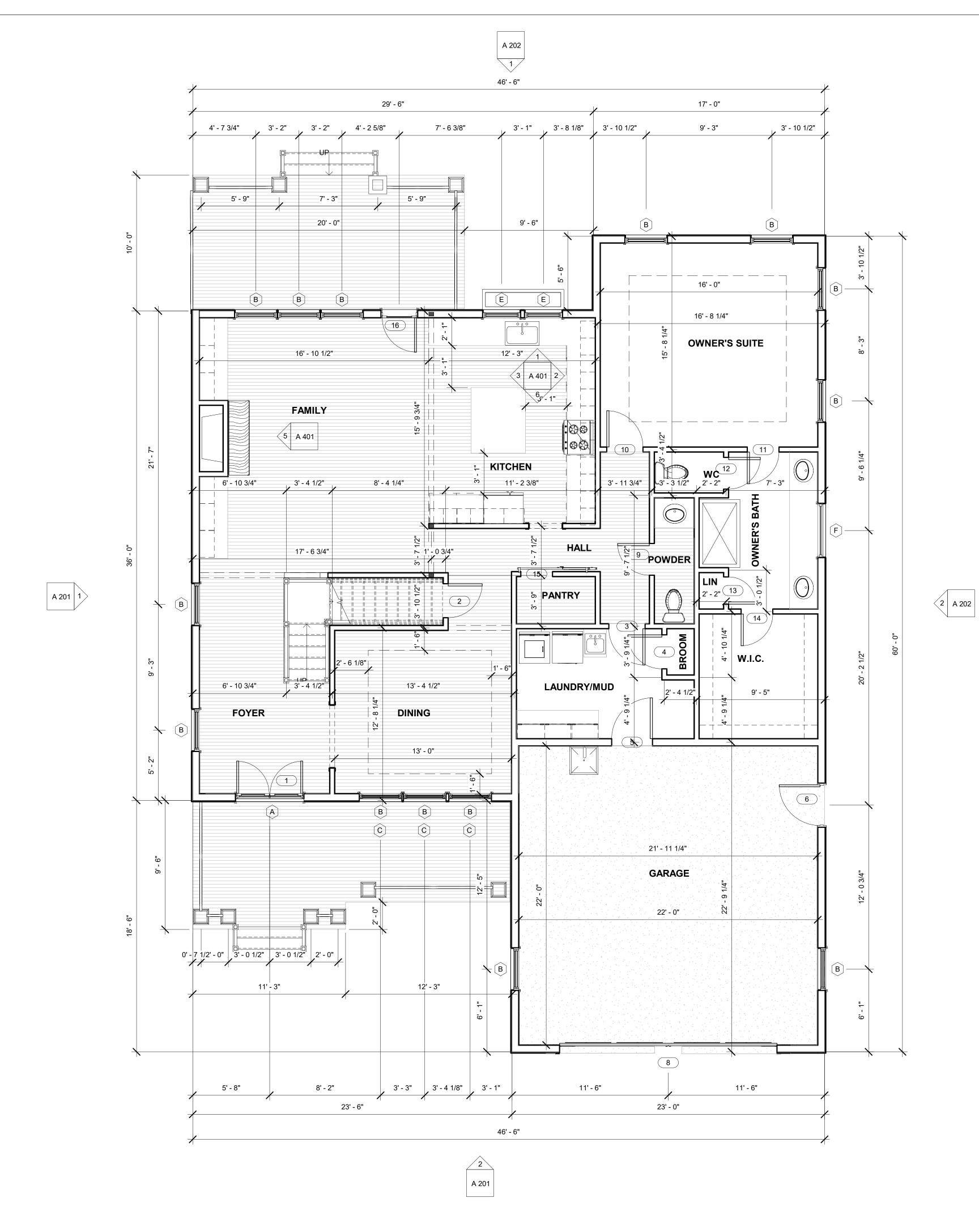
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SHEET NUMBER

DATE/DESCRIPTION

ARIAL VIEW







BRIAN J. PILLING, AIA 736 RIDGE POINT DRIVE COROLLA, NC 27927 PHONE 252-202-7550

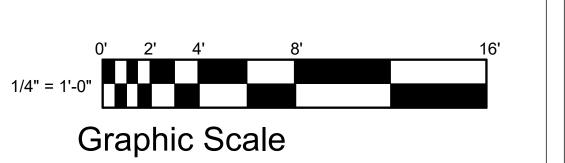
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1331 SAINT ANDREWS DR. MEBANE, NC 27302 PHONE: 919-563-1818 LAURADOWDS@LIVE.COM WWW.DOWDSDESIGNCOLLECTION.COM

Door Schedule										
Mark	Туре	Width	Height							
1	5068 FRONT ENTRY	5' - 0"	6' - 8"							
2	2668	2' - 6"	6' - 8"							
3	2868	2' - 8"	6' - 8"							
4	2668	2' - 6"	6' - 8"							
5	3068	3' - 0"	6' - 8"							
6	3068 ENTRY	3' - 0"	6' - 8"							
8	16/0x8/0	16' - 0"	8' - 0"							
9	2468	2' - 4"	6' - 8"							
10	2868	2' - 8"	6' - 8"							
11	2468	2' - 4"	6' - 8"							
12	2468	2' - 4"	6' - 8"							
13	2068	2' - 0"	6' - 8"							
14	2468	2' - 4"	6' - 8"							
15	BARN	2' - 4"	6' - 8"							
16	2880 FRENCH	2' - 8"	8' - 0"							
17	2868	2' - 8"	6' - 8"							
18	4068 DOUBLE	4' - 0"	6' - 8"							
19	2468	2' - 4"	6' - 8"							
20	2668	2' - 6"	6' - 8"							
21	2468	2' - 4"	6' - 8"							
22	2068	2' - 0"	6' - 8"							
23	2868	2' - 8"	6' - 8"							
24	4068 DOUBLE	4' - 0"	6' - 8"							

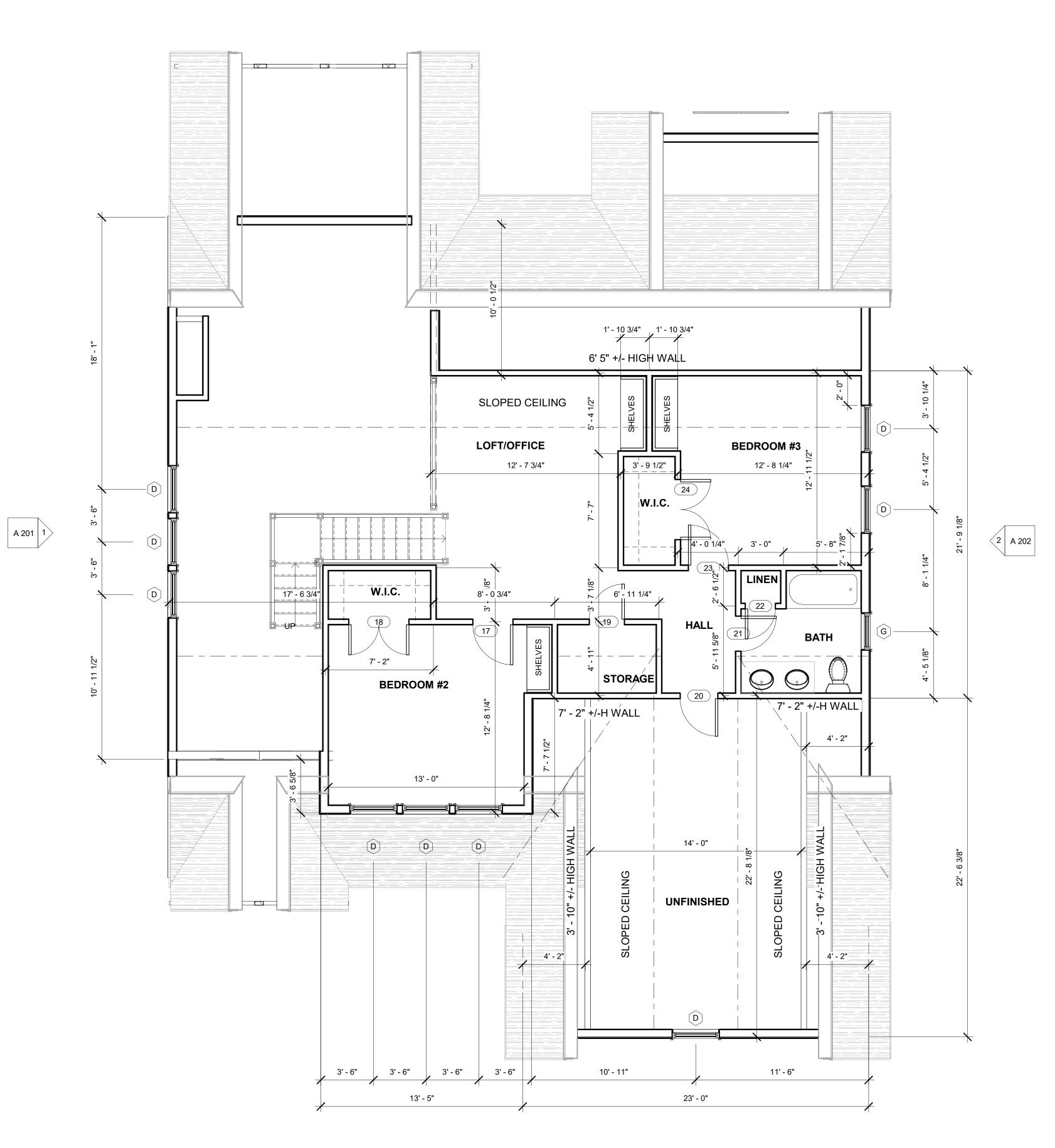
	V	/indow Schedule	
Type Mark	Rough Width	Rough Height	Туре
A	5' - 0 1/2"	1' - 6 1/2"	5016 TRANSOM
В	3' - 2 1/8"	5' - 4 7/8"	3052 DOUBLE HUNG
С	3' - 2 1/8"	1' - 6 1/2"	3016 TRANSOM
D	3' - 2 1/8"	4' - 8 7/8"	3046 DOUBLE HUNG
E	2' - 10 1/8"	4' - 0 7/8"	28310 DOUBLE HUNG
F	4' - 0 1/2"	4' - 0 1/2"	4040 FIXED
G	2' - 6 1/8"	4' - 0 7/8"	24310 DOUBLE HUNG

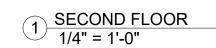


	PLAN #91818 - AMHERST	FIRST FLOOR PLAN
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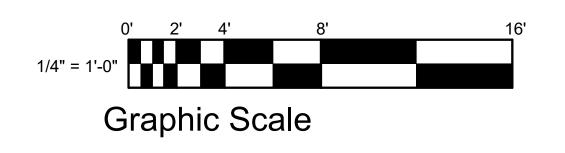
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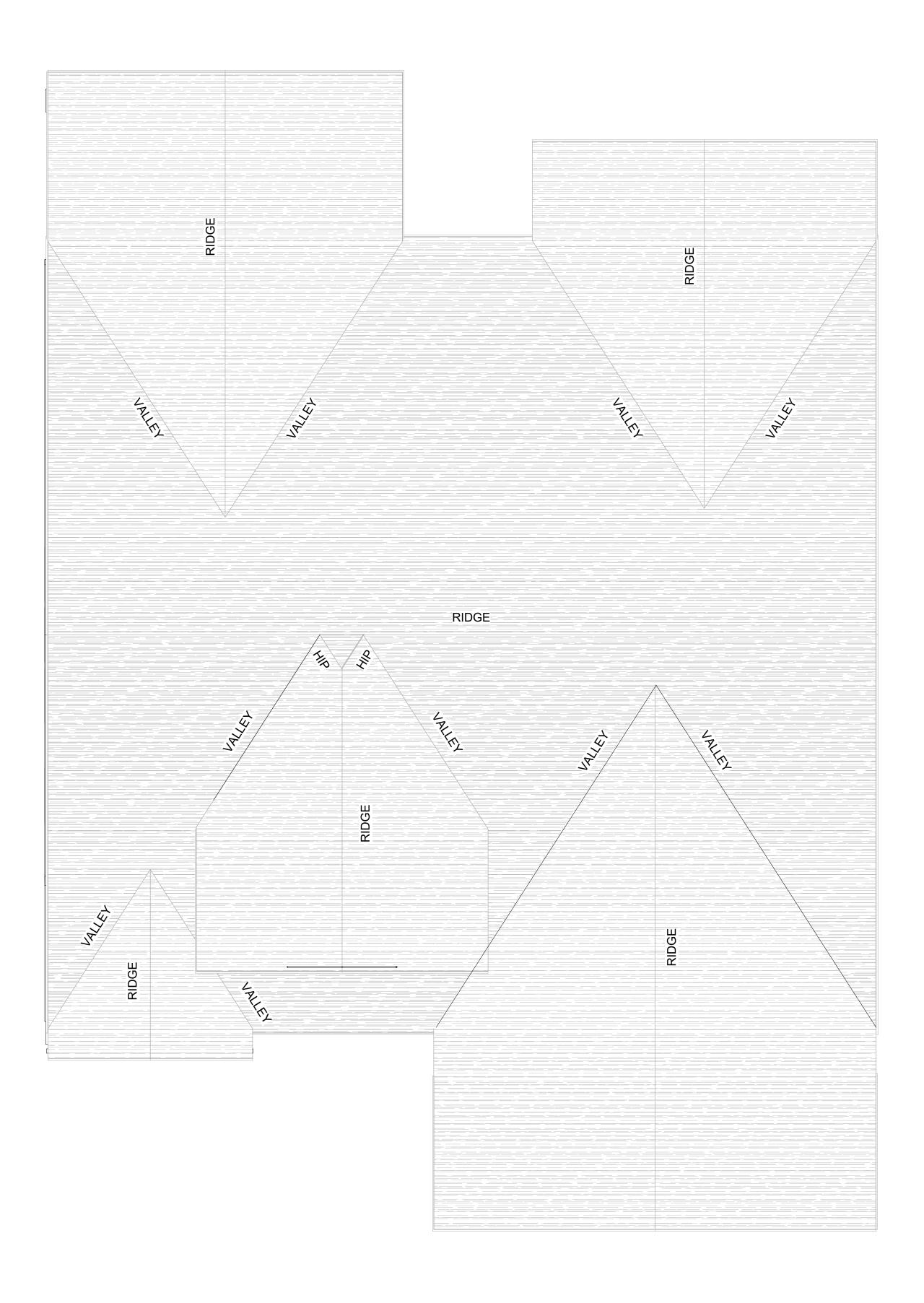
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PLAN #01818 - AMHERST		SECOND FLOOR PLAN
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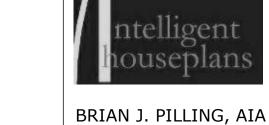
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1 ROOF PLAN 1/4" = 1'-0"

2 A 202





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FIRE BLOCKING

PROVIDE FIRE/DRAFTSTOPPING AS PER BUILDING CODE MAXIMUM AREA OF CONCEALED SPACE IS TO ME 1000 SQ. FT.

PROVIDE FIRE BLOCKING IN CONCEALED SPACES OF STUDS VERTICALLY AT CEILING AND FLOOR LEVELS

HORIZONTALLY AT INTERVALS NOT EXCEEDING 10' - 0"

AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORZONTAL SPACES IN SPACES BETWEEN STAIR STRINGERS AT TOP AND BOTTOM OF RUN AT OPENINGS AROUND VENTS, PIPES AND DUCTS AT CEILING AND FLOOR LEVELS

NOTE:

ALL RIDGE, VALLEY AND RAFTER BRACING TO BEAR ON LOAD BEARING WALLS DESIGNED TO CARRY LOAD THROUGH ALL LEVELS AND TERMINATE AT FOUNDATION DESIGNED TO CARRY LOAD. **NOTE:** SEE SHEET S105 FOR ROOF FRAMING SIZES (STICK BUILT)

NOTE:

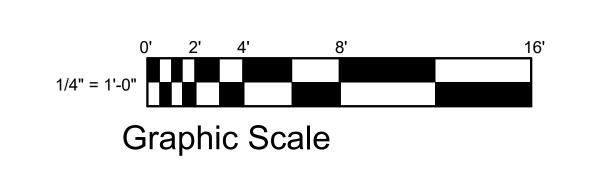
FIELD VERIFY ALL BEARING HEIGHTS

NOTE: ROOF OVERHANG IS 1'- 4" UNLESS NOTED OTHERWISE

NOTE:

VENTILATION SHALL COMPLY WITH CODE. ENCLOSED ATTICS AND ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATION OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATING OPENINGS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE MESH.

NOTE: PROVIDE RIDGE VENTS AS CALCULATED TO MEET CODE



#91818 - AMHERST

PLAN

ROOF

PLAN #91

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DATE PLAN NUMBER

SHEET NUMBER







1 <u>LEFT ELEVATION</u> 1/4" = 1'-0"

2 FRONT ELEVATION 1/4" = 1'-0"



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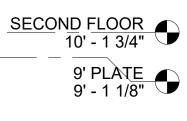
XTERIOR ELEVATIONS

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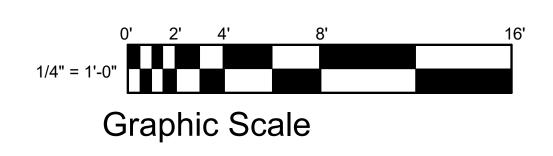
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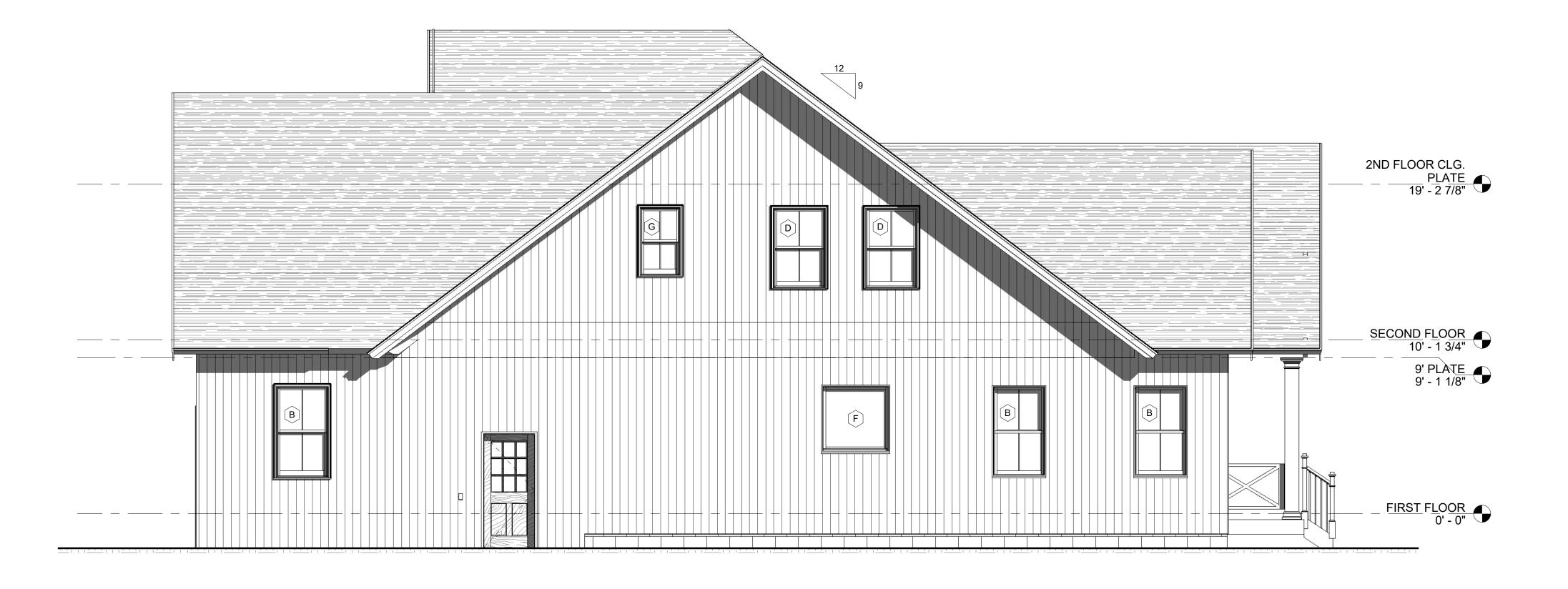






Window Schedule											
Type Mark	Rough Width	Rough Height	Туре								
	1										
А	5' - 0 1/2"	1' - 6 1/2"	5016 TRANSOM								
В	3' - 2 1/8"	5' - 4 7/8"	3052 DOUBLE HUNG								
С	3' - 2 1/8"	1' - 6 1/2"	3016 TRANSOM								
D	3' - 2 1/8"	4' - 8 7/8"	3046 DOUBLE HUNG								
E	2' - 10 1/8"	4' - 0 7/8"	28310 DOUBLE HUNG								
F	4' - 0 1/2"	4' - 0 1/2"	4040 FIXED								
G	2' - 6 1/8"	4' - 0 7/8"	24310 DOUBLE HUNG								







1 <u>REAR ELEVATION</u> 1/4" = 1'-0"



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EXTERIOR ELEVATIONS

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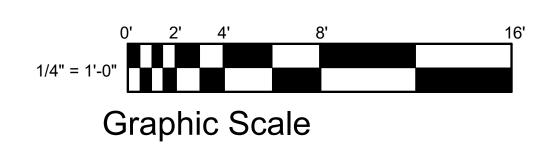
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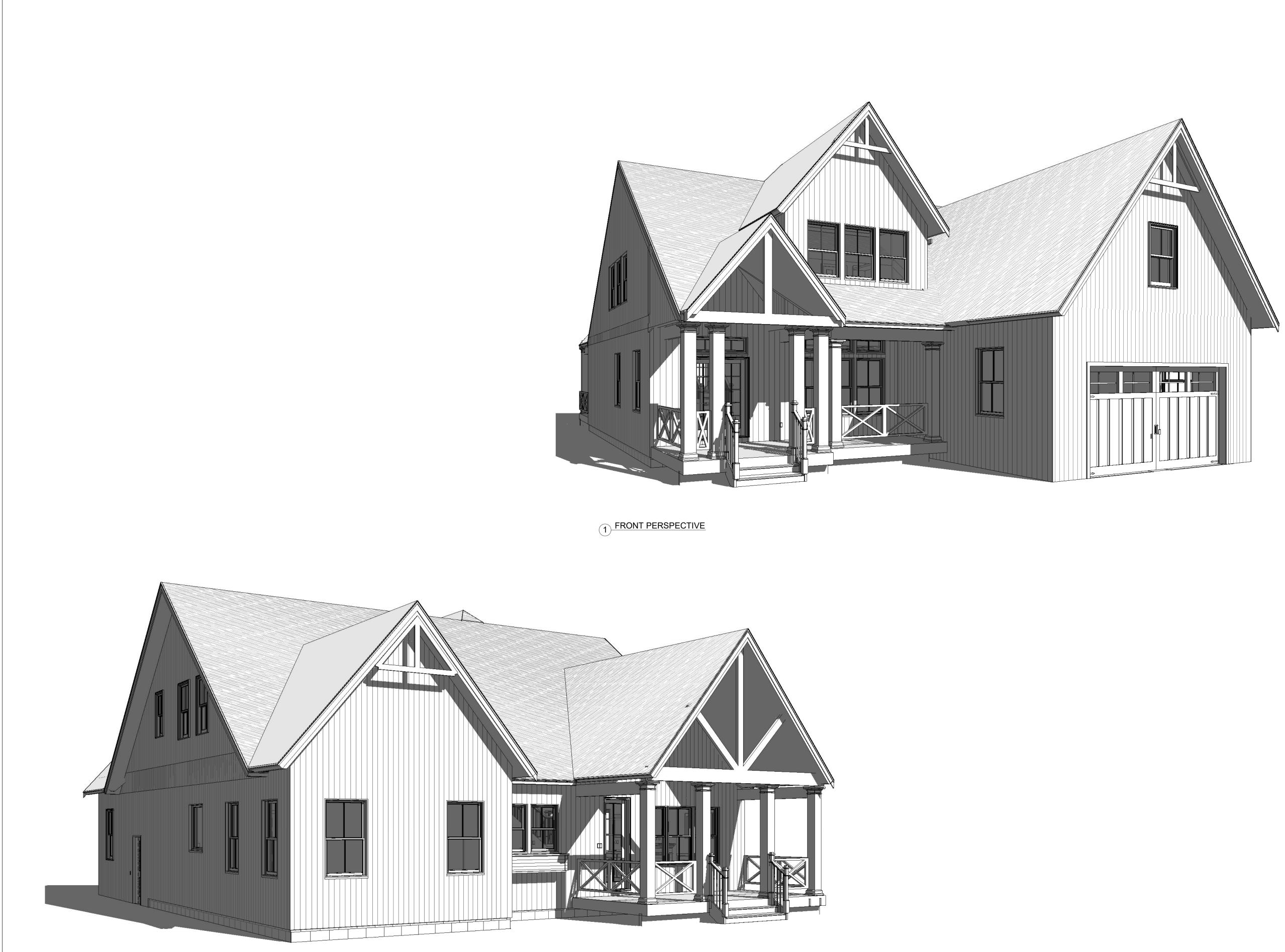
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2ND FLOOR CLG. — — <u>PLATE</u> 19' - 2 7/8" •

<u>SECOND</u> FLOOR 10' - 1 3/4" 9' PLATE 9' - 1 1/8"

FIRST FLOOR





2 REAR PERSPECTIVE

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ALL DRAWINGS SHOULD BE

EXTERIOR PERSPECTIVES



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16'		
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		• •

0' 2' 4'

Graphic Scale

1/4" = 1'-0"

8'

CONTINUOUS RIDGE VENT WITH SHINGLE CAP

FIBERGLASS SHINGLE ROOFING ON BUILDING PAPER ON 5/8" PLYWOOD ROOF SHEATHING SEE ROOF FRAMING PLAN S 105 FOR SIZE & SPACING "STICK FRAMED" ROOF

R-38 FIBERGLASS BATT INSULATION

CONTINUOUS EAVE VENTILATION 2X6 EXTERIOR STUD WALL WITH R-19 FIBERGLASS BATT INSULATION

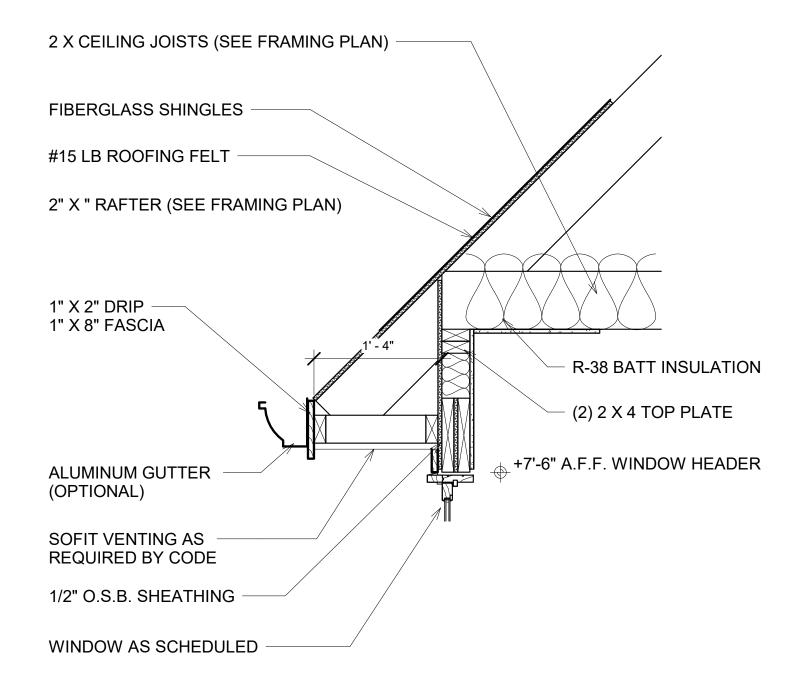
³⁄₄" T&G PLYWOOD SUB-FLOOR GLUED & SCREWED PRE-ENGINEERED FLOOR JOISTS (SEE FRAMING PLAN S103 FOR SIZE & SPACING)

REINFORCED CMU STEM WALL

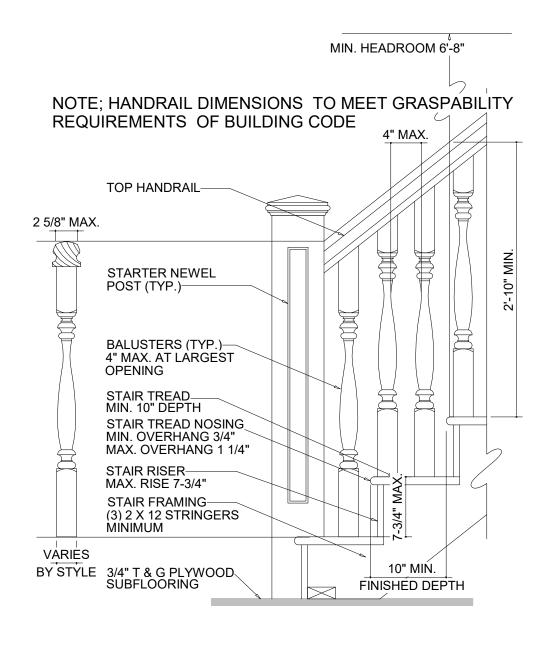
REINFORCED CONCRETE FOOTING

1 <u>BUILDING SECTION</u> 1/4" = 1'-0"

× ×







3 TYPICAL STAIR DETAIL 1" = 1'-0"



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SECTION

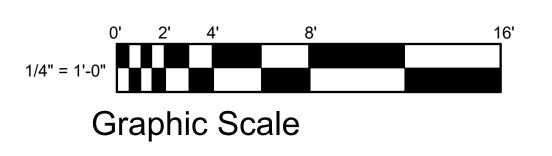
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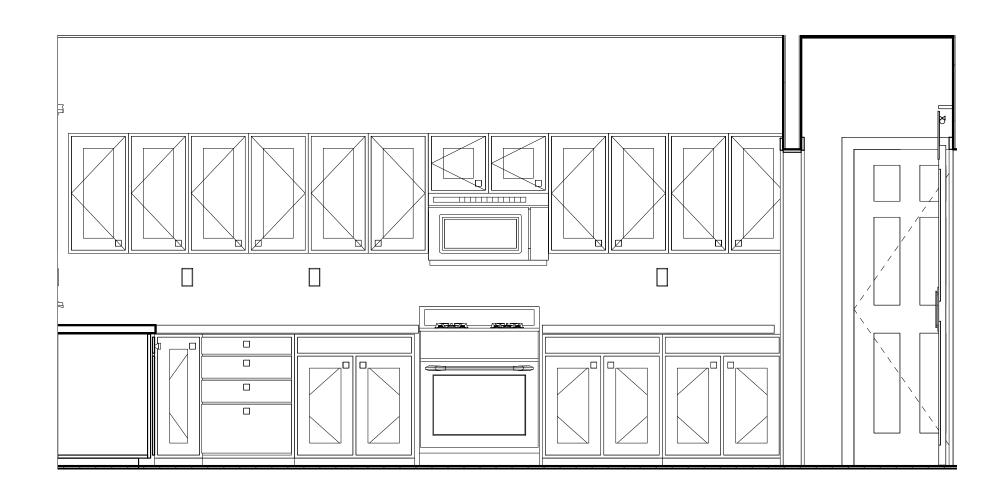
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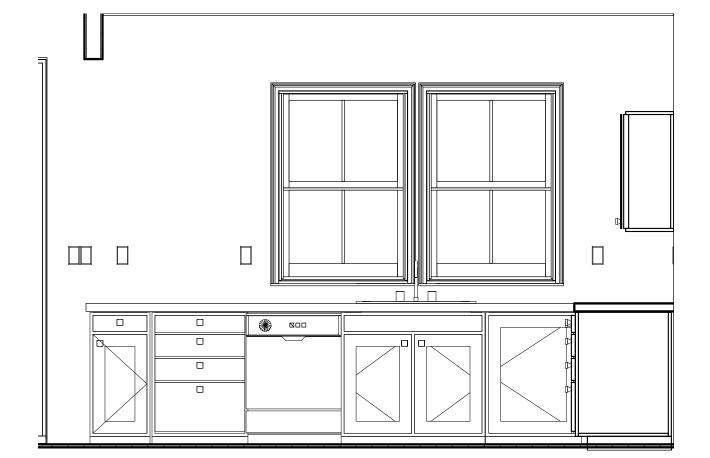
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1 <u>KITCHEN ELEVATION "A"</u> 1/2" = 1'-0"

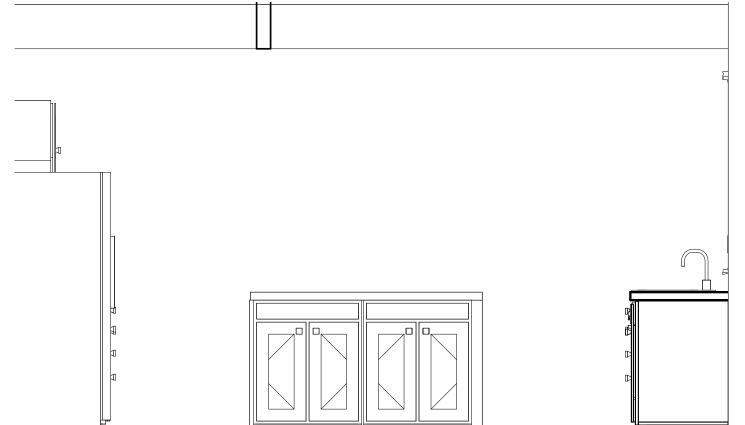






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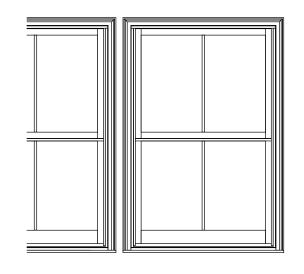
3 <u>KITCHEN ELEVATION "C"</u> 1/2" = 1'-0"



NOTE: REVIEW WITH OWNER LOCATIONS FOR CROWN MOLDING, WAINSCOT,CHAIR RAIL , BUILT-INS & SIMILAR ITEMS

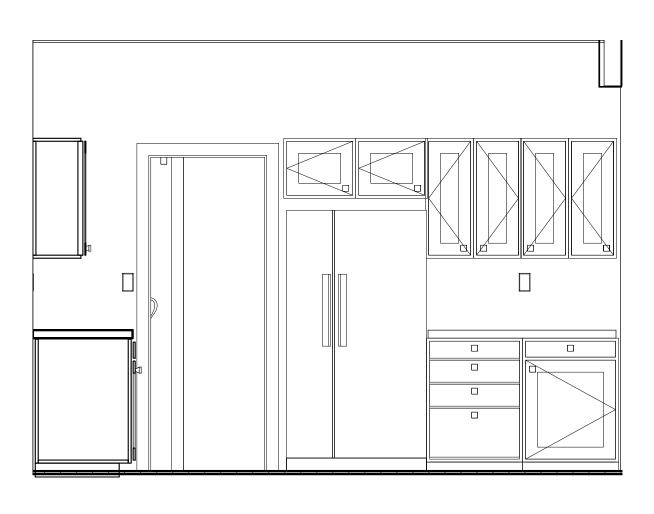
NOTE: REVIEW WITH OWNER CABINETRY & COUNTERTOP SELECTIONS FOR FINISHES STYLES & ACCESSORIES

INTERIOR PERSPECTIVE - FAMILY



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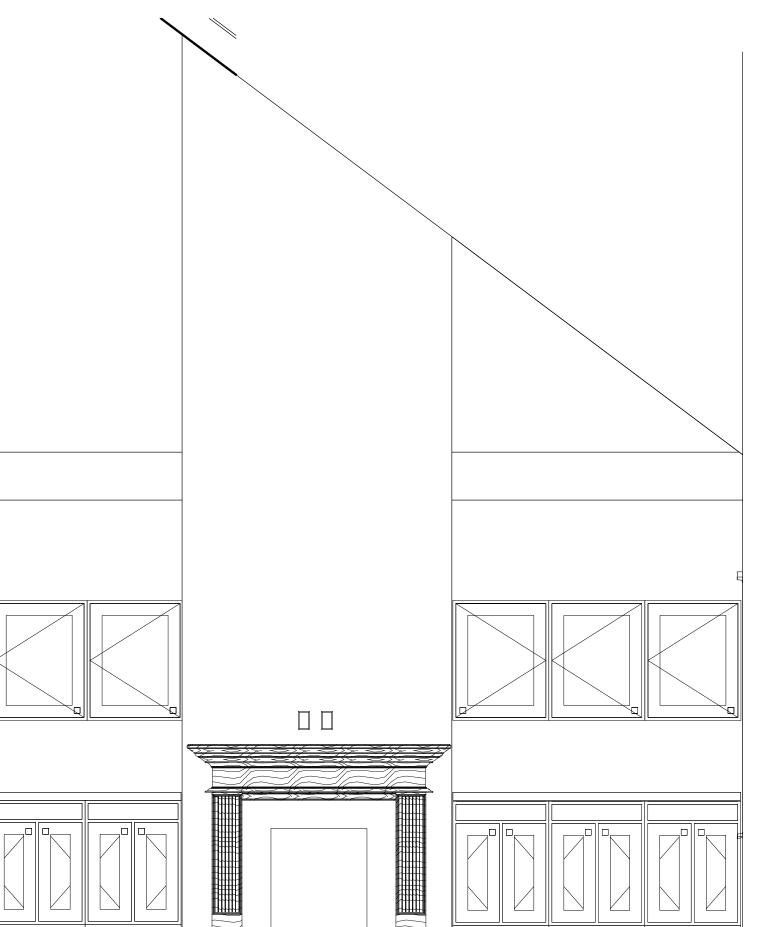
5 INTERIOR ELEVATION - FAMILY ROOM 1/2" = 1'-0"



6 KITCHEN ELEVATION "D" 1/2" = 1'-0"



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ELEVATIONS & PERSPECTIVES INTERIOR

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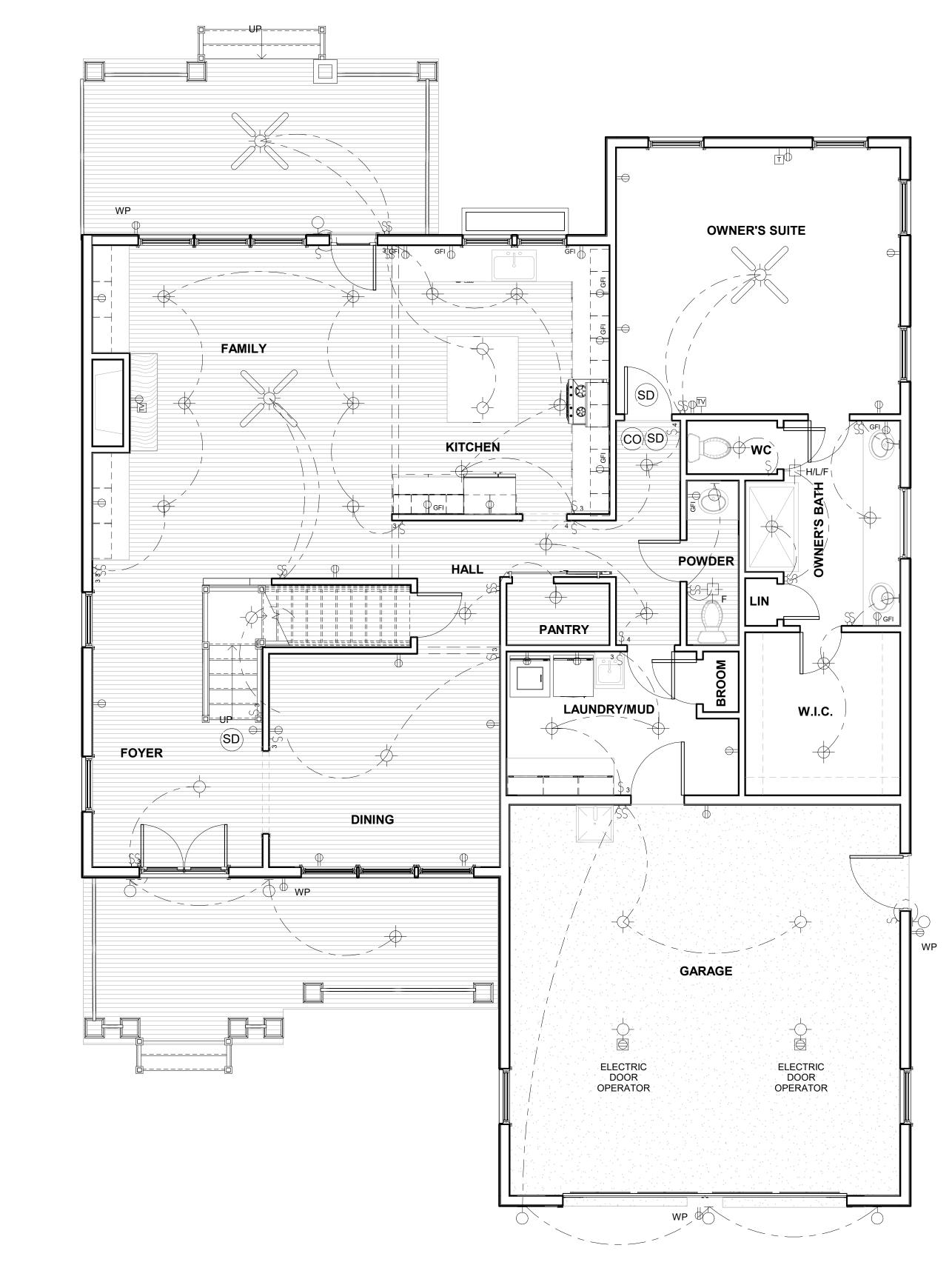
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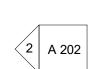
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1 FIRST FLOOR ELECTRICAL PLAN 1/4" = 1'-0"

A 201 1

CO
CARBON MONOXIDE DETECTOR
SD
SMOKE DETECTOR
RECESSED "CAN" LIGHT FIXTURE
SURFACE MOUNTED FIXTURE
SURFACE MOUNTED LIGHT FIXTURE
HEAT/FAN/LIGHT
FLOOR OUTLET





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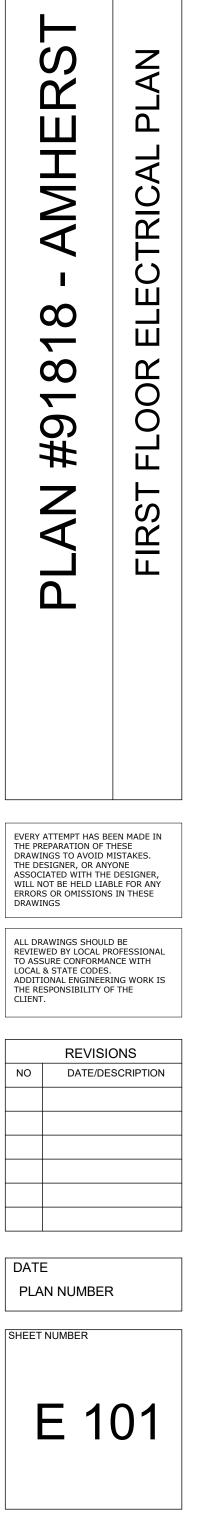
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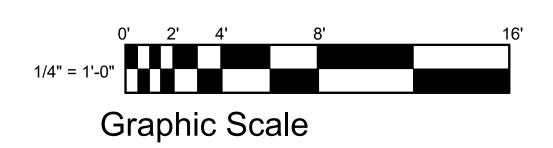
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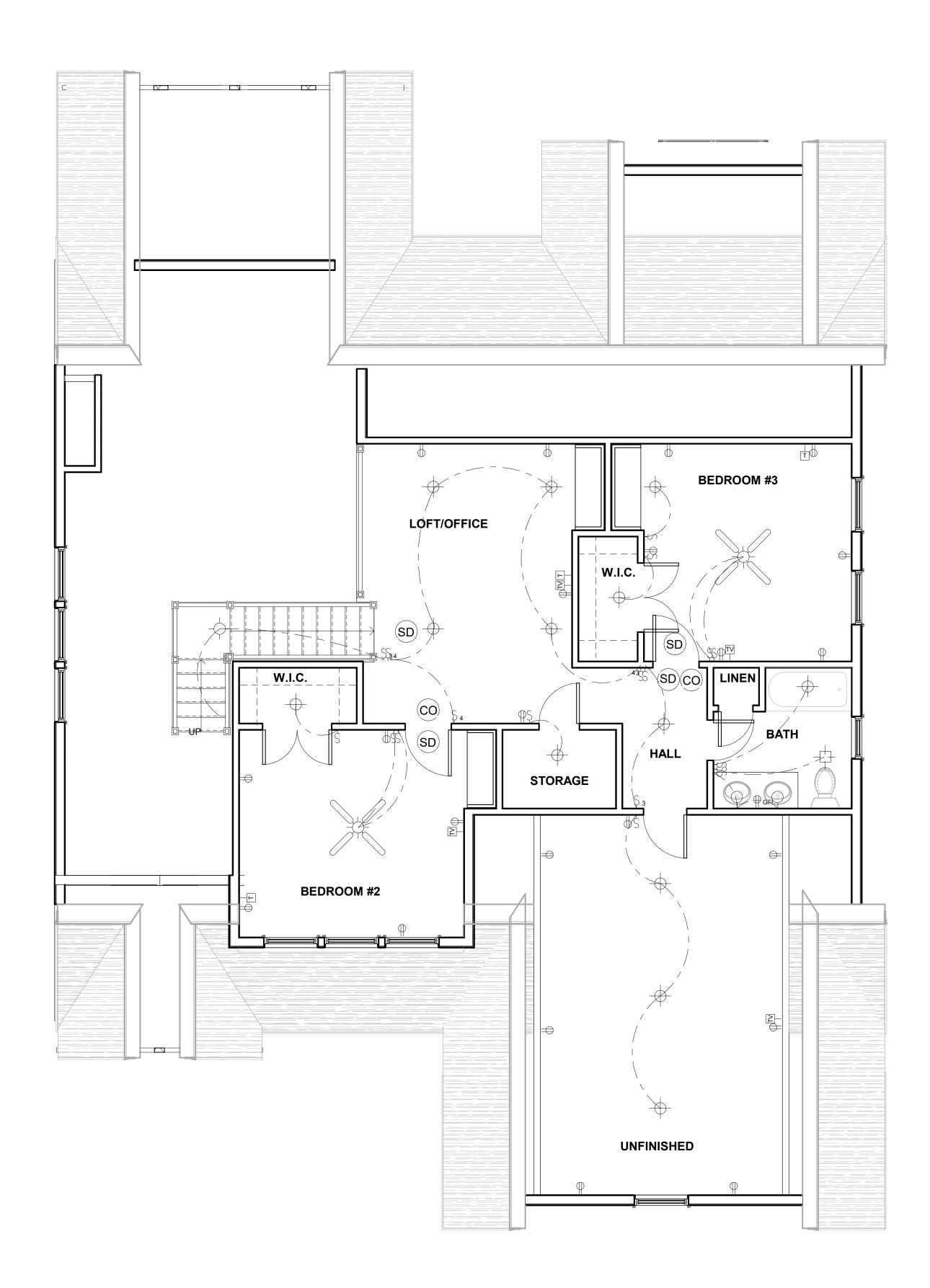
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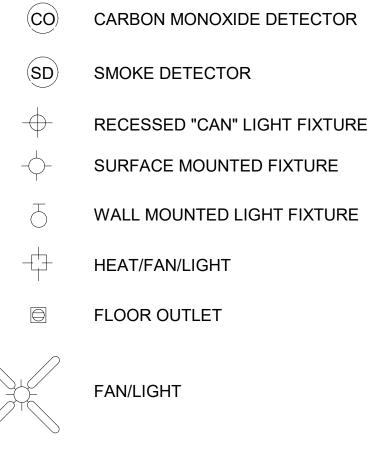






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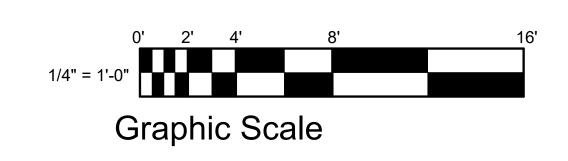
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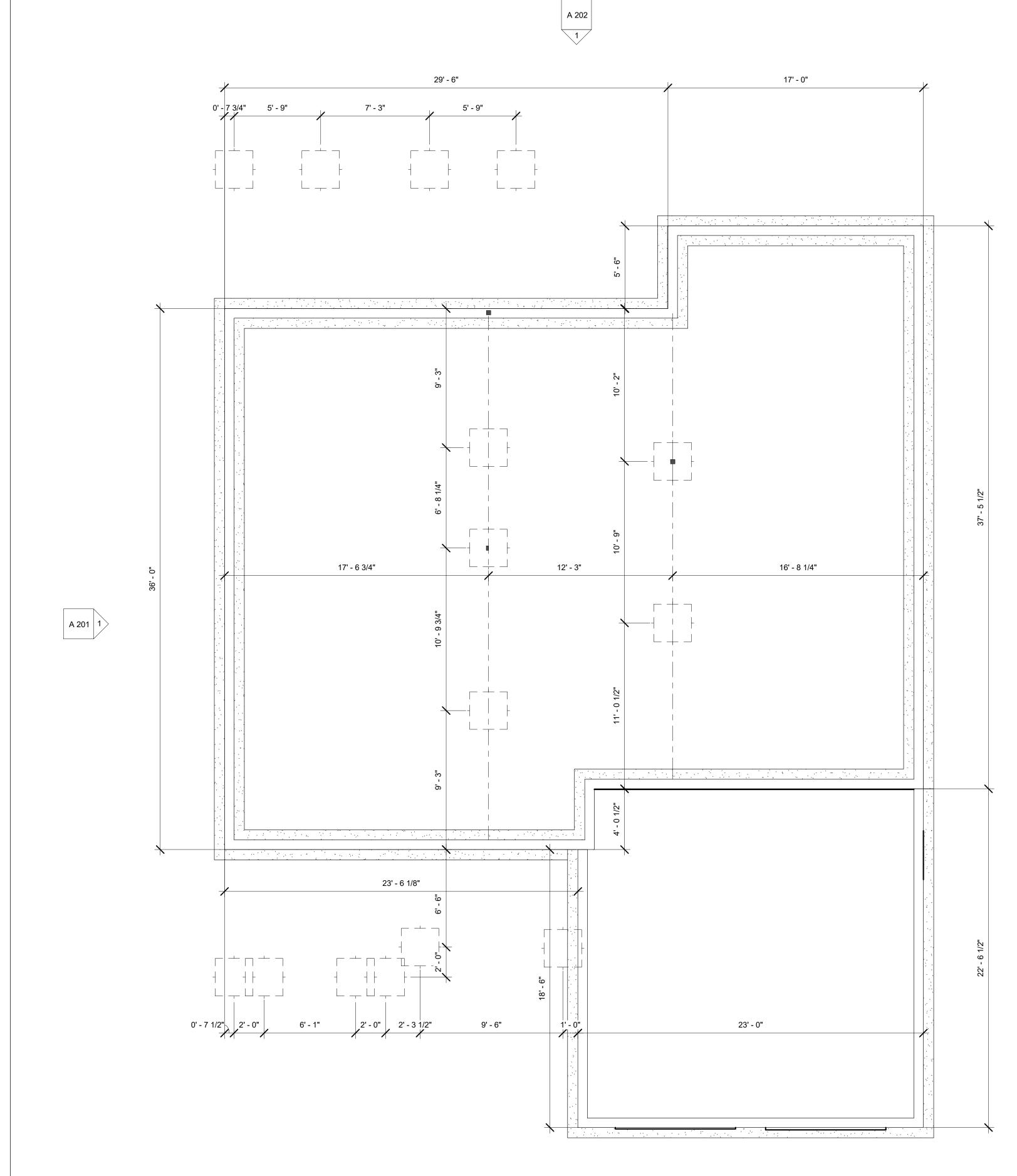
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	PLAN #91818 - AMHERST	SECOND FLOOR ELECTRICAL PLAN
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2 CRAWL SPACE 1/4" = 1'-0"

2 A 202

8" CMU CONT. APPROX. GRADE 24" X 10" MIN. CONT. CONCRETE FOOTING OR AS SOIL REQUIRES W/ (3) #5 REBAR

1 FOUNDATION DETAILS 1 1/2" = 1'-0"

RIM JOIST AND FLOOR JOIST **R-19 BATT INSULATION**

ANCHOR BOLT AND 3" X 3" X 1/4" PLATE WASHER MIN. 15"

EMBEDMENT 44" O.C. SPACING AND MIN.

12" FROM END OF PLATES AND ALL OUTSIDE CORNERS

AIR INFILTRATION BARRIER R-19 BATT INSULATION

1/2" O.S.B. SHEATHING

BOARD & BATTEN SIDING



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MEBANE, NC 27302



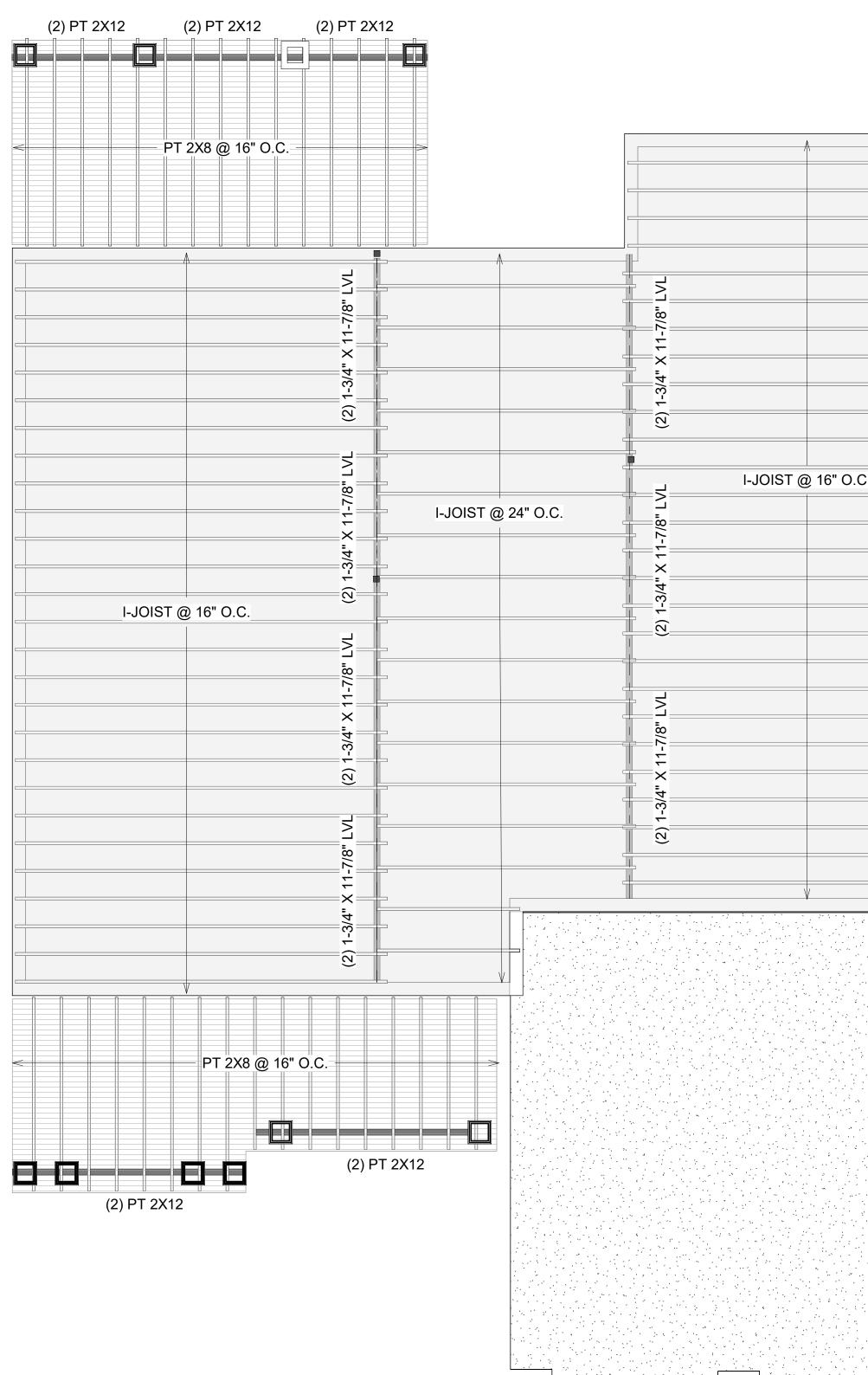
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PHONE: 919-563-1818 LOCAL PROFESSIONAL'S SEAL LAURADOWDS@LIVE.COM WWW.DOWDSDESIGNCOLLECTION.COM FOR SHRINK / SWELL CONDITIONS CONTACT LOCAL STRUCTURAL ENGINEER FOR FOUNDATION DESIGN – 1/2" G.W.B. (TYP.) - 2 X 6 STUDS @ 16" O.C. - 2 X 6 BOTTOM PLATE - 3/4" T & G PLYWOOD SUBFLOORING GLUED & SCREWED AMHERS FOUNDATION PLAN \mathcal{T} ALUMINUM OR S.S. STEEL TERMITE SHIELD \odot $\overline{}$ ∞ $\overline{}$ _____ 2" MIN. SAND W/ \mathbf{n} # VAPOR BARRIER A V ב 0' - 3" MIN. EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THESE DRAWINGS TO AVOID MISTAKES. THE DESIGNER, OR ANYONE ASSOCIATED WITH THE DESIGNER, WILL NOT BE HELD LIABLE FOR ANY ERRORS OR OMISSIONS IN THESE DRAWINGS ALL DRAWINGS SHOULD BE REVIEWED BY LOCAL PROFESSIONAL TO ASSURE CONFORMANCE WITH LOCAL & STATE CODES. ADDITIONAL ENGINEERING WORK IS THE RESPONSIBILITY OF THE CLIENT. REVISIONS DATE/DESCRIPTION NO DATE PLAN NUMBER SHEET NUMBER 0' 2' 4' " 16 1/4" = 1'-0" S 101

Graphic Scale





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@) 16" O.C.	
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# L/480 Live Load Deflection

Danah	TUO	40 PS	SF Live Load	/ 10 PSF Dead	Load	40 PS	SF Live Load /	20 PSF Dead	Load	
Depth	TJI®	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	
	110	16'-11"	15'-6"       14         16'-3"       13         16'-8"       13         18'-5"       13         19'-3"       14         19'-10"       14         20'-11"       19         23'-8"       22         20'-11"       19         21'-10"       20         22'-6"       2         23'-8"       22         24'-10"       23         24'-10"       23	14'-7"	13'-7"	16'-11"	15'-6"	14'-3"	12'-9"	
91⁄2"	210	17'-9"	16'-3"	15'-4"	14'-3"	17'-9"	16'-3"	15'-4"	14'-0"	
	230	18'-3"	16'-8"	15'-9"	14'-8"	18'-3"	16'-8"	15'-9"	14'-8"	
	110	20'-2"	18'-5"	17'-4"	15'-9"(1)	20'-2"	17'-8"	16'-1"(1)	14'-4"(1)	
111/8"	210	10 21'-1" 19'-3" 18'-2" 1		16'-11"	21'-1 <b>"</b>	19'-3"	17'-8"	15'-9" ⁽¹⁾		
	230	21'-8"	19'-10" 18'-8		17'-5"	21'-8"	19'-10"	18'-7"	16'-7"(1)	
	360	22'-11"	20'-11"	19'-8"	18'-4"	22'-11"	20'-11"	19'-8"	17'-10 ^{u(1)}	
	560	26'-1"	23'-8"	22'-4"	20'-9"	26'-1"	23'-8"	22'-4"	20'-9"(1)	
14	110	22'-10"	20'-11"	19'-2"	17 ¹ -2 ⁿ (1)	22'-2"	19'-2"	17'-6"(1)	15'-0"(1)	
	210	23'-11"	21'-10"	20'-8"	18'-10"(1)	23'-11"	21'-1"	19 ¹ -2 ¹¹ (1)	16'-7"(1)	
14"	230	24'-8"	22'-6"	21'-2"	19'-9" ⁽¹⁾	24'-8"	22'-2"	20'-3"(1)	17'-6"(1)	
	360	26'-0"	23'-8"	22'-4"	20'-9"(1)	26'-0"	23'-8"	22'-4"(1)	17'-10"(1)	
	560	29'-6"	26'-10"	25'-4"	23'-6"	29'-6"	26'-10"	25'-4" ⁽¹⁾	20'-11"(1)	
	210	26'-6"	24'-3"	22'-6" ⁽¹⁾	19'-11"(1)	26'-0"	22'-6"(1)	20'-7"(1)	16'-7"(1)	
101	230	27'-3"	24'-10"	23'-6"	21 ¹ -1 ⁿ⁽¹⁾	27'-3"	23'-9 <b>"</b>	21'-8"(1)	17'-6"(])	
16"	360	28'-9 <b>"</b>	26'-3"	24'-8"(1)	21'-5" ⁽¹⁾	28'-9"	26'-3"(1)	22'-4" ⁽¹⁾	17'-10 ^{u(1)}	
	560	32'-8"	29'-8"	28'-0"	25'-2" ⁽¹⁾	32'-8"	29'-8"	26'-3"(1)	20 ¹ -11 ¹¹ (1)	

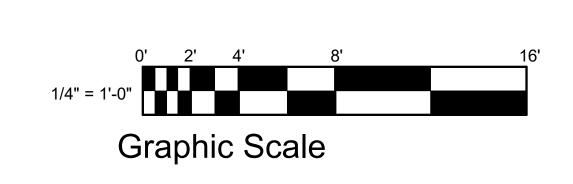
# L/360 Live Load Deflection (Minimum Criteria per Code)

Donth	TU®	40 PS	F Live Load	10 PSF Dead	Load	40 PSF Live Load / 20 PSF Dead Load						
Depth	1110	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.			
	110         18'-9"         17'-2"           210         19'-8"         18'-0"           230         20'-3"         18'-6"           110         22'-3"         19'-4"           210         23'-4"         21'-2"           230         24'-0"         21'-11"           360         25'-4"         23'-2"           560         28'-10"         26'-3"           110         24'-4"         21'-0"           230         26'-6"         23'-1"			15'-8"	14'-0"	18'-1"	15'-8"	14'-3"	12'-9 <b>"</b>			
91⁄2"	210	19'-8"	18'-0"	17'-0"	15'-4 <b>"</b>	19'-8"	17'-2"	15'-8"	14'-0"			
	230	20'-3"	18'-6"	17'-5"	16'-2"	20'-3"	18'-1"	16'-6"	14'-9"			
	110	22'-3 <b>"</b>	19'-4"	17'-8"	15'-9''(1)	20'-5"	17'-8"	16'-1"(1)	14'-4"(1)			
	210	23'-4 <b>"</b>	21'-2"	19'-4"	17'-3"(1)	22'-4"	19'-4"	17'-8 <b>"</b>	15'-9" ⁽¹⁾			
111/8"	230	24'-0"	21'-11"	20'-5"	18'-3"	23'-7"	20'-5"	18'-7"	16'-7"(1)			
0.000,000,000,000,000	360	25'-4"	23'-2"	21'-10"	20'-4" ⁽¹⁾	25'-4"	23'-2"	21'-10"(1)	17'-10 ^{u(l)}			
	560	28'-10"	26'-3"	24'-9"	23'-0"	28'-10"	26'-3"	24'-9"	20'-11"(1)			
	110	24'-4"	21'-0"	19'-2"	17'-2"(1)	22'-2"	19'-2"	17'-6"(1)	15'-0''(1)			
	210	26'-6"	23'-1"	21'-1"	18'-10"(])	24'-4"	21'-1"	19'-2"(1)	16'-7"(1)			
14"	230	27'-3"	24'-4"	22'-2"	19'-10" ⁽¹⁾	25'-8"	22'-2"	20'-3"(1)	17'-6"(1)			
	360	28'-9 <b>"</b>	26'-3"	24'-9"(1)	21'-5"(1)	28'-9"	26'-3" ⁽¹⁾	22'-4" ⁽¹⁾	17'-10"(1)			
	560	32'-8"	29'-9"	28'-0"	25'-2" ⁽¹⁾	32'-8"	29'-9"	26'-3"(1)	20'-11"(1)			
	210	28'-6 <b>"</b>	24'-8"	22'-6"(1)	$19^{i}-11^{n(1)}$	26'-0 <b>"</b>	22'-6"(1)	20'-7" ⁽¹⁾	16'-7"(1)			
10	230	30'-1"	26'-0"	23'-9"	21'-1"(1)	27'-5"	23'-9"	21'-8" ⁽¹⁾	17'-6" ⁽¹⁾			
10	360	31'-10"	29'-0"	26'-10"(1)	21'-5"(1)	31'-10"	26'-10" ⁽¹⁾	22'-4" ⁽¹⁾	17'-10"(1)			
360 560 110 210 210 360 560 210 210 230		36'-1"	32'-11"	31'-0"(1)	25'-2"(1)	36'-1"	31'-6"(1)	26'-3" ⁽¹⁾	20'-11"(1)			

(1) Web stiffeners are required at intermediate supports of continuous-span joists when the intermediate bearing length is *less* than 5¼" and the span on either side of the intermediate bearing is greater than the following spans:

Ţ]]®	40 PS	SF Live Load	/ 10 PSF Dead	Load	40 PSF Live Load / 20 PSF Dead Load						
	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.			
110	N.A. N.A. N.A. 15'-4		15'-4"	N.A.	A. N.A. 16'-0"						
210	N.A.	N.A. 21'-4"		17'-0"	N.A.	21'-4"	17'-9"	14'-2"			
230	N.A.	N.A.	N.A.	19'-2"	N.A.	N.A.	19'-11"	15'-11"			
360	N.A.			19'-6"	N.A.	24'-5"	20'-4"	16'-3"			
560	N.A.	N.A.	29'-10"	23'-10"	N.A.	29'-10"	24'-10"	19'-10"			

Long-term deflection under dead load, which includes the effect of creep, has not been considered. Bold italic spans reflect initial dead load deflection exceeding 0.33".





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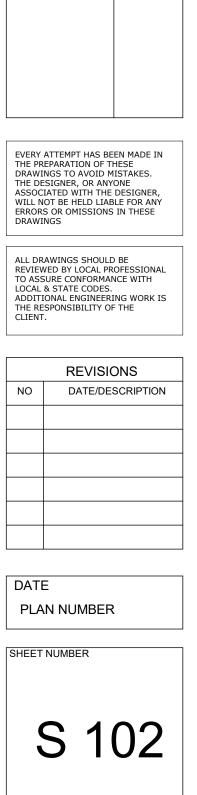
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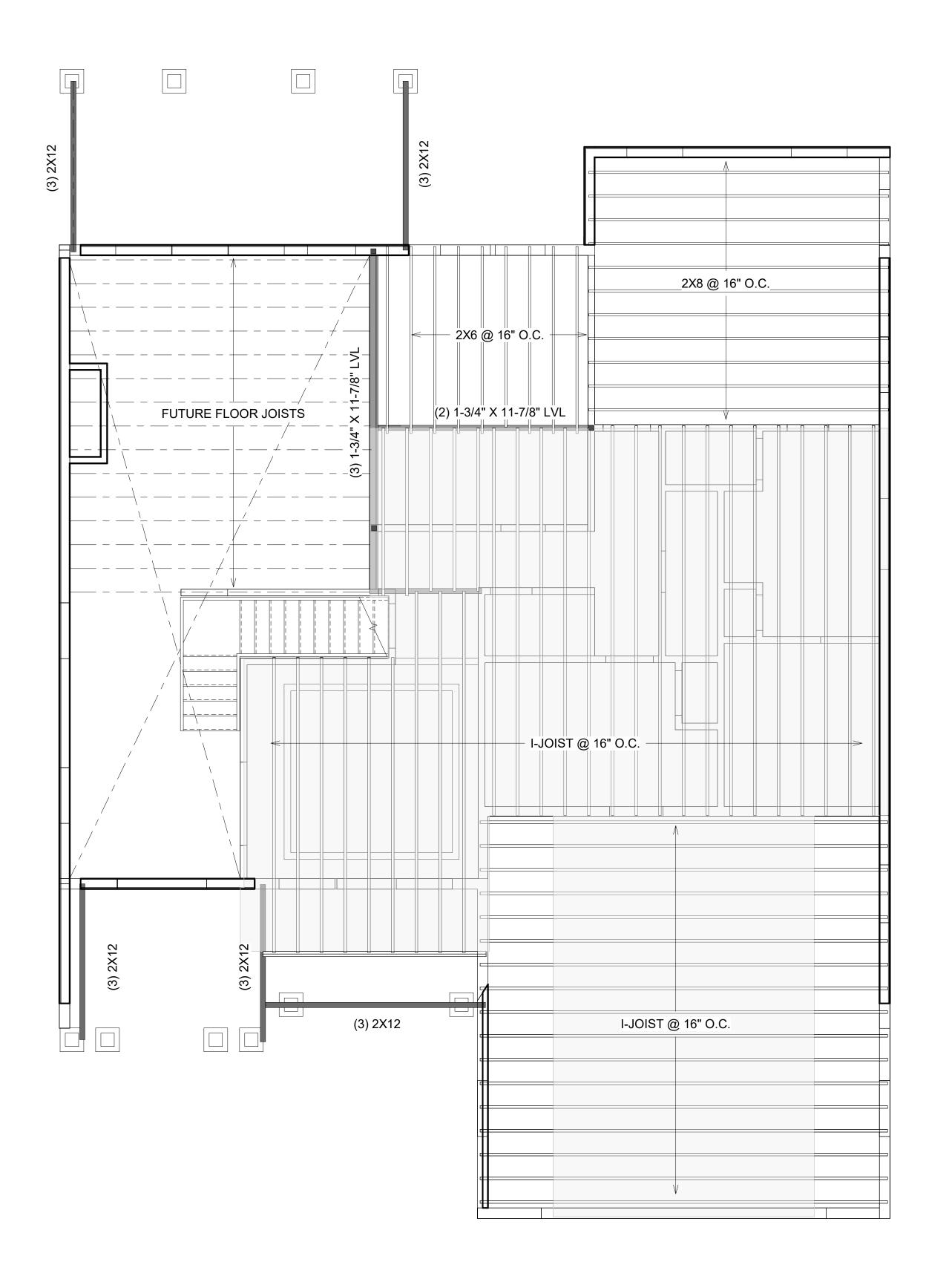
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FIRST FLOOR FRAMING PLAN





1 SECOND FLOOR FRAMING 1/4" = 1'-0"



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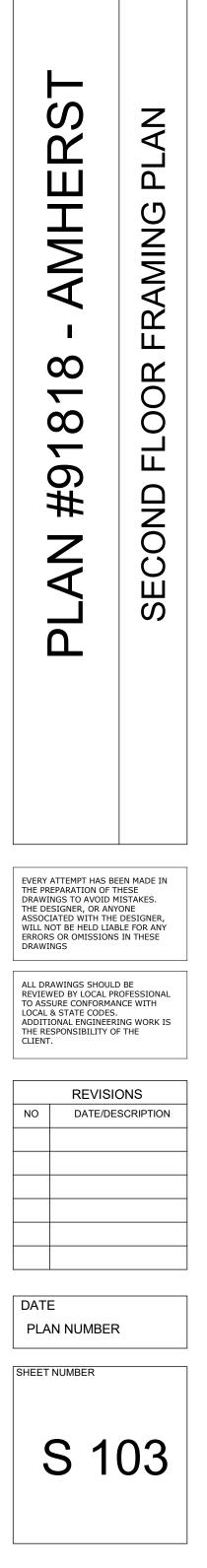
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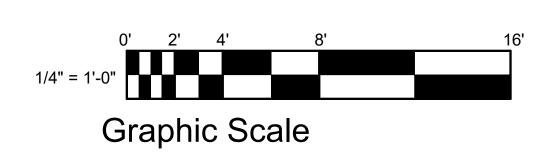
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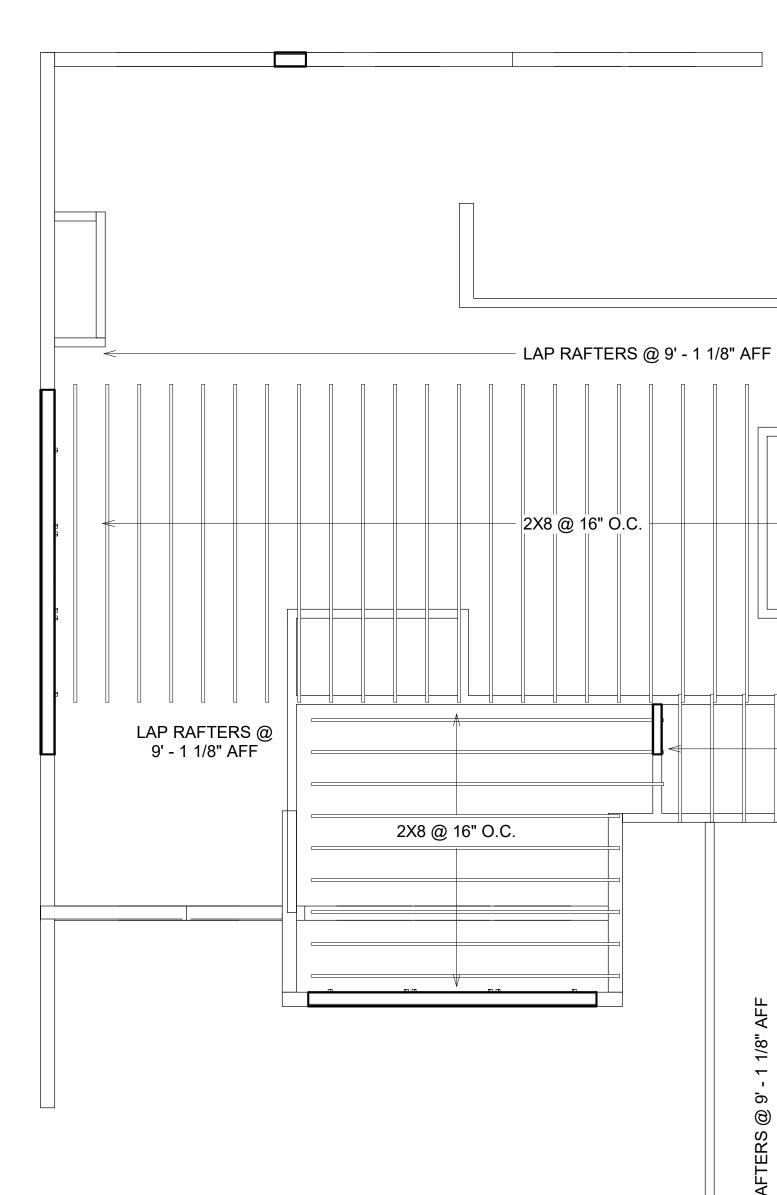
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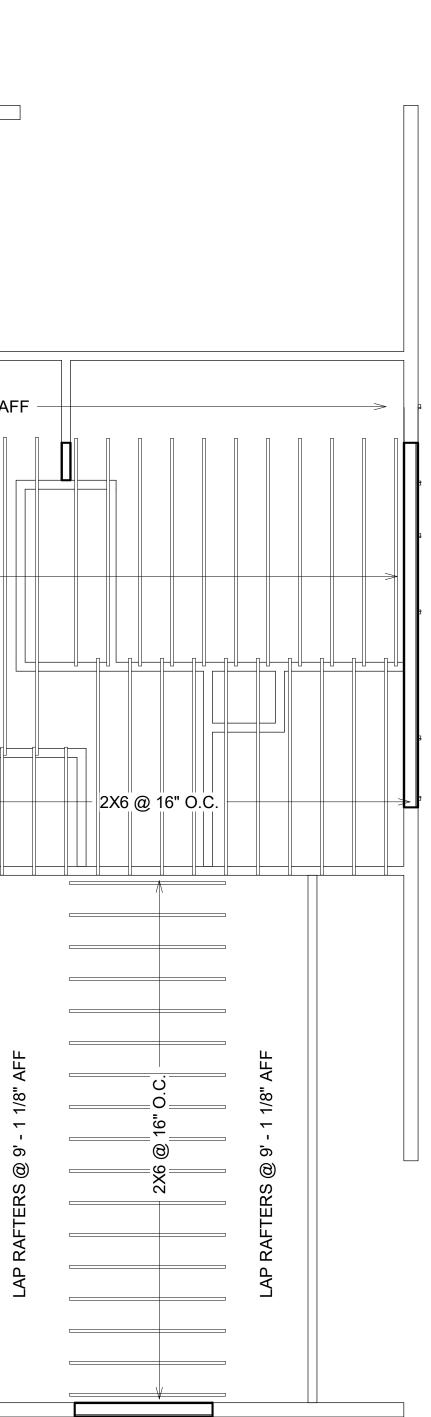






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# CEILING JOISTS

		Span (feet and inches)									-1							
			2	2 x 4			2)	6			2 8	8			2 x	10		
Species		8							spacing of	on center				·				
or Group	Grade	12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"	
Douglas Fir-	Sel. Struc.	9-1	8-3	7-9	7-3	14-4	13-0	12-3	11-4	18-10	17-2	16-1	15-0	24-1	21-10	20-7	19-1	
Larch	No.1 & Btr.	8-11	8-1	7-8	7-1	14-1	12-9	12-0	11-2	18-6	16-10	15-10	14-8	23-8	21-6	20-2	18-9	
	No.1	8-9	8-0	7-6	7-0	13-9	12-6	11-9	10-11	18-2	16-6	15-6	14-2	23-2	21-1	19-5	17-4	
	No.2	8-7	7-10	7-4	6-10	13-6	12-3	11-7	10-8	17-10	16-2	15-1	13-6	22-9	20-2	18-5	16-5	
	No.3	7-10	6-10	6-2	5-7	11-6	9-11	9-1	8-1	14-7	12-7	11-6	10-3	17-9	15-5	14-1	12-7	
Douglas Fir-	Sel. Struc.	8-3	7-6	7-0	6-6	12-11	11-9	11-1	10-3	17-0	15-6	14-7	13-6	21-9	19-9	18-7	17-3	
South	No.1	8-0	7-3	6-10	6-4	12-7	11-5	10-9	10-0	16-7	15-1	14-2	13-2	21-2	19-3	18-1	16-8	
	No.2	7-10	7-1	6-8	6-2	12-3	11-2	10-6	9-9	16-2	14-8	13-10	12-10	20-8	18-9	17-8	16-0	
	No.3	7-7	6-8	6-1	5-5	11-2	9-8	8-10	7-11	14-2	12-4	11-3	10-0	17-4	15-0	13-8	12-3	
Hem-Fir	Sel. Struc.	8-7	7-10	7-4	6-10	13-6	12-3	11-7	10-9	17-10	16-2	15-3	14-2	22-9	20-8	19-5	18-0	
	No.1 & Btr.	8-5	7-8	7-2	6-8	13-3	12-0	11-4	10-6	17-5	15-10	14-11	13-10	22-3	20-2	19-0	17-8	
	No.1	8-5	7-8	7-2	6-8	13-3	12-0	11-4	10-6	17-5	15-10	14-11	13-10	22-3	20-2	19-0	17-1	
	No.2	8-0	7-3	6-10	6-4	12-7	11-5	10-9	10-0	16-7	15-1	14-2	13-1	21-2	19-3	17-10	16-0	
	No.3	7-8	6-8	6-1	5-5	11-2	9-8	8-10	7-11	14-2	12-4	11-3	10-0	17-4	15-0	13-8	12-3	
Ѕргисе-	Sel. Struc.	8-0	7-3	6-10	6-4	12-7	11-5	10-9	10-0	16-7	15-1	14-2	13-2	21-2	19-3	18-1	16-10	
Pine-Fir	No.1	7-10	7-1	6-8	6-2	12-3	11-2	10-6	9-9	16-2	14-8	13-10	12-10	20-8	18-9	17-8	16-3	
(South)	No.2	7-7	6-11	6-6	6-0	11-11	10-10	10-2	9-6	15-9	14-3	13-5	12-6	20-1	18-3	17-1	15-3	
	No.3	7-3	6-4	5-9	5-2	10-8	9-3	8-5	7-6	13-6	11-8	10-8	9-6	16-5	14-3	13-0	11-8	
Western	Sel. Struc.	7-10	7-1	6-8	6-2	12-3	11-2	10-6	9-9	16-2	14-8	13-10	12-10	20-8	18-9	17-8	16-5	
Woods	No.1	7-7	6-11	6-6	6-0	11-11	10-10	10-2	9-3	15-9	14-3	13-0	11-8	20-1	17-5	15-11	14-3	
	No.2	7-4	6-8	6-3	5-10	11-7	10-6	9-10	9-2	15-3	13-10	13-0	11-8	19-5	17-5	15-11	14-3	
	No.3	6-8	5-9	5-3	4-8	9-8	8-5	7-8	6-10	12-4	10-8	9-9	8-8	15-0	13-0	11-10	10-7	

# **CEILING JOISTS**

Species or Group	Grade					
Douglas Fir- Larch	Sel. Struc. No.1 & Btr. No.1 No.2 No.3					
Douglas Fir- South	Sel. Struc. No.1 No.2 No.3					
Hem-Fir	Sel. Struc. No.1 & Btr. No.1 No.2 No.3					
Spruce- Pine-Fir (South)	Sel. Struc. No.1 No.2 No.3					
Western Woods	Sel. Struc. No.1 No.2 No.3					

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### 20# LIVE LOAD 10# DEAD LOAD L/360 Table CJ-1

**Design Criteria**: *Strength* - 20 lbs. per sq. ft. live load, plus 10 lbs. per sq. ft. dead load. *Deflection* - Limited in span in inches divided by 360 for live load only.

# 10# LIVE LOAD 10# DEAD LOAD L/360 Table CJ-3

Design Criteria: Strength - 10 lbs. per sq. ft. live load, plus 10 lbs. per sq. ft. dead load. Deflection - Limited in span in inches divided by 360 for live load only.

	Span (feet and inches)														
2 x 4				2)	K 6			21	( 8		2 x 10				
				4 2		14	spacing (	on center				2 ¹¹			
12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	<b>19.2</b> "	24"	12"	16"	19.2"	24"
11-6	10-5	9-10	9-1	18-0	16-4	15-5	14-4	23-9	21-7	20-4	18-10	30-4	27-6	25-11	24-1
11-3	10-3	9-8	8-11	17-8	16-1	15-2	14-1	23-4	21-2	19-11	18-6	29-9	27-1	25-5	23-3
11-1	10-0	9-5	8-9	17-4	15-9	14-10	13-9	22-11	20-10	19-5	17-5	29-2	26-0	23-9	21-3
10-10	9-10	9-3	8-7	17-0	15-6	14-7	13-0	22-5	20-2	18-5	16-6	28-6	24-8	22-6	20-2
9-7	8-4	7-7	6-10	14-1	12-2	11-1	9-11	17-10	15-5	14-1	12-7	21-9	18-10	17-2	15-5
10-4	9-5	8-10	8-3	16-3	14-9	13-11	12-11	21-5	19-6	18-4	17-0	27-5	24-10	23-5	<i>21-9</i>
10-1	9-2	8-8	8-0	15-11	14-5	13-7	12-7	20-11	19-0	17-11	16-7	26-9	24-3	22-10	20-5
9-10	8-11	8-5	7-10	15-6	14-1	13-3	12-3	20-5	18-6	17-5	16-0	26-0	23-8	21-11	19-7
9-5	8-2	7-5	6-8	13-9	11-11	10-10	9-8	17-5	15-1	13-9	12-4	21-3	18-5	16-9	15-0
10-10	9-10	9-3	8-7	17-0	15-6	14-7	13-6	22-5	20-5	19-2	17-10	28-7	26-0	24-6	22-9
10-7	9-8	9-1	8-5	16-8	15-2	14-3	13-3	21-11	19-11	18-9	17-5	28-0	25-5	23-11	22-3
10-7	9-8	9-1	8-5	16-8	15-2	14-3	13-3	21-11	19-11	18-9	17-2	28-0	25-5	23-5	21-0
10-1	9-2	8-8	8-0	15-11	14-5	13-7	12-7	20-11	19-0	17-11	16-0	26-9	24-0	21-11	19-7
9-5	8-2	7-5	6-8	13-9	11-11	10-10	9-8	17-5	15-1	13-9	12-4	21-3	18-5	16-9	15-0
10-1	9-2	8-8	8-0	15-11	14-5	13-7	12-7	20-11	19-0	17-11	16-7	26-9	24-3	22-10	<i>21-2</i>
9-10	8-11	8-5	7-10	15-6	14-1	13-3	12-3	20-5	18-6	17-5	16-2	26-0	23-8	22-3	19-10
9-7	8-8	8-2	7-7	15-0	13-8	12-10	11-11	19-10	18-0	16-11	15-4	25-3	22-11	20-11	18-8
8-11	7-9	7-0	6-4	13-0	11-3	10-4	9-3	16-6	14-3	13-0	11-8	20-2	17-5	15-11	14-3
9-10	8-11	8-5	7-10	15-6	14-1	13-3	<i>12-3</i>	20-5	<i>18-6</i>	<i>17-5</i>	<i>16-2</i>	26-0	23-8	22-3	20-2
9-7	8-8	8-2	7-7	15-0	13-8	12-7	11-3	19-10	17-6	16-0	14-3	24-8	21-4	19-6	17-5
9-3	8-5	7-11	7-4	14-7	13-3	12-5	11-3	19-2	<i>17-5</i>	16-0	14-3	24-6	21-4	19-6	17-5
8-2	7-0	6-5	5-9	11-11	10-4	9-5	8-5	15-1	13-0	11-11	10-8	18-5	15-11	14-6	13-0

0' 2' 4' 1/4" = 1'-0" 16 Graphic Scale



EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THESE DRAWINGS TO AVOID MISTAKES. THE DESIGNER, OR ANYONE ASSOCIATED WITH THE DESIGNER, WILL NOT BE HELD LIABLE FOR ANY ERRORS OR OMISSIONS IN THESE DRAWINGS

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CEIL

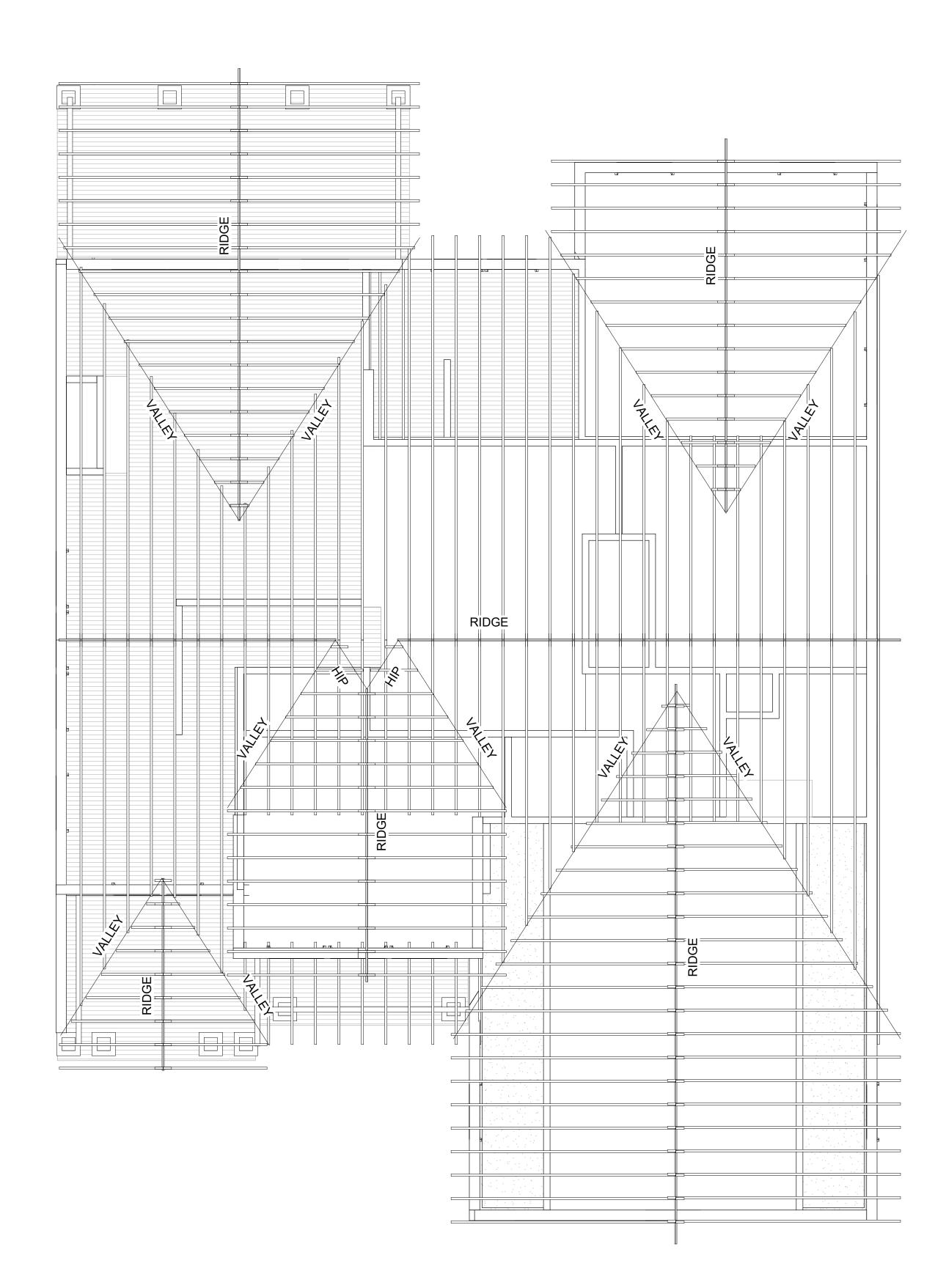
ALL DRAWINGS SHOULD BE REVIEWED BY LOCAL PROFESSIONAL TO ASSURE CONFORMANCE WITH LOCAL & STATE CODES. ADDITIONAL ENGINEERING WORK IS THE RESPONSIBILITY OF THE CLIENT.

REVISIONS DATE/DESCRIPTION NO

DATE PLAN NUMBER

SHEET NUMBER

S 104



1 <u>ROOF FRAMING PLAN</u> 1/4" = 1'-0"

AIA

# **ROOF RAFTERS**

		Span (feet and inches)															
		2 x 6			2 x 8			2 x 10				2 x 12					
Species		spacing on center															
or Group	Grade	12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"
Douglas Fir-	Sel, Struc.	14-4	13-0	12-3	11-4	18-10	17-2	16-1	15-0	24-1	21-10	20-7	19-1	29-3	26-7	25-0	23-3
Larch	No.1 & Btr.	14-1	12-9	12-0	11-2	18-6	16-10	15-10	14-8	23-8	21-6	20-2	18-9	28-9	26-1	24-5	21-10
	No.1	13-9	12-6	11-9	10-11	18-2	16-6	15-6	14-1	23-2	21-1	19-3	17-3	28-2	24-5	22-4	20-0
	No.2	13-6	12-3	11-7	10-7	17-10	16-2	14-11	13-4	22-9	20-0	18-3	16-4	26-9	23-2	21-2	18-11
	No.3	11-5	9-10	9-0	8-1	14-5	12-6	11-5	10-3	17-8	15-3	13-11	12-6	20-5	17-9	16-2	14-6
Douglas Fir-	Sel. Struc.	12-11	11-9	11-1	10-3	17-0	15-6	14-7	13-6	21-9	19-9	18-7	17-3	26-5	24-0	22-7	21-0
South	No.1	12-7	11-5	10-9	10-0	16-7	15-1	14-2	13-2	21-2	19-3	18-1	16-7	25-9	23-5	21-6	19-2
	No.2	12-3	11-2	10-6	9-9	16-2	14-8	13-10	12-10	20-8	18-9	17-8	15-10	25-1	22-6	20-7	18-5
	No.3	11-2	9-8	8-10	7-10	14-1	12-2	11-2	10-0	17-3	14-11	13-7	12-2	20-0	17-3	15-9	14-1
Hem-Fir	Sel. Struc.	13-6	12-3	11-7	10-9	17-10	16-2	15-3	14-2	22-9	20-8	19-5	18-0	27-8	25-1	23-7	21-11
	No.1 & Btr.	13-3	12-0	11-4	10-6	17-5	15-10	14-11	13-10	22-3	20-2	19-0	17-8	27-1	24-7	23-1	20-11
	No.1	13-3	12-0	11-4	10-6	17-5	15-10	14-11	13-10	22-3	20-2	19-0	17-0	27-1	24-2	22-0	19-9
	No.2	12-7	11-5	10-9	10-0	16-7	15-1	14-2	13-0	21-2	19-3	17-9	15-10	25-9	22-6	20-7	18-5
	No.3	11-2	9-8	8-10	7-10	14-1	12-2	11-2	10-0	17-3	14-11	13-7	12-2	20-0	17-3	15-9	14-1
Spruce-	Sel. Struc.	12-7	11-5	10-9	10-0	16-7	15-1	14-2	13-2	21-2	19-3	18-1	16-10	25-9	23-5	22-1	20-6
Pine-Fir	No.1	12-3	11-2	10-6	9-9	16-2	14-8	13-10	12-10	20-8	18-9	17-8	16-1	25-1	22-10	20-11	18-8
(South)	No.2	11-11	10-10	10-2	9-6	15-9	14-3	13-5	12-5	20-1	18-3	16-11	15-2	24-5	21-6	19-8	17-7
	No.3	10-7	9-2	8-4	7-6	13-4	11-7	10-7	9-5	16-4	14-2	12-11	11-7	18-11	16-5	15-0	13-5
Western	Sel. Struc.	12-3	11-2	10-6	9-9	16-2	14-8	13-10	12-10	20-8	18-9	17-8	16-4	25-1	22-10	21-2	18-11
Woods	No.1	11-11	10-10	10-2	9-2	15-9	14-2	12-11	11-7	20-0	17-4	15-10	14-2	23-2	20-1	18-4	16-5
	No.2	11-7	10-6	9-10	9-2	15-3	13-10	12-11	11-7	19-5	17-4	15-10	14-2	23-2	20-1	18-4	16-5
	No.3	9-8	8-4	7-7	6-10	12-2	10-7	9-8	8-8	14-11	12-11	11-9	10-7	17-3	15-0	13-8	12-3



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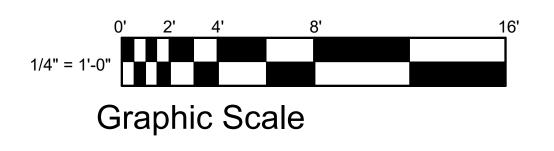
Table RR-41

dowds DESIGN COLLECTION, LLC

17

20# SNOW LOAD 15# DEAD LOAD L/360

**Design Criteria**: Strength - 20 lbs. per sq. ft. snow load, plus 15 lbs. per sq. ft. dead load. Deflection - Limited in span in inches divided by 360 for live load only.





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ROOF FRAMING PLAN

EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THESE DRAWINGS TO AVOID MISTAKES. THE DESIGNER, OR ANYONE ASSOCIATED WITH THE DESIGNER, WILL NOT BE HELD LIABLE FOR ANY ERRORS OR OMISSIONS IN THESE DRAWINGS ALL DRAWINGS SHOULD BE REVIEWED BY LOCAL PROFESSIONAL TO ASSURE CONFORMANCE WITH LOCAL & STATE CODES. ADDITIONAL ENGINEERING WORK IS THE RESPONSIBILITY OF THE CLIENT. REVISIONS

S 105

DATE/DESCRIPTION

DATE PLAN NUMBER

NO

SHEET NUMBER