ASH

ELEVATION B



CRAWL VENTING

1496 SQ FT OF FOUNDATION TO BE VENTED 150 SQ FT / 1 SQ FT = 9.97 SQ FT VENTILATION

VENTS 40 SQ IN = (0.278 SQ FT)

CRAWL VENT

 $\frac{9.97}{0.278} \begin{array}{l} \text{SQ FT} \\ \text{SQ FT} \end{array} = 35.87 \quad \text{VENTS REQUIRED}$

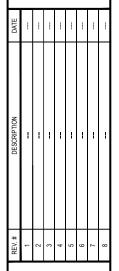
ACTUAL CRAWL VENTS PROVIDED 36

WHERE AN APPROVED VAPOR BARRIER IS INSTALLED OVER GROUND SURFACE THE REQUIRED VENTILATION MAY BE REDUCED BY 50%.

WELLERS KNOLL LOT 25







- RH

-ASH

2387

DRAWN BY:

South Designs

ISSUE DATE:

09/29/2018 CURRENT REVISION DATE 10/13/2020

1/8" = 1'-0"

0.0b

Cover Sheet 'B'

INCLUDED OPTIONS: 1st FLOOR **GOURMET KITCHEN OAK STAIRS OPEN RAIL OWNERS SPA SHOWER LAUNDRY SINK** 2nd FLOOR 2ND SINK @ BATH 2 **UNFINISHED STORAGE**

	ELEVAT	TON 'B'
	UNHEATED	HEATED
FIRST FLOOR	0	1496
SECOND FLOOR	0	891
MECHANICAL	102	0
REAR COVERED PORCH	89	0
FRONT PORCH	125	0
2-CAR GARAGE	449	0
SUBTOTALS	765	2387
TOTAL UNDER ROOF	31	52

UNFINISHED STORAGE 2F

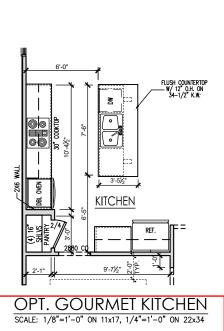
OPTIONS UNHEATED S.F. HEATED S.F.

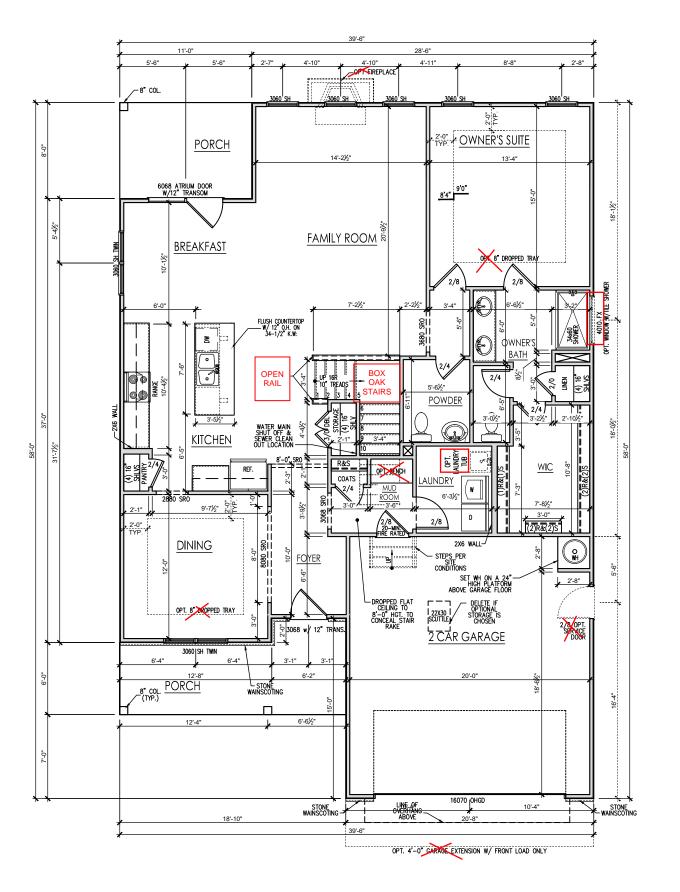
General Floor Plan Notes

General Floor Plan Notes shall apply unless noted otherwise on plan.

- Wall Heights: Typically 9'-1 1/2" at first floor and wain reignis. Typically 3-11/2" at a this a W.N.O. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from Joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
- Wall Thickness is typically 4" at exterior walls, 3 1/2" at interior. 2x6 frame shall be used at walls that back up to plumbing fixtures. Walls greater than 10' high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs
- 3. Typical header height shall be 8'-0" AFF at First Floor, and 7'-0" AFF at Second Floor U.N.O.
- Jacks: Openings up to 3'-4" wide shall have (1) 2x4 jack stud SPF on each side. Openings greater than 3'-4" wide shall have (2) 2x4 jack studs SPF on each
- Soffits, Coffered Ceilings, Trey Ceilings and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens do not include soffits over wall cabinetry.
- 6. Door & Window Frames, where occurring near corners, shall be a minimum of 4 1/2" from corner.

 Except for walk-in closets with doors near a corner ors at closets shall be centered on closet
- Windows: Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. False windows shall be installed with obscure
- Closets for clothing or coat storage shall be equipped with 1 rod/shelf (unless otherwise noted). Closets for linen shall have 5 open equal shelves.
- Stair treads shall be a min of 9" deep, risers shall be a maximum of 8 1/4", unless noted otherwise, per the current North Carolina Residential Code
- 10. Handrails and Guards at stairs shall be 34" above the finished surface of the ramp surface of the stair. Handrails at landings and overlooks of multilevel spaces shall be 36" above finished floor. Guards (pickets or balisters) shall be spaced with no more
- Affic Access shall be provided at all affic area with a height greater than 30". Minimum clear affic access shall be 20" x 30". Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
- 12.Garage Door to Living Space shall be 2'-8" x 6'-8" $\,$ minimum size and shall be 20 minute fire rated and
- 13. Garage Walls, as a minimum, shall be separated from living space by installing 1/2" gypsum board on the garage side of the wall. With habitable space above, the inside of all garage walls require 1/2" GWB supporting 5/8" type X GWB on ceiling.

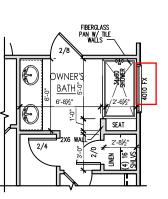




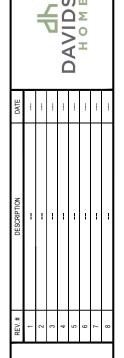
WELLERS KNOLL LOT 25



S



OPT. SPA SHOWER SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



RH Plan 'B' . ASH First Floor 1 2387

> DRAWN BY: South Designs

ISSUE DATE: 09/29/2018

CURRENT REVISION DATE 10/13/2020 1/8" = 1'-0"

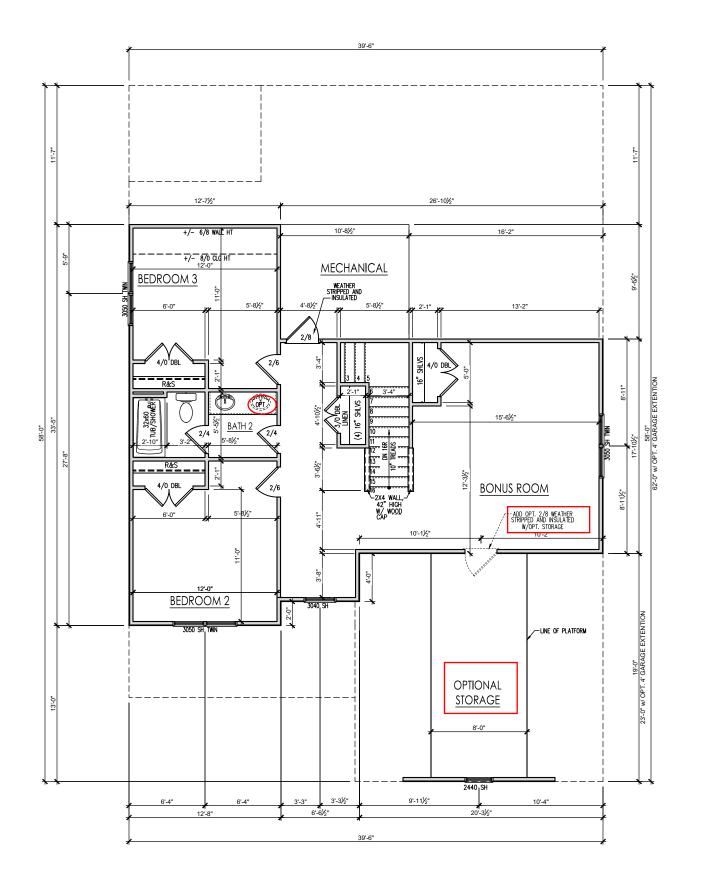
SHEET

FIRST FLOOR PLAN 'B' SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

General Floor Plan Notes

General Floor Plan Notes shall apply unless noted otherwise on plan.

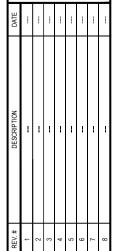
- Wall Heights: Typically 9-1 1/2" at first floor and second floor, and 8-1 1/2" at attics U.N.O. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from Joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
- Wall Thickness is typically 4" at exterior walls, 3 1/2" at interior. 2x6 frame shall be used at walls that back up to plumbing fixtures. Walls greater than 10' high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.
- Typical header height shall be 8'-0" AFF at First Floor, and 7'-0" AFF at Second Floor U.N.O.
- Jacks: Openings up to 3'-4" wide shall have (1) 2x4 jack stud SPF on each side. Openings greater than 3'-4" wide shall have (2) 2x4 jack studs SPF on each
- Soffits, Coffered Ceilings, Trey Ceilings and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens do not include soffits over wall cabinetry.
- Door & Window Frames, where occurring near corners, shall be a minimum of 4 1/2" from corner. Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.
- Windows: Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. Folse windows shall be installed with obscure classing.
- Closets for clothing or coat storage shall be equipped with 1 rod/shelf (unless otherwise noted). Closets for linen shall have 5 open equal shelves. Closets for pantries shall have 5 equal wood shelves pointed.
- Stair treads shall be a min of 9" deep, risers shall be a maximum of 8 1/4", unless noted otherwise, per the current North Carolina Residential Code
- 10. Handrails and Guards at stairs shall be 34" above the finished surface of the ramp surface of the stair. Handrails at landings and overlooks of multilevel spaces shall be 36" above finished floor. Guards (pickets or ballsters) shall be spaced with no more than 4" between guards.
- 11. Attic Access shall be provided at all attic area with a height greater than 30". Minimum clear attic access shall be 20" x 30". Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
- 12. Garage Door to Living Space shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
- 13. Garage Walls, as a minimum, shall be separated from living space by installing 1/2" gypsum board on the garage side of the wall. With habitable space above, the inside of all garage walls require 1/2" GWB supporting 5/8" type X GWB on ceiling.



WELLERS KNOLL LOT 25



DAVIDSON HOMES



- ASH - RH ---

2387

Second Floor Plan

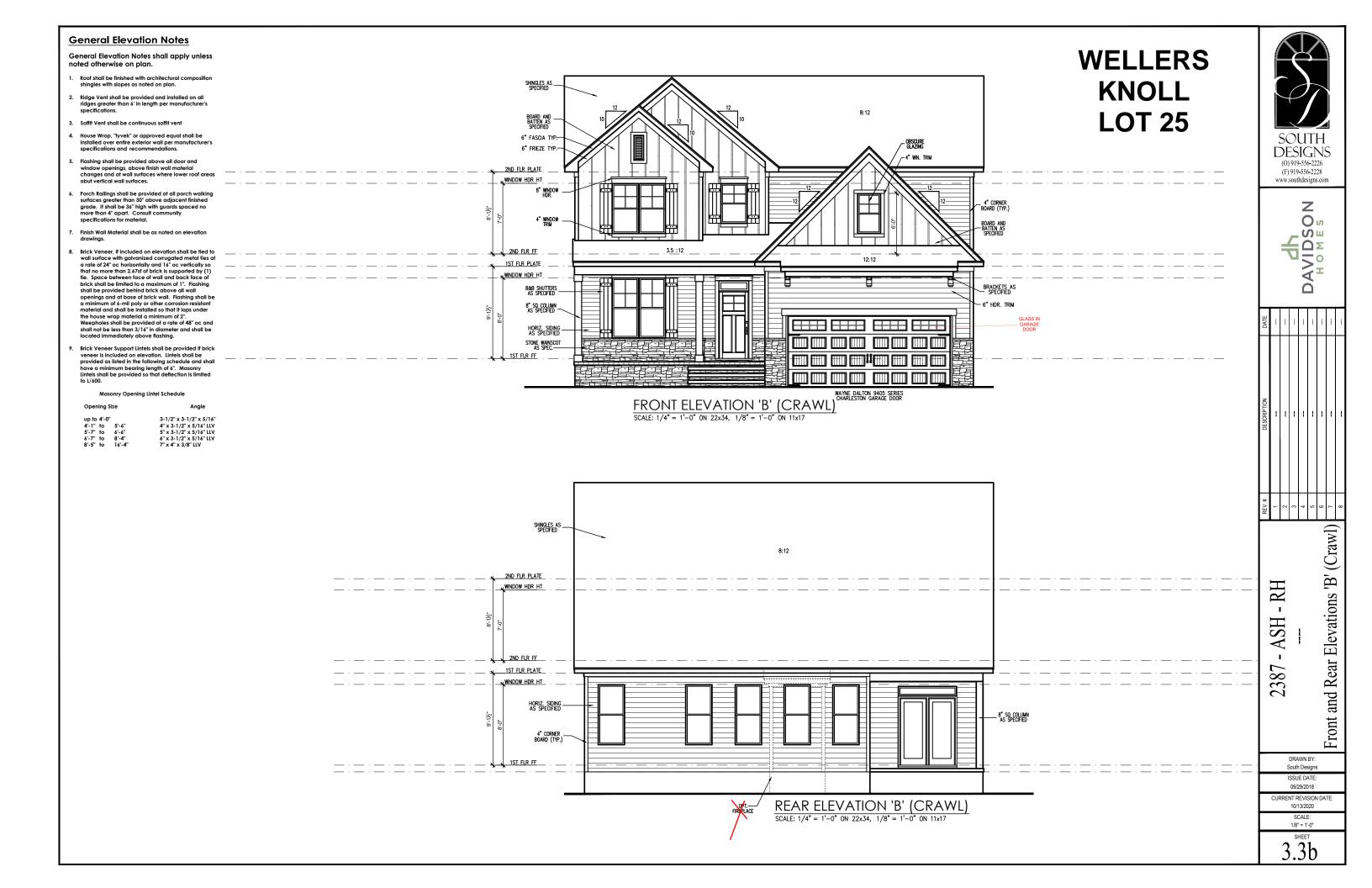
DRAWN BY: South Designs

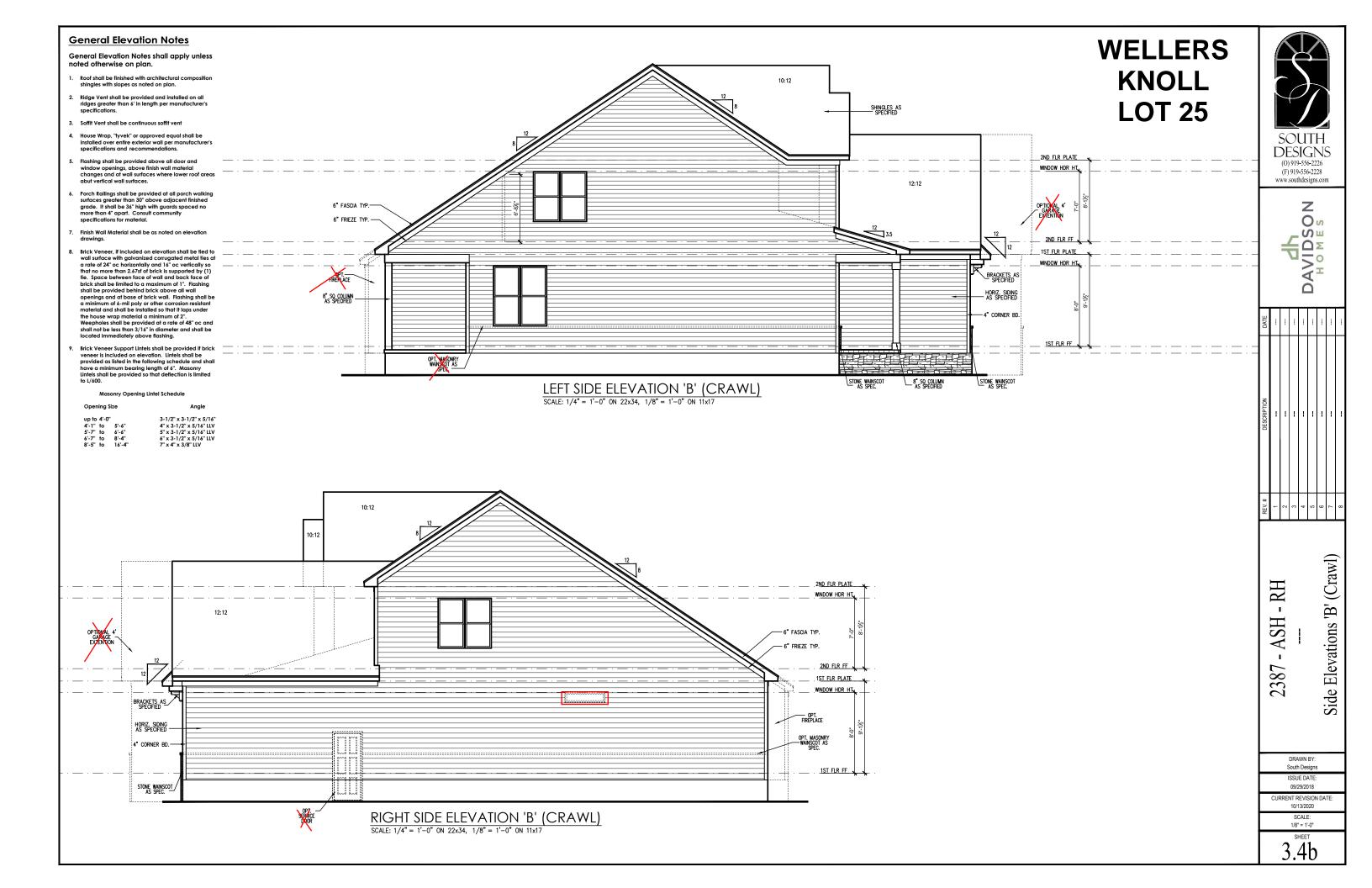
South Designs ISSUE DATE: 09/29/2018

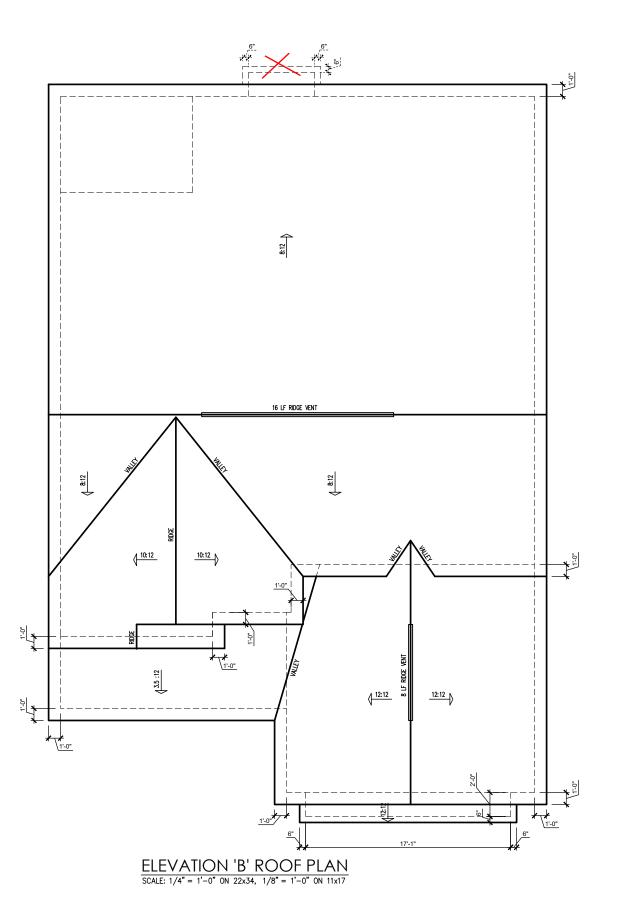
CURRENT REVISION DATE 10/13/2020

1/8" = 1'-0"
SHEET b

SECOND FLOOR PLAN 'B'
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34







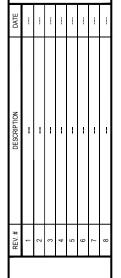
	ATTIC VENT SCHEDULE									
	ELEVATION 'B'									
MAIN	HOUSE		SQ FTG 2034		AT / NEAR RIDGE			AT / NEAR EAVE		
VENT TYPE	SQ. REQL		SQ. FT.	PERCENT OF TOTAL	POT LARGE (SQ. FT. EACH)	POT SMALL (SQ. FT. EACH)	RIDGE VENT (SQ. FT. PER LF)	EAVE VENT (SQ. IN. EACH)	CONT. VENT (SQ. IN. PER LF)	
721111112	RAN		SUPPLIED	SUPPLIED	SUPPLIED	0.4236	0.2778	0.125	0.1944	0.0625
•										
RIDGE VENT	2.71	3.39	3.00	45.28	0	0	24.00			
SOFFIT VENTS	4.07	3.39	3.63	54.72				0	58.00	
TOTAL (MIN)	6.78	6.78	6.63	100.00	POT VENTS MAY B	REQUIRED IF THERE	IS INSUFFICIENT RIE	IGE AVAILABLE		

	* SCHEDULE HAS BEEN	CALCULATED	ASSUMING EAVE	VENTILATION	AT 50-60%	OF TOTAL	and Ridge	AT 40-50% OF	TOTAL REQUIRED	VENTILATION	
Г			O.P.	Τ /' (CΔ	₽ ∆ GE	FYTEN	ITION				•

	OPT 4' GARAGE EXTENTION									
MAIN	HOUSE		SQ FTG	2129	AT / NEAR RIDGE			AT / NE	AR EAVE	
VENT TYPE		SQ. FT. SUPPLIED		PERCENT OF TOTAL SUPPLIED	POT LARGE (SQ. FT. EACH)	POT SMALL (SQ. FT. EACH)	RIDGE VENT (SQ. FT. PER LF)	EAVE VENT (SQ. IN. EACH)	CONT. VENT (SQ. IN. PER LF)	
							SUPPLIED	0.4236	0.2778	0.125
RIDGE VENT	2.84	3.55	3.25	45.61	0	0	26.00			
SOFFIT VENTS	4.26	3.55	3.88	54.39				0	62.00	
TOTAL (MIN)	7.10	7.10	7.13	100.00	POT VENTS MAY B	E REQUIRED IF THERE	E IS INSUFFICIENT RID	IGE AVAILABLE		







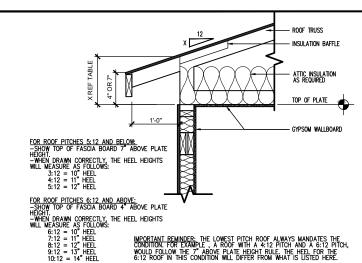
2387 - ASH - RH ---Roof Plan 'B'

> DRAWN BY: South Designs

ISSUE DATE: 09/29/2018

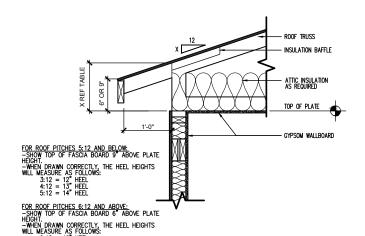
CURRENT REVISION DATE 10/13/2020

3.5b



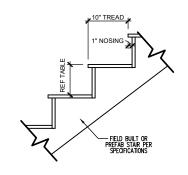
ENERGY HEEL DETAIL: CZ 2 & 3

SCALE: 1" = 1'-0" ON 22x34, 1/2" = 1'-0" ON 11x17



HEEL MPORTANT REMINDER: THE LOWEST PITCH ROOF ALWAYS MANDATES THE LED CONDITION. FOR EXAMPLE. A ROOF WITH A 4:12 PITCH AND A 6:12 PITCH, HEEL WOULD FOLLOW THE 9" ABOVE PLATE HEIGHT RULE. THE HEEL FOR THE "HEEL FOR THE FINE THE HEEL FOR THE FOR TH

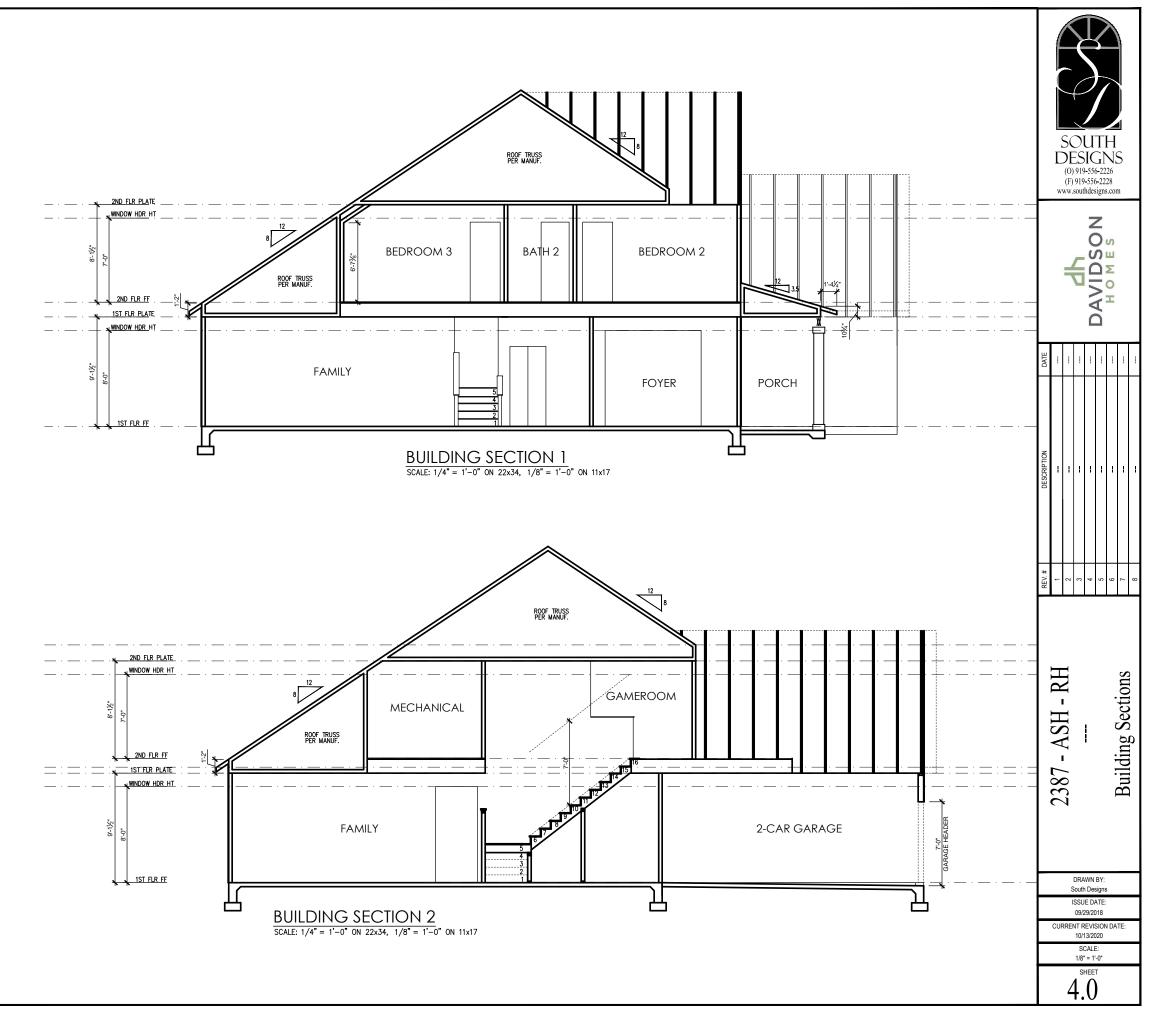
ENERGY HEEL DETAIL: CZ 4 & 5
SCALE: 1" = 1'-0" ON 22x34, 1/2" = 1'-0" ON 11x17



RISER HEIGHTS PER STAIR CONFIGURATION						
PLATE HEIGHT	10" FLOOR SYSTEM	14" FLOOR SYSTEM	16" FLOOR SYSTEM			
8'-1 1/2"	14 RISERS @ 7 11/16"	15 RISERS @ 7 1/2"	15 RISERS @ 7 5/8"			
9'-1 1/2"	16 RISERS @ 7 1/2"	16 RISERS @ 7 3/4"	17 RISERS @ 7 7/16"			
10'-1 1/2"	17 RISERS @ 7 3/4"	18 RISERS @ 7 9/16"	18 RISERS @ 7 11/16"			

TYPICAL STAIR DETAIL

SCALE: 1" = 1'-0" ON 22x34, 1/2" = 1'-0" ON 11x17



ELECTRICAL SYMBOL KEY LIGHT FIXTURES CEILING SURFACE MOUNT LIGHT RECESSED CAN LIGHT RECESSED CAN LIGHT WATERPROOF RECESSED CAN - EYEBALL ◆ PENDANT LIGHTING ₩ALL SCONCE ₩ WALL MOUNT LIGHT FLOOD LIGHT OUTLETS DUPLEX OUTLET GFI OUTLET GFI-WP WATERPROOF GFI OUTLET SWITCHED 1/2 HOT DUPLEX OUTLET 220V OUTLET 1 TELEPHONE OUTLET 1 CATV (TELEVISION) OUTLET 1 □ UNDER-COUNTER OR CONCEALED OUTLETS Ø CEILING MOUNTED DUP. OUTLET \$\mathcal{Q}_{\textstyle{LOOR}} \text{ FLOOR MOUNTED DUP. OUTLET **SWITCHES** \$ SINGLE POLE SWITCH \$3 THREE-WAY SWITCH THREE-WAY SWITCH \$4 FOUR-WAY SWITCH DIS | ELECTRICAL DISCONNECT MISC FIXTURES EXHAUST FAN UNCTION BOX ⊕_{220V} JUNCTION BOX 220V CARBON MONOXIDE DETECTOR OR SMOKE CO.SD CARBON MONOXIDE DETECTOR AND SMOKE ELECTRIC METER ELECTRICAL PANEL DOOR BELL CHIME DOOR BELL PUSH BUTTON CEILING FAN PREWIRE PROVIDE FLUORESCENT LIGHT

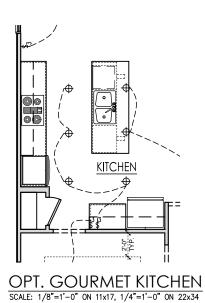
General Power and Lighting:

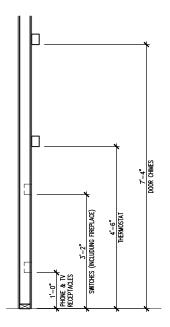
General Power and Lighting Notes shall apply unless noted otherwise on plans.

All work shall be installed per the current NC Residential Building Code, and the National Electric Code. Alarm devices shall meet NFPA 72.

- Smoke Alarms Shall be provided as a minimum of (1) per floor, including basements (fl applicable), (1) in each sleep room, and (1) outside each sleeping area, within the immediate vicinity of sleeping rooms. When more than one alarm is required, the alarm devices shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms. Smoke alarms shall be bard wised to premanent nower and shall have shall be hard wired to permanent power and shall have
- . Switches For lighting, fans, etc. shall be installed at heights illustrated on this page and shall be located a minimum of 4 1/2" from door openings to allow for the proper installation of door casings. Switches, thermostals, security pads, and other similar devices shall be grouped together and installed thoughfully for convenience of use and to avoid placement within centers of wall areas.

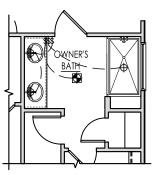
Note:
This plan is a diagram showing approximate locations of convenience outlets based on requirements found in the NC Residential Code and N.E.C. Actual positions may vary from what is shown on plan.



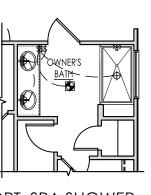


ELECTRICAL BOX HEIGHTS

WELLERS KNOLL LOT 25



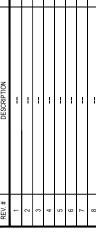






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RH

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-ASH

2387

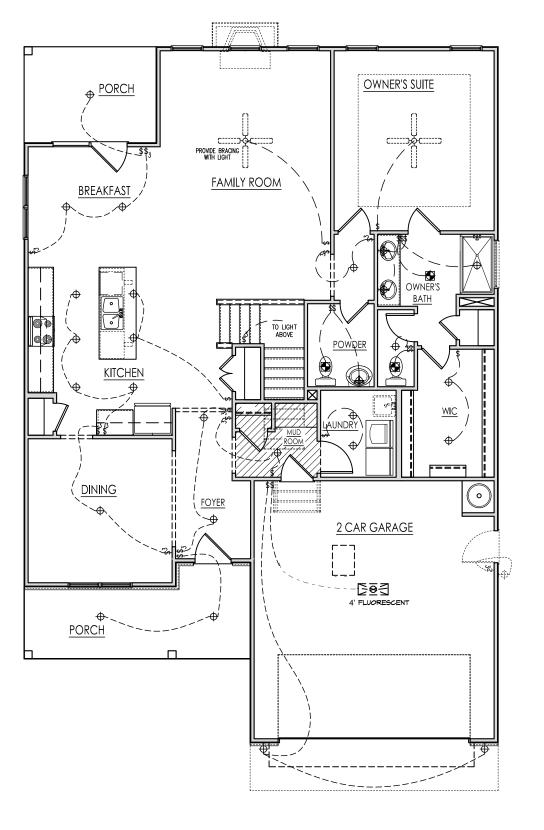
First Floor Electrical 'B'

DRAWN BY: South Designs

ISSUE DATE: 09/29/2018

CURRENT REVISION DATE 10/13/2020 1/8" = 1'-0"

SHEET



ELECTRICAL SYMBOL KEY LIGHT FIXTURES CEILING SURFACE MOUNT LIGHT RECESSED CAN LIGHT RECESSED CAN LIGHT WATERPROOF RECESSED CAN - EYEBALL ● PENDANT LIGHTING ₩ WALL SCONCE ₩ALL MOUNT LIGHT FLOOD LIGHT OUTLETS DUPLEX OUTLET **€**GFI OUTLET GEI-WP WATERPROOF GFI OUTLET SWITCHED 1/2 HOT DUPLEX OUTLET 220V OUTLET TELEPHONE OUTLET Ø CEILING MOUNTED DUP. OUTLET \$\mathcal{Q}_{\textstyle{LOOR}} \text{ FLOOR MOUNTED DUP. OUTLET **SWITCHES** \$ SINGLE POLE SWITCH \$3 THREE-WAY SWITCH \$4 FOUR-WAY SWITCH ELECTRICAL DISCONNECT MISC FIXTURES EXHAUST FAN UNCTION BOX ⊕_{220V} JUNCTION BOX 220V CARBON MONOXIDE DETECTOR OR SMOKE DETECTOR CARBON MONOXIDE DETECTOR AND SMOKE DETECTOR ELECTRIC METER ELECTRICAL PANEL DOOR BELL CHIME DOOR BELL PUSH BUTTON CEILING FAN PREWIRE FLUORESCENT LIGHT

General Power and Lighting:

General Power and Lighting Notes shall apply unless noted otherwise on plans.

All work shall be installed per the current NC Residential Building Code, and the National Electric Code. Alarm devices shall meet NFPA 72.

- . Smoke Alarms Shall be provided as a minimum of (1) per floor, including basements (if applicable), (1) in each sleep room, and (1) outside each sleeping area, within the immediate vicinity of sleeping rooms. When more than one alarm is required, the alarm devices shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms. Smoke alarms shall be hard wired to permanent power and shall have
- Switches For lighting, fans, etc. shall be installed at heights illustrated on this page and shall be located a minimum of 4 1/2" from door openings to allow for the proper installation of door casings. Switches, thermostats, security pads, and other similar devices shall be grouped together and installed thoughtfully for convenience of use and to avoid placement within centers of wall areas.

Note:
This plan is a diagram showing approximate locations of convenience outlets based on requirements found in the NC Residential Code and N.E.C. Actual positions may vary from

ELECTRICAL BOX HEIGHTS

WELLERS KNOLL

LOT 25







Second Floor Electrical 'B' - RH

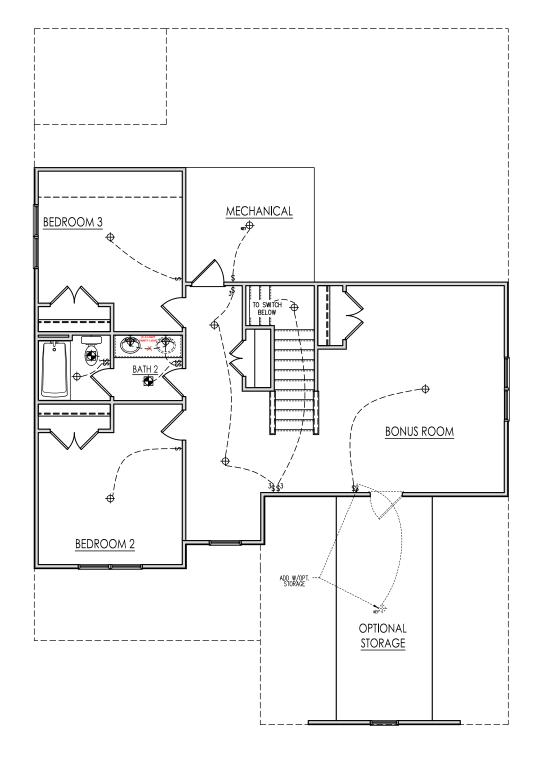
ASH ı 2387

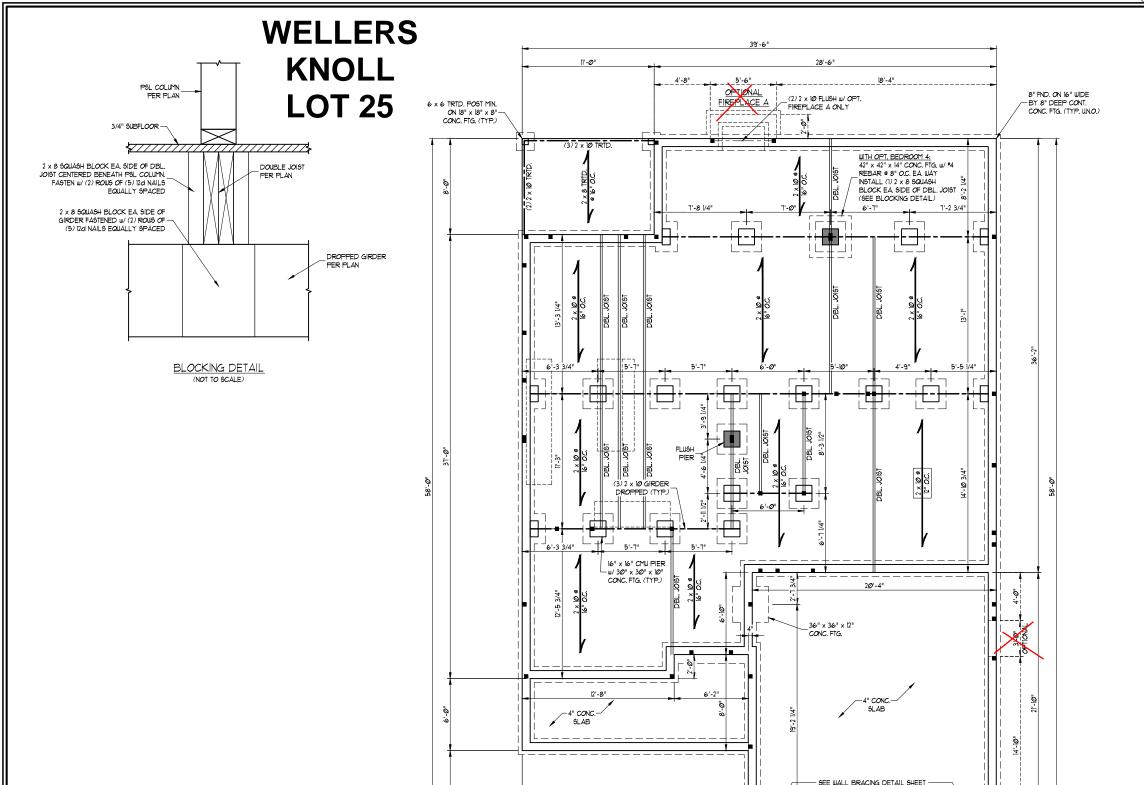
> DRAWN BY: South Designs

ISSUE DATE: 09/29/2018

CURRENT REVISION DATE 10/13/2020 1/8" = 1'-0"

SHEET





ELEVATIONS A, B, & C

CONC. FTG.

39'-6"

SCALE NOTE: LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

> ON CZZGGG ഗ THOMPS INEERING,

> > S

MANAGEMENT H 1/4/2023

120 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- ENGINEER'S SEAL APPLIES ONLY TO
 STRUCTURAL COMPONENTS. ENGINEER'S SEAL
 DOES NOT CERTIFY DIVENSIONAL
 ACCURACY OR ARCHITECTURAL LAYOUT
 NCLIDING ROOF SYSTEM
 2. STRUCTURAL DESIGN FER NORTH CAROL INA
 RESIDENTIAL CODE, 70% EDITION.
 NSTALL 12" ANCHOR BOLTS 6-0" OC. AND
 WITHIN 1-0" FROM END OF EACH CORNER
 ANCHOR ROLTS HIST ENTEND A MINIMUM OF
 T NITO MASCARY OR CONCRETE LOCATE
 BOLT WITHIN MODILE THEO OF FLATE WIDH.
 4. MEAN ROOF NEIGHT IS LESS THAN 30 FEET.
 5. EXTERIOR WALLS DESIGNED FOR 120 MINIO.

- 5. EVTERIOR WALLS DESIGNED FOR 120 MPH WINDS.

 10. WALL CLADDING DESIGNED FOR 135 PSF AND 29 PSF (11 MDICATE POSITIVE / NEGATIVE PRESSURE (17 P).

 11. ROOF CLADDING DESIGNED FOR 42 PSF AND 18 PSF FOR ROOF PITCHES 1/17 TO 12/1 AND 160 PSF FOR ROOF PITCHES 1/27 TO 12/1 AND 160 PSF AND 180 PSF FOR ROOF PITCHES 1/27 TO 12/1 AND 160 PSF AND 180 PSF AND 180

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 12 SPF OR 2 SYP (UNO). ALL TREATED LUMBER TO BE 2 SYP
- INSTALL DOUBLE OR TRIPLE JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED
- TO FLOOR JOISTS WHERE NOTED ON THE PLANS.

 SOULARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION.

 SHADED PIERS TO BE FILLED
- SOLID.

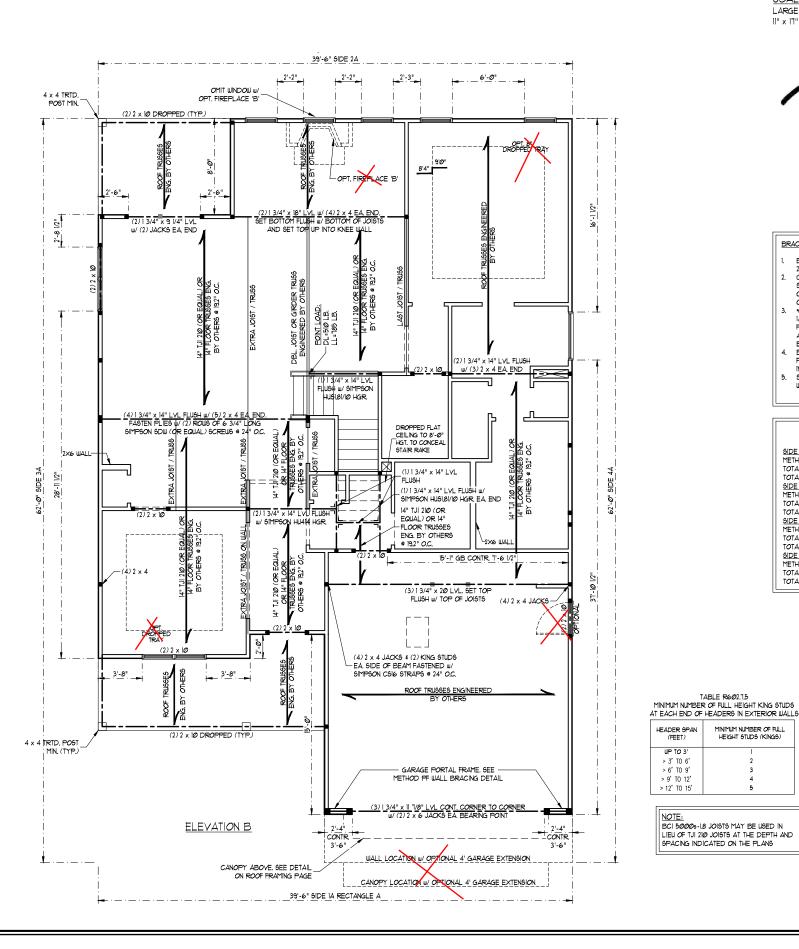
 NSTALL LADDER WIRE © 16" O.C.

 TO SECURE MULTIPLE WITHE FOUNDATION WALLS TOGETHER. REFER TO NOTES AND DETAIL
- SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

ATE: JANUARY 4, 2023

DRAWN BY: SOUTH DESIGN GINEERED BY: JAG

S-1.1b CRAWL FOUNDATION PLAN w/ OPT, 2 x 10 IOISTS



SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

WALLEY H.

1/4/2023

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602:10 OF THE NORC 2018 EDITION.
- CS-USP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR 19 TO INSTALL 1/16" OSB ON ALL EXTERIOR WALLS ATTACHED W/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.

 *GB REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL
- 1/2" (MIN.) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH I 1/4" SCREWS OR I 5/8" NAILS SPACED T" O.C. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.
- BOTION PLATES.

 BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH.

 FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED

 IN ACCORDANCE WITH CHAPTER 45 OF THE NORC 2018 EDITION.

 SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED

WALL INFORMATION.

BRACED WALL DESIGN

RECTANGLE A SIDE 1A (FRONT LOAD) RECTANGLE B METHOD: PF/C5-WSP TOTAL REQUIRED LENGTH: 2.4T' METHOD: CS-WSP/GB/PF TOTAL REQUIRED LENGTH: 15.58' TOTAL PROVIDED LENGTH: 21.881 TOTAL PROVIDED LENGTH: 9" SIDE 2A METHOD: C5-WSP METHOD: CS-WSP

TOTAL REQUIRED LENGTH: 15.58'
TOTAL PROVIDED LENGTH: 11.58' TOTAL REQUIRED LENGTH: 2.41'
TOTAL PROVIDED LENGTH: 14.0' SIDE 3A METHOD: C5-WSP SIDE 3B/4A COMBINED METHOD: CS-WSF

TOTAL REQUIRED LENGTH: 1031' TOTAL REQUIRED LENGTH: 1231' TOTAL PROVIDED LENGTH: 56.61' TOTAL PROVIDED LENGTH: 29.0' SIDE 4B METHOD: C9-WSF SIDE 4A (SIDE LOAD)

TOTAL REQUIRED LENGTH: 10:31 TOTAL PROVIDED LENGTH: 34Ø' TOTAL PROVIDED LENGTH: 16.61'

MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)

BCI 5000s-18 JOISTS MAY BE USED IN

SPACING INDICATED ON THE PLANS

> 6' TO 9'

> 9' TO 12

> 12' TO 15'

TOTAL REQUIRED LENGTH: 20'

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPE #2 OR #2 SYP (UNO). ALL TREATED LUMBER TO BE SYP 2 (UNO). ALL LOAD BEARING HEADERS TO BE (2) 2 x 6
- INSTALL AN EXTRA JOIST UNDER WALLS PARALLEL
- TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
 WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.) SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD
- REQUIREMENTS.
 SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. AL SQUARES TO BE (2) STUDS (UNO.)
- ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS W/SIMPSON ABU44 POST BASES (OR EQUAL) AND 6 x 6 POSTS w/ ABU66 POST BASES (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT
- CONNECTORS AT TOP (UNO.)
 FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO SLAB w/ (2) METAL ANGLES USING 2" CONC. SCREWS. FASTEN ANGLES TO COLUMNS W/ 1/4" THROUGH BOLTS W/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

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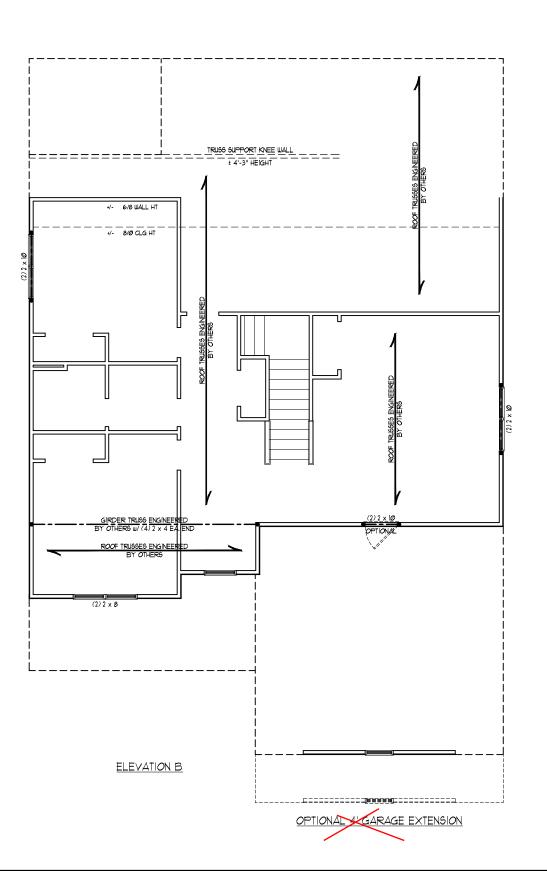
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ATE: JANUARY 4, 2023

RAWN BY: SOUTH DESIGN INEERED BY: JAG

> S-2b SECOND FLOOR FRAMING PLAN



SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE



1/4/2023

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R60/210 OF THE NCRC 20/8 EDITION. CS-USP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL T/IG" OSB ON ALL EXTERIOR WALLS ATTACHED W/ 8d NAILS SPACED 6"
- ON ALL EXTERIOR WALLS ATTACHED W 26 NAILS SPACED 6"
 OC. ALONG PANEL EDGES AND 10" OC. IN THE FIELD
 GB REFERS TO "GYPSUM BOARD" CONTRACTOR 16 TO NOTALL
 1/2" (MIN) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS.
 FASTEN GB WITH I 1/4" SCREWS OR 15/6" NAILS SPACED 1" OC.
 ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND
 BOTTOM PLATES.
 BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH.
 FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED
 IN ACCORDANCE WITH CHAPTER 45 OF THE NORC 2018 EDITION
 SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED
 WALL INFORMATION
- WALL INFORMATION.

NOTE:

- PER SECTION R6021032 OF THE 2018 NCRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL
- ANALYSIS IS REQUIRED.
 SHEATH ALL EXTERIOR WALLS WITH 1/16" OSB SHEATHING
 ATTACHED WITH 80 NAILS AT 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE *2 SPF OR 2 SYP (UNO).

 ALL LOAD BEARING HEADERS TO BE
- (2) 2 x 6 (UNO).

 3. WINDOW AND DOOR HEADERS TO BE
- SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA, END (UNO.), SEE TABLE R602.15 FOR ADDITIONAL KING STUD REQUIREMENTS.
- . SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SQUARES TO BE (2) STUDS (UNO.)

 REFER TO NOTES AND DETAIL SHEETS
- FOR ADDITIONAL STRUCTURAL INFORMATION.

TABLE R602.15 MINIMUM NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

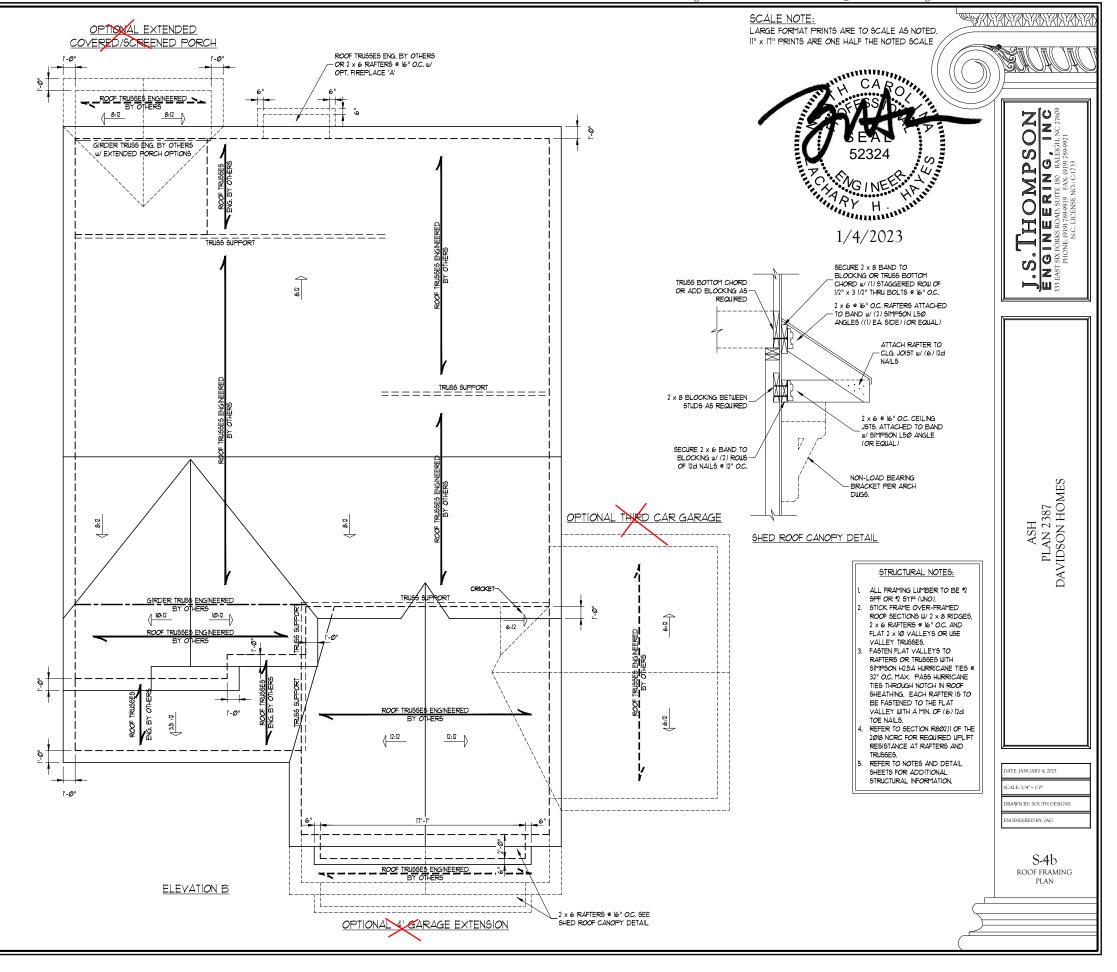
HEADER SPAN (FEET)	MINIMUM NUMBER OF FUL HEIGHT STUDS (KINGS)
UP TO 3'	I
> 3' TO 6'	2
> 6' TO 9'	3
> 9' TO 12'	4
> 12' TO 15'	5

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ATE: JANUARY 4, 2023 DRAWN BY: SOUTH DESIGN

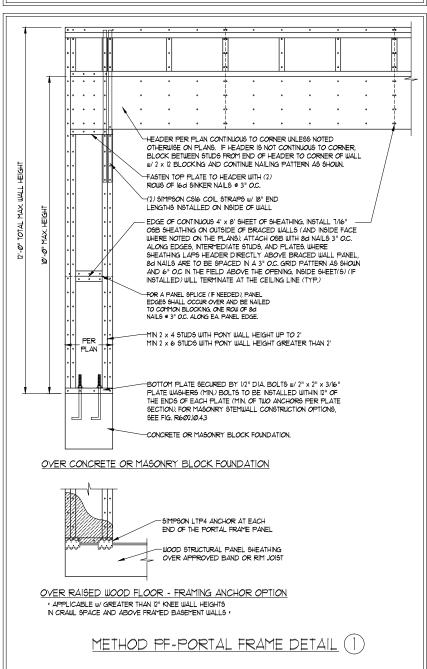
GINEERED BY: JAG

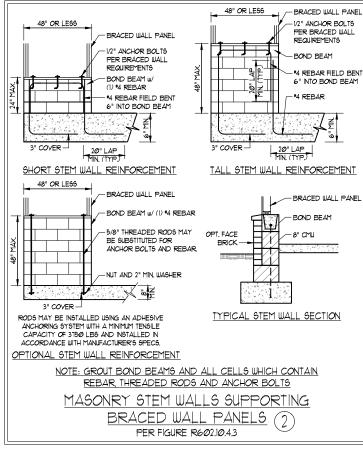
S-3b ATTIC FLOOR FRAMING PLAN

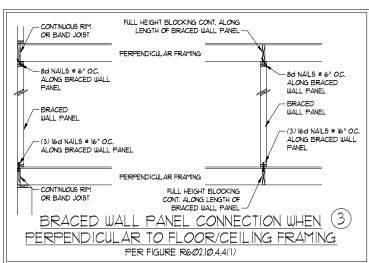


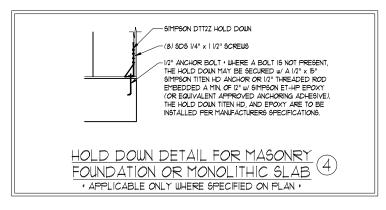
GENERAL WALL BRACING NOTES:

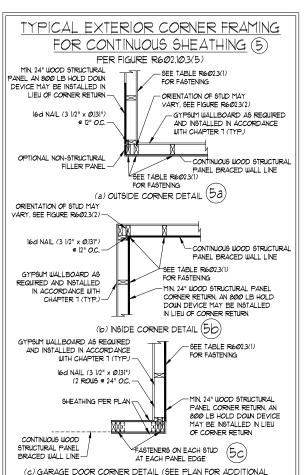
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC.) TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NORC.
 SEE THIS SHEET FOR GENERAL DETAILS, REFER TO THE 2018 NORC FOR ADDITIONAL INFORMATION AS NEEDED.
- BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED PER R602.3.5 (3), WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERED PRACTICE.
- 4. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS.
- ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.
- 6. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED, WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED PER TABLE R1023.5. METHOD GB TO BE FASTENED PER TABLE R602.10.1
- CS-USP REFERS TO THE "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 1/16" OSB SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED W/ 6d COMMON NAILS OR 8d (2 1/2" LONG X Ø/13" DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (UNO.).
- GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN.) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH 1/4" SCREWS OR 15/8" NAILS SPACED TO OC. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UN.O.). YERRY ALL FASTENER OPTIONS FOR 1/2" AND 5/8' GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE RT02.35. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R602.3(1). EXTERIOR GB TO BE INSTALLED VERTICALLY.
- REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE REGIZ, 103, METHOD CE-149° CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND METHOD FF CONTRIBUTES IS ITS ACTUAL LENGTH.









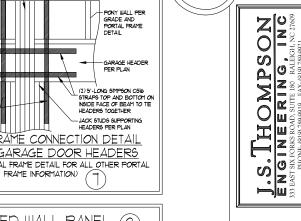


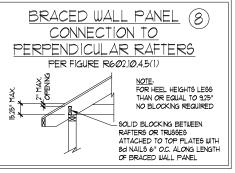
ITINUOUS RIM W/ FINGER

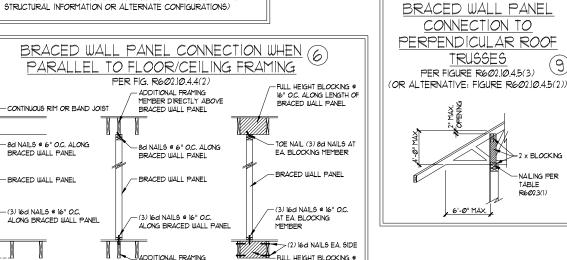
JOISTS OR DBL. BAND JOIST

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x IT" PRINTS ARE ONE HALF THE NOTED SCALE KING STUDS BETWEEN GARAGE HEADERS PER PLAN -GRADE AND PORTAL FRAME -GARAGE HEADER PER PLAN (2) 5'-I ONG SIMPSON CSIG STRAPS TOP AND BOTTOM OF NSIDE FACE OF BEAM TO TIE VERTICAL STRAPS PER PORTAL FRAME DETAIL HEADERS TOGETHER JACK STUDS SUPPORTING HEADERS PER PLAN PORTAL FRAME CONNECTION DETAIL BETWEEN GARAGE DOOR HEADERS REFERENCE PORTAL FRAME DETAIL FOR ALL OTHER PORTAL FRAME INFORMATION)

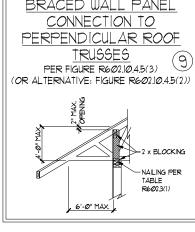
SCALE NOTE:







16" O.C. ALONG LENGTH OF BRACED WALL PANEL





RAWN BY: SOUTH DESIGN INEERED BY: IAG

PLAN 23 DAVIDSON F

D-3 WALL BRACING NOTES AND DETAILS

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MEMBER DIRECTLY BELOW

BRACED WALL PANEL

GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC.), 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R301.4 R301.1)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	2Ø	10	L/240 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	10	L/360
DECK\$	40	10	L/360
EXTERIOR BALCONIES	40	10	L/360
FIRE ESCAPES	40	10	L/360
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	10	L/36Ø
PASSENGER VEHICLE GARAGE	5Ø	10	L/36Ø
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/36Ø
SLEEPING ROOMS	3Ø	10	L/36Ø
STAIRS	40	10	L/36Ø
WIND LOAD	(BASED ON TABLE R3012(4) WIND ZONE AND EXPOSURE)	
GROUND SNOW LOAD: Pg	2Ø (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- 4 FOR 115 AND 120 MPH WIND 70NES FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403 16 OF THE NCRC 2018 EDITION FOR 130 MPH 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NCRC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- 1. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC. 2019 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE \$LAB IS AT OR BELOW WATER TABLE. I APPLICABLE, 3/4" - I" DEEP CONTROL JOINTS ARE TO BE SAWED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4 CONCRETE SHALL CONFORM TO SECTION R4022 OF THE NGRG 2016 EDITION CONCRETE REINFORCING STEEL TO BE 45TM 4615 GRADE 60 WELDED WIRE FABRIC TO BE ASTM A185. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL. SHALL NOT BE LESS THAN 1 1/2" FOR *5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR *6 BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C270.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR 5 MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY.
- 1. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING, EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/ASCE 5/TM5 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404,1.(1), R404,1.(2), R404,1.(3), OR R404,1.(4) OF THE NCRC, 2018 EDITION, CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.(5) OF THE NCRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" OC WHERE GRADE PERMITS (UNO)

FRAMING NOTES

- ALL FRAMING LUMBER SHALL BE *2 SPF (Fb = 815 P6), Fv = 315 P6), E = 1600000 P6)) OR *2 SYP (Fb = 915 P6), Fv = 115 P6), E = 1600000 PSI) MINIMUM UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE 12 SYP MINIMUM UNLESS NOTED OTHERWISE (UNO).
- 2. LAMINATED VENEER LUMBER (LVL.) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES; Fb =2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E = 1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 20000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

W AND WT SHAPES: ASTM A992 ASTM A36 CHANNELS AND ANGLES: PLATES AND BARS ASTM A36 HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B

ASTM A53, GRADE B, TYPE E OR S STEEL PIPE:

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOUS (UNO):

A. WOOD FRAMING (2) 1/2" DIA. x 4" LONG LAG SCREWS B. CONCRETE (2) 1/2" DIA, x 4" WEDGE ANCHORS (2) 1/2" DIA, x 4" LONG SIMPSON TITEN HD ANCHORS C MASONRY (FULLY GROUTED)

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2X NAILER IS SECURED TO THE TOP OF THE STEEL BEAM w/ (2) ROWS OF SELF TAPPING SCREWS @ 16" O.C. OR (2) ROWS OF 1/2" DIAMETER BOLTS @ 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED W/ (2) ROWS OF 9/16" DIAMETER HOLES @ 16" O.C.

- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NORC, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END (UNO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO). INSTALL KING STUDS PER SECTION R602.7.5 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 1. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE I 1/2" MINIMUM BEARING (UNO). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A301) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- 9. ALL 1-JOIST OR TRUGS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING CRITERIA, THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.10.
- PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I-JOISTS PER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES
- 12. FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-Ø" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (UN.O). FOR ALL HEADERS 8'-O" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH 1/2" LAG SCREWS AT 12" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED W/ (4) 12d NAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION RT03,82.1 OF THE NCRC, 2018 EDITION.
- 13. FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOUN (UNO)
- 14. FOR TRUGGED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUGGES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- 15. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON H6 OR LTSI2 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON CS16 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

SCALE NOTE: LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. II" x IT" PRINTS ARE ONE HALF THE NOTED SCALE

1/4/2023

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387 HOMES

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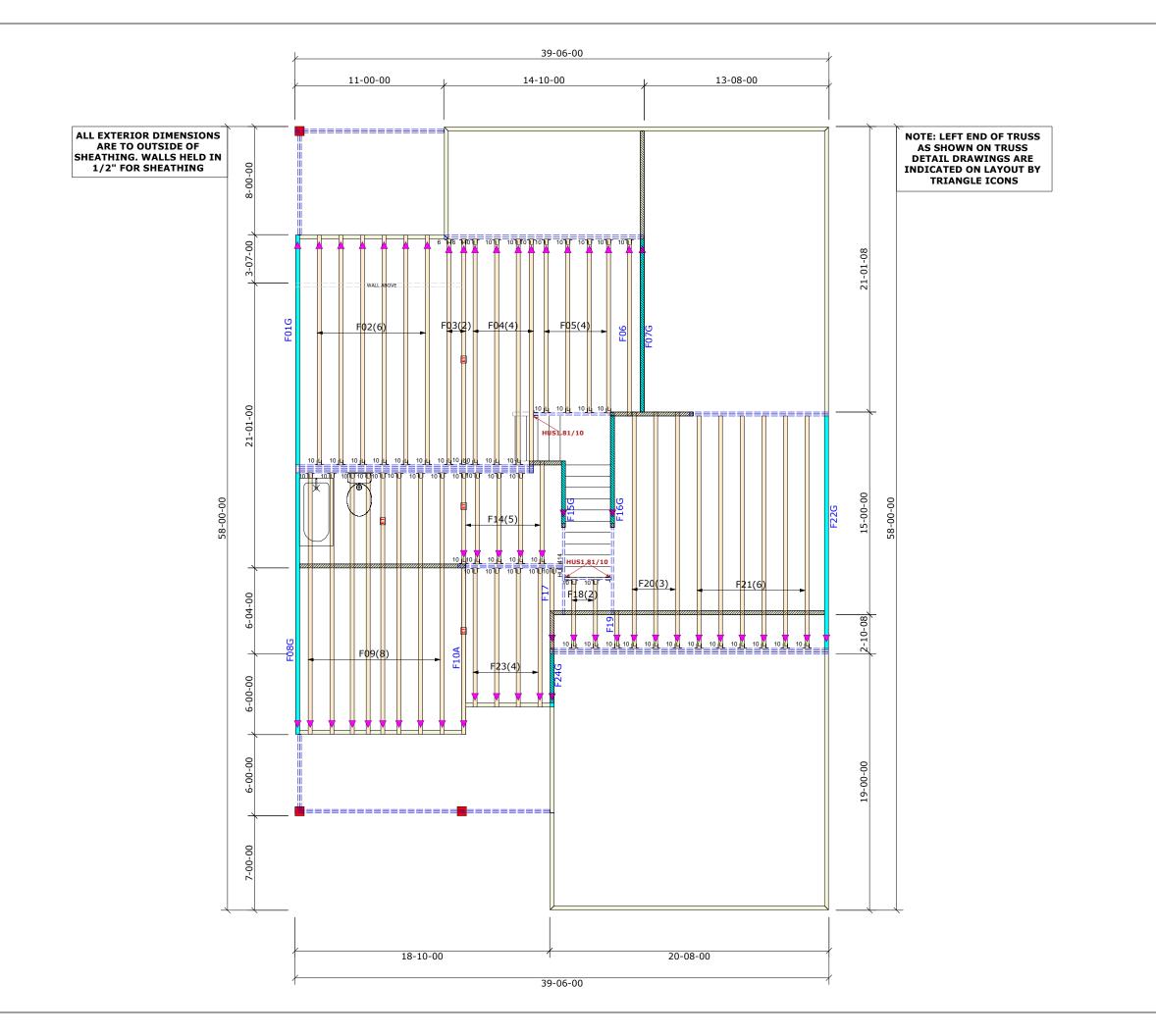
by others is a punishable offense

under N.C. Statute \$ 89C-23

D-4 STANDARD STRUCTURAL NOTES

ATE: JANUARY 4, 2023 RAWN BY: SOUTH DESIGN

INEERED BY: IAG





Builders First Source

23 Red Cedar Way Apex, NC 27523 Phone: (919) 363-4956 Fax: (919) 387-8565 http://www.bldr.com

- General Notes:
 Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Dimensions are Feet-Inches- Sixteenths.
- Trusses are to be 24" o.c. unless noted otherwise (U.N.O.)
- Trusses are not designed to support brick U.N.O.
- Do not cut or modify trusses without first contacting Builders FirstSource.
- Immediately contact Builders FirstSource if trusses are damaged.

 Connection Notes:

- All hangers are to be Simpson or equivalent U.N.O.
- Use Manufacturer's specifications for all hanger connections U.N.O.
 - Use 10d x 1 1/2" Nails in hanger connections to single ply

roof girder trusses. Floor Notes:

- Shift truss as required to avoid plumbing traps.
- Installation Contractor and/or Field Supervisor are to verify all dimensions, trap locations, and options prior to installation

Dimension Notes:

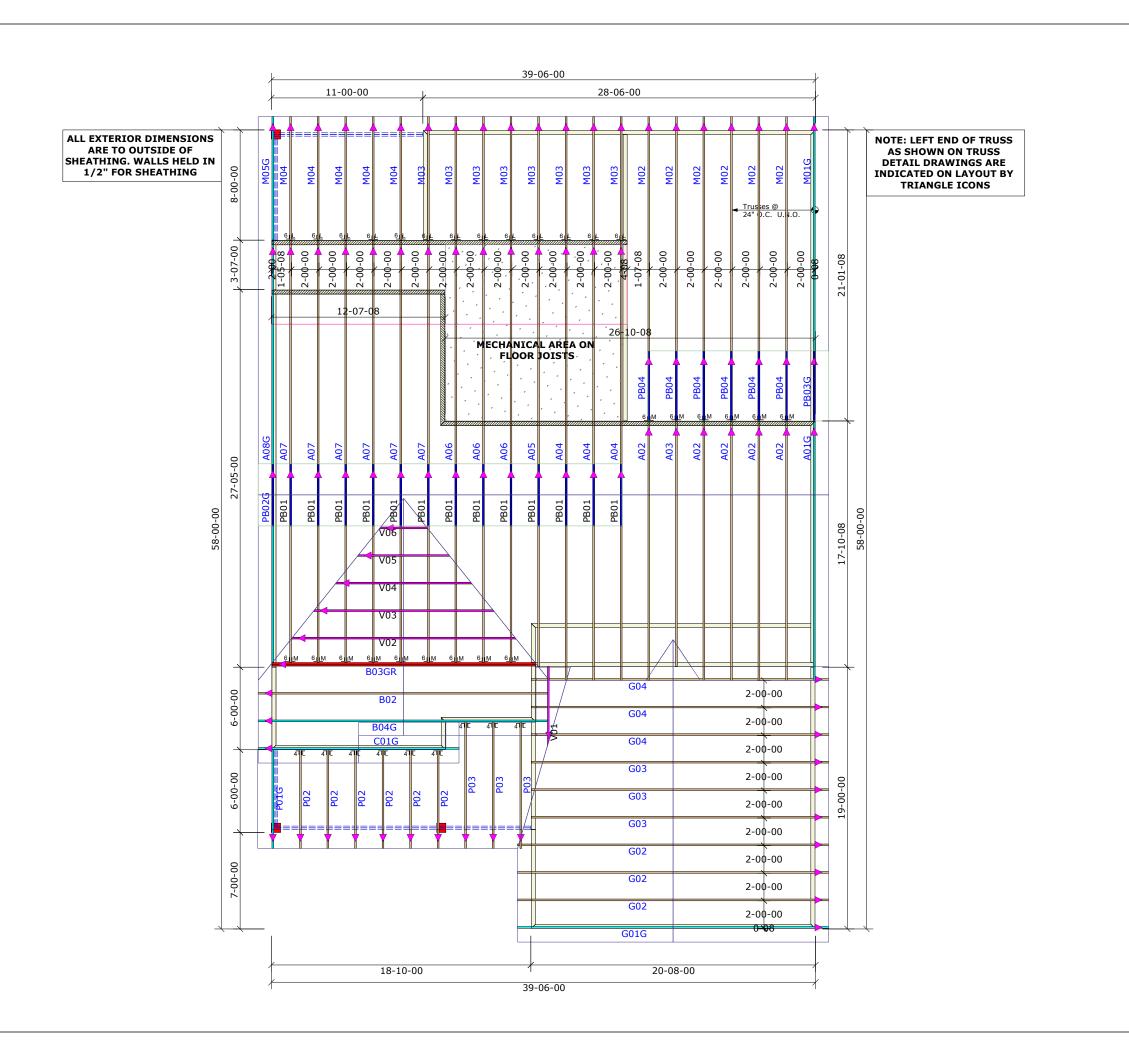
- Drawing not to scale. Do not scale dimensions

3D View 1st Level

<u>Hanger List</u>			All Tie Downs H2.5T Unless noted					
			Special Items List					
					<u>Misc</u>	<u>Mai</u>	<u>terial</u>	
			D	avid	dson			
	Α	sh			Elev:		В	
W	elle	rs Kn	oll/1	24 ۱	24 Van Winkle Street			
Wa	ake		N	2	Lot: 25			
				Appwright #				
					Permit (3509588)			
Ga	arag	e Rig	ht		Code:		IRC 2015	
							ling:	
					T.C.L.L		40	
Designed	By:		CFC		T.C.D.L		10	
Layout:		AB.I			B.C.L.L.		0	
L/O Date: 05/04/202			3	B.C.D.L. 5				
Revision History				Wind:				
Rev1:	xx/xx/xx				M.P.H			
Rev2:	7077707						Category	
Rev3: XX/XX/XX				B (Wooded areas/othe				
Pick Tick					Job No			
Sales N	o:				Acct No	2:		

Hatch Legend

Volume Ceiling Stick Framing





Builders First Source

23 Red Cedar Way Apex, NC 27523 Phone: (919) 363-4956 Fax: (919) 387-8565 http://www.bldr.com

- General Notes:
 Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Dimensions are Feet-Inches- Sixteenths.
- Trusses are to be 24" o.c. unless noted otherwise (U.N.O.)
- Trusses are not designed to support brick U.N.O.
- Do not cut or modify trusses without first contacting Builders FirstSource.
- Immediately contact Builders FirstSource if trusses are damaged.

 Connection Notes:

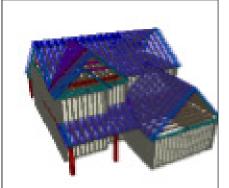
- All hangers are to be Simpson or equivalent U.N.O.
- Use Manufacturer's specifications for all hanger connections U.N.O.
 - Use 10d x 1 1/2" Nails in hanger connections to single ply
- roof girder trusses.

Floor Notes:

- Shift truss as required to avoid plumbing traps.
- Installation Contractor and/or Field Supervisor are to verify all dimensions, trap locations, and options prior to installation

Dimension Notes:

- Drawing not to scale. Do not scale dimensions



	Hanger List			All Tie Downs H2.5T Unless noted				
9		LUS24 <u>1</u> 114			Special	Ite	ms List	
13 15	LUS		MI L6					
10	1110.		T WILL					
					Misc	Ма	terial	
			D	avid	lson			
	P	۱sh			Elev:		В	
	Welle	rs Kn	oll/1	24 \	/an Winl	de s	Street	
	Wake		N	C	Lot:	25		
					Ap	owi	ight #	
					Permit (3509589)			
	Garag	je Rig	ht		Code:		IRC 2015	
					<u>Loading:</u>			
					T.C.L.L	.	20	
Desi	gned By:	(CFC		T.C.D.I	-	10	
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Revision History			Wind:					
Rev1: XX/XX/XX			M.P.H. 115					
Rev2: XX/XX/XX			Exposure Category					
Rev	3:	xx/xx	(/xx		B (Woo	ded	areas/other	
	Ticket:				Job No			
Sa	les No:				Acct No	2.:		

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	Attic Room	7
	Volume Ceiling	4
	Stick Framing	