

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

ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS, ENGINEER'S SEAL DOES NOT CERTIF DIMENSIONAL ACCURACY OR ARCHITECTURAL

LAYOUT INCLUDING ROOF SYSTEM. STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION,

- RESIDENTIAL CODE, 2018 ENTION.

 INSTALL 1/2" ANCHOR BOLTS 6"-0" O.C. AND

 WITHIN 1"-0" FROM END OF EACH CORNER.

 ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7"

 INTO MASONEY OR CONNERTE. LOCATE BOLT WITHIN

 MIDDLE THIRD OF PLATE WORTH.

 MEAR NOOF HEIGHT IS LESS THAN 30 FEET.

 EXTEROR WALLS DESIGNED FOR 120 MPH MINDS.

 MALL CLADONE DESIGNED FOR 115.5 PSF AND -20

 PSF (4'- INDICATE POSITIVE / NEGATIVE

 DESISSIPE (7'-) MIDICATE POSITIVE / NEGATIVE
- PRESSURE (TYP).
 ROOF CLADDING DESIGNED FOR +14.2 PSF AND -18 PSF FOR ROOF PITCHES 7/12 TO 12/12 AND +10 PSF AND -36 PSF FOR ROOF PITCHED 2.25/12 TO
- WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10.3 OF THE NCRC, 2018 EDITION. SEE THE WALL BRACING NOTES AND DETAILS SHEET
- SEC THE WALL BRAUMER WILES AND DETAILS SHEE
 FOR MORE INFORMATION.
 ENERGY EFFICIENCY COMPLIANCE AND INSULATION
 VALUES OF THE BUILDING TO BE IN ACCORDANCE
 WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.
 REFER TO NOTES AND DETAIL SHEETS FOR
 ADDITIONAL STRUCTURAL INFORMATION.

10/25/2023

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" ANCHOR BOLIS @ 6-0" C.C. w/ NOI AND 2" x
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 EXTENSIVE WALLS TO BE SHEATHED WITH 7/16" OSB SLEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG PANEL EDGES AND 6" O.C. IN THE FIELD. SECURE ALL EXTENSION 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

	LEGEND
CONT	CONTINUOUS
XJ	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

McCLEAN II - N.C. GREAT SOUTHERN HOMES

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

S-1a CRAWL

FOUNDATION PLAN

(2) 2 x 10

4 8 4 8

EXTEND ROOF TRUSSES

COVERED/SCREENED

w/ OPTIONAL

(2) 2 x 10 (TYP.)

OPTIONAL SUNROOM w/ OPTIONAL

COVERED/SCREENED PATIO

4 x 4 TRTD. POST

MIN. IN CORNER

w/ ELEV. A & C:

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

ON - 100 PC 27609 ഗ മ്|७୬

CCLEAN II - N.C.
SOUTHERN HOMES Mc GREAT

ATE: OCTOBER 24, 202

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

NEERED BY: WFB

S-2a SECOND FLOOR FRAMING PLAN

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).

MINIMUM NUMBER OF FULL INSTALL 2 x 4 @ 16" O.C. BLOCKING BETWEEN ADJACENT TRUSSES UNDER HEIGHT STUDS (KINGS) 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 $6\ensuremath{\text{m}}$ 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:

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

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

(FEET)

> 6' TO 9'

> 9' TO 12'

> 12' TO 15'

OPTIONAL BRICK

VENEER (TYP.)

ROOF TRUSSES

ENGINEERED

BY OTHERS

(2) JACKS AND (4) KING
-STUDS FASTENED w/ SIMPSON

CS16 STRAPS @ 24" O.C.

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-(2) 1 3/4" x 9 1/4" LVL

ENG. BY OTHERS

LIEU OF STEEL LINTELS

4 x 4 TRTD. POST

MIN. (TYP.)

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			

IN 120 MPH WIND ZUNES				
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			

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

AN	MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)		
,	1	-	l
3'	2	-	l
)'	3	-	l
2'	4	-	١,
-1		- 1	ш

ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE

SYP #2 (UNO.) 2. ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO) 3. 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.

4. 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 700 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO.)

FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO SLAB w/ (2) METAL ANGLES USING 2" CONC. SCREWS. FASTEN ANGLES TO COLUMNS w/ 1/4" THROUGH BOLTS w/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN.

REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL

		2.	BRACED WALL DESIGN PER SECTION R602.10.5 "WALL BRACING BY ENGINEERED DESIGN" OF THE NORC 2018 EDITION USING BRACING MATERIALS AND METHODS SITED 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
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—(3) JACKS

—(3) JACKS

ELEV. A & C:

(3) JACKS

BRACED WALL DESIGN NOTES:

x 14" 7/8" FIFV.)

(2) 1 3/4" 1 3/4" × 11 ABOVE (ALL

/ ELEV. A & C: (; / ELEV. B: (2) 1 OR w/ BRICK AE

(3) 2 x 4 --

(3) 2 x 4

OPTIONAL COVERED ,

PARALLEL WALL

SCREENED PATIO

(2) 2 x 12 (TYP.)

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.)

14" FLOOR TRUSSES ENGINEERED R

OTHERS @ 19.2" O.C. MAX CONT.

2 x 6 @ 16" O.C. BALLOON FRAMED WALL

2 x 6 @ 12" O.C. BALLOON FRAMED WALL

OR IN HIGH WIND ZONES: -

GYPSUM BOARD ON BOTH SIDES OF WALL WHERE NOTED ON THE PLANS ATTACHED WITH 1 1/4" LONG #6 SCREWS OR 1 5/8" LONG 5d COOLER NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD. BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH

WIND ZONES, BRACED WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL

INFORMATION.

LINTEL SCHEDULE FOR BRICK/NATURAL STONE SUPPORT LENGTH (FT.) SIZE OF LINTEL UP TO 4 FT. L 3 1/2 x 3 1/2 x 1/4 L 5 x 3 1/2 x 5/16 LLV 8 AND GREATER L 6 x 4 x 5/16 LLV

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SEAL 33736

EW G.

Constitution Maries

10/25/2023

(1) 1 3/4" x 14" LSL RIM. ATTACH CANTIEVERED TRUSSES.

w/ INVERTED HANGERS.

14" FLOOR TRUSSE

GIRDER TRUSS ENG. BY OTHERS (2) JACKS-

GIRDER TRUSS

FNG. BY OTHERS

XT CANTILEVERED

(6) 2 x 4 -

BRICK SUPPORT NOTES: 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

XT EXTRA TRUSS 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

LEGEND

CONT CONTINUOUS

LOOR TRUSSES AS SPECIFIED (TYP.) CONT 2 v 4 SCAR ATT TO -ALL TRUSS MEMBERS w/ (1) ROW OF 12d NAILS @ 4" O.C TRUSS BLOCKING DETAIL 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.

TRUSS DESIGNER TO DESIGN ADJACENT TRUSSES FOR

ADDITIONAL LOADING FROM WALLS.

2 v 4 @ 16" 0 C

BLOCKING ATT. w/ (2) 12d TOE NAILS EA. END

4 x 4 TRTD. POST

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

I.S. THOMPSON ENGINEERING, INC

McCLEAN II - N.C. GREAT SOUTHERN HOMES

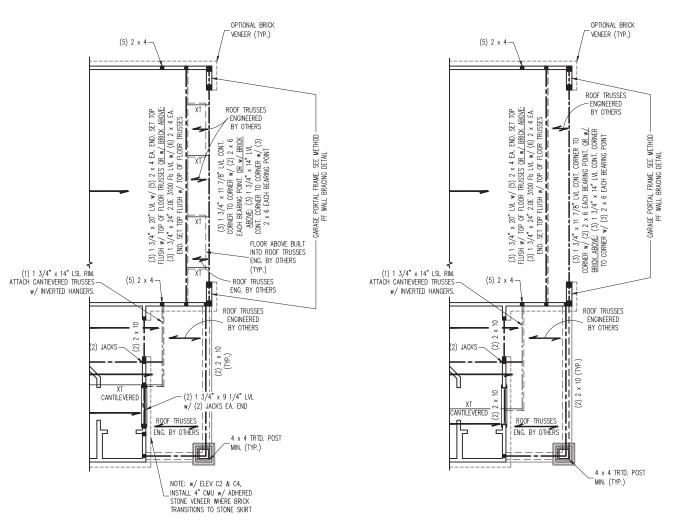
DATE: OCTOBER 24, 2023 SCALE: 1/4" = 1'-0" DRAWN BY: GREAT SOU GINEERED BY: WFB

33736

FW G. ST

10/25/2023

S-2b SECOND FLOOR FRAMING PLAN



ELEVATION B

w/ ELEV. A & C:

(2) 2 ×

w/ ELEV. A & C:

w/ ELEV. A & C:

TRAY CLG.

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

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THOMP SINEERING

SA GENERAL EAST SIX FO

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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

OPTIONAL BRICK

(5) 2 x 4_

(5) 2 x 4_

GIRDER TRUSS ENG.

LOCATE ATTIC ACCESS PER BUILDER

(2) 2 x 6 BALLOON

RAMED KING STUDS EA. END OF WINDOW

10/25/2023

BY OTHERS WA

ROOF TRUSSES

GIRDER TRUSS EN

BY OTHERS w/ ELEVATIONS A & (

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

VENEER

MINIMUM NUMBER OF FULL (FEET) HEIGHT STUDS (KINGS) UP TO 3 > 3' TO 6 > 6' TO 9' > 9' TO 12' > 12' TO 15'

150 MPH ULTIMATE DESIGN WIND SPEED STRUCTURAL NOTES

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH CHAPTER 45 OF THE 2018 NCRC
- ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO). 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 ZUNES				
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

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. (LLV) = LONG LEG VERTICAL
 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) 120 Mails PER PLY. FASTEN A 6" \times 4" \times 5/16" STEL ANGLE TO (2) 2 \times 10 blocking w/ (2) 1/2" lag screws @ 12" 0.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 LIEU OF STEEL LINTELS.

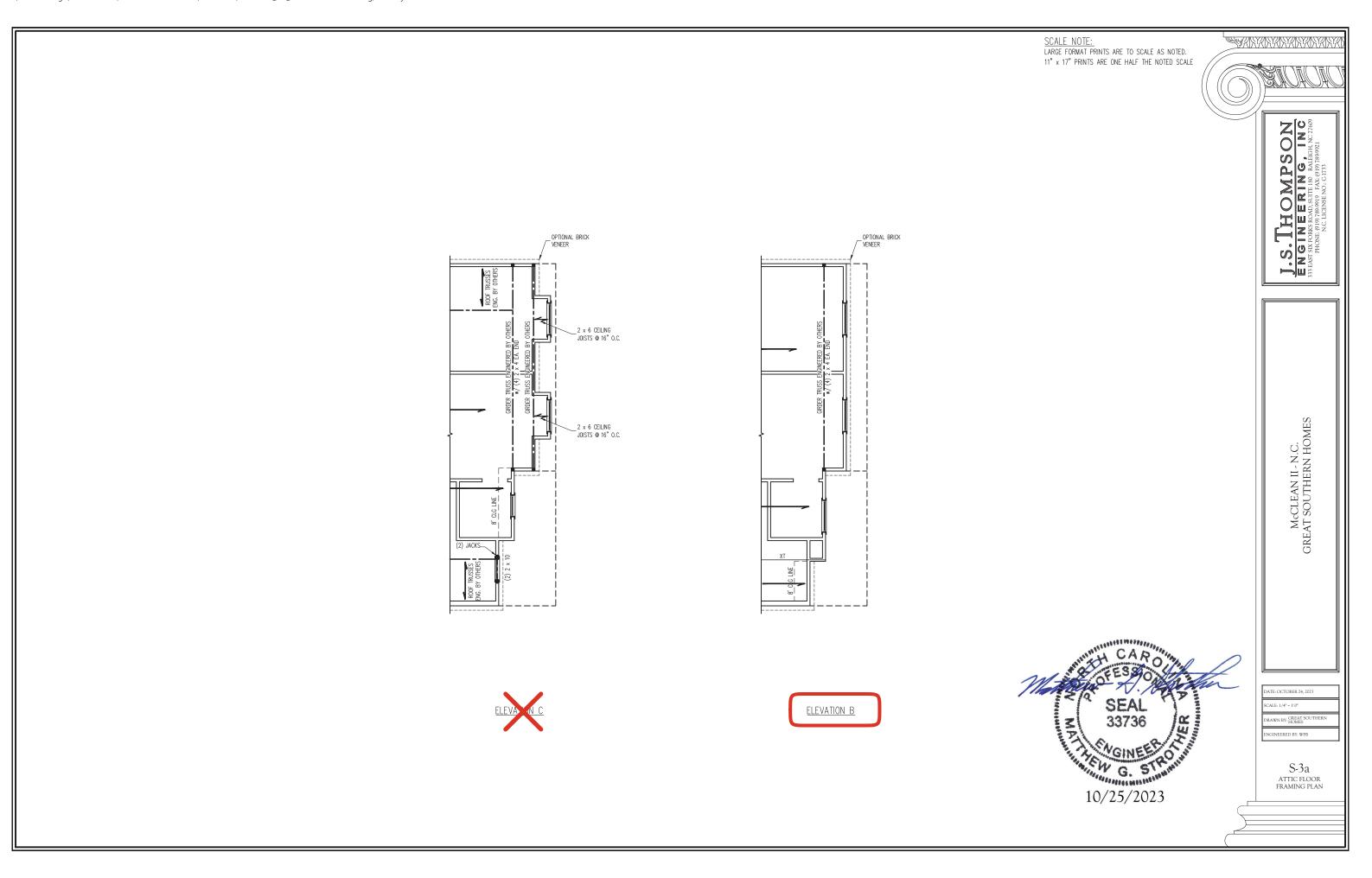
	LEGEND		
CONT	CONT CONTINUOUS		
XT	EXTRA TRUSS		
TS	TRUSS SUPPORT		
EA	EACH		
()	NUMBER OF STUDS		
DSP	DOUBLE STUD POCKET		
TSP	TRIPLE STUD POCKET		
OC	ON CENTER		
SPF	SPRUCE PINE FIR		
SYP	SOUTHERN YELLOW PINE		
TRTD	PRESSURE TREATED		
TYP	TYPICAL		
UNO	UNLESS NOTED OTHERWISE		

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

INEERED BY: WFB

S-3a ATTIC FLOOR FRAMING PLAN

McCLEAN II - N.C. GREAT SOUTHERN HOMES



LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.

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

ON, NC 27609

HOMPS VEERING, KS ROAD, SUITE 180 RALE

SA GENERAL EAST SIX FO

McCLEAN II - N.C. GREAT SOUTHERN HOMES

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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" 0.C. STAGGERED. SEE SECTION R703.8.2.1. OF THE 2018 NORE OF ADDITIONAL BRICK SUPPORT INFORMATION.

X WHERE ROOF SLOPES EXCEED 7:12, INSTALL 3"

X 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) UNILESS NOTED OTHERWISE BY TRUSS
 ENGINEER BASED ON DESIGN UPUIFT FOR EA. TRUSS.
- 4. 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.

 5. INSTALL 2x BLOCKING AT SHEATHING JOINTS,
- INSTALL 2x BLOCKING AT SHEATHING JOINTS, INCLUDING RIDGES, IN THE END TWO RAFTER OR TRUSS SPACES.
- 6. 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.
- VALLEY ON US VALLEY INCSES.

 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 VALLEYS.

 FASTEN FLAT VALLEYS TO RAFTERS WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS
- H.2.5A 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. 8. 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.

10/25/2023

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

LEGEND				
EXTRA TRUSS				
TRUSS SUPPORT				
EXTRA RAFTER				
RAFTER SUPPORT				
CONT CONTINUOUS				
EACH				
ON CENTER				
SPRUCE PINE FIR				
SOUTHERN YELLOW PINE				
TYPICAL				
UNLESS NOTED OTHERWISE				

GEND

RA TRUSS
SS SUPPORT

RA RAFTER

TER SUPPORT

TITINUOUS

H

CENTER

LIVES DIVIS FID.

S-4b ROOF FRAMING PLAN

ROOF TRUSSES ENGINERED
BY OFHERS
ROOF TRUSSES ENG.
BY OFHERS AT OFT.
TOWNED / SCREENED
I PATTO w/ SUNROOM

ROOF TRUSSES DICAMETERD

BY OPERS

BOOF TRUSSES DICAMETERD

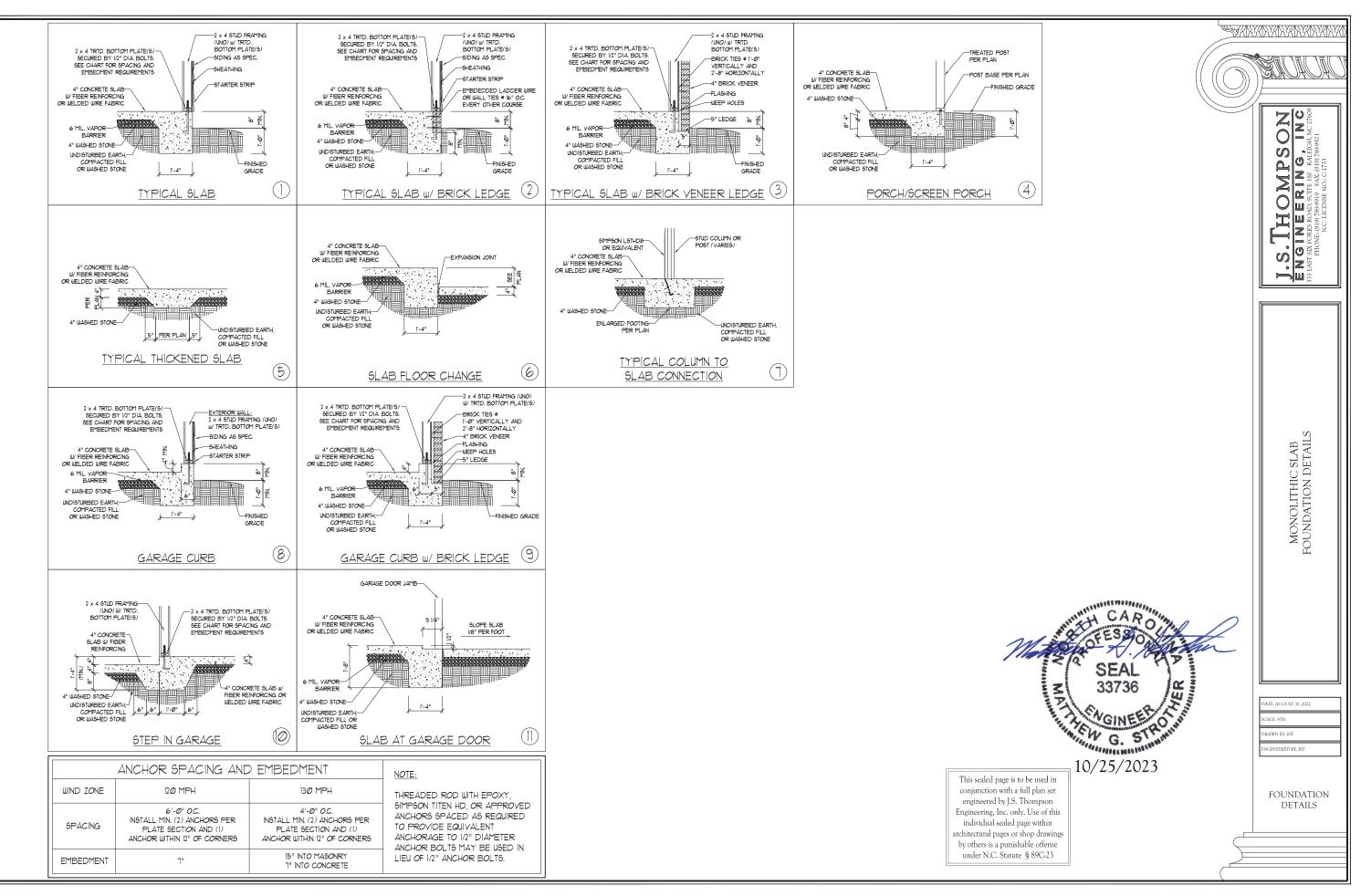
BY OPERS

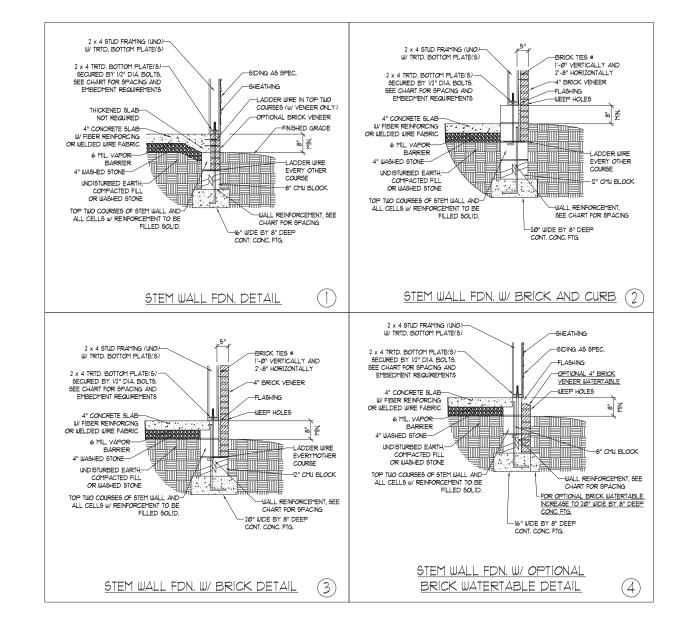
BOOF TRUSSES DICAMETERD

BY OPERS

OPTIONAL SUNROOM w/ OPT.
COVERED/SCREENED PATIO

ELEVATION B





130 MPH

4'-0" O.C.

INSTALL MIN. (2) ANCHORS PER

PLATE SECTION AND (1)

ANCHOR WITHIN 12" OF CORNERS

15" INTO MASONRY

1" INTO CONCRETE

NOTE:

THREADED ROD WITH EPOXY,

TO PROVIDE EQUIVALENT

LIEU OF 1/2" ANCHOR BOLTS.

SIMPSON TITEN HD, OR APPROVED

ANCHORS SPACED AS REQUIRED

ANCHOR BOLTS MAY BE USED IN

ANCHORAGE TO 1/2" DIAMETER

ANCHOR SPACING AND EMBEDMENT

120 MPH

6'-0" O.C.

INSTALL MIN. (2) ANCHORS PER

PLATE SECTION AND (1)

ANCHOR WITHIN 12" OF CORNERS

WIND ZONE

SPACING

EMBEDMENT

MASONRY STEMWALL SPECIFICATIONS					
WALL HEIGHT	MASONRY WALL TYPE				
(FEET)	8" CMU	4" BRICK AND 4" CMU	4" BRICK AND 8" CMU	12" CMU	
2 AND BELOW	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED	
3	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED	
4	GROUT SOLID	GROUT SOLID w/ *4 REBAR @ 48" O.C.	GROUT SOLID	GROUT SOLID w/ *4 REBAR @ 64" O.C.	
5	GROUT SOLID w/ *4 REBAR @ 36" O.C.	NOT APPLICABLE	GROUT SOLID w/ #4 REBAR @ 36" O.C.	GROUT SOLID w/ *4 REBAR @ 64" O.C.	
6	GROUT SOLID w/ *4 REBAR @ 24" O.C.	NOT APPLICABLE	GROUT SOLID W/ #4 REBAR @ 24" O.C.	GROUT SOLID w/ *4 REBAR @ 64" O.C.	
1 AND GREATER	ENGINEERED DESIGN BASED ON SITE CONDITIONS				

STRUCTURAL NOTES:

- 1) WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
 2) TIE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.
- 3) CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
- 4) BACKFILL OF CLEAN *51 / *61 WASHED STONE IS ALLOWABLE.
- 5) BACKFILL OF WELL DRAINED OR SAND GRAVEL MIXTURE SOILS (45 PSF/FT BELOW GRADE) CLASSIFIED AS GROUP I ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL CODE ARE ALLOWABLE.
- 6) PREP SLAB PER $\underline{\text{R5062.1}}$ AND $\underline{\text{R50622}}$ BASE AND $\underline{\text{EXCEPTION}}$ OF 2018 NORTH CAROLINA RESIDENTIAL CODE.
- MINIMUM 24" LAP SPLICE LENGTH.
- 8) LOCATE REBAR IN CENTER OF FOUNDATION WALL.
- 9) WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE "S" MORTAR OR 3000 PSI GROUT. USE OF "LOW LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.

0 10/25/2023

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STEM WALL FOUNDATION DETAILS

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RAWN BY: JST NEERED BY: JST

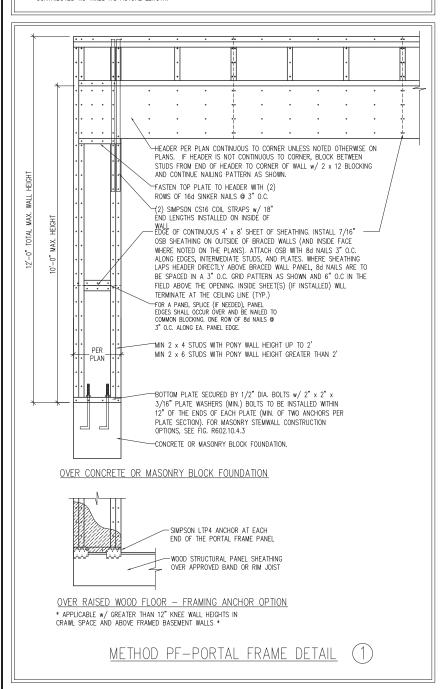
> FOUNDATION DETAILS

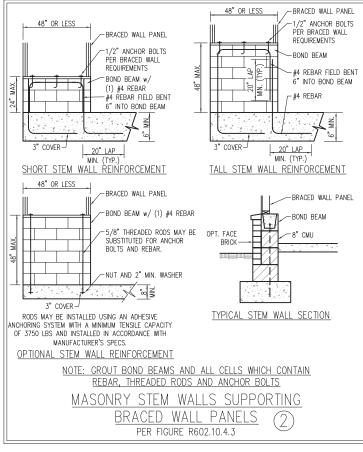
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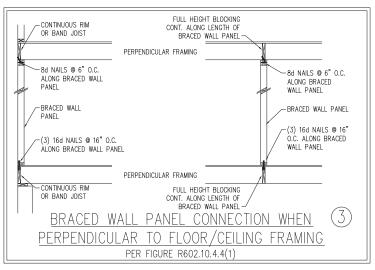
GENERAL WALL BRACING NOTES:

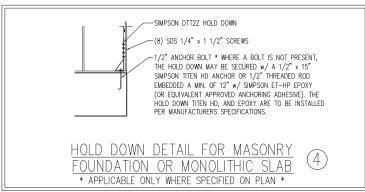
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND
- FIGURES REFERENCED ARE FROM THE 2018 NORC.
 SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NORC FOR ADDITIONAL INFORMATION AS NEEDED.
- BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES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

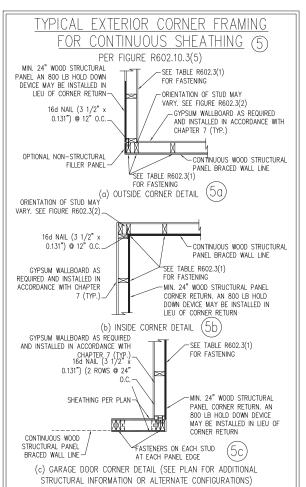
 GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN.) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH
 SIDES OF THE BRACED WALL FASTENED WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 7" O.C. ALONG PANEL EDGES INCLUDING
- TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (U.N.O.). VERIFY ALL FASTENER 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.











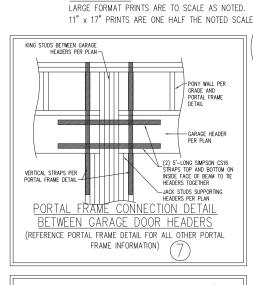
BRACED WALL PANEL

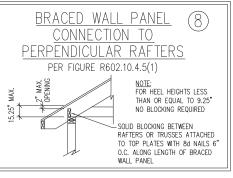
-BRACED WALL PANEL

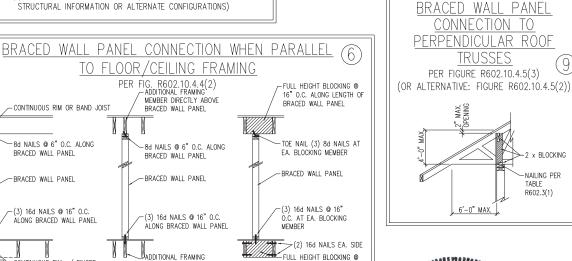
ADDITIONAL FRAMING

BRACED WALL PANEL

MEMBER DIRECTLY BELOW







BRACED WALL PANEL

A STATE WASHINGS 16" O.C. ALONG LENGTH OF SEAL G. ACTURE MENERS 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

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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

JOISTS OR DBL. BAND JOIST

SCALE NOTE: LARGE FORMAT PRINTS ARE TO SCALE AS NOTED

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

GENERAL NOTES

- 1. 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
- 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.
- 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	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
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP 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.
- 4. CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NCRC. 2018 FDITION. CONCRETE REINFORCING STEFL TO BE ASTM A615 GRADE 60. WELDED WRE FABRIC TO BE ASTM A185. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2" FOR #5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C270.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR 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
- 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 (UNO).

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FRAMING NOTES

- 1. 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
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS.

W AND WT SHAPES: CHANNELS AND ANGLES ASTM A36 PLATES AND BARS: ASTM A36 HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B ASTM A53, GRADE B, TYPE E OR S

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

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

- 5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS FROM ABOVE
- 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 FACH REAR FOLIAL LENGTHS (LINO)
- 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
- 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. BRACFD 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 LINDER ALL WALLS PARALLEL TO FLOOR JOISTS PROVIDE SUPPORT LINDER 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
- 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 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
- 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).
- 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.

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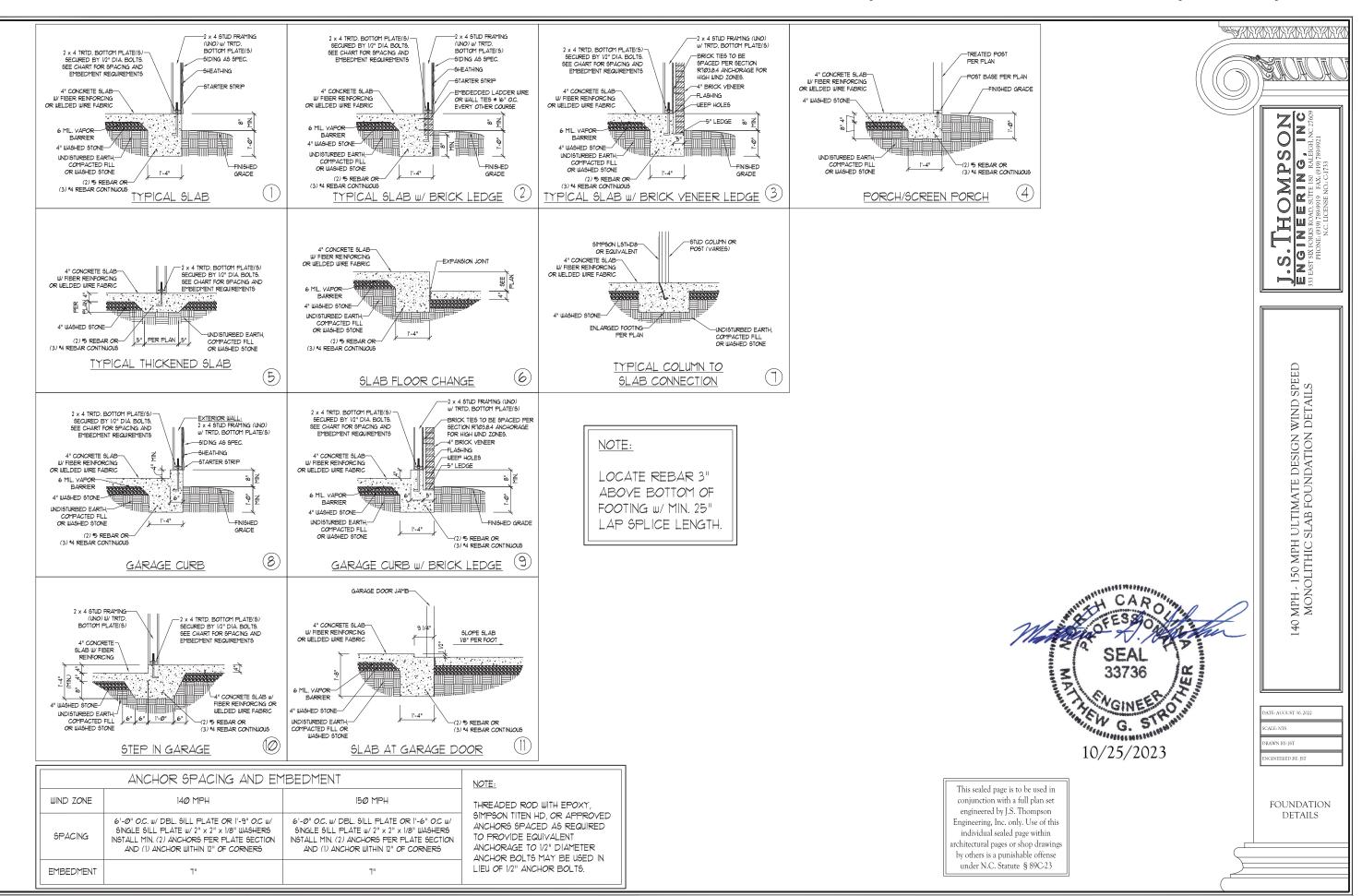
> STRUCTURAL STANDARD

10/25/2023

RAWN BY: JST

NEERED BY: IST

STRUCTURAL NOTES



BRICK TIES TO BE SPACED PER SECTION R103.8.4 ANCHORAGE FOR HIGH WIND ZONES. -4" BRICK VENEER ADDER WIRE EVERY OTHER COURSE 12" CMU SOLID FILLED STEM WALL FND -1/2" THREADED ROD CONTINUOUS TO FOOTING. SEE CHART FOR SPACING AND EMBEDMENT REQ. STEM WALL FDN. W/ BRICK AND CURB (2) OPTIONAL 4" BRICK VENEER WATERTABLE -8" CMU SOLID FILLED STEM WALL FND. CONTINUOUS TO FOOTING. SEE CHART FOR SPACING AND EMBEDMENT REQ.

—FLASHING —WEEP HOLES

SHEATHING

-SIDING AS SPEC.

-WEEP HOLES

MASONRY STEMWALL SPECIFICATIONS							
WALL HEIGHT	MAGONRY WALL TYPE						
(FEET)	8" CMU	4" BRICK AND 4" CMU	4" BRICK AND 8" CMU	12" CMU			
2 AND BELOW	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED			
3	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED			
4	GROUT SOLID	GROUT SOLID w/ *4 REBAR @ 48" O.C.	GROUT SOLID	GROUT SOLID w/ *4 REBAR @ 64" O.C.			
5	GROUT SOLID w/ *4 REBAR @ 36" O.C.	NOT APPLICABLE	GROUT SOLID w/ *4 REBAR @ 36" O.C.	GROUT SOLID w/ *4 REBAR @ 64" O.C.			
6	GROUT SOLID w/ *4 REBAR @ 24" O.C.	NOT APPLICABLE	GROUT SOLID w/ *4 REBAR @ 24" O.C.	GROUT SOLID w/ *4 REBAR @ 64" O.C.			
1 AND GREATER	ENGINEERED DESIGN BASED ON SITE CONDITIONS						

STRUCTURAL NOTES:

- WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
- 2) TIE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.
- 3) CHART APPLICABLE FOR HOUSE FOUNDATION $\underline{\mathit{ONLY}}$, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
- 4) BACKFILL OF CLEAN #51 / 161 WASHED STONE IS ALLOWABLE.
- 5) BACKFILL OF WELL DRAINED OR SAND GRAVEL MIXTURE SOILS (45 PSF/FT BELOW GRADE) CLASSIFIED AS GROUP I ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R4@51 OF THE 2018 NORTH CAROLINA RESIDENTIAL CODE ARE ALLOWABLE.
- 6) PREP 5LAB PER R50621 AND R50622 BASE AND EXCEPTION OF 2018 NORTH CAROLINA RESIDENTIAL CODE.
- 1) MINIMUM 24" LAP SPLICE LENGTH
- 8) LOCATE REBAR IN CENTER OF FOUNDATION WALL.
- 9) WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE "S" MORTAR OR 3000 PSI GROUT. USE OF "LOW LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.

NOTE:

LOCATE REBAR 3" ABOVE BOTTOM OF FOOTING W/MIN. 25" LAP SPLICE LENGTH.

ANCHOR SPACING AND EMBEDMENT				
WIND ZONE	140 MPH	150 MPH		
SPACING	1'-9" O.C. w/ DBL. SILL PLATE w/ 2" x 2" x 1/8" WASHERS INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	1'-6" O.C. w/ DBL. SILL PLATE w/ 2" x 2" x 1/8" WASHERS INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS		
EMBEDMENT	RODS CONTINUOUS FROM FOOTING UP THROUGH SILL PLATE w/ 7" MINIMUM CONCRETE EMBEDMENT	RODS CONTINUOUS FROM FOOTING UP THROUGH SILL PLATE w/ 7" MINIMUM CONCRETE EMBEDMENT		

SIDING AS SPEC.

LADDER WIRE IN TOP TWO COURSES (W/ VENEER ONLY)

-OPTIONAL BRICK VENEER

-FINISHED GRADE

LADDER WIRE

EVERY OTHER

-8" CMU SOLID

FILLED STEM

WALL FND.

-1/2" THREADED ROD CONTINUOUS TO FOOTING. SEE CHART FOR SPACING

AND EMBEDMENT REQ.

BRICK TIES TO BE SPACED PER SECTION R103.8.4 ANCHORAGE FOR HIGH WIND ZONES.

LADDER WIRE

EVERY OTHER

—12" CMU SOLID FILLED STEM WALL FND.

COURSE

1/2" THREADED ROD

CONTINUOUS TO FOOTING. SEE CHART FOR SPACING AND EMBEDMENT REQ.

-4" BRICK VENEER

-FLASHING

-WEEP HOLES

COURSE

SHEATHING

2 x 4 STUD FRAMING (UNO)-W/ TRTD. BOTTOM PLATES

DBL 2 x 4 TRTD. BOTTOM PLATES-SECURED BY 1/2" DIA. BOLTS. SEE CHART FOR SPACING AND

THICKENED SLAE

4" CONCRETE SLAB-

UNDISTURBED EARTH, COMPACTED FILL

OR WASHED STONE

2 x 4 STUD FRAMING (UNO)-W/ TRTD. BOTTOM PLATES

DBL 2×4 TRTD. BOTTOM PLATES

4" CONCRETE SLAB— W/ FIBER REINFORCING OR WELDED WIRE FABRIC

4" WASHED STONE

6 MIL. VAPOR

UNDISTURBED EARTH:

COMPACTED FILL OR WASHED STONE

24" WIDE BY 8" DEEP CONT .-CONC. FTG. w/ (3) *4 REBAR CONT. OR (2) *5 REBAR CONT.

BARRIFR

SECURED BY 1/2" DIA, BOLTS. SEE CHART FOR SPACING AND

EMBEDMENT REQUIREMENTS

24" WIDE BY 8" DEEP CONT.— CONC. FTG. w/ (3) *4 REBAR CONT. OR (2) *5 REBAR CONT.

STEM WALL FON. DETAIL

STEM WALL FDN. W/ BRICK DETAIL

W/ FIBER REINFORCING OR WELDED WIRE FABRIC

4" WASHED STONE

NOT REQUIRED

EMBEDMENT REQUIREMENTS

NOTE:

STEM WALL FDN. W/ OPTIONAL

BRICK WATERTABLE DETAIL

2 x 4 STUD FRAMING (UNO)-W/ TRTD. BOTTOM PLATES

24" WIDE BY 8" DEEP CONT.

CONC. FTG. w/ (3) *4 REBAR CONT. OR (2) *5 REBAR CONT.

2 x 4 STUD FRAMING (UNO)-

W/ TRTD. BOTTOM PLATES

DBL 2 x 4 TRTD. BOTTOM PLATES -SECURED BY 1/2" DIA. BOLTS. SEE CHART FOR SPACING AND

EMBEDMENT REQUIREMENTS

4" CONCRETE SLAB

6 MIL. VAPOR-BARRIER 4" WASHED STONE

UNDISTURBED EARTH,— COMPACTED FILL OR WASHED STONE

24" WIDE BY 8" DEEP CONT.-CONC. FTG. w/ (3) *4 REBAR CONT. OR (2) *5 REBAR CONT.

W/ FIBER REINFORCING

OR WELDED WIRE FABRIC

DBL 2 x 4 TRTD. BOTTOM PLATES

4" CONCRETE SLAB-

BARRIER

COMPACTED FILL

OR WASHED STONE

UNDISTURBED EARTH;

OR WELDED WIRE FABRIC

4" WASHED STONE

SECURED BY 1/2" DIA, BOLTS.

SEE CHART FOR SPACING AND

THREADED ROD WITH EPOXY OR APPROVED ANCHORS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2" DIAMETER ANCHOR BOLTS MAY BE USED IN LIEU OF 1/2" ANCHOR BOLTS.

(4)

EW G. " CHILLIAM WANTED 10/25/2023

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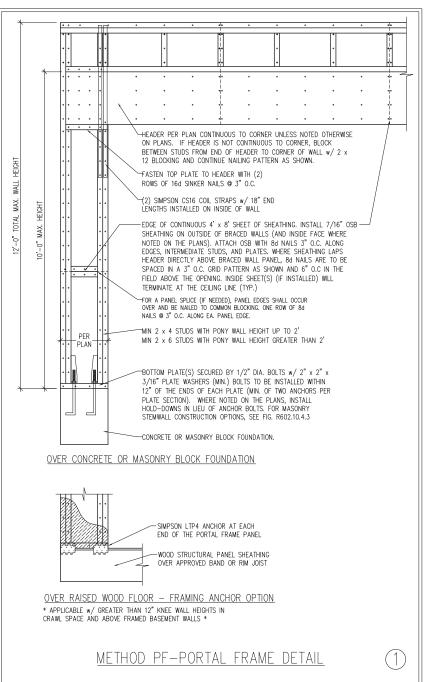
> MPH ULTIMATE DESIGN WIND SPEED WALL FOUNDATION DETAILS MPH - 150 1 STEM ' 40

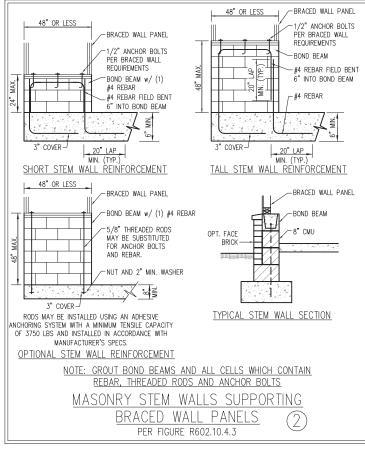
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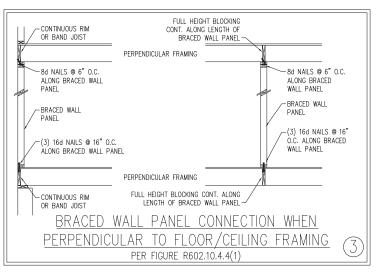
> FOUNDATION DETAILS

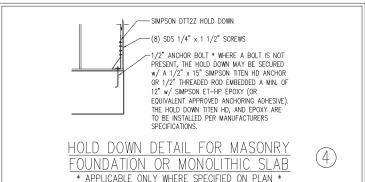
GENERAL WALL BRACING NOTES:

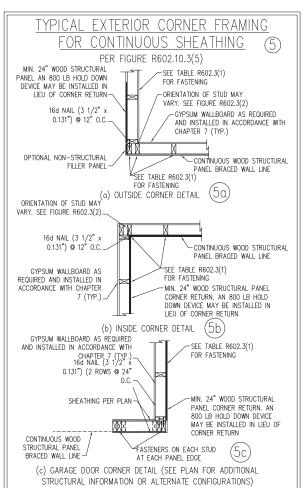
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 AND CHAPTER 45 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
 SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.
- SEE STRUCTURAL SHEETS FOR BRACED 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

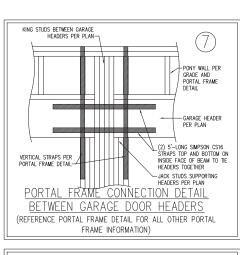
-8d NAILS @ 6" O.C. ALONG

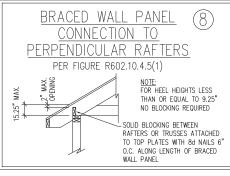
BRACED WALL PANEL

BRACED WALL PANEL

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

ALONG BRACED WALL PANEL





- FULL HEIGHT BLOCKING @

TOF NAIL (3) 8d NAILS AT

-(3) 16d NAILS @ 16"

MEMBER

BRACED WALL PANEL

6" O.C. ALONG LENGTH OF

BRACED WALL PANEL CONNECTION TO PERPENDICULAR 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.

*********** CARO G. THE PROPERTY MEASURE 10/25/2023

EERED BY: IST

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BRACED WALL NOTES AND DETAILS AND PF DETAILS

EA. BLOCKING MEMBER BRACED WALL PANEL O.C. AT EA. BLOCKING → (2) 16d NAILS EA. SIDE FULL HEIGHT BLOCKING @ 16" O.C. ALONG LENGTH OF BRACED WALL PANEL

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

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RAWN BY: JST

D-2

MEMBER DIRECTLY BELOW -CONTINUOUS RIM w/ FINGER BRACED WALL PANEL JOISTS OR DBL. BAND JOIST

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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

SCALE NOTE:

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,
 COLUMMS, 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 NE EXCEED 24* FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL—DRAINED OR SAND—GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP 1, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NORC, 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 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
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 1/2" DIAMETER BOLTS @ 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/ (2) ROWS OF 9/16" DIAMETER HOLES @ 16" O.C.

- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS FROM ABOVE
 WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER RELOW.
- 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 LAIL JENGTHS (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 NAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R703.82.1 OF THE NCRC, 2018 EDITION.
- 13. FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS 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 FASTEMED 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.
33 EAST SK FOOKE, ROLD, SUTE 18 PHOTE (1917 789991) PRAY (1917 789991)
N.C. LICENSE NO. C. LIZENSE

STANDARD STRUCTURAL NOTES

SEAL 33736

SEAL 30736

SOURCE STANDARD STANDARD

TE: AUGUST 30, 2022

DRAWN BY: JST ENGINEERED BY: JST

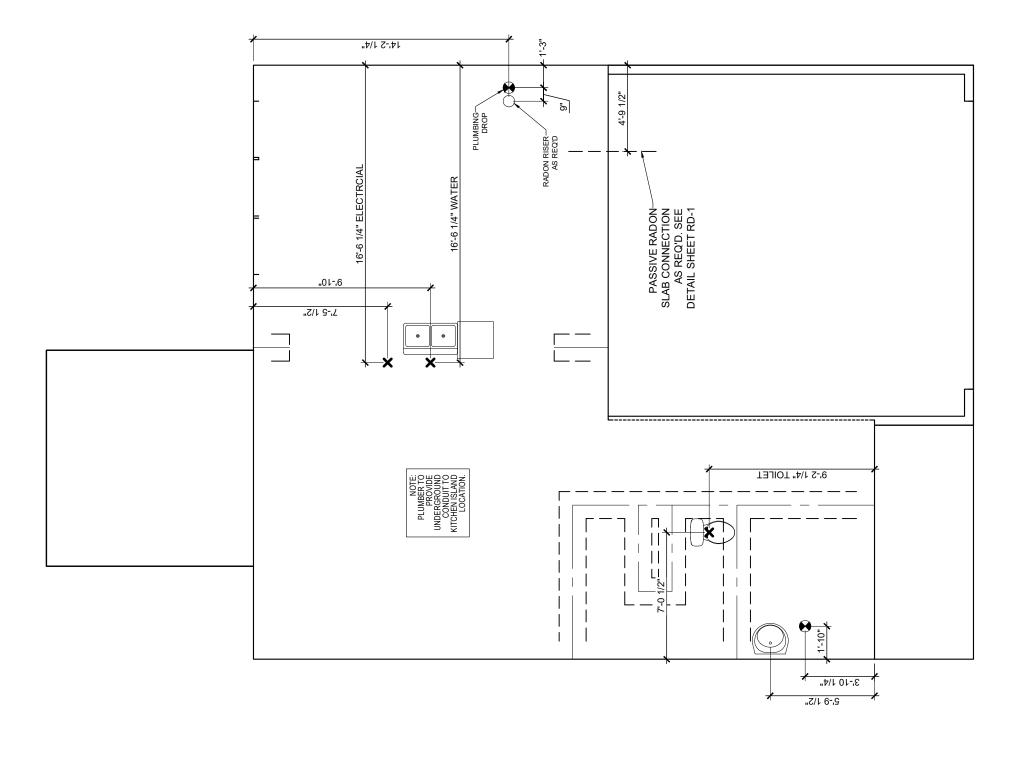
> STRUCTURAL NOTES

PLUMBING NOTES

PLUMBERS MUST KEEP PLUMBING IN GRADE BEAM AREAS TO A
ORDER TO ENSURE PROPER STRUCTURAL INTEGRITY OF THE BUILDING, FAILURE TO DO WILL RESULT IN REINSTALLATION OF PLUMBING IN THESE AREAS.

REQUIRED PLUMBING VENTS MUST ALSO BE INSTALLED AND ROUTED TO VENT ON THE REAR SIDE OF THE HOUSE IN ORDER TO PREVENT AN UNSIGHTLY FRONT ELEVATION.

*DIMENSIONS ARE TO **OUTSIDE FACE OF STUDS** AND DO NOT ACCOUNT FOR BRICK VENEER*



UNDER SLAB PLUMBING PLAN

GREAT () thern PRO+

McCLEAN II B

JES/TW DRAWN CHECKED DATE PROJ. NO

PRINTED

5 JSC 6 (jes) 7 JSC 01/31/24 03/4/24 05/09/24

DESCRIPTION TUBS/SHOWERS FIREPLACE Lighting / Vanity update FOOTINGS @ PWDR. ROOM (5)(a)(b)."

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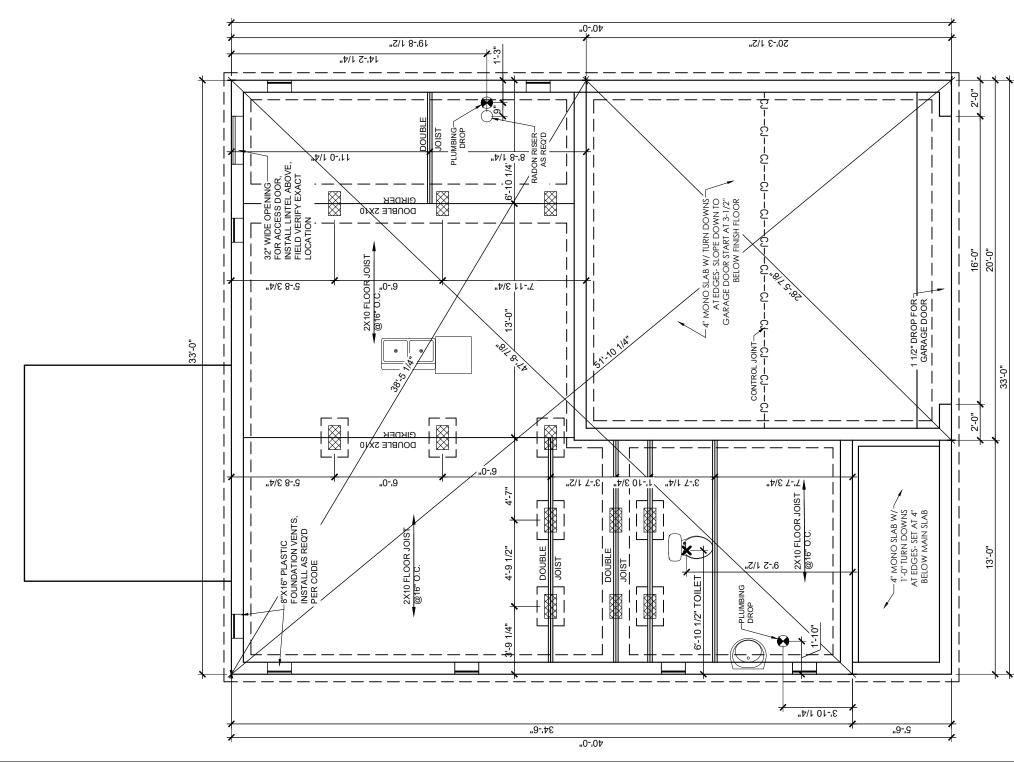
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GREATSOUTHERN HOMES CAN NOT GUARANTEE AGAINST ERRORS AND OMISSIONS EXRORS AND OMISSIONS
WITHIN THESE PLANS. THE
CONTRACTOR MUST VERIFY
ALL DIMINSIONS AND MAY
ADJUST THE CONSTRUCTION
ACCORDINGLY TO STANDARDS

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

GARAGE RIGHT

DRAWING TITLE PLUMBING PLAN



GREAT HOMES
PRO +

11.-6"

McCLEAN II B

SUNROOM

9

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CHECKED

DATE 08/10/22

PROJ. NO.

PRINTED

REVISION REVISION DATE

4 05/24/23

5 JSC 01/31/24

6 (jes) 03/4/24

7 JSC 05/09/24

DESCRIPTION
TUBS/SHOWERS
FIREPLACE
Lighting / Vanity update
FOOTINGS @ PWDR. ROOM

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 SQUARE FOOTAGE INFORMATION

 FIRST FLOOR
 .847

 SECOND FLOOR
 .1161

 GARAGE
 .402

 FRONT PORCH
 .72

 PATIO
 .138

 TOTAL HEATED
 .2008

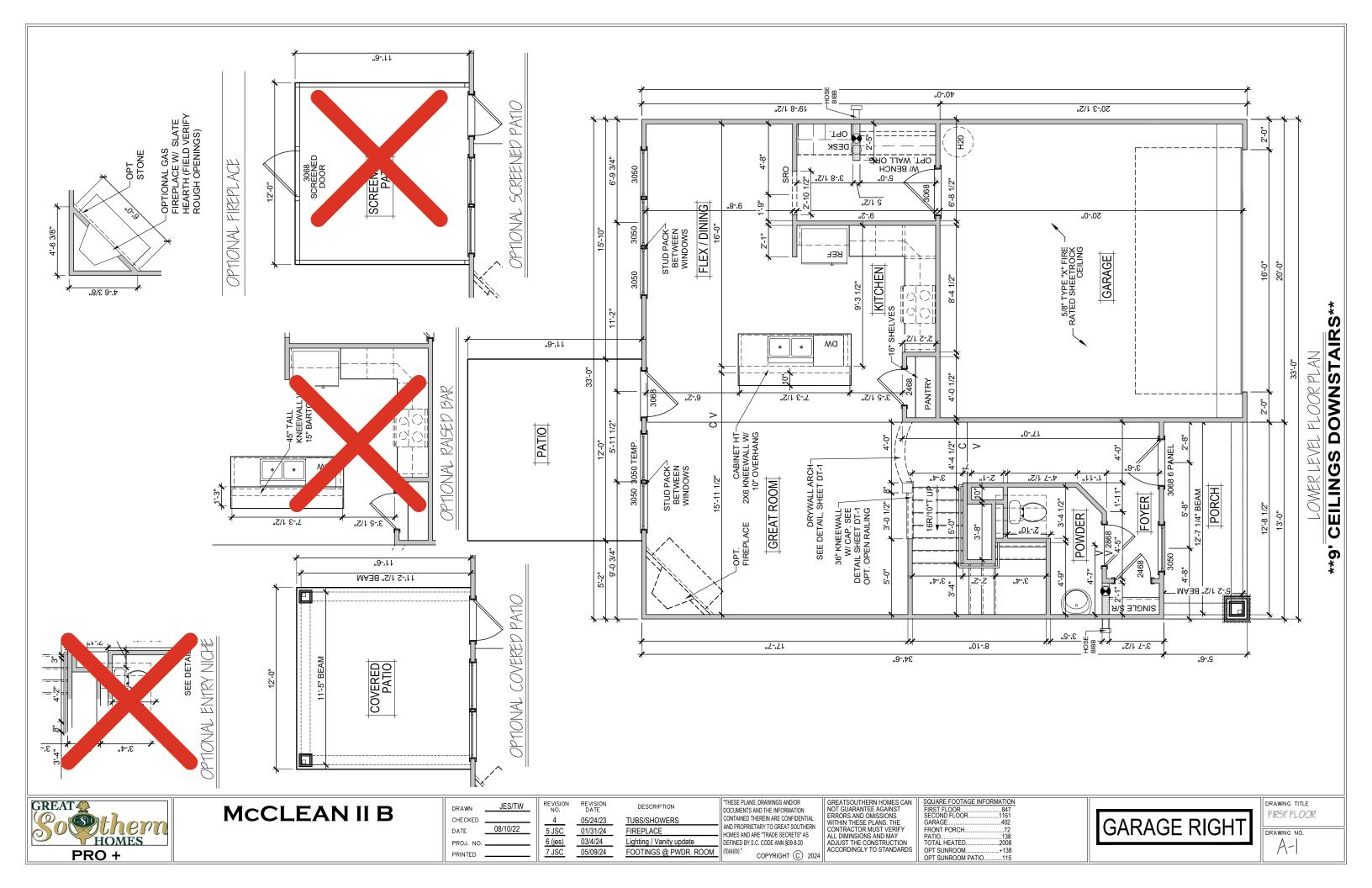
 OPT SUNROOM
 +138

 OPT SUNROOM PATIO
 .115

GARAGE RIGHT

DRAWING TITLE
RAISED SLAB PLAN

CRAWL SPACE FOUNDATION PLAN







PROJ. NO PRINTED

5 JSC 6 (jes) 7 JSC

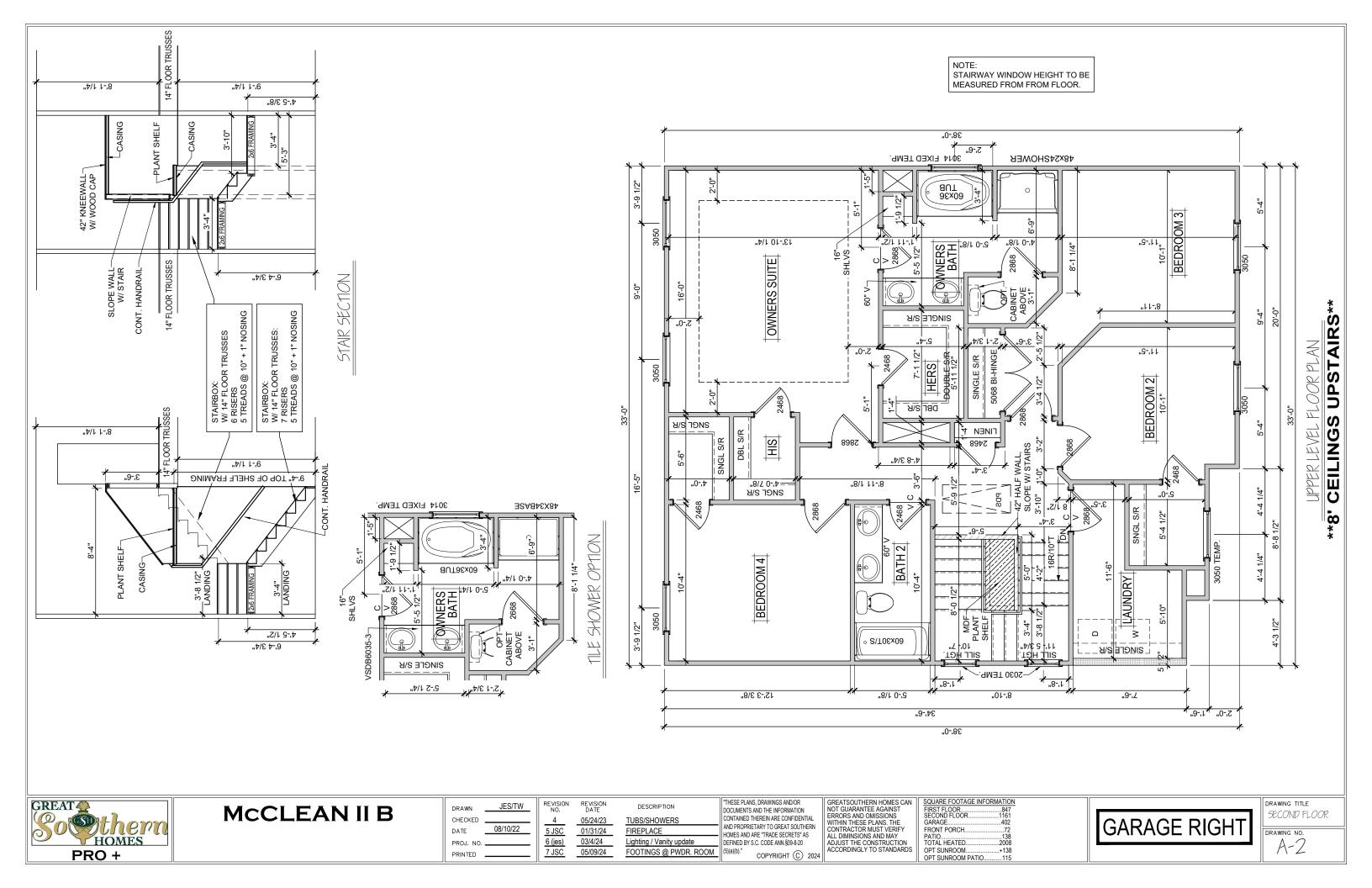
03/4/24 Lighting / Vanity update 05/09/24 FOOTINGS @ PWDR. ROOM

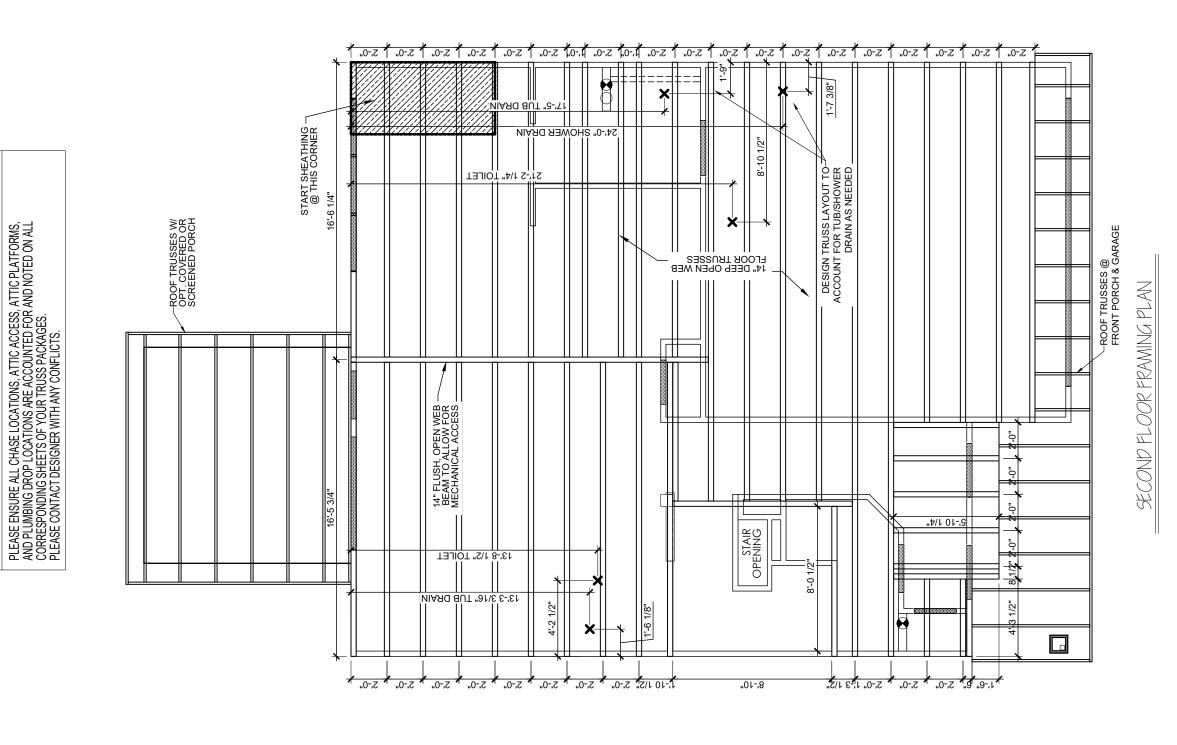
DEFINED BY S.C. CODE ANN.§39-8-20 (5)(a)(b)."

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PATIO....
TOTAL HEATED....
OPT SUNROOM....
OPT SUNROOM PATIO...

A-1b







McCLEAN II B

TRUSS MANUFACTURER

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.

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FIRST FLOOR...... SECOND FLOOR... GARAGE..... FRONT PORCH...72138 ...2008 ...+138115 PATIO....
TOTAL HEATED....
OPT SUNROOM....
OPT SUNROOM PATIO...

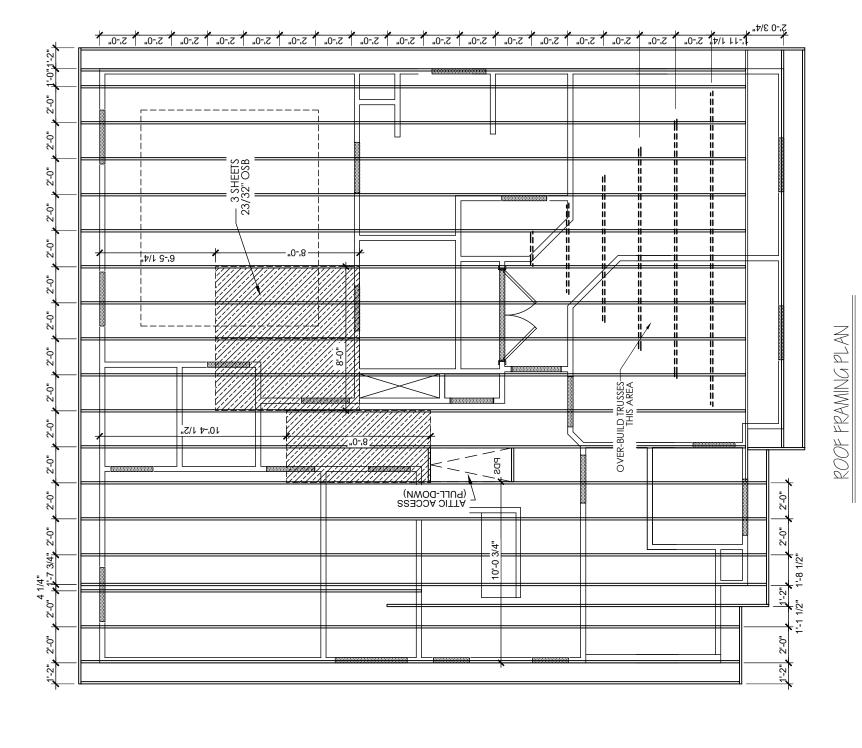
GARAGE RIGHT

DRAWING 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.



GREAT PHOMES PRO+

McCLEAN II B

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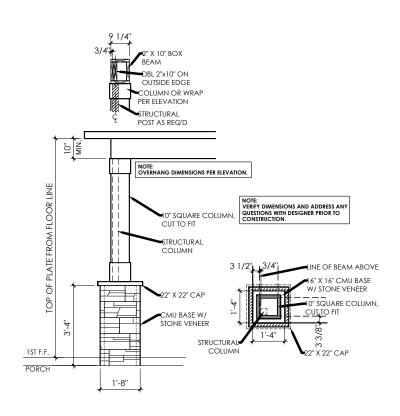
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GARAGE RIGHT

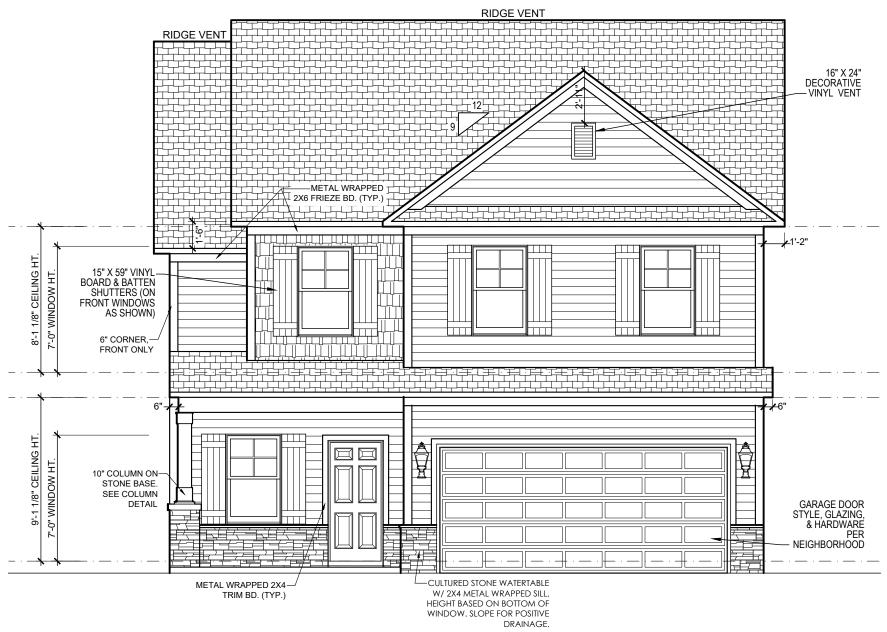
DRAWING TITLE ROOF FRAMING

DRAWING NO.

A-4



PORCH COLUMN DETAIL



ELEVATION- B - FRONT



McCLEAN II B

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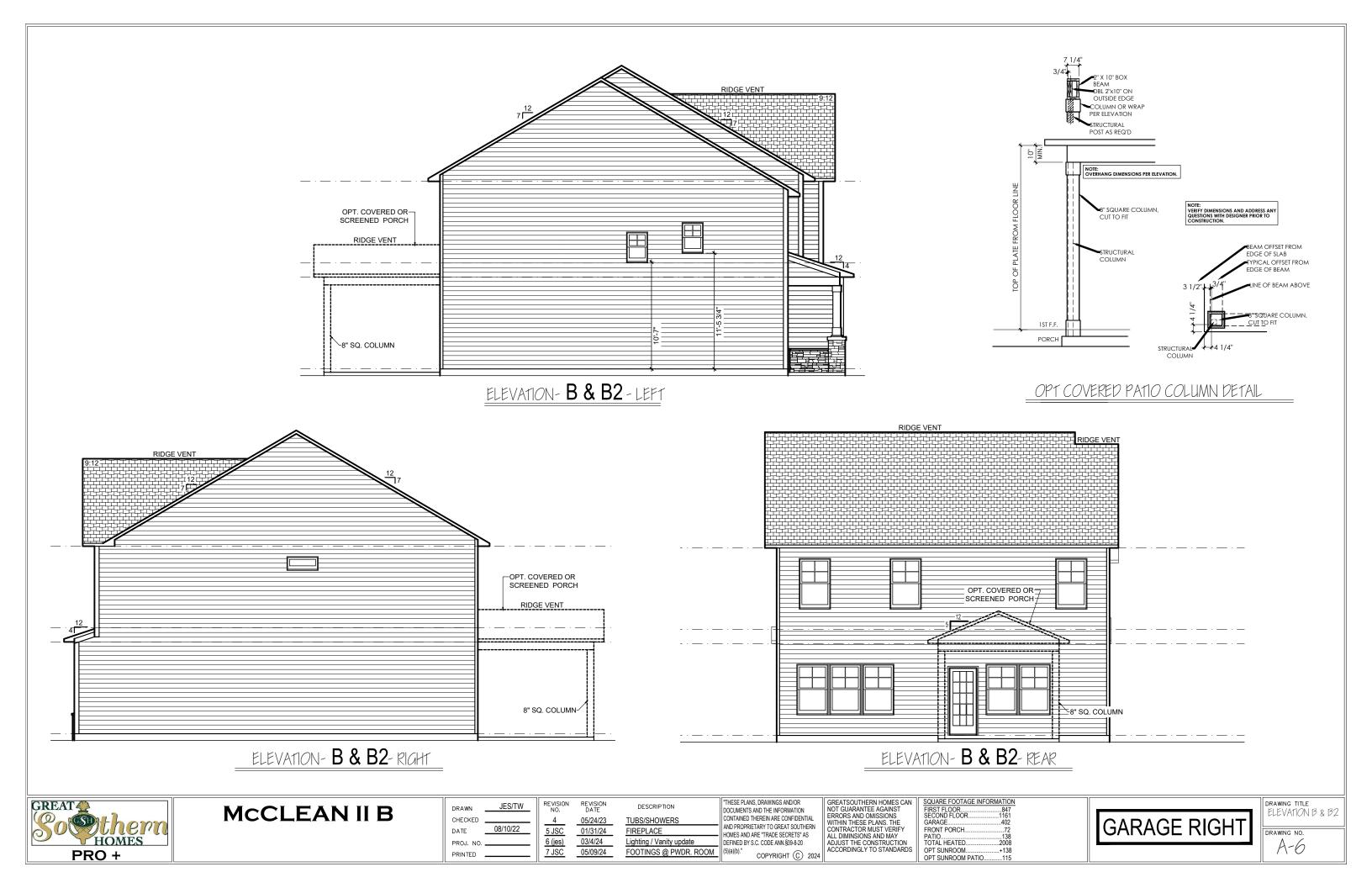
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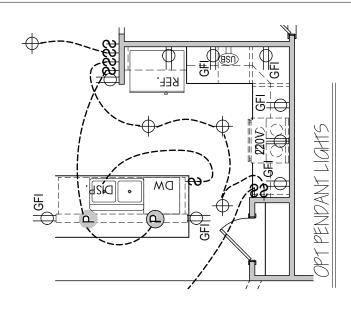
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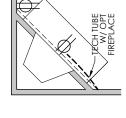
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TOTAL HEATED....
OPT SUNROOM....
OPT SUNROOM PATIO...

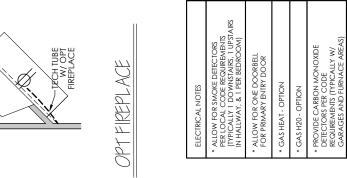
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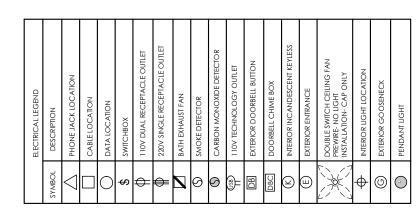
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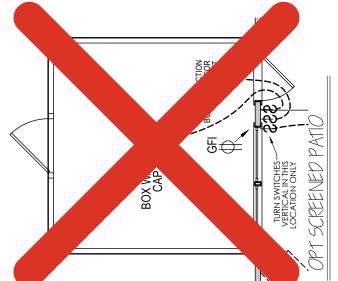


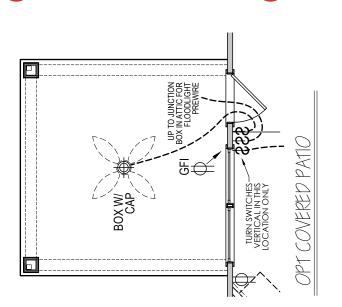


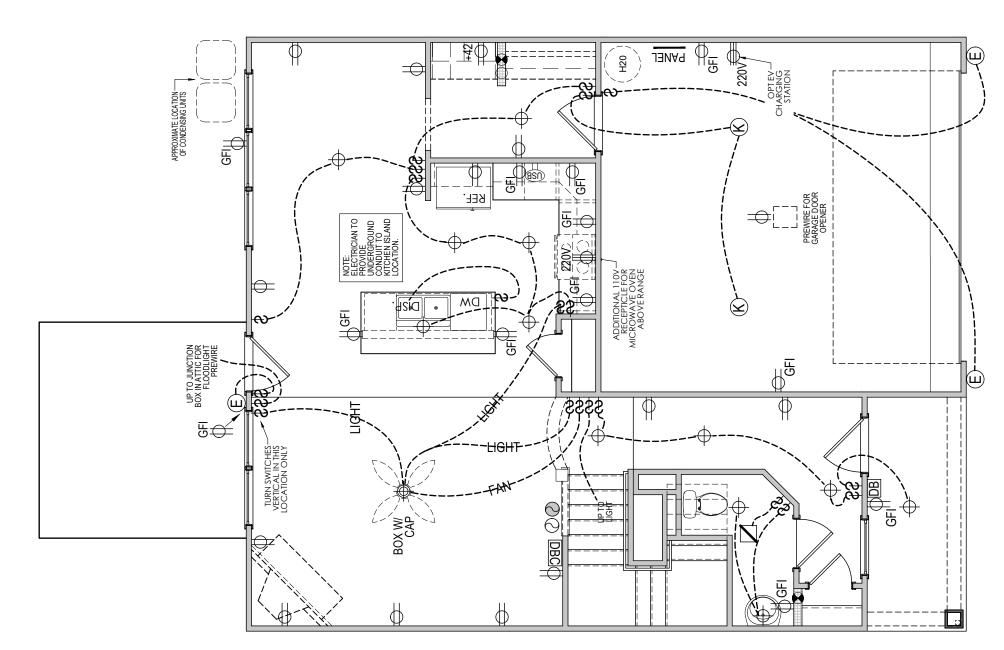












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DESCRIPTION TUBS/SHOWERS FIREPLACE Lighting / Vanity update FOOTINGS @ PWDR. ROOM

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 SQUARE FOOTAGE INFORMATION

 FIRST FLOOR
 .847

 SECOND FLOOR
 .1161

 GARAGE
 .402

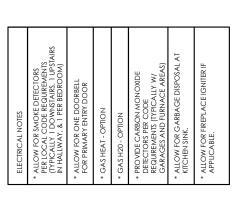
 FRONT PORCH
 .72

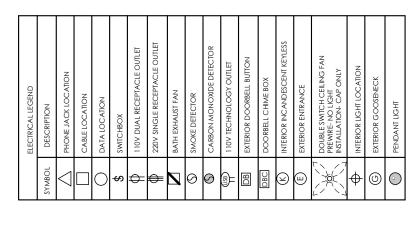
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72138 ...2008 ...+138115 PATIO....
TOTAL HEATED....
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OPT SUNROOM PATIO...

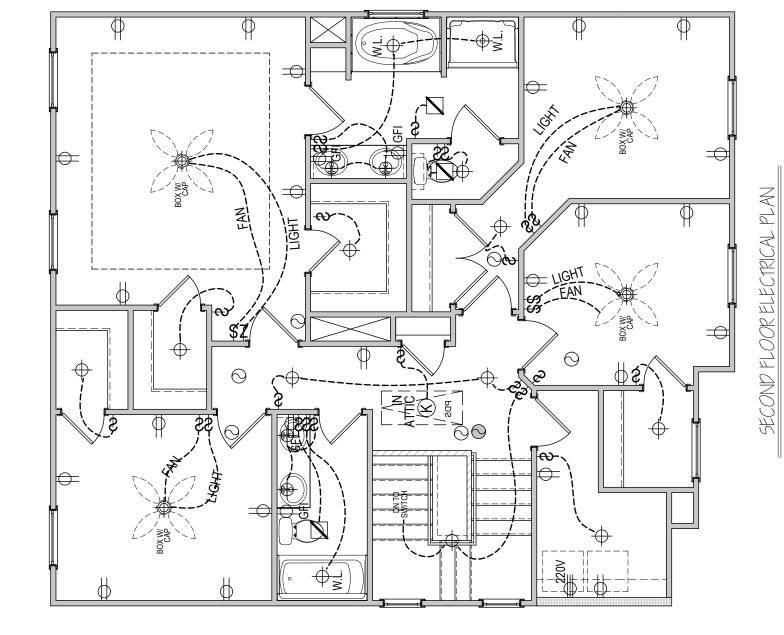
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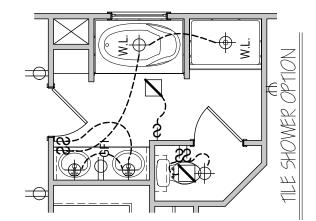
DRAWING TITLE ELEC. PLANS

FIRST FLOOR ELECTRICAL PLAN









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7 JSC 05/09

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TUBS/SHOWERS
FIREPLACE
Lighting / Vanity update
FOOTINGS @ PWDR. ROOM

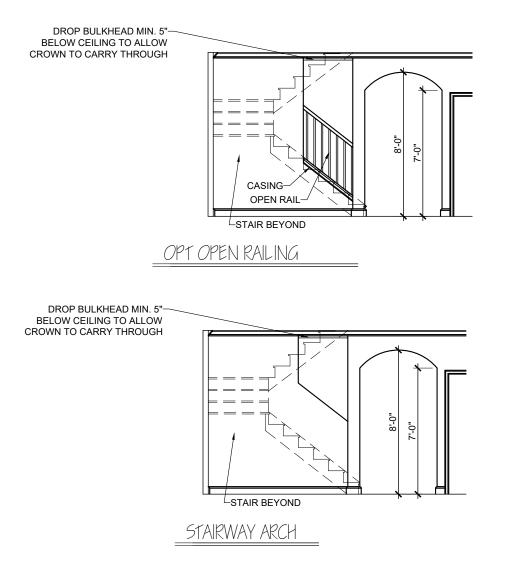
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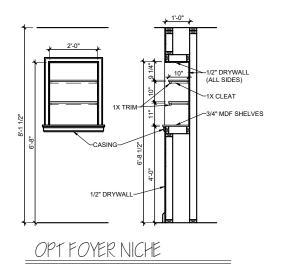
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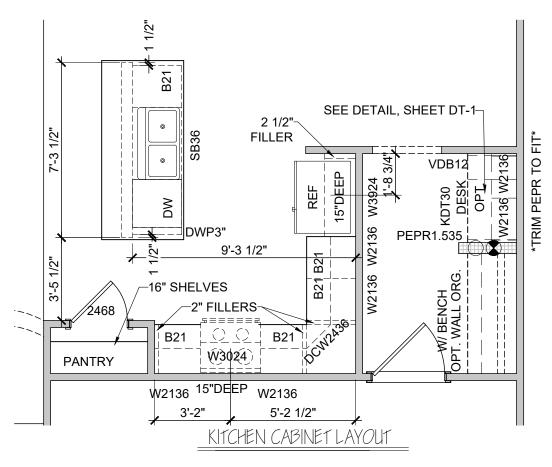
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GARAGE RIGHT

DRAWING TITLE ELEC. PLANS









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TOTAL HEATED....
OPT SUNROOM....
OPT SUNROOM PATIO...

GARAGE RIGHT

DRAWING TITLE DETAILS