



FRAMING NOTES
FRAMERS TO REFER TO TRUSS PACKAGES FOR TRUSS LAYOUTS
AND DIMENSIONS. THE PLANS SHOWN HERE ARE FOR REFERENCE
ONLY. PLEASE CONTACT DESIGNER WITH ANY CONFLICTS.

DRAWN JES/TW
CHECKED
DATE 08/10/22
PROJ. NO.
PRINTED

REVISION DATE

3 03/07/23

4 05/24/23

5 JSC 01/31/24

6 (jes) 03/4/24

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 SQUARE FOOTAGE INFORMATION

 FIRST FLOOR.
 .847

 SECOND FLOOR.
 .1158

 GARAGE.
 .402

 FRONT PORCH.
 .72

 PATIO.
 .138

 TOTAL HEATED.
 .2002

 OPT SUNROOM.
 .+138

 OPT SUNROOM PATIO.
 .115

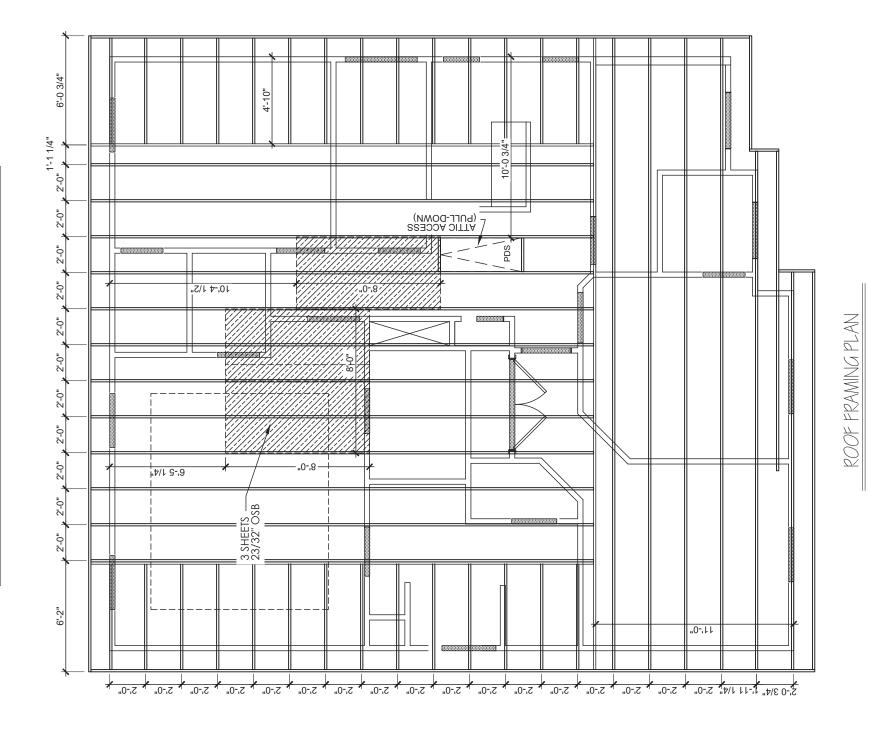
GARAGE LEFT

DRAWNG TITLE FLOOR FRAMING

NOTE: \*\*HEEL TRUSSES 6" WITH FULL BRICK VENEER CONDITIONS

FRAMERS TO REFER TO TRUSS PACKAGES FOR TRUSS LAYOUTS AND DIMENSIONS. THE PLANS SHOWN HERE ARE FOR REFERENCE ONLY. PLEASE CONTACT DESIGNER WITH ANY CONFLICTS. FRAMING NOTES

TRUSS MANUFACTURER
PLEASE ENSURE ALL CHASE LOCATIONS, ATTIC ACCESS, ATTIC PLATFORMS,
AND PLUMBING DROP LOCATIONS ARE ACCOUNTED FOR AND NOTED ON ALL
CORRESPONDING SHEETS OF YOUR TRUSS PACKAGES.
PLEASE CONTACT DESIGNER WITH ANY CONFLICTS.





**McCLEAN II A** 

JES/TW DRAWN CHECKED 08/10/22 DATE PROJ. NO. PRINTED

4 5 JSC 05/24/23 01/31/24 6 (jes) 03/4/24

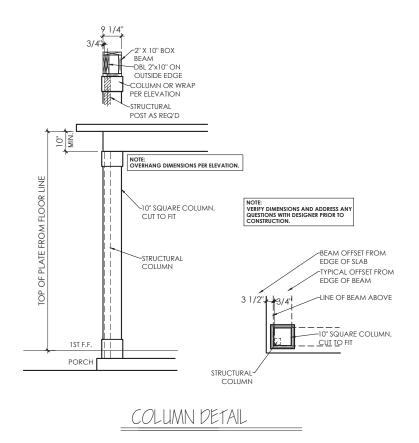
DESCRIPTION OPT SUNROOM TUBS/SHOWERS FIREPLACE Lighting / Vanity update DOCUMENTS AND THE INFORMATION CONTAINED THEREIN ARE CONFIDENTIAL AND PROPRIETARY TO GREAT SOUTHERN HOMES AND ARE "TRADE SECRETS" AS DEFINED BY S.C. CODE ANN.§39-8-20 (5)(a)(b)."

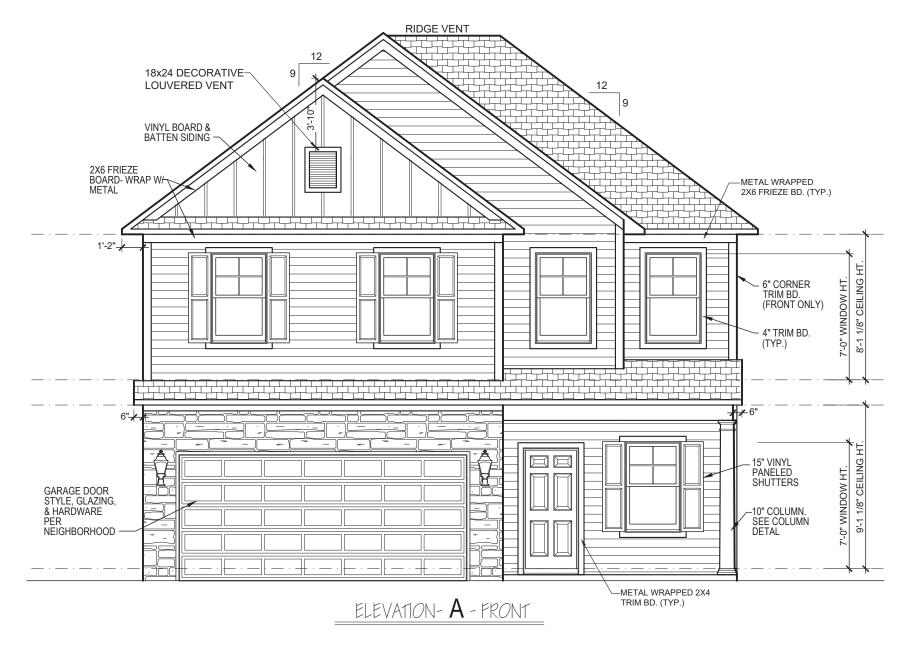
GREATSOUTHERN HOMES CAN NOT GUARANTEE AGAINST ERRORS AND OMISSIONS EKRORS AND OMISSIONS
WITHIN THESE PLANS. THE
CONTRACTOR MUST VERIFY
ALL DIMINSIONS AND MAY
ADJUST THE CONSTRUCTION
ACCORDINGLY TO STANDARDS

FIRST FLOOR..... SECOND FLOOR. GARAGE FRONT PORCH. ....138 ....2002 ....+138 TOTAL HEATED.... OPT SUNROOM.... OPT SUNROOM PATIO.

**GARAGE LEFT** 

DRAWING TITLE ROOF FRAMING







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 SQUARE FOOTAGE INFORMATION

 FIRST FLOOR
 847

 SECOND FLOOR
 1158

 GARAGE
 402

 FRONT PORCH
 72

 PATIO
 138

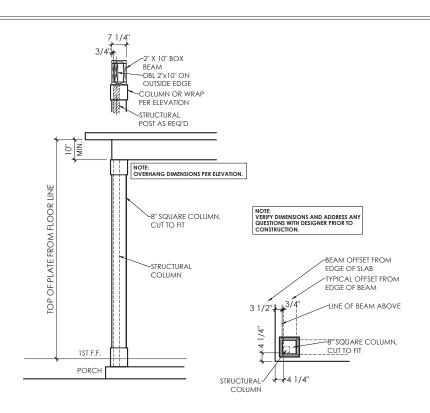
 TOTAL HEATED
 2002

 OPT SUNROOM
 +138

 OPT SUNROOM PATIO
 .115

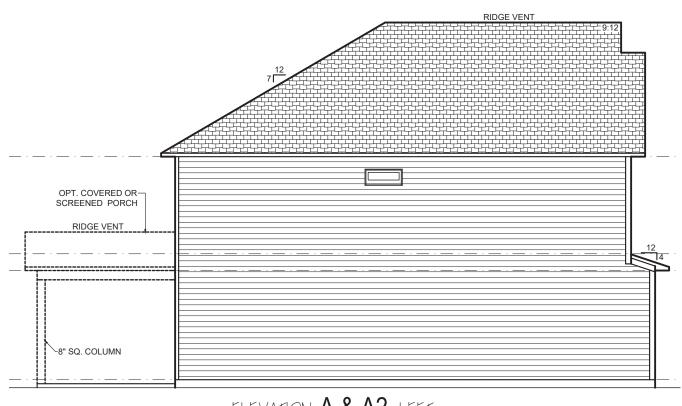
GARAGE LEFT

DRAWING TITLE ELEVATION A

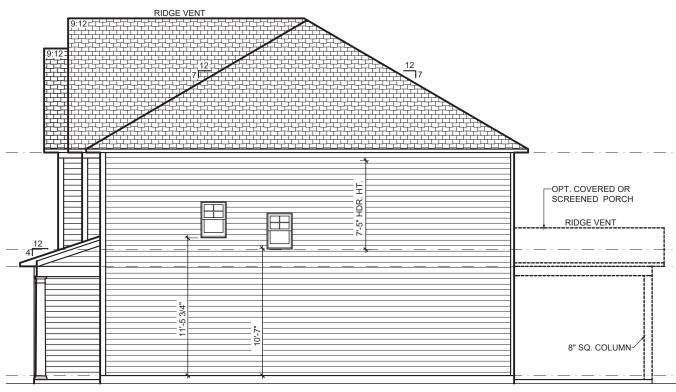


# OPT COVERED PATIO COLUMN DETAIL





ELEVATION-A & A2- LEFT



ELEVATION-A & A2- RIGHT



# **McCLEAN II A**

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3	03/07/23
4	05/24/23
5 JSC	01/31/24
6 (jes)	03/4/24

	DESCRIPTION
	OPT SUNROOM
	TUBS/SHOWERS
	FIREPLACE
_	Lighting / Vanity update

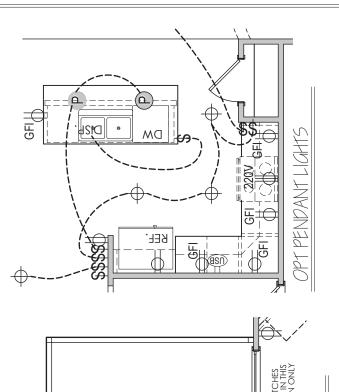
"THESE PLANS, DRAWINGS AND/OR	G			
DOCUMENTS AND THE INFORMATION				
CONTAINED THEREIN ARE CONFIDENTIAL				
AND PROPRIETARY TO GREAT SOUTHERN				
HOMES AND ARE "TRADE SECRETS" AS				
DEFINED BY S.C. CODE ANN.§39-8-20				
(5)(a)(b)." COPYRIGHT © 2024	A			

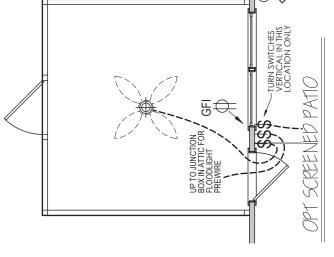
GREATSOUTHERN HOMES CAN	I	
NOT GUARANTEE AGAINST	I	
ERRORS AND OMISSIONS	I	
WITHIN THESE PLANS. THE	I	
CONTRACTOR MUST VERIFY	I	
ALL DIMINSIONS AND MAY	I	
ADJUST THE CONSTRUCTION	I	
ACCORDINGLY TO STANDARDS	I	

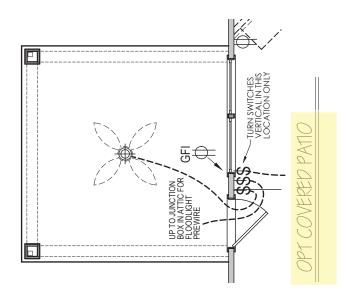
	SQUARE FOOTAGE IN	FORMATION
	FIRST FLOOR	
	SECOND FLOOR	1158
	GARAGE	402
	FRONT PORCH	72
	PATIO	138
	TOTAL HEATED	2002
П	OPT SUNROOM	+138
	OPT SUNROOM PATIC	)115

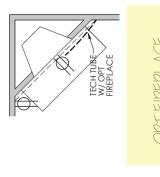


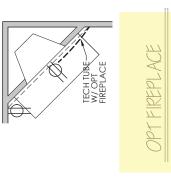
DRAWING TITLE ELEVATION A & A2

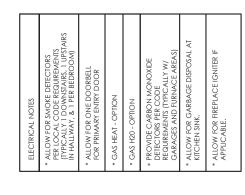


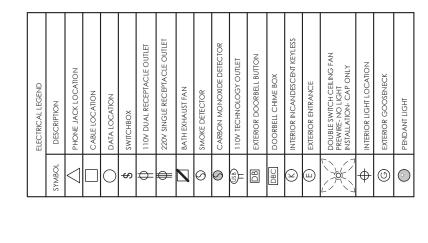


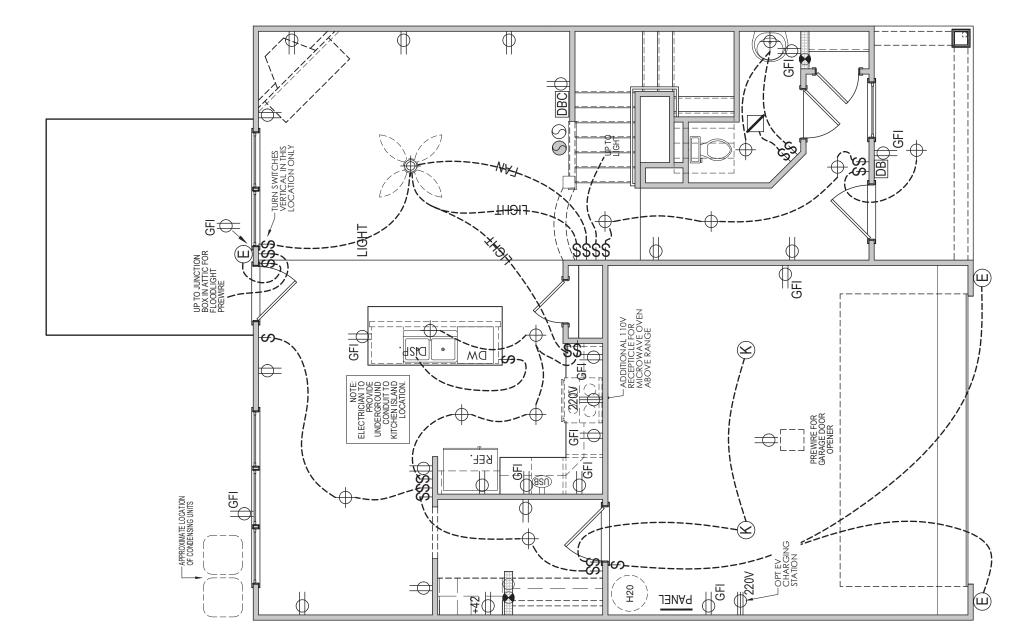














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4 5 JSC 6 (jes)

05/24/23 01/31/24 03/4/24

DESCRIPTION OPT SUNROOM TUBS/SHOWERS FIREPLACE Lighting / Vanity update

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FIRST FLOOR..... SECOND FLOOR... GARAGE..... FRONT PORCH.... PATIO.....
TOTAL HEATED....
OPT SUNROOM...
OPT SUNROOM PATIO...

**GARAGE LEFT** 

DRAWING TITLE ELEC. PLANS

FIRST FLOOR ELECTRICAL PLAN

ELECTRICAL NOTES

\* ALLOW FOR SMOKE DETECTORS
PER LOCAL CODE REQUIREMENTS
[TYPICALLY I DOWNSTAIRS, I UPSTAIRS
ITMCALLY I DOWNSTAIRS, I UPSTAIRS
IN HALLWAY, & I PER BEDROOM)

\* ALLOW FOR ONE DOORBELL
FOR PRIMARY ENTRY DOOR

\* GAS HEAT - OPTION

\* GAS HEAT STRICK ALLY W/

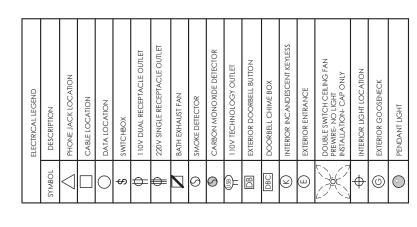
GARAGES AND FURNACE AREAS)

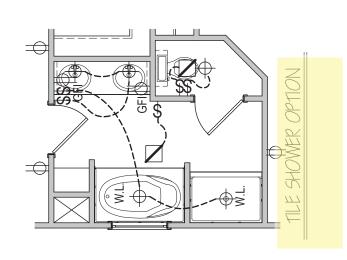
\* ALLOW FOR GARBAGE DISPOSAL AT

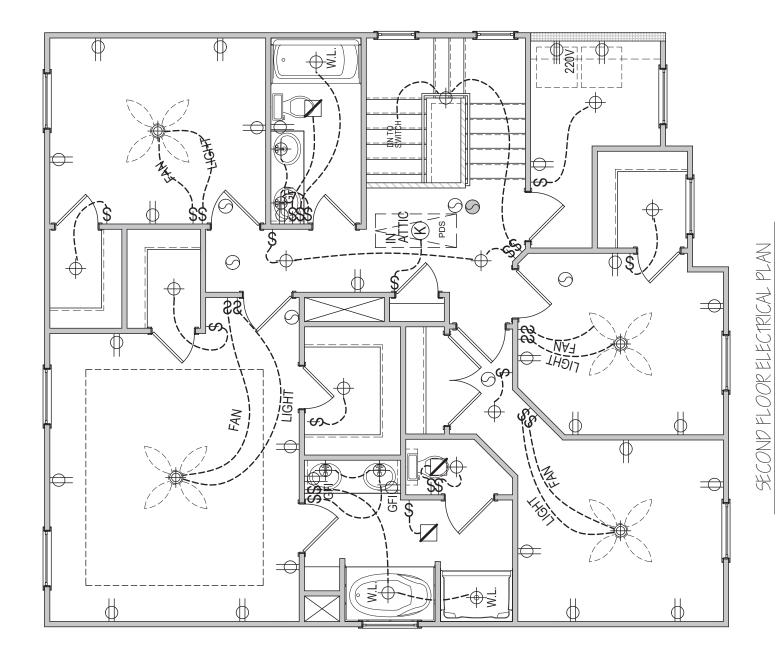
KITCHEN SINK.

\* ALLOW FOR FIREPLACE IGNITER IF

APPLICABLE.







GREAT HOMES
PRO +

McCLEAN II A

DRAWN JEST CHECKED DATE 08/10 PROJ. NO.

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vision REVISION DATE
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 SQUARE FOOTAGE INFORMATION

 FIRST FLOOR
 847

 SECOND FLOOR
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 GARAGE
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 FRONT PORCH
 72

 PATIO
 138

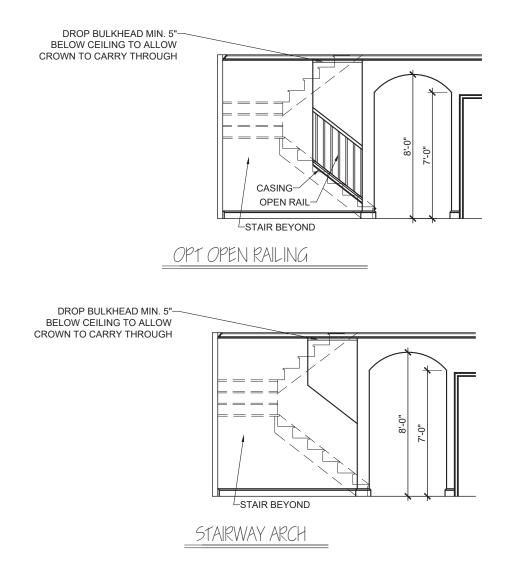
 TOTAL HEATED
 2002

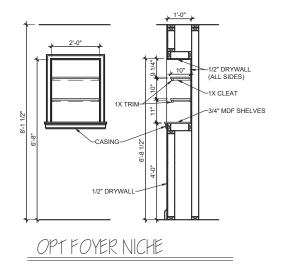
 OPT SUNROOM
 +138

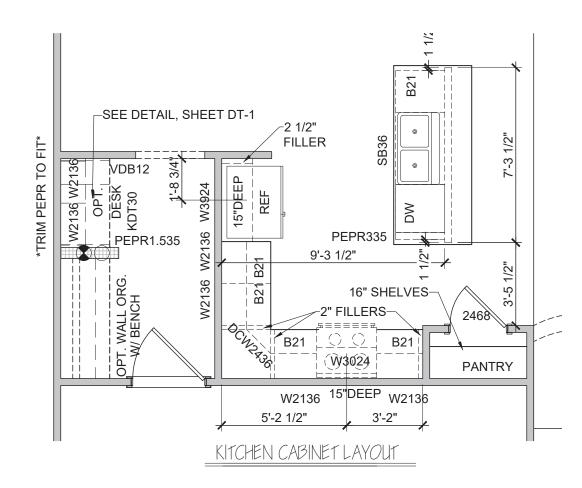
 OPT SUNROOM PATIO
 115

GARAGE LEFT

DRAWING TITLE ELEC. PLANS









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FIREPLACE

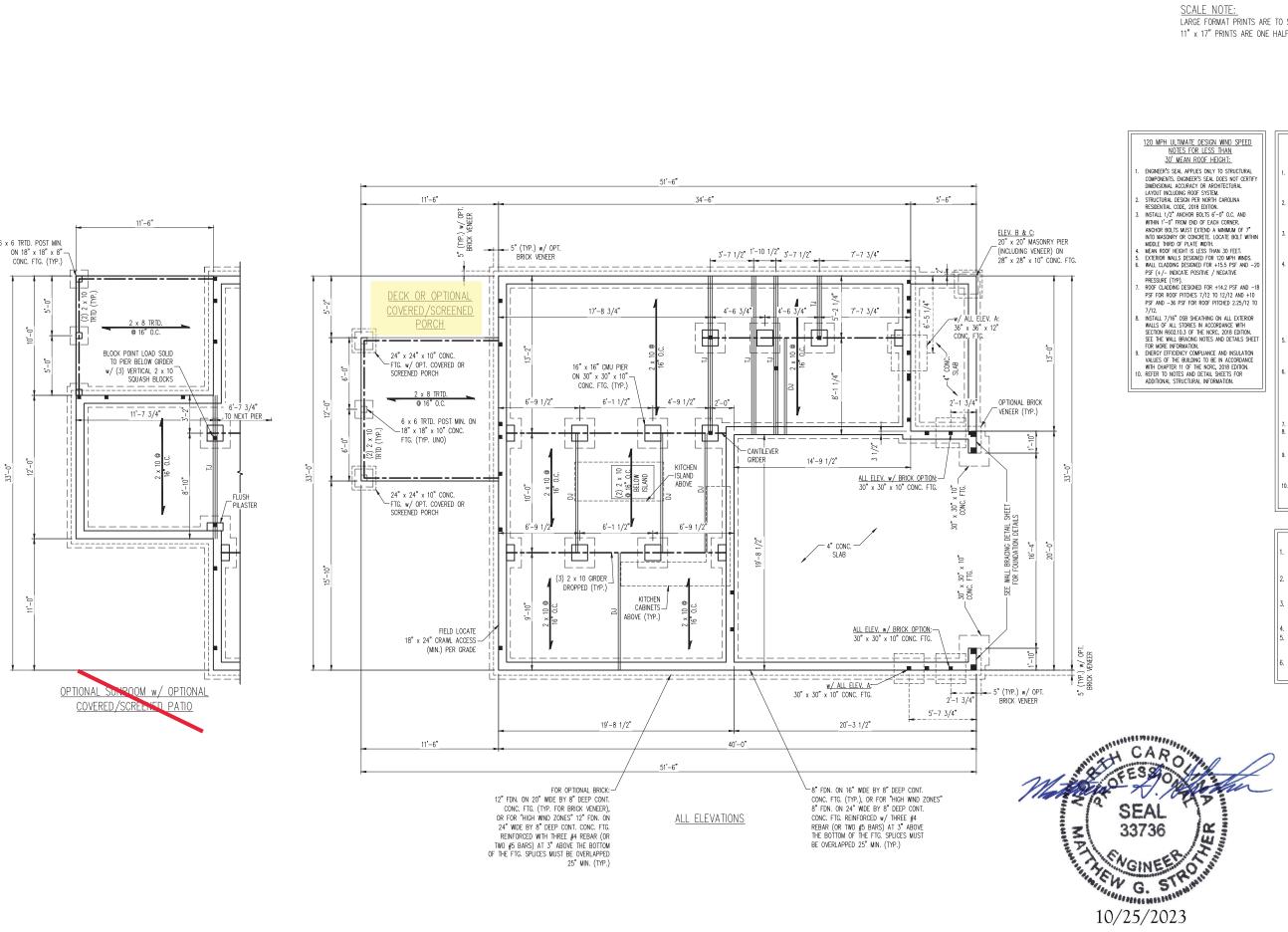
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FIRST FLOOR..... SECOND FLOOR. GARAGE..... FRONT PORCH... PATIO.....
TOTAL HEATED....
OPT SUNROOM...
OPT SUNROOM PATIO...

**GARAGE LEFT** 

DRAWING TITLE DETAILS DRAWING NO.



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

# 150 MPH ULTIMATE DESIGN WIND SPEED 30' MEAN ROOF HEIGHT:

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL ENGINEER'S SEAL APPLIES ONLY I O STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. STRUCTURAL DESIGN PER NORTH CAROLINA
- RESIDENTIAL CODE, 2018 EDITION WITH SPECIAL CONSIDERATION TO CHAPTER 45 ("HIGH WIND ZONES" FOR 150 MPH WINDS).
  BUILDER IS TO PROVIDE FRAMING CONNECTIONS
  AS REQUIRED BY CHAPTER 45 ("HIGH WIND
- AS REQUIRED BY CHAPTER 45 (HIGH WIND ZONES" FOR 150 MPH WINDS) OF THE NORTH CARCULIA RESIDENTIAL CODE, 2018 EDITION. FOUNDATION ANCHORAGE TO COMPLY WITH SECTION 4504 OF THE NORTH CARCULIA RESIDENTIAL CODE, 2018 EDITION. INSTALL 1/2" ANCHOR BOLTS @ 6'-0" O.C. w/ NUT AND 2" 2" x 1/8" PLATE WASHER AND WITHIN 1"-0"
  FROM END OF EACH CORNER WITH MIN. (2)
  ANCHORS PER PLATE SECTION. ANCHOR BOLTS
  MUST BE CONTINUOUS FROM THE FOOTING TO A DOUBLE 2 x 6 SILL PLATE. GROUT CELLS CONTAINING ANCHOR BOLTS SOLID.
- ALL EXTERIOR WALLS TO BE SHEATHED WITH ALL EXTENSION WALLS TO BE SHEATHED WITH 7/16" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG PANEL EDGES AND 6" O.C. IN THE FIELD. SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND
- OUDDIE: 104 PEALES, BANDS, JUSTIS, AND
  GRIPERS WITH (2) ROWS OF 8d NAILS STAGGERED
  AT 3" O.C. PANELS SHALL EXTEND 12" BEYOND
  CONSTRUCTION JOINTS AND SHALL OVERLAP
  GRIPERS AND DOUBLE SILL PLATES THEIR FULL
- MEAN ROOF HEIGHT IS LESS THAN 30 FEET. WALL CLADDING DESIGNED FOR +24.3 PSF AND

  -32 PSF (+/- INDICATE POSITIVE / NEGATIVE
  PRESSURE (TYP).

  ROOF CLADDING DESIGNED FOR +22.2 PSF AND
- -28 PSF FOR ROOF PITCHES 7/12 TO 12/12 AND +14 PSF AND -57 PSF FOR ROOF PITCHED
- 2.25/12 TO 7/12.
  ENERGY EFFICIENCY COMPLIANCE AND INSULATION
  VALUES OF THE BUILDING TO BE IN ACCORDANCE
  WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

# STRUCTURAL NOTES: ALL FRAMING LUMBER TO BE #2 SPF

- (UNO). ALL TREATED LUMBER TO BE #2 SYP (UNO.)
  PROVIDE A DOUBLE OR TRIPLE JOIST
- UNDER ALL WALLS PARALLEL TO FLOOR
  JOISTS WHERE NOTED ON THE PLANS. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR
- FOUNDATION. SHADED PIERS TO BE FILLED SOLID.
- INSTALL LADDER WIRE @ 16" O.C. TO SECURE MULTIPLE WYTHE FOUNDATION
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

	LEGEND
CONT	CONTINUOUS
ΧJ	EXTRA JOIST
DJ	DOUBLE JOIST
TJ	TRIPLE JOIST
EA	EACH
FDN	FOUNDATION
FTG	FOOTING
OC.	ON CENTER
SPF	SPRUCE PINE FIR
SYP	SOUTHERN YELLOW PINE
TRTD	PRESSURE TREATED
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

ALE: 1/4" = 1'-0" RAWN BY: GREAT S NEERED BY: WFB

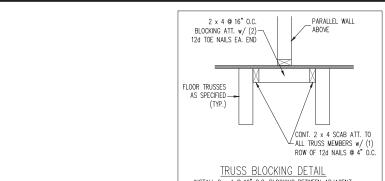
S-1a CRAWL FOUNDATION PLAN

OMI I 

ON CONTROL OF CONTROL

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McCLEAN II - N.C. GREAT SOUTHERN HOMES



BRACED WALL DESIGN NOTES:

BRACED WALL DESIGN PER SECTION R602.10.5 "WALL BRACING BY ENGINEERED DESIGN" OF THE NCRC 2018 EDITION USING BRACING ALTERNATIVE MATERIALS AND METHODS THAT COMPLY WITH ACCEPTED

ALTERNATIVE MATERIALS AND WEITHOUS THAT COMPLET WITH ACCEPTED ENGINEERING PRACTICE. BRACED WALL DESIGN IS NOT PRESCRIETIVE. 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

BRICK SUPPORT NOTES: LINTEL SCHEDULE FOR BRICK/NATURAL STONE SUPPORT

SIZE OF LINTEL

L 3 1/2 x 3 1/2 x 1/4

L 5 x 3 1/2 x 5/16 LLV

L 6 x 4 x 5/16 LLV

LENGTH (FT.)

UP TO 4 FT.

4-8

8 AND GREATER

LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO). SEE ARCH DWGS. FOR SIZE AND LOCATION OF OPENINGS.

(LLV) = LONG LEG VERTICAL LENGTH = CLEAR OPENING

. EMBED ALL ANGLE IRONS MIN. 4" EACH SIDE INTO VENEER TO PROVIDE BEARING. FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, ATTACH STEEL ANGLE TO HEADER W/ 1/2" LAG SCREWS @ 12" O.C. STAGGERED.

FOR ALL BRICK SUPPORT @ ROOF LINES, FASTEN (2) 2 x 10 BLOCKING BETWEEN STUDS w/ (4) 12d NAILS PER PLY. FASTEN A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING w/ (2) 1/2" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION R703.8.2.1 OF THE 2018 NCRC FOR ADDITIONAL BRICK SUPPORT INFORMATION... PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN

SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE ON - 100 PC 27609

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### 150 MPH ULTIMATE DESIGN WIND SPEED STRUCTURAL NOTES

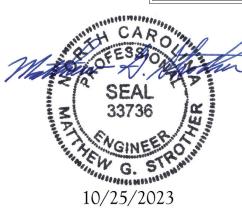
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH CHAPTER 45 OF THE
- ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
- INSTALL 2 x 4 @ 16" O.C. BLOCKING BETWEEN ADJACENT TRUSSES UNDER WALLS PARALLEL TO FLOOR TRUSSES WHERE WALL LENGTH EXCEEDS 1/3 OF TRUSS SPAN (SEE DETAIL THIS SHEET). TRUSS DESIGNER TO DESIGN ADJACENT TRUSSÈS FOR ADDITIONAL LOADING FROM WALLS.
- EXTERIOR WINDOW AND DOOR HEADERS TO BE SUPPORTED w / (1) JACK STUD AND (2) KING STUDS EA. END (UNO.). SEE TABLE THIS SHEET 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 1000 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO.)
  FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO
- SLAB w/ (2) METAL ANGLES USING 2" CONC. SCREWS. FASTEN ANGLES TO COLUMNS w/ 1/4" THROUGH BOLTS w/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN.
- 9. ALL EXTERIOR WALLS TO BE SHEATHED WITH 7/16" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG PANEL EDGES AND 6" O.C. IN THE FIELD.

  10. SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES,
- BANDS, JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED A 3" O.C. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH.
- 1. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

#### 120 MPH ULTIMATE DESIGN WIND SPEED STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO)
- INSTALL 2 x 4 @ 16" O.C. BLOCKING BETWEEN ADJACENT TRUSSES UNDER WALLS PARALLEL TO FLOOR TRUSSES WHERE WALL LENGTH EXCEEDS 1/3 OF TRUSS SPAN (SEE DETAIL THIS SHEET). TRUSS DESIGNER TO DESIGN ADJACENT TRUSSES FOR ADDITIONAL LOADING FROM WALLS.
- (1) KING STUD EA. END (UNO.). SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.
- OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)
- 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 700
- 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

ELEVATION A



EXTRA TRUSS
EACH
NUMBER OF STUDS
DOUBLE STUD POCKET
TRIPLE STUD POCKET
ON CENTER
SPRUCE PINE FIR
SOUTHERN YELLOW PINE
PRESSURE TREATED
TYPICAL
UNLESS NOTED OTHERWISE

LEGEND

CONT CONTINUOUS

RAWN BY: GREAT S NEERED BY: WFB

ATE: OCTOBER 24, 202

ALE: 1/4" = 1'-0"

S-2a SECOND FLOOR FRAMING PLAN

INSTALL 2 x 4 @ 16" O.C. BLOCKING BETWEEN ADJACENT MINIMUM NUMBER OF FULL HEIGHT KING WIND ZONES, BRACED WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE TRUSSES UNDER WALLS PARALLEL TO FLOOR TRUSSES WHERE WALL LENGTH EXCEEDS 1/3 OF TRUSS SPAN. WITH CHAPTER 45 OF THE NCRC 2018 EDITION.
SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS IN 150 MPH WIND ZONES TRUSS DESIGNER TO DESIGN ADJACENT TRUSSES FOR ADDITIONAL LOADING FROM WALLS. INFORMATION HEADER SPAN MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS) (FEET) 2 x 6 @ 16" O.C. BALLOON FRAMED WALL OR IN HIGH WIND ZONES: > 3' TO 6 2 x 6 @ 12" O.C. BALLOON FRAMED WALL 4 x 4 TRTD, POST > 6' TO 9' > 9' TO 12' 4 x 4 TRTD. POST MIN. IN CORNER MIN. (TYP.) (2) 2 x 10 (TYP.) > 12' TO 15' OPTIONAL COVERED . 8 SCREENED PATIO ROOF TRUSSES GIRDER TRUSS ENG. BY OTHERS EXTEND ROOF TRUSSES ENG. BY OTHERS (3) 2 x 4 w/ OPTIONAL COVERED/SCREENED PATIO -(2) 1 3/4" x 9 1/4" LVL / ELEV. A & C: XT CANTILEVERED -ELEV. A & C: (2) JACKS AND (4) KING STUDS (3) JACKS -FASTENED w/ SIMPSON CS16 STRAPS @ 24" 0.C (2) JACKS FNG BY OTHERS ROOF TRUSSES NGINEERED BY OTHERS CANT ENGINEERED BY OTHERS (1) 1 3/4" x 14" | SI RIM ATTACH CANTIEVERED TRUSSES w/ INVERTED HANGERS (2) 2 x 12 (TYP.) TABLE R602.7.5 MINIMUM NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS 4 x 4 TRTD POST (3) 2 x 4 — MIN. (TYP.) IN 120 MPH WIND ZONES —(3) JACKS HEADER SPAN MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS) (FEET) 14" FLOOR TRUSSES ENGINEERED E (2) 2 x 10 7/8" | OTHERS @ 19.2" O.C. MAX CONT. > 6' TO 9' / ELEV. A & C. (2) 1 3/ / ELEV. B: (2) 1 3/4" x OR w/ BRICK ABOVE (4) 25 P. 25 > 12' TO 15' (3) 1 EUSH OPTIONAL SUNROOM w/ OPTIONAL COVERED/SCREENED PATIO (6) 2 x 4-VENEER (TYP.)

McCLEAN II - N.C. GREAT SOUTHERN HOMES

WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS w/ SIMPSON ABU44 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO.) FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO

INSTALLED PRIOR TO SETTING COLUMN. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL

SCALE NOTE: LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE NOTE: w/ ELEV C2 & C4, \_INSTALL 4" CMU w/ ADHERED STONE VENEER WHERE BRICK TRANSITIONS TO STONE SKIRT 4 x 4 TRTD. POST 4 x 4 TRTD. POST MIN. (TYP.) ROOF TRUSSES ENG. BY OTHERS (2) 1 3/4" x 9 1/4" LVL w/ (2) JACKS EA. END CANTILEVERE ROOF TRUSSES ENGINEERED BY OTHERS ROOF TRUSSES ENGINEERED BY OTHERS (1) 1 3/4" x 14" LSL RIM. ATTACH CANTIEVERED TRUSSES — w/ INVERTED HANGERS. (1) 1 3/4" x 14" LSL RIM. ATTACH CANTIEVERED TRUSSES— w/ INVERTED HANGERS. ROOF TRUSSES ENG. BY OTHERS (5) 2 x 4 (5) 2 x 4 -FLOOR ABOVE BUILT INTO ROOF TRUSSES
ENG. BY OTHERS
(TYP.) (GE PORTAL FRAME, SEE ME PF WALL BRACING DETAIL LVL w/ (5) 2 x 4 FLOOR TRUSSES C 2.0E 3100 Fb LVL 3/4" × 20" L I W/ TOP OF F 3/4" × 24" ; ID. SET TOP FI ROOF TRUSSES (3) 1 (3) 1 (3) 1 (3) 1 FUSH (3) 1 ROOF TRUSSES

ENGINEERED
BY OTHERS (5) 2 x 4 -(5) 2 x 4-OPTIONAL BRICK OPTIONAL BRICK VENEER (TYP.) VENEER (TYP.) ELEVATION C <u>ELEVATION</u> B

McCLEAN II - N.C. GREAT SOUTHERN HOMES

J.S. THOMPSON
ENGINEERING, INC.
333 EAST SIX PORKS ROAD, SUITE 100 RALEGH, NO. 27609

DATE: OCTOBER 24, SCALE: 1/4" = 1'-0"

> DRAWN BY: GREAT SOU HOMES

ENGINEERED BY: WFB

S-2b second floor framing plan

10/25/2023

W G. 51

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

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 COOLFR 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.

# MINIMUM NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS IN 150 MPH WIND ZONES

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

### 150 MPH ULTIMATE DESIGN WIND SPEED STRUCTURAL NOTES

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH CHAPTER 45 OF THE 2018 NCRC
- 2. ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE 3. ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO). 4. EXTERIOR WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK

STUD AND (2) KING STUDS EA. END (UNO.). SEE TABLE THIS SHEET 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 EXTERIOR WALLS TO BE SHEATHED WITH 7/16" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG PANEL EDGES AND 6" O.C. IN THE FIELD.
- SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH.
- 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

IN 120 MPH WIND ZONES			
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		

### 120 MPH ULTIMATE DESIGN WIND SPEED STRUCTURAL NOTES:

ALL FRAMING LUMBER TO BE #2 SPF (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 R602.7.5 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 INFORMATION

LINTEL SCHEDULE FOR BRICK/NATURAL STONE SUPPORT

Britishy to the Grone Golf Gitt		
LENGTH (FT.)	SIZE OF LINTEL	
UP TO 4 FT.	L 3 1/2 x 3 1/2 x 1/4	
4-8	L 5 x 3 1/2 x 5/16 LLV	
8 AND GREATER	L 6 x 4 x 5/16 LLV	

BRICK SUPPORT NOTES:

- LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO). SEE ARCH DWGS. FOR SIZE AND LOCATION OF OPENINGS. 2. (LLV) = LONG LEG VERTICAL 3. LENGTH = CLEAR OPENING
- . EMBED ALL ANGLE IRONS MIN. 4" EACH SIDE INTO VENEER TO PROVIDE BEARING. 5. FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, ATTACH STEEL ANGLE TO HEADER W/ 1/2" LAG SCREWS @ 12" O.C. STAGGERED.
- 6. FOR ALL BRICK SUPPORT @ ROOF LINES, FASTEN (2) 2 x 10 BLOCKING BETWEEN STUDS w/ (4) 12d NAILS PER PLY. FASTEN A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING w/ (2) 1/2" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION R703.8.2.1 OF THE 2018 NCRC FOR ADDITIONAL BRICK SUPPORT INFORMATION.. 7. PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN

		LIEU	0F	STEEL	LINTELS.	
--	--	------	----	-------	----------	--

LEGEND			
CONT	CONTINUOUS		
XT	EXTRA TRUSS		
TS	TRUSS SUPPORT		
EA	EACH		
()	NUMBER OF STUDS		
DSP	DOUBLE STUD POCKET		
TSP	TRIPLE STUD POCKET		
OC	ON CENTER		
SPF	SPRUCE PINE FIR		
SYP	SOUTHERN YELLOW PINE		
TRTD	PRESSURE TREATED		
TYP	TYPICAL		
UNO	UNLESS NOTED OTHERWISE		

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SA GENERAL EAST SIX FO

McCLEAN II - N.C. GREAT SOUTHERN HOMES

OATE: OCTOBER 24, 2023 ALE: 1/4" = 1'-0" DRAWN BY: GREAT SO HOMES

NEERED BY: WFB

S-3a ATTIC FLOOR FRAMING PLAN

(5) 2 x 4-\_LOCATE ATTIC ACCESS PER BUILDER ROOF TRUSSES TRAY CLG. BY OTHERS w/ ELEV. A & C: (2) JACKS w/ ELEV. A & C: ELEVATIONS A & C (5) 2 x 4

2 x 6 @ 16" O.C. BALLOON FRAMED WALL FROM BELOW. OR IN HIGH WIND\_
ZONES: 2 x 6 @ 12" O.C. BALLOON
FRAMED WALL FROM BELOW

BY OTHERS w/ ELEVATIONS A & C

w/ ELEV. A & C:

(2) JACKS

(2) 2 x 6 BALLOON FRAMED KING STUDS EA. END OF WINDOW

ELEVATION A EW G. ST

OPTIONAL BRICK

AND PROPERTY OF 10/25/2023

SUNROOM w/ OPT

SCREENED PATIO

SCALE NOTE:

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

FASTEN (2) 2 x 10 BLOCKING BETWEEN WALL STUDS w/ (4) 12d NAILS PER PLY. FASTEN A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING w/ (2) 1/2" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION R703.8.2.1. OF THE 2018 NCRC FOR ADDITIONAL BRICK SUPPORT INFORMATION.

WHERE ROOF SLOPES EXCEED 7:12, INSTALL 3"
× 3" x 1/4" STEEL PLATE STOPS AT 24" O.C.
PER SECTION R703.8.2.1 OF THE NORTH
CAROLINA RESIDENTIAL CODE, 2018 EDITION.

150 MPH ULTIMATE DESIGN WIND SPEED ROOF STRUCTURAL NOTES:

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH CHAPTER 45 OF THE 2018 NCRC.
- ALL FRAMING LUMBER TO BE #2 SPF (UNO). SECURE EA. RAFTER OR TRUSS TO BEARING WALL W/
- (2) SIMPSON H2.5A OR (1) SIMPSON H10A HURRICANE TIE (OR EQUAL) UNLESS NOTED OTHERWISE BY TRUSS ENGINEER BASED ON DESIGN UPLIFT FOR EA. TRUSS.
- ROOF SHEATHING PANELS TO BE 7/16" MINIMUM THICKNESS. SECURE PANELS TO RAFTERS OR
  TRUSSES w/ 10d NAILS AT 6" O.C. ALONG EDGES AND 12" O.C. IN THE FIELD.ATTACH SHEATHING TO GABLE FRAMING AT 4" O.C..
  INSTALL 2x BLOCKING AT SHEATHING JOINTS,
- INCLUDING RIDGES, IN THE END TWO RAFTER OR TRUSS SPACES.
- . STICK FRAME OVER-FRAMED ROOF SECTIONS w/ 2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 VALLEYS OR USE VALLEY TRUSSES.
- FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS 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 NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

120 MPH ULTIMATE DESIGN WIND SPEED ROOF STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE #2 SPF (UNO). STICK FRAME OVER-FRAMED ROOF SECTIONS W/ 2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10
- FASTEN FLAT VALLEYS TO RAFTERS WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS 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 R802.11 OF THE 2018 NCRC FOR
- REQUIRED UPLIFT RESISTANCE AT RAFTERS.
  REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL

STRUCTURAL INFORMATION.

NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PITCHES, PLATE HEIGHTS, DIMENSIONS, OVERHANG WIDTHS, AND ATTIC VENT CALCS.

	LEGEND					
	XT	EXTRA TRUSS				
	TS	TRUSS SUPPORT				
	XR	EXTRA RAFTER				
	RS	RAFTER SUPPORT				
	CONT	CONTINUOUS				
EA EACH  OC ON CENTER  SPF SPRUCE PINE FIR		EACH				
		ON CENTER				
		SPRUCE PINE FIR				
	SYP	SOUTHERN YELLOW PINE				
	TYP TYPICAL					
	UN0	UNLESS NOTED OTHERWISE				
- L						

ALE: 1/4" = 1'-0" RAWN BY: GREAT SC HOMES NEERED BY: WFB

S-4a ROOF FRAMING PLAN

**OPTIONAL** ROOF TRUSSES COVERED/SCREENED PATIO ENG. BY OTHERS ROOF NG. GIRDER TRUSS ENGINEERED
BY OTHERS ROOF TRUSSES ENGINEERED BY OTHERS ROOF TRUSSES ENGINEERED BY OTHERS GIRDER TRUSS ENGINEERED BY OTHERS ROOF NG. B ROOF ENG. E

ELEVATION A



10/25/2023

THOMPS INEERING, J.S.]

ON CH. NC 27609

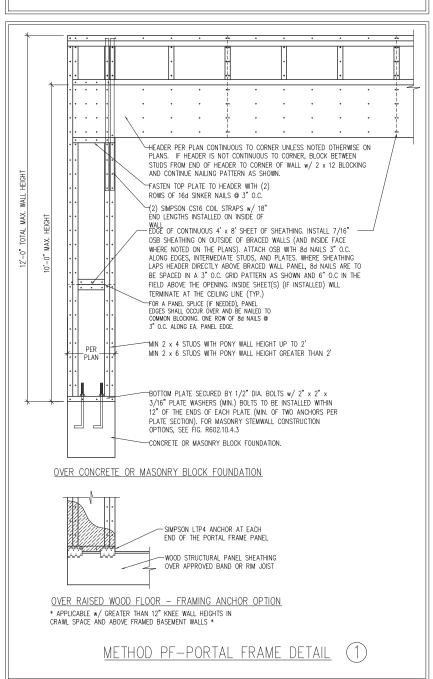
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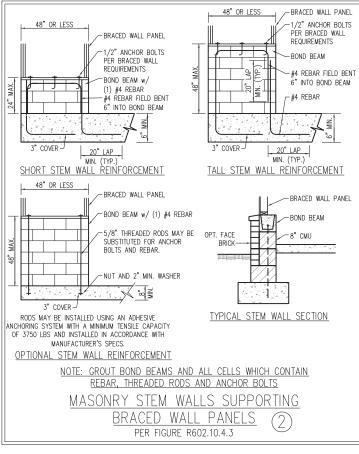
McCLEAN II - N.C. GREAT SOUTHERN HOMES

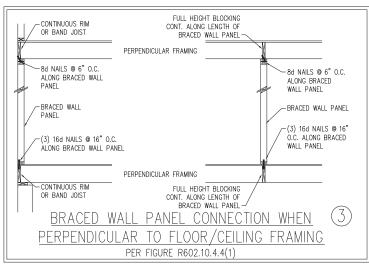
# GENERAL WALL BRACING NOTES:

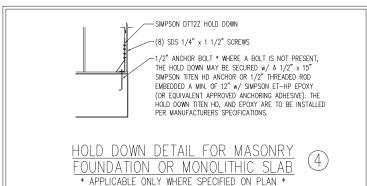
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND
- FIGURES REFERENCED ARE FROM THE 2018 NORC.
  SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NORC FOR ADDITIONAL INFORMATION AS NEEDED.
- BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR. HAVE BEEN DESIGNED PER R602.3.5 (3). WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERED PRACTICE
- SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.
- 6. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED. WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED PER TABLE R702.3.5. METHOD GB TO BE FASTENED PER TABLE R602.10.1
- THE RABLE RIJUS.3.3. METHOU SET OF THE REPORT OF THE RABLE ROUZE. THE REFERS TO THE "CONTINUOUS SHEATHING". WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 7/16" OSB
  SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED w/ 6d COMMON NAILS OR 8d (2 1/2" LONG x 0.113"
- DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (U.N.O.).

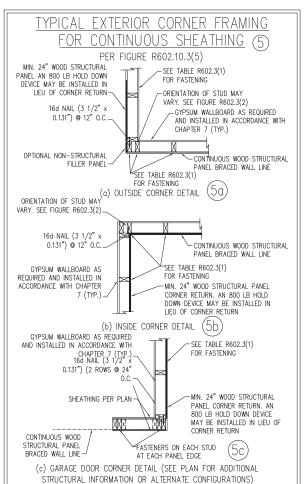
  GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN.) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH
  SIDES OF THE BRACED WALL FASTENED WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 7" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (U.N.O.). VERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R702.3.5. 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 R602. 10.3. METHOD CS-WSP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES .5 ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES 1.5 TIMES ITS ACTUAL LENGTH.











BRACED WALL PANEL CONNECTION WHEN PARALLEL

TO FLOOR/CEILING FRAMING

PER FIG. R602.10.4.4(2)

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

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JOISTS OR DBL. BAND JOIST

MEMBER DIRECTLY ABOVE BRACED WALL PANEL

-8d NAILS @ 6" O.C. ALONG

BRACED WALL PANEL

-BRACED WALL PANEL

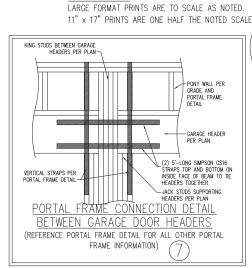
-(3) 16d NAILS @ 16" O.C.

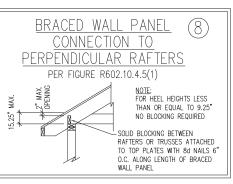
ADDITIONAL FRAMING

BRACED WALL PANEL

MEMBER DIRECTLY BELOW

ALONG BRACED WALL PANEL





FULL HEIGHT BLOCKING @

TOE NAIL (3) 8d NAILS AT

FA BLOCKING MEMBER

-BRACED WALL PANEL

-(3) 16d NAILS @ 16"

MEMBER

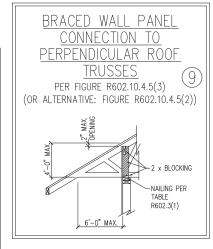
O.C. AT EA. BLOCKING

BRACED WALL PANEL

>(2) 16d NAILS EA. SIDE

BRACED WALL PANEL

6" O.C. ALONG LENGTH OF



FULL HEIGHT BLOCKING @ 16" O.C. ALONG LENGTH OF EW G. 10/25/2023

WN BY: JST

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BRACING NOTES AND DETAILS

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BRACED WALL NOTES AND

DETAILS AND PF DETAILS

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.

11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

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### 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 I—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/360		
FIRE ESCAPES	40	10	L/360		
HANDRAILS/GUARDRAILS	200	10	L/360		
PASSENGER VEHICLE GARAGE	50	10	L/360		
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/360		
SLEEPING ROOMS	30	10	L/360		
STAIRS	40	10	L/360		
WIND LOAD	(BASED ON TABLE R301.2(4) WIND ZONE AND EXPOSURE)				
GROUND SNOW LOAD: Pg	20 (PSF)				

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 OF THE NCRC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 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 MITURE SOILS CLASSIFIED AS GROUP 1, 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. 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 R402.2 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 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 SOULD OR SOULD FILED PIERS. PERS MAY BE FILLED SOULD WITH CONCRETE OR TYPE M OR S MORTAR. PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY
- 7. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING, EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/ASCE 5/TMS 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 (UND).

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## FRAMING NOTES

- ALL FRAMING LUMBER SHALL BE #2 SPF MINIMUM (Fb = 875 PSI, Fv = 375 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL
  TREATED LUMBER SHALL BE #2 SYP MINIMUM (Fb = 975 PSI, Fv =175 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO).
- 2. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E = 1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 2000000 PSI. INSTALL ALL CONNECTIONS DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 2000000 PSI. INSTALL ALL CONNECTIONS
- 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 A503, 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
D. STEEL PIPE COLUMN
(4) 3/4" DIA. A325 BOLTS OR 3/16" FILLET WELD

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

- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS FROM ABOVE
  WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE 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
- 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 FOILD LENGTHS (IND)
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) 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 I-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.
- 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.
- 11. 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 (U.N.O). 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 MAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R703.8.2.1 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 SHOWN (UNO).
- 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 700 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON H6 OR LTS12 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.

J.S.THOMPSON
ENGINEERING, INC

STANDARD STRUCTURAL NOTES

SEAL
33736

SEAL
300 STRAIN

10/25/2023

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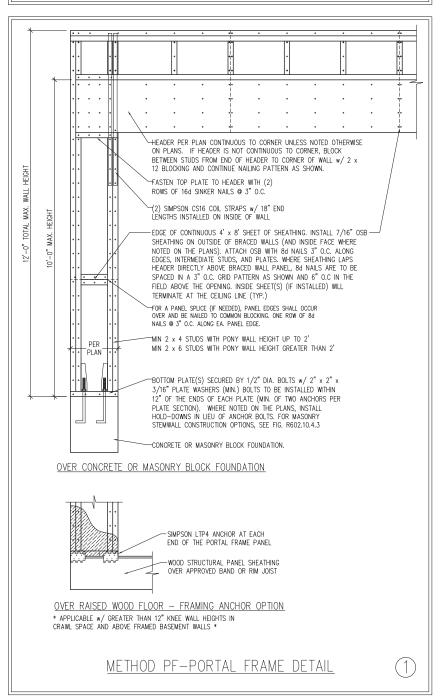
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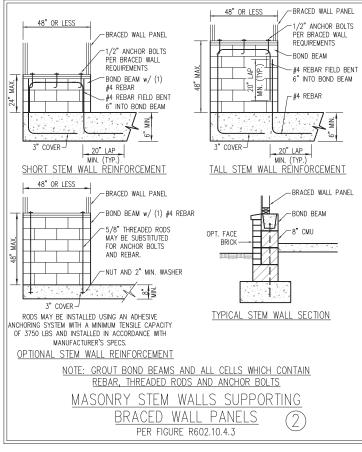
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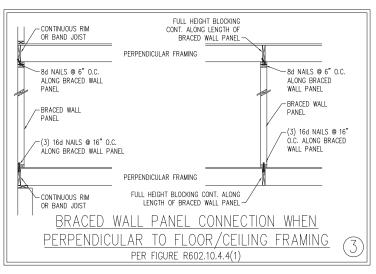
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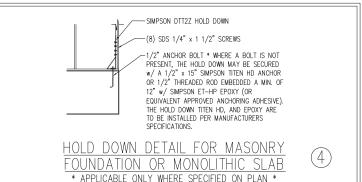
# GENERAL WALL BRACING NOTES:

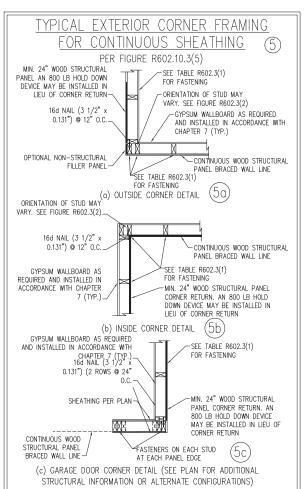
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 AND CHAPTER 45 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
  SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.
- SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, AND ANY SPECIAL NOTES OR REQUIREMENTS.
- 4 ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH 7/16" OSB WITH BLOCKING AT ALL SHEATHING JOINTS AND 84 NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD UNLESS NOTED OTHERWISE.
- 5. SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BAND JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED AT 3" O.C.. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND
- 6. ALL EXTERIOR WALLS TO BE SHEATHED ON INSIDE FACE WITH 1/2" GYPSUM BOARD PER TABLE R702.3.5 (UNO).











BRACED WALL PANEL CONNECTION WHEN

PARALLEL TO FLOOR/CEILING FRAMING

PER FIG. R602.10.4.4(2)

- ADDITIONAL FRAMING MEMBER DIRECTLY

ABOVE BRACED WALL PANEL

-8d NAILS @ 6" O.C. ALONG

BRACED WALL PANEL

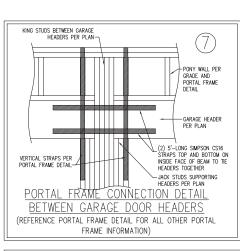
BRACED WALL PANEL

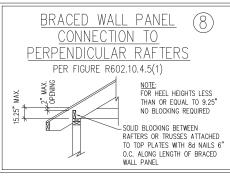
-(3) 16d NAILS @ 16" O.C.

MEMBER DIRECTLY BELOW

BRACED WALL PANEL

ALONG BRACED WALL PANEL





- FULL HEIGHT BLOCKING @

TOF NAIL (3) 8d NAILS AT

EA. BLOCKING MEMBER

BRACED WALL PANEL

-(3) 16d NAILS @ 16"

MEMBER

O.C. AT EA. BLOCKING

BRACED WALL PANEL

BRACED WALL PANEL

6" O.C. ALONG LENGTH OF

BRACED WALL PANEL CONNECTION TO PFRPENDICULAR ROOF <u>TRUSSES</u> PER FIGURE R602.10.4.5(3) (OR ALTERNATIVE: FIGURE R602.10.4.5(2)) 2 x BLOCKING TABLE R602.3(1) 6'-0" MAX.

HILL CAPO SEAL VGINEER STRO. WEW G. 10/25/2023

W | <u>a</u> 9 ½ ZZ 田田 S. T. S. T. B. S. 

MPH ULTIMATE DESIGN WIND BRACING NOTES AND DETAILS MPH - 150 WALL I 40

ATE: AUGUST 30, 2022 RAWN BY: JST EERED BY: IST

D-2 BRACED WALL NOTES AND DETAILS AND PF DETAILS

(2) 16d NAILS EA. SIDE AND MANAGEMENTS FULL HEIGHT BLOCKING @ 16" O.C. ALONG LENGTH OF

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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

-CONTINUOUS RIM w/ FINGER

JOISTS OR DBL. BAND JOIST

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.

11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

# 

## 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 I—JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND
  ACCURACY.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NORC), 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/360	
FIRE ESCAPES	40	10	L/360	
HANDRAILS/GUARDRAILS	200	10	L/360	
PASSENGER VEHICLE GARAGE	50	10	L/360	
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/360	
SLEEPING ROOMS	30	10	L/360	
STAIRS	40	10	L/360	
WIND LOAD	(BASED ON TABLE R301.2(4) WIND ZONE AND EXPOSURE)			
GROUND SNOW LOAD: Pg	20 (PSF)			

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 OF THE NCRC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

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- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS 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.
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  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
- 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 FOILD LENGTHS (IND)
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) 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 I-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.
- 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.
- 11. 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 (U.N.O). 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) 124 NAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R703.8.2.1 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 SHOWN (UNO).
- 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 700 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON H6 OR LTS12 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.

I.S. THOMPSON
ENGINEERING, INC
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STANDARD STRUCTURAL NOTES

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TE: AUGUST 30, 2022

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> STRUCTURAL NOTES