THE "MAXWELL" MASTER FARMHOUSE - A OAK MEADOW

HARNETT, NC LOT - 2 HHHUNT HOMES

GENERAL NOTES:

- I. CONTRACTOR AND EACH SUB-CONTRACTOR SHALL BE REQUIRED TO CHECK AND BE RESPONSIBLE FOR CONFORMANCE OF PLANS WITH ALL REQUIREMENTS AND LOCAL ORDINANCES, BUILDING CODES, BUILDING INSPECTOR, AND MANUFACTURERS RECOMMENDATIONS PRIOR TO SIGNING THE CONTRACT OR BEGINNING WORK. THE COST OF CORRECTION, MODIFICATIONS, ADDITIONS, ETC., WHICH ARE CALLED FOR OR REQUIRED BY LOCAL ORDINANCES, BUILDING CODES, BUILDING INSPECTOR AND MANUFACTURERS AND NOT SPECIFICALLY NOTED OR SHOWN ON THE DRAWINGS TO COMPLETE A TURNKEY JOB SHALL BE PAID FOR AND BE THE RESPONSIBILITY OF THE CONTRACTOR. THE DRAWINGS ARE DIAGRAMMATIC, INTENDED TO OUTLINE GENERAL REQUIREMENTS ONLY AND NOT INTENDED TO BE COMPLETE IN ALL DETAILS. SPECIFIC IMPLEMENTATIONS OF PLANS SHALL BE THE REQUIREMENT OF THE CONTRACTOR WHO REPRESENTS HE HAS THE SKILL AND EXPERT KNOWLEDGE TO EXECUTE THE WORK REQUIRED.
- 2. ALL WORK SHALL BE ACCURATELY LAID OUT IN COOPERATION WITH OTHER TRADES TO AVOID CONFLICTS AND TO OBTAIN A NEAT WORKMANLIKE INSTALLATION. EACH SUB-CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND MAKING SURE HIS WORK PROPERLY CONNECTS WITH ADJOINING OR CONNECTING WORK ON WHICH THE CONSTRUCTION OF HIS WORK IS DEPENDENT FOR A TURNKEY JOB.
- 3. ALL DRAWINGS ARE INTENDED TO BE RIGID IN SPECIFIC DETAILS. WHERE SUCH DETAILS MAY BE IN CONFLICT WITH RECOMMENDATIONS OF THE MANUFACTURER OF EQUIPMENT ACTUALLY PROVIDED AND WHEN DISCREPANCIES BETWEEN DRAWINGS AND RECOMMENDATIONS CHANGE THE INTENT OF THE DRAWINGS, SUCH CHANGES ARE TO BE APPROVED BY HHHUNT.
- THE CONTRACTOR AND EACH SUB-CONTRACTOR SHALL PROTECT HIS AND OTHERS WORK FROM DAMAGE DUE TO HIS OPERATIONS AND SHALL REPLACE, OR REPAIR AS REQUIRED, ALL DAMAGED WORK TO THE SATISFACTION OF THE OWNER.
- MEASUREMENTS AND WORKMANSHIP AND WORKING CONDITIONS FOR ALL WORK SHALL BE TAKEN AT THE SITE AND COORDINATED WITH CONNECTING WORK BY EACH SUB-CONTRACTOR. EACH SUB-CONTRACTOR SHALL VERIFY FIGURES SHOWN ON DRAWINGS BEFORE LAYING OUT OR PROCEEDING WITH WORK AND SHALL BE HELD RESPONSIBLE FOR ANY ERRORS RESULTING FROM HIS FAILURE TO EXERCISE SUCH VERIFICATION.
- 6. THE ELECTRICAL AND MECHANICAL CONTRACTORS SHALL OBTAIN AND SUBMIT TO THE LOCAL DEPARTMENT OF BUILDING INSPECTIONS ALL DRAWINGS AND DOCUMENTATION REQUIRED TO OBTAIN A PERMIT FOR THE ELECTRICAL AND MECHANICAL WORK. HVAC PLANS MUST BE APPROVED BY HHHUNT PRIOR TO INSTALLATION.
- 7. BLOCKING: GENERAL CONTRACTOR SHALL PROVIDE ADEQUATE BLOCKING ON WALLS AND CEILING FOR ATTACHING FIXTURES, EQUIPMENT, DRAPERY TRACK, ETC.

STRUCTURAL COORDINATOR:

Tanner Lester

11237 Nuckols Road, Glen Allen, VA 23059 Telephone: (804) 762-4667 Email: talester@hhhunthomes.com

SHEET INDEX:

A-2 FIRST FLOOR PLAN A-3 SECOND FLOOR PLAN

A-4 ROOF PLAN

A-5 ELEVATIONS

A-5b ELEVATIONS-SIDES-REAR

A-7 SECTIONS

PLANS TO BE BUILT:

☐ As Drawn

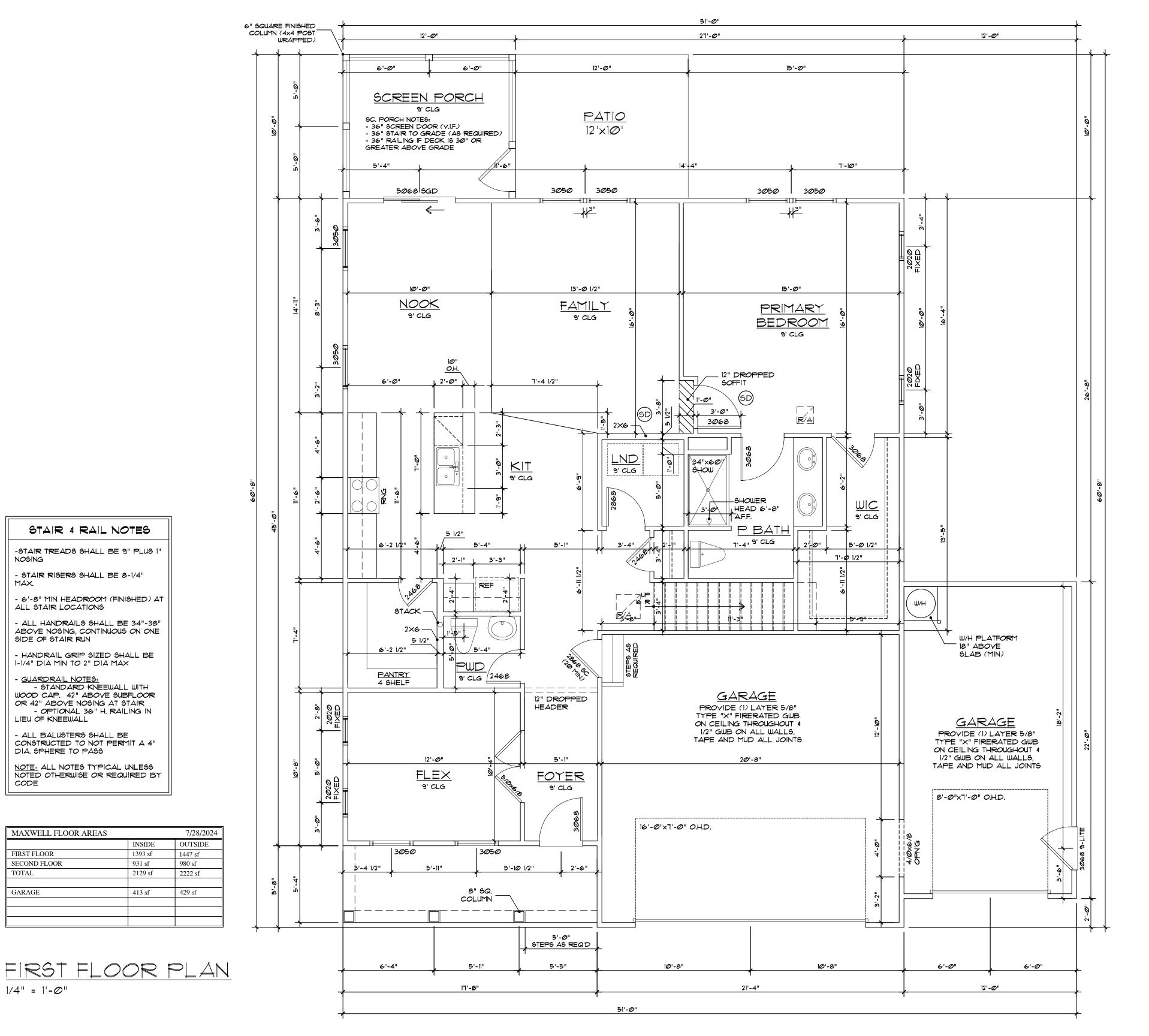
☐ Reversed (All)

NOTES:

- 1. ALL EXTERIOR WALLS ARE 4" (U.N.O.)
- 2. ALL INTERIOR WALLS ARE 3 1/2" (U.N.O.)
- 3. SMOKE DETECTORS SHALL BE INTERCONNECTED AND SHALL RECEIVE THEIR PRIMARY POWER BY PERMANENT CONNECTION TO THE DWELLINGS ELECTRICAL SYSTEM AND WHEN PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY
- 4. PROVIDE (1) CARBON MONOXIDE DETECTOR PER FLOOR
- 5. PROVIDE (1) FIRE EXTINGUISHER (2-A:10-B:C) LOCATED IN PANTRY OR FIELD LOCATED.
- 6. ALL DOORS/SCUTTLES TO UNCONDITIONED SPACE TO BE WEATHERSTIPPED AND INSULATED TO MATCH PENETRATED WALL/CEILING R VALUE.
- 7. ALL WINDOWS SILLS TO BE 18" MIN ABOVE FLOOR

CODE ANALYSIS

2018 NORTH CAROLINA RESIDENTIAL CODE USE GROUP — R-5 CONSTRUCTION TYPE — 5B BUILDING SHALL NOT BE SPRINKLERED



STAIR & RAIL NOTES

-STAIR TREADS SHALL BE 9" PLUS 1"

- 6'-8" MIN HEADROOM (FINISHED) AT

- ALL HANDRAILS SHALL BE 34"-38"

ABOYE NOSING, CONTINUOUS ON ONE

- HANDRAIL GRIP SIZED SHALL BE

- STANDARD KNEEWALL WITH

- OPTIONAL 36" H. RAILING IN

WOOD CAP. 42" ABOVE SUBFLOOR

CONSTRUCTED TO NOT PERMIT A 4"

NOTE: ALL NOTES TYPICAL UNLESS

NOTED OTHERWISE OR REQUIRED BY

INSIDE

931 sf

2129 sf

413 sf

429 sf

OR 42" ABOVE NOSING AT STAIR

- ALL BALUSTERS SHALL BE

1-1/4" DIA MIN TO 2" DIA MAX

- STAIR RISERS SHALL BE 8-1/4"

ALL STAIR LOCATIONS

SIDE OF STAIR RUN

- GUARDRAIL NOTES:

DIA. SPHERE TO PASS

MAXWELL FLOOR AREAS

CODE

FIRST FLOOR

TOTAL

GARAGE

SECOND FLOOR

1/4" = 1'-0"

NOSING

approved plans

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Revisions: Scale: 1/4"=1" Drawn By: MFR Checked By: MFR

Date: 4/21/2025



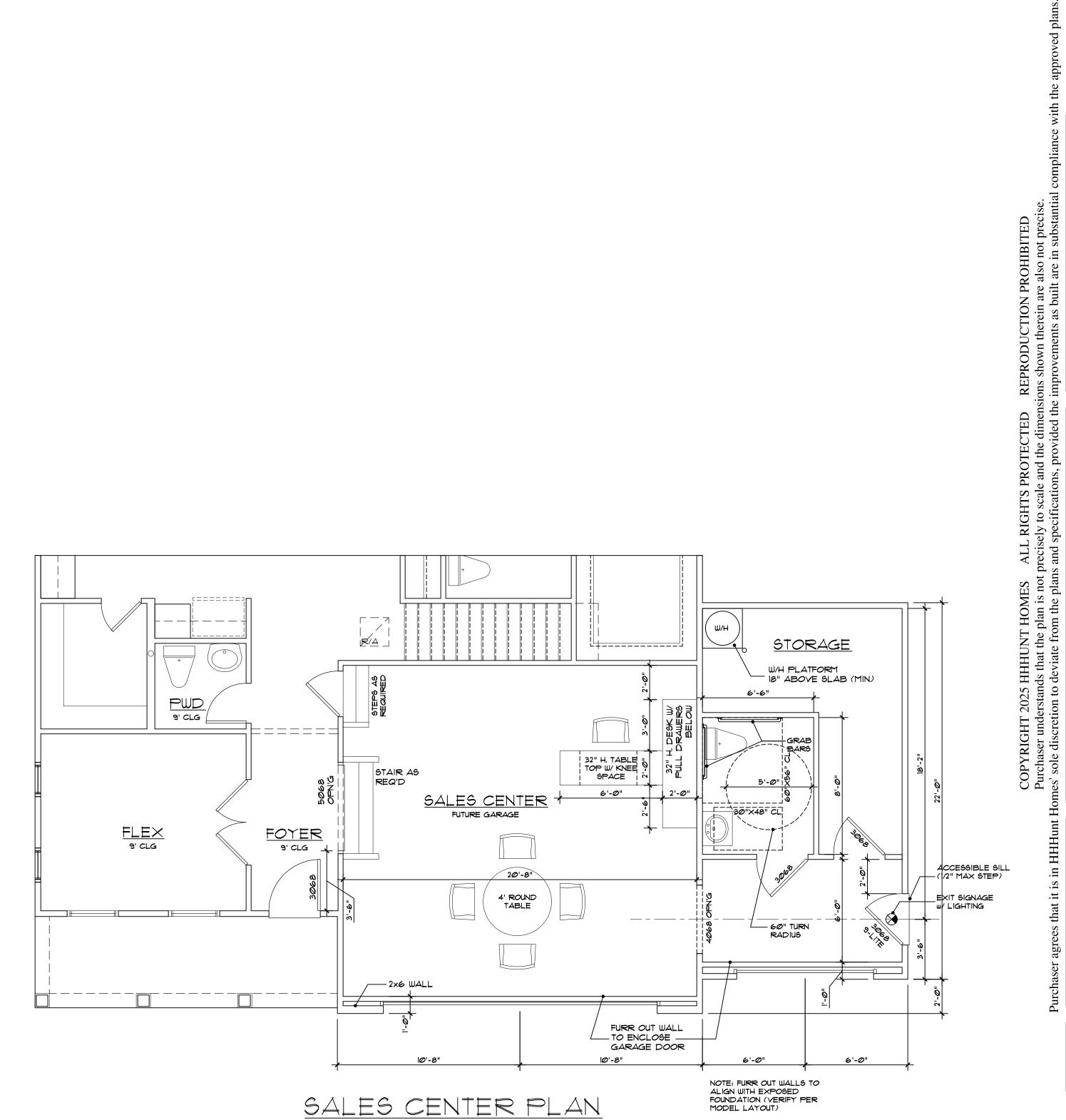
HHHunt Homes 11237 Nuckols Road Glen Allen, Va. 23059 (804) 762-4667

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\mathbf{MAXWELL - F}
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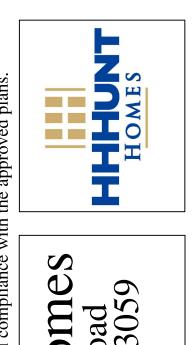
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A-2.1



1/4" = 1'-0"

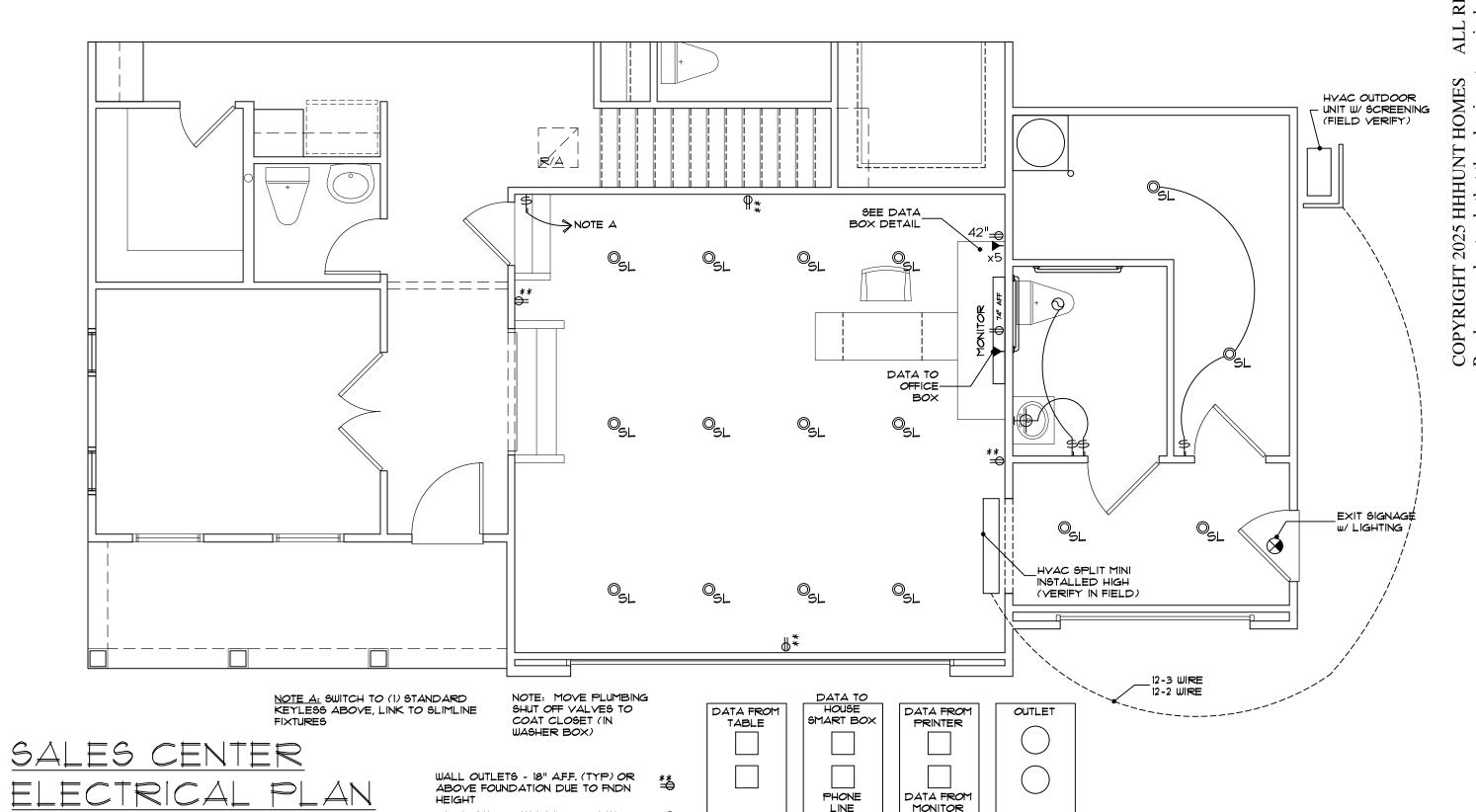


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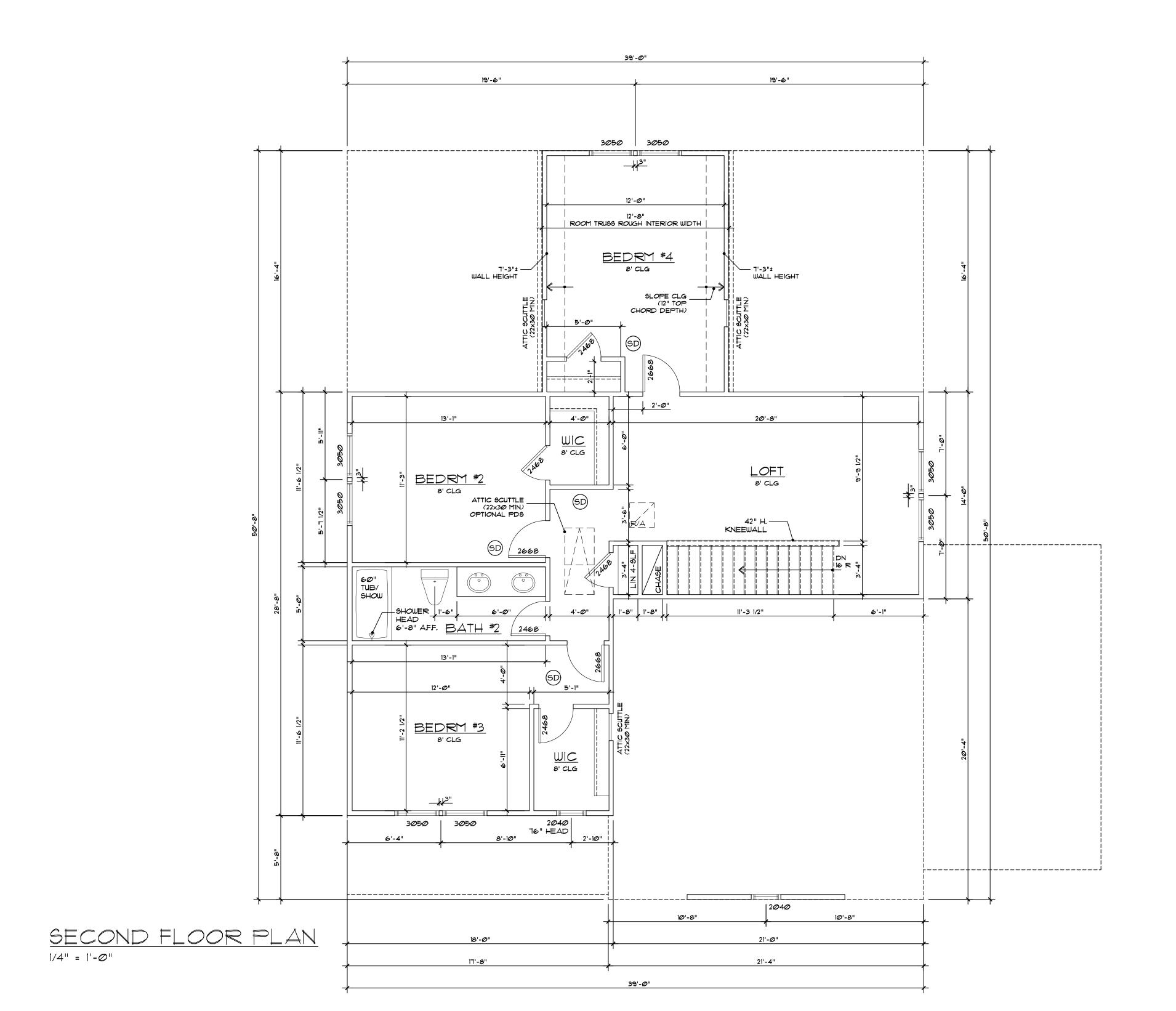
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DATA BOX DETAILS

DEDICATED OUTLET FOR PRINTER

1/4" = 1'-0"



Homes

approved plans

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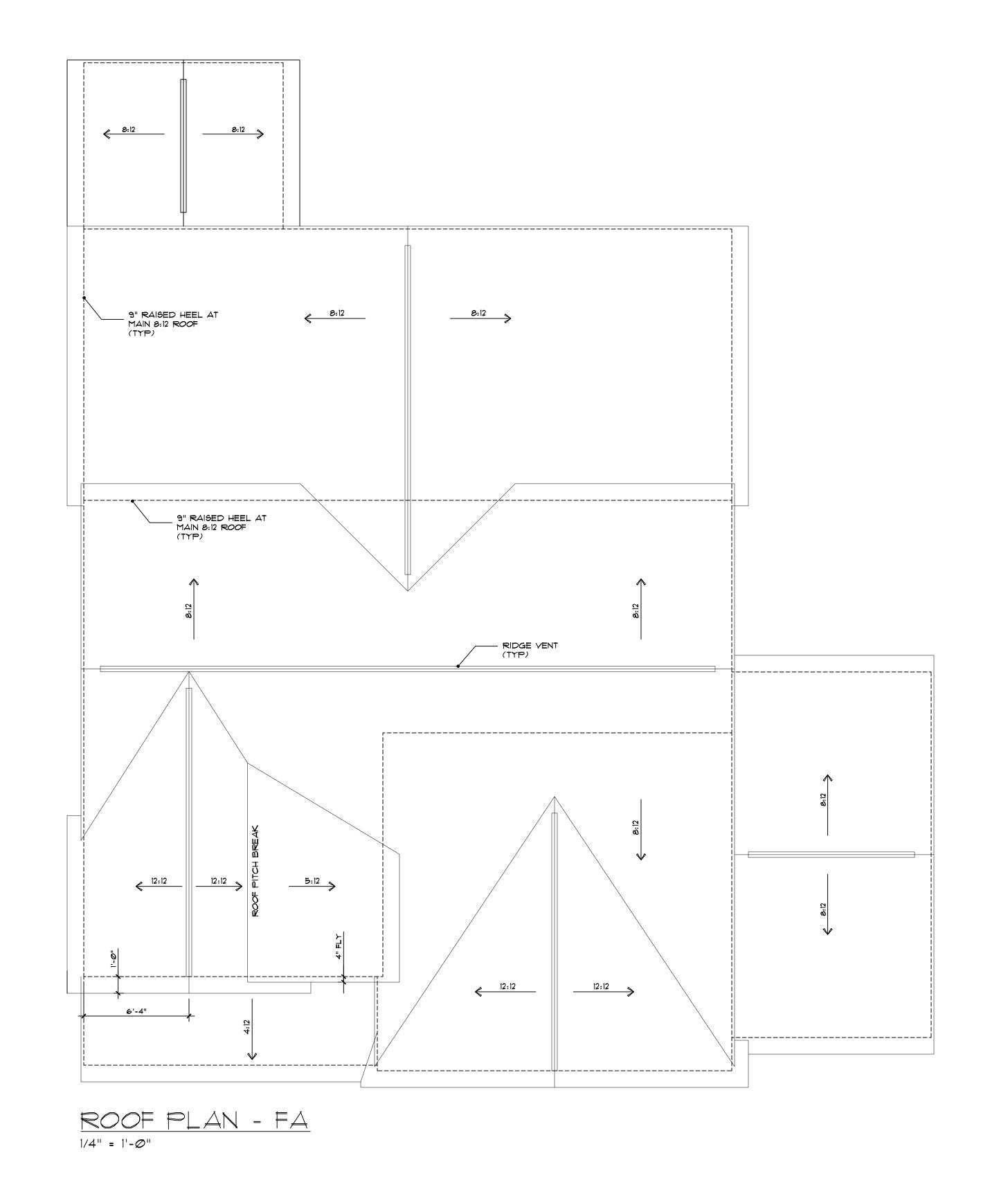
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1/4"=1'



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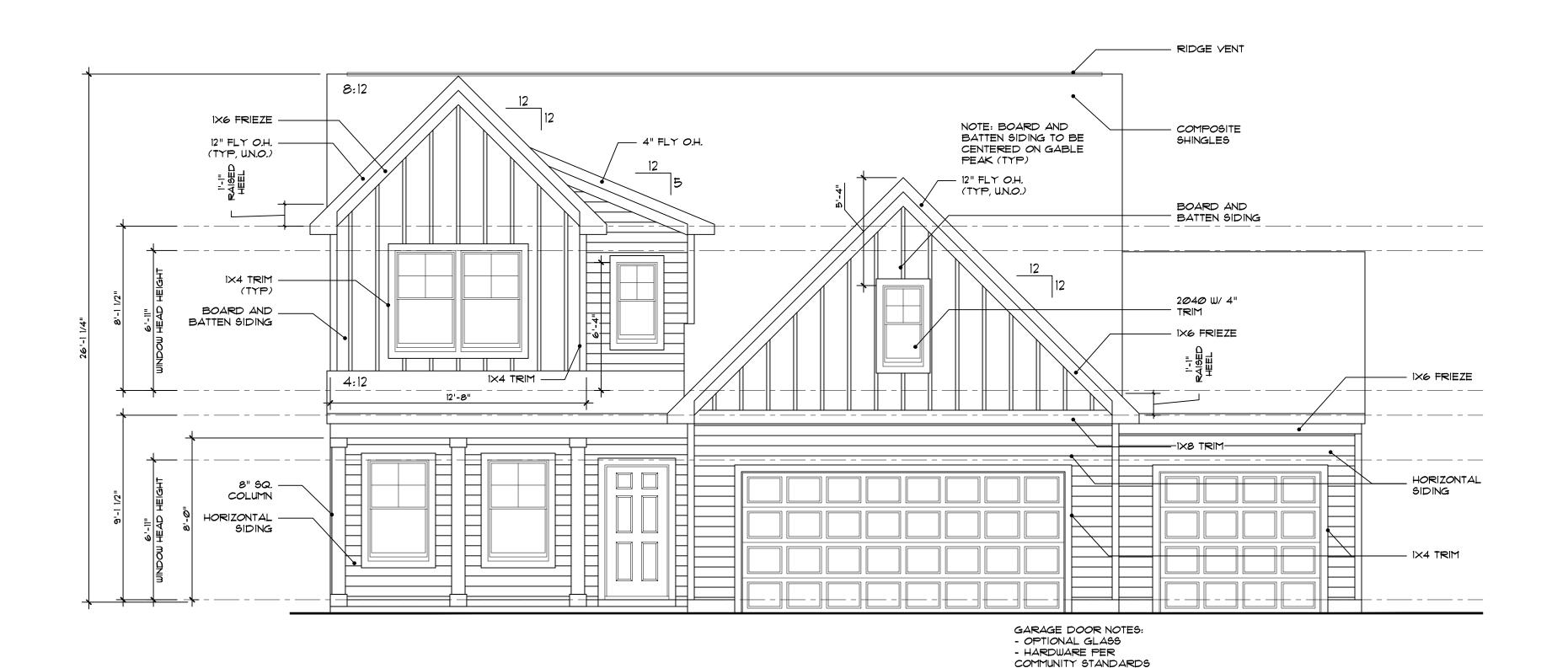
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HOWES

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> A-4 FA



FOUNDATION/ FINISH PER NEIGHBORHOOD

SPECIFICATIONS

FRONT ELEVATION - FARMHOUSE A

1/4" = 1'-0"

SLAB

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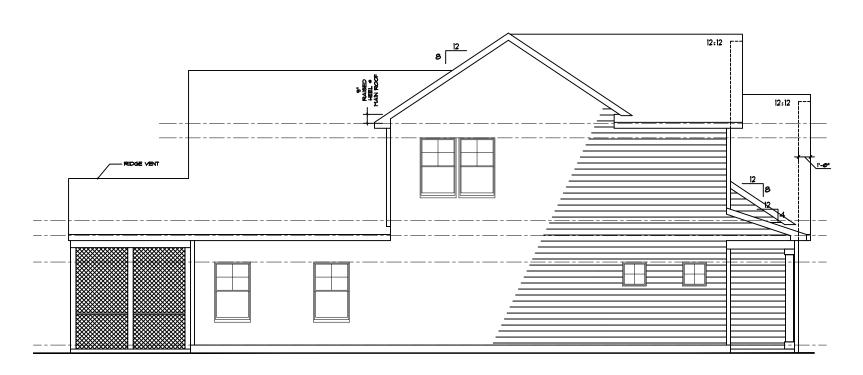
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approved plans

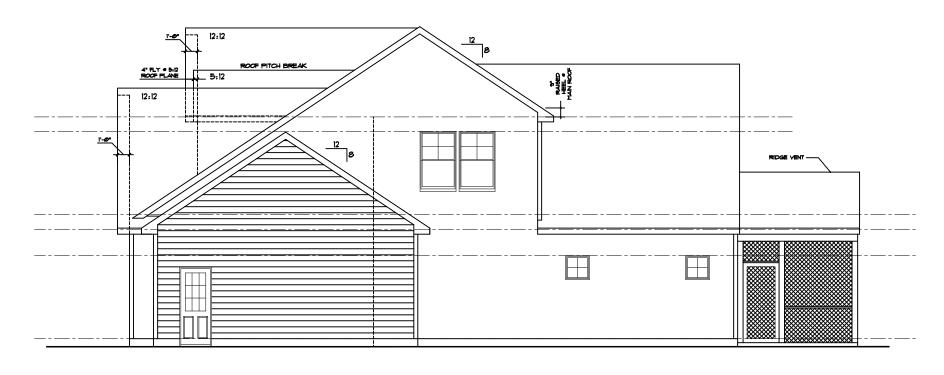
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> A-5 FA

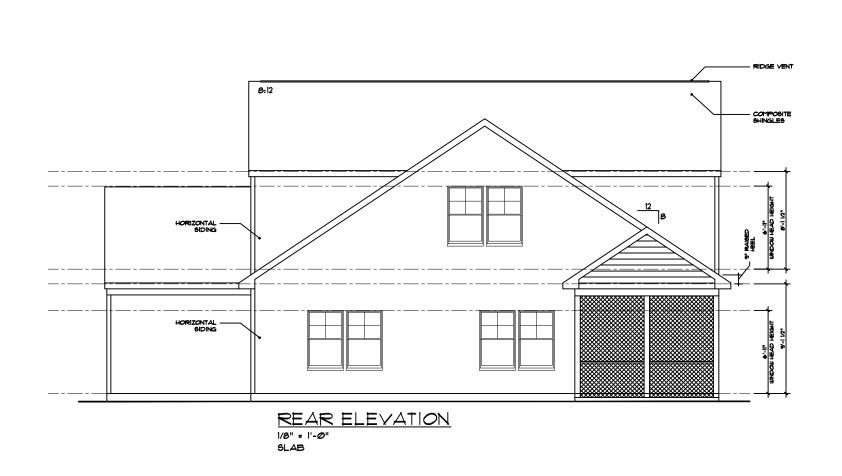
Date: 4/21/2025



<u>LEFT ELEVATION - FARMHOUSE A</u>
1/8" = 1'-0"



RIGHT ELEVATION - FARMHOUSE A



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MAXWELL

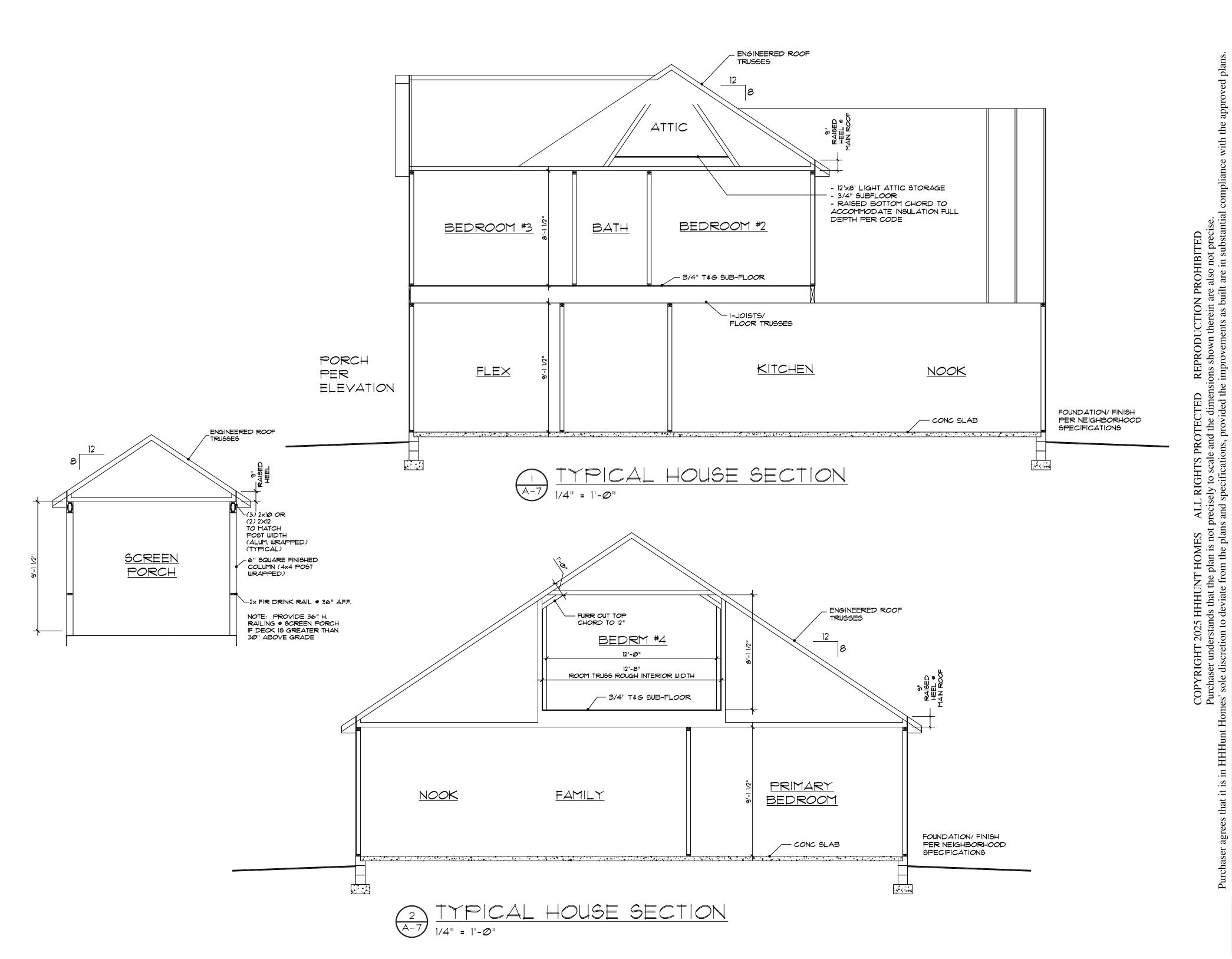
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A-5b FA



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> OM - 2 MAXWELL - FA

Revisions:

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A-7.1

NOTE: SEE SCREEN PORCH/PATIO DETAILS ON SHEET S-1.3c 39'-0" 4" CONC.-SEE STEMWALL FDN. DETAIL SLAB SHEET FOR FND. OPTIONS. 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 CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. 2. STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL 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 MINIMUM OF 7" INTO MASONRY OR CONCRETE. LOCATE BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH. MEAN ROOF HEIGHT IS LESS THAN 30 FEET. EXTERIOR WALLS DESIGNED FOR 120 MPH WINDS. 6. WALL CLADDING DESIGNED FOR +15.5 PSF AND -20 PSF (+/- INDICATE 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 16" WIDE BY 9" DEEP THICKENED SLAB (TYP.) 24" x 24" x 10" 8. INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR CONC. FTG. WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10.3 OF THE NCRC, 2018 EDITION. SEE THE WALL BRACING NOTES AND DETAILS SHEET FOR MORE INFORMATION. 9. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION. 10. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION. 17'-10 1/4" 15'-1 3/4" 6'-0" LEGEND CONT CONTINUOUS EXTRA JOIST DOUBLE JOIST DJ TJ TRIPLE JOIST EΑ EACH FOUNDATION FDN **FOOTING** FTG OC ON CENTER SPRUCE PINE FIR SPF SOUTHERN YELLOW PINE 21'-0" PRESSURE TREATED TRTD TYPICAL TYP UNO UNLESS NOTED OTHERWISE DATE: AUGUST 28, 2024 8/29/2024 SCALE: 1/4" = 1'-0" SEE WALL BRACING DETAIL SHEET -FOR FOUNDATION DETAILS DRAWN BY: HH HUNT HOMES ∕–4" CONC.~ SLAB 30" x 30" x 10" _ CONC. FTG. ENGINEERED BY: WFB 30" x 30" x 10" CONC. FTG. NOTE: SEE THIRD CAR GARAGE DETAILS ON S-1.3a STEM WALL FOUNDATION PLAN SHEET S-1.3c NOTE: SEE 2'-6" 16'-4" FARMHOUSE DETAILS ON SHEET S-1.3b 11'-10" 5'-10" 21'-4" 39'-0" TRADITIONAL

MAXWELL HUNT HOMES

8/29/2024

SEE WALL BRACING DETAIL SHEET
FOR FOUNDATION DETAILS
SLAB

30" x 30" x 10"
CONC. FTG.

2'-6"

16'-4"
21'-4"
39'-0"

<u>FARMHOUSE</u>

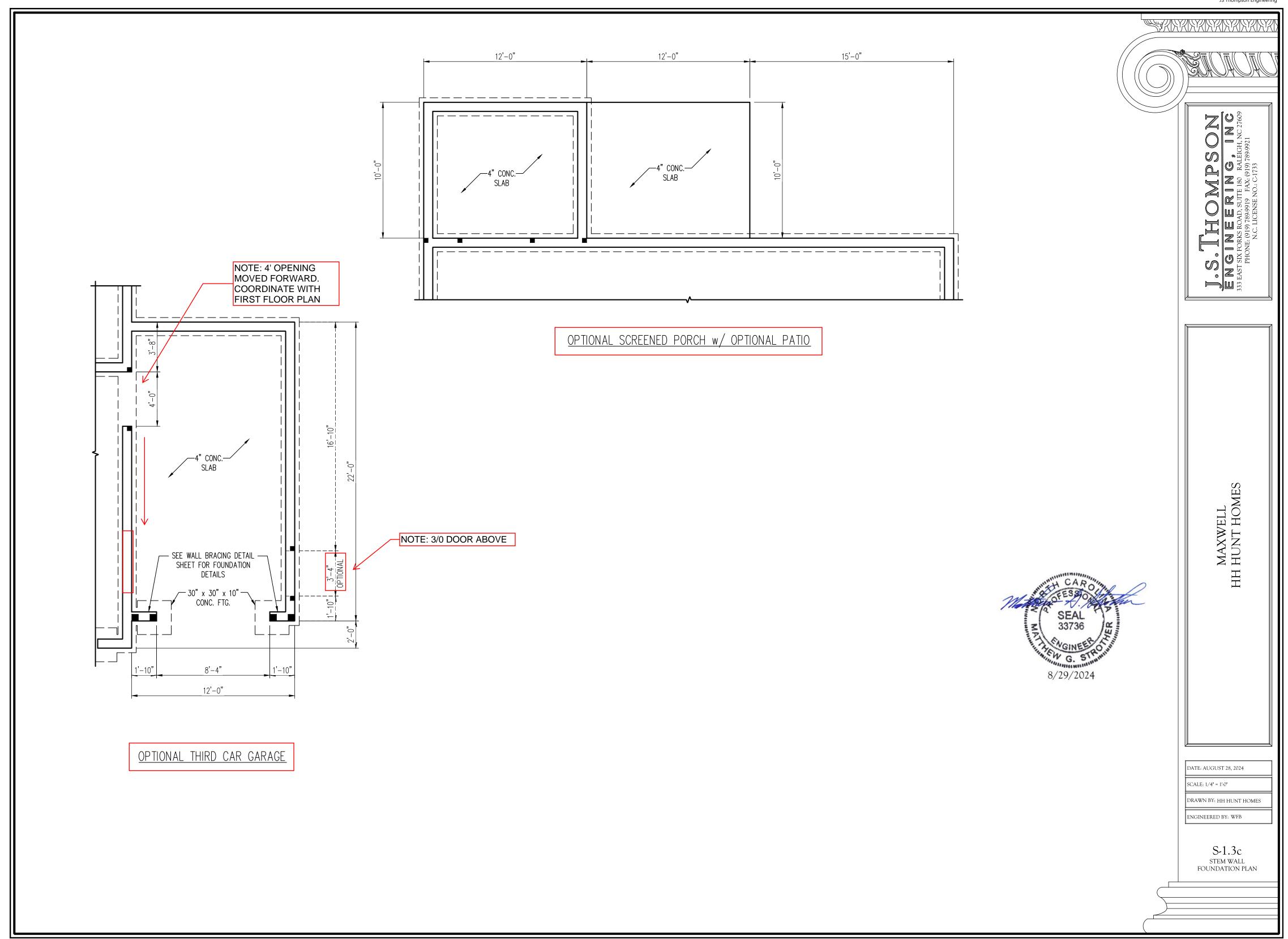
DATE: AUGUST 28, 2024

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

DRAWN BY: HH HUNT HOMES

ENGINEERED BY: WFB

S-1.3b stem wall foundation plan



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

MAXWELL HUNT HOMES

DATE: AUGUST 28, 2024 SCALE: 1/4" = 1'-0" DRAWN BY: HH HUNT HOMES ENGINEERED BY: WFB

> S-2a SECOND FLOOR FRAMING PLAN

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

STRUCTURAL NOTES:

- 1. 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 SPF #2 OR SYP #2 (KILN DRIED) (UNO). HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED LOADS. CODE TABLES HAVE NOT BEEN USED.
- PROVIDE EXTRA JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
- WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.). SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)
- ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS w/ SIMPSON ABU44 POST BASES (OR EQUAL) AND 6 x 6 POSTS w/ ABU66 POST BASES (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 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 INFORMATION.

NOTE:

- TJI 210 JOISTS MAY BE USED IN LIEU OF BCI 5000s-1.8 JOISTS AT THE DEPTH AND SPACING NOTED ON THE PLAN.
- SEE SHEET D-1 FOR FLOOR TRUSS ALTERNATIVE.

CONT	CONTINUOUS
XJ	EXTRA JOIST
DJ	DOUBLE JOIST
TJ	TRIPLE JOIST
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

A STREET	CAROUNDE SESSION)
Marting	SEAL SEAL	
N.A.	33736	
A. A. A.	G STREET	
	8/29/2024	
and the second	THE PROPERTY OF THE PARTY OF TH	

₩ ||(3) 14" BCI 5000'S 1.8 @ 19.2" **₽** O.C. (OR EQUAL) w/ OPT. WINDOW: -(2) 1 3/4" x 9 1/4" LVL w/ (2) JACKS EA. END (2) 2 x 6 _(2) 2 x 6 w/ OPT. DOOR 4 x 4 TRTD. POST MIN. (TYP.) (3) 1 3/4" x 16" LVL CONT. CORNER TO CORNER w/ (3) 2 x 6 JACKS EA. BRG. PT. $(2) 2 \times 10 (TYP.)$

(2) 2 x 6 CONT.

ROOF TRUSSES ENGINEERED

 $-(3) 2 \times 6$

2x6 WALL -

14" BCI 5000'S

_1.8 @ 19.2" O.C.

(OR <u>E</u>QUAL)

(2) 2 x 6

(2) 1 3/4" x 20" LVL. SET BOTTOM FLUSH w/BOTTOM OF JOISTS & SET UP INTO WALL ABOVE

14" BCI 5000'S 1.8 @ 19.2"

O.C. (OR EQUAL)

14" BCI 5000'S 1.8 @ 16"

O.C. (OR EQUAL) BELOW BATH

(2) 1 3/4" x 14" LVL FLUSH

 $w/(3) 2 \times 4 EA. END$

OPTIONAL (2) 2 × 10 E≡≡≡≡≡≡

OPTIONAL (2) 2 × 10 □#≡≡≡≡≡≡

(2) 2 x 6 CONT.

12" DROPPED SOFFIT

14" BCI 5000'S 1.8 @ 19.2"

O.C. (OR EQUAL)

20'-8" GB

CONTR. 10'-4'

GARAGE PORTAL FRAME. SEE METHOD PF WALL BRACING DETAIL

(2) 2 x 10

OPTIONAL (2) 2 × 10

OPTIONAL (2) 2 x 10

(2) 2 x 10

ΧJ

14" BCI 5000'S

1.8 **@** 19.2" 0.C.

(OR EQUAL)

TRADITIONAL

8/29/2024

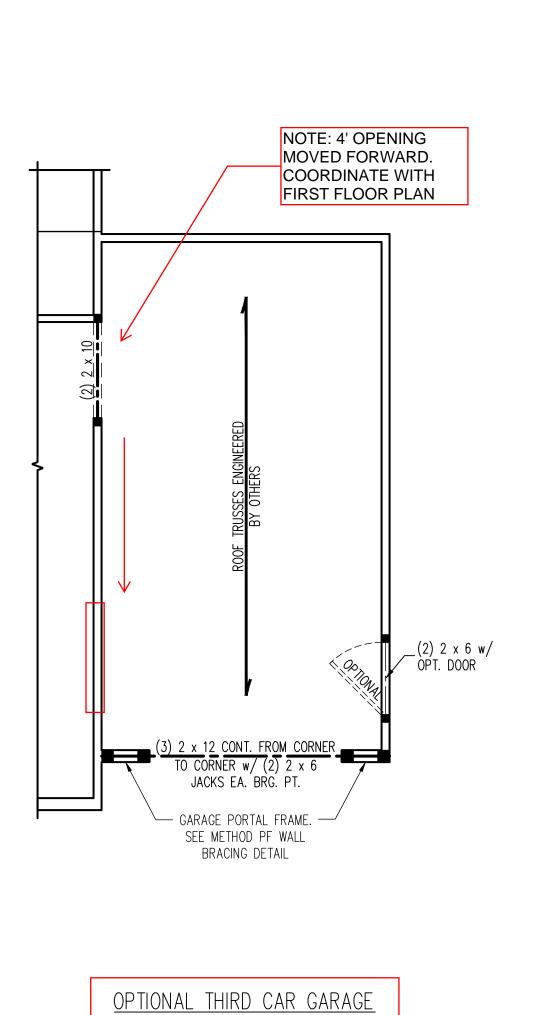
DATE: AUGUST 28, 2024

ENGINEERED BY: WFB

DRAWN BY: HH HUNT HOMES

S-2b second floor framing plan

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



14" TJJ 210 @ 19.2

O.C. (OR EQUAL)

SSS 24 10 (TYP.)

(2) 2 x 6 w/ OPT. DOOR

(2) 2 x 10 (TYP.)

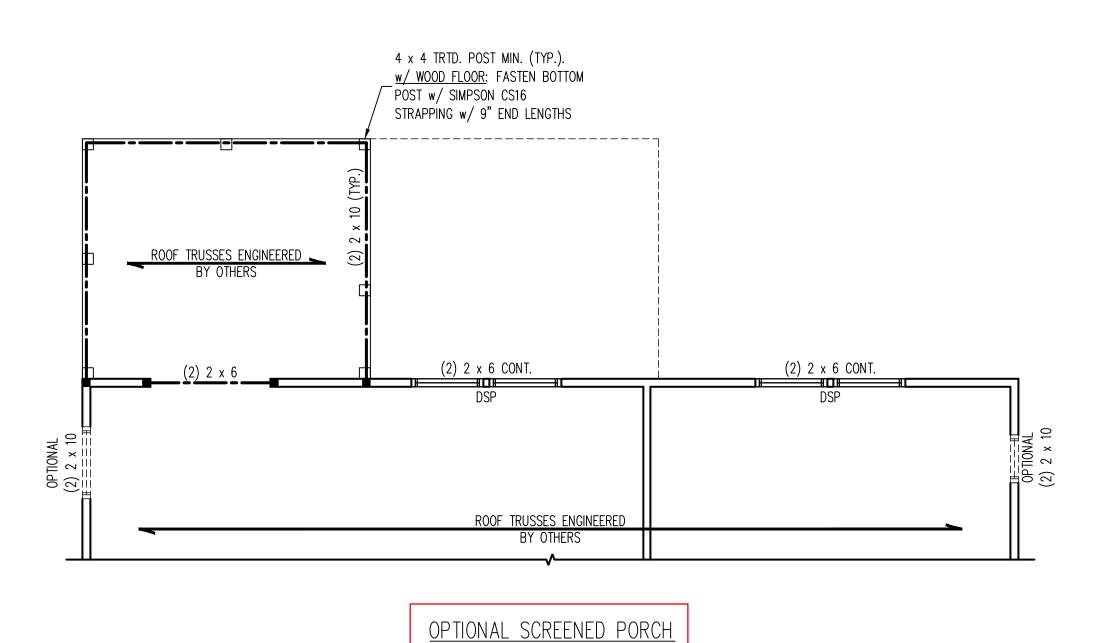
4 x 4 TRID. POST

MIN. (TYP.)

GARAGE PORTAL FRAME. SEE METHOD

PF WALL BRACING DETAIL

<u>FARMHOUSE</u>



MAXWELL HH HUNT HOMES



DATE: AUGUST 28, 2024

SCALE: 1/4" = 1'0"

DRAWN BY: HH HUNT HOMES

ENGINEERED BY: WFB

S-2c second floor framing plan

MAXWELL I HUNT HOMES

DATE: AUGUST 28, 2024 SCALE: 1/4" = 1'-0" DRAWN BY: HH HUNT HOMES ENGINEERED BY: WFB

S-3a ATTIC FLOOR FRAMING PLAN

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.
- 2. 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.
- 3. 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.
- 4. GB REFERS TO "GYPSUM BOARD." CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM BOARD ON BOTH SIDES OF WALL WHERE NOTED ON THE PLANS ATTACHED WITH 1 1/4" LONG #6 SCREWS OR 1 5/8" LONG 5d COOLER NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD.
- BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACED WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NCRC 2018 EDITION.
- 6. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

STRUCTURAL NOTES:

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

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

LEGEND

NUMBER OF STUDS

TRIPLE STUD POCKET

SPRUCE PINE FIR SOUTHERN YELLOW PINE

PRESSURE TREATED

UNLESS NOTED OTHERWISE

DSP DOUBLE STUD POCKET

ON CENTER

TYPICAL

EXTRA TRUSS TRUSS SUPPORT

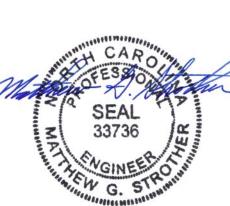
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TRADITIONAL

LOCATE ATTIC ACCESS

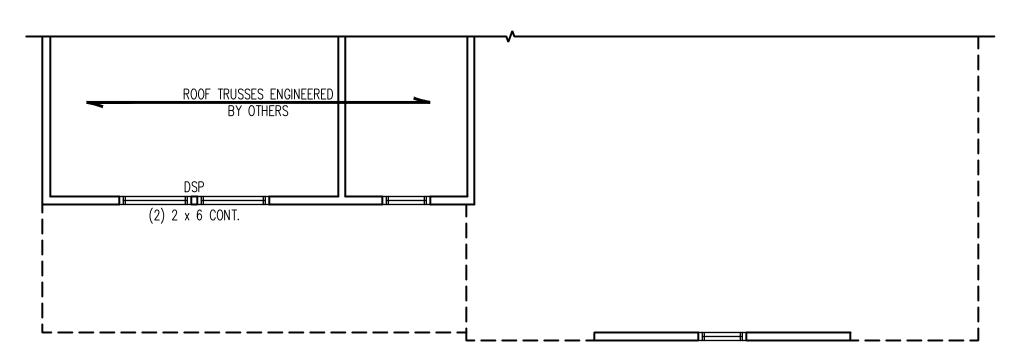
PER BUILDER

GIRDER TRUSS ENG. BY OTHERS w/ (3) 2 x 4 EA. END

ROOF TRUSSES ENGINEERED

SEAL
33736

W G. STRAMBURGER
8/29/2024



<u>FARMHOUSE</u>

MAXWELL HH HUNT HOMES

DATE: AUGUST 28, 2024

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

DRAWN BY: HH HUNT HOMES

ENGINEERED BY: WFB

S-3b attic floor framing plan

MAXWELL HH HUNT HOMES

SEAL
33736

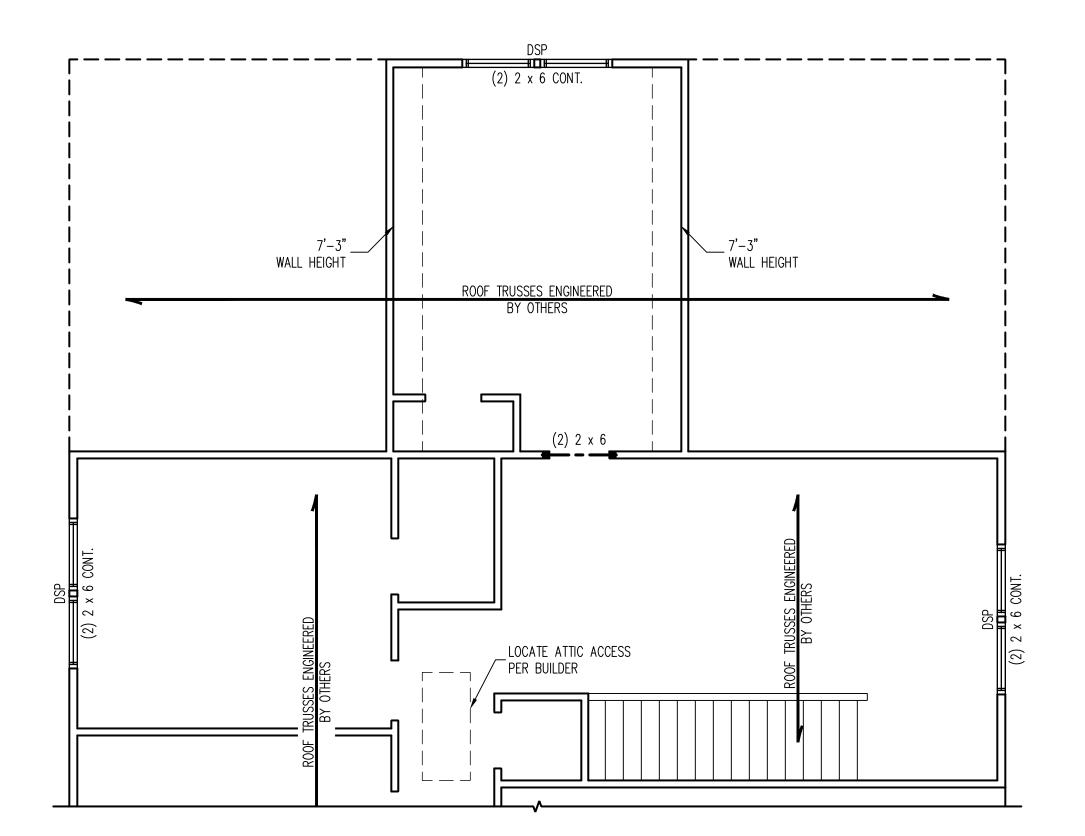
WGINEEROLL
8/29/2024

DATE: AUGUST 28, 2024

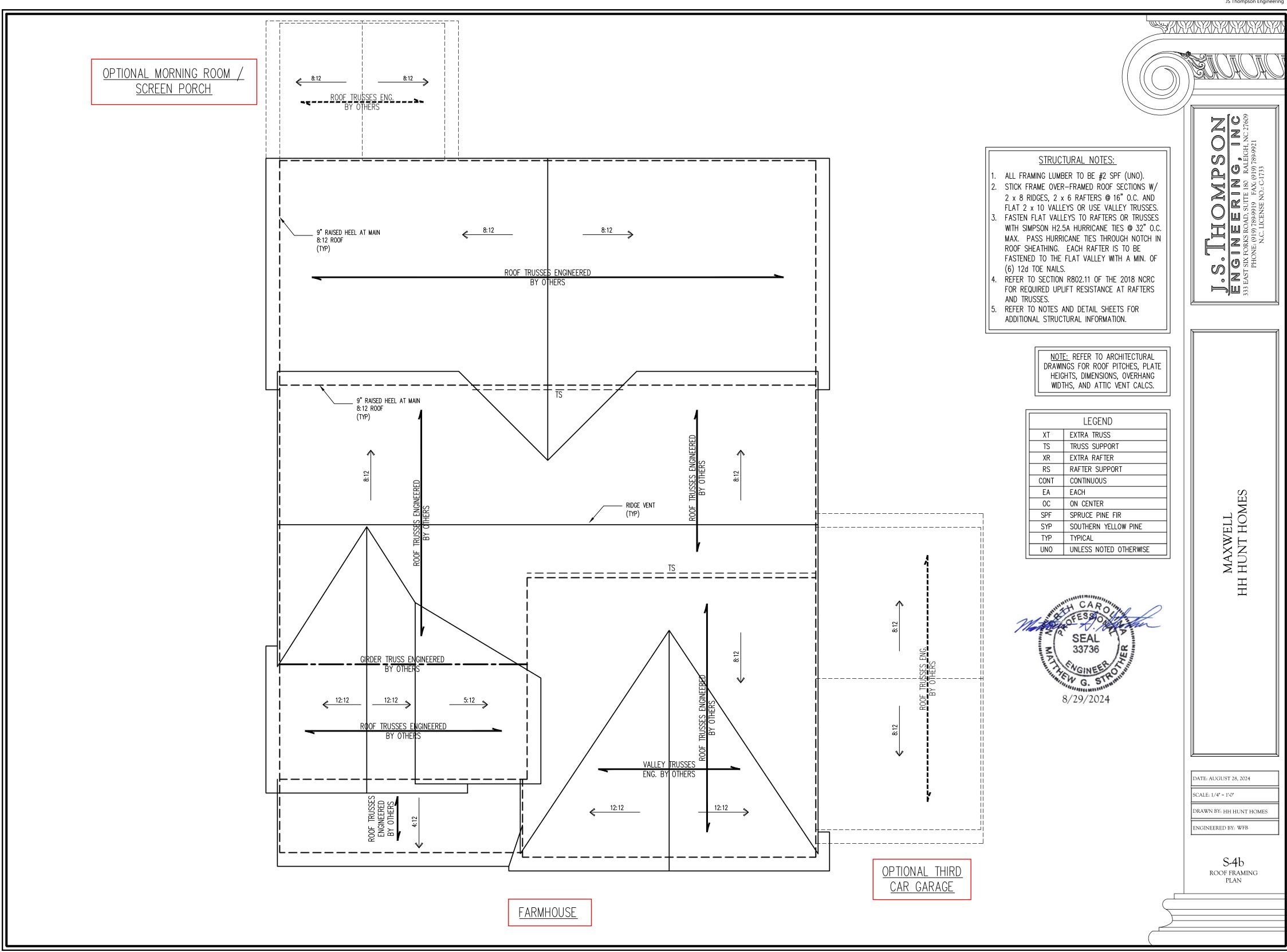
SCALE: 1/4" = 1'-0"

DRAWN BY: HH HUNT HOMES
ENGINEERED BY: WFB

S-3c attic floor framing plan



OPTIONAL BEDROOM 4

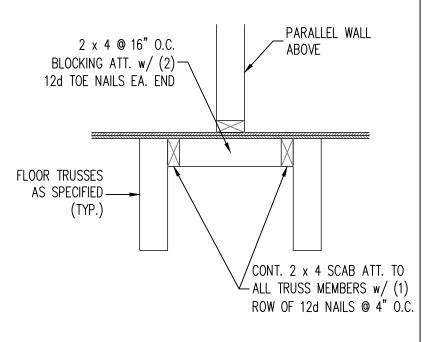


ENGINEERING, 11933 EAST SIX FORKS ROAD, SUITE 180 RALEIGH, NC 2 PHONE: (919) 789-9919 FAX: (919) 789-9921 N.C. LICENSE NO.: C.1733

MAXWELL IH HUNT HOMES

FLOOR TRUSS ALTERNATIVE

- 1. FLOOR TRUSSES ENGINEERED BY OTHERS AT THE DEPTH INDICATED ON THE PLAN SPACED AT 19.2" O.C. MAY BE USED IN LIEU OF I—JOISTS.
- 2. EXTRA TRUSSES ARE TO BE INSTALLED IN LIEU OF EXTRA JOISTS SPECIFIED UNDER THE KITCHEN.
- 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.



TRUSS BLOCKING DETAIL



DATE: AUGUST 28, 2024

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

DRAWN BY: HH HUNT HOMES

ENGINEERED BY: WFB

D-4 FLOOR TRUSS ALTERNATIVE

DATE: JUNE 2, 2022 SCALE: NTS DRAWN BY: JST

ENGINEERED BY: JST

FOUNDATION DETAILS

2 x 4 STUD FRAMING (UNO)-W/ TRTD. BOTTOM PLATE(S) BRICK TIES @ 1'-0" VERTICALLY AND 2'-8" HORIZONTALLY 2 x 4 TRTD. BOTTOM PLATE(S)--4" BRICK VENEER SECURED BY 1/2" DIA. BOLTS. SEE CHART FOR SPACING AND -FLASHING EMBEDMENT REQUIREMENTS WEEP HOLES 4" CONCRETE SLAB-W/ FIBER REINFORCING OR WELDED WIRE FABRIC 6 MIL. VAPOR-BARRIER LADDER WIRE 4" WASHED STONE-EVERY OTHER COURSE UNDISTURBED EARTH, COMPACTED FILL -12" CMU BLOCK OR WASHED STONE TOP TWO COURSES OF STEM WALL AND--WALL REINFORCEMENT, ALL CELLS W/ REINFORCEMENT TO BE SEE CHART FOR SPACING FILLED SOLID.

-20" WIDE BY 8" DEEP

CONT. CONC. FTG.

STEM WALL FON. DETAIL

-SIDING AS SPEC.

LADDER WIRE IN TOP TWO

-OPTIONAL BRICK VENEER

COURSES (w/ VENEER ONLY)

-FINISHED GRADE

LADDER WIRE

EVERY OTHER

—8" CMU BLOCK

COURSE

WALL REINFORCEMENT, SEE

CHART FOR SPACING

H6" WIDE BY 8" DEEP

BRICK TIES @

1'-0" VERTICALLY AND

LADDER WIRE

EVERYMOTHER

-12" CMU BLOCK

COURSE

CHART FOR SPACING

-20" WIDE BY 8" DEEP

CONT. CONC. FTG.

2'-8" HORIZONTALLY

-4" BRICK VENEER

-FLASHING

WEEP HOLES

CONT. CONC. FTG.

-SHEATHING

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

2 x 4 TRTD. BOTTOM PLATE(S)-

SECURED BY 1/2" DIA. BOLTS.

SEE CHART FOR SPACING AND

THICKENED SLAB-

4" CONCRETE SLAB-

6 MIL. VAPOR-

UNDISTURBED EARTH,

BARRIER

COMPACTED FILL OR WASHED STONE

TOP TWO COURSES OF STEM WALL AND-

ALL CELLS W/ REINFORCEMENT TO BE

2 x 4 STUD FRAMING (UNO)

W/ TRTD. BOTTOM PLATE(S)

2 x 4 TRTD. BOTTOM PLATE(6) -

SECURED BY 1/2" DIA. BOLTS.

EMBEDMENT REQUIREMENTS

SEE CHART FOR SPACING AND

4" CONCRETE SLAB

6 MIL. VAPOR-

UNDISTURBED EARTH,

BARRIER

COMPACTED FILL

OR WASHED STONE

TOP TWO COURSES OF STEM WALL AND

ALL CELLS W/ REINFORCEMENT TO BE

FILLED SOLID.

STEM WALL FDN. W/ BRICK DETAIL

W/ FIBER REINFORCING

OR WELDED WIRE FABRIC

4" WASHED STONE

FILLED SOLID.

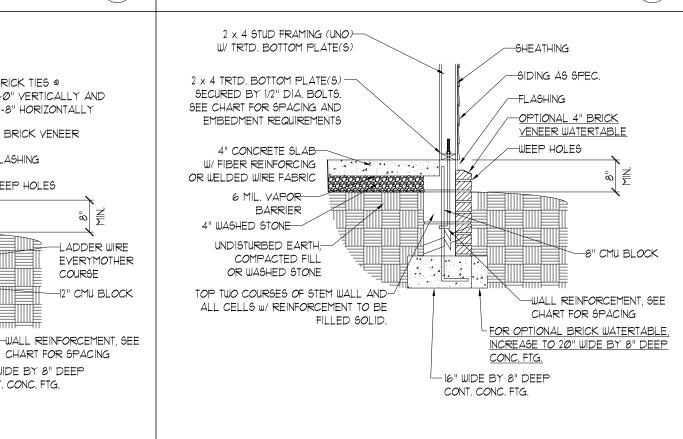
W/ FIBER REINFORCING OR WELDED WIRE FABRIC

4" WASHED STONE

NOT REQUIRED

EMBEDMENT REQUIREMENTS





ANCHOR SPACING AND EMBEDMENT			
WIND ZONE	120 MPH	13Ø MPH	
SPACING	6'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	4'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	
EMBEDMENT	7"	15" INTO MASONRY T" INTO CONCRETE	

NOTE:

THREADED ROD WITH EPOXY, SIMPSON TITEN HD, 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.

STEM WALL FDN. W/ OPTIONAL

BRICK WATERTABLE DETAIL

4

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:

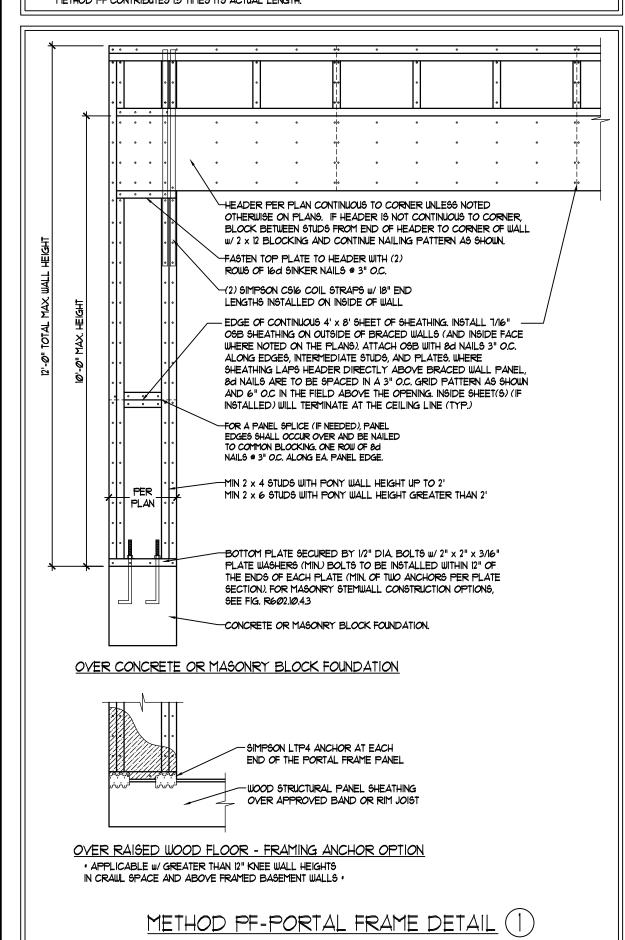
- 1) WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL
- 2) TIE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.
- 3) CHART APPLICABLE FOR HOUSE FOUNDATION ONLY. CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
- 4) BACKFILL OF CLEAN #57 / #67 WASHED STONE 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 <u>R506.2.1</u> AND <u>R506.2.2</u> BASE AND <u>EXCEPTION</u> 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.

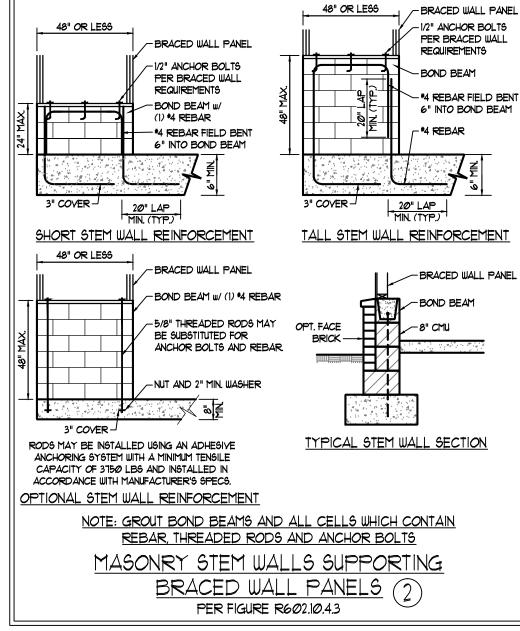


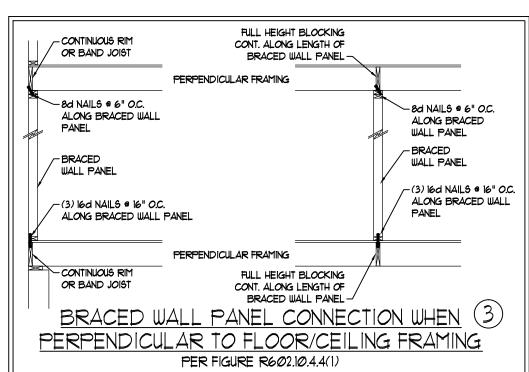
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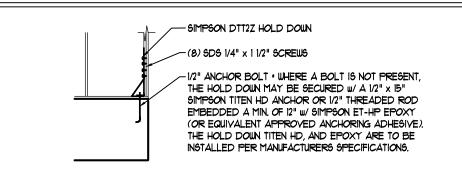
GENERAL WALL BRACING NOTES:

- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
- SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED. BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED PER R60235 (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 R602.103 UNLESS NOTED
- ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED. WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED PER TABLE R102.3.5. METHOD GB TO BE FASTENED PER TABLE R602.10.1
- CS-USP REFERS TO THE "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 7/16" 06B SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED W/ 6d COMMON NAILS OR 8d (2 1/2" LONG x Ø.113" DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (UN.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 1" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UN.O.). YERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYP9UM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R102.3.5. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R6023(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 C9-USP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES IS ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES 15 TIMES ITS ACTUAL LENGTH.

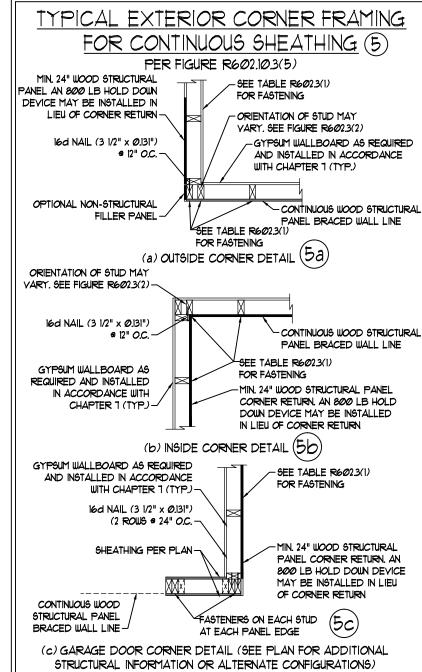


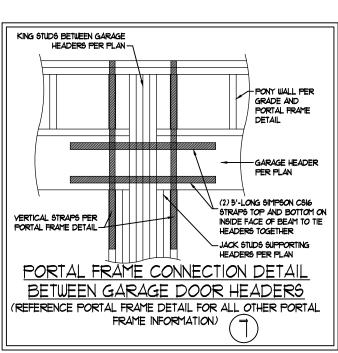


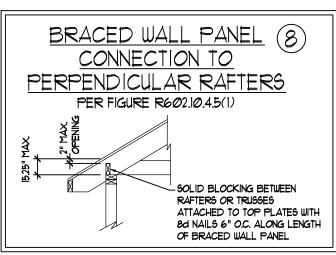




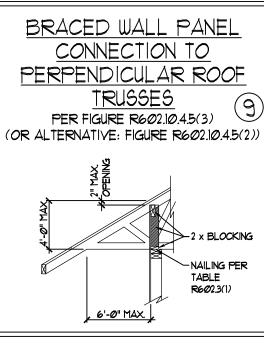
HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC SLAB * APPLICABLE ONLY WHERE SPECIFIED ON PLAN *







BRACED WALL PANEL CONNECTION WHEN 6 PARALLEL TO FLOOR/CEILING FRAMING PER FIG. R602.10.4.4(2) -FULL HEIGHT BLOCKING @ - ADDITIONAL FRAMING 16" O.C. ALONG: LENGTH OF MEMBER DIRECTLY ABOVE BRACED WALL PANEL - CONTINUOUS RIM OR BAND JOIST BRACED WALL PANEL -8d NAILS ® 6" O.C. ALONG ·TOE NAIL (3) 8d NAILS AT -8d NAILS ●6" O.C. ALONG BRACED WALL PANEL EA. BLOCKING MEMBER BRACED WALL PANEL -BRACED WALL PANEL -BRACED WALL PANEL BRACED WALL PANEL ~(3) 16d NAILS @ 16" O.C. ~(3) 16d NAILS ● 16" O.C. /-(3) 16d NAILS @ 16" O.C. AT EA. BLOCKING ALONG BRACED WALL PANEL ALONG BRACED WALL PANEL (2) I6d NAILS EA. SIDE ADDITIONAL FRAMING FULL HEIGHT BLOCKING @ - CONTINUOUS RIM W/ FINGER MEMBER DIRECTLY BELOW 16" O.C. ALONG LENGTH OF JOISTS OR DBL. BAND JOIST BRACED WALL PANEL BRACED WALL PANEL





DATE: OCTOBER 30, 2018 SCALE: 1/4" = 1'-0"

DRAWN BY: JST

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BRACED WALL NOTES AND DETAILS AND PF DETAIL

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DET,

1 2 6 9

AND NOTES BRACING

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 (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)

LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
20	10	L/240 (L/360 w/ BRITTLE FINISHES)
10	10	L/360
40	10	L/360
40	10	L/360
40	10	L/360
200	10	L/360
50	10	L/360
40	10	L/360
30	10	L/360
40	10	L/360
(BASED ON TABLE R301.2(4) WIND ZONE AND EXPOSURE)		
20 (PSF)		
	20 10 40 40 40 200 50 40 30 40 (BASED ON TABLE R301.2	20 10 10 10 40 10 40 10 40 10 200 10 50 10 40 10 30 10 40 10 30 10 40 10 30 10 40 10 6BASED ON TABLE R301.2(4) WIND ZONE AND EXPOSURE)

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

FOOTING AND FOUNDATION NOTES

- 1. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL 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. ADJUST WHERE NECESSARY.
- 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 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 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 (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 PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

W AND WT SHAPES:

ASTM A992 ASTM A36 CHANNELS AND ANGLES: ASTM A36 PLATES AND BARS:

HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B

STEEL PIPE: ASTM A53, GRADE B, TYPE E OR S

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

A. WOOD FRAMING (2) 1/2" DIA. x 4" LONG LAG SCREWS B. CONCRETE (2) 1/2" DIA. x 4" WEDGE ANCHORS

C. MASONRY (FULLY GROUTED) (2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM w/ (2) ROWS OF SELF TAPPING SCREWS @ 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.

- 5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NCRC, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END (UNO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO). INSTALL KING STUDS PER SECTION R602.7.5 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 7. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (UNO). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM 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 (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).
- 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.

NOTES STRUCTURAL STANDARD

DATE: JUNE 2, 2022 SCALE: 1/4" = 1'-0"

ENGINEERED BY: IST

DRAWN BY: JST

STRUCTURAL NOTES