



HARPER II G

DRAWN JES

CHECKED

DATE 07/12/22

PROJ. NO.

PRINTED

REVISION REVISION DATE

2 10/3/22
3 6/21/23
4 JSC 1/24/24
5 (jes) 3/5/24

DESCRIPTION

CABS

UPDATE TUBS/SHOWERS

FIREPLACE

lighting / vanity update

THESE PLANS, DRAWINGS AND/OR
DOCUMENTS AND THE INFORMATION
CONTAINED THEEREN RARE CONFIDENTIAL
AND PROPRIETARY TO GREAT SOUTHERN
HOMES AND ARE "TRADE SECRETS" AS
DEFINED BY S.C. CODE ANN \$39-8-20

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

 SQUARE FOOTAGE INFORMATION

 FIRST FLOOR
 801

 SECOND FLOOR
 1075

 GARAGE
 363

 FRONT PORCH
 52

 PATIOICOVERED PORCH
 138

 TOTAL HEATED
 1876

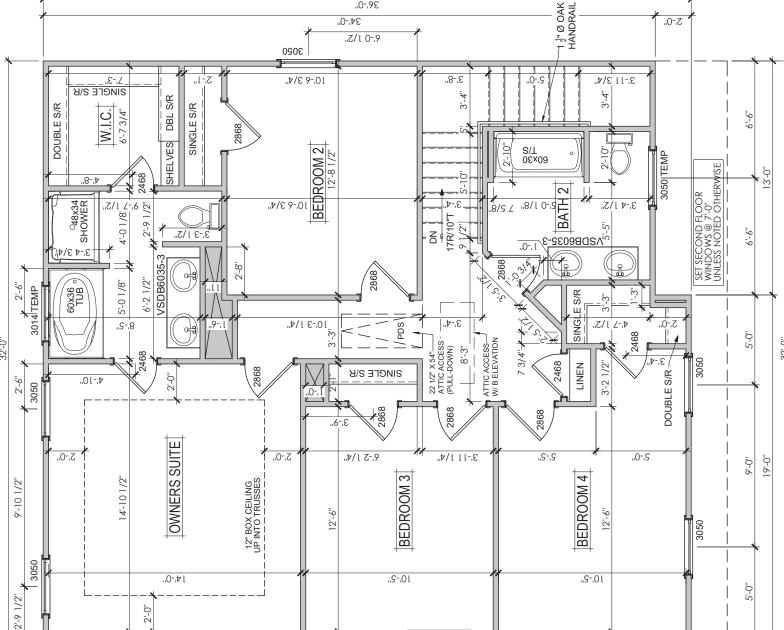
GARAGE LEFT

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FIRST FLOOR

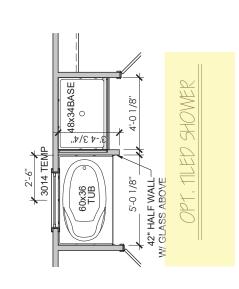
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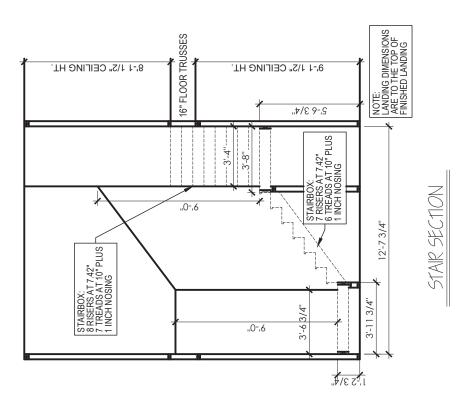
UPSTAIRS** CEILINGS . * *

OOR PL JPPER LEVEL



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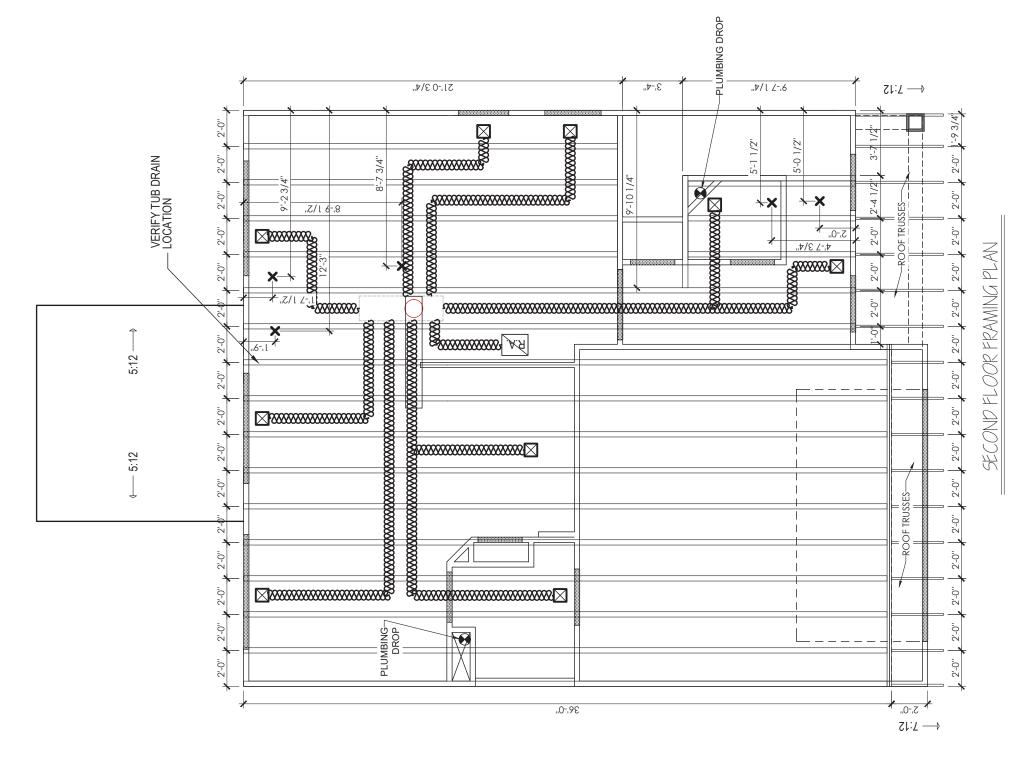
FRAMING NOTES

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.

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.





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ACCORDINGLY TO STANDARDS

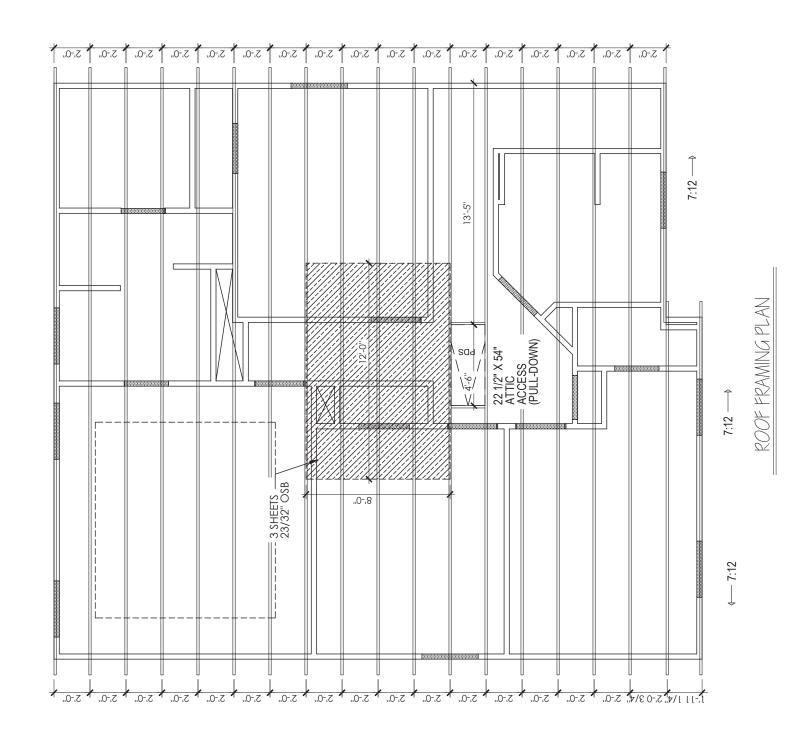
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FRONT PORCH.
TOTAL HEATED...

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 801

 SECOND FLOOR
 1075

 GARAGE
 363

 FRONT FORCH
 52

 PATIO/COVERED PORCH
 138

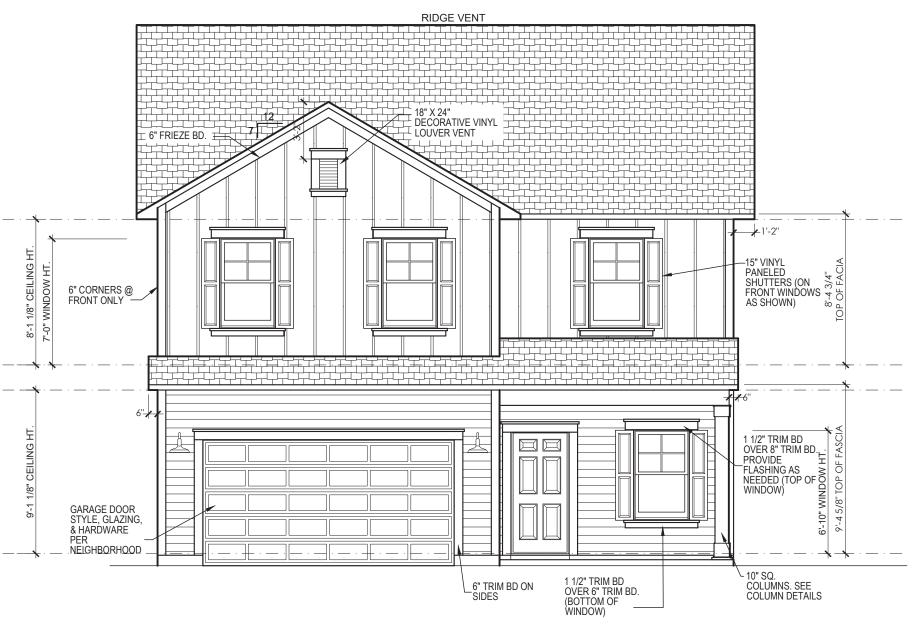
 TOTAL HEATED
 1876

GARAGE LEFT

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ROOF FRAMING

NOTE

 ** ALL OVERHANGS TO BE 1'-2" FROM OUTSIDE OF FRAMING UNLESS OTHERWISE NOTED.



ELEVATION- G-FRONT



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GARAGE LEFT

DRAWNG TITLE ELEVATION G

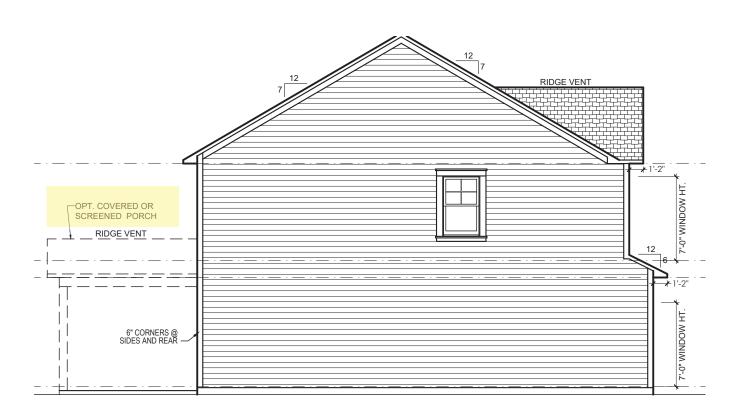
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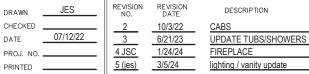
** ALL OVERHANGS TO BE 1'-2" FROM OUTSIDE OF FRAMING UNLESS OTHERWISE NOTED.

SEE SHEET DT-2 & DT-3 FOR SUNROOM OPTION DETAILS



ELEVATION- G-LEFT

HARPER II G



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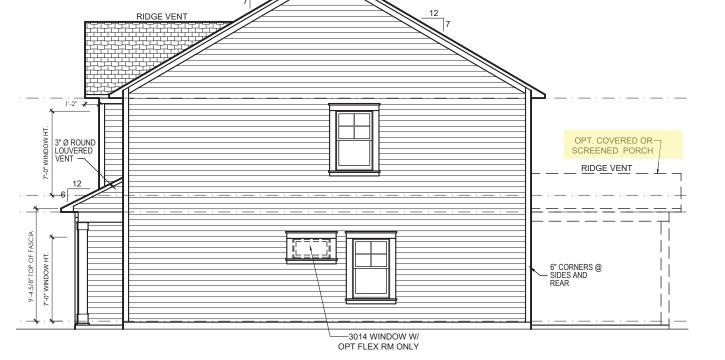
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SECOND FLOOR 1075
GARAGE 363
FRONT PORCH 52
PATIO/COVERED PORCH 138
TOTAL HEATED 1876

GARAGE LEFT

DRAWING TITLE

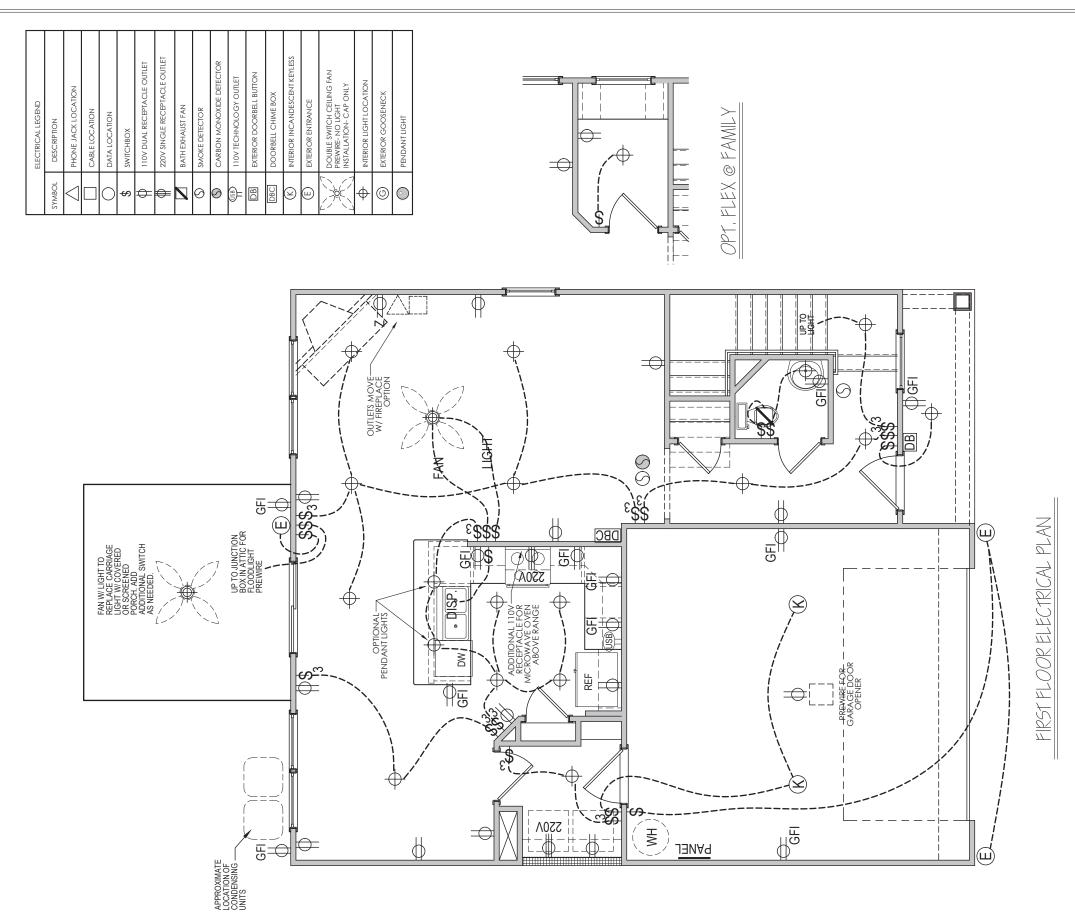
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ELEVATION G



ELEVATION- G-RIGHT







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 SECOND FLOOR
 .1075

 GARAGE
 .363

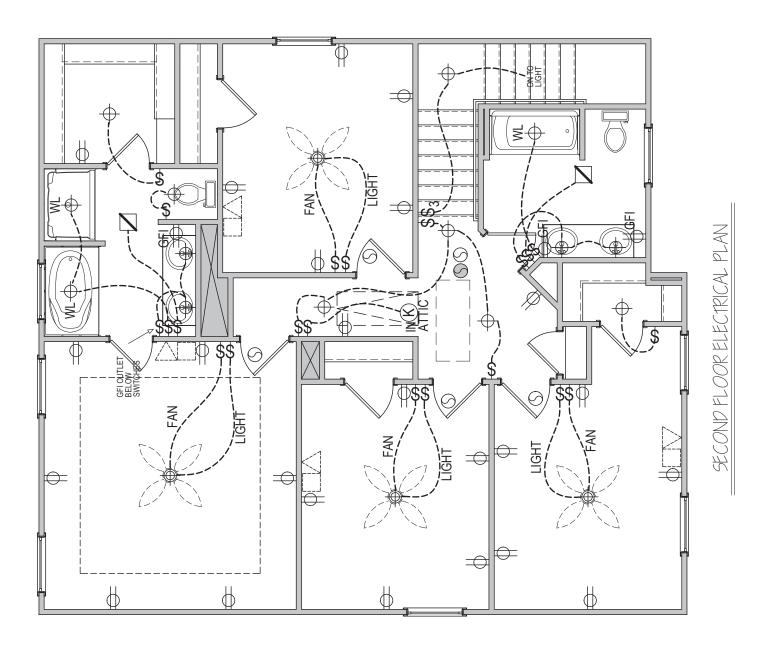
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 PATIO/COVERED PORCH
 .138

 TOTAL HEATED
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DRAWING TITLE ELEC. PLANS



GREAT HOMES
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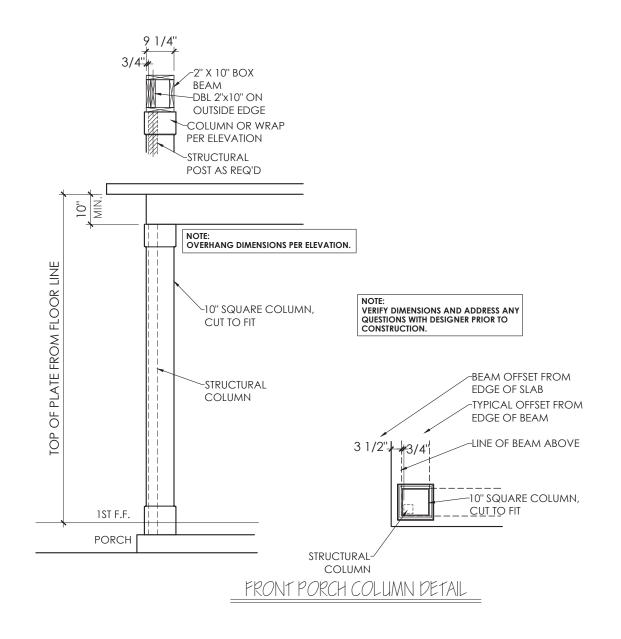
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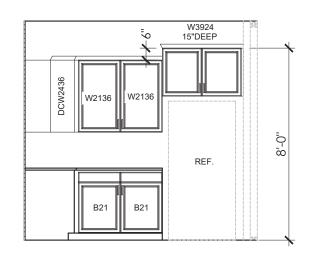
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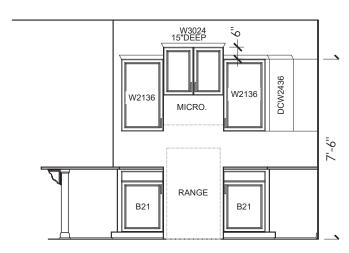
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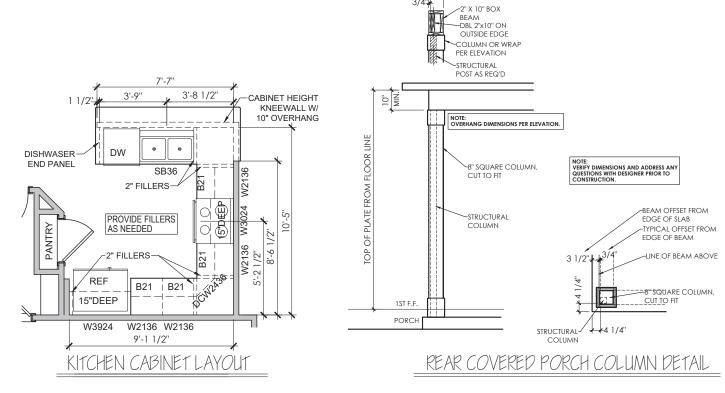
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lighting / vanity update

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GARAGE LEFT

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DETAILS

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

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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,

- RESDENTIAL CODE, 2018 EDITION.

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

 WITHIN 1-0" FROM END OF EACH CORNER.
 ANCHOR BOLTS MUST EXTEND A WINNIUM OF 7"
 INTO MASORIY OR CONCRETE. LOCATE BOLT WITHIN

 MODIC THIRD OF PLATE WOTH.

 MEAN ROOF HEIGHT IS LESS THAN 30 FEET.

 EXTERIOR WALLS DESIGNED FOR 120 MFH MINDS.

 WALL CLADION DESIGNED FOR 152 MFH MINDS.

 WALL CLADION DESIGNED FOR 155, PSF AND -20

 PSF (4/- MODICATE POSITIVE / NEGATIVE

 DESIGNED FOR THE 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
- SEE INE WALL BRAUME NOVES AND DEFINES SPILE FOR MORE INFORMATION.
 ENERGY EFFICIENCY COMPLIANCE AND INSULATION AULUSES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NGCR, 2018 EDITION.
 D. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

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

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL ENGINEER'S SEAL APPLIES ONLY IN STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. STRUCTURAL DESIGN PER NORTH CAROLINA
- CONSIDERATION TO CHAPTER 45 ("HIGH WIND ZONES" FOR 150 MPH WINDS).
 BUILDER IS TO PROVIDE FRAMING CONNECTIONS
 AS REQUIRED BY CHAPTER 45 ("HIGH WIND

RESIDENTIAL CODE, 2018 EDITION WITH SPECIAL

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

LEGEND CONT CONTINUOUS XJ EXTRA JOIST DJ DOUBLE JOIST TJ TRIPLE JOIST EA EACH FDN FOUNDATION FTG FOOTING OC ON CENTER SYP SOUTHERN YELLOW PINE TRTD PRESSURE TREATED UNO UNLESS NOTED OTHERWISE

SPE SPRUCE PINE FIR

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11/17/2023

S. THE

HARPER II - N.C. GREAT SOUTHERN HOMES

ATE: NOVEMBER 17, 2023 ALE: 1/4" = 1'-0" DRAWN BY: GREAT SC NEERED BY: WFB

CRAWL FOUNDATION PLAN

CARO

ELEVATIONS A & G

-8" FDN. ON 16" WIDE BY 8" DEEP CONT.

CONC. FTG. REINFORCED w/ THREE #4

REBAR (OR TWO #5 BARS) AT 3" ABOVE THE BOTTOM OF THE FTG. SPLICES MUST

BE OVERLAPPED 25" MIN. (TYP.)

BRICK VENEER

(4) 2 x 10 GIRDER DROPPED

(TYP.) w/ OPT BRICK VENEER

DECK OR OPTIONAL

COVERED/SCREENED PORCH

24" x 24" x 10" CONC.

24" x 24" x 10" CONC.

SCREENED PORCH

FTG. w/ OPT. COVERED OR

FIELD LOCATE

18" x 24" CRAWL ACCESS (MIN.) PER GRADE

-FTG. w/ OPT. COVERED OR SCREENED PORCH

6 x 6 TRTD. POST MIN. ON 18" x 18" x 10" CONC.

CONC. FTG. (TYP.), OR FOR "HIGH WIND ZONES" 8" FDN. ON 24" WIDE BY 8" DEEP CONT.

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(4) 2 x 10 GIRDER DROPPED

KITCHEN CABINETS

(3) 2 x 10 GIRDER DROPPED (TYP. UNO)

16" x 16" CMU PIER -ON 30" x 30" x 10" FOR OPTIONAL BRICK:
12" FDN. ON 20" WIDE BY 8" DEEP CONT.

OR FOR "HIGH WIND ZONES" 12" FDN. ON

24" WIDE BY 8" DEEP CONT. CONC. FTG.

REINFORCED WITH THREE #4 REBAR (OR

TWO #5 BARS) AT 3" ABOVE THE BOTTOM

OPTIONAL BRICK VENEER (TYP.)

24" x 24" x 10" CONC. FTG.

24" × 24" × CONC. FTG.

BRICK VENEER

x 50" x 10" 3'-0"

30" x 50" x 10"

25" MIN. (TYP.)

OF THE FTG. SPLICES MUST BE OVERLAPPED

BRACED WALL DESIGN PER SECTION R602.10.5 "WALL BRACING BY ENGINEERED DESIGN" OF THE NCRC

SHEATH ALL EXTERIOR WALLS $w/7/16^\circ$ OSB to provide CS-WSP wall bracing that will brace the structure for all lateral loads as required by the NCRC 2018 edition.

INSTALL 7/16" OSB ON ALL EXTERIOR WALLS ATTACHED w/ 8d NAILS SPACED 6" O.C. ALONG PANEL

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"

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.

LINTEL SCHEDULE FOR

BRICK/NATURAL STONE SUPPORT

LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN

BRICK VENEER (UNO), SEE ARCH DWGS, FOR SIZE

EMBED ALL ANGLE IRONS MIN. 4" FACH SIDE INTO

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.

ENGINEERED BY OTHERS MAY BE USED IN LIEU

PRECAST REINFORCED CONCRETE LINTELS

OF STEEL LINTELS.

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

4 x 4 TRTD. POST MIN.

SCREENED PATIO

OPTIONAL

COVERED/SCREENED PATIO

w / OPTIONAL COVERED

(2) 2 x 12 (TYP.)

LONG 5d COOLER NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD.

LENGTH (FT.)

UP TO 4 FT.

8 AND GREATER

BRICK SUPPORT NOTES:

AND LOCATION OF OPENINGS. (LLV) = LONG LEG VERTICAL

LENGTH = CLEAR OPENING

VENEER TO PROVIDE BEARING.

CS-WSP REFERS TO "CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANELS." CONTRACTOR IS TO

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.

BRACED WALL DESIGN NOTES:

EDGES AND 12" O.C. IN THE FIELD.

SCALE NOTE:

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



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.C. HOMES

HARPER II - N. GREAT SOUTHERN

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- . 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
- STUD AND (2) KING STUDS EA. END (UNO.). SEE TABLE THIS SHEET FOR ADDITIONAL KING STUD REQUIREMENTS
- ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS w/ SIMPSON ABU44
- JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG PANEL
- 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.

150 MPH ULTIMATE DESIGN WIND SPEED STRUCTURAL NOTES

- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO
- GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)
- 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.

3. ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO). 4. EXTERIOR WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK

- 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
- ALL EXTERIOR WALLS TO BE SHEATHED WITH 7/16" OSB SHEATHING WITH
- EDGES AND 6" O.C. IN THE FIELD. SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES,
- 10. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL

STUDS OR HIGH WIND ZONES, (3) 2 x 6 BALLOON FRAMED KING STUDS. EXTERIOR WALLS IN 150 MPH WIND ZONES

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

MINIMUM NUMBER OF FULL HEIGHT KING

STUDS AT EACH END OF HEADERS IN

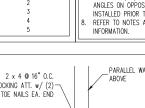
120 MPH ULTIMATE DESIGN WIND SPEED STRUCTURAL NOTES:

- 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.
- 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 ALLMINUM OR COLUMN FNG 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
- 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

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	



	CONT	CONTINUOUS
	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

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

> S-2a SECOND FLOOR FRAMING PLAN

PARALLEL WALL BLOCKING ATT. w/ (2)-12d TOE NAILS EA. END FLOOR TRUSSES AS SPECIFIED -CONT. 2 x 4 SCAB 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.

ELEVATIONS A & G

NO STRUCTURAL CHANGES

ΩΡΤΙΩΝΔ

SINGLE WINDOW w/ OPT.

FIREPLACE: (2) 2 x 10 w/ (2) JACKS EA. END

FIREPLACE

OPTIONAL FLEX

2 x 6 @ 12" O.C.

BALLOON FRAMED

2-STORY STAIR WALLS

4 x 4 TRTD. POST MIN. (TYP.)

ROOF TRUSSES

ENGINEERED

BY OTHERS

SEE MET DETAIL

(2) 2 x 6 BALLOON FRAMED KING

CAR ************

ROOF TRUSSES

ENGINEERED ~

BY OTHERS

11/17/2023

INSTALLED PRIOR TO SETTING COLUMN. LEGEND

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 4-8 8 AND GREATER L 6 x 4 x 5/16 LLV

GIRDER TRUSS ENG. BY OTHERS w/ ELEVATIONS C & H

ROOF TRUSSES ENGINEERED

BY OTHERS w/ ELEVATIONS C & 1

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) 120 mails 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 ncrc for additional brick support information.

PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

2 x 6 @ 12" O.C. BALLOON FRAMED 2-STORY STAIR

WALLS FROM BELOW

SCALE NOTE:

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



ON CONTRACTOR

ഗ ERING, S. THO

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.

DRACED WALL DESIGN IS NOT PROCEEDING.

S 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 FDGES AND 12" O.C. IN THE FIELD

EDGES AND 12 OLC. IN THE FIELD.

OB REFERS TO "EYPSUM BOARD." CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM BOARD ON BOTH SIDES OF WALL WHERE NOTED ON THE PLANS ATTACHED WITH 1 1/4" LONG #6 SCREWS OR 1 5/8" LONG 5d COOLER NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD.

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

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

MINIMUM NUMBER OF FULL HEIGHT KING 150 MPH ULTIMATE DESIGN WIND SPEED STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS IN 150 MPH WIND ZONES STRUCTURAL NOTES

2.1.2.1.0.1.1.1.1.0.0.1.1.1.1.1.1.1.1.1.				
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			

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 SYP #2 (UNO.)

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

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

	HEADERS IN EXTERIOR WALLS		1
HEADER SPAN (FEET)	MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)		1
UP TO 3'	1		l
> 3' TO 6'	2		4
> 6' TO 9'	3		l
> 9' TO 12'	4	-	1
> 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.

4. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GRDER OR FOUNDATION. SQUARES TO BE (2) STUDS (UNO.)

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

ELEVATIONS A, B & G

ELEVATIONS C & H

EW G.

Ш	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				

NEERED BY: WFB

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

HARPER II - N.C. GREAT SOUTHERN HOMES

S-3a ATTIC FLOOR FRAMING PLAN

11/17/2023

2 x 6 @ 12" O.C. BALLOON FRAMED 2-STORY STAIR

WALLS FROM BELOW

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 TRUSS SUPPORT XR EXTRA RAFTER
RS RAFTER SUPPORT CONT CONTINUOUS EA EACH OC ON CENTER

SPF SPRUCE PINE FIR

SYP SOUTHERN YELLOW PINE

TYP TYPICAL UNO UNLESS NOTED OTHERWISE

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

> S-4a ROOF FRAMING

ROOF TRUSSES ENGINEERED ROOF TRUSSES - ENGINEERED BY OTHERS **OPTIONAL** ROOF TRUSSES ROOF TRUSSES ENGINEERED - ENGINEERED BY OTHERS OPTIONAL SUNROOM w/ COVERED/SCREENED PATIO COVERED/SCREENED PATIO OR SUNROOM

ELEVATIONS A & G

11/17/2023

I.S. THOMPS ENGINEERING, BESTEIN POKES KOAD, SUITE BO FAILE

ON CONTRACTOR

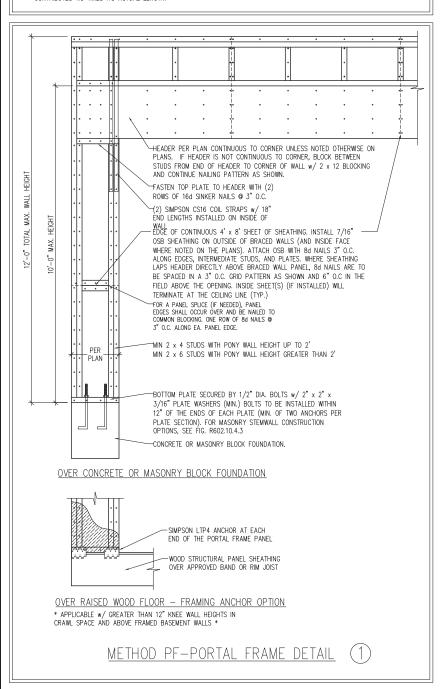
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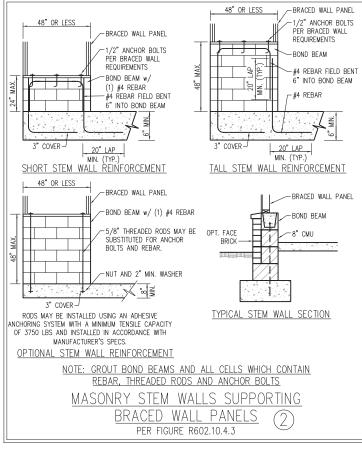
HARPER II - N.C. GREAT SOUTHERN HOMES

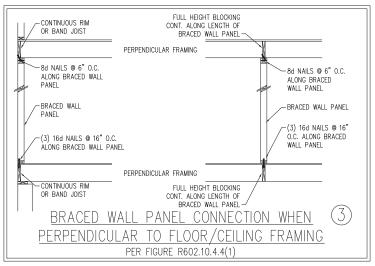
GENERAL WALL BRACING NOTES:

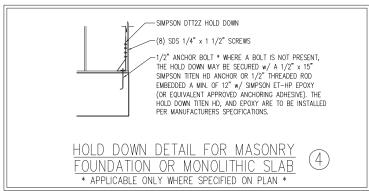
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND
- FIGURES REFERENCED ARE FROM THE 2018 NORC.
 SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NORC FOR ADDITIONAL INFORMATION AS NEEDED.
- BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES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

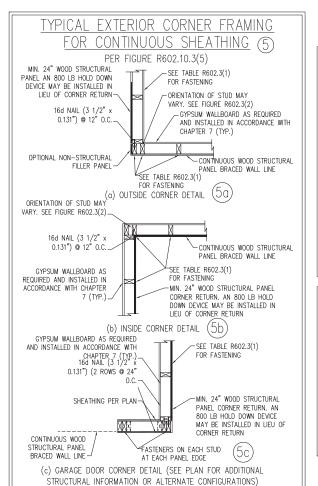
 GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN.) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH
 SIDES OF THE BRACED WALL FASTENED WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 7" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (U.N.O.). VERIFY ALL FASTENER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

MEMBER DIRECTLY ABOVE BRACED WALL PANEL

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

BRACED WALL PANEL

-BRACED WALL PANEL

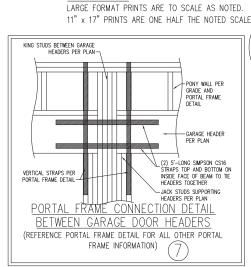
-(3) 16d NAILS @ 16" O.C.

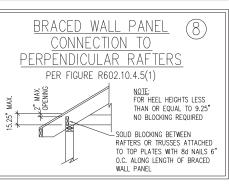
ADDITIONAL FRAMING

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"

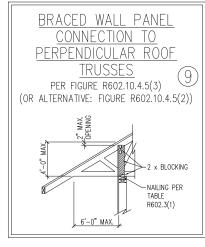
MEMBER

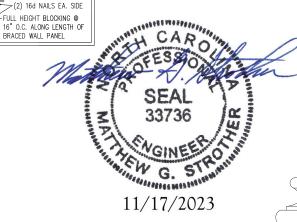
O.C. AT EA. BLOCKING

BRACED WALL PANEL

BRACED WALL PANEL

6" O.C. ALONG LENGTH OF





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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

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 OF
- 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 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 NEWBER 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 RESIDENTIAL CODE 2018 EDITION.
- 7. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (UNO). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR FOILAL JENGTHS (INO)
- 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 R703.8.2.1 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 (IND)
- 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 L'IS12 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 CONNECTE FOUNDATION USE SIMPSON POST BASE.

STHOMPSON

VGINEERING, INC.

STSK, SUTTER STREET, NO. 276

PHORE, (919) 789-9921

N.C. LICENSE NO. C. C. 733

STANDARD STRUCTURAL NOTES

SEAL
33736
SEAL
31/17/2023

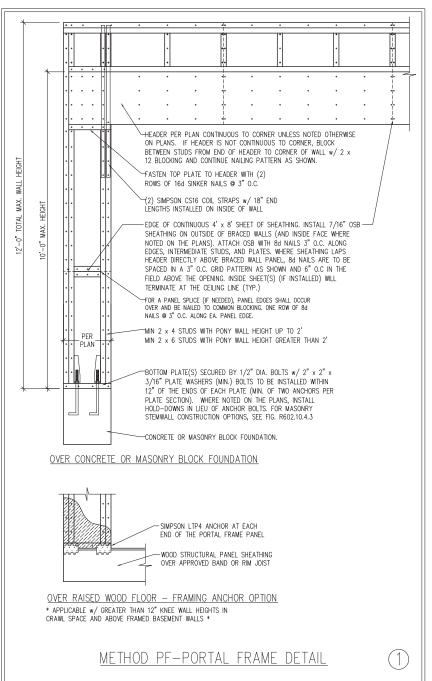
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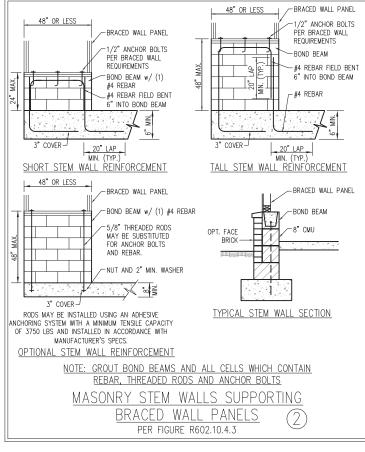
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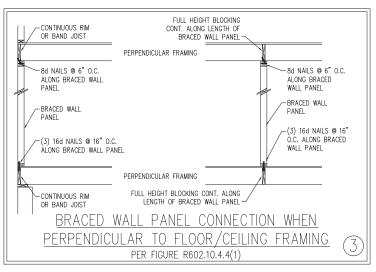
> STRUCTURAL NOTES

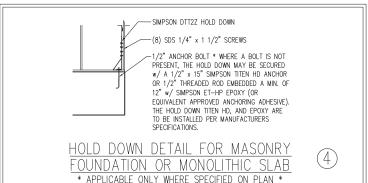
GENERAL WALL BRACING NOTES:

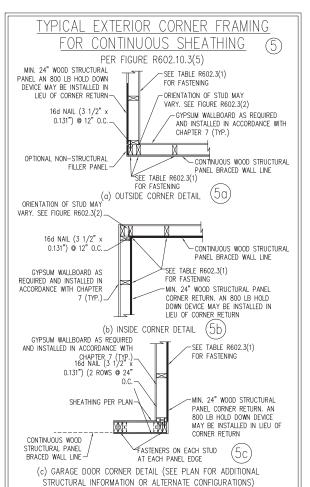
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 AND CHAPTER 45 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
 SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.
- 3. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, AND ANY SPECIAL NOTIES OR REQUIREMENTS.
 4. ALI EXTERIOR WALLS ARE TO BE SHEATHED WITH 7/16" OSR WITH BLOCKING AT ALL SHEATHING JOINTS AND BUINDING B
- ALL EXTENDER WALLS ARE TO BE SHEATHED WITH 7/16 OSB WITH BLOCKING AT ALL SHEATHING JOINTS AND 80 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 SILL PLATES THEIR FULL DEPTH.
- 6. ALL EXTERIOR WALLS TO BE SHEATHED ON INSIDE FACE WITH 1/2" GYPSUM BOARD PER TABLE R702.3.5 (UNO).

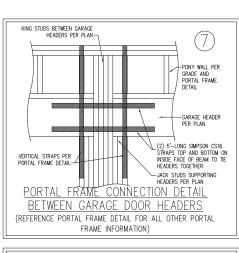


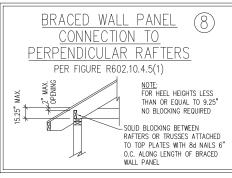












- FULL HEIGHT BLOCKING @

TOF NAIL (3) 8d NAILS AT

EA. BLOCKING MEMBER

BRACED WALL PANEL

-(3) 16d NAILS @ 16"

MEMBER

O.C. AT EA. BLOCKING

(2) 16d NAILS EA. SIDE

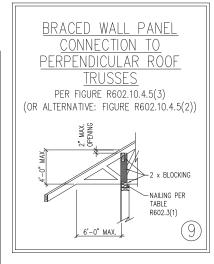
FULL HEIGHT BLOCKING @

16" O.C. ALONG LENGTH OF

BRACED WALL PANEL

BRACED WALL PANEL

6" O.C. ALONG LENGTH OF



DATE: AUG
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11/17/2023

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

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S. T. S. T. B. S. B. S.

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DATE: AUGUST 30, 2022

SCALE: NTS

DRAWN BY: JST

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D-2 BRACED WALL NOTES AND DETAILS AND PF DETAILS

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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

-CONTINUOUS RIM w/ FINGER

JOISTS OR DBL. BAND JOIST

- 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

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 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.

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.
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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

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- 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 NEWBER 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 RESIDENTIAL CODE 2018 EDITION.
- 7. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (UNO). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM 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.

STANDARD STRUCTURAL NOTE

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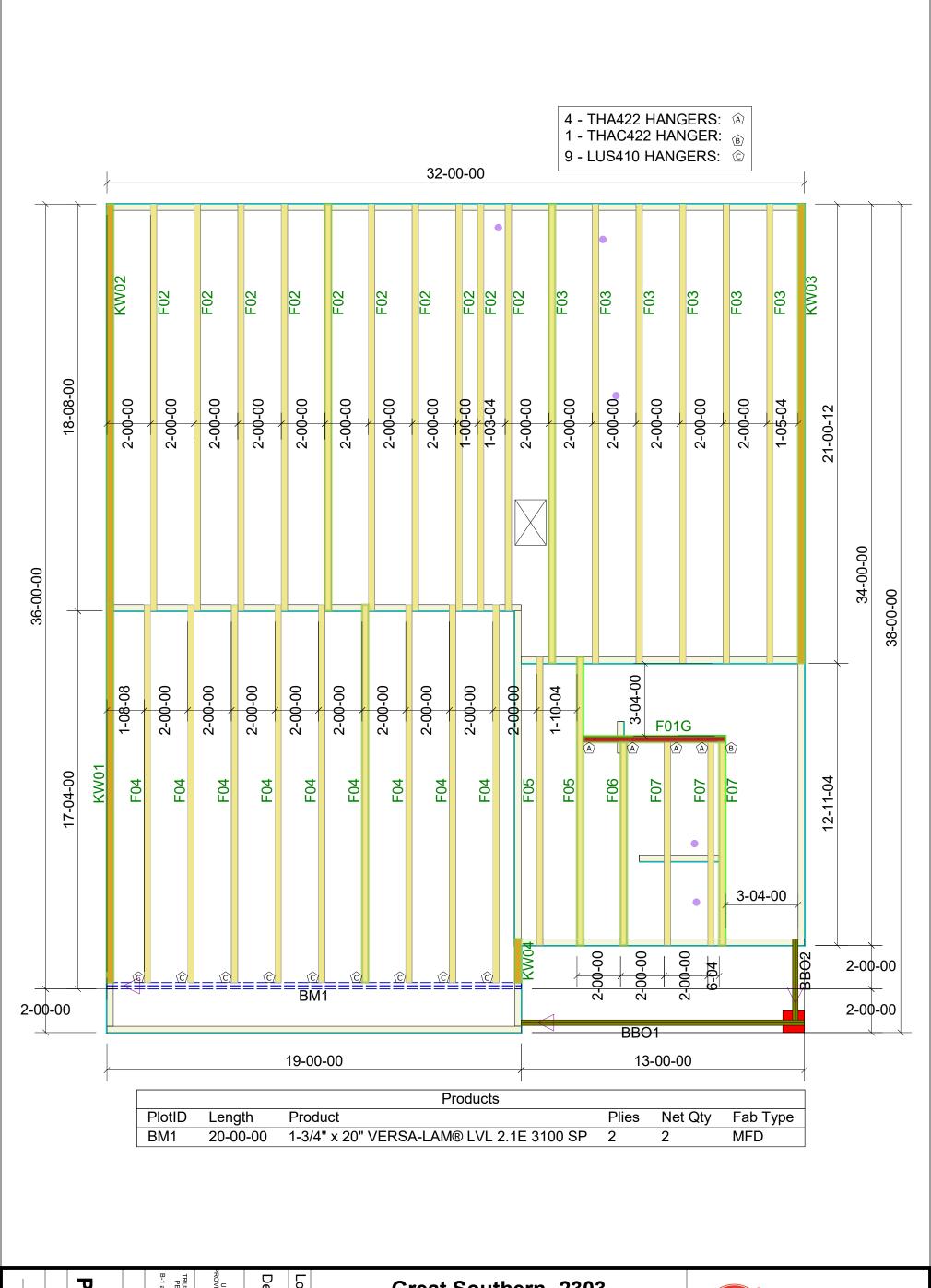
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STANTON
11/17/2023

TE: AUGUST 30, 2022

DRAWN BY: JST
ENGINEERED BY: JST

STRUCTURAL NOTES



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5/23/2024	NOT TO S DESIGNED	ceme	—	ALLATION REGINT BRACING. PROVIDED IN THESE ARE IN YOUR TRUE	DO NOT CUT, NOTCH, OR BORE HOLES UNLESS SPECIFIC, WRITTEN PERMISSION IS VIDED BY AN AUTHORIZED REPRESENTATIV 84 LUMBER.	ner Robert		12 GRIFFON POINTE	LUIVIDER
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