### **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 MATERIALS.

- ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD. ALL STUDS ARE 3 1/2 LINESS 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 R502.8 R602. R802.7.

### 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-SHIELD 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 MANAGER.
- 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 SE AND A CLEAR OPENING OF NOT LESS THAN 20" WIDE X 24" HIGH AND SHALL NOT BE MORE THAN 44" ABOVE THE FLOOR.

### INSULATION:

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, VERIFY

FLOOR OVER GARAGE

R-19 BATTS MINIMUM. VERIFY

ATTIC KNEEWALL:

R-19 BATTS MINIMUM. VERIFY

### **BUILDING CODE ANALYSIS** 2018 NCRC/ 2018 IBC

APPLICABLE CODES 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.

GARAGE / HOUSE CEILING/ HOUSE ASSEMBLY:

1/3" GYPSUM BD. WALL & 5/4"TYPE "X" GYPSUM BD. CEILING W/ 20 MINUTE GARAGE/HOUSE DOOR

LIVE LOAD 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
- FLAME SPREAD AND SMOKE DENSITY NOTES:

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.

## Wellers Knoll Lot 37

# WILLOW

### **ELEVATION - B**



**INCLUDED OPTIONS:** 

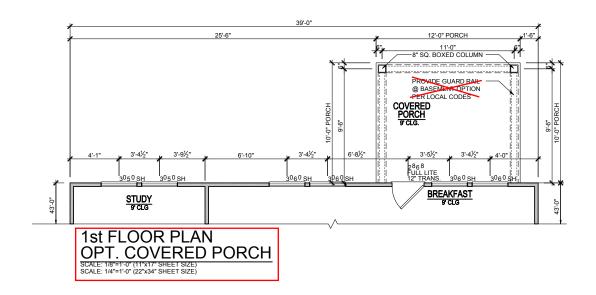
1st FLOOR **COVERED PORCH GOURMET KITCHEN BOX OAK STAIRS OPEN RAIL** 

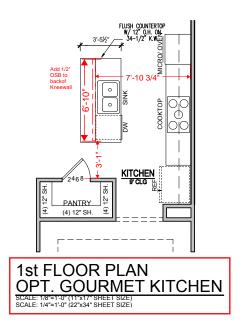
2nd FLOOR **OWNERS SPA SHOWER** LAUNDRY SINK (WALL MOUNT)

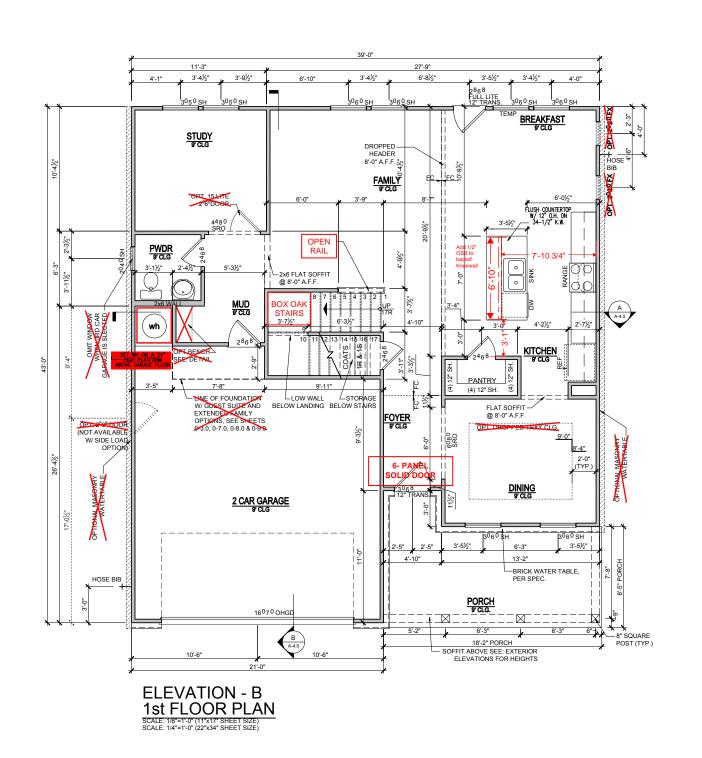
BASE HOUSE SQUARE FOOTAGE CALCULATIONS							TOTAL UNDER	ĭ
ELEVATIONS	1st FLOOR	2nd FLOOR	TOTAL FIN.	FRONT F	ORCH	GARAGE	ROOF	SH
ELEV. B	1,053 s.f.	1,287 s.f.	2,340 s.f.	,	159 s.f.	466 s.f.	2,965 s.f.	
OPTIO	NS SQUARE F	OOTAGE CAL	CULATIONS					1
OPTIONS:			1st	FLOOR				┢
COVERED PORC	Н			+120 s.f.				ı

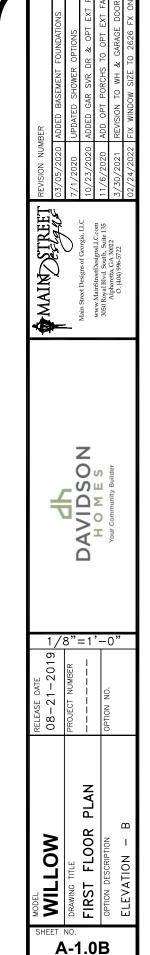
MAIN STREET Z 00 SI ΩΣ  $1/8" = \overline{1' - 0'}$ 2019 -21-08 SHEET WILLOW COVER

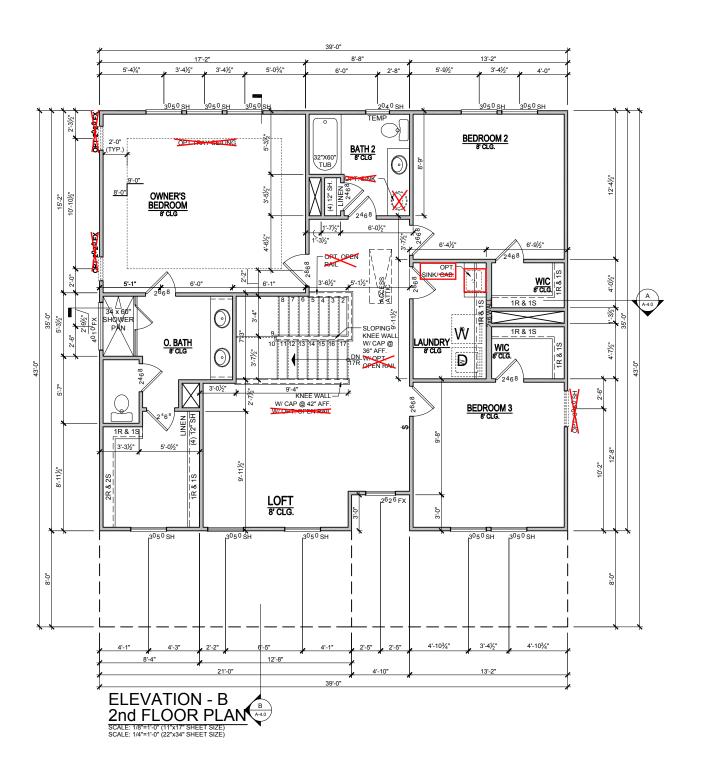
**CS-1.0** 













STREET	STREET REVISION NUMBER	BER
Estalle	03/05/2020	03/05/2020 ADDED BASEMENT FOUNDATIONS
5	7/1/2020	UPDATED SHOWER OPTIONS
r Georgia, LLC	10/23/2020	10/23/2020 ADDED GAR SVR DR & OPT EXT FAMILY
ignsLLC.com tth, Suite 135	11/6/2020	11/6/2020 ADD OPT PORCHS TO OPT EXT FAMILY
A 30022 5722	3/30/2021	REVISION TO WH & GARAGE DOORS
	02/24/2022	02/24/2022 FIX WINDOW SIZE TO 2626 FX ON D





MO-	08-21-2019	1/
TLE	PROJECT NUMBER	8"
D FLOOR PLAN		=1'-
SCRIPTION	OPTION NO.	-0
ON - B		"

A-2.0B

# MAIN ROOF 10:12 AREA 2 PORCH **WILLOW ELEVATION -B- ROOF PLAN**

# Wellers Knoll Lot 37

Z 00

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1/8"=1'-0"

PLAN

ROOF

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A-3.0B

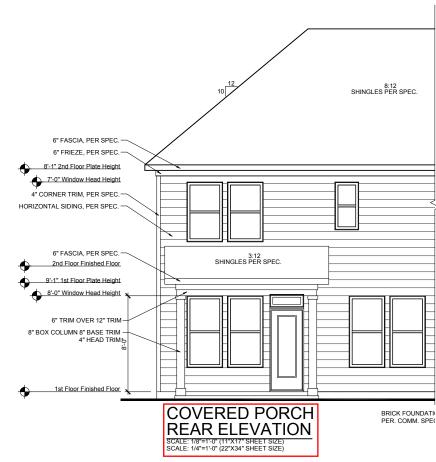
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### ATTIC VENT CALCULATIONS

GENERAL CONTRACTOR SHALL VERIFY THE NET FREE
VENTILATION OF THE VENT PRODUCT SELECTED BY OWNER.
VERIFY WITH MANUFACTURER OF HIGH AND LOW VENTS
TO BE USED FOR MINIMUM CALCULATED VENTS REQUIRED.
THE REQUIRED VENTILATION SHALL BE MAINTAINED.
PROVIDE INSULATION STOP SUCH THAT INSULATION
DOES NOT OBSTRUCT FREE AIR MOVEMENT AS REQUIRED
BY THE BUILDING OFFICIAL.

**COVERED PORCH** 

**ROOF PLAN** SCALE: 1/16"=1'-0" (11"X17" SHEET SIZE SCALE: 1/8"=1'-0" (22"X34" SHEET SIZE)

ALL OVERLAP FRAMED ROOF AREAS SHALL HAVE

OPENINGS BETWEEN THE ADJACENT ATTICS IN THE ROOF OPENINGS BELIVEEN THE ADJACENT AT ITS IN THE ROUS SHEATHING (AS ALLOWED BY THE STRUCTURAL ENGINEER) TO ALLOW PASSAGE AND ATTIC VENTILATION BETWEEN THE TWO OR ISOLATED ATTIC SPACES SHALL BE VENTED INDEPENDENTLY TO CBC REQUIREMENTS.

- PER DEVELOPER, AT ALL CANTILEVERED FLOORS, CANTILEVERED ARCHITECTURAL POP-OUTS, AND ANY DOUBLE FRAMING PROJECTIONS THAT ARE SEPARATED FROM THE VENTING CALCULATIONS SHOWN ABOVE, PROVIDE A CONTINUOUS 2" CORROSION RESISTANT SOFFIT VENT AT UNDERSIDE OF FRAMED ELEMENT.

ALL ROOF DRAINAGE SHALL BE PIPED TO STREET OR APPROVED DRAINAGE FACILITY.

DASHED LINES INDICATE WALL BELOW.

LOCATE GUTTER AND DOWNSPOUTS PER BUILDER.

TRUSS MANUFACTURER SHALL SUBMIT STRUCTURAL CALCS AND SHOP DRAWINGS TO THE BUILDER'S GENERAL CONTRACTOR AND BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATIONS

ALL PLUMBING VENTS SHALL BE COMBINED INTO A MINIMUM AMOUNT OF ROOF PENETRATIONS. ALL ROOF PENETRATIONS SHALL OCCUR TO THE REAR OF THE MAIN RIDGE

1350 SQ FT UNDER ROOF ATTIC
300 SQ FT / 1 SQ FT = 4.50 SQ FT VENTILATION

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

RIDGE VENT 2.250 SQ FT 0.125 SQ FT

2.250 SQ FT = 36.0 FEET OF SOFFIT VENT

ACTUAL RIDGE VENT PROVIDED ACTUAL SOFFIT VENT PROVIDED

168 SQ FT UNDER ROOF 150 SQ FT / 1 SQ FT = 1.12 SQ FT VENTILATION

1.120 SQ FT = 17.9 FEET OF SOFFIT VENT

159 SQ FT UNDER ROOF 150 SQ FT / 1 SQ FT = 1.06 SQ FT VENTILATION

SOFFIT VENTS 9 SQ IN = (.0625 SQ FT) ASSUME 100% VENTING @ SOFFIT

1.060 SQ FT = 17.0 FEET OF SOFFIT VENT

ACTUAL SOFFIT VENT PROVIDED

### MAIN ROOF AREA 1

RIDGE VENTS 18 SQ IN = (.125 SQ FT)

= 18.0 FEET OF RIDGE VENT

NUMBER OF BOX VENTS NEEDED (REQ - ACTUAL x .347) -15.3 COUNT (NEGATIVE = 0)

### AREA 2

ACTUAL SOFFIT VENT PROVIDED 22 FEET

### PORCH ROOF **COVERED PORCH ROOF**

115 SQ FT UNDER ROOF 150 SQ FT / 1 SQ FT = 0.77 SQ FT VENTILATION SOFFIT VENTS 9 SQ IN = (.0625 SQ FT) ASSUME 100% VENTING @ SOFFIT

ATTIC VENT CALCULATIONS

MAIN ROOF

1518 SQ FT UNDER ROOF ATTIC 300 SQ FT / 1 SQ FT = 5.06 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)

5.06 SQ FT x 50% 2.530 SQ FT OF RIDGE 5.06 SQ FT x 50% 2.530 SQ FT OF SOFFIT

2.530 SQ FT = 20.2 FEET OF RIDGE VENT

2.530 SQ FT = 40.5 FEET OF SOFFIT VENT

140 FEET -6.9 COUNT (NEGATIVE = 0)

ACTUAL RIDGE VENT PROVIDED

NUMBER OF BOX VENTS NEEDED (REQ - ACTUAL x .347)

0.767 SQ FT = 12.3 FEET OF SOFFIT VENT

ACTUAL SOFFIT VENT PROVIDED

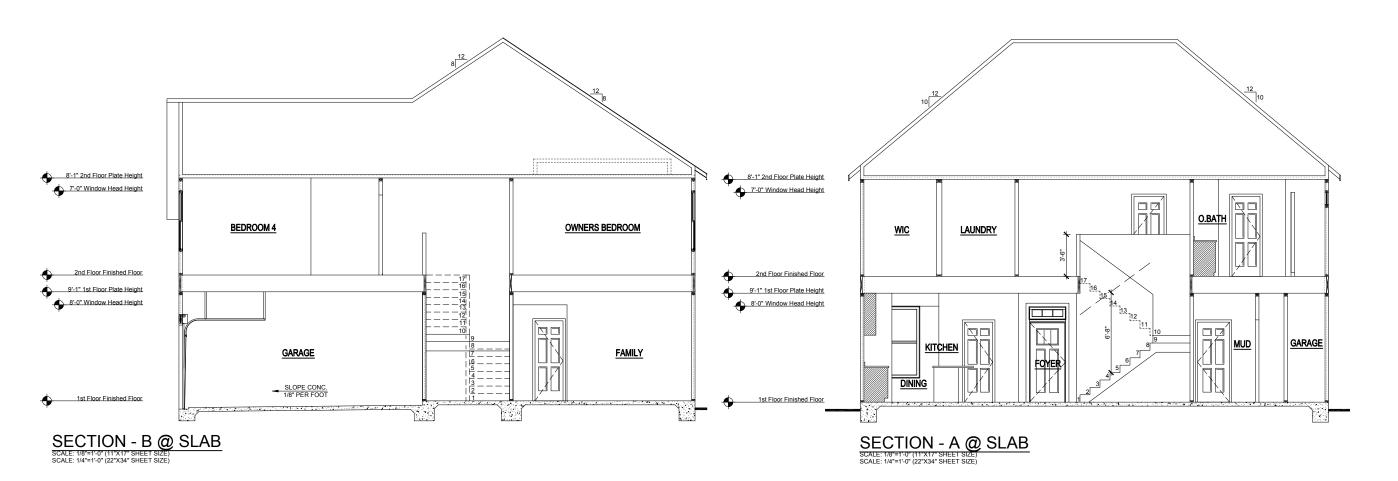
### 6" GABLE TRIM -6" RAKE PER SPEC 8'-1" 2nd Floor Plate Height 7'-0" Window Head Height -4" TRIM. PER SPEC. -6" CORNER TRIM, PER SPEC. BOARD & BATTEN SIDING -4" SILL TRIM, PER SPEC. - 6" WINDOW HEAD TRIM BEYOND 3:12 2nd Floor Finished Floor SHINGLES PER SPEC. 9'-1" 1st Floor Plate Height 6" HEAD TRIM. PER SPEC. 8'-0" Window Head Height LIGHT FIXTURES PER SPEC -6" FASCIA, PER SPEC. 4" TRIM PER SPEC -6" TRIM OVER 12" TRIM 6" CORNER TRIM, PER SPEC. -4" DIAG. BRACING 4" TRIM. PER SPEC HORIZONTAL SIDING, PER SPEC -HORIZONTAL SIDING, PER SPEC. 4" BRICK ROWLOCK CAP -4" BRICK ROWLOCK CAP BRICK WATER TABLE, PER SPEC BRICK WATER TABLE, PER SPEC. -8" SQUARE POST 1st Floor Finished Floor GLASS & HARDWARE PER COMM. SPECS **WILLOW** 6- PANFI FRONT ELEVATION - 'B' **SOLID DOOR**

SCALE: 1/8"=1'-0" (11"X17" SHEET SIZE) SCALE: 1/4"=1'-0" (22"X34" SHEET SIZE)

SCALE: 1/8"=1"-0" (11"X17" SHEET SIZE) SCALE: 1/4"=1'-0" (22"X34" SHEET SIZE)



١	WODEL	RELEASE DATE	41VW	T-CTD EET	REVISION NUMBER
	<b>≥</b>	1 08-21-2019 1			
Α				Server Con	Corrections   03/05/2020   ADDED BASEMENT FOUNDATIONS
-3	. DRAWING TITLE	PROJECT NUMBER		; ; ;	7/1/2020 UPDATED SHOWER OPTIONS
.1	SIDE ELEVATIONS		Z	Main Street Designs of Georgia, LLC	10/23/2020 ADDED GAR SVR DR & OPT EXT FAMILY
В	OPTION DESCRIPTION	OPTION NO.		www.MainStreetDesignsLLC.com 3050 Royal Blvd. South, Suite 135	11/6/2020 ADD OPT PORCHS TO OPT EXT FAMILY
			Your Community Builder Alphare O.(4)	Alpharetta, GA 30022 O. (404) 996-5722	3/30/2021 REVISION TO WH & GARAGE DOORS
	ELEVATION - B				02/24/2022 FIX WINDOW SIZE TO 2626 FX ON D



MAINDSTREET DAVIDSON HOMES 1/8"=1'-0" RELEASE DATE 08-21-2019 -SECTIONS WILLOW BUILDING

A-4.0B

MAINDSTREET

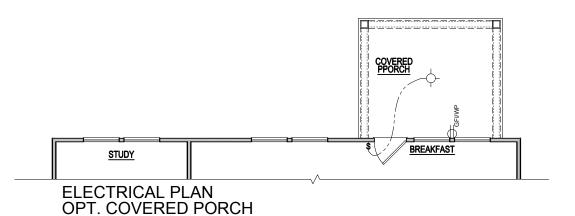
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AVIDSON HOMES

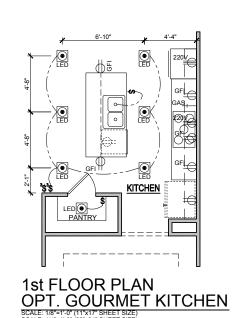
1/8"=1'-0"

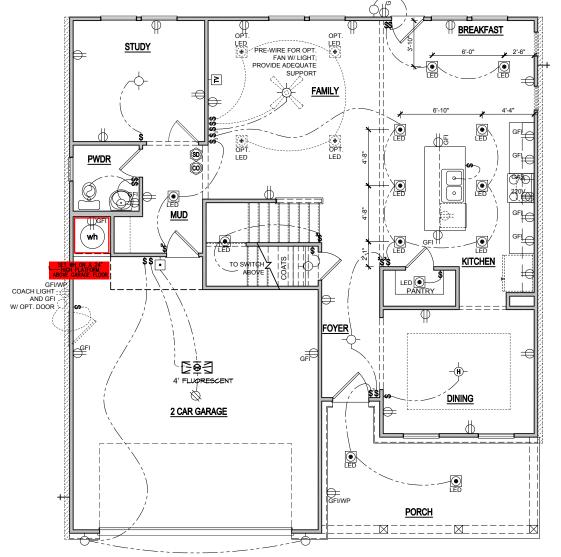
1ST

E-1.0B



SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE) SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)





**ELEVATION - B** FIRST FLOOR ELECTRICAL PLAN

**ELECTRICAL KEY** GROUND FAULT RECEP WEATHER PROOF RECEP EXAUST FAN / LIGHT EXAUST FAN / HEAT LIGHT VAPOR PROTECTED LIGHT WALL SCONCE LIGHT SECURITY SYSTEM PHONE JACK SMOKE DETECTOR CARBON MONOXIDE DETECTOR 1 TUBE FLUORESCENT 2 TUBE FLUORESCENT

CEILING RECEP

DUPLEX RECEP.

EXAUST FAN

LED

CEILING LIGHT

WALL LIGHT

SINGLE SWITCH

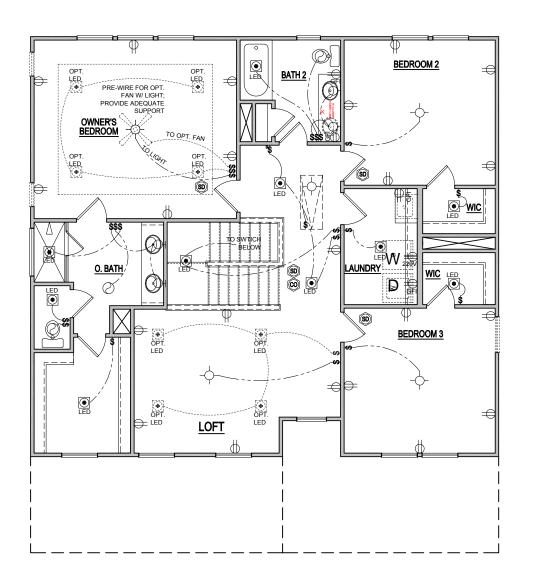
PHONE JACK

FLOOD LIGHT

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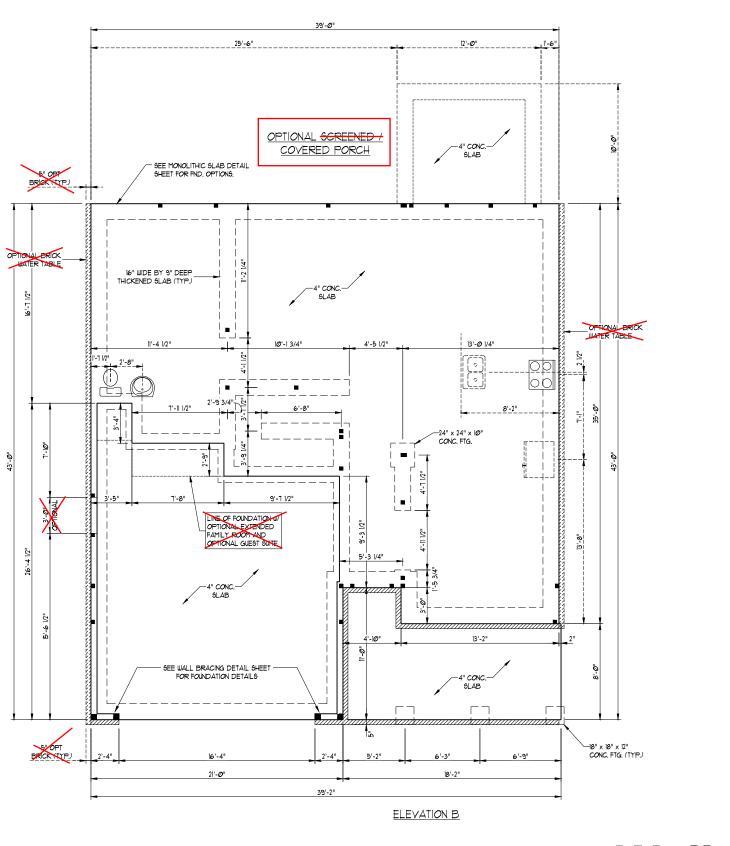
RELEASE DATE 08-21-2019 WILLOW





ELEVATION - B SECOND FLOOR ELECTRICAL PLAN SCALE: 1/8\*=1\*-0\* (11\*x17\* SHEET SIZE)

MAINSTREET REVISION NUMBER	CENTRE 03/05/2020 ADDED BASEMENT	7/1/2020 UPDATED SHOWER	Main Street Designs of Georgia, LLC 10/23/2020 ADDED GAR SVR D	3050 Royal Blvd. South, Suite 135 11/6/2020 ADD OPT PORCHS	Alpharetta, GA 30022 O. (404) 996-5722 3/30/2021 REVISION TO WH &	02/24/2022 FIX WINDOW SIZE 1
<b>∳</b> MAINT	7		Main Street Designs	www.MainStreett 3050 Royal Blvd. S	Alpharetta, ( O. (404) 99	
:	1		DAVIDSON	HOMES	Your Community Builder	
TE 1	Ó	MBER	= 1     	, <u> </u>	ວ"	
RELEASE DATE	- 2	PROJECT NUMBER		OPTION NO.		
MODEL OW	WILLOW	DRAWING TITLE	SECOND FLOOR PLAN	OPTION DESCRIPTION		ELEVAIION — B
SHEE	E	NO. <b>-2</b>	2.0	В		



SCALE NOTE: LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE 1/3/2023

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

- I. ENGINEER'S SEAL APPLIES ONLY TO
  STRUCTURAL COMPONENTS. ENGINEER'S SEAL
  DOES NOT CERTIFY DIMENSIONAL
  ACCURACY OR ARCHITECTURAL LAYOUT
  INCLIDING ROOF SYSTEM
  STRUCTURAL DESIGN FER NORTH CAROLINA
  RESIDENTIAL CODE, 2008 EDITION.
  INSTALL IN'S WACKOR BOLTS 6- 40° OC. AND
  WITHIN 1-0° FROM END OF EACH CORNER
  ANCHOR BOLTS ON SIGN EXPENSION ANNIHAM
  OF 1° INTO MASONEY OR CONCRETE LOCATE
  BOLT WITHIN MIDDLE THIRD OF PLATE WITHIA
  MEAN ROOF HEIGHT IS LESS THAN 30° FEET.
  5. EXTERNOR WALLS DESIGNED FOR 120° PHYWINDS.

- 4. TICAN ROOF-HEAD IS LESS HAN 36 FEEL.

  EXTERIOR WALLS DESIGNED FOR 109 MPH

  WALL CLADDING DESIGNED FOR 155 PSF
  AND -20 PSF (4\* NDICATE POSITIVE /

  REGATIVE PRESSURE (TIVE)

  1. ROOF CLADDING DESIGNED FOR 425 PSF
  AND -80 PSF OR ROOF DIFLICHES 7/12 TO 17/2
  AND 40 PSF AND -36 PSF FOR ROOF
  PITCHED 25/7/10 TO 17/2

  8. NOTALL TIME 0505 SHEATHING ON ALL

  EXTERIOR WALLS OF ALL STORIES N

  ACCORDANCE WITH SECTION REA/2/03 OF
  THE NORG, 2008 EDITION, SEE THE WALL

  BRACING NOTES AND DETAILS SHEET FOR
  MORE NEFORMATION

  9. ENERGY TERFICIENCY COMPLIANCE AND

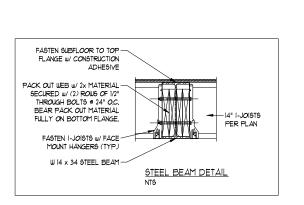
  NULLATOR VALUES OF THE BUILDING TO BE
  N ACCORDANCE WITH CHAPTER II OF THE

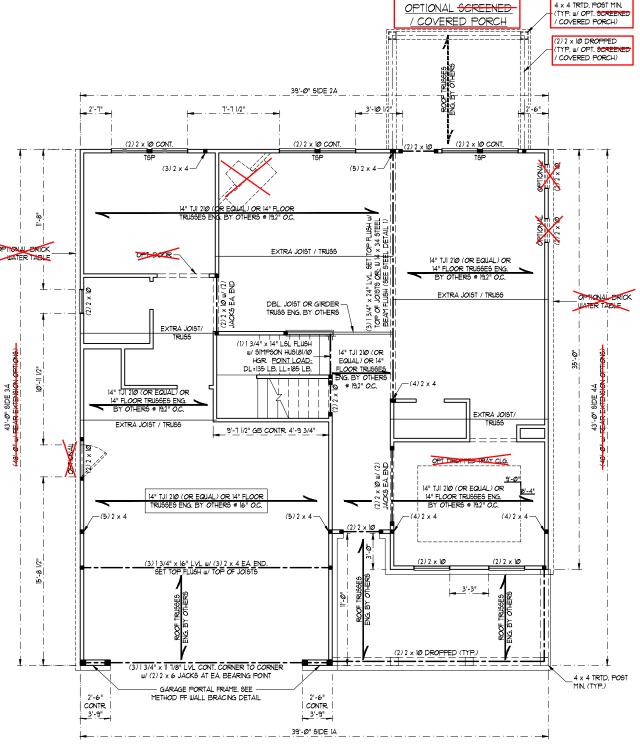
  NACCORDANCE WITH

THOMPSON
SINEERING, INC. 

DRAWN BY: MAIN STREET DES GINEERED BY: ZHH

S-1.2a MONO SLAB FOUNDATION PLAN





ELEVATION B

TABLE R6@2.1.5 MINIMUM NUMBER OF FULL HEIGHT STUDS
AT EACH END OF HEADERS IN EXTERIOR WALLS

		HEADER SPAN (FEET)	(PER TABLE	E R6Ø23(5)
ĺ	Note	(IEEI)	16	24
	NOTE:	UP TO 31	1	1
		4'	2	1
	BCI 5000s-18 JOISTS MAY BE USED IN LIEU OF TJI 210 JOISTS AT THE DEPTH	8'	3	2
		12'	5	3
	AND SPACING INDICATED ON THE PLANS.	16'	6	4
			-	

4 x 4 TRTD, P06T MIN.

SCALE NOTE:

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

WILL H.

1/3/2023

### BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602.10 OF THE NORC
- 20/8 EDITION.
  C5-W5P REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL 11/6" OSB ON ALL EXTERIOR WALLS ATTACHED W 8d NAILS SPACED 6"
  OC. ALONG PANEL EDGES AND 12" OC. IN THE FIELD.
  "GB REFERS TO "GYPSUM BOARD" CONTRACTOR 15 TO INSTALL
- 1/2" (MIN) GYPSUM MALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH I I/4" SCREWS OR I 5/8" NAILS SPACED T" O.C. 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

### BRACED WALL DESIGN

RECTANGLE A SIDE IA (FRONT LOAD)
METHOD: C5-W5P/GB/PF
TOTAL REQUIRED LENGTH: 12.71 TOTAL PROVIDED LENGTH: 15.56' SIDE 2A (OPT. EXTENSIONS) METHOD: C5-W5P TOTAL REQUIRED LENGTH: 12.11

TOTAL PROVIDED LENGTH: 15.88' SIDE 3A (SIDE LOAD) METHOD: C5-WSP/PF TOTAL REQUIRED LENGTH: 10.641 TOTAL PROVIDED LENGTH: 26.151 METHOD: CS-WSF

TOTAL REQUIRED LENGTH: 10.64 TOTAL PROVIDED LENGTH: 49,0' TOTAL PROVIDED LENGTH: 21,0'

TOTAL REQUIRED LENGTH: 2.511 TOTAL PROVIDED LENGTH: 6.0' SIDE 2B METHOD: C5-WSP TOTAL REQUIRED LENGTH: 2.51' TOTAL PROVIDED LENGTH: 12.0"

SIDE 3B METHOD: C5-W5P TOTAL REQUIRED LENGTH: 2.0' TOTAL PROVIDED LENGTH: 19.331 SIDE 4B/3A COMBINED METHOD: CS-WSP

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPF #2 OR SYP #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 SPF 12 OR SYP 12 (KILN DRIED) (UNO). HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED LOADS. CODE TABLES HAVE NOT BEEN USED.
  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 (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
- FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO SLAB W/ (2) METAL ANGLES USING 2" CONC. SCREUS. 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

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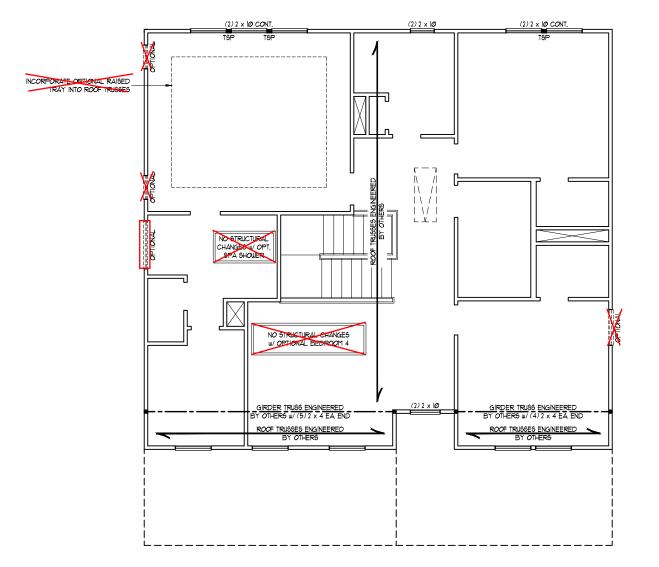
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S-3a SECOND FLOOR FRAMING PLAN



ELEVATION B

### SCALE NOTE:

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

WALLEY H.

1/3/2023

### BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602.10 OF THE NORC
- 2016 EDITION.
  CS-USP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL 1/16" OSB ON ALL EXTERIOR WALLS ATTACHED W/ 80 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 MALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH I I/4" SCREWS OR I 5/8" NAILS SPACED T" O.C. 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 NCRC 2016 EDITION. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED

- PER SECTION R602.10.3.2 OF THE 2018 NCRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT
- BRACING ON THE SECOND FLOOR EXCEEDS THE AFRONT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED.

  2. SHEATH ALL EXTERIOR WALLS WITH 1/16" OSB SHEATHING ATTACHED WITH ANLIS 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).
- (2) 2 X B (UNO).

  WINDOW AND DOOR HEADERS TO BE SUPPORTED W/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.). SEE TABLE R602.1.5 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 "TSP" INDICATES TRIPLE STUD POCKET BETWEEN WINDOW UNITS.

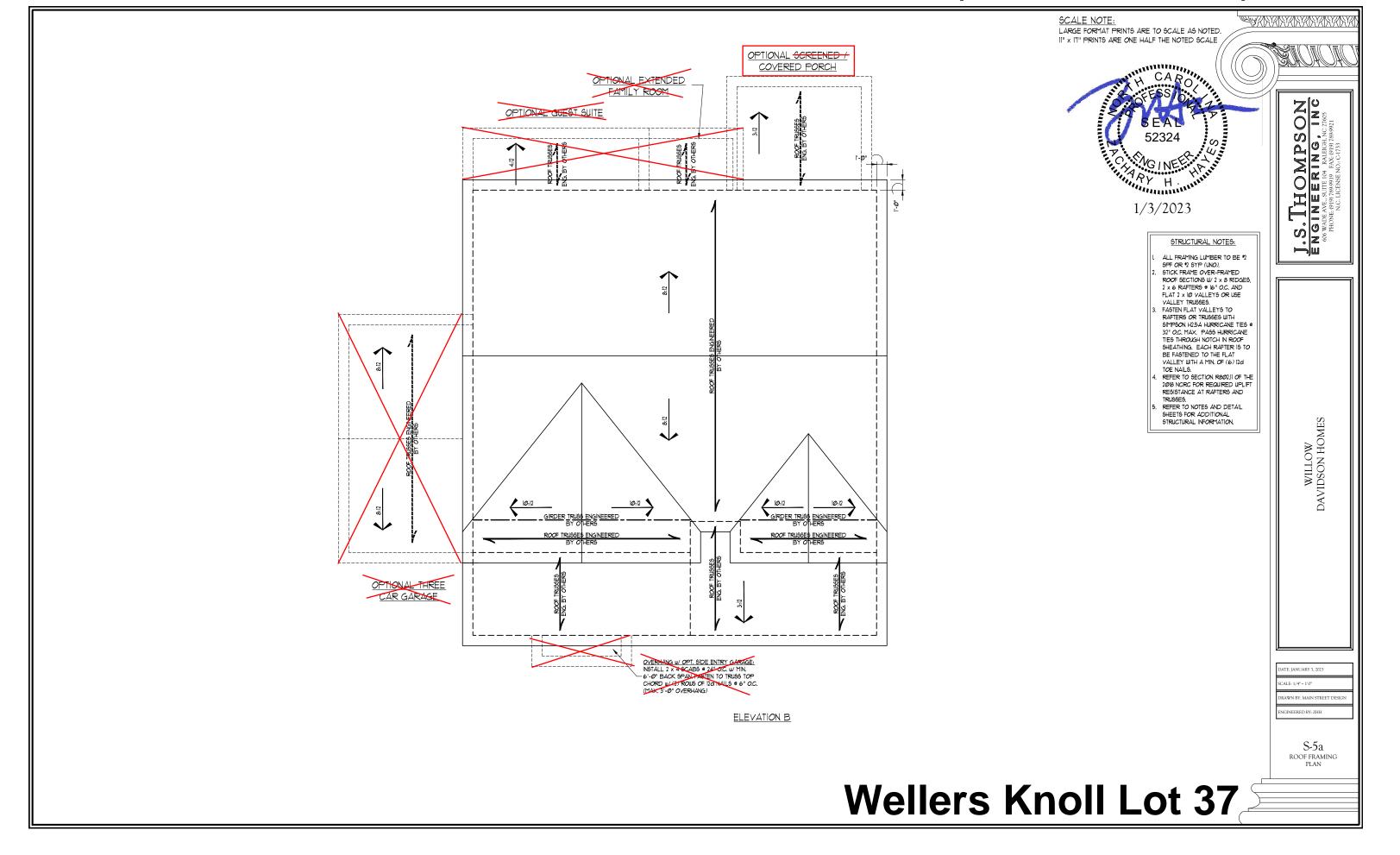
TABLE R602.7.5 MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

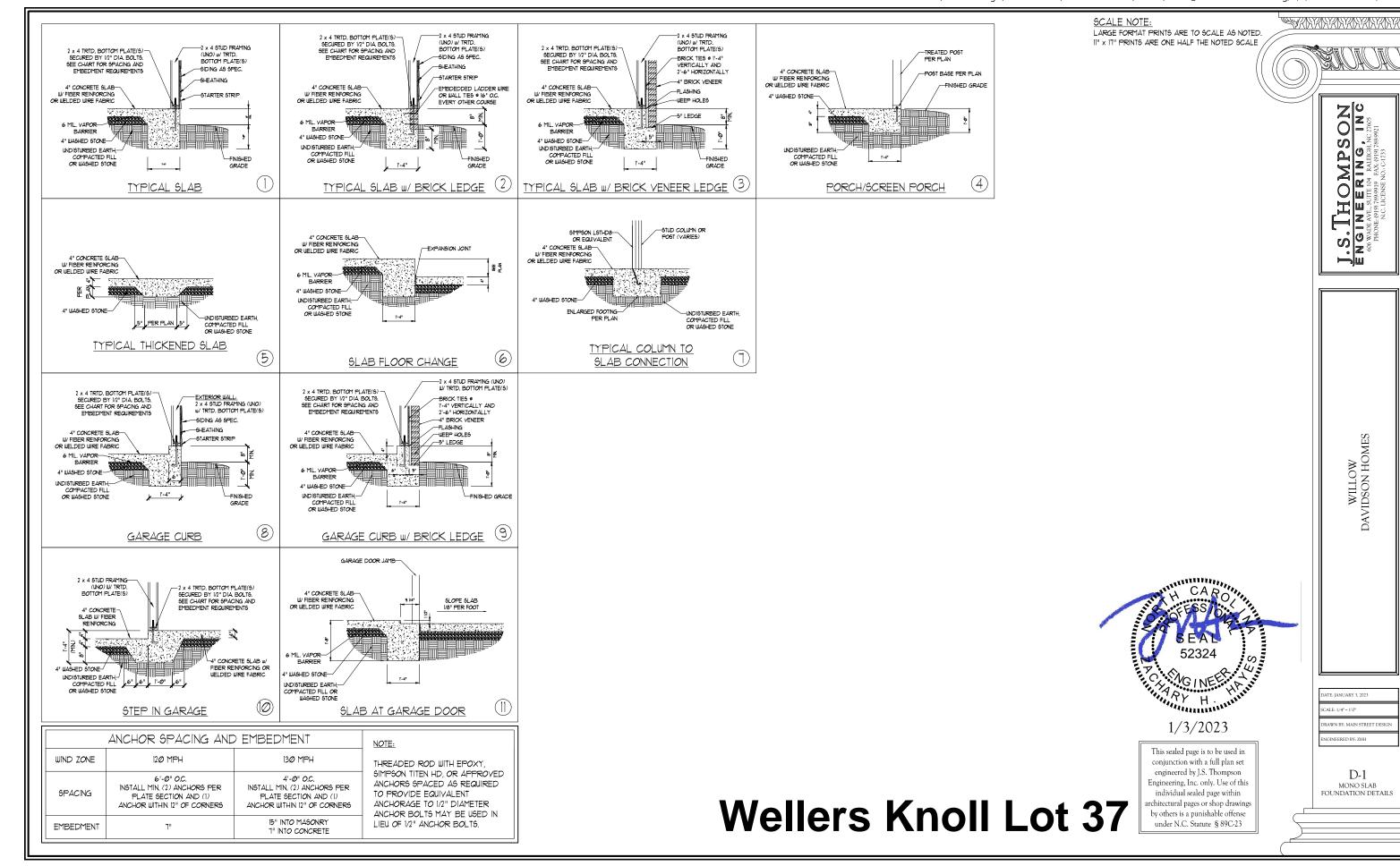
HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCH (PER TABLE R6023(5)				
(1221)	16	24			
UP TO 3'	1	1			
4"	2	1			
8'	3	2			
12'	5	3			
16'	6	4			

RAWN BY: MAIN STREET D

S-4a ATTIC FLOOR FRAMING PLAN

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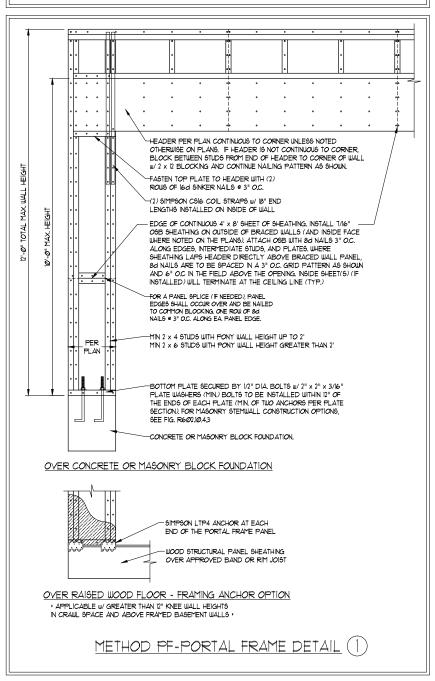
SCALE NOTE:

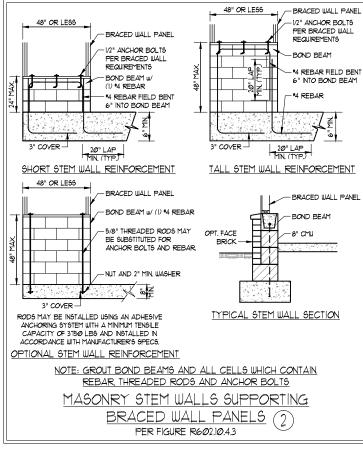
### GENERAL WALL BRACING NOTES:

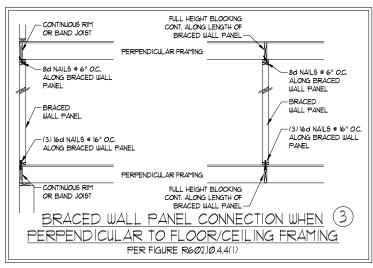
WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC.) TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.

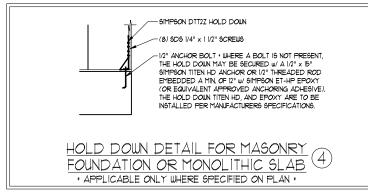
AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERED PRACTICE.

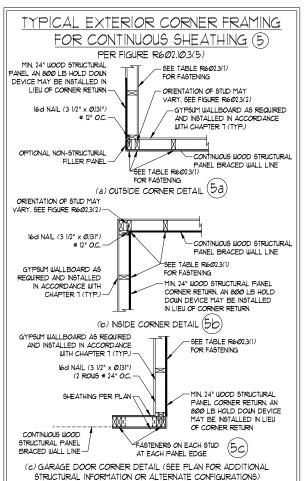
- BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED PER R602.3.5 (3), WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT
- 4. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, 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
- 6. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED, WHEN NOT USING METHOD "GB", GYPSUM TO BE
- 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(I). EXTERIOR GB TO BE INSTALLED VERTICALLY.
- REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R&OZ. 03, METHOD CS-MSP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES IS ITMES ITS ACTUAL LENGTH.

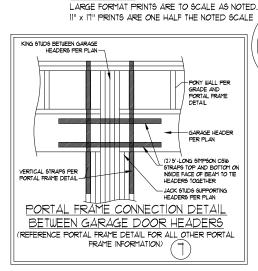


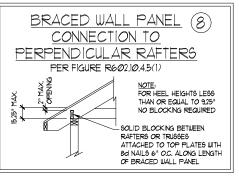


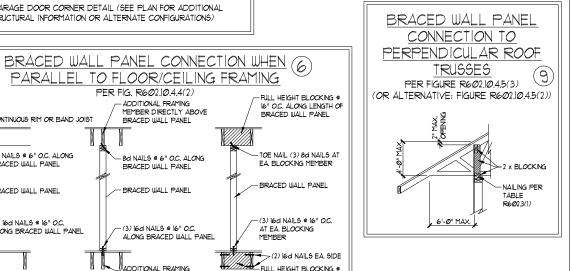














PARALLEL TO FLOOR/CEILING FRAMING

PER FIG. R602.10.4.4(2)

- ADDITIONAL FRAMING

BRACED WALL PANEL

BRACED WALL PANEL

- BRACED WALL PANEL

-(3) 16d NAILS @ 16" O.C.

ADDITIONAL FRAMING

ALONG BRACED WALL PANEL

8d NAILS # 6" O.C. ALONG

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- CONTINUOUS RIM OR BAND JOIST

8d NAILS @ 6" O.C. ALONG

BRACED WALL PANEL

BRACED WALL PANEL

-(3) 16d NAILS @ 16" O.C.

ALONG BRACED WALL PANEL

NTINUOUS RIM W/ FINGER



TE: JANUARY 3, 2023 RAWN BY: MAIN STREET DE INEERED BY: ZHE

NOTES AND DETAILS

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WILLOW DAVIDSON HOMES

D-4 WALL BRACING

### 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)

LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
20	10	L/240 (L/360 w/ BRITTLE FINISHES)
10	10	L/360
40	10	L/36Ø
40	10	L/36Ø
40	10	L/360
200 LB OR 50 (PLF)	10	L/36Ø
5Ø	10	L/36Ø
40	10	L/36Ø
3Ø	10	L/36Ø
40	10	L/36Ø
(BASED ON TABLE R3012)	4) WIND ZONE AND EXPOSURE)	
2Ø (PSF)		
	20 10 40 40 200 LB OR 50 (PLF) 50 40 30 40 (BASED ON TABLE R3012(	20  0  0  0  0  0  0  0  0  0  0  0  0  0

- 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 ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION R403.16 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 \$LAB\$ AND FOOTING\$, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE \$HALL HAVE ALL VEGETATION, TOP \$OIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL \$HALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL \$HALL BE COMPACTED TO A\$\$URE UNIFORM \$UPPORT OF THE \$LAB\$, AND EXCEPT WHERE APPROVED, THE FILL DEPTH\$ \$HALL NOT EXCEED 24" FOR CLEAN \$AND OR GRAVEL. A 4" THICK BA\$ED COURSE CONSISTING OF CLEAN GRADED \$AND OR GRAVEL \$HALL BE PLACED. A BA\$E COURSE IS NOT REQUIRED WHERE A CONCRETE \$LAB IS INSTALLED ON WELL-DRAINED OR \$AND-GRAVEL MIXTURE \$OIL\$ CLA\$SIFIED A\$ GROUP I, ACCORDING TO THE UNITED \$OIL CLA\$SIFICATION \$Y\$TEM IN ACCORDANCE WITH TABLE R405.1 OF THE NORC, 2018 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE 6LAB 16 AT OR BELOW WATER TABLE. IF 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 A165. 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 S 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/A5CE 5/M5 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(1), R404.1.1(2), R404.1.1(3), OR R404.1.1(4) OF THE NCRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(5) OF THE NCRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

### FRAMING NOTES

- . ALL FRAMING LUMBER SHALL BE \*2 SPF (Fb = 815 PS), Fv = 315 PS), F = 1600000 PS)) OR \*2 SYP (Fb = 915 PS), Fv = 115 PS), E = 16000000 PS)) MINIMUM UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE \*2 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 = 19500000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO TI DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E = 18000000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 20000000 PSI. PSI INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

A. W AND WT SHAPES: ASTM A992
B. CHANNELS AND ANGLES: ASTM A36
C. PLATES AND BARS: ASTM A36

D. HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B

E. STEEL PIPE: 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 @ I6" O.C. OR (2) ROWS OF 1/2" DIAMETER BOLTS @ I6" O.C. IF I/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/ (2) ROWS OF 9/16" DIAMETER HOLES @ I6" O.C.

- 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.
- 7. 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 1 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 A3Ø1) 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 TRUSS 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.
- IØ. 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'-0" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (UNO). FOR ALL HEADERS 8'-0" 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) ROUS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R103.82.1 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 ROUS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (UNO).
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 × 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 × 8 RIDGES, 2 × 6 RAFTERS AT 16" O.C. AND FLAT 2 × 10 VALLEYS (UNO).
- IB. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 700 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 I6" SECTION OF SIMPSON CSI6 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



Wellers Knoll Lot 37 ENGINEERING, INC

606 WADE AVE, SUITE 104 RALEIGH, NC 27605
PHONE (91) 789-9017
NC, LICENSE NO. C. (773)

WILLOW DAVIDSON HOMES



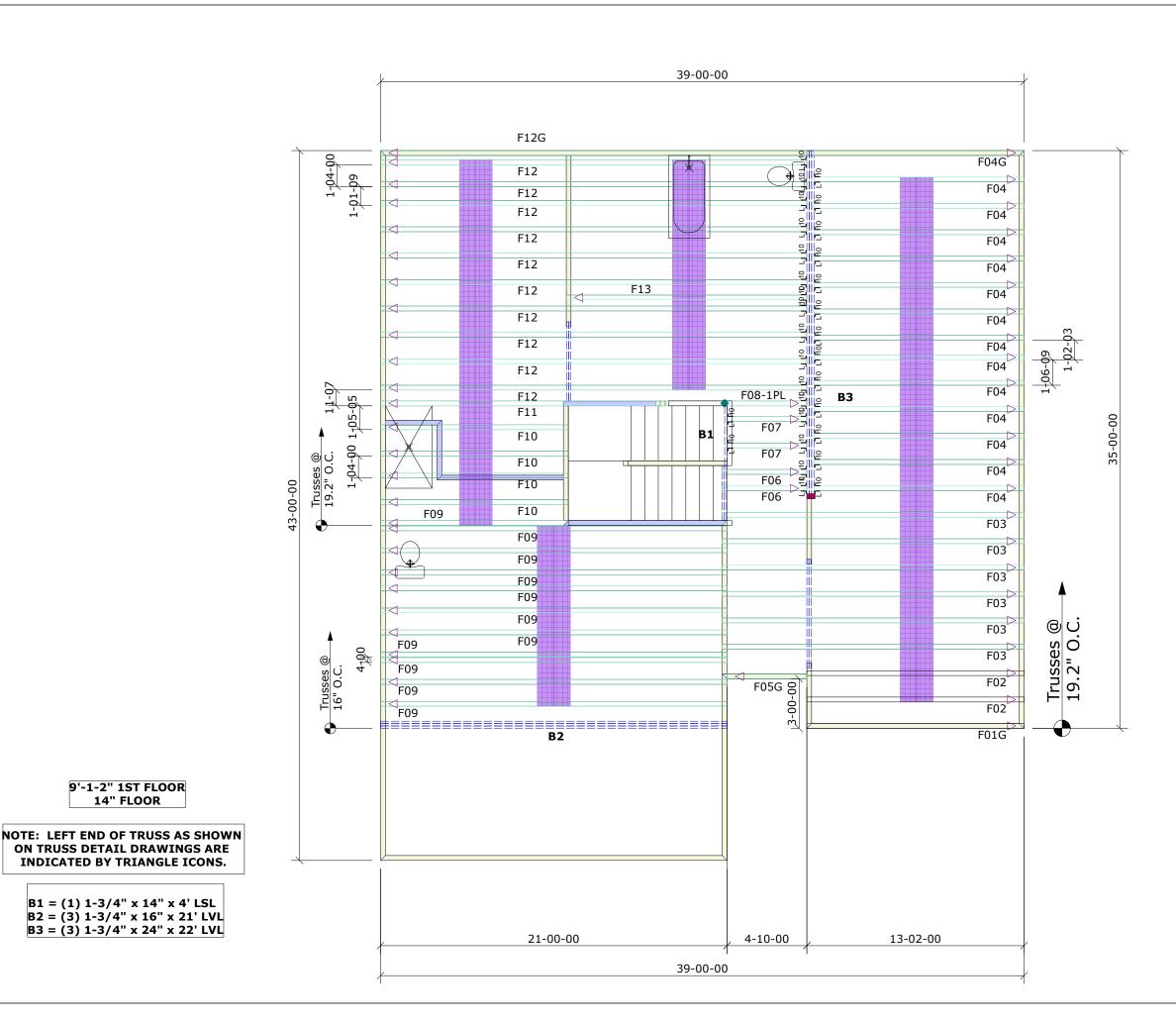
1/3/2023

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DATE: JANUARY 3, 2023 SCALE: 1/4" = 1'.0"

DRAWN BY: MAIN STREET DES

D-5 STANDARD STRUCTURAL NOTES



9'-1-2" 1ST FLOOR 14" FLOOR

B1 = (1) 1-3/4" x 14" x 4' LSL



## 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

### 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:

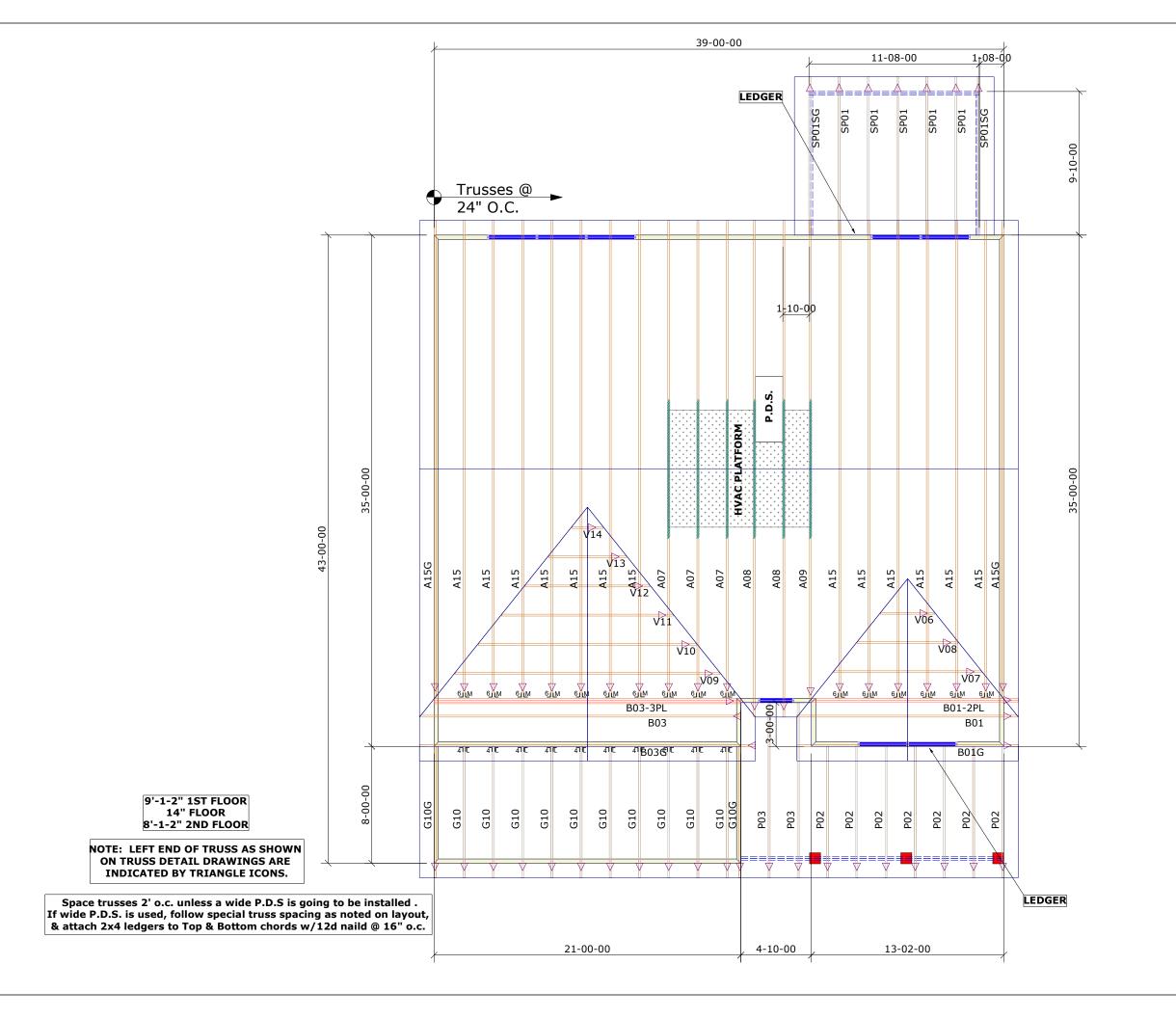
- Drawing not to scale. Do not scale dimensions

Hanger List					Tie Downs	H2.5	A Unless noted
31	LUS4		JL		Special	Ite	ms List
					Misc	<u>Ma</u>	t <u>erial</u>
			DA	VIC	SON		
WILLOW				Elev:	Elev: B		
WELLERS KNOLL							
HARNETT NO			2	Lot:	Lot: 37		
				<u>Ap</u>	pwr	ight #	
						-	
LH				Code:		IRC 2015	
				Loading:			
					T.C.L.L. 40		
Designed	_		TG		T.C.D.L		10
Layout:	_	WK	-		B.C.L.L		0
L/O Date	4	3/15	/24		B.C.D.L. 5		5
Revision History			<u>Wind:</u>				
Rev1:		xx/xx			M.P.H. 120 MPH		
Rev2:		xx/xx	<u> </u>				Category
Rev3:		xx/xx	xx/x				SURE B
Pick Tic			-		Job No		WK37
Sales I	Vo:		-		Acct No	2:	-

DAVIDSON HOMES

Hatch Legend

Volume Ceiling





### 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

### 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

Hang	er List		All	Tie Downs	H2.5	A Unless noted
	U26	MJ [6		Special	Ite	ms List
10 LUS24 <u>L</u> J L4						
				Misc	Ма	terial
			\ (T.F.			
			VIL	SON		
WILLOW				Elev:		В
	WELL	ERS	KNOLL			
HARNETT NO			2	Lot:		37
				Ap	pwi	ight #
COVERED PORCH/LI			Н	Code:		IRC 2015
				L	oac	ling:
				T.C.L.L	🗆	20
Designed B				T.C.D.I	- [	10
Layout:	WK	(37		B.C.L.L		0
L/O Date: 3/15/24			B.C.D.L. 10		10	
Revision History			Wind:		nd:	
Rev1:	xx/xx	x/xx		M.P.H. 120 MPH		120 MPH
Rev2:	xx/xx	k/xx		Exposure Category		Category
Rev3:	xx/xx	k/xx		E)	KPOS	SURE B
Pick Ticket	. "	-		Job No	22	WK37
Sales No:		-		Acct No: -		

DAVIDSON

Hatch Legend

Volume Ceiling Stick Framing