

GENERAL NOTES:

- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL DIMENSIONS, ROOF PITCHES, AND SQUARE FOOTAGE ARE CORRECT PRIOR TO CONSTRUCTION. K&A HOME DESIGNS, INC. IS NOT RESPONSIBLE FOR ANY DIMENSIONING, ROOF PITCH, OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- ALL WALLS SHOWN ON THE FLOOR PLANS ARE DRAWN AT 4" UNLESS NOTED OTHERWISE.
- ALL ANGLED WALL SHOWN ON THE PLANS ARE 45 DEGREES UNLESS NOTED OTHERWISE.
- STUD WALL DESIGN SHALL CONFORM TO ALL NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS.
- DO NOT SCALE PLANS. DRAWING SCALE MAY BE DISTORTED DUE TO COPIER IMPERFECTIONS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA RESIDENTIAL STATE BUILDING CODE, 2018 EDITION.

SQUARE FOOTAGE

| HEATED SQUARE FOOTAGE |      | UNHEATED SQUARE FOOTAGE |     |
|-----------------------|------|-------------------------|-----|
| FIRST FLOOR=          | 825  | GARAGE=                 | 371 |
| SECOND FLOOR=         | 1011 | FRONT PORCH=            | 68  |
| THIRD FLOOR=          | N/A  | SCREEN PORCH=           | N/A |
| BASEMENT=             | N/A  | DECK=                   | N/A |
|                       |      | STORAGE=                | N/A |

TOTAL HEATED= 1836      TOTAL UNHEATED= 439

CRAWL SPACE VENTILATION CALCULATIONS

-VENT LOCATIONS MAY VARY FROM THOSE SHOWN ON THE PLAN BUT SHOULD BE PLACED TO PROVIDE ADEQUATE VENTILATION AT ALL POINTS TO PREVENT DEAD AIR POCKETS.

-100% VAPOR BARRIER MUST BE PROVIDED WITH 12" MIN. LAP JOINTS.

-THE TOTAL AREA OF VENTILATION OPENINGS MAY BE REDUCED TO 1/1500 AS LONG AS REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS-VENTILATION OF THE SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED. (COMPLY WITH NC CODE MIN. WITH REGARD TO VENT PLACEMENT FROM CORNERS)

N/A      SQ. FT. OF CRAWL SPACE/1500

N/A      SQ. FT. OF REQUIRED VENTILATION

PROVIDED BY: N/A      VENTS AT 0.45 SQ. FT. NET FREE

VENTILATION EACH= N/A      SQ. FT. OF VENTILATION

\*\*FOUNDATION DRAINAGE- WATERPROOFING PER SECTIONS 405 & 406.

ATTIC VENTILATION CALCULATIONS

- CALCULATIONS SHOWN BELOW ARE BASED ON VENTILATORS USED AT LEAST 3 FT. ABOVE THE CORNICE VENTS WITH THE BALANCE OF VENTILATION PROVIDED BY EAVE VENTS.

- CATHEDRAL CEILINGS SHALL HAVE A MIN. 1" CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.

1278      SQ. FT. OF ATTIC/300=      4.26

EACH OF INLET AND OUTLET REQUIRED.

WALL AND ROOF CLADDING DESIGN VALUES

- WALL CLADDING IS DESIGNED FOR A 24.1 SQ. FT. OR GREATER POSITIVE AND NEGATIVE PRESSURE.

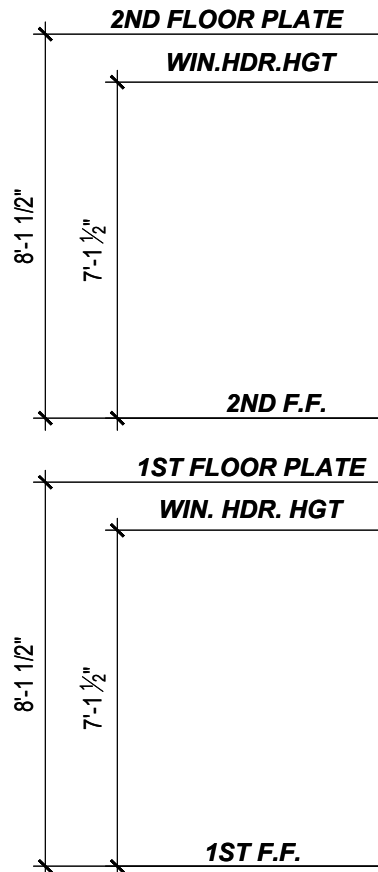
- ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE AS FOLLOWS:

45.5 LBS. PER SQ. FT. FOR ROOF PITCHES OF 0/12 TO 2.25/12

34.8 LBS. PER SQ. FT. FOR ROOF PITCHES OF 2.25/12 TO 7/12

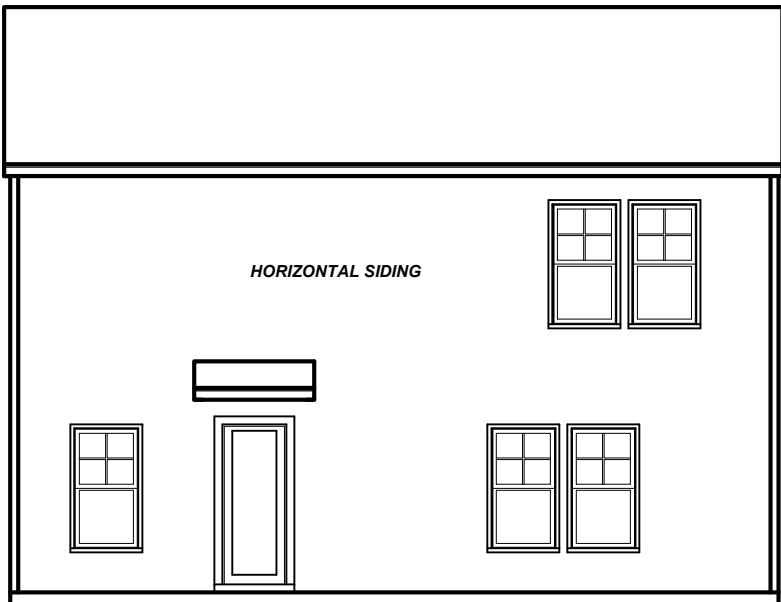
21 LBS. PER SQ. FT. FOR ROOF PITCHES OF 7/12 TO 12/12

\*\* MEAN ROOF HEIGHT 30' OR LESS



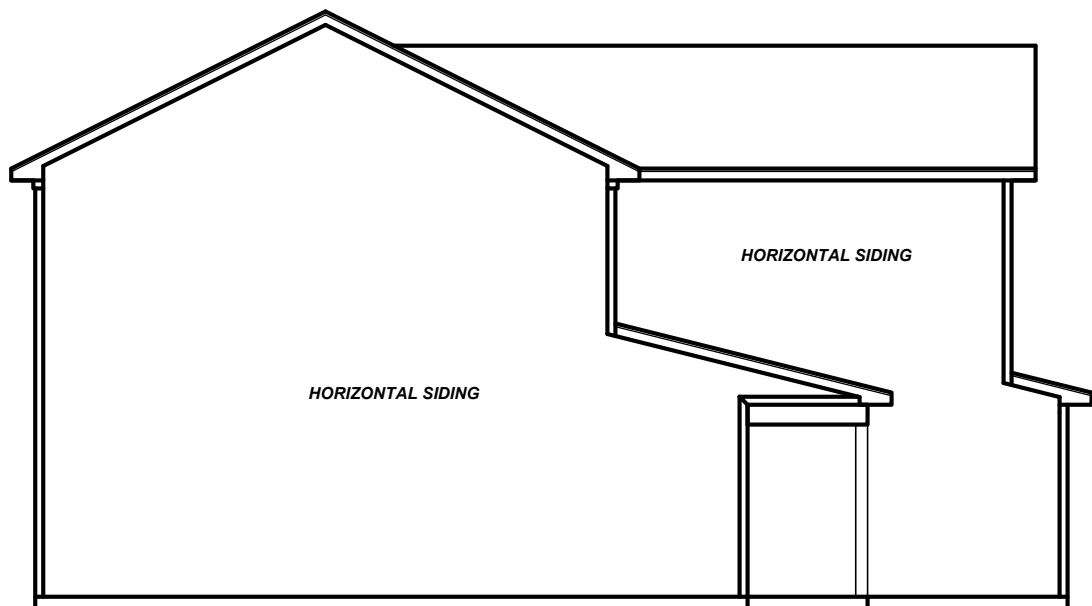
FRONT ELEVATION 'A'

1/4" = 1'-0"



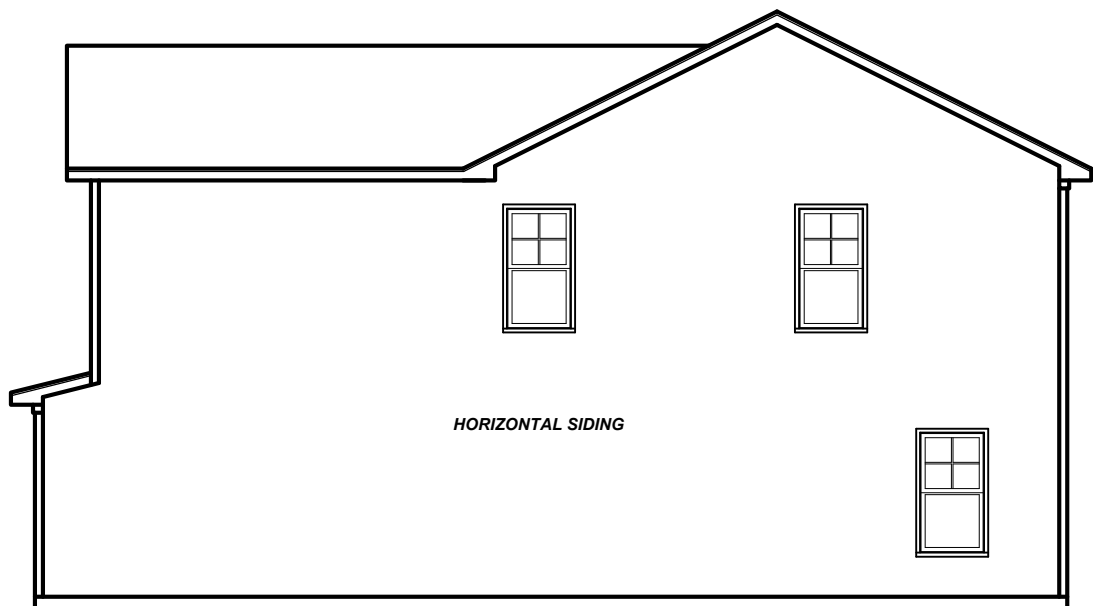
REAR ELEVATION 'A'

1/8" = 1'-0"



LEFT ELEVATION 'A'

1/8" = 1'-0"



RIGHT ELEVATION 'A'

1/8" = 1'-0"

ILA-039  
RH GARAGE

|                  |                |
|------------------|----------------|
| Project #:       | 23-099         |
| Date:            | 5-1-23         |
| Drawn/Design By: | KBB            |
| Scale:           | REFER TO ELEV. |

| REVISIONS |      |         |
|-----------|------|---------|
| No.       | Date | Remarks |
| 1         |      |         |
| 2         |      |         |
| 3         |      |         |
| 4         |      |         |

9101 Ten-Ten Rd.  
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Bonnet

Ben Stout  
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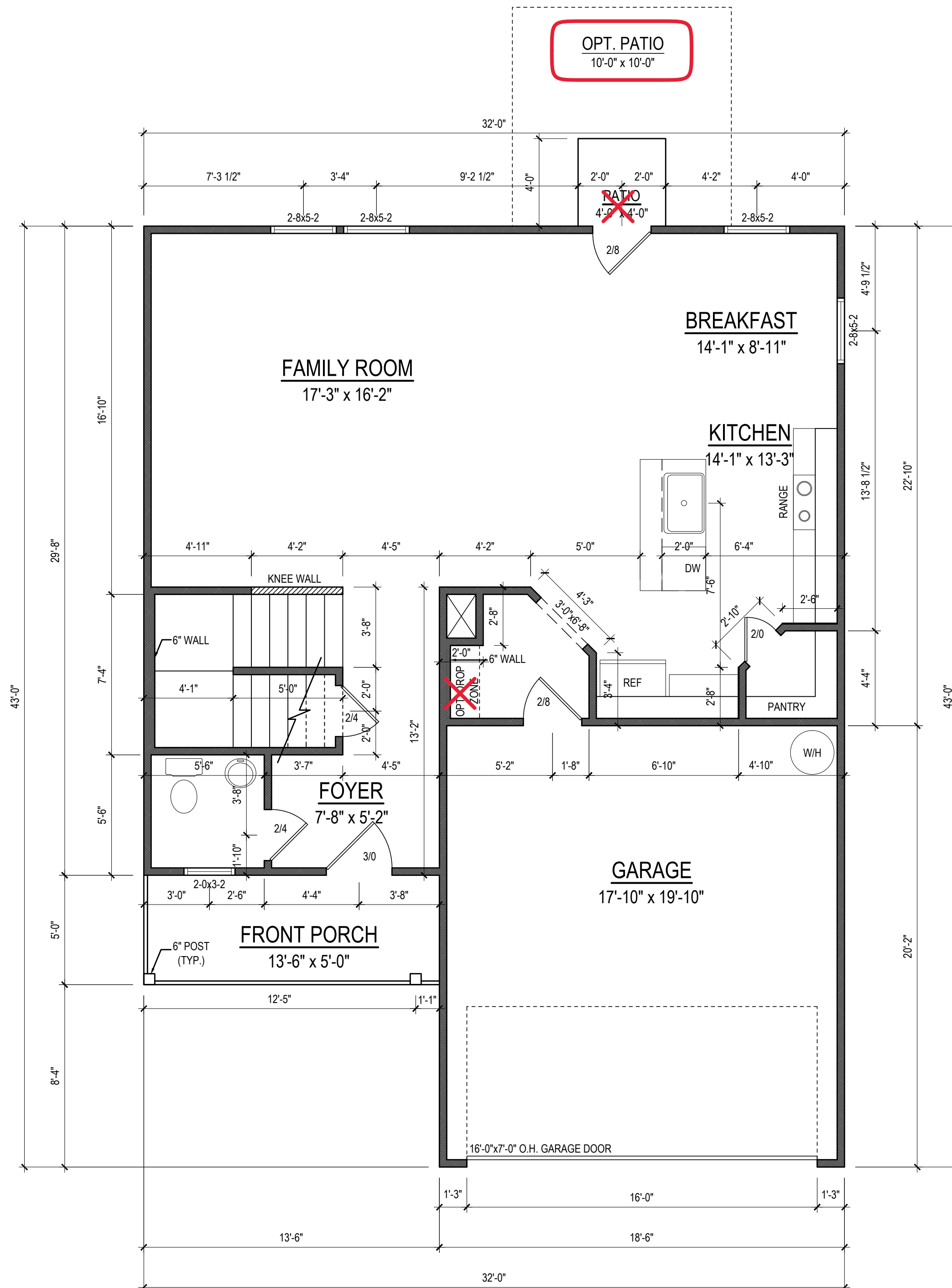
ELEVATIONS

Sheet Number

1

of 6

Email: Kent@KandAHomeDesigns.com      Website: www.KandAHomeDesigns.com



**FIRST FLOOR PLAN**  
1/4" = 1'-0" CEILING HT. = 8'-0"

|                  |  |
|------------------|--|
| Project #        |  |
| 23-099           |  |
| Date:            |  |
| 5-1-23           |  |
| Drawn/Design By: |  |
| KBB              |  |
| Scale:           |  |
| 1/4"=1'-0"       |  |

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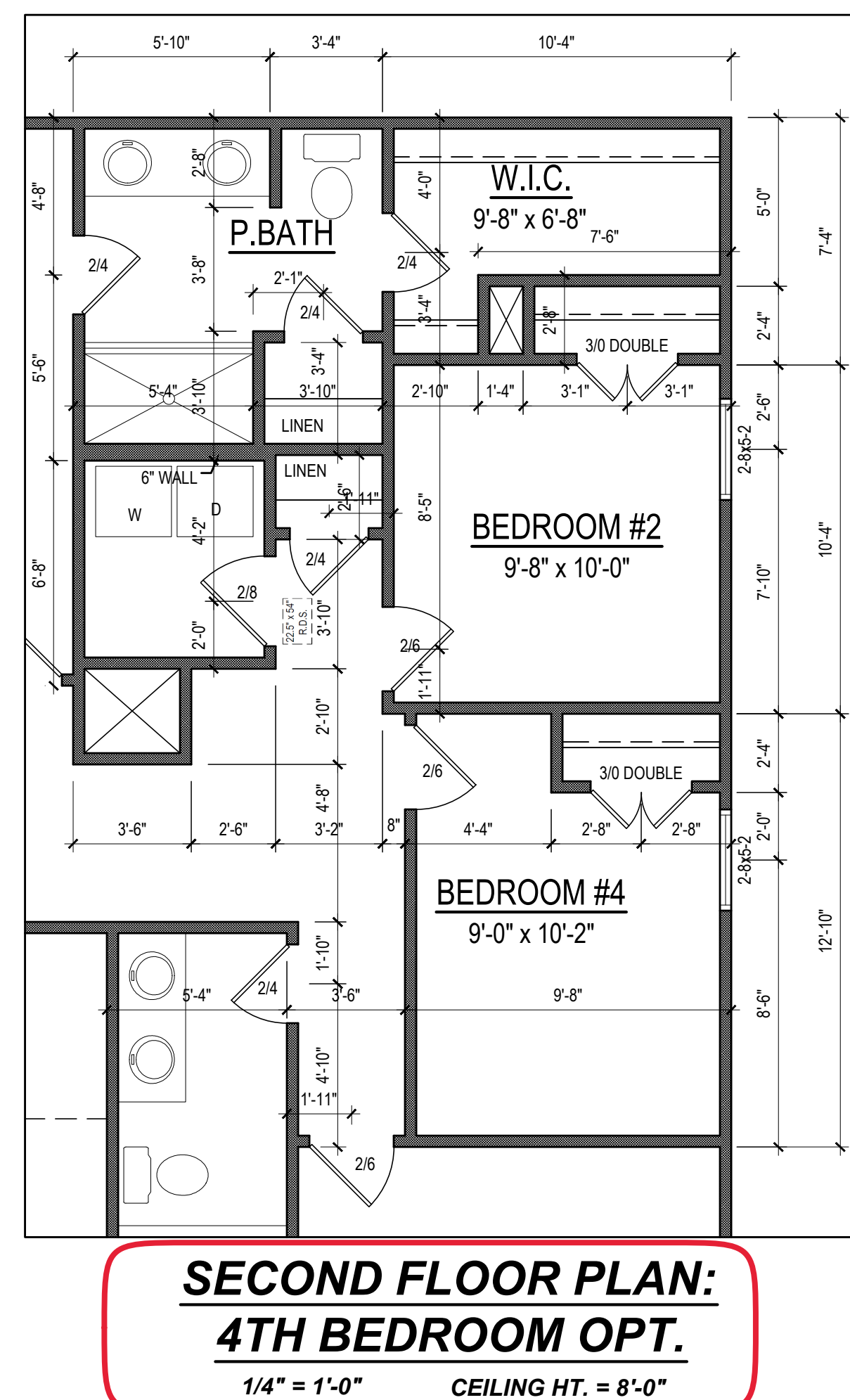
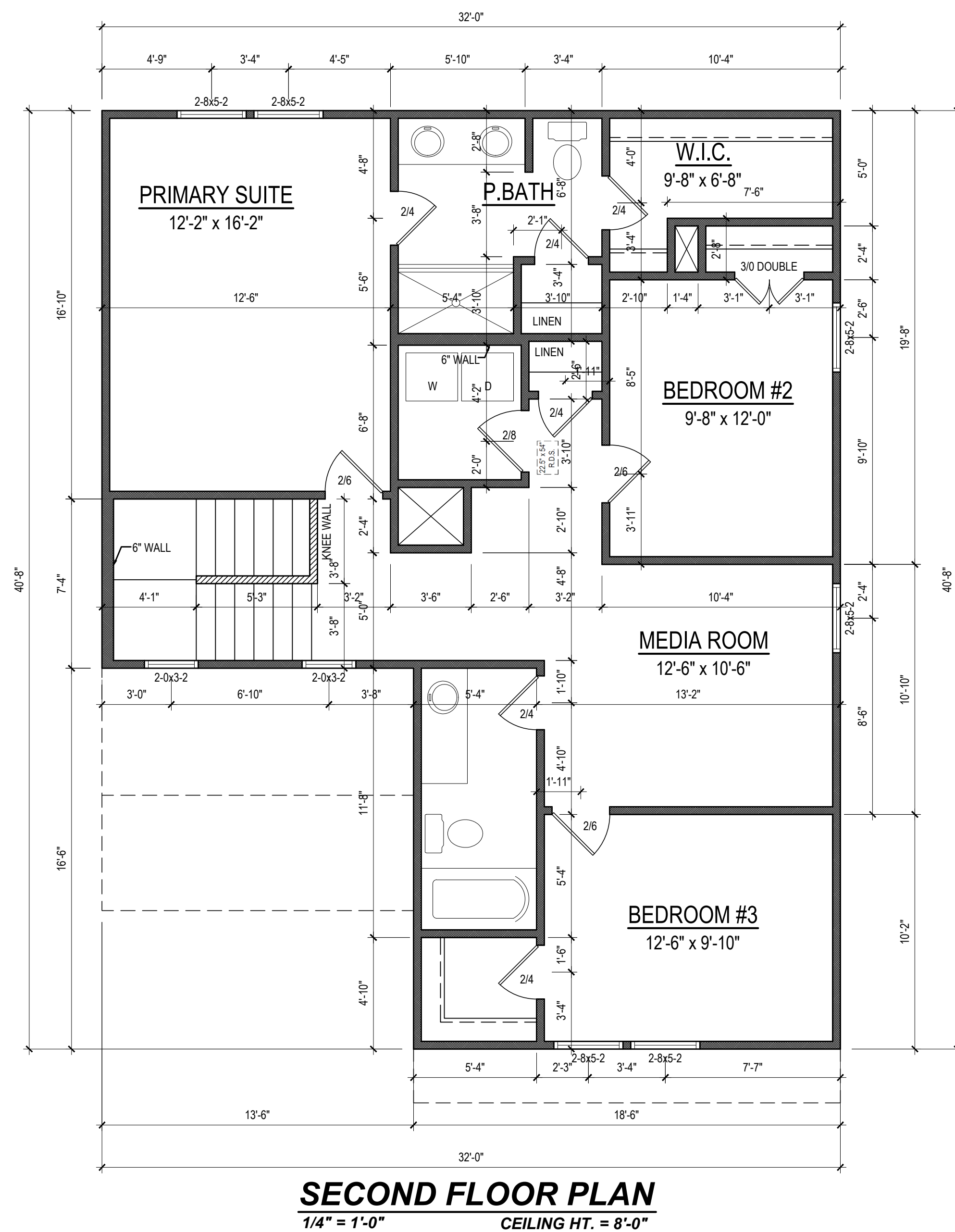
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**Bonnet**

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FIRST FLOOR





Project #:  
23-099

Date:  
5-1-23

Drawn/Design By:  
KBB

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

| <u>REVISIONS</u> |              |                |
|------------------|--------------|----------------|
| <u>No.</u>       | <u>Date:</u> | <u>Remarks</u> |
| 1                |              |                |
| 2                |              |                |
| 3                |              |                |
| 4                |              |                |

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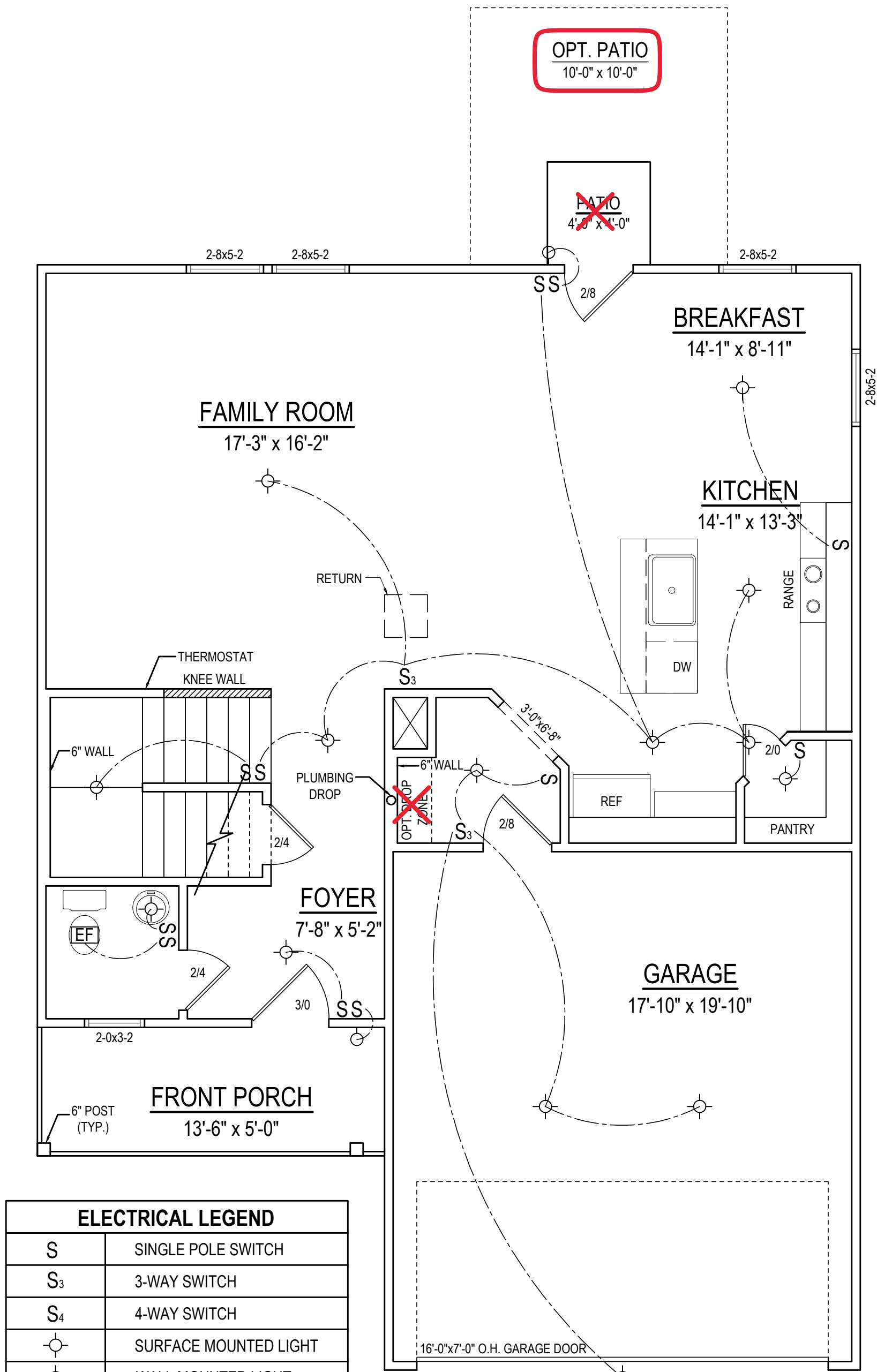
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## SECOND FLOOR

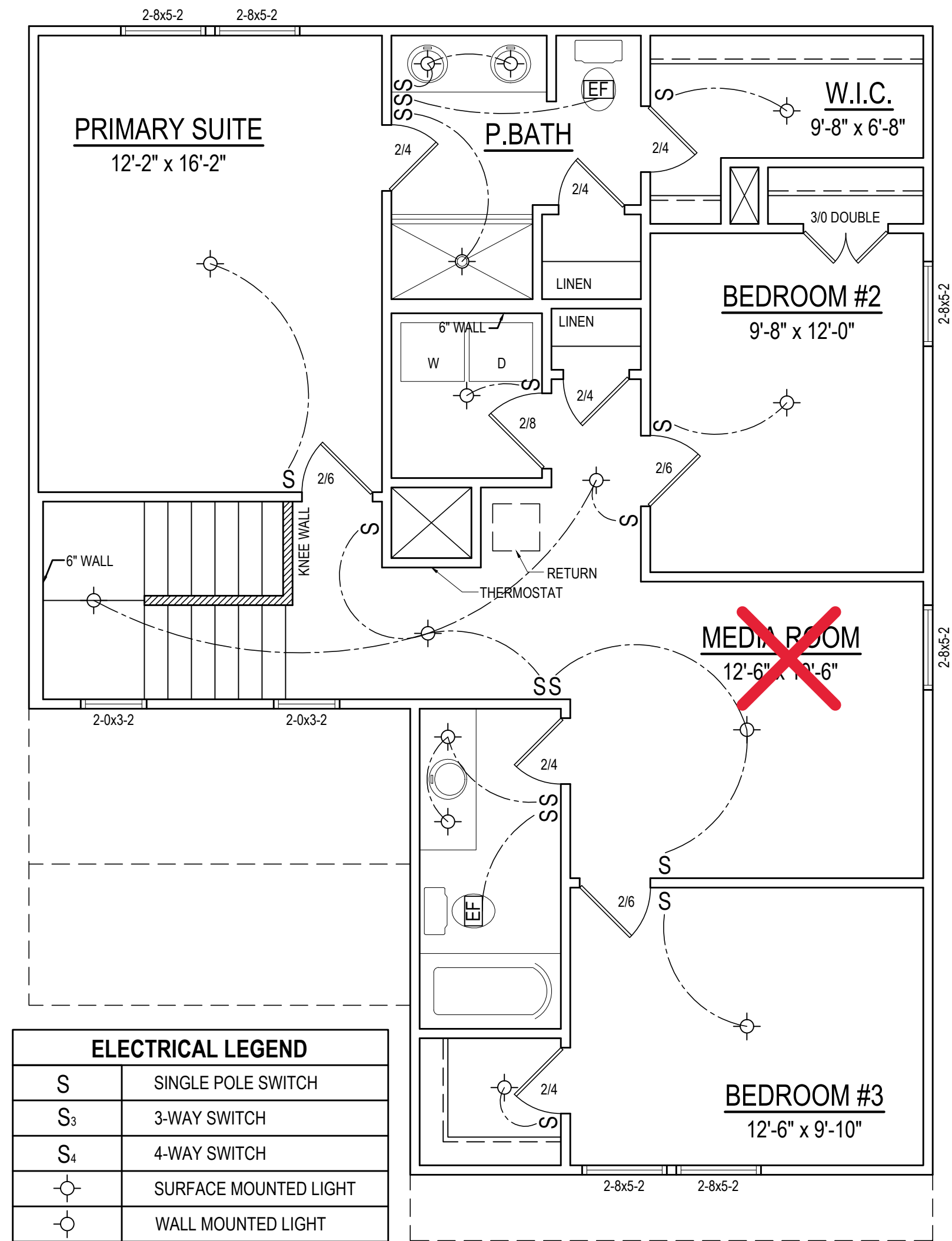
Sheet Number

3  
of 6



| ELECTRICAL LEGEND |                       |
|-------------------|-----------------------|
| S                 | SINGLE POLE SWITCH    |
| S <sub>3</sub>    | 3-WAY SWITCH          |
| S <sub>4</sub>    | 4-WAY SWITCH          |
|                   | SURFACE MOUNTED LIGHT |
|                   | WALL MOUNTED LIGHT    |
| [EF]              | EXHAUST FAN           |

**FIRST FLOOR PLAN**  
1/4" = 1'-0" CEILING HT. = 8'-0"



| ELECTRICAL LEGEND |                       |
|-------------------|-----------------------|
| S                 | SINGLE POLE SWITCH    |
| S <sub>3</sub>    | 3-WAY SWITCH          |
| S <sub>4</sub>    | 4-WAY SWITCH          |
|                   | SURFACE MOUNTED LIGHT |
|                   | WALL MOUNTED LIGHT    |
| [EF]              | EXHAUST FAN           |

**SECOND FLOOR PLAN**  
1/4" = 1'-0" CEILING HT. = 8'-0"

SEE OPTIONAL  
ON NEXT PAGE

|                 |            |
|-----------------|------------|
| Project #       | 23-099     |
| Date            | 5-1-23     |
| Drawn/Design By | KBB        |
| Scale           | 1/4"=1'-0" |

| REVISIONS |      |         |
|-----------|------|---------|
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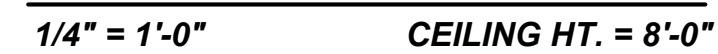
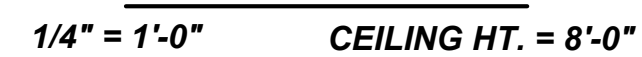
ELECTRICAL PLAN

Sheet Number

4

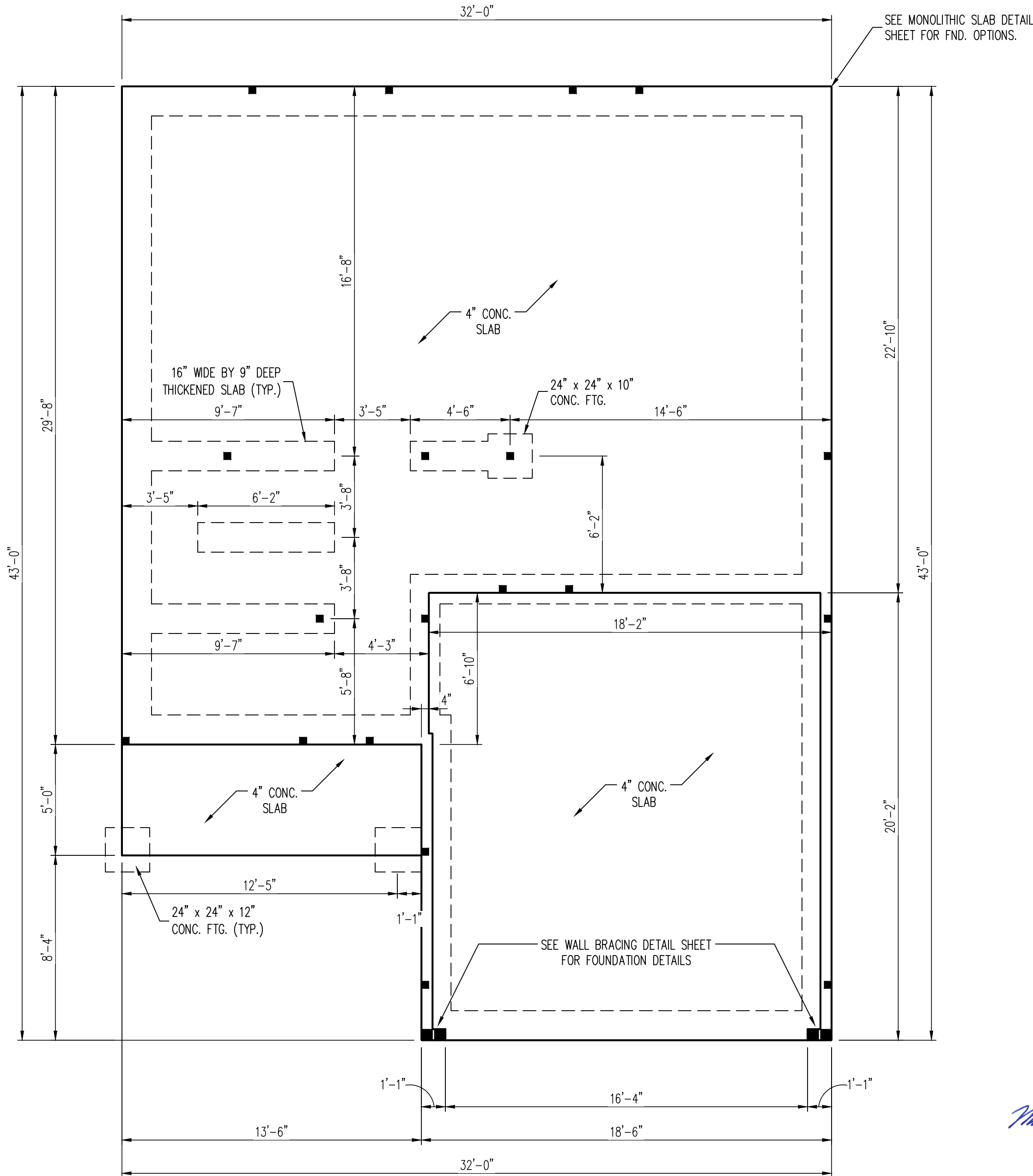
of 6



of 6



10X10  
PATIO



SEE MONOLITHIC SLAB DETAIL  
SHEET FOR FND. OPTIONS.

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

16" WIDE BY 9" DEEP  
THICKENED SLAB (TYP.)

24" x 24" x 12"  
CONC. FTG. (TYP.)

SEE WALL BRACING DETAIL SHEET  
FOR FOUNDATION DETAILS



130 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.
- STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- INSTALL 1/2" ANCHOR BOLTS 4'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 15" INTO MASONRY OR 7" INTO CONCRETE. LOCATE BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.
- MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
- EXTERIOR WALLS DESIGNED FOR 130 MPH WINDS.
- WALL CLADDING DESIGNED FOR +18.2 PSF AND -24 PSF (+/- INDICATE POSITIVE / NEGATIVE PRESSURE (TYP)).
- ROOF CLADDING DESIGNED FOR +16.7 PSF AND -21 PSF FOR ROOF PITCHES 7/12 TO 12/12 AND +10.5 PSF AND -43 PSF FOR ROOF PITCHED 2.25/12 TO 7/12.
- INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10.3 OF THE NRCR, 2018 EDITION. SEE THE WALL BRACING NOTES AND DETAILS SHEET FOR MORE INFORMATION.
- ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NRCR, 2018 EDITION.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

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.
- 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.
- 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 7/12.
- INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10.3 OF THE NRCR, 2018 EDITION. SEE THE WALL BRACING NOTES AND DETAILS SHEET FOR MORE INFORMATION.
- ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NRCR, 2018 EDITION.
- 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              |
| SPF  | SPRUCE PINE FIR        |
| SYP  | SOUTHERN YELLOW PINE   |
| TRTD | PRESSURE TREATED       |
| TYP  | TYPICAL                |
| UNO  | UNLESS NOTED OTHERWISE |

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PHONE: (919) 789-9919 - FAX: (919) 789-9921  
N.C. LICENSE NO.: C1733

BONNET  
BEN STOUT CONSTRUCTION

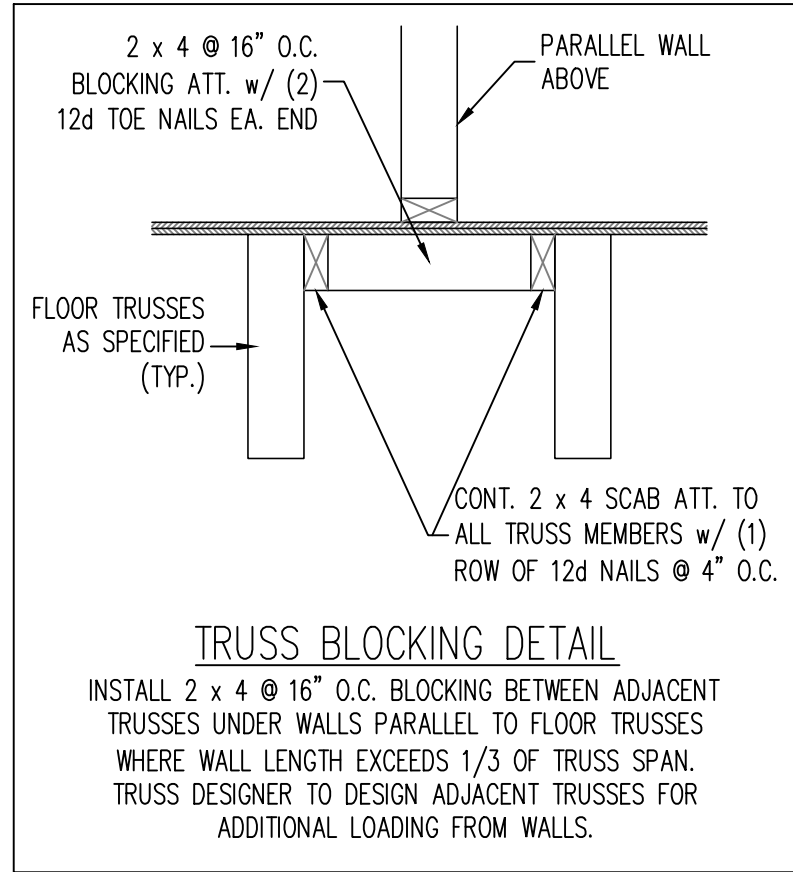
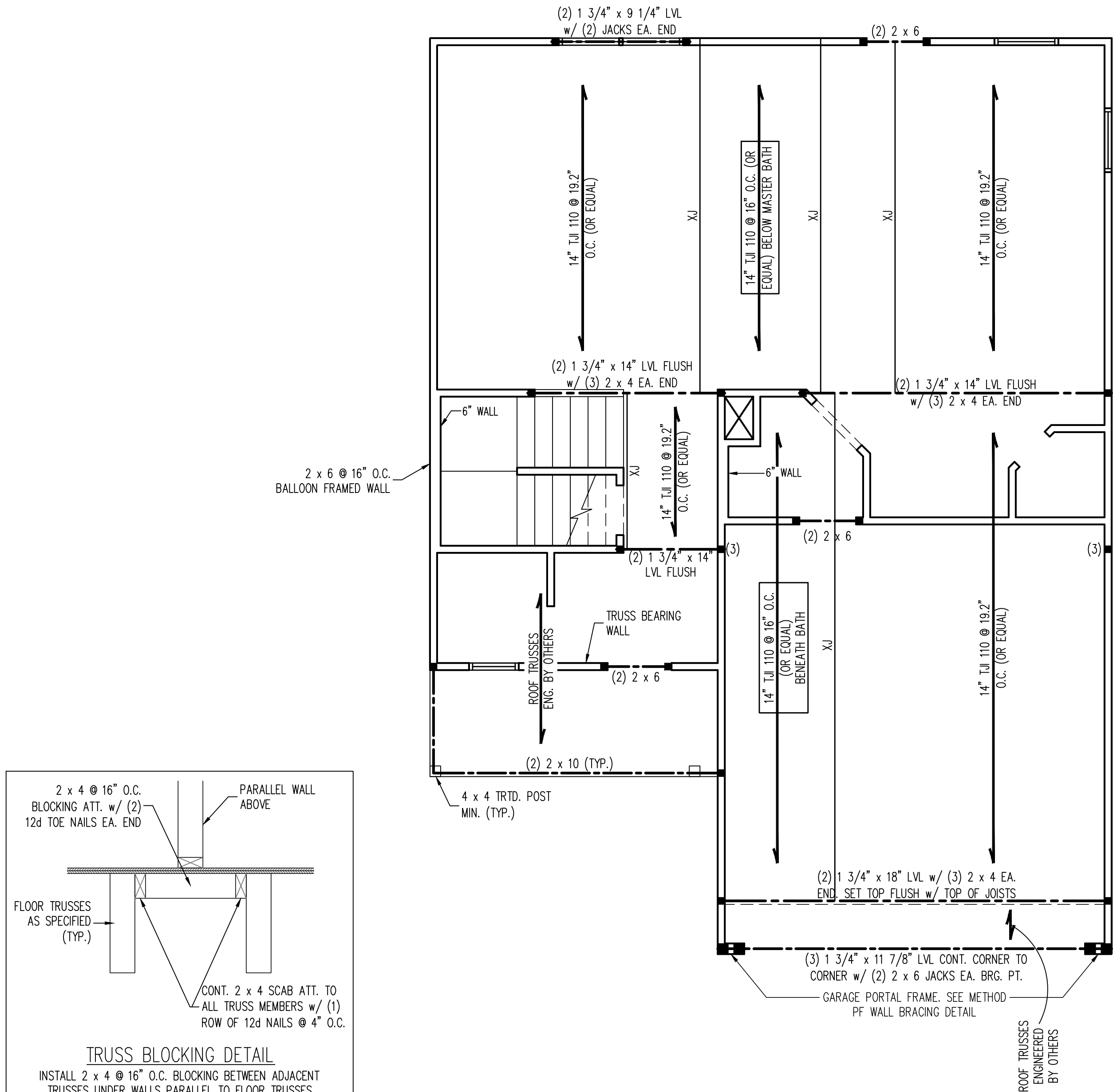
DATE: JULY 1, 2024

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

DRAWN BY: K&A HOME DESIGN

ENGINEERED BY: JAG

S-1b  
MONO SLAB  
FOUNDATION PLAN



**NOTE:**

- BCI 4500s-1.8 JOISTS MAY BE INSTALLED IN LIEU OF TJI 110 JOISTS AT THE DEPTH AND SPACING INDICATED ON THE PLAN.
- 14" FLOOR TRUSSES ENG. BY OTHERS MAY BE INSTALLED IN LIEU OF I-JOISTS. SEE FLOOR TRUSS BLOCKING DETAIL FOR EXTRA TRUSS ALTERNATIVE.

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

**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).
- 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.

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 |                        |
|--------|------------------------|
| 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 |



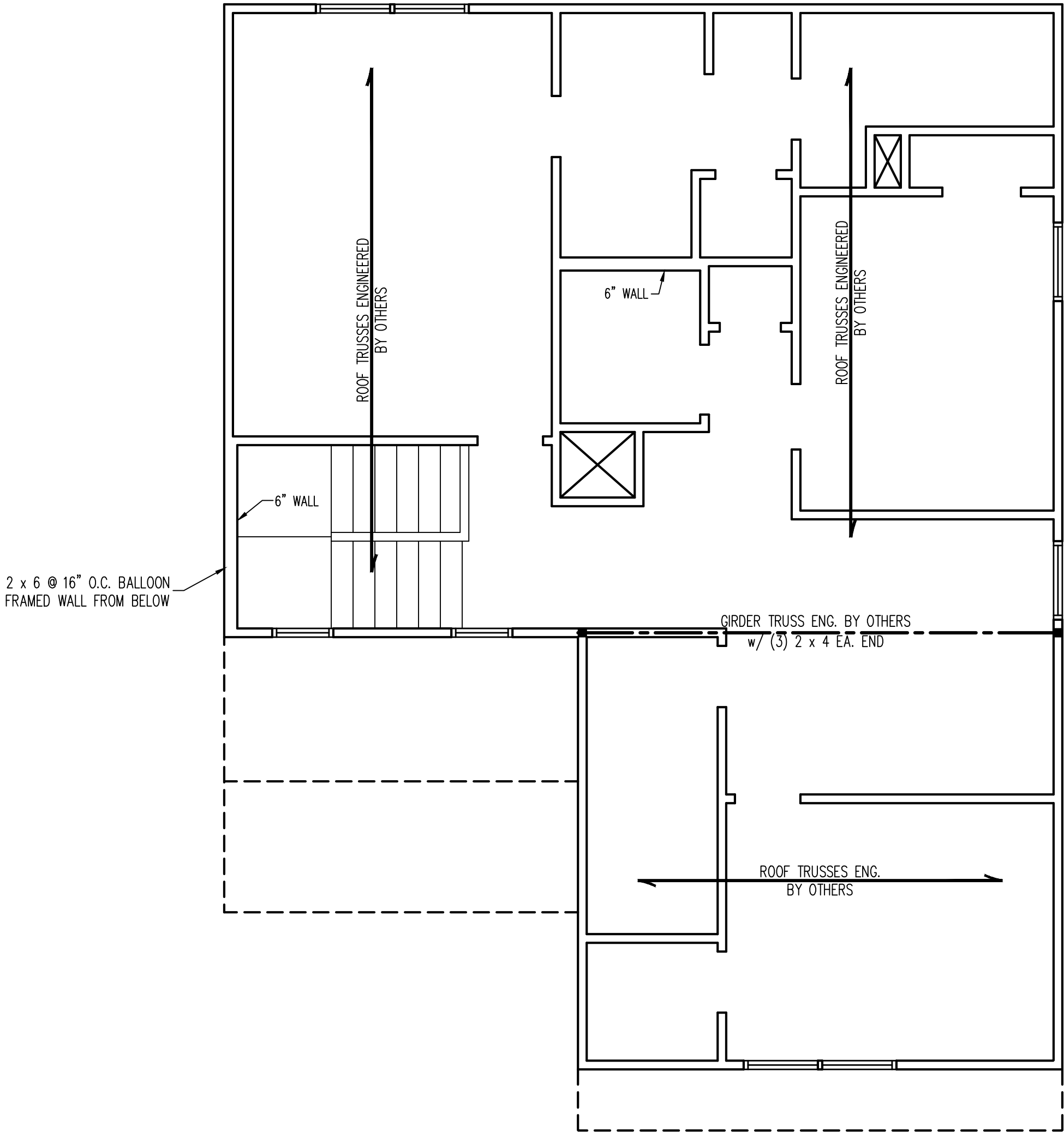
**J.S. THOMPSON  
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333 EAST SIX FORKS ROAD, SUITE 180 - RALEIGH, NC 27609  
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N.C. LICENSE NO.: C1733

**BONNET  
BEN STOUT CONSTRUCTION**

DATE: JULY 1, 2024  
SCALE: 1/4" = 1'-0"  
DRAWN BY: K&A HOME DESIGN  
ENGINEERED BY: JAG

**S-2  
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.
- SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE #2 SPF (UNO).
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
- WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.). SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SQUARES TO BE (2) STUDS (UNO.)
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

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

| HEADER SPAN<br>(FEET) | MINIMUM NUMBER OF FULL<br>HEIGHT STUDS (KINGS) |
|-----------------------|------------------------------------------------|
| UP TO 3'              | 1                                              |
| > 3' TO 6'            | 2                                              |
| > 6' TO 9'            | 3                                              |
| > 9' TO 12'           | 4                                              |
| > 12' TO 15'          | 5                                              |

LEGEND

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



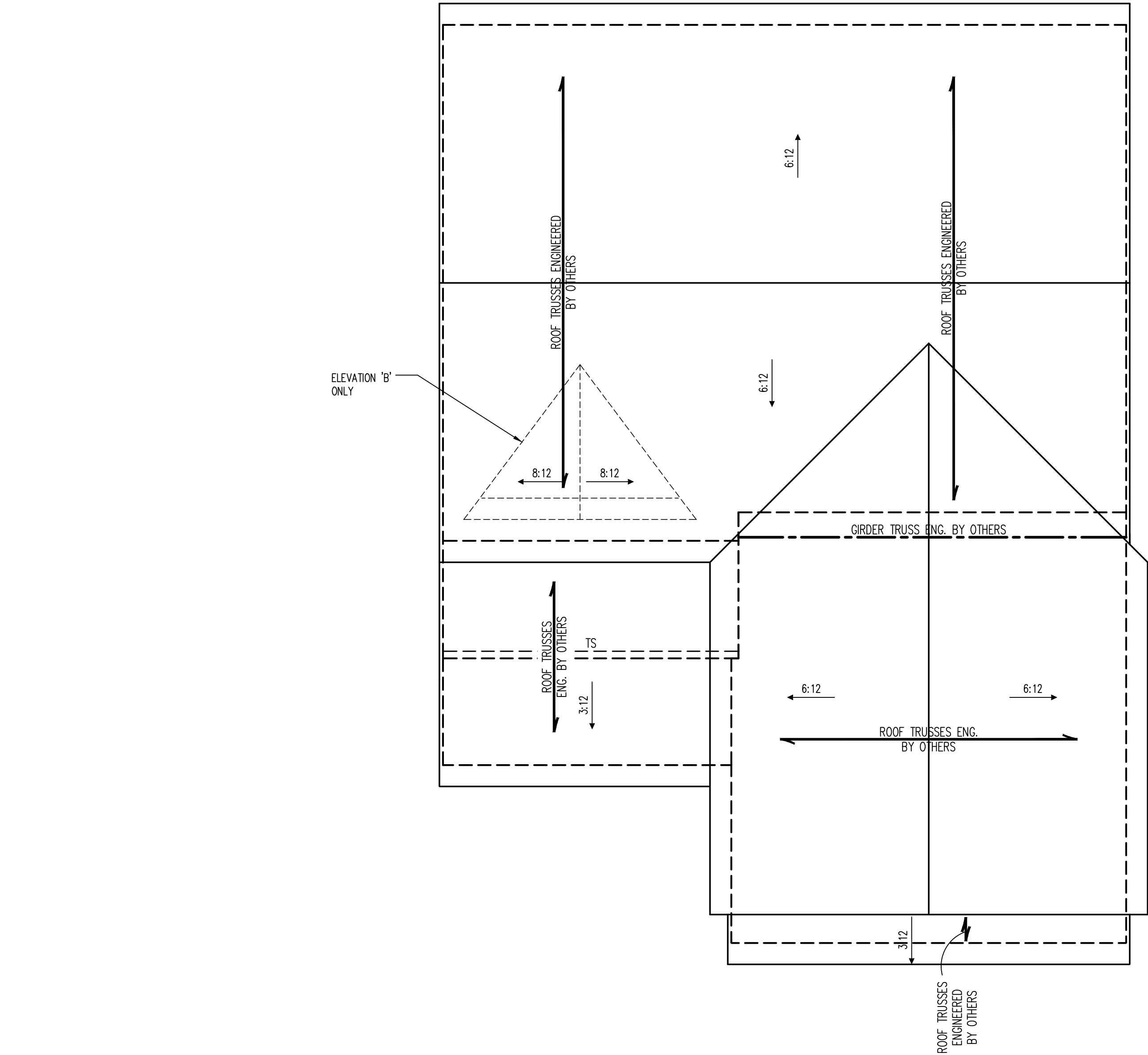
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N.C. LICENSE NO.: C1733

BONNET  
BEN STOUT CONSTRUCTION

DATE: JULY 1, 2024  
SCALE: 1/4" = 1'-0"  
DRAWN BY: K&A HOME DESIGN  
ENGINEERED BY: JAG

S-3  
ATTIC FLOOR  
FRAMING PLAN





STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE #2 SPF (UNO).
- STICK FRAME OVER-FRAMED ROOF SECTIONS W/ 2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 VALLEYS 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 SECTION R802.11 OF THE 2018 NCRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND TRUSSES.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

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

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



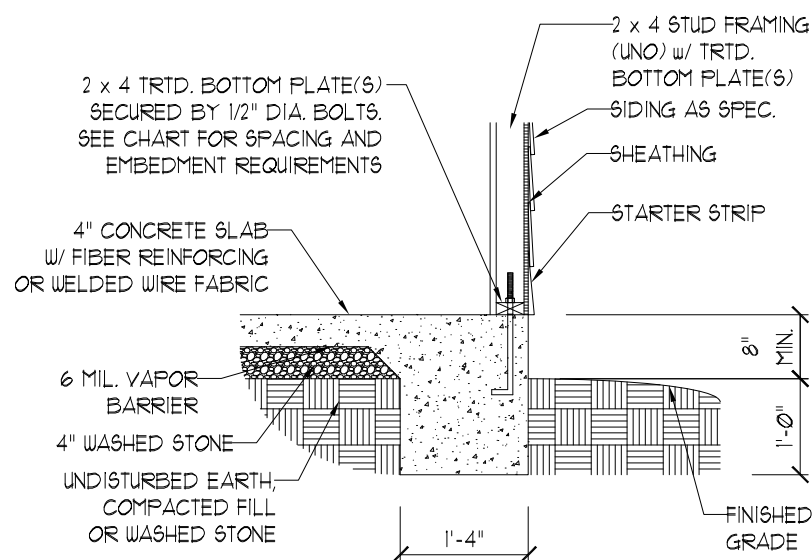
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**BONNET**  
**BEN STOUT CONSTRUCTION**

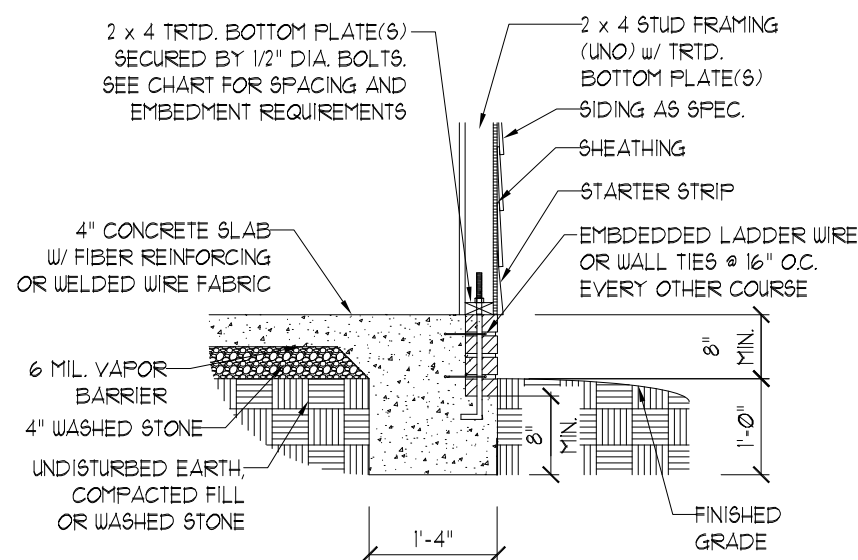
DATE: JULY 1, 2024  
SCALE: 1/4" = 1'-0"  
DRAWN BY: K&A HOME DESIGN  
ENGINEERED BY: JAG

**S4**  
ROOF FRAMING  
PLAN



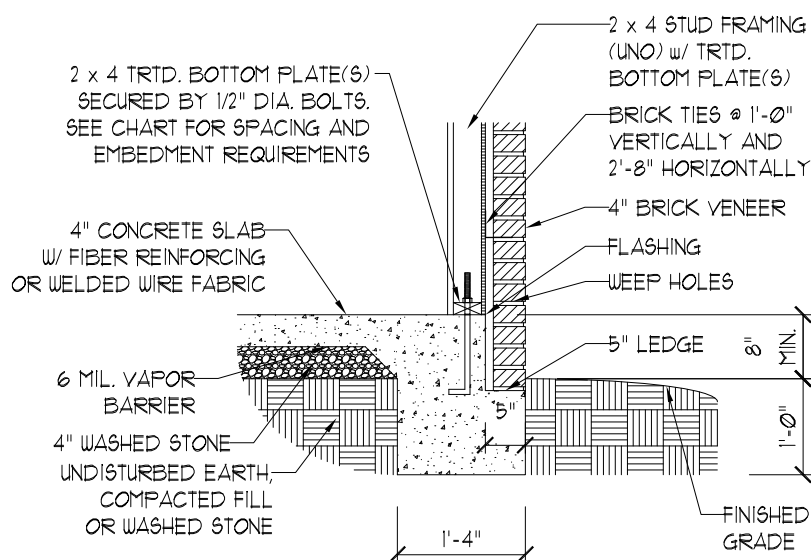
TYPICAL SLAB

1



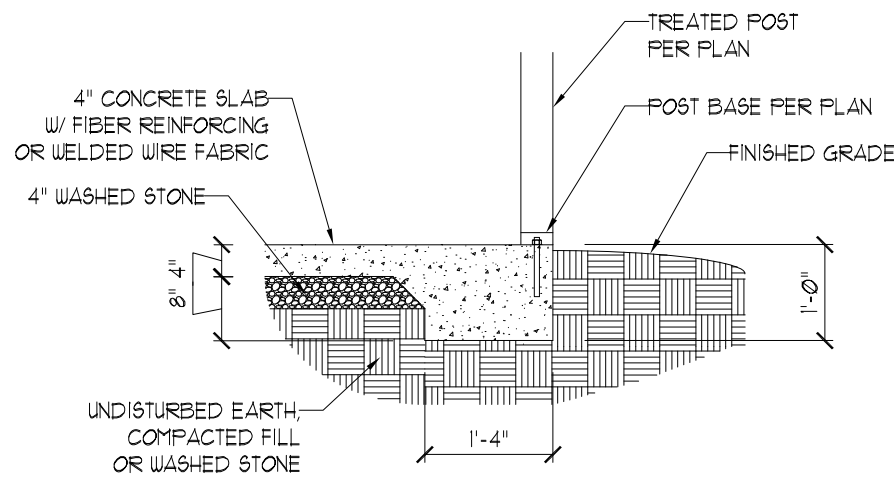
TYPICAL SLAB w/ BRICK LEDGE

2



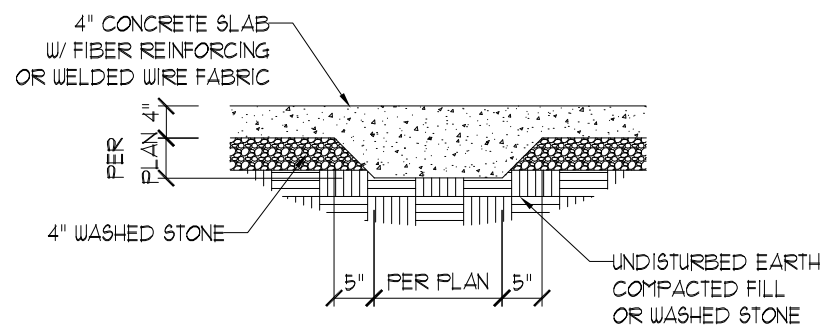
TYPICAL SLAB w/ BRICK VENEER LEDGE

3



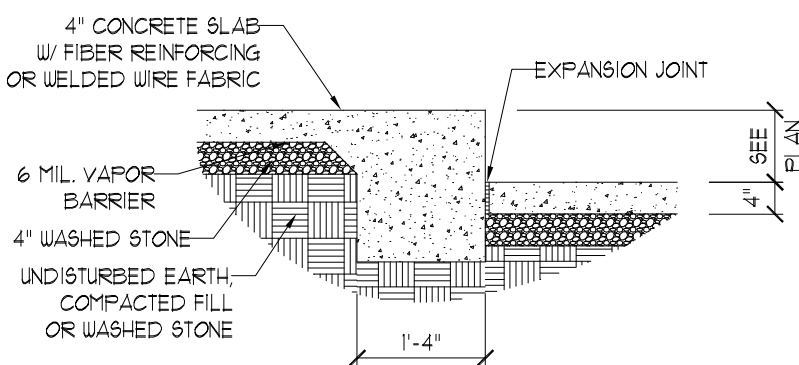
PORCH/SCREEN PORCH

4



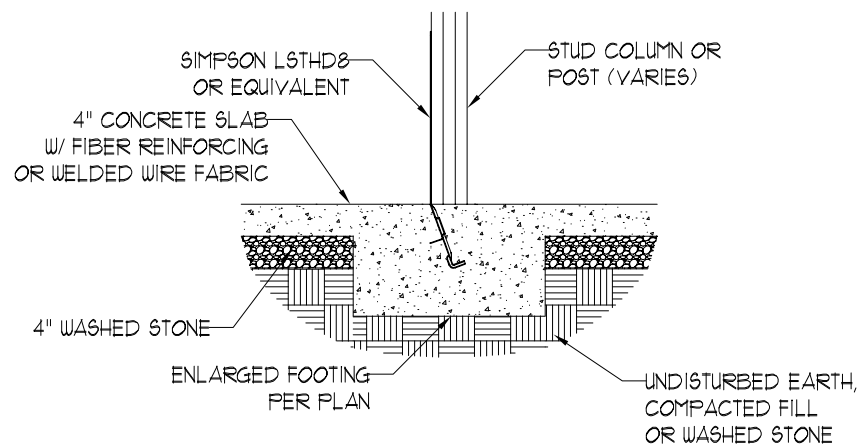
TYPICAL THICKENED SLAB

5



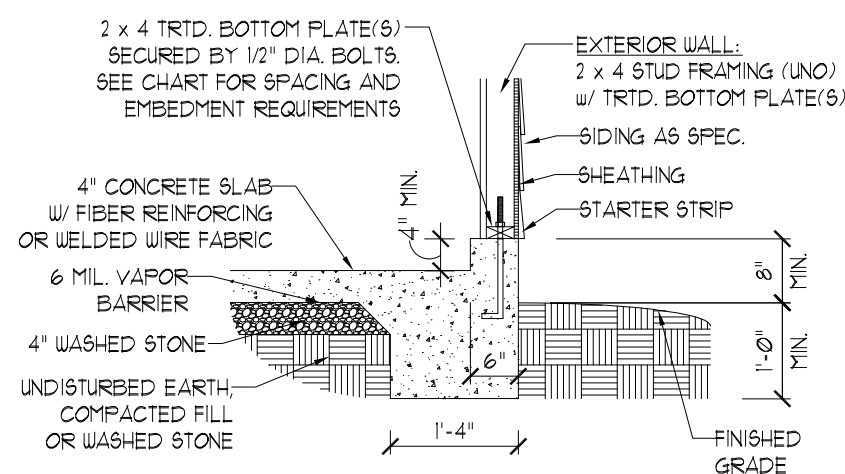
SLAB FLOOR CHANGE

6



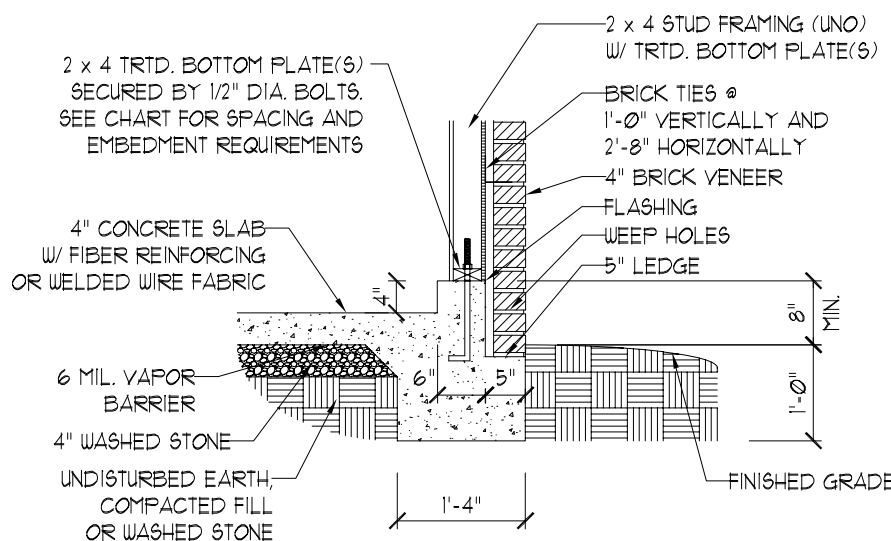
TYPICAL COLUMN TO  
SLAB CONNECTION

7



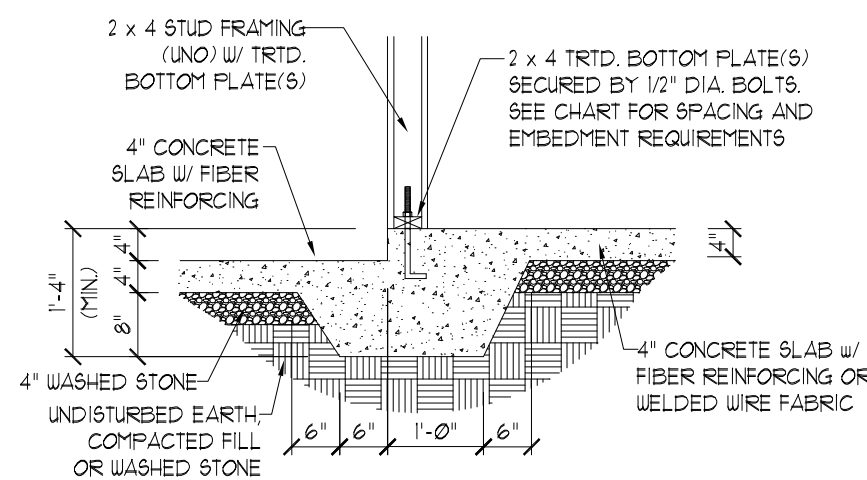
GARAGE CURB

8



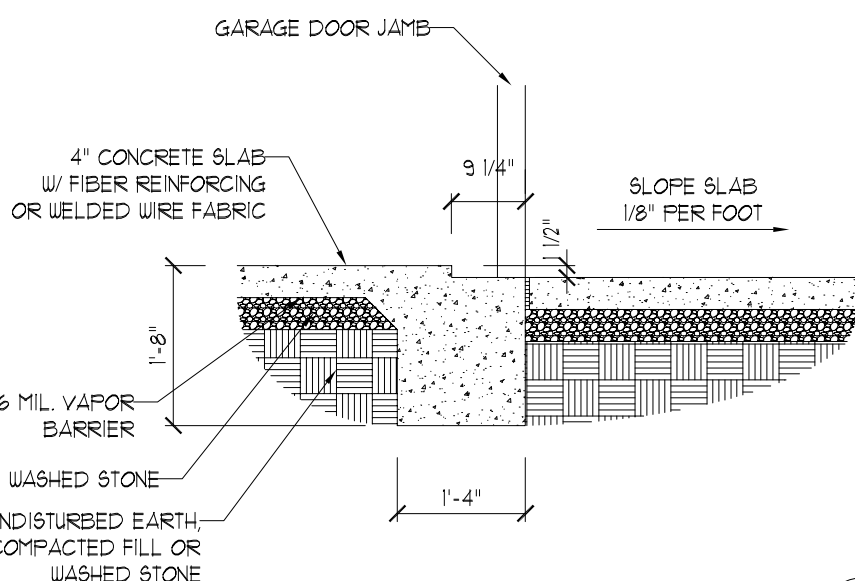
GARAGE CURB w/ BRICK LEDGE

9



STEP IN GARAGE

10



SLAB AT GARAGE DOOR

11

ANCHOR SPACING AND EMBEDMENT

| WIND ZONE | 120 MPH                                                                                             | 130 MPH                                                                                             |
|-----------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| SPACING   | 6'-0" O.C.<br>INSTALL MIN. (2) ANCHORS PER<br>PLATE SECTION AND (1)<br>ANCHOR WITHIN 12" OF CORNERS | 4'-0" O.C.<br>INSTALL MIN. (2) ANCHORS PER<br>PLATE SECTION AND (1)<br>ANCHOR WITHIN 12" OF CORNERS |
| EMBEDMENT | 7"                                                                                                  | 15" INTO MASONRY<br>7" 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.



7/2/2024

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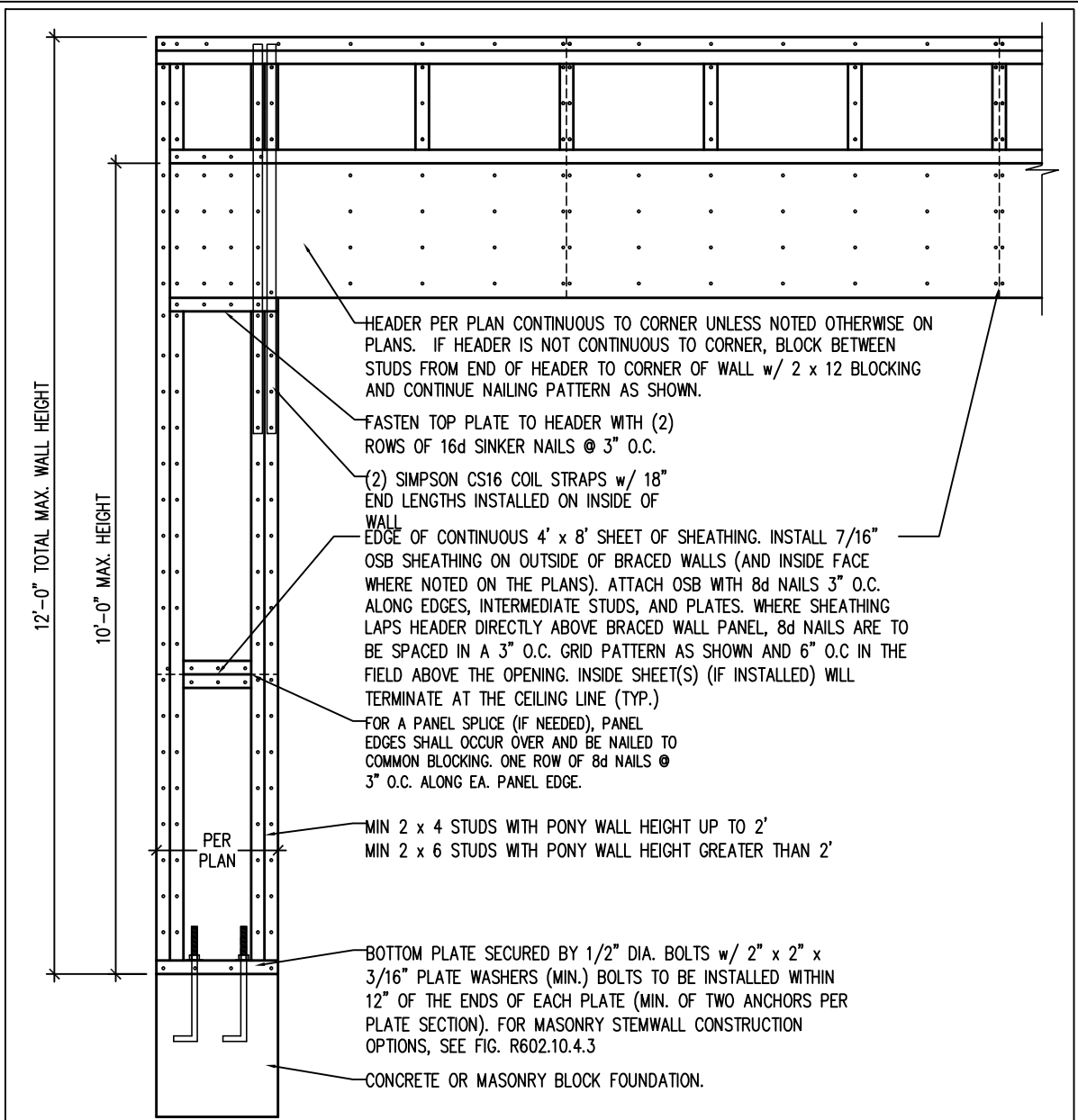
MONOLITHIC SLAB  
FOUNDATION DETAILS

DATE: AUGUST 30, 2022  
SCALE: NTS  
DRAWN BY: JST  
ENGINEERED BY: JST

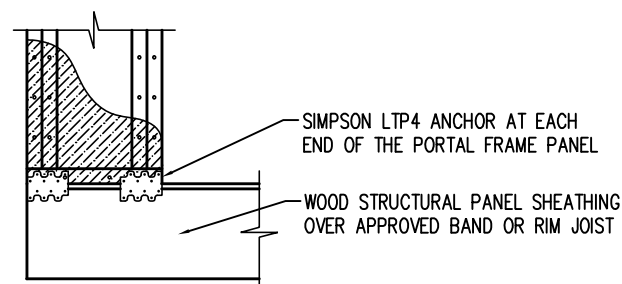
FOUNDATION  
DETAILS



1. WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NRC.
2. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NRC FOR ADDITIONAL INFORMATION AS NEEDED.
3. 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.
4. 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.
5. 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
7. CS-WSP 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.).
8. 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 1/4" SCREWS OR 1/8" 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.
9. 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.



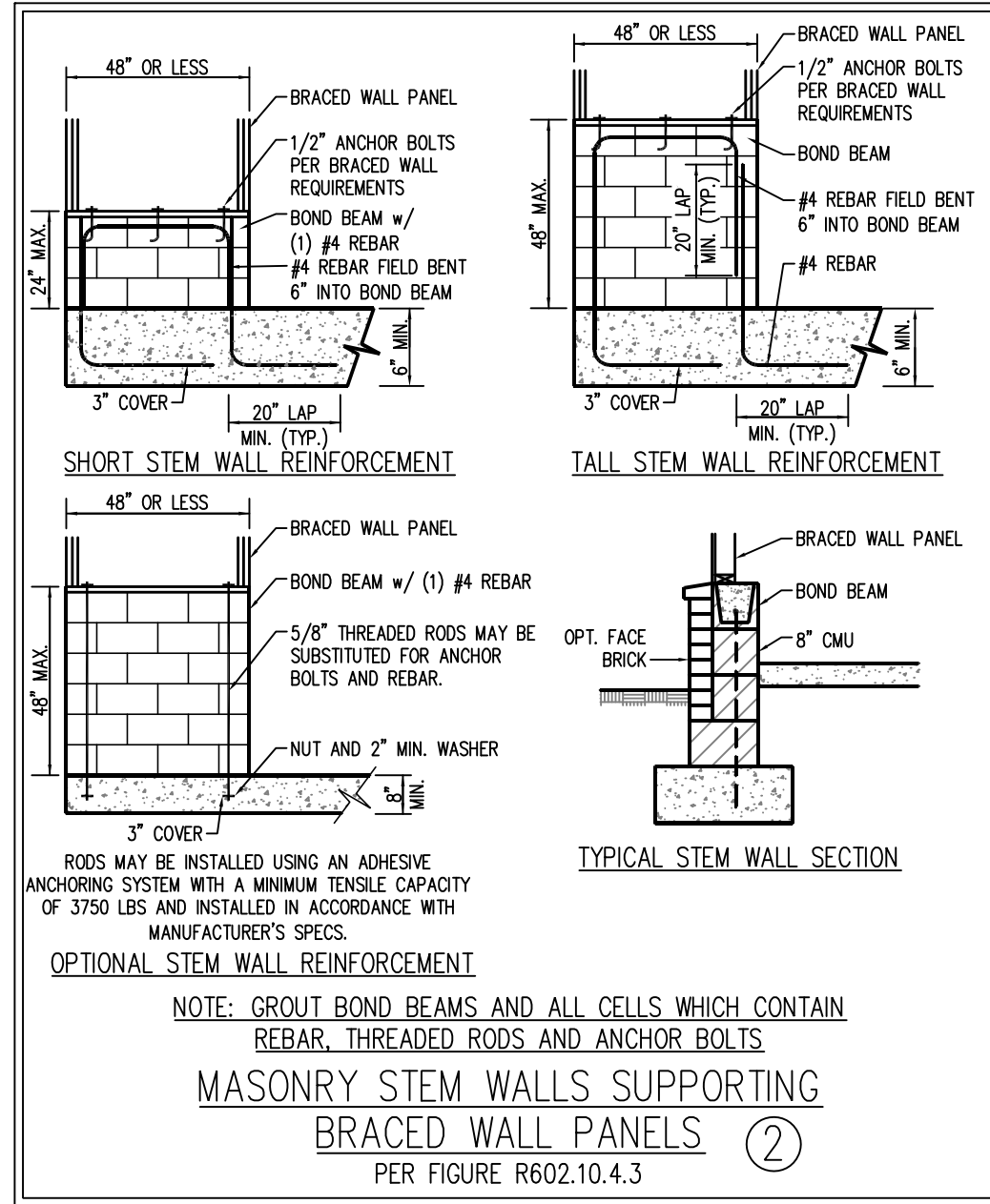
OVER CONCRETE OR MASONRY BLOCK FOUNDATION



### OVER RAISED WOOD FLOOR – FRAMING ANCHOR OPTION

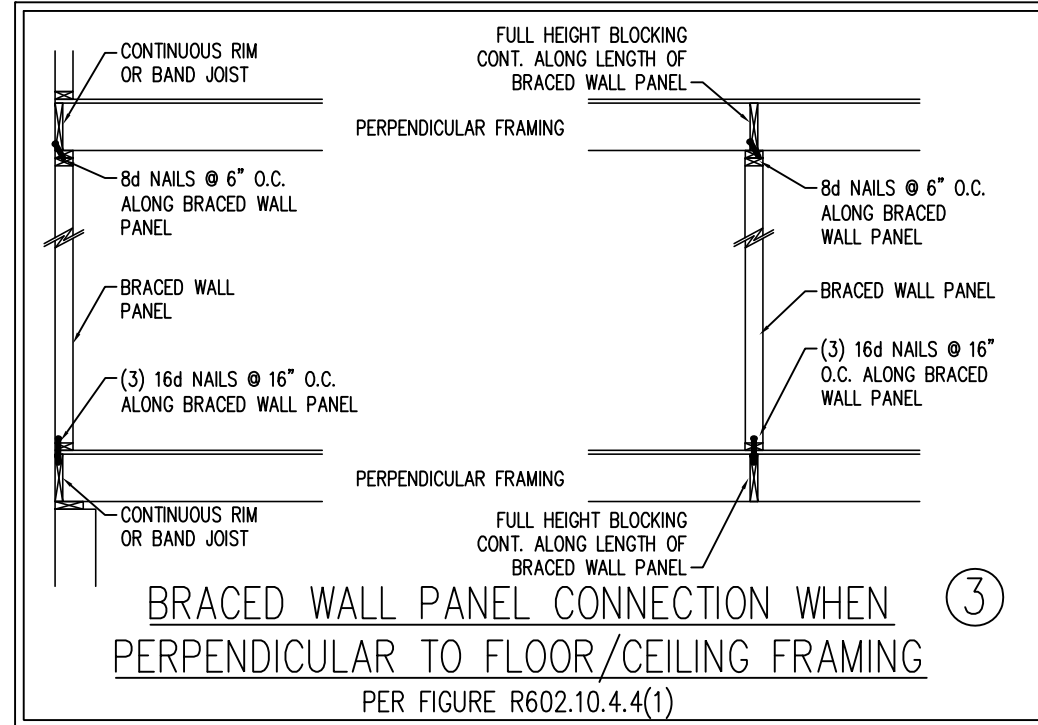
\* APPLICABLE w/ GREATER THAN 12" KNEE WALL HEIGHTS IN CRAWL SPACE AND ABOVE FRAMED BASEMENT WALLS \*

METHOD PF-PORTAL FRAME DETAIL ①



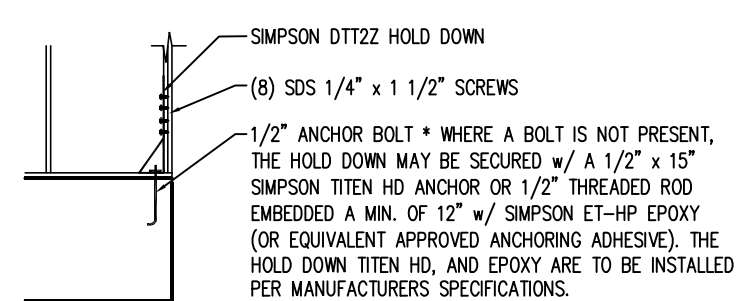
MASONRY STEM WALLS SUPPORTING  
BRACED WALL PANELS (2)  
PER FIGURE R602.10.4.3

PER FIGURE R602.10.4.3



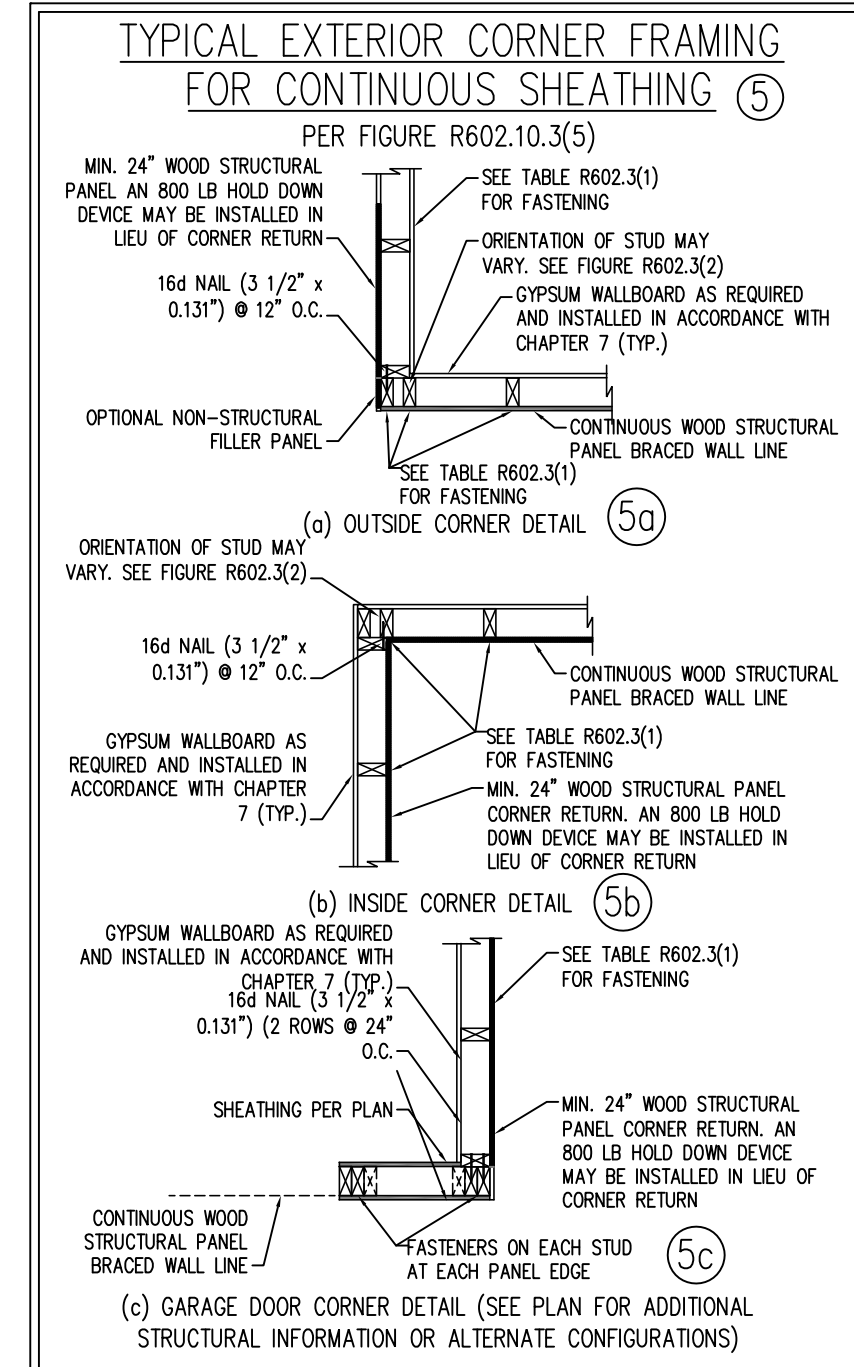
## BRACED WALL PANEL CONNECTION WHEN PERPENDICULAR TO FLOOR/CEILING FRAMING

PER FIGURE R602.10.4.4(1)



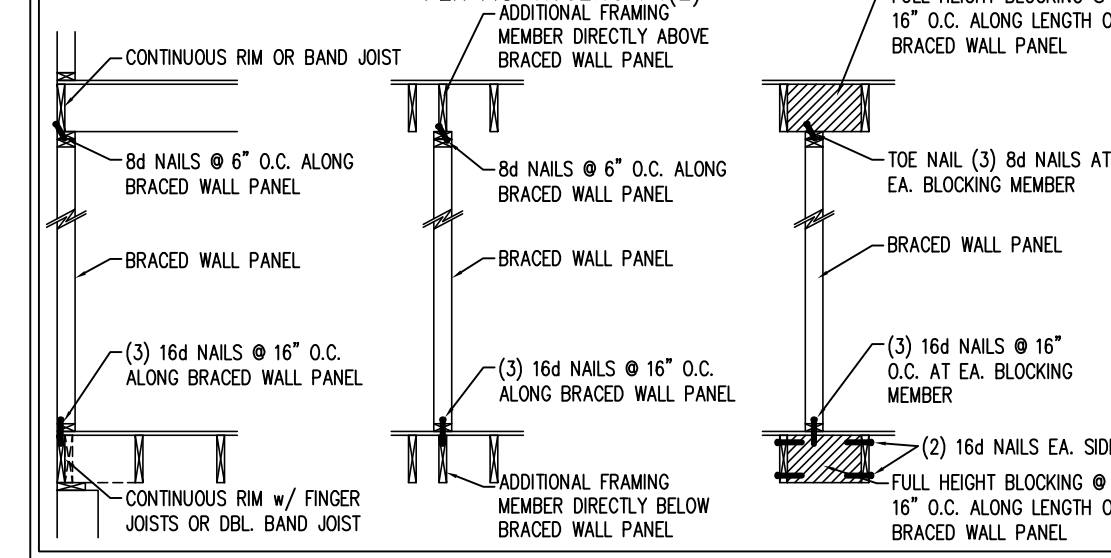
HOLD DOWN DETAIL FOR MASONRY  
FOUNDATION OR MONOLITHIC SLAB

\* APPLICABLE ONLY WHERE SPECIFIED ON PLAN \*



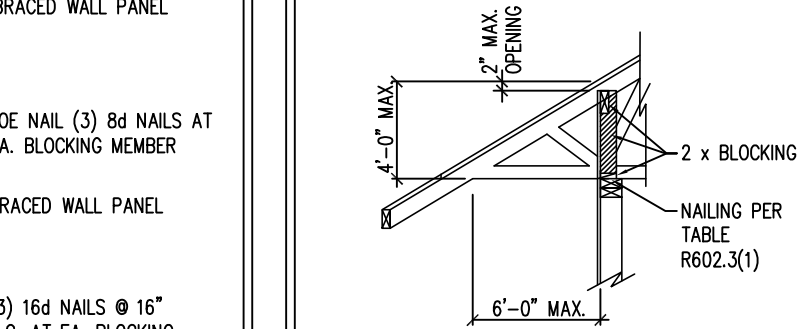
## BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING ⑥

PER FIG. R602.10.4.4(2)



## BRACED WALL PANEL CONNECTION TO PERPENDICULAR ROOF TRUSSES

PER FIGURE R602.10.4.5(3) (9)  
(OR ALTERNATIVE: FIGURE R602.10.4.5(2))



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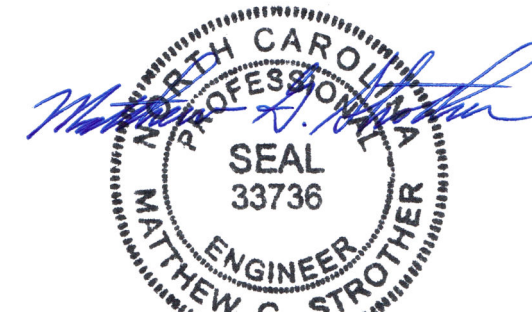
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## WALL BRACING NOTES AND DETAILS

|                       |
|-----------------------|
| DATE: AUGUST 30, 2022 |
| SCALE: 1/4" = 1'-0"   |
| DRAWN BY: JST         |
| ENGINEERED BY: JST    |

BRACED WALL NOTES AND  
DETAILS AND PF DETAIL

7/2/2024





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)

| DESIGN CRITERIA:               | LIVE LOAD (PSF)                                   | DEAD LOAD (PSF) | DEFLECTION (IN)                   |
|--------------------------------|---------------------------------------------------|-----------------|-----------------------------------|
| ATTIC WITH LIMITED STORAGE     | 20                                                | 10              | L/240 (L/360 w/ BRITTLE FINISHES) |
| ATTIC WITHOUT STORAGE          | 10                                                | 10              | L/360                             |
| DECKS                          | 40                                                | 10              | L/360                             |
| EXTERIOR BALCONIES             | 40                                                | 10              | L/360                             |
| FIRE ESCAPES                   | 40                                                | 10              | L/360                             |
| HANDRAILS/GUARDRAILS           | 200                                               | 10              | L/360                             |
| PASSENGER VEHICLE GARAGE       | 50                                                | 10              | L/360                             |
| ROOMS OTHER THAN SLEEPING ROOM | 40                                                | 10              | L/360                             |
| SLEEPING ROOMS                 | 30                                                | 10              | L/360                             |
| STAIRS                         | 40                                                | 10              | L/360                             |
| WIND LOAD                      | (BASED ON TABLE R301.2(4) WIND ZONE AND EXPOSURE) |                 |                                   |
| GROUND SNOW LOAD: Pg           | 20 (PSF)                                          |                 |                                   |

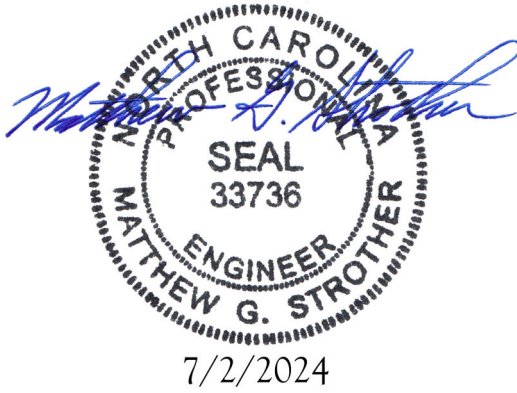
- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD

4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 OF THE NCRC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.

5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

1. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24” FOR CLEAN SAND OR GRAVEL. A 4” THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL 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.
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 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
- |                                |                                |
|--------------------------------|--------------------------------|
| 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 A53, GRADE B, TYPE E OR S |
4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2” AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (UNO):
- |                            |                                                  |
|----------------------------|--------------------------------------------------|
| A. WOOD FRAMING            | (2) 1/2” DIA. x 4” LONG LAG SCREWS               |
| B. CONCRETE                | (2) 1/2” DIA. x 4” WEDGE ANCHORS                 |
| C. MASONRY (FULLY GROUTED) | (2) 1/2” DIA. x 4” LONG SIMPSON TITEN HD ANCHORS |
| D. STEEL PIPE COLUMN       | (4) 3/4” DIA. A325 BOLTS OR 3/16” FILLET WELD    |

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM w/ (2) ROWS OF SELF TAPPING SCREWS @ 16” O.C. OR (2) ROWS OF 1/2” DIAMETER BOLTS @ 16” O.C. IF 1/2” BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/ (2) ROWS OF 9/16” DIAMETER HOLES @ 16” O.C.

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).
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.

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STANDARD STRUCTURAL NOTES

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STRUCTURAL  
NOTES