	LIVE LOAD	DEAD LOAD
TABLE R301.4	(PSF)	(PSF)
DWELLING UNITS	40	10
SLEEPING ROOMS	30	10
ATTICS WITH STORAGE	20	10
ATTICS WITHOUT STORAGE	10	10
ROOF SNOW	20	10
STAIRS	40	10
DECKS	40	10
EXTERIOR BALCONIES	60	10
PASSENGER VEHICLE GARAGES	50	-
FIRE ESCAPES	40	10
GUARDRAILS AND HANDRAILS	200	_

FRAMING LUMBER SHALL BE #2 SPRUCE PINE FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES: Fb = 875 PSI Fv = 70 PSI E = 1.4E6 PSI

2. FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE #2 CONTINUENCES CAPORED TO TREATING OF IN CONTINUE WITH THE GROUND, CONCRETE OR MASONRY SHALL BE #20 SOUTHERN YELDING PINE (SYP) TREATED IN ACCORDANCE WITH AWPA C22 WITH THE FOLLOWING DESIGN PROPERTIES: b = 1050 PSI Fv = 95 PSI E = 1.656 PSI

3. ENGINEERED WOOD BEAMS SHALL BE LAMINATED VENEER LUMBER (LVL) OR PARALLEL STRAND LUMBER (PSL) WITH THE Fb = 2900 PSI Fv = 285 PSI E = 1.9E6 PSI

4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 MINIMUM GRADE.

5. BOLTS SHALL CONFORM TO A307 MINIMUM GRADE.

6. REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60.

7. POURED CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN ACI 318 OR ASTM C 1157

8, CONCRETE LOCATED PER TABLE R402.2 SHALL BE AIR ENTRAINED WITH THE TOTAL AIR CONTENT NOT LESS THAN 5 PERCENT OR MORE THAN 7 PERCNET.

9. MASONRY UNITS SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 AND MORTAR SHALL COMPLY WITH ASTM C 270.

10. ALLOWABLE SOIL BEARING PRESSURE 2000 PSF.

ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY AND DOES NOT CERTIFY ARCHITECTURAL LAYOUT OR DIMENSIONAL ACCURACY. ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS OR ANY DEVIATION FROM THE

ALL CONSTRUCTION, WORKMANSHIP, MATERIAL QUALITY AND SELECTION SHALL BE IN ACCORDANCE WITH THE NO CARCILIA STATE BUILDING CODE: RESIDENTIAL CODE 2018 EDITION FROM THE INTERNATIONAL RESIDENTIAL CODE 2018 (IRC), AND LOCAL CODES AND REGULATIONS. DIMENSIONS SHALL GOVERN OVER SCALE AND CODE SHALL GOVERN OVER DIMENSIONS.

FIGURE R301.2(4) - BASIC DESIGN WIND SPEED 100 MPH

FIGURE R301.2(2) - SEISMIC DESIGN CATEGORY B

TABLE R301.2(2) - COMPONENT AND CLADDING LOADS FOR A MEAN ROOF HEIGHT OF 30 FEET OR LESS LOCATED IN EXPOSURE B

45.4 PSF FOR 0:12 TO 2.25:12, 34.8 PSF FOR 2:25:12 TO 7:12 AND 21 PSF FOR 7:12 TO 12:12

WALL CLADDING IS DESIGNED FOR A 24.1 PSF POSITIVE AND NEGATIVE PRESSURE

#### ENERGY COMPLIANCE:

REFER TO TABLE N1101.1 TO DETERMINE THE CLIMATE ZONE BY COUNTY AND REFER TO TABLE TABLE N1102.1 - REFER TO TABLE N1101.1 TO DETERMINE THE CLIMAN N1102.1 FOR R VALUE INSULATION REQUIREMENTS LISTED BY ZONE.

TABLE N1102.1 - ZONE 7 - MAX, GLAZING U FACTOR: 0.40. MIN. INSULATION R VALUES: CEILING R-30, WALLS R-13, FLOORS R-19, BASEMENT WALLS R-7, SLAB PERIMETER R-0, CRAWL SPACE WALLS R-7.

 $\begin{array}{l} \text{TABLE M1102.1-ZONE 8-MAX, GLAZING U FACTOR: 0.40. MIN. INSULATION R VALUES: CEILING R-30, WALLS R-13, \\ \text{FLOORS R-19, BASEMENT WALLS R-8, SLAB PERIMETER R-5 (2 FT DEEP), CRAWL SPACE WALLS R-10.} \end{array}$ 

1. STEEL FLITCH BEAMS SHALL BE FASTENED TOGETHER WITH 1/2" DIAMETER BOLTS WITH WASHERS PLACED UNDER THE HREADED END OF THE BOLT. BOLTS SHALL BE SPACED AT MAXIMUM 24" o.c. STAGGERED TOP AND BOTTOM OF BEAM WITH

. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ANCHORED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS

3. ENGINEERED WOOD BEAMS SHALL BE INSTALLED WITH ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

4. ALL BEAMS SHALL BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS

5. SOLID BLOCKING SHALL BE PROVIDED AT ALL POINT LOADS TO TRANSFER LOADS THROUGH FLOOR LEVELS. COLUMNS SHALL BE CONTINUOUS TO THE FOUNDATION OR TO OTHER STRUCTURAL ELEMENTS.

6. ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS SHALL BE PROVIDED FOR REVIEW AND COORDINATED WITH THE ENGINEER OF RECORD. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS

7. WALL BRACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH <u>SECTION R802.10</u> OF THE NORTH CAROLINA RESIDENTIAL CODE.

8. BRICK LINTELS SHALL BE 3 1/2  $\times$  3 1/2  $\times$  1/4 STEEL ANGLE FOR UP TO 6'0" MAXIMUM SPAN AND 6  $\times$  4  $\times$  5/16 FOR SPANS

9 BRICK LINTELS AT SLOPED AREAS SHALL BE 4 v 3 1/2 v 1/4 STEEL ANGLE WITH 164 NAILS IN 3/16\* HOLES IN 4" ANGLE LEG AT 5. BY CALL TO DOUBLE RAFTER. WHEN THE SLOPE EXCEEDS 4:12 A MINIMUM OF 3 x 3 x 1/4 PLATES SHALL BE WELDED AT 24" o.c. ALONG THE STEEL ANGLE.

# Lot 4 Christian Light Rd. Plan # 2596

	ATTIC VENT SCHEDULE									
	ELEVATION									
MAIN	HOUSE		SQ FTG	2190	2190 AT / NEAR RIDGE		AT / NEAR RIDGE			
VENT TYPE			SQ. FT. PERCENT OF TOTAL		POT LARGE (SQL FT. EACH)	POT SMALL (SQ. FT. EACH)	RIDGE VENT (SQ. FT. PER LF)	EAVE VENT (SQ.IN. EACH)	CONT. VENT	
			SUPPLIED	SUPPLIED	0.4236	0.2778	0.125	0.1944	0.0625	
•										
RIDGE VENT	2.92	3.65	7.38	68.60	0	0	59.00			
SOFFIT VENTS	4.38	3.65	3.38	31.40	0 54.00					
TOTAL (MIN)	7.30	7.30	10.75	100.00	POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE					

_			_	×					
* 51	CHEDIILE HA	AS REEN C	ALCHILATED ASSI	IMING FAVE VENT	ILATION AT 50	-60% OF TOTAL	AND RIDGE AT	T AN-SOM OF TOTAL	RECILIRED VENTUATION

	REVISION LOG								
Rev	Description	Drawn By	Date	Sheets Affected	Brochure Required	Engineering Required			
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

CONCRETE CONTINUOUS CONC CONT DBL DJ DSP EA FLPT FTG HGR LVL NTS OC PSL PT SC SP TJ TYP UNO DOUBLE JOIST DOUBLE STUD POCKET EACH FLAT PLATE LAMINATED VENEER LUMBER NOT TO SCALE PARALLEL STRAND LUMBER PRESSURE TREATED STUD COLUMN STUD POCKET TRIPLE JOIST UNLESS NOTED OTHERWISE

#### TABLE N1102.1 CLIMATE ZONES 3-5

CLIMATE ZONES	FENESTRATION U-FACTOR b	SKYLIGHT <sup>b</sup> U-FACTOR	GLAZED FENESTRATION SHGC b.e	CEILING <sup>k</sup> R-VALUE	WOOD FRANED WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT C WALL R-VALUE	SLAB <sup>d</sup> R-VALUE AND DEPTH	CRAWL SPACE C WALL R-VALUE
3	0.35	0.65	0.30	30	13	5/10	19	10/13 <sup>f</sup>	0	5/13
4	0,35	0,60	0.30	38 OR 30 CONT )	15 OR 13+2.5 <sup>h</sup>	5/10	19	10/13	10 <sup>d</sup>	10/13
5	0.35	0.60	NR	38 OR 30 CONT j	19 OR 13+5 OR 15+3e,h	13/17	30 9	10/13	10 <sup>d</sup>	10/13

- B. R-VALUES ARE MINIMUMNS, U-FACTORS AND SHGC ARE MAXIMUMS.
- b. THE FENESTRATION U-FACTOR COLUMN EXCLUDED SKYLIGHTS. THE SHGC COLUMN APPLIES TO ALL GLAZED FENESTRATION. g \*10/13" MEANS R-10 CONT, INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME OR R-13 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL OR
- CRAWL SPACE WALL,

  d. FOR NONOLITHIC SLASS, INSULATION SHALL SE APPLED FROM THE INSPECTION GAP DOWNWARD TO THE BOTTOM OF THE FOOTING OR A MAXIMUM OF 18 INCHES SELOW GRADE,
  WHICHEVER IS LESS. FOR FLOATING SLASS, INSULATION SHALL EXTEND TO THE BOTTOM OF THE FOUNDATION WALL OR 24 INCHES, WHICHEVER IS LESS. R4 SHALL BE ADDED TO THE
  REQUIRED SLAS EDGE PAVAILE FOR HEATED SLASS.

  a. R19 FIBERIOLS SHATES COMPRESSED AND INSTALLED IN A NOMINAL 2x6 CANTYLS DEBINED TO COMPLY, FIBERIOLASS BATTS RATED R-19 OR HIGHER COMPRESSED AND INSTALLED IN
  224 WALL IS NOT DEBINED TO COMPLY.

- A24 WALLS NOT DELINED TO COMPLY.

  (SERVINIT WALL SHOT DELINED TO COMPLY.)

  (SERVINIT WALLS ALTONIS NOT REQUIRED IN WARM-HUMO LOCATIONS AS DEFINED BY FIGURE 11/101.2 (1 AND 2) AND TABLE 11/101.2.

  (SOR INSILIATION SUFFICIENT OF ILL THE FRAMMS COMPLY, 2-IN MINIMAL SHOULD AND THE STRUCTURAL SHEATHING LOWERS 25 PERCENT OF ILL THE STRUCTURAL SHEATHING LOWERS 25 PERCENT OR LESS OF THE CHEROK INSILIATION SHOULD SHEATHING SHOULD SHEATHING SHOULD SHEATHING SHEA
- RADISHALL BE DEFINED TO SATISY THE CELLING INSULATION REQUIREMENT WHEREVER THE FULL HEIGHT OF THE UNCOMPRESSED RADINSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EAVES, OTHERWISE RADINSULATION IS REQUIRED WHERE ADEQUATE CLEARANCE EXISTS OR INSULATION MUST EXTEND TO EITHER THE INSULATION BAFFLE OR WITHIN 1"
- IL TABLE VALUE REQUIRED EXCEPT FOR ROOF EDGE WHERE THE SPACE IS LIMITED BY THE PITCH OR THE ROOF, THERE THE INSULATION MUST FILL THE SPACE UP TO THE AIR BAFFLE.

SCREEN PORCH FRONT PORCH GARAGE 500 TOTAL 773

SQUARE FOOTAGE

HEATED S.F.

1561

1035

FIRST FLOOR

SECOND FLOOR

CLADDING POSITIVE & NEGATIVE PRESSURE = 21 PSF

1 1/2 STORY = 19'-0" CLADDING POSITIVE & NEGATIVE PRESSURE = 34.8 PSF

CLADDING POSITIVE & NEGATIVE PRESSURE = 34.8 PSF

ANCHOR BOLTS INSTALL ANCHOR BOLTS, NUTS, AND WASHERS PER CODE AT ALL EXTERIOR WALL TREATED PLATES AND AT INTERIOR BEARING WALL TREATED PLATES ON SLAB FOUNDATIONS. TO BE A MINIMUM OF 6' O.C. AND

(C) COPYRIGHT 2010 SOUTHERN DESIGNS, INC.

WITHIN 12" FROM THE ENDS OF EACH PLATE.

DESIGN PRESSURES MINIMUM RATING: 25 PSF

MI WINDOWS 3500 SERIES LOW E-GLASS WINDOWS



DESIGNS

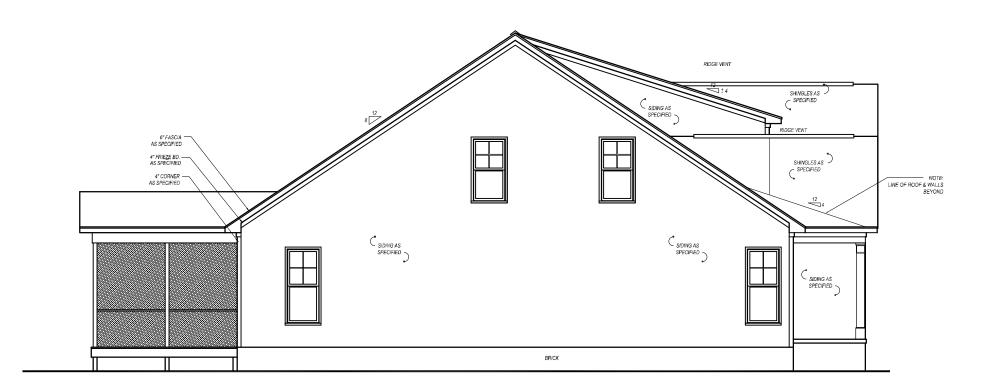
P.O. Box 688 Wake Forest, NC 27588 (O) 919-556-2226 (F) 919-556-2228 www.southdesigns.com

Drawn By: RV	VB
8-11	1-2020
Revision No.	Revision Date

COVER SHEET



FRONT ELEVATION
SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)
SCALE: 1/4"=1'-0" (24"x36" SHEET SIZE)



LEFT SIDE ELEVATION

SCALE: 1/8"=1"-0" (11"x17" SHEET SIZE)

SCALE: 1/4"=1"-0" (24"x36" SHEET SIZE)

© COPYRIGHT 2010 SOUTHERN DESIGNS, INC.



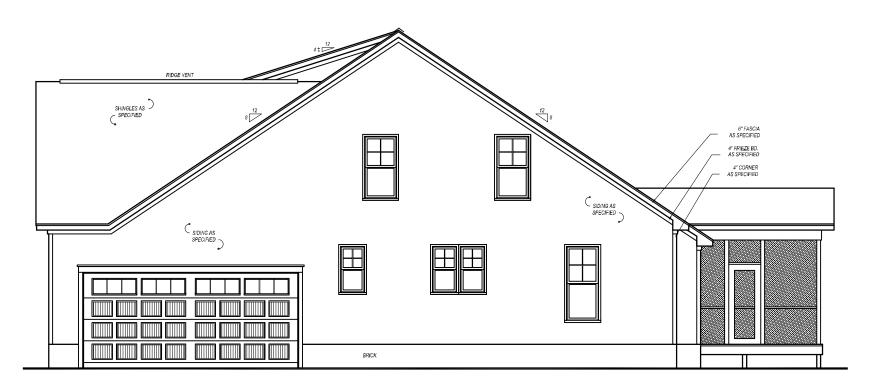
# SOUTH

DESIGNS
P.O. Box 688
Wake Forest, NC 27588
(0) 919-556-2226
(F) 919-556-2228
www.southdesigns.com

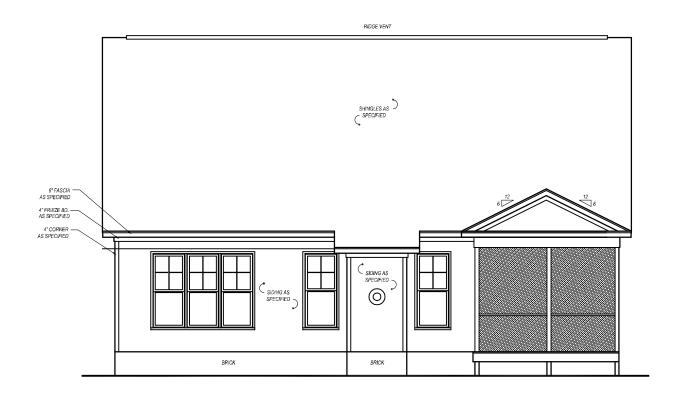
	Drawn By: Checked By:	
ı	8-11	-2020
ı	Revision No.	Revision Date
П		

ELEVATIONS

2596



RIGHT SIDE ELEVATION
SCALE: 1/8"=1"-0" (11"x17" SHEET SIZE)
SCALE: 1/4"=1"-0" (24"x36" SHEET SIZE)







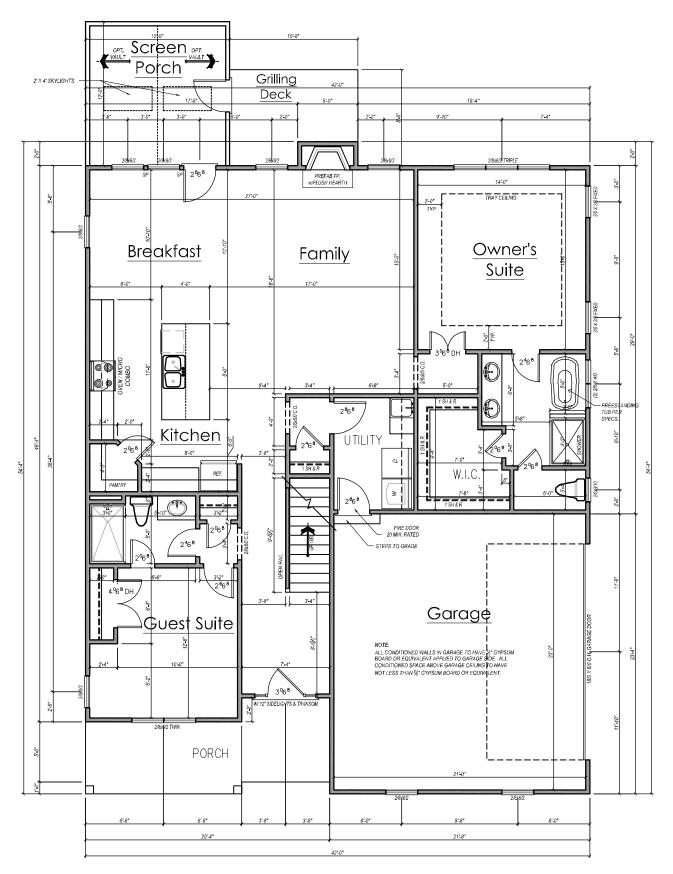
# SOUTH

DESIGNS
P.O. Box 688
Wake Forest, NC 27588
(0) 919-556-2226
(F) 919-556-2228
www.southdesigns.com

	Drawn By: Checked By:	
	8-11	-2020
П	Revision No.	Revision Date
П		
П		

ELEVATIONS

2596 EL-2



#### GENERAL NOTES

WALLS:
ALL WALLS ARE DRAWN 4"
THICK U.N.O.
ANGLED WALL ARE DRAWN
\$45' U.N.O.
SMOKE DETECTORS:
LOCATION AND NUMBER OF
DETECTORS SHALL CONFORM
TO NEC.
EGRESS:
ALL BEDROOMS MUST HAVE

ELORESS:
ALL BEDROOMS MUST HAVE
AT LEAST ONE WINDOW WHICH
CONFORMS TO R-310 OF THE
N.C. BLDG. CODE IT IS THE
CONTRACTOR'S RESPONSIBILITY
TO VERIFY CHOSEN WINDOWS
MEET EGRESS REQUIREMENTS
AS MANUFATURERS VARY.

MEEL ESKESS NEQUIREMENTS AS MANUFATURERS VARY.

ATTIC ACCESS:
MIN. ATTIC ACCESS SHALL BE PROVIDED BY BUILDER AND LOCATED ON SITE.

WALL/CEILING HGT.
WALL AND CEILING HEIGHT NOTES ARE BASED ON NOMINAL WALL SIZE.
KNEE WALL HEIGHT LABELS FOR WALLS UNDER RAFTERS ASSUME AN EXTRA 2" FOR FURRING (IN HEATED SPACES) FOR INSULATION. THE WALL HEIGHT REFERS TO THE HGT.
FROM THE FLOOR DECKING TO THE BOTTOM OF THE FURRING.

SQUARE FOOTAGE					
	HEATED S.F.	UNHEATED S.F.			
FIRST FLOOR	1561				
SECOND FLOOR	1035				
SCREEN PORCH		144			
FRONT PORCH		129			
GARAGE		500			
TOTAL	2596	773			

FIRST FLOOR PLAN
SCALE: 1/8"=1"-0" (11"x17" SHEET SIZE)
SCALE: 1/4"=1"-0" (24"x36" SHEET SIZE)



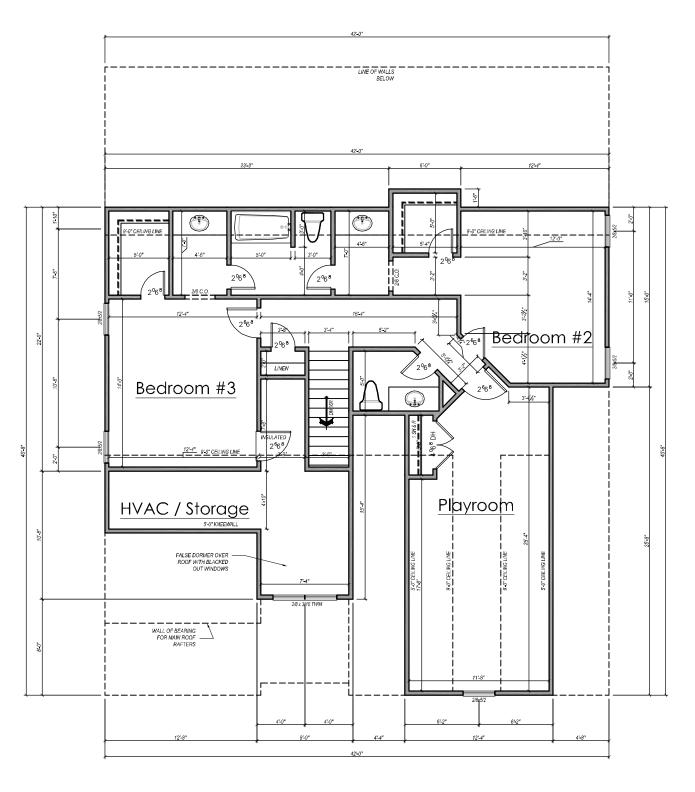
SOUTH **DESIGNS** 

P.O. Box 688 Wake Forest, NC 27588 (O) 919-556-2226 (F) 919-556-2228 www.southdesigns.com

Drawn By: Checked By:	
8-11	-2020
Revision No.	Revision Date

**FIRST FLOOR PLAN** 

2596



SECOND FLOOR PLAN
SCALE: 1/8"=1"-0" (11"x17" SHEET SIZE)
SCALE: 1/4"=1"-0" (24"x56" SHEET SIZE)



# SOUTH

DESIGNS

P.O. Box 688

Wake Forest, NC 27588

(0) 919-556-2226

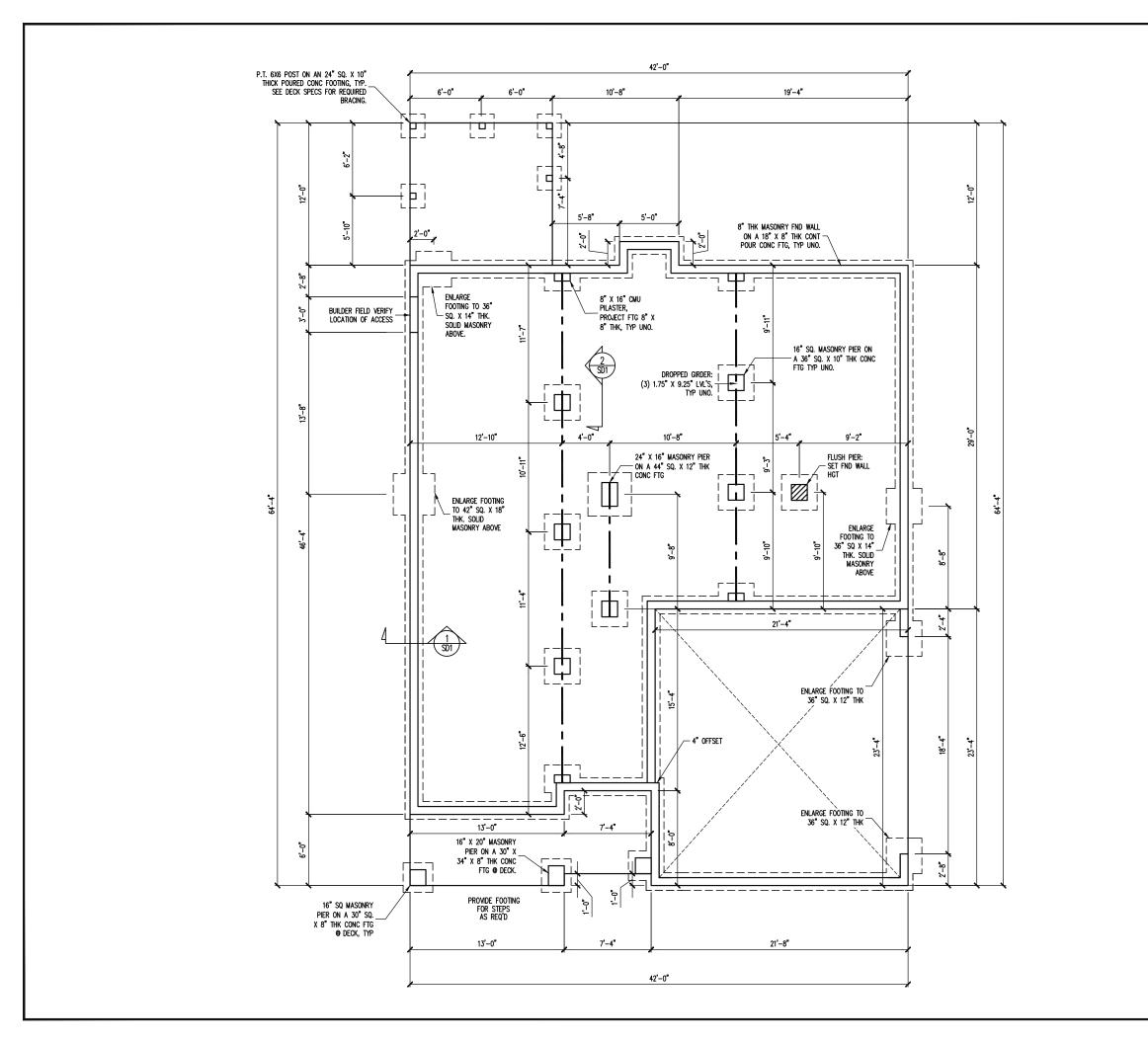
(F) 919-556-2228

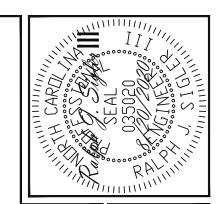
www.southdesigns.com

Drawn By: Checked By:	
8-11	-2020
Revision No.	Revision Date

SECOND FLOOR PLAN

2596





STRUCTURAL ENCINEERS
License No. C-3870
183 Wind Chime Ct, Ste 100
Raleigh, North Carolina 27615
Phone (919) 844-1661 TRIPLE A HOMES
STRUCTURAL ADDENDUM
4 CHRISTIAN LIGHT 20

NOTES:

-HEIGHT AND BACKFILL LIMITATIONS FOR
FOUNDATION WALLS ARE TO BE GOVERNED
BY THE NCSBC, LATEST EDITION,
REINFORCEMENT AND GROUTING SHALL BE
DETERMINED BY FINAL SITE CONDITIONS.

-BUILDER TO FIELD LOCATE CRAWLSPACE ACCESS OPENING WITH MINIMUM DIMENSIONS OF 18X24. DO NOT LOCATE ACCESS OPENING BELOW POINT LOADS FROM ABOVE WITHOUT ENGINEER APPROVAL.

FOUNDATION PLAN

1/8" = 1'-0"

SHEET NO.

1 of 10

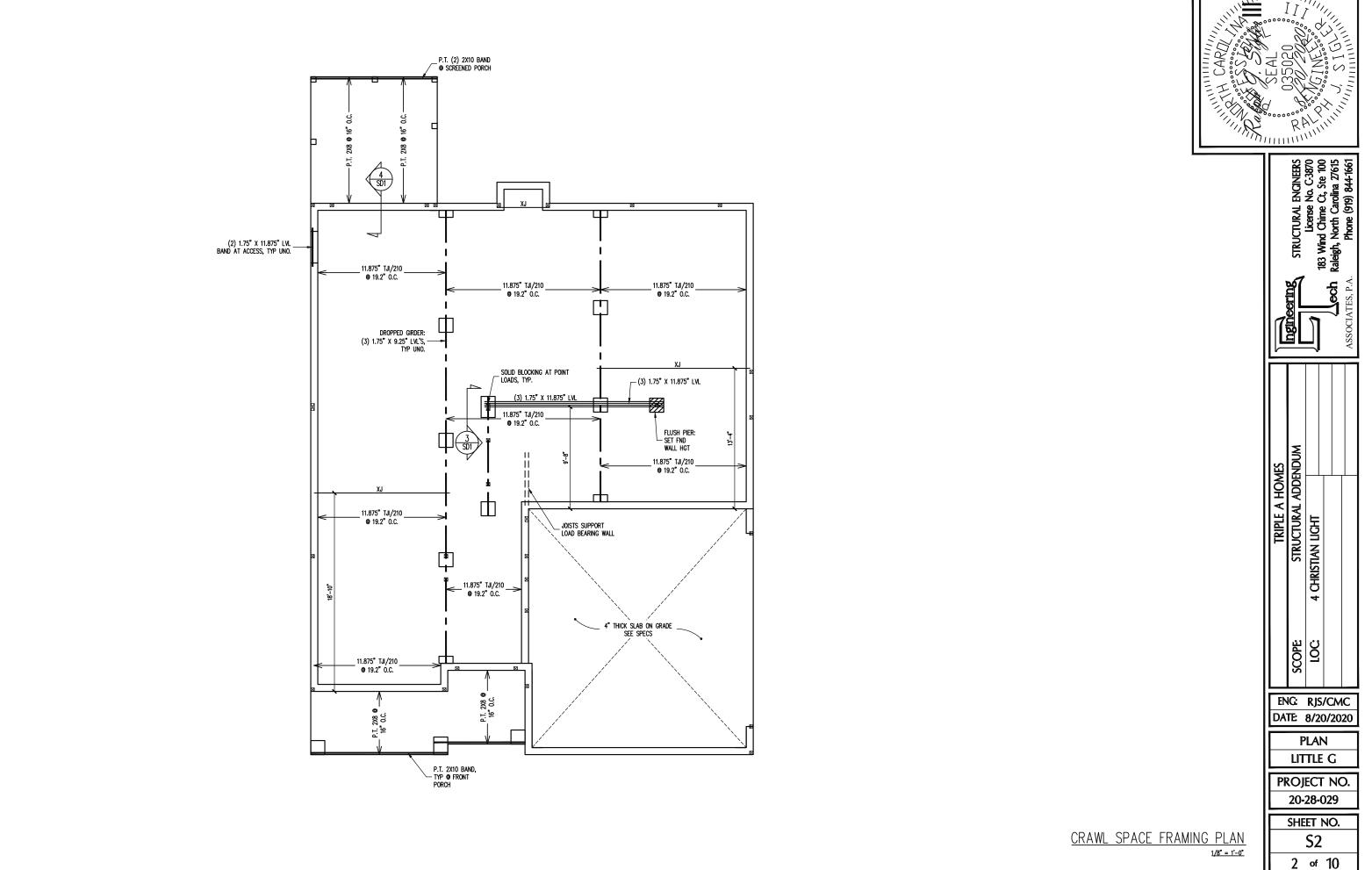
ENG: RJS/CMC

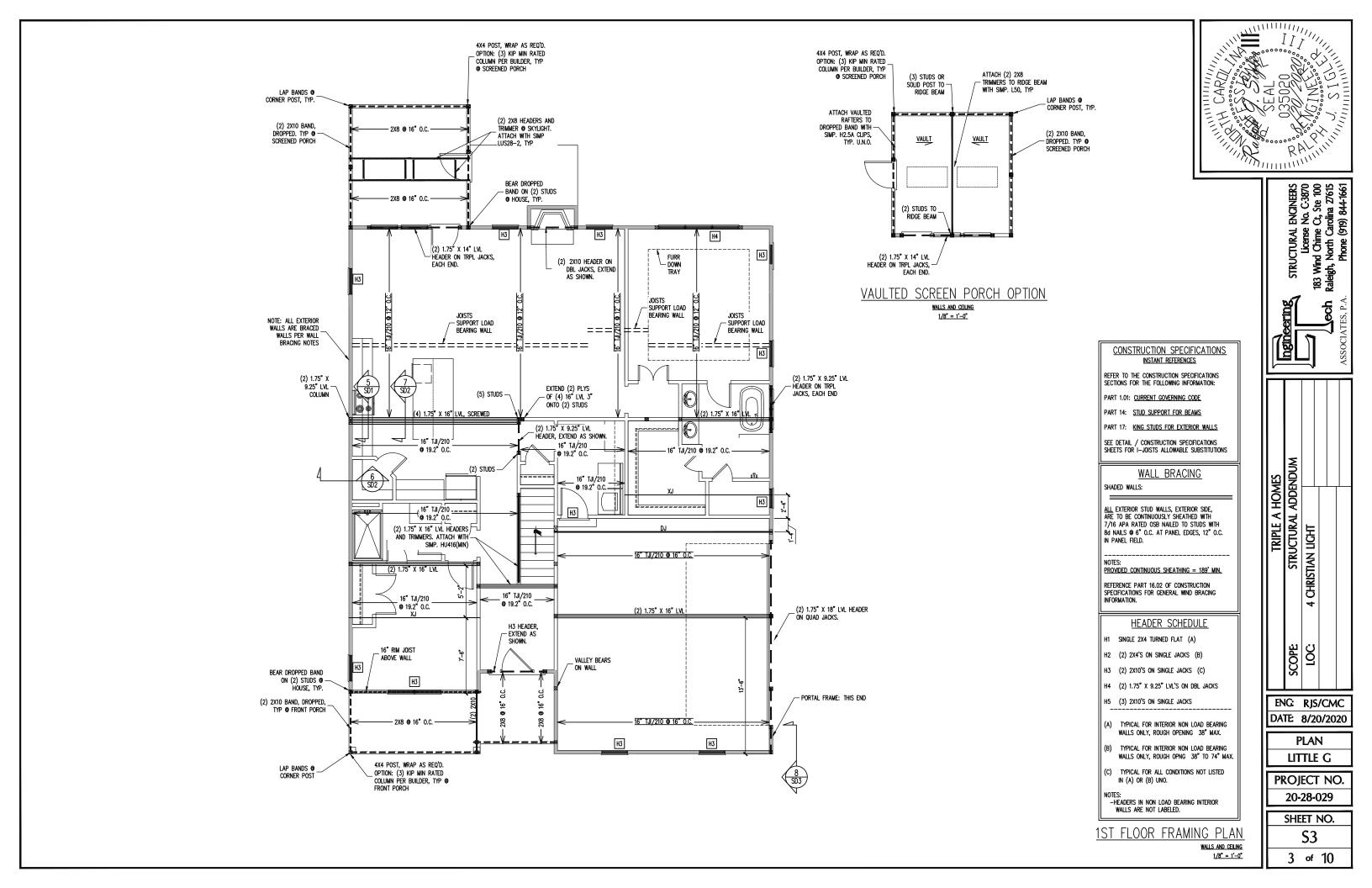
DATE: 8/20/2020

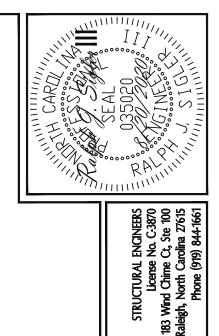
PLAN LITTLE G

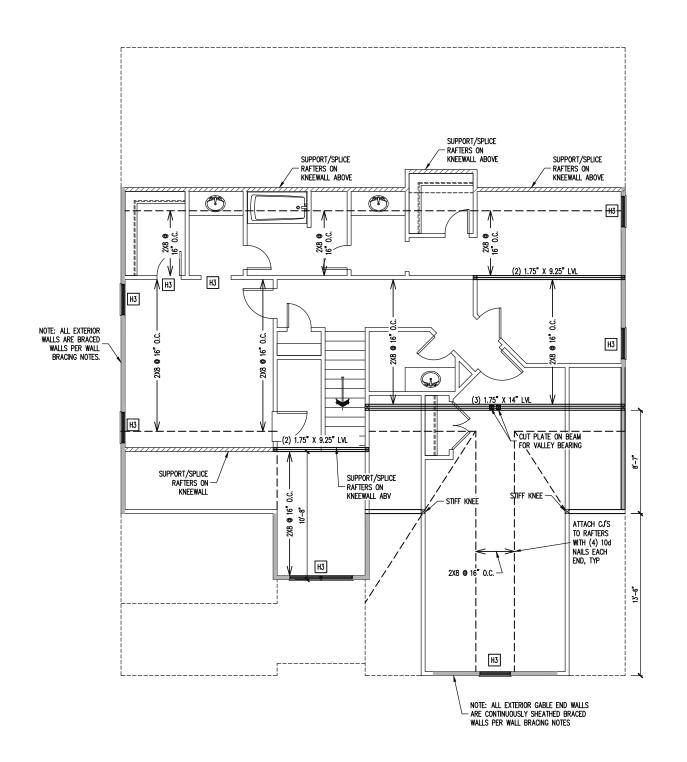
PROJECT NO.

20-28-029









## CONSTRUCTION SPECIFICATIONS INSTANT REFERENCES

REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION:

PART 1.01: CURRENT GOVERNING CODE

PART 14: STUD SUPPORT FOR BEAMS

PART 17: KING STUDS FOR EXTERIOR WALLS

### WALL BRACING

SHADED WALLS:

ALL EXTERIOR STUD WALLS, EXTERIOR SIDE, ARE TO BE CONTINUOUSLY SHEATHED WITH 7/16 APA RAITED OSB NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD.

NOTES:

PROVIDED CONTINUOUS SHEATHING = 71' MIN.

REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION.

### HEADER SCHEDULE

- H1 SINGLE 2X4 TURNED FLAT (A)
- H2 (2) 2X4'S ON SINGLE JACKS (B)
- H3 (2) 2X10'S ON SINGLE JACKS (C)
- H4 (2) 1.75" X 9.25" LVL'S ON DBL JACKS
- H5 (3) 2X10'S ON SINGLE JACKS
- (A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 38" MAX.
- (B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" TO 74" MAX.
- (C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO.

TES:

-HEADERS IN NON LOAD BEARING INTERIOR
WALLS ARE NOT LABELED.

## <u>2ND FLOOR FRAMING PLAN</u>

<u>WALLS AND CFILING</u> <u>1/8" = 1'-0"</u>

			<u> </u>	: 400		ASSOCIATES, P.A.
I KIPLE A HOMES	STRUCTURAL ADDENDUM	4 CHRISTIAN LIGHT				
	)PE	ဗ	;   			

ENG: RJS/CMC DATE: 8/20/2020

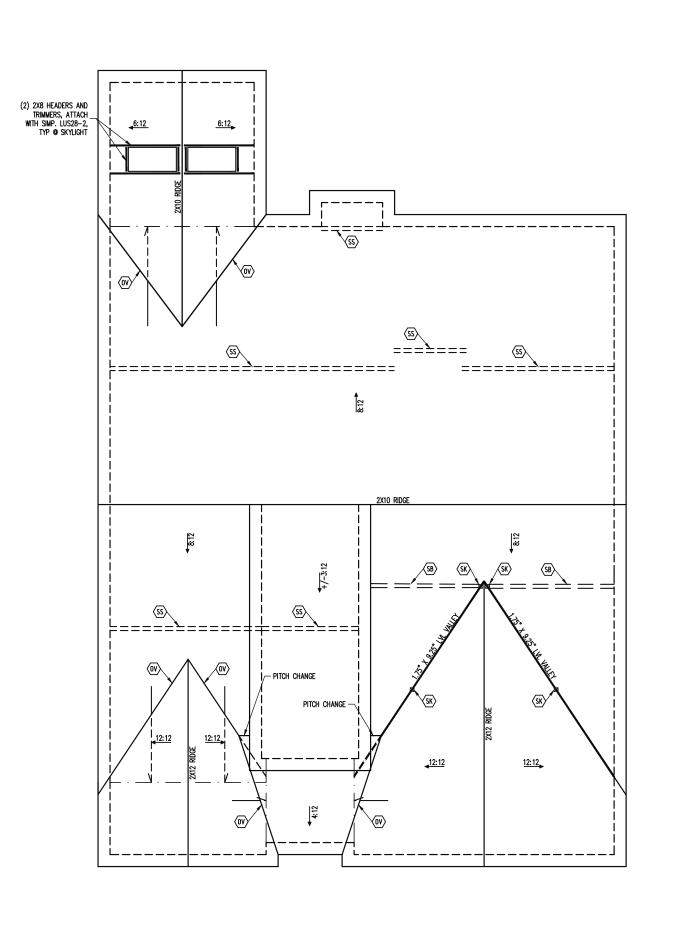
PLAN

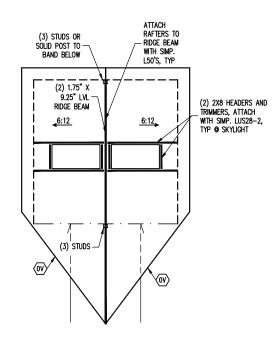
LITTLE G

PROJECT NO. 20-28-029

SHEET NO.

**S4** 





VAULTED SCREEN PORCH OPTION 1/8" = 1'-0"

TRIPLE A HOMES
STRUCTURAL ADDENDUM
4 CHRISTIAN LIGHT

## FRAMING NOTES

- ROOF ONLY

-COMMON RAFTERS 2X8 @ 16" O.C. TYP U.N.O.
-COLLAR TIES 2X4 EVERY 3RD SET OF RAFTERS
TYP U.N.O.
-VERIFY ALL KNEEWALL HEIGHTS,
ARCHITECTURAL OVERHANGS, AND ROOF PITCHES
PRIOR TO CONSTRUCTION

#### FRAMING SCHEDULE ROOF ONLY

- OVERFRAME VALLEY ( 2X10 SLEEPER )
- DBL 2X4 STIFF KNEE
- SUPPORT/SPLICE RAFTERS ON KNEEWALL BELOW
- SUPPORT/SPLICE RAFTERS ON BEAM BELOW

ROOF FRAMING PLAN

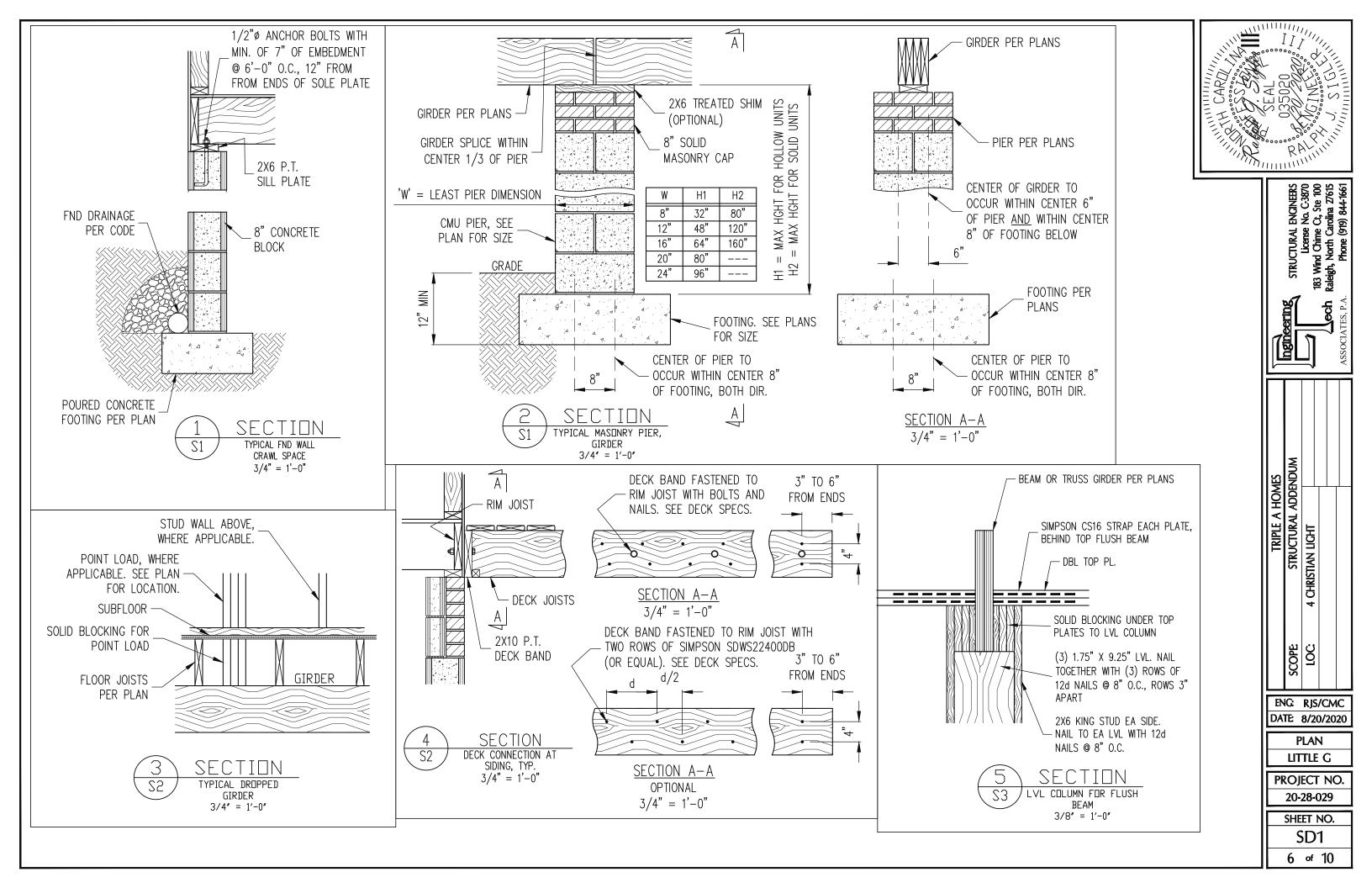
PLAN LITTLE G PROJECT NO. 20-28-029 SHEET NO.

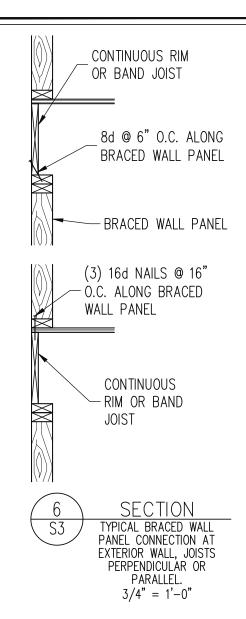
> **S5** 5 of 10

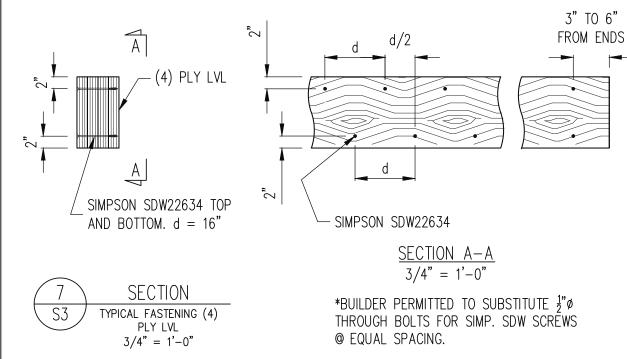
SCOPE

ENG: RJS/CMC

DATE: 8/20/2020







## NOTES

THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE FOLLOWING CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION:

1) THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR

ABV

B.E. BTWN

CIP

CONC

CS

DBL

DSP

EQ

EΑ FLG FLANGE

FL PL FLITCH

FLR FLOOR

2) THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION

ANY ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE RESPONSIBILITY OF THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO ENSURE THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE SUBCONTRACTORS

THE EOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING.

ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL TRUSS DRAWING SHOULD BE SUBMITTED TO THE EOR FOR REVIEW

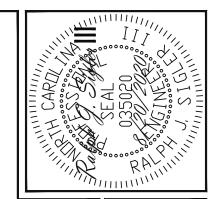
	ABI	BREVIATION	VS	
ABOVE BOTH BOTH ENDS BETWEEN CAST IN PLACE CONCRETE CONTINUOUS SHEATHING DIAMETER DOUBLE DOUBLE JOIST DBL STUD POCKET EQUAL EACH FLANGE FLITCH PLATE	FND FTG HDG HGR LVL NTS O.C. PSL PT QJ SP SQ	FOUNDATION FOOTING HOT DIPPED GALVANIZED HANGER LAMINATED VENEER LUMBER NOT TO SCALE ON CENTER PARALLEL STRAND LUMBER PRESSURE TREATED QUAD JOIST STUD POCKET SQUARE	TJ TYP TRPL TSP UNO XJ	TRIPLE JOIST TYPICAL TRIPLE TRIPLE STUD POCKE UNLESS NOTED OTHERWISE EXTRA JOIST

## ALLOWABLE I-JOIST SUBSTITUTION

NOTE: MAINTAIN JOIST DEPTH, DIRECTION, AND SPACING SPECIFIED ON PLANS.

MANUFACTURER	DEPTH	SERIES	SIMPSON FACE MOUNT HGR	SIMPSON TOP FLANGE HGR
BLUELINX BOISE CASCADE INTERNATIONAL BEAMS	11.875" 11.875" 11.875"	BLI 40 BCI 6000s IB 400	IUS2.56/11.88 IUS2.37/11.88 IUS2.56/11.88	ITS2.56/11.88 ITS2.37/11.88 ITS2.56/11.88
LP CORP NORDIC ROSEBURG WEYERHAEUSER WEYERHAEUSER	11.875" 11.875" 11.875" 11.875"	LPI 20+ NI 40X RFPI 40s TJI 210 EEI-20	IUS2.56/11.88 IUS2.56/11.88 IUS2.56/11.88 IUS2.06/11.88 IUS2.37/11.88	ITS2.56/11.88 ITS2.56/11.88 ITS2.56/11.88 ITS2.06/11.88 ITS2.37/11.88
BLUELINX BLUELINX BOISE CASCADE BOISE CASCADE INTERNATIONAL BEAMS	16" 16" 16" 16" 16"	BLI 40 BLI 60 BCI 5000s BCI 6000S IB 600	IUS2.56/16 IUS2.56/16 IUS2.06/16 IUS2.37/16 IUS2.56/16	ITS2.56/16 ITS2.56/16 ITS2.06/16 ITS2.37/16 ITS2.56/16
LP CORP NORDIC ROSEBURG WEYERHAEUSER	16" 16" 16" 16"	LPI 20+ NI 40X RFPI 60S TJI 210	IUS2.56/16 IUS2.56/16 IUS2.56/16 IUS2.06/16	ITS2.56/16 ITS2.56/16 ITS2.56/16 ITS2.06/16

JOISTS NOT LISTED IN THE ABOVE TABLE MAY BE USED PROVIDED THEY MEET OR EXCEED THE PROPERTIES OF THOSE LISTED. SUBSTITUTE USP BRAND HANGERS WITH EQUIVALENT VALUES AS DESIRED.



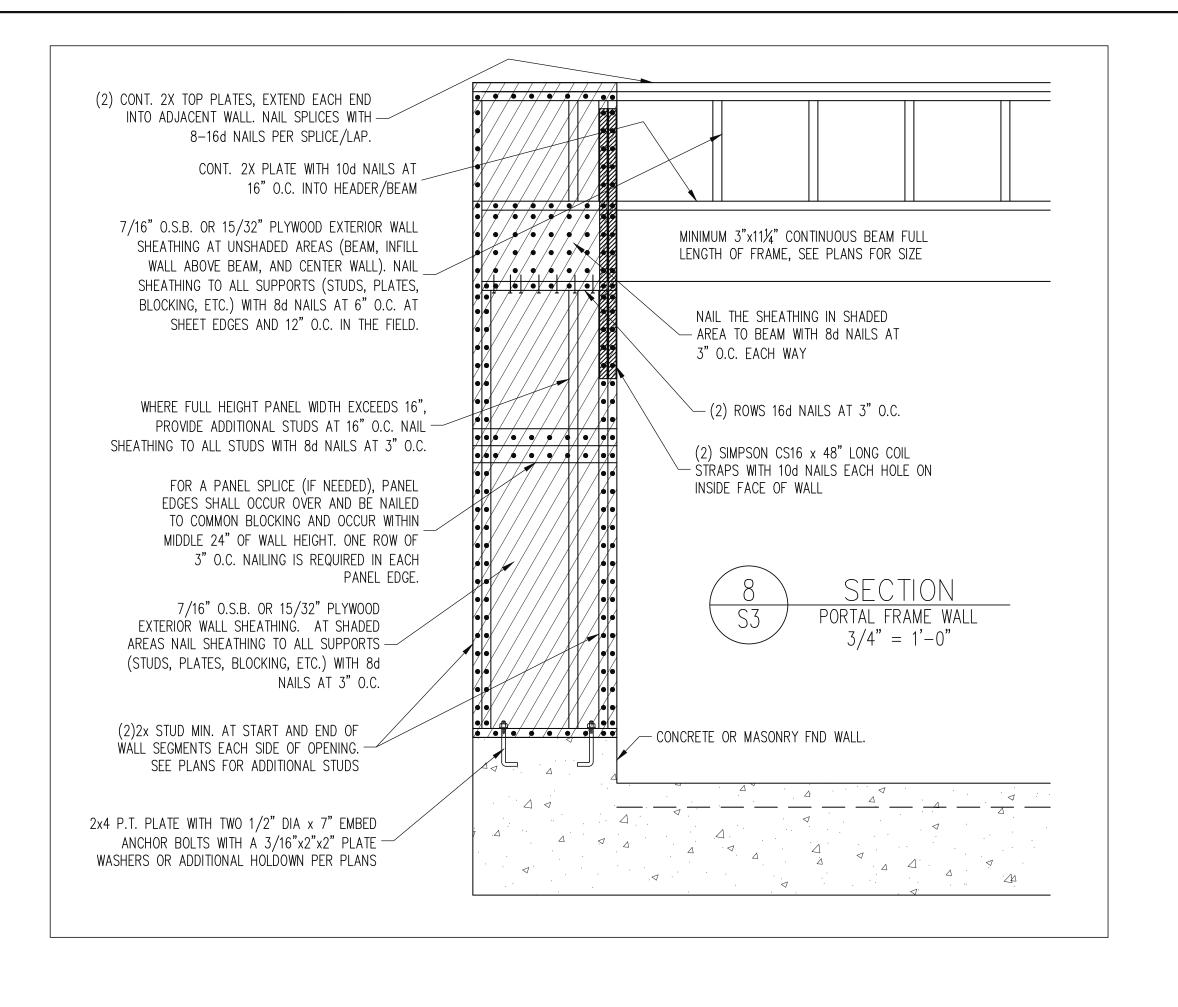


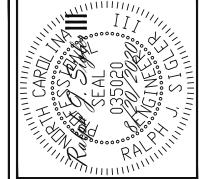
ENG: RJS/CMC DATE: 8/20/2020

> **PLAN** LITTLE G

PROJECT NO. 20-28-029

> SHEET NO. SD2





Dhono (010) 044 1661	A C RITAINORY			
ACCI Raleigh, North Carolina 2/615				
	00 P			
183 Wind Chime Ct. Ste 100				) )
License No. C-3870			4 CHRISTIAN LIGHT	501
STRUCTURAL ENGINEERS		NDUM	STRUCTURAL ADDENDUM	SCOPE
		/ES	TRIPLE A HOMES	

ENG: RJS/CMC DATE: 8/20/2020

PLAN LITTLE G

PROJECT NO. 20-28-029

SHEET NO.

## CONSTRUCTION SPECIFICATIONS

#### PART 1: GENERAL

- 1.01 CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 1.02 DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.
- 1.05 METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

#### PART 2: DESIGN LOADS

2.01 DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:

USE	LIVE LOAD (PSF)	DEAD LOAD (PSF)
BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, DWELLING UNITS INCLUDING ATTICS WITH FIXED STAIR ACCESS, STAIRS, FIRE ESCAPES	40	10
GARAGES (PASSENGER CARS ONLY	ý) 50	
ATTICS (NO STORAGE, LESS THAN 5' HEADROOM	) 10	10
ATTICS (WITH STORAGE	) 20	10
ROO	F 20	10 (15 FOR VAULTS)

- NOTES: INDIVIDUAL STAIR TREADS ARE TO BE DESIGNED FOR THE UNIFORMLY DISTRIBUTED LIVE LOAD OF 40 PSF OR A 300 LB. CONCENTRATED LOAD ACTING OVER AN AREA OF 4 SQ. WHICHEVER PRODUCES THE GREATER STRESS.
  - BUILDER TO VERIFY DEAD LOAD DOES NOT EXCEED 10 PSF WHEN HEAVY FLOOR OR ROOF FINISHES SUCH AS TILE OR SLATE ARE UTILIZED. NOTIFY ENGINEERING UNDER THESE CONDITIONS
- 2.02 INTERIOR WALLS: 5 PSF LATERAL.
- 2.03 BASIC WIND DESIGN VELOCITY OF 120 MPH.
- 2.04 SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE)

#### PART 5: CONCRETE AND SLABS ON GRADE

- 5.01 CAST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 6% AIR ENTRAINMENT, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO.

  ALL CONCRETE, INCLUDING CONCRETE FOR FOOTINGS, IS TO BE CAST IN PLACE, TYP UNO.
- 5.03 SLABS ON GRADE, IF ANY, SHALL CONTAIN SYNTHETIC POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER LENGTH 1 1/2", DOSAGE RATE 1 1/2 LBS/CU YD. SLAB TO BE PLACED ON A 6 MIL VAPOR BARRIER ON 2" MIN GRANULAR FILL ON SOIL WITH 90% MIN STANDARD PROCTOR DENSITY. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT IN FNCI OSFD ARFAS

### PART 7: MASONRY

- 7.01 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT, f'M = 1,500 PSI MIN
- 7.02 CLAY MASONRY UNITS SHALL CONFORM TO ASTM C62-17 GRADE SW
- 7.03 MORTAR SHALL BE TYPE S. MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN COMPRESSIVE STRENGTH OF 2000 PSI.
- 7.04 MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF ACI 530
- 7.05 LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951. 6" MIN LAPS FOR CONTINUOUS WALL APPLICATIONS

#### PART 8: BOLTS AND LAG SCREWS

8.01 BOLTS SHALL CONFORM TO ASTM A307 MINIMUM GRADE TYP UNO. INSTALL STANDARD

- STEEL WASHERS (ASTM F844-07a) FOR THE NUT / BOLT HEAD WHEN BOLTING WOOD MEMBERS.
- .03 ANCHOR RODS AND BOLTS SHALL CONFORM TO ASTM F1554-15 GRADE 36 UNO. BENT ANCHOR BOLTS SHALL HAVE A 2" MIN HOOK UNO

#### PART 9: DRIVEN FASTENERS

9.01 NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F 1667-05. NAILS ARE TO BE COMMON WIRE OR BOX

#### PART 10: DIMENSIONAL LUMBER

10.01 SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SPRUCE PINE FIR <u>OR</u> SYP #2 FOR JOISTS, RAFTERS, GIRDERS, BEAMS, STUDS, ETC.

#### PART 11: ENGINEERED LUMBER

- 11.01 LVL OR PSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E= 1.9 X 10E6 PSI, Fb = 2600 PSI, Fv = 285 PSI, Fc = 750 PSI LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E= 1.3 X 10E6 PSI, Fb = 1700 PSI, Fv = 400 PSI, Fc = 680 PSI
- 11.02 LVL OR PSL MEMBERS MAY BE RIPPED FROM DEEPER MEMBERS TO MATCH THE MEMBER DEPTH SPECIFIED IN THE PLANS

#### PART 12: PRESSURE TREATED LUMBER

12.01 LUMBER IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD C-15. ALL OTHER EXPOSED LUMBER SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARD C-2 OR BY ANY METHOD GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY RESISTANT WOOD PER SECTION 19-6(A)

#### PART 14: STUD SUPPORTS FOR BEAMS

- 14.01 STEEL, ENGINEERED LUMBER, AND FLITCH PLATE BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:
- 1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED AND SHALL BE SUPPORTED BY A MINIMUM OF THREE GANGED STUDS, OR A GANGED STUD COLUMN WITH A NUMBER OF STUDS SUCH THAT THE STUD COLUMN IS AT LEAST AS WIDE AS THE TRUE WIDTH OF THE BEAM BEING SUPPORTED, WHICHEVER IS GREATER, TYP UNO. FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM
- 2-BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A MINIMUM OF 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GANGED COLUMN TYP UNO.
- 14.02 DIMENSIONAL LUMBER BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:
- 1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED (LESS 1 1/2" TO ALLOW FOR A CONTINUOUS RIM JOIST WHERE APPLICABLE) AND SHALL BE SUPPORTED BY A GANGED STUD COLUMN THE SAME WIDTH AS THE BEAM TYP UNO. (E.G. A TRIPLE 2X10 IS TO BE SUPPORTED BY (3) STUDS). FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM
- 2-BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A MINIMUM OF 3" ONTO THE WALL AND BE SUPPORTED BY A DBL STUD GANGED COLUMN TYP UNO.
- 14.03 EXTRA JOISTS BEARING ON A STUD WALL PERPENDICULAR TO OR SKEWED RELATIVE TO THE BEAM SHALL BE SUPPORTED BY ONE ADDITIONAL STUD.
- 14.04 STUDS THAT ARE GANGED TO FORM A COLUMN SHALL HAVE ADJACENT STUDS WITHIN THE COLUMN NAILED TOGETHER WITH ONE ROW OF 10d NAILS AT 8" O.C. (TWO ROWS OF 10d NAILS @ 8" O.C., 3" APART, FOR 2X8 OR 2X10 STUDS) ALL COLUMNS SHALL BE CONTINUOUS DOWN TO THE FOUNDATION OR OTHER PROPERLY DESIGNED STRUCTURAL ELEMENT SUCH AS A BEAM. COLUMNS TRANSFERRING LOADS THROUGH FLOOR LEVELS SHALL BE SOLIDLY BLOCKED FOR THE FULL WIDTH OF THE STUD COLUMN WITHIN THE CAVITY FORMED BY THE FLOOR JOISTS.

#### PART 15: NAILING OF MULTI PLY WOOD BEAMS

- 15.01 SOLID SAWN LUMBER JOISTS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM NAILED TOGETHER WITH THREE ROWS OF 10d NAILS @ 16" O.C. FOR 2X10 OR LARGER, TWO ROWS OF 10d NAILS @ 16" O.C. FOR 2X8, ONE ROW OF 10d NAILS @ 16" O.C. FOR 2X6 OR SMALLER. STAGGER ROWS 5" MIN.
- 15.02 LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM FASTENED TOGETHER PER MANUFACTURERS RECOMMENDATIONS, TYP

#### PART 16: WALL FRAMING AND BRACING

16.01 STUD WALLS SHALL CONSIST OF 2X4 STUDS SPACED AT 16" O.C. UNO. STUDS SHALL BE CONTINUOUS FROM SOLE PLATE AT FLOOR TO DOUBLE TOP PLATE AT THE CEILING OR ROOF. NO INTERMEDIATE BANDS OR PLATES SHALL CAUSE DISCONTINUITIES IN A STUD WALL EXCEPT AS REQUIRED FOR DOOR OR WINDOW OPENINGS. THE KING STUDS FOR SUCH OPENINGS SHALL BE CONTINUOUS, TYP UNO.

MAX ALLOWABLE WALL HEIGHTS FOR EXTERIOR STUD WALLS, WITH SOLE PLATE AND DBL TOP PLATE AND 7/16" OSB EXTERIOR BRACING AND ROW OF 2X4 / 2X6 PURLINS AT 8' HEIGHT (AND AT 16' HEIGHT FOR TALL WALLS), TYP UNO:

2X4 @ 16" O.C.: 11'-0" 2X6 @ 16" O.C.: 17'-0" 2X4 @ 12" O.C.: 12'-0" 2X6 @ 12" O.C.: 18'-8" DBL 2X4 @ 16" O.C.: 13'-4" DBL 2X6 @ 16" O.C.: 21'-0"

- 16.02 FOR WALL BRACING THE FOLLOWING SHALL APPLY:
  - -BLOCKING AT UNSUPPORTED PANEL EDGES IS REQUIRED TYP UNO.
    -WALL BRACING IS BY ENGINEERED DESIGN AND NOT PRESCRIPTIVE PER SECTION
  - 602.10 OF THE 2018 NCRC. CONTINUOUS SHEATHING HAS BEEN PROVIDED, ALONG WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10 OF THE 2018 NCRC HAS BEEN MET AND EXCEEDED.
  - -BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH TABLE 602.3(1) TO PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NCRBC R602.3.5 AND R802.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS.

    -MAY SUBSTITUTE WSP FOR GB
  - -SINGLE JOIST, CONTINUOUS RIM JOIST, OR BLOCKING OF EQUAL DEPTH IS REQUIRED ABOVE AND BELOW ALL BRACED WALLS. NAIL BLOCKING ABOVE WALL TO TOP PLATE WITH 16d TOE NAILS @ 6" O.C. NAIL SOLE PLATE OF BRACED WALL TO BLOCKING BELOW WITH (3) 16d NAILS @ 16" O.C. BLOCKING AT HORIZONTAL JOINTS IN BRACED WALL LINES ONLY REQUIRED AT SHADED WALLS, UNO.

### PART 17: KING STUDS

17.01 KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:

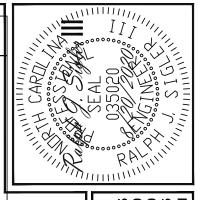
			NUMBEF	R OF KIN	G STUDS	,
MAX OPENING	3 WIDTH	5′-0″	9'-0"	13′-0″	17′-0″	21′-0″
	2X4	1	2	3	4	5
STUD SIZE	2X6	1	1	2	2	2
	2X8	1	1	1	1	2

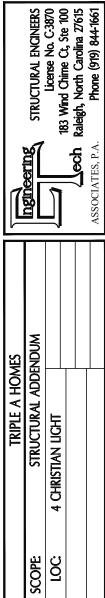
### PART 18: SUBSTITUTIONS

18.01 MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVIATIONS REQUIRE THE WRITTEN AUTHORIZATION OF THE DESIGNERS. UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

## PART 19: OWNERSHIP OF STRUCTURAL DESIGN

19.01 THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY
OF ENGINEERING TECH ASSOCIATES (ETA). THESE PLANS
ARE FOR THE ONE TIME USE AT THE LOCATION INDICATED
AND FOR THE CLIENT LISTED. ETA ASSUMES NO LIABILITY
FOR THESE PLANS IF THEY ARE REPRODUCED, IN WHOLE OR
IN PART, FOR CONSTRUCTION AT ANY OTHER LOCATION
WITHOUT WRITTEN PERMISSION FROM ETA





ENG: RJS/CMC DATE: 8/20/2020

PLAN LITTLE G

PROJECT NO. 20-28-029

SHEET NO.

# **DECK SPECIFICATIONS**

- A DECK IS AN EXPOSED EXTERIOR WOOD FLOOR STRUCTURE WHICH MAY BE ATTACHED TO A STRUCTURE OR BE FREE STANDING. ROOFED PORCHES, OPEN OR SCREENED IN, MAY BE CONSTRUCTED USING THESE PROVISIONS.
- 2. SUPPORT POSTS SHALL BE SUPPORTED BY A FOOTING.
- WHEN ATTACHED TO A STRUCTURE, THE STRUCTURE TO WHICH ATTACHED SHALL HAVE A TREATED WOOD BAND FOR THE LENGTH OF THE DECK, OR CORROSION RESISTANT FLASHING 9. MAXIMUM HEIGHT OF DECK SUPPORT POSTS IS AS FOLLOWS: SHALL BE USED TO PREVENT MOISTURE FROM COMING IN CONTACT WITH THE UNTREATED FRAMING OF THE STRUCTURE. THE DECK BAND AND THE STRUCTURE BAND SHALL BE CONSTRUCTED IN CONTACT WITH EACH OTHER EXCEPT AT BRICK VENEER AND WHERE PLYWOOD SHEATHING IS REQUIRED AND PROPERLY FLASHED. SIDING SHALL NOT BE INSTALLED BETWEEN THE STRUCTURE AND THE DECK BAND. IF ATTACHED TO A BRICK STRUCTURE, NEITHER FLASHING NOR A TREATED BAND FOR THE BRICK STRUCTURE IS REQUIRED. IN ADDITION, THE TREATED DECK BAND SHALL BE CONSTRUCTED IN CONTACT
- WHEN THE DECK IS SUPPORTED AT THE STRUCTURE BY ATTACHING THE DECK TO THE STRUCTURE, THE FOLLOWING ATTACHMENT SCHEDULES SHALL APPLY FOR ATTACHING THE DECK BAND TO THE STRUCTURE:
  - A. ALL STRUCTURES EXCEPT BRICK STRUCTURES

	JOIST I	LENGTH
	UP TO 8' MAX.	UP TO 16' MAX.
REQUIRED ASTENERS	ONE- 5/8" Ø BOLT @ 42" O.C. AND (2) ROWS OF 12d NAILS @ 8" O.C. OR TWO ROWS OF SIMPSON SDWS22400DB @ d = 32" O.C. STAGGERED	(3) ROWS OF 12d NAILS @ 6" O.C. OF

A . BRICK VENEER STRUCTURES

	JOIST I	LENGTH
	UP TO 8' MAX.	UP TO 16' MAX.
REQUIRED FASTENERS	ONE- 5/8" Ø BOLT @ 28" O.C.	ONE- 5/8" Ø BOLT @ 16" O.C.

- 5. IF THE DECK BAND IS SUPPORTED BY A 1/2" MINIMUM MASONRY LEDGE ALONG THE FOUNDATION WALL, 5/8" Ø BOLTS SPACED @ 48" O.C. MAY BE USED FOR SUPPORT.
- 6. OTHER MEANS OF SUPPORT, SUCH AS JOIST HANGERS, MAY BE USED TO CONNECT DECK JOISTS TO A TREATED STRUCTURE BAND
- 7. GIRDERS SHALL BEAR DIRECTLY ON POSTS OR BE BE CONNECTED TO THE SIDES OF POSTS WITH 2- 5/8" Ø BOLTS
- 8. FLOOR DECKING SHALL BE NO. 2 GRADE TREATED SOUTHERN PINE OR EQUIVALENT. THE MINIMUM FLOOR DECKING THICKNESS SHALL BE AS FOLLOWS:

JOIST SPAN	DECKING
12" O.C. 16" O.C.	1" S4S 1" T&G
24" O.C.	1 1/4" S4S
32" O.C.	2" S4S

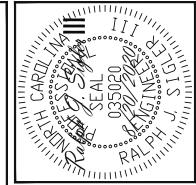
POST SIZE	MAX POST HEIGHT
4X4	8'
6X6	20'
ENGINEERED	20' +

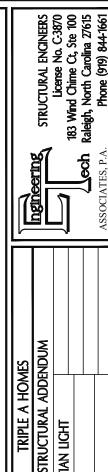
NOTES: 1) THIS TABLE IS BASED ON NO. 2 TREATED SOUTHERN PINE POSTS.

- 2) THIS TABLE IS BASED ON A MAXIMUM TRIBUTARY AREA OF 128 SQ. FT.
- 3) POST HEIGHT IS FROM TOP OF FOOTING TO BOTTOM OF GIRDER.
- DECKS SHALL BE BRACED TO PROVIDE LATERAL STABILITY BY ONE OF THE FOLLOWING METHODS:
  - A. WHEN THE DECK FLOOR HEIGHT IS LESS THAN 4'-0" AND THE DECK IS ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION 4, LATERAL BRACING IS NOT REQUIRED.
  - B. 4X4 WOOD KNEE BRACES MAY BE PROVIDED ON EACH COLUMN IN BOTH DIRECTIONS. THE KNEE BRACES SHALL ATTACH TO EACH POST AT A POINT NOT LESS THAN 1/3 OF THE POST LENGTH FROM THE TOP OF THE POST, AND THE BRACES SHALL BE ANGLED BETWEEN 45° AND 60° FROM THE HORIZONTAL, KNEE BRACES SHALL BE ATTACHED AT THE ENDS TO THE GIRDER AND THE POST WITH ONE - 5/8" BOLT
  - C. FOR FREE STANDING DECKS WITHOUT KNEE BRACES OR DIAGONAL BRACING, LATERAL STABILITY MAY BE PROVIDED BY EMBEDDING THE POSTS IN CONCRETE IN ACCORDANCE WITH THE FOLLOWING:

POST SIZE	TRIBUT. AREA	POST HEIGHT	EMB. DEPTH	CONC. DIAM.
4X4	48 SQ. FT.	4'-0"	2'-6"	1'-0"
6X6	120 SQ. FT.	6'-0"	3'-6"	1'-8"

- D. 2X6 DIAGONAL VERTICAL CROSS BRACING SHALL BE PROVIDED IN TWO PERPENDICULAR DIRECTIONS FOR FREE STANDING DECKS OR PARALLEL TO THE STRUCTURE AT THE EXTERIOR COLUMN LINE FOR ATTACHED DECKS. THE BRACES SHALL BE ATTACHED TO THE POSTS WITH ONE - 5/8" Ø BOLT AT EACH END OF THE BRACE.
- NOTES: 1) ALL NAILS AND BOLTS ARE TO BE HOT DIPPED GALVANIZED.
  - 2) MINIMUM EDGE DISTANCE FOR BOLTS IS 2 1/2".
  - 3) NAILS MUST PENETRATE THE SUPPORTING STRUCTURE BAND A MINIMUM OF 1 1/2".





ENG:	RJS/CMC
DATE	8/20/2020

CHRISTIAN

**PLAN** LITTLE G

PROJECT NO. 20-28-029

SHEET NO. SD5