## **GENERAL NOTES:**

- SOIL BEARING CALCULATIONS BASED ON 2000 PSF MIN. REFER TO THE FOUNDATION/FOOTING SCHEDULE.
- BACK FILL SHALL BE FREE FROM VEGETATION AND CONSTRUCTION DEBRIS. BACK FILL SHALL BE PLACED IN LIFTS AND COMPACTED IN SUCH A MANNER AS TO NOT DAMAGE THE FOUNDATION WALLS OR ANY WATERPROOFING/ DAMP PROOFING

- ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD. ALL STUDS ARE 3 1/2" UNLESS NOTED. ALL DIMENSIONS PRESENTED HERE ARE FRAME DIMENSIONS ONLY.
- PROVIDE 1x BLOCKING UNDER ALL EXTERIOR SLIDING DOORS.
- JOIST HANGERS, WHERE REQUIRED, SHALL BE USED WITHOUT ANGLES
- INSTALL FIRE STOPPING AND/ OR DRAFT STOPPING AS REQUIRED. PROVIDE CUTTING, NOTCHING, NAILING REQUIREMENTS PER 2009-IRC SECTIONS

#### THERMAL & MOISTURE PROTECTION:

- INSTALL FIRE STOPPING AND/ OR DRAFT STOPPING AS REQUIRED.
- ATTIC VENTILATION SHALL BE PROVIDED AT 1/150th OF THE AREA OF THE SPACE VENTILATED. CROSS VENTILATION WITH HALF OF THE VENTILATED AREA SHALL BE PROVIDED BY RIDGE OR GABLE VENTS AND THE OTHER HALF BY EAVE OR CORNICE VENTS. VENTS SHALL BE PLACED SO AS TO NOT ALLOW INFILTRATION OF RAIN OR
- PROVIDE APPROVED TILE BACKER BOARD FOR ALL SHOWER AND BATH SPACE.
- PROVIDE ICE-SHIFLD PER CODE
- ROOF VENTING TO BE PROVIDED AS SHOWN. SOFFIT, RIDGE, AND OTHER ROOF VENTS TO BE INSTALLED AS NOTED ON THE DRAWINGS & AS PER MANUFACTURERS

#### DOORS & WINDOW

- WINDOW CALL OUT PER PLAN. VERIFY WINDOW MANUFACTURER WITH PROJECT
- REVIEW ALL WINDOW HEADER HEIGHTS PER PLATE HT. AND VERIFY W/ ELEVATIONS AND CORNICE DETAILS.
- TEMPERED GLASS SHALL BE USED IN ALL HAZARDOUS AREAS.
- FRONT DOOR WIDTH AS REQUIRED BY CODE GARAGE DOOR AS REQUIRED BY CODE.
- EMERGENCY SLEEPING ROOMS SHALL HAVE AT LEAST ONE EGRESS OPENING OF NOT LESS THAN 5.7 SF AND A CLEAR OPENING OF NOT LESS THAN 20" WIDE X 24" HIGH AND SHALL NOT BE MORE THAN 44" ABOVE THE FLOOR.

EXTERIOR WALLS ZONE 3: R-13 BATTS MINIMUM. VERIFY

CEILING WITH ATTIC ABOVE COMPRESSED INSULATION: R-38 BATTS MINIMUM, VERIFY

CEILING WITH ATTIC ABOVE UNCOMPRESSED INSULATION (HEELS IN TRUSSES): R-30 BATTS MINIMUM VERIEY

FLOOR OVER GARAGE

R-19 BATTS MINIMUM, VERIFY

ATTIC KNEEWALL:

R-19 BATTS MINIMUM. VERIFY

## **BUILDING CODE ANALYSIS**

USER GROUP CONSTRUCTION CLASS: HEIGHT LIMITATION: **EMERGENCY ESCAPE** 

SINGLE FAMILY UNPROTECTED EGRESS OR RESCUE WINDOWS FROM SLEEPING ROOM SHALL HAVE A MINIMUM OF 5.7 SQ. FT.

 $\frac{1}{2}$ " GYPSUM BD. WALL &  $\frac{5}{8}$ "TYPE "X" GYPSUM BD. CEILING W/ 20 MINUTE GARAGE/HOUSE DOOR

DESIGN LOAD:

SLEEPING = 30 PSF NON-SLEEPING = 40 PSF DECKS = 40 PSF

DEAD LOAD = 10 PSF BASIC WIND SPEED = 115 MPH EXPOSURE B (CHARLOTTE) STAIR LOAD = 40 PSF ROOF LIVE LOAD = 20 PSF LATERAL SOIL PRESSURE = 30 PCF

(ASSUMED)

VERIFY ALL APPLICABLE BUILDING CODES WITH STATE AND LOCAL JURISDICTION PRIOR TO CONSTRUCTION

- THE ATTACHED PLANS & SPECIFICATIONS ARE THE SOLE PROPERTY OF DAVIDSON HOMES. ANY UNAUTHORIZED USE OF THESE PLANS WITHOUT PRIOR WRITTEN CONSENT OF DAVIDSON HOMES IS STRICTLY PROHIBITED
- MAIN STREET DESIGNS OF GEORGIA, LLC DESIGNS HOUSING AS SET FORTH BY THE FORMAT AND PROVISIONS OF THE INTERNATIONAL RESIDENTIAL CODE (IRC), AND THE NATIONAL ELECTRIC CODE (NEC).
- THESE PLANS ARE SUBJECT TO MODIFICATIONS TO MEET CODE REQUIREMENTS AND/OR TO FACILITATE MECHANICAL/ ELECTRICAL/ PLUMBING INSTALLATION AND/ OR TO IMPLEMENT DESIGN IMPROVEMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AFFECTING CONTRACTOR'S PRODUCTS. INSTALLATIONS, OR FABRICATIONS IN THE FIELD PRIOR TO EXPEDITING THE CONSTRUCTION OF SUCH WORK. FIELD VERIFY ALL DIMENSIONS - DO NOT SCALE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR SURVEYING THE PROJECT AND BECOMING FAMILIAR WITH THE EXISTING CONDITIONS AND SCOPE OF WORK INCLUDING BUT NOT LIMITED TO SITE AND SOIL BEARING CONDITIONS
- ERRORS AND OMISSIONS WHICH MAY OCCUR IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF MAIN STREET DESIGNS OF GEORGIA, LLC IN WRITING, AND WRITTEN INSTRUCTION SHALL BE OBTAINED PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ERRORS, DISCREPANCIES, OR OMISSIONS FOR WHICH THE CONTRACTOR FAILED TO NOTIFY MAIN STREET DESIGNS OF GEORGIA. LLC PRIOR TO CONSTRUCTION AND/ OR FABRICATION OF
- 6) FLAME SPREAD AND SMOKE DENSITY NOTES:

#### WALLS AND CEILING:

WALL AND CEILING FINISHES SHALL HAVE A FLAME - SPREAD CLASSIFICATION OF NOT GREATER THAN 200. WALL AND CEILING FINISHES SHALL HAVE A SMOKE-DEVELOPED INDEX OF NOT GREATER THAN 450.

#### INSULATION:

IF BATT OR BLANKET INSULATION, INCLUDING FACINGS SUCH AS VAPOR RETARDERS OR OTHER VAPOR PERMEABLE MEMBRANES ARE LEFT EXPOSED (IN AREAS LIKE UNFINISHED BASEMENTS) THE MATERIAL SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPMENT RATING OF 450 OR LESS. FLAME-SPREAD AND SMOKE-DEVELOPMENT LIMITATIONS DO NOT APPLY TO FACINGS THAT IS INSTALLED IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, FLOOR, OR

EXCEPT WHERE OTHERWISE NOTED IN SECTION R314.2, ALL FOAM PLASTIC OR FOAM PLASTIC CORES IN MANUFACTURED ASSEMBLIES USED IN BUILDING CONSTRUCTION SHALL HAVE A FLAME-SPREAD RATING OF NOT MORE THAN 75 AND SHALL HAVE A SMOKE-DEVELOPMENT RATING OF NOT MORE THAN 450 WHEN TESTED IN THE MAXIMUM THICKNESS INTENDED FOR USE IN ACCORDANCE WITH ASTM E 84.

R314 1.2 THERMAL BARRIER FOAM PLASTIC EXCEPT WHERE OTHERWISE NOTED. SHALL BE SEPARATED FROM THE INTERIOR OF A BUILDING BY MINIMUM1/2-INCH (12.7 MM) GYPSUM BOARD OR AN APPROVED FINISH MATERIAL EQUIVALENT TO A THERMAL BARRIER TO LIMIT THE AVERAGE TEMPERATURE RISE OF THE UNEXPOSED SURFACE TO NO MORE THAN 250°F(121°C) AFTER 15MINUTES OF FIRE EXPOSURE TO THE ASTM E 119 STANDARD TIME TEMPERATURE CURVE. THE GYPSUM BOARD SHALL BE INSTALLED USING A MECHANICAL FASTENING SYSTEM IN ACCORDANCE WITH SECTIOR702.3.5. RELIANCE ON ADHESIVES TO ENSURE THAT THE GYPSUM BOARD WILL REMAIN IN PLACE WHEN EXPOSED TO FIRE SHALL BE PROHIBITED.

## CRAWL VENTING

1277 SQ FT OF FOUNDATION TO BE VENTED
150 SQ FT / 1 SQ FT = 8.51 SQ FT VENTILATION

VENTS 128 SQ IN = (0.8889 SQ FT)

CRAWL VENT

8.513 SQ FT
0.2778 SQ FT = 30.6 VENTS REQUIRED

NOTE: WHERE AN APPROVED VAPER BARRIER IS INSTALLED OVER GROUND SURFACE THE REQUIRED.

VENTILATION MAY BE REDUCED BY 50%

# **Wellers Knoll Lot 81 HICKORY II**

## **ELEVATION - B**



FRONT DOOR **STYLE PER PURCHASE** ORDER

## **INCLUDED OPTIONS:**

1st FLOOR **COVERED PORCH BOX OAK STAIRS OPEN RAIL** FIXED WINDOWS @ STUDY TRANSOM WINDOW @ MUD ROOM **GARAGE SERVICE DOOR** 4' GARAGE EXTENSION

2nd FLOOR TRAY CEILING @ OWNERS FIXED WINDOWS @ OWNERS **OWNERS SPA SHOWER LAUNDRY SINK** 

BASE HOUSE SQUARE FOOTAGE CALCULATIONS								
ELEVATIONS	1st FLOOR	2nd FLOOR	TOTAL FIN.	FRONT PORCH	GARAGE	ROOF		
ELEV. B	1,277 s.f.	1,458 s.f.	2,735 s.f.	165 s.f.	437 s.f.	3,337 s.f.		
	OPTIONS SQUARE FOOTAGE CALCULATIONS							
OPTIONS: 1st FLOOR								
GARAGE EXTENSI	ON	+84 s.f.						
COVERED PORCH		+115 s.f.						

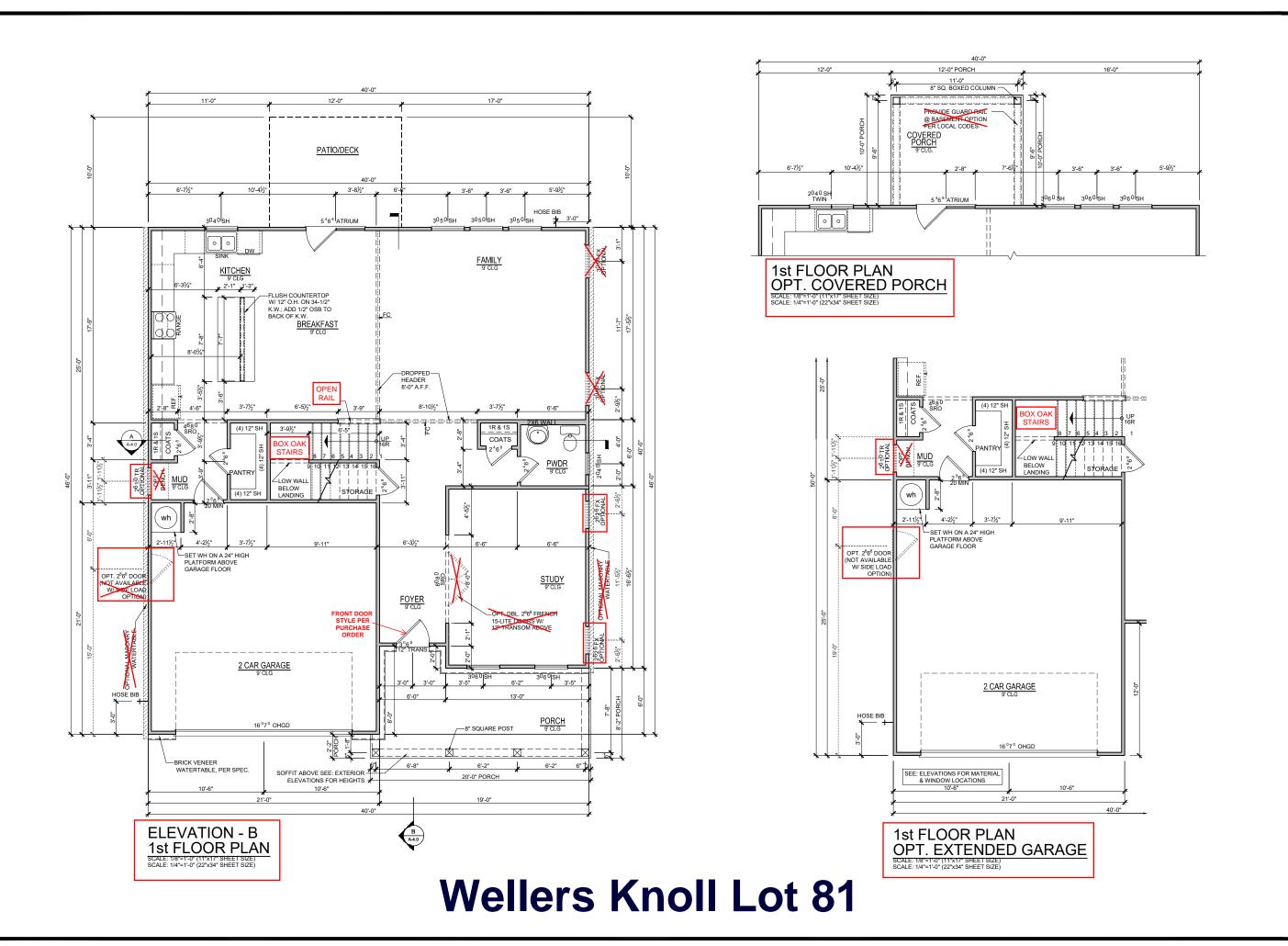




1/8"=1'-0" 12

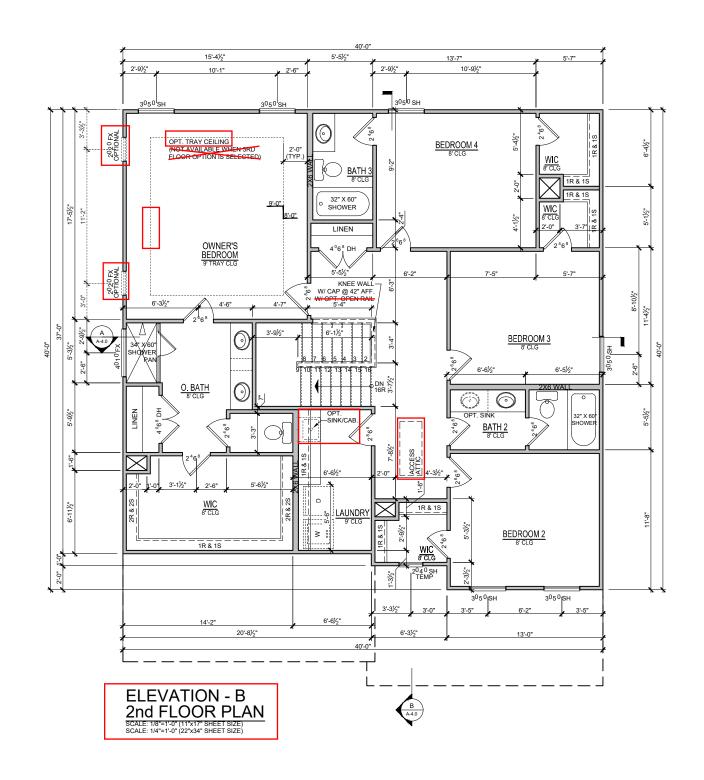
SHEET HICKORY COVER

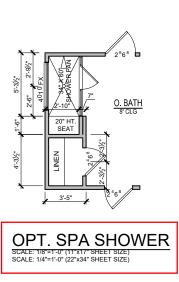
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MAINDSTREET DAVIDSON HOMES 1/8"=1'-0" PLAN HICKORY FLOOR FIRST

A-1.0B



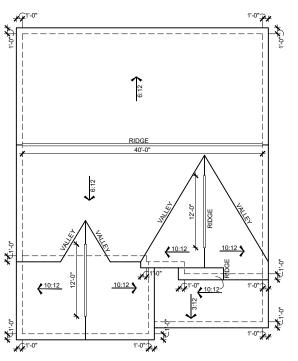






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ORY II	12-11-2024
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) FLOOR PLAN	         
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A-2.0B





**EXTENDED GARAGE** 

ELEVATION -B- ROOF PLAN
SCALE: 1/18°=1-0" (11"X17" SHEET SIZE)
SCALE: 1/8°=1-0" (22"X34" SHEET SIZE)

1525 SQ FT UNDER ROOF ATTIC 300 SQ FT / 1 SQ FT = 5.08 SQ FT VENTILATION RIDGE VENTS 18 SQ IN = (.125 SQ FT) SOFFIT VENTS 9 SQ IN = (.0625 SQ FT) BOX VENTS 50 SQ IN = (.347 SQ FT)

5.08 SQ FT x 50% 2.542 SQ FT OF RIDGE 5.08 SQ FT x 50% 2.542 SQ FT OF SOFFIT

2.542 SQ FT = 20.3 FEET OF RIDGE VENT 0.125 SQ FT

0.125 SQ FT SOFFIT VENT 2.542 SQ FT 0.0625 SQ FT = 40.7 FEET OF SOFFIT VENT

ACTUAL RIDGE VENT PROVIDED ACTUAL SOFFIT VENT PROVIDED NUMBER OF BOX VENTS NEEDED (REQ - ACTUAL x .347)

**GARAGE ROOF** 

273 SQ FT UNDER ROOF ATTIC
300 SQ FT / 1 SQ FT = 0.91 SQ FT VENTILATION

RIDGE VENTS 18 SQ IN = (.125 SQ FT) SOFFIT VENTS 9 SQ IN = (.0625 SQ FT) BOX VENTS 50 SQ IN = (.347 SQ FT)

RIDGE VENT 0.455 SQ FT 0.125 SQ FT = 3.6 FEET OF RIDGE VENT

0.125 SQ F1 SOFFIT VENT 0.455 SQ FT = 7.3 FEET OF SOFFIT VENT 0.0625 SQ FT

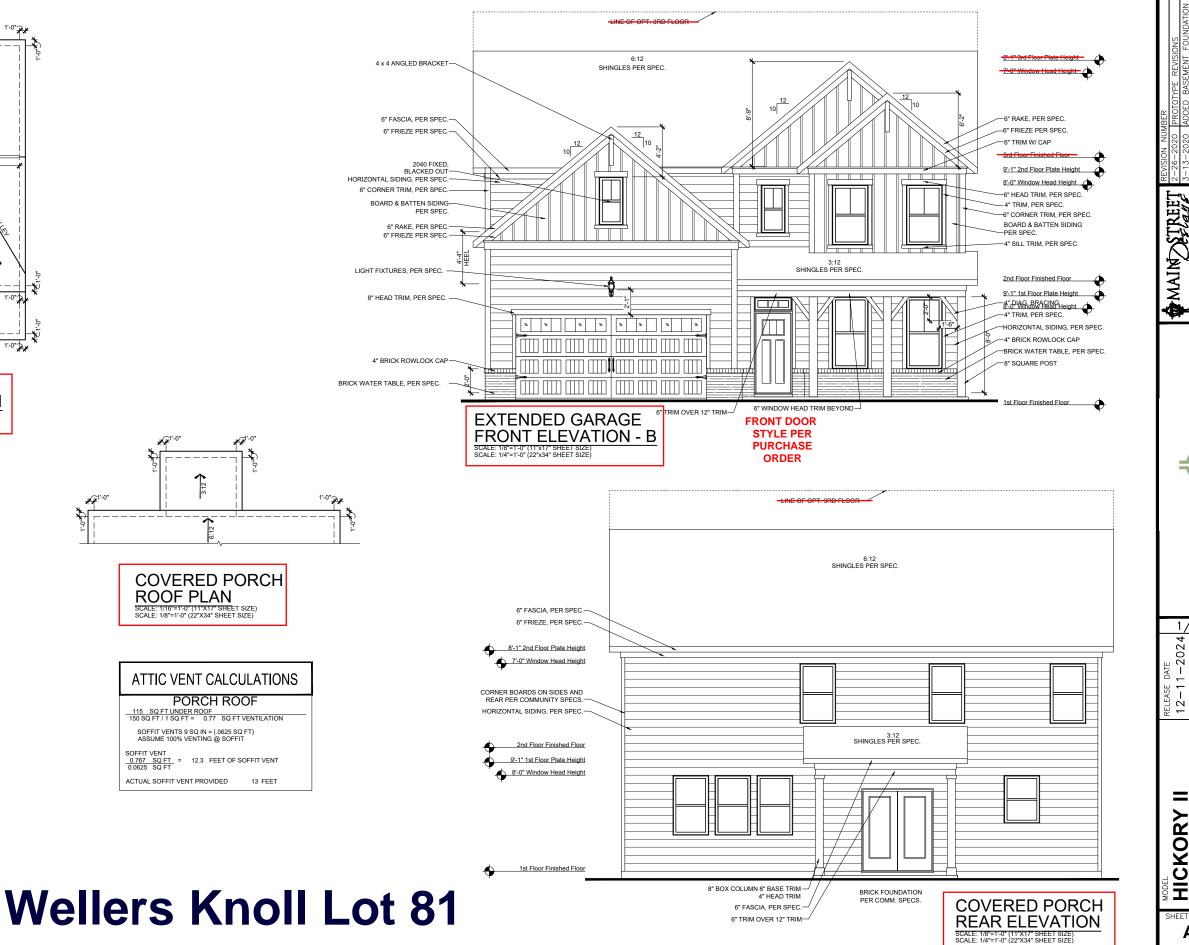
ACTUAL RIDGE VENT PROVIDED ACTUAL SOFFIT VENT PROVIDED NUMBER OF BOX VENTS NEEDED (REQ - ACTUAL x .347)

PORCH ROOF

165 SQ FT UNDER ROOF 150 SQ FT / 1 SQ FT = 1.10 SQ FT VENTILATION

SOFFIT VENTS 9 SQ IN = (.0625 SQ FT) ASSUME 100% VENTING @ SOFFIT SOFFIT VENT 1.100 SQ FT = 17.6 FEET OF SOFFIT VENT 0.0625 SQ FT

ACTUAL SOFFIT VENT PROVIDED



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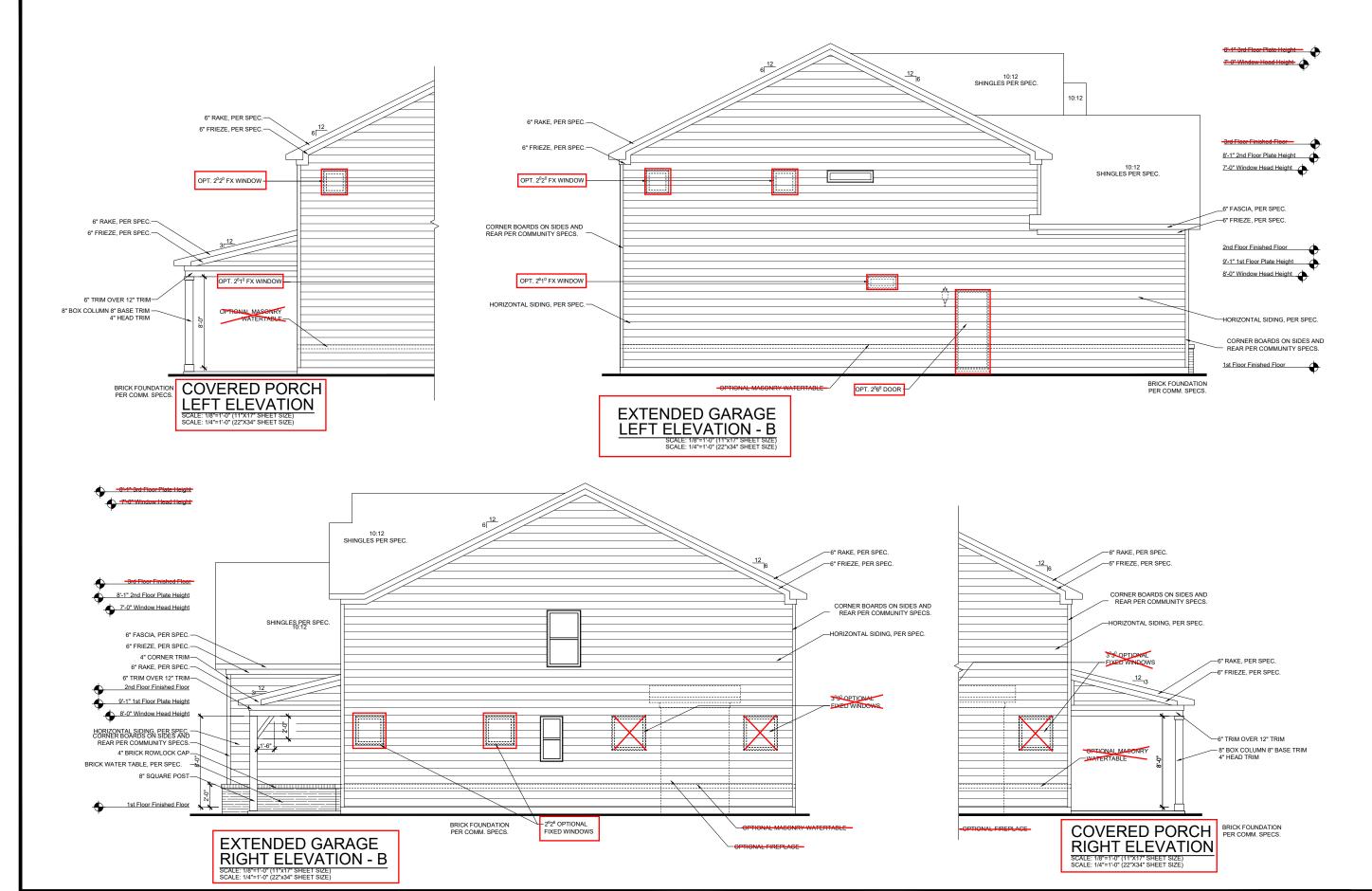
1/8"=1'-0"

PLAN

ROOF

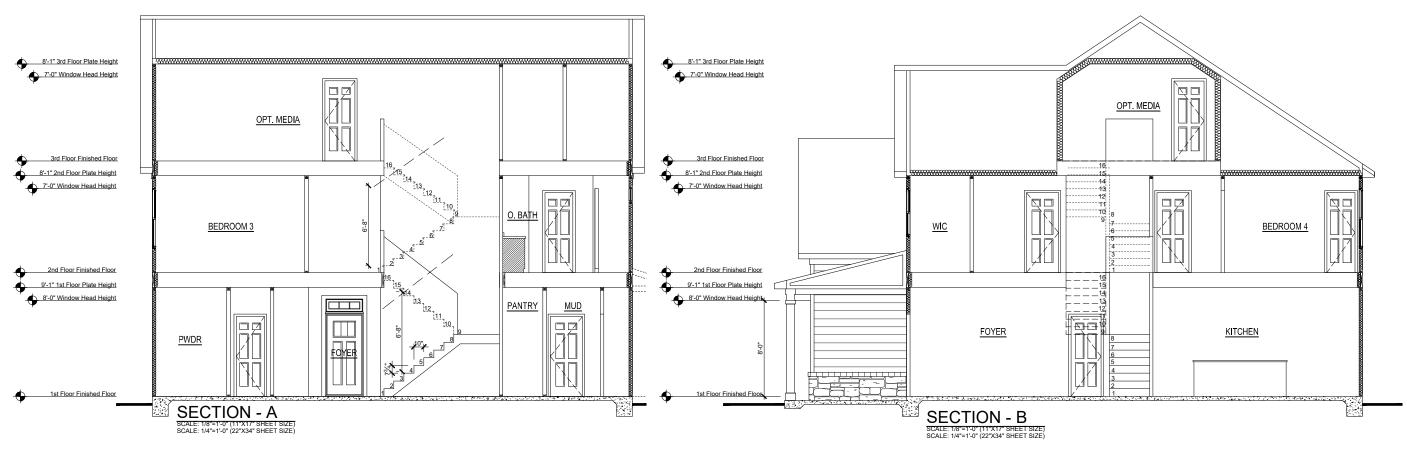
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HICKORY



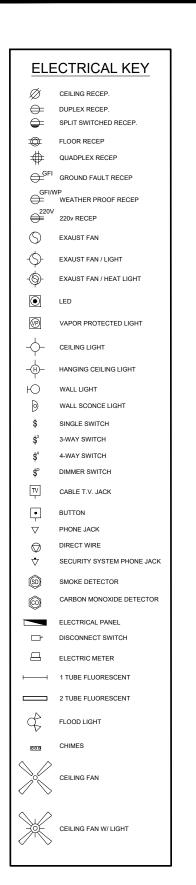
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	REVISION NUMBER
	:-26-2020 PROTOTYPE REVISIONS
Cherry	3-13-2020 ADDED BASEMENT FOUNDATION
	7/1/2020 UPDATED SHOWER OPTIONS
Main Strong Doctors of Georgia 110	0/12/2020 ELECTRICAL GARAGE LIGHT ELEV B
	0/23/2020 ADDED GAR SVR DR TO 3RD CAR
HOMES www.Mainference.com 3/	3/29/2021 REVISIONS TO WH & GARAGE DOORS
	2/11/2024 CORRECTED GARAGE EXT LIGHT LOCATION
Ö. (404) 996-5722	BSMENT, SLAB @ SCRND & COV. PORCH CHANGED TO 3'X3'
Your Comm	Apharetta, CA 30022 O. (404) 996-5722

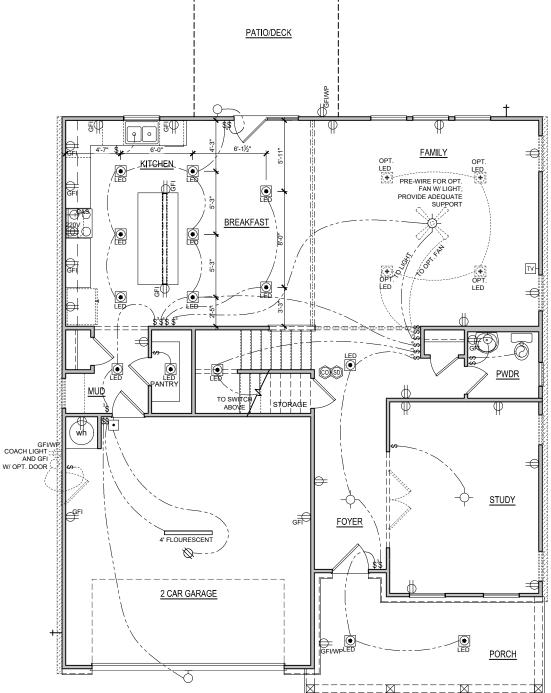
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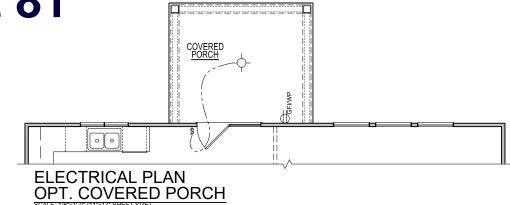
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	PROJECT NUMBER	8		2	7/1/2020 UPDATED SHOWER OPTIONS
		"=		Main Street Designs of Georgia, LLC	10/12/2020 ELECTRICAL GARAGE LIGHT ELEV B
SECTIONS		= 1	DAVIDOON	, and an	10/23/2020 ADDED GAR SVR DR TO 3RD CAR
		, -	HOMES	www.MainStreetDesignsLLC.com	3/29/2021 REVISIONS TO WH & GARAGE DOORS
PTION	OPTION NO.	-0	Your Community Builder	Alpharetta, GA 30022	12/11/2024 CORRECTED GARAGE EXT LIGHT LOCATION
		"		Ô. (404) 996-5722	BSMENT, SLAB @ SCRND & COV. PORCH CHANGED TO 3'X3'

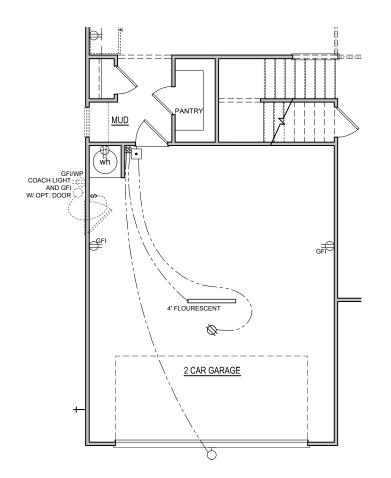
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OPT. EXTENDED GARAGE
1st FLOOR ELECTRICAL PLAN
SCALE: 108-91-91 (1975) SHEET SIZE)
SCALE: 108-91-91 (1975) SHEET SIZE)

| MAIN | TREE | 2-20-200 | PROTOTYPE REVISIONS | 2-20-2020 | PROTOTYPE REVISIONS | 3-13-2020 | ADDED BASEMENT FOUNDATION | 3-13-2020 | ADDED BASEMENT FOUNDATION | 3-13-2020 | ADDED GARAGE LIGHT ELEV B | 10/12/2020 | ELECTRICAL GARAGE LIGHT ELEV B | 10/13/2020 | ADDED GAR SVR DR TO 3RD CAR | 3/29/2021 | REVISIONS TO WH & CARAGE DOORS | 3/29/2021 | REVISIONS TO WH & CARAGE DOORS | 12/11/2024 | CORRECTED GARAGE EXT LIGHT LOCATION | 12/11/2024 | CORRECTED GARAGE EXT LIGHT LOCATION | CARAGE BOORS | 12/11/2024 | CORRECTED GARAGE EXT LIGHT LOCATION | CARAGE BOORS | 12/11/2024 | CORRECTED GARAGE EXT LIGHT LOCATION | CARAGE BOORS | COV. PORCH | CARAGE BOORS | COV. PORCH | CARAGE BOORS | COV. PORCH | CARAGE BOORS | CARAGE BOOR



RELEASE DATE
12-11-2024

12-11-2024

RELEC. PLAN
OPTION NO.
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HICKORY
DRAWING TITLE
1ST FLOOR EI

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## **ELECTRICAL KEY**

DUPLEX RECEP.

SPLIT SWITCHED RECEP.

FLOOR RECEP

QUADPLEX RECEP

GROUND FAULT RECEP

EXAUST FAN / HEAT LIGHT

VAPOR PROTECTED LIGHT

HANGING CEILING LIGHT

Ю

WALL SCONCE LIGHT

SINGLE SWITCH

DIMMER SWITCH

SECURITY SYSTEM PHONE JACK

SMOKE DETECTOR

CARBON MONOXIDE DETECTOR

DISCONNECT SWITCH

ELECTRIC METER

1 TUBE FLUORESCENT

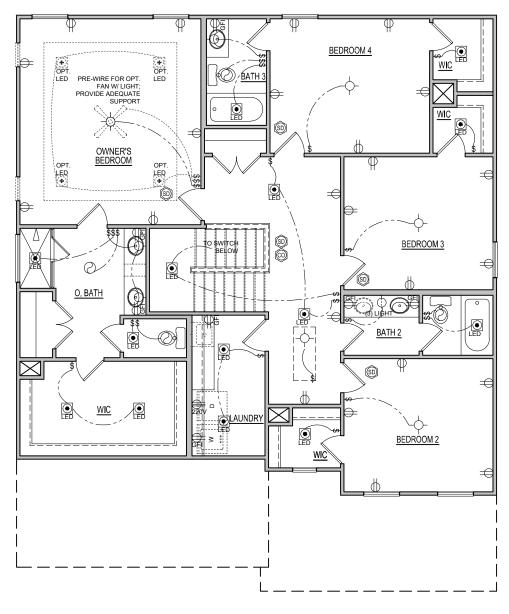
2 TUBE FLUORESCENT

FLOOD LIGHT

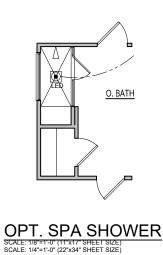




# **Wellers Knoll Lot 81**



ELEVATION - B SECOND FLOOR ELECTRICAL PLAN SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE) SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)



The state of the s	REVISION NUMBER	BER
ココンス	2-26-2020	2-26-2020 PROTOTYPE REVISIONS
Serans		3-13-2020 ADDED BASEMENT FOUNDATION
0		7/1/2020 UPDATED SHOWER OPTIONS
ms of Georgia, LLC	10/12/2020	10/12/2020 ELECTRICAL GARAGE LIGHT ELEV
, me co co co	10/23/2020	10/23/2020 ADDED GAR SVR DR TO 3RD C
tDesignsLLC.com	3/29/2021	3/29/2021 REVISIONS TO WH & GARAGE D
a, GA 30022	12/11/2024	12/11/2024 CORRECTED GARAGE EXT LIGHT
1996-5722		BSMENI SLAB @ SCRND & CC



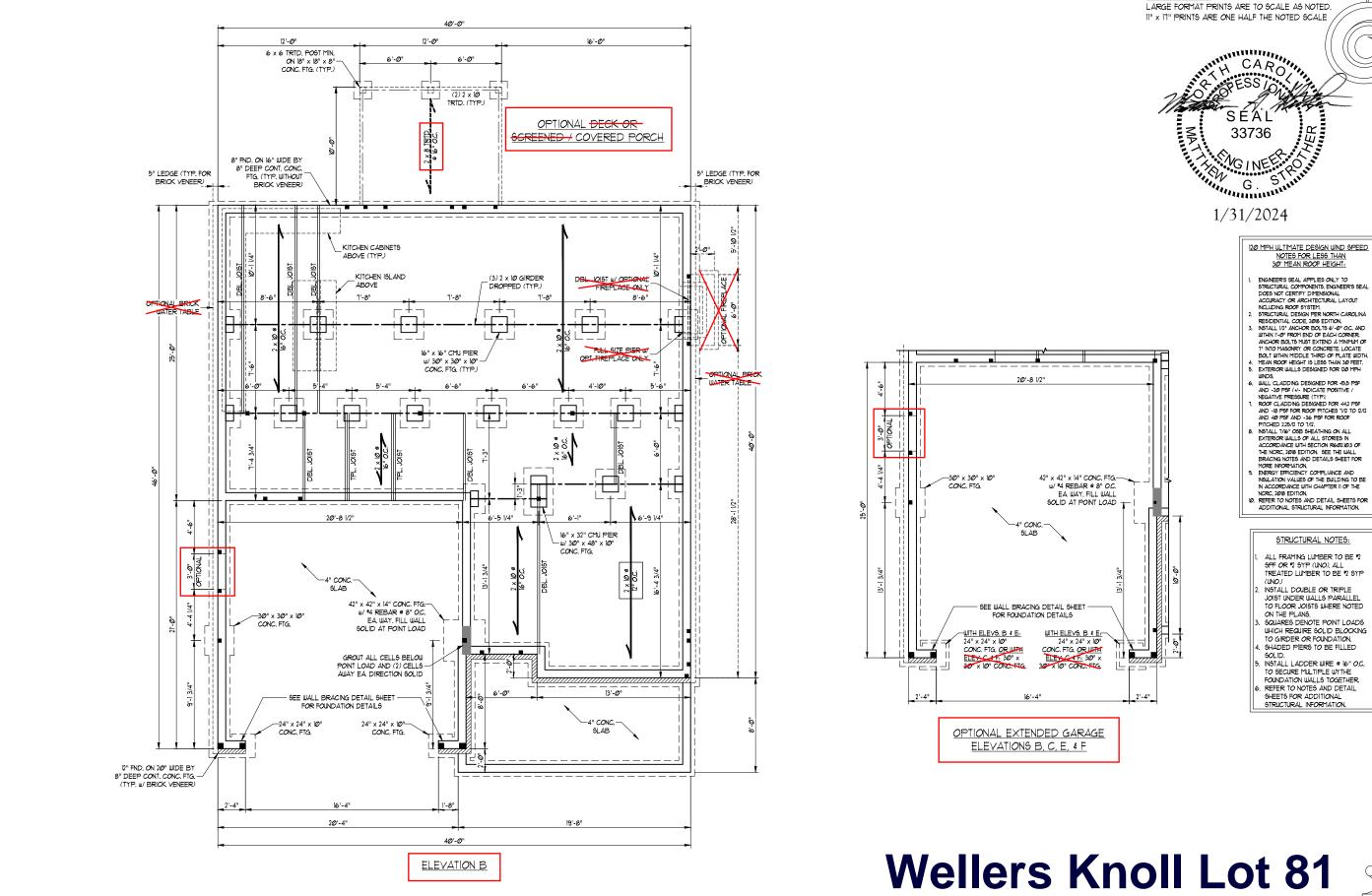
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	12-11-2024
	PROJECT NUMBER
LAN	         
	OPTION NO.

SECOND FLOOR
OPTION DESCRIPTION
ELEVATION — B HICKORY II

E-2.0B

SCALE NOTE:



ON. NC 27609 ത THOMPS INEERING,

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

- ANCHOR BOLTS MUST EXTEND A MINIMUM OF "I NTO MASONEY OR CONCRETE, LOCATE
  BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH,
  MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
  EXTERIOR WALLS DESIGNED FOR 120 MPH

- PRACING MATERIAL PROPERTY OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE
- NCRC, 2018 EDITION.

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

## STRUCTURAL NOTES:

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

  SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED PIERS TO BE FILLED
- SOLID.

  NOTALL LADDER WIRE © 16" O.C. TO SECURE MULTIPLE WYTHE FOUNDATION WALLS TOGETHER. REFER TO NOTES AND DETAIL

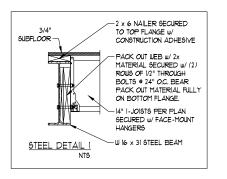
SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

OATE: JANUARY 26, 2024

S

DRAWN BY: MAIN STREET DE GINEERED BY: JAG

S-1.1k CRAWL FOUNDATION PLAN w/ OPT. 2 x 10 IOISTS



4 x 4 TRTD. POST MIN

OPTIONAL COVERED PORCH

## SPACING INDICATED ON THE PLANS MINIMUM NUMBER OF FULL HEIGHT KING STUDS

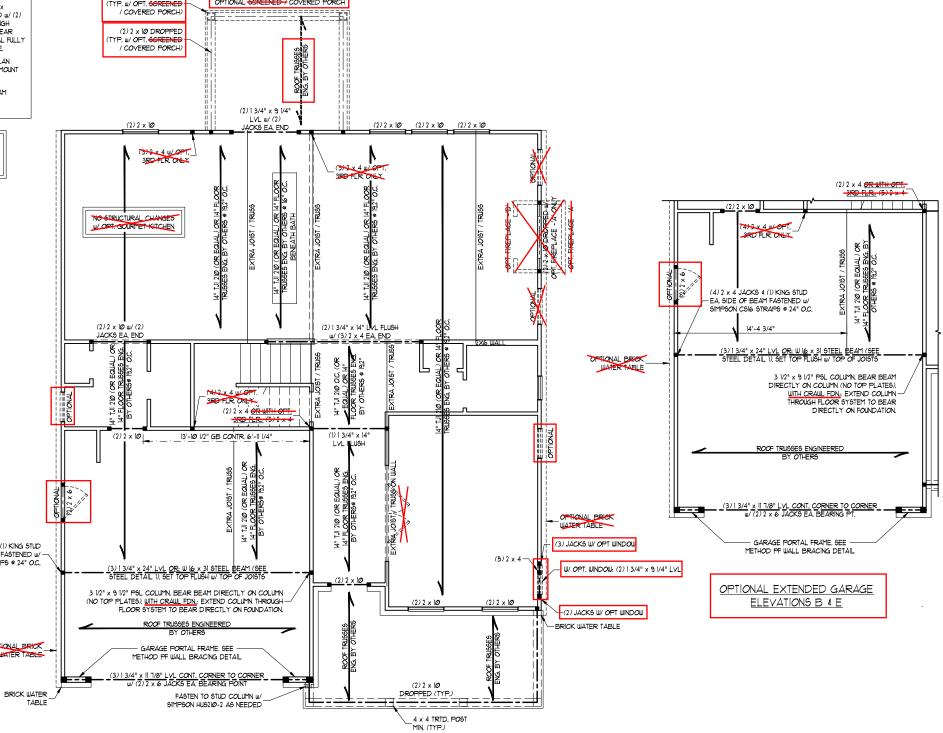
BCI 50006-18 JOISTS MAY BE USED IN LIEU OF TJI 210 JOISTS AT THE DEPTH AND

NOTE:

HEADER SPAN (FEET)	MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)
UP TO 3'	1
> 3' TO 6'	2
> 6' TO 9'	3
> 9' TO 12'	4
> 12' TO 15'	5

(4) 2 x 4 JACKS & (1) KING STUD

EA SIDE OF BEAM FASTENED III/



ELEVATION B

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

CARO" 33736 1/31/2024

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602 10.5 "WALL BRACING BY ENGINEERED DESIGN" OF THE NCRC 2018 EDITION USING BRACING MATERIALS AND METHODS LISTED IN TABLE R602.10.1 ALONG WITH ALTERNATIVE MATERIALS AND METHODS THAT COMPLY WITH ACCEPTED ENGINEERING PRACTICE, BRACED WALL DESIGN IS NOT PRESCRIPTIVE.
- SHEATH ALL EXTERIOR WALLS w/ 7/16" OSB TO PROVIDE CS-WSP WALL BRACING THAT WILL BRACE THE STRUCTURE FOR ALL LATERAL LOADS AS REQUIRED BY THE NCRC 2018 EDITION.
- CS-WSP REFERS TO "CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANELS." CONTRACTOR IS TO INSTALL 7/16" 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 BOARD ON BOTH SIDES OF WALL WHERE NOTED ON THE PLANS ATTACHED WITH 1 1/4" LONG #6 SCREWS OR 1 5/8" LONG 5d COOLER NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD.
- BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACED WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NCRC 2018 EDITION.
- SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

### STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPF 12 OR SYP 12 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO).
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO). 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. ALL SQUARES TO BE (2) STUDS
- ALL 4  $\times$  4 POSTS SHALL BE ANCHORED TO SLABS w/SIMPSONABU44 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 TOO LB CAPACITY UPLIFT CONNECTORS AT
- 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.

"TSP" INDICATES TRIPLE STUD POCKET BETWEEN WINDOW UNITS.

RAWN BY: MAIN STREET DE

S-3b

**Wellers Knoll Lot 81** 

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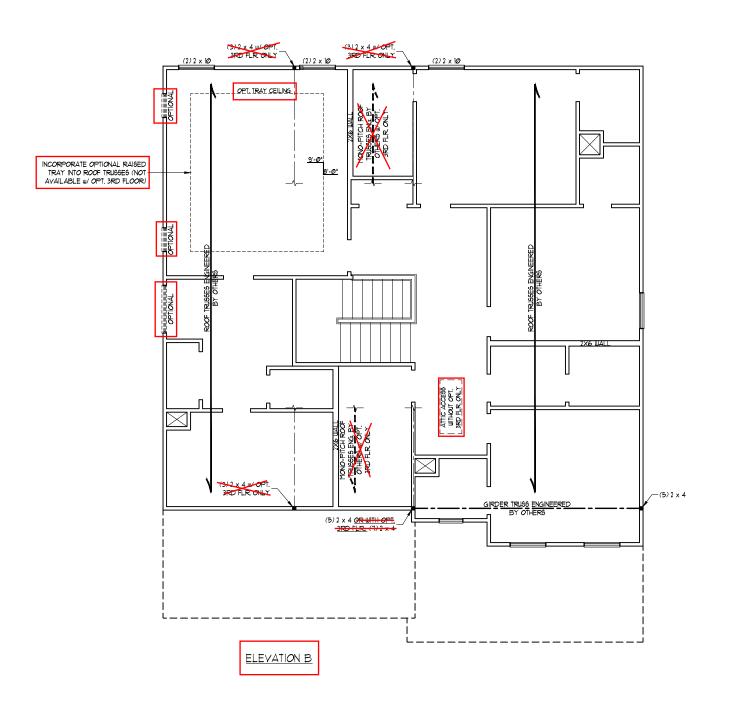
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GINEERED BY: JAG

SECOND FLOOR FRAMING PLAN



SCALE NOTE:

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



## 1/31/2024

#### BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602.10.5 "WALL BRACING BY ENGINEERED DESIGN" OF THE NCRC 2018 EDITION USING BRACING MATERIALS AND METHODS LISTED IN TABLE R602.10.1 ALONG WITH ALTERNATIVE MATERIALS AND METHODS THAT COMPLY WITH ACCEPTED
- ENGINEERING PRACTICE. BRACED WALL DESIGN IS NOT PRESCRIPTIVE.

  2. SHEATH ALL EXTERIOR WALLS w/, 7/16" OSB TO PROVIDE CS-WSP WALL

  BRACING THAT WILL BRACE THE STRUCTURE FOR ALL LATERAL LOADS AS

  REQUIRED BY THE NORC 2018 EDITION.
- S. CS-WSP REFERS TO "CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANELS." CONTRACTOR IS TO INSTALL 7/16" 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 BOARD ON BOTH SIDES OF WALL WHERE NOTED ON THE PLANS ATTACHED WITH 11/4" LONG #6 SCREWS OR 1 5/8" LONG 5d COOLER
  NAILS SPACED 7" O.C. ALONG PANEL EGES AND IN THE FIELD.

  BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH
- WIND ZONES, BRACED WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NORC 2018 EDITION.

  S. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

### STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE \*2 SPF OR \*2 SYP (UNO).
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO). WINDOW AND DOOR HEADERS TO BE SUPPORTED W/ (1) JACK STUD AND (1)
- KING STUD EA, END (UNO.), SEE TABLE R602.75 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 R602.7.5
MINIMUM NUMBER OF FULL HEIGHT KING STUDS
AT EACH END OF HEADERS IN EXTERIOR WALLS

THE ENGIT END OF	TIENDENS III EXTENIOR III
HEADER SPAN (FEET)	MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)
UP TO 3'	1
> 3' TO 6'	2
> 6' TO 9'	3
> 9' TO 12'	4
> 12' TO 15'	5

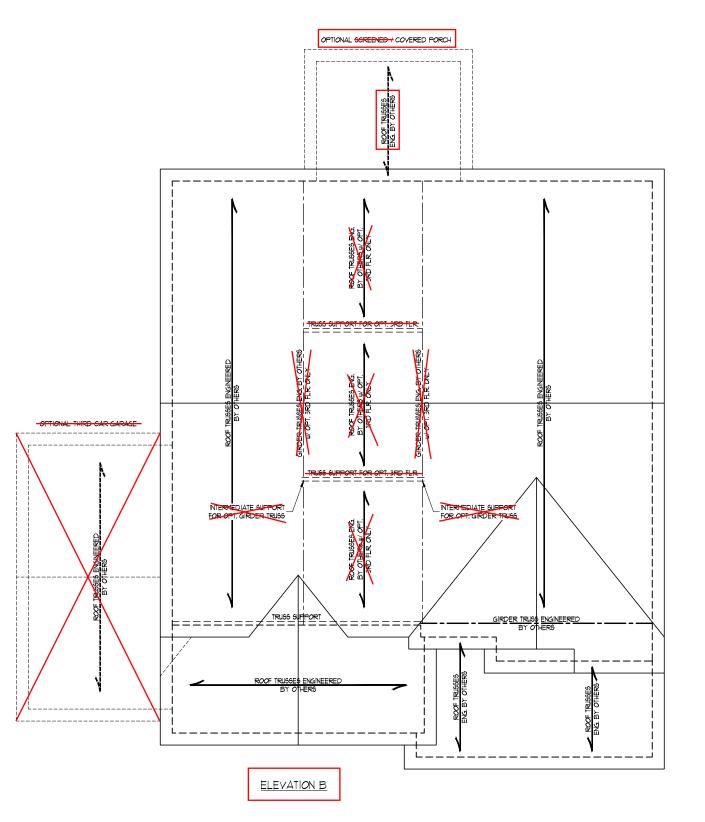
. THOMPSON
SINEERING, INC

DRAWN BY: MAIN STREET DE GINEERED BY: JAG

> S-4b ATTIC FLOOR FRAMING PLAN

**Wellers Knoll Lot 81** 

SCALE NOTE:



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

1/31/2024

## STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE \*2 SPF OR \*2 SYP (UNO). STICK FRAME OVER-FRAMED
- STICK FRAME OVER-FRAMED
  ROOF SECTIONS W 2 x 8 RIDGES,
  2 x 6 RAFTERS Is "O.C. AND
  FLAT 2 x ID VALLEYS OR USE
  VALLEY TRUSSES.

  FASTEN FLAT VALLEYS TO
  RAFTERS OR TRUSSES WITH
  SIMPSON LESS HURRICANE
  TIES THROUGH NOTCH IN ROOF
  SHEATHING. EACH RAFTER IS TO
  BE FASTENED TO THE FLAT
  VALLEY WITH A MIN. OF (6) 12d
  TOE NAILS.

  REFER TO SECTION REW2II OF THE
  2016 NORC FOR REQUIRED UP-LIFT
  RESISTANCE AT RAFTERS AND
  TRUSSES.

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

	LEGEND
XT	EXTRA TRUSS
TS	TRUSS SUPPORT
XR	EXTRA RAFTER
RS	RAFTER SUPPORT
CONT	CONTINUOUS
EA	EACH
OC	ON CENTER
SPF	SPRUCE PINE FIR
SYP	SOUTHERN YELLOW PINE
TYP	TYPICAL
LINO	LINLESS NOTED OTHERWISE

THOMPSON
SINEERING, INC

DRAWN BY: MAIN STREET DE:

S-6b ROOF FRAMING PLAN

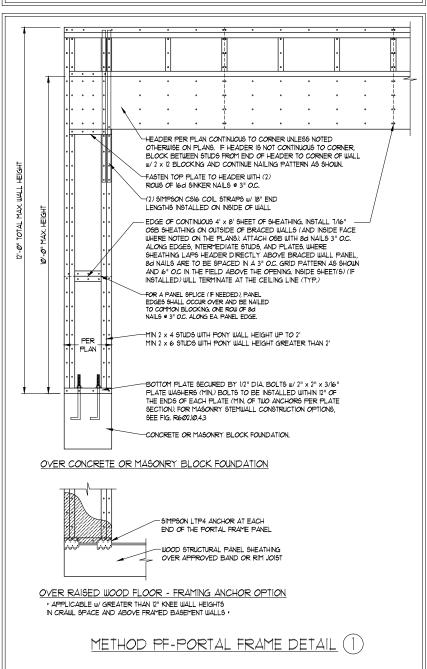
**Wellers Knoll Lot 81** 

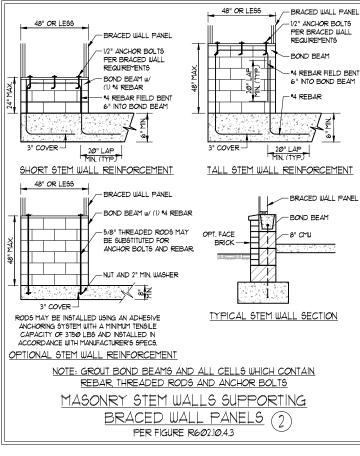
## GENERAL WALL BRACING NOTES:

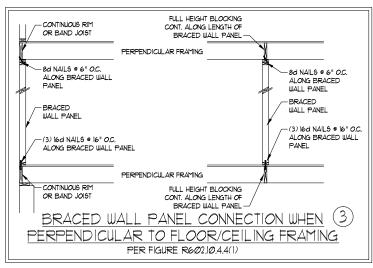
WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC).
 TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
 SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.

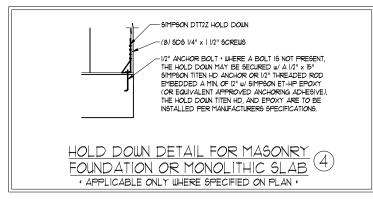
AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERED PRACTICE.

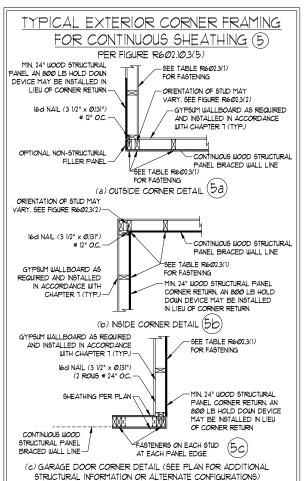
- 2. SEE THIS SHEET FOR GENERAL DETAILS, REFER TO THE 2018 NORG FOR ADDITIONAL THORMATION AS NEEDED.
  3. BRACED EXTERIOR WALLS SUPPORTING ROOF TRUISSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED FOR R602.35 (3), WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT
- 4. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SWMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS.
- 5. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.103 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 R102.35. METHOD GB TO BE FASTENED PER TABLE R602.10.1
- 1. CS-WSP REFERS TO THE "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 1/16" OSB SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLE ATTACHED W 6A COMMON NAILS OR 8A (2 1/2" LONG X 0/113" DIAMETER) NAILS SPACED 6" OC. ALONG PANEL EDGES AND B" OC. IN THE FIELD (UND.)
- 8. 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 I 1/4" SCREWS OR I 5/8" NAILS SPACED "" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UNIO.). VERITY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R102.35. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R102.35. 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 REPORT 10.3. METHOD C5-WBP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES IS TIMES ITS ACTUAL LENGTH.

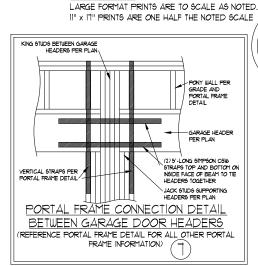




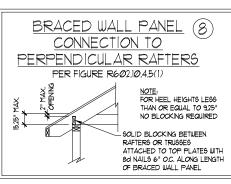


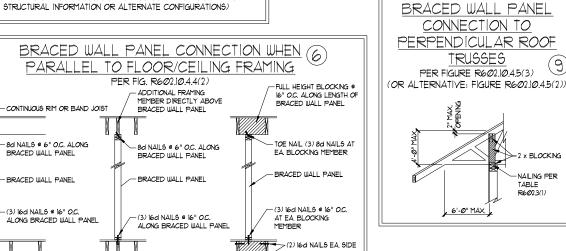






SCALE NOTE:





## **Wellers Knoll Lot 81**

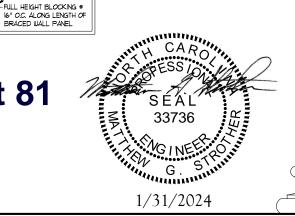
ADDITIONAL FRAMING

MEMBER DIRECTLY BELOW BRACED WALL PANEL

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NTINUOUS RIM W/ FINGER

JOISTS OR DBL. BAND JOIST



ENGINEERING, INC

HICKORY DAVIDSON HOMES

ATE: JANUARY 26, 2024

CALE: 1/4" = 1'0"

RAWN BY: MAIN STREET DESIC

D-4 WALL BRACING NOTES AND DETAILS

### 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 R301.7)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	10	L/360
DECKS	40	10	L/360
EXTERIOR BALCONIES	40	10	L/36Ø
FIRE ESCAPES	40	10	L/360
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	10	L/36Ø
PASSENGER VEHICLE GARAGE	50	10	L/360
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/360
SLEEPING ROOMS	3Ø	10	L/360
STAIRS	40	10	L/360
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
- FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE 1S TO COMPLY WITH SECTION R403,1,6 OF THE NCRC, 2018 EDITION, FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 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, 2018 EDITION,
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. APPLICABLE, 3/4" - 1" 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 NCRC, 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 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 LEGG THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEAGURED FROM THE OUTSIDE FACE OF THE WALL. GHALL NOT BE LEGG 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
- 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)

## Wellers Knoll Lot 81

### FRAMING NOTES

- ALL FRAMING LUMBER SHALL BE 12 SPF (Fb = 815 PSI, Fv = 315 PSI, E = 1600000 PSI) OR 12 SYP (Fb = 915 PSI, Fv = 115 PSI, E = 16000000 PSI) MINIMUM UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE 12 SYP MINIMUM UNLESS NOTED OTHERWISE (UNO).
- 2. LAMINATED VENEER LUMBER (LYL) 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 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E =1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN T" 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 A36 CHANNELS AND ANGLES: ASTM A36 PLATES AND BARS:

HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B

ASTM A53, GRADE B, TYPE E OR S

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 FOLLOWS (UNO):

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

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) ROUS OF 9/16" DIAMETER

- 5. 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 NCRC, 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.
- II. PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR 1-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'-Ø" 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  $\times$  10 BLOCKING INSTALLED  $\pm$ / (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 RT03.8.2.1 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
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. 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. 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

33736 1/31/2024

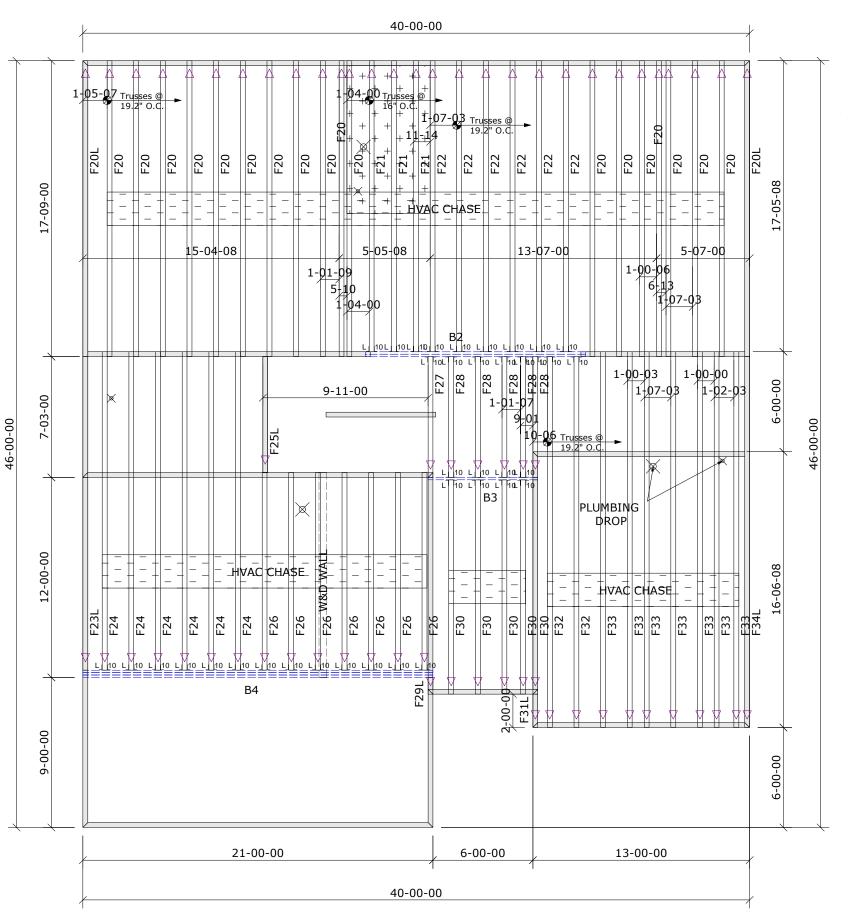
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under N.C. Statute § 89C-23



NOTE: LEFT END OF TRUSS AS SHOWN ON TRUSS DETAIL DRAWINGS ARE INDICATED BY TRIANGLE ICONS.  $\triangle$ 

Summations of limited excerpts of the Code. ANSI/TPI1-2014, and BCSI, and associated commentary, are provided within the truss sumbittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical excerpts include, among elements, critical safety information as well as specific Scope-of-Work assignments (and limitations of the same) for the Owner, Contractor, Building Designer, Truss Designer, and Truss Manufacturer. It is essential that ALL parties to the design and use of the Trusses review and become familiar with the information provided in the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to performing work on the associated project.

### Builders First Source

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

he responsibility of the Building Designer, not the Truss

- Dimensions are Feet-Inches- Sixteenths.
- Trusses are to be 24" o.c. unless noted otherwise (U.N.O.)
- Builders FirstSource
- Immediately contact Builders FirstSource if trusses are 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 p

## 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

#### Dimension Notes:

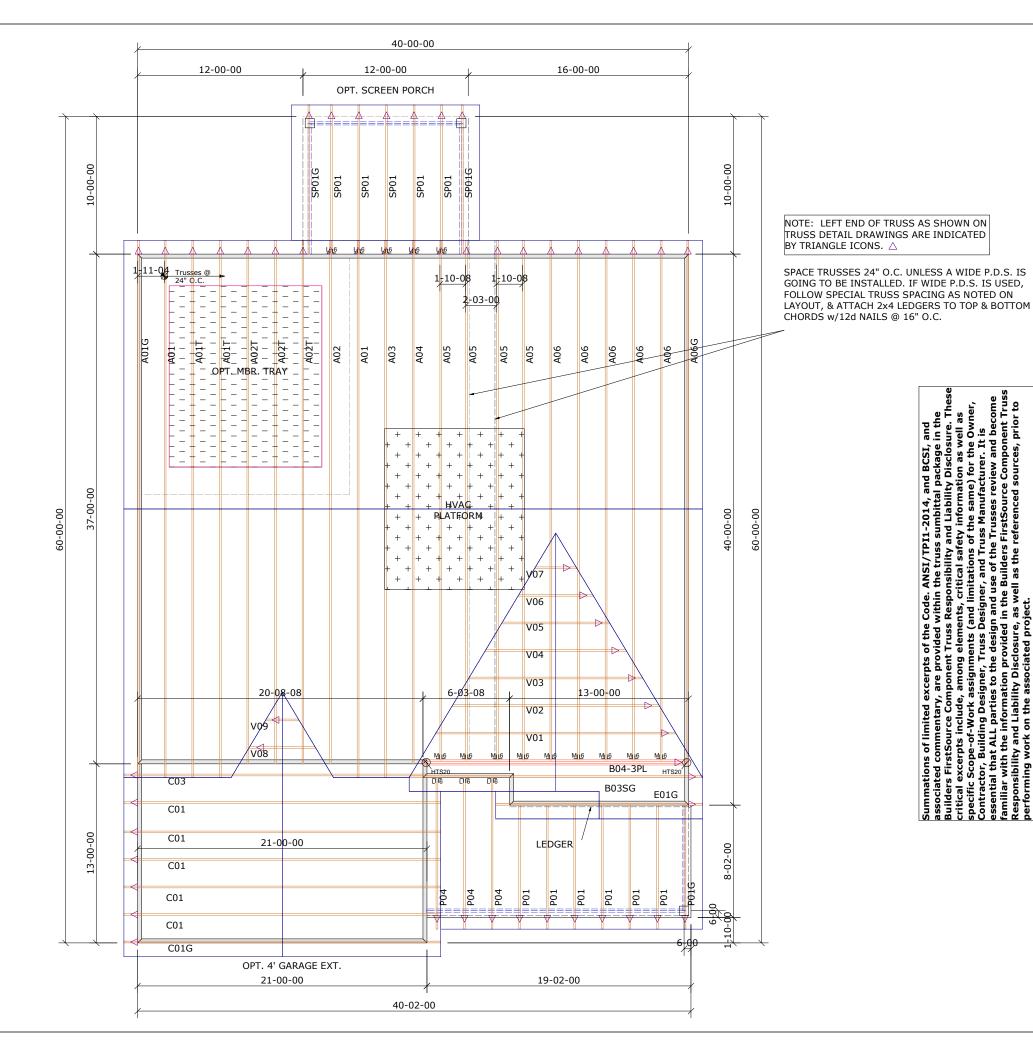
- Drawing not to scale. Do not scale dimensions

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38 LÜS410 HJ L10				<u>Special</u>	Ite	ems List		
					<b>Beam List</b> 32=(2)1-3/4"x14"x14' LVL			
				B2=(				
				B3=(	1)1-3/4"x1	4"x8	' LVL	
			B4=(	3)1-3/4"x2	24"x2	2' LVL		
DAVID			SON	I HOMES	5			
HICKORY				Elev:		A/B/D/E		
			ERS	KNOLL				
WAK	KE CO. NO			2	Lot:		81	
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				<u>Loading:</u>				
					T.C.L.L	.	40.0 lb/ft2	
Designed	<u> By:</u>		1PH		T.C.D.I		10.0 lb/ft2	
Layout:		2FL			B.C.L.L		0.0 lb/ft2	
/O Date	-	11/8/22			B.C.D.L		5.0 lb/ft2	
Revision History					Wind:			
Rev1:	ev1: xx/xx/xx			M.P.H. 115 mp		115 mph		
Rev2:		xx/xx			Expos		Category	
Rev3:		xx/xx					В	
Pick Tic			Χ		<u>Job No</u>		X	
Sales I	lo:		X		Acct N	o:		
Hatch Legend								

Volume Ceiling

DAVIDSON

**Wellers Knoll Lot 81** 





### **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

#### 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

### 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

### Dimension Notes:

Summations of limited excerpts of the Code. ANSI/TPI1-2014, and BCSI, and associated commentary, are provided within the truss sumbittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. The critical excerpts include, among elements, critical safety information as well as specific Scope-of-Work assignments (and limitations of the same) for the Owner, Contractor, Building Designer, Truss Designer, and Truss Manufacturer. It is essential that ALL parties to the design and use of the Trusses review and becomfamiliar with the information provided in the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to

- Drawing not to scale. Do not scale dimensions

Hanger List
DAVIDSON HOMES HICKORY Elev: B WELLERS KNOLL
Misc Material  DAVIDSON HOMES HICKORY Elev: B  WELLERS KNOLL
Misc Material  DAVIDSON HOMES  HICKORY Elev: B  WELLERS KNOLL
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HICKORY Elev: B WELLERS KNOLL
WELLERS KNOLL
WAKE CO. NC. Lot: 81
Appwright #
MBR. TRAY/SCREEN 4460755
PORCH/4' GARAGE Code: IRC 2015
EXT./GARAGE LEFT Loading:
T.C.L.L. 20.0 lb/ft2
Designed By: MPH T.C.D.L 10.0 lb/ft2
Layout: BTSPGEL B.C.L.L. 0.0 lb/ft2
L/O Date: 10/22/19 B.C.D.L. 10.0 lb/ft2
Revision History Wind:
Rev1: xx/xx/xx M.P.H. 115 mph
Rev2: xx/xx/xx Exposure Category

DAVIDSON

Rev3: XX/XX/XX

Hatch Legend

Volume Ceiling