



C Square Footages:

1st Floor	1089
2nd Floor	1485
Alternate 2nd Floor	1488
Garage	431
Front Porch	101
Covered Back Porch	100
3rd Car Garage Option	200

2574

10 LDP

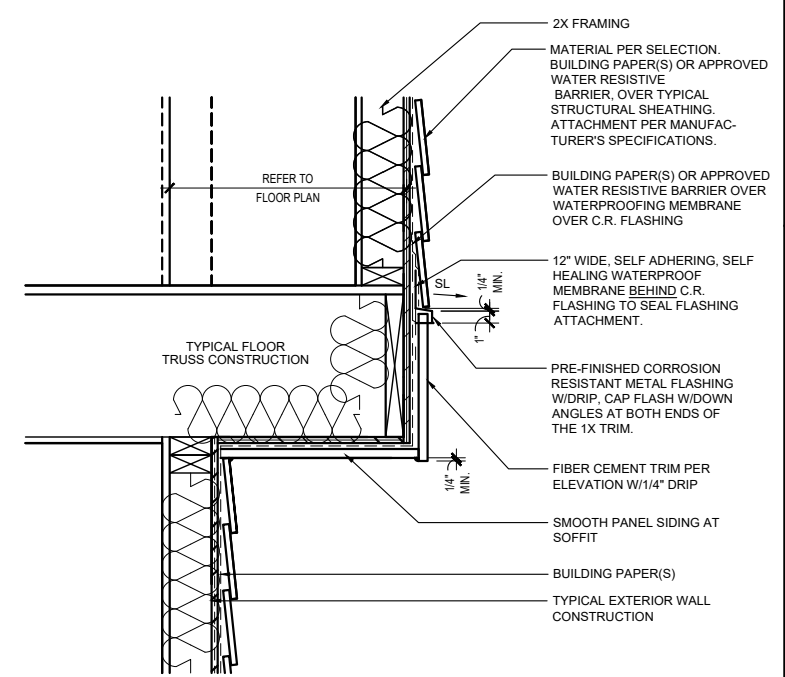
**Russell C**  
Genesis Series  
V.03.02.00.00

Features:  
Drawn By: AM  
Rev By: CJA /AW EB  
Date: 9/6/2024

**A1**



**FRONT ELEVATION**  
3/16" = 1'-0"



SEE ENGINEERING FOR STRUCTURAL INFORMATION

**BOXED BAY DETAIL**  
3/4" = 1'-0"

~~SEE SHEET AA-1 FOR STONE & BRICK WATER TABLE OPTIONS~~

**9FT CEILING OPTION NOTES:**  
1. Fascia heights from 1st Flr of main house increase 12in. Fascia heights from 2nd Flr of main house remain the same.  
2. Fascia/beam/column heights at Front and Rear Porches remain the same (regardless of fascia @ main house.)  
3. Roof pitch at porch may change. Follow notes at elevations.  
4. Window heights and sizes remain the same.

LISTS OF DRAWINGS			
<b>A1 Base Front Elevation</b>	<b>A2 Base Side &amp; Rear Elevations</b>	<b>B1 First Floor Plan</b>	<b>E1 First Floor Electrical</b>
A1b Front w/ 3rd Car Garage Opt.	A2b Elevations w/ 3rd Car Garage Opt.	<b>B2 Second Floor Plan</b>	<b>E2 Second Floor Electrical</b>
AA-1 Front w/ Brick/Stone Opt.	<b>A3 Elevations w/ Alt. 2nd Floor</b>	B2b 2nd Flr. w/ Alt. 2nd Flr. Option	E2b 2nd Flr. w/ Alt. 2nd Flr. Option
	A3b Elevations w/ Alt. 2nd Floor w/ 3rd Car Gar. Opt.	B2c 2nd Flr. w/ Alt. 2nd Flr. w/ 3rd Bath Opt.	E2c 2nd Flr. w/ Alt. 2nd Flr. w/ 3rd Bath Opt.
	A4 Elevations w/ Covered Porch Opt.	<b>B3 Foundation Information Sheet</b>	
	<b>A-R1 Roof Plan</b>	B4 Guest Suite Option	
		B5 3rd Car Garage Option	

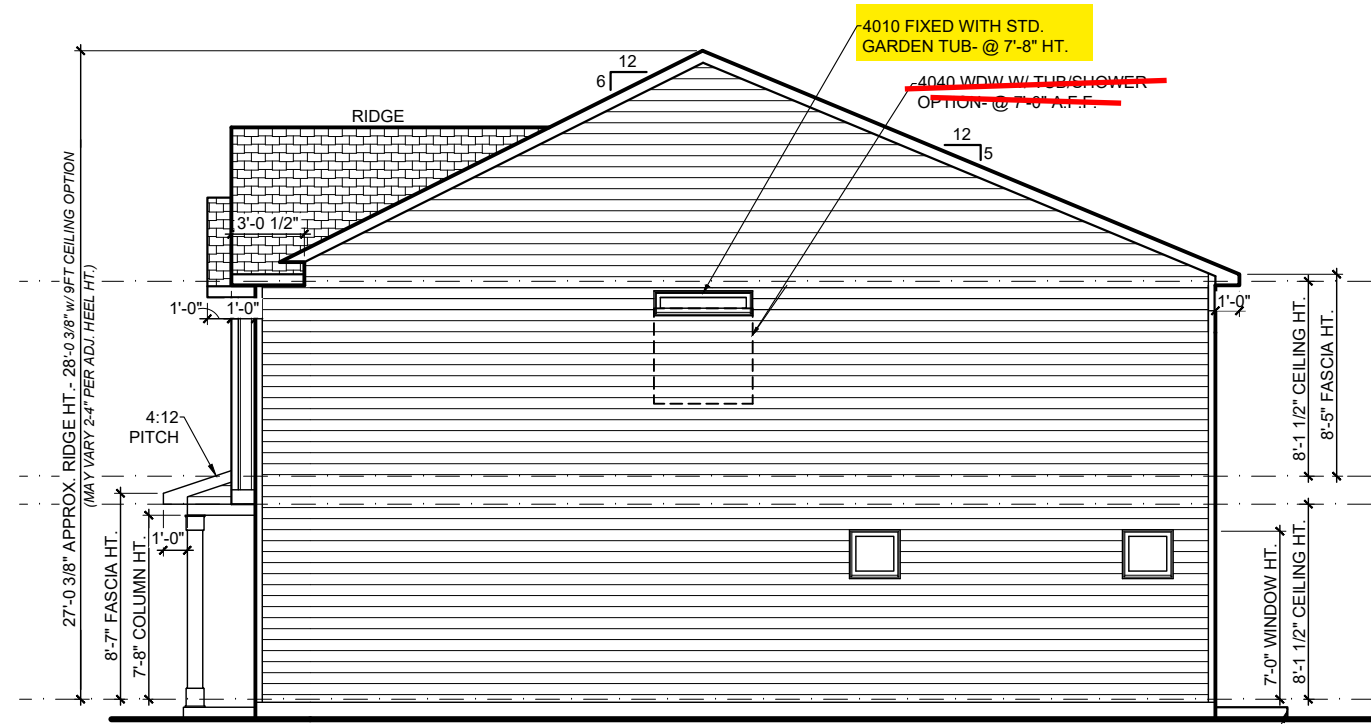
**9FT CEILING OPTION NOTES:**

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Garage.....	431
Front Porch.....	101
Covered Porch Option.....	120
3rd Car Garage Option.....	220



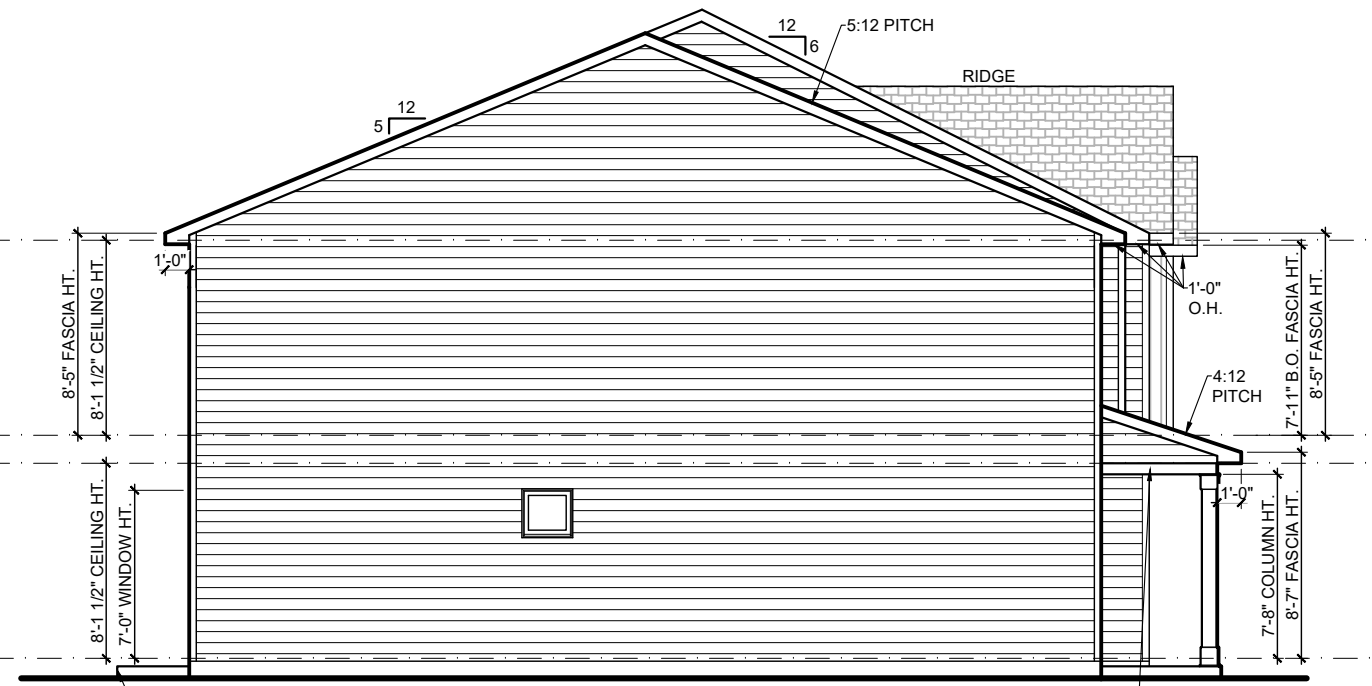
**RIGHT ELEVATION**

1/8" = 1'-0"



**REAR ELEVATION**

1/8" = 1'-0"



**LEFT ELEVATION**

1/8" = 1'-0"

**Russell C**

Genesis Series  
V.03.02.00.00

Features:

Drawn By: AM  
Rev By: CJA /AW EB  
Date: 9/6/2024

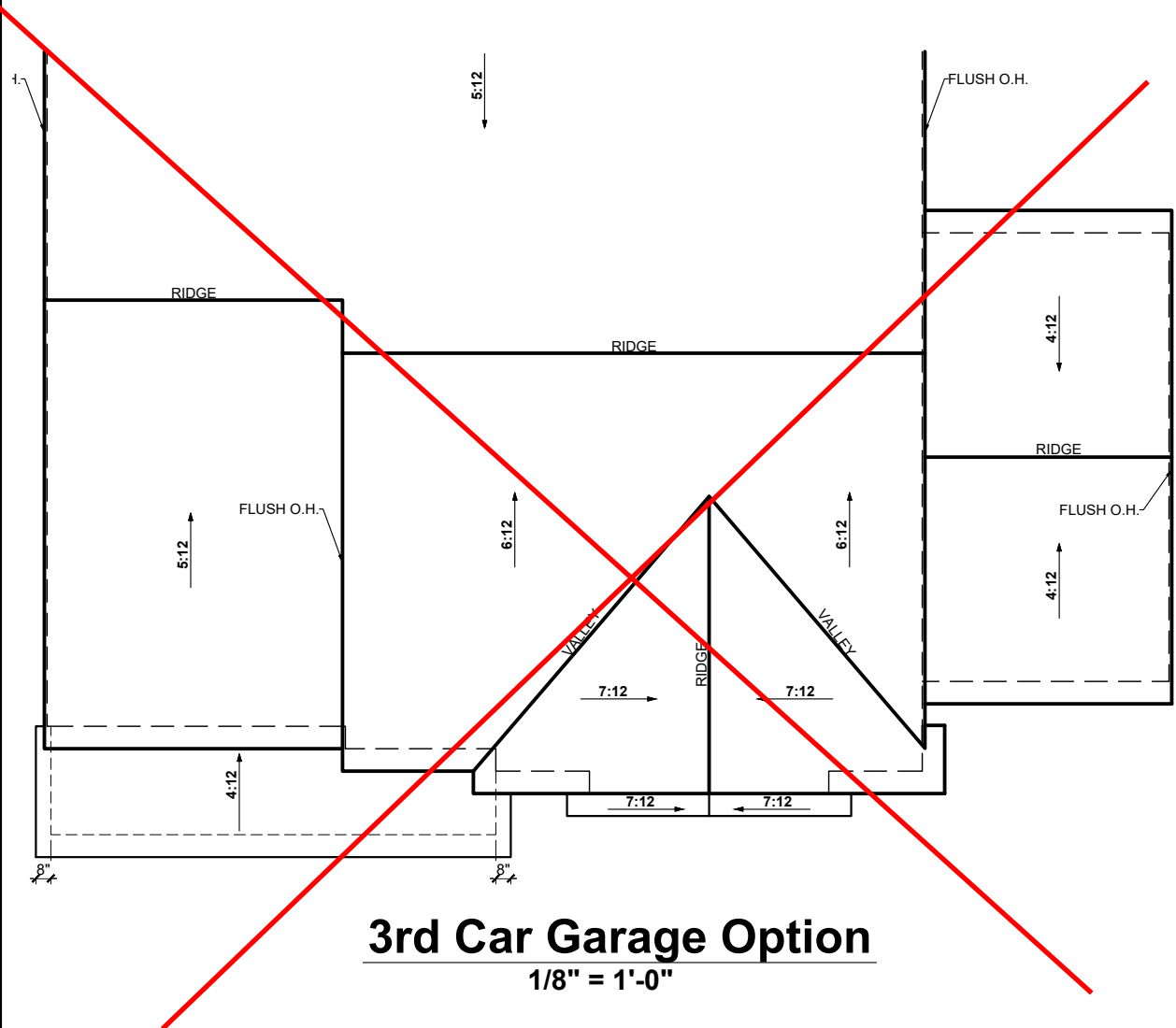
**A2**



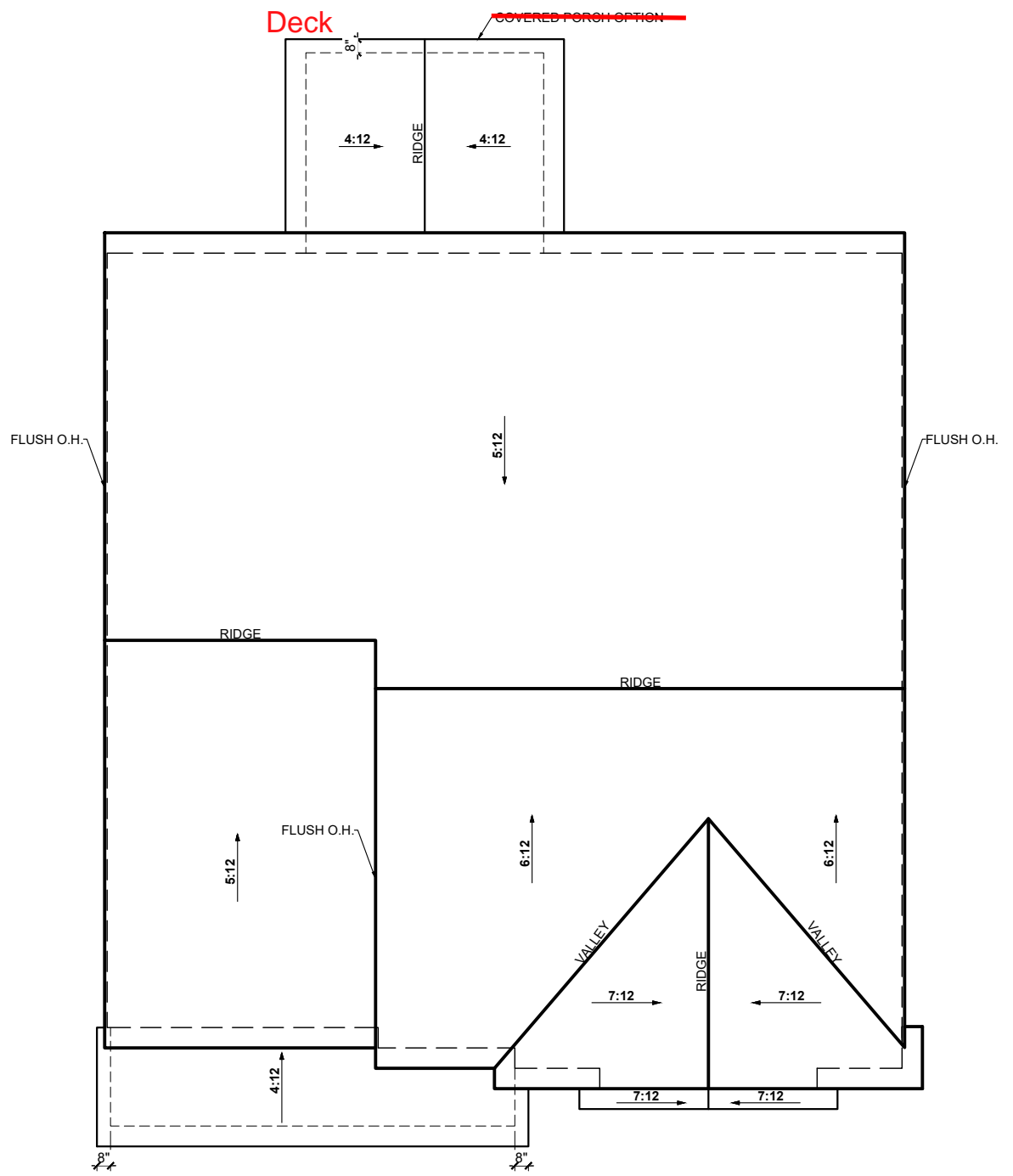
- NOTES:**
1. ALL OVERHANGS ARE 1'-0" U.N.O.
  2. ROOF PLANS **DO NOT** INCLUDE FULL BRICK OPTIONS.
  3. ROOF PLANS ARE NOT INTENDED FOR CONSTRUCTION USE. *(INFORMATIONAL USE ONLY)*
  4. BE SURE TO CHECK OVERHANG INFORMATION AT PLAN WHEN CALCULATING SOFFIT INTAKE

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**3rd Car Garage Option**  
1/8" = 1'-0"



**ROOF PLAN**  
1/8" = 1'-0"

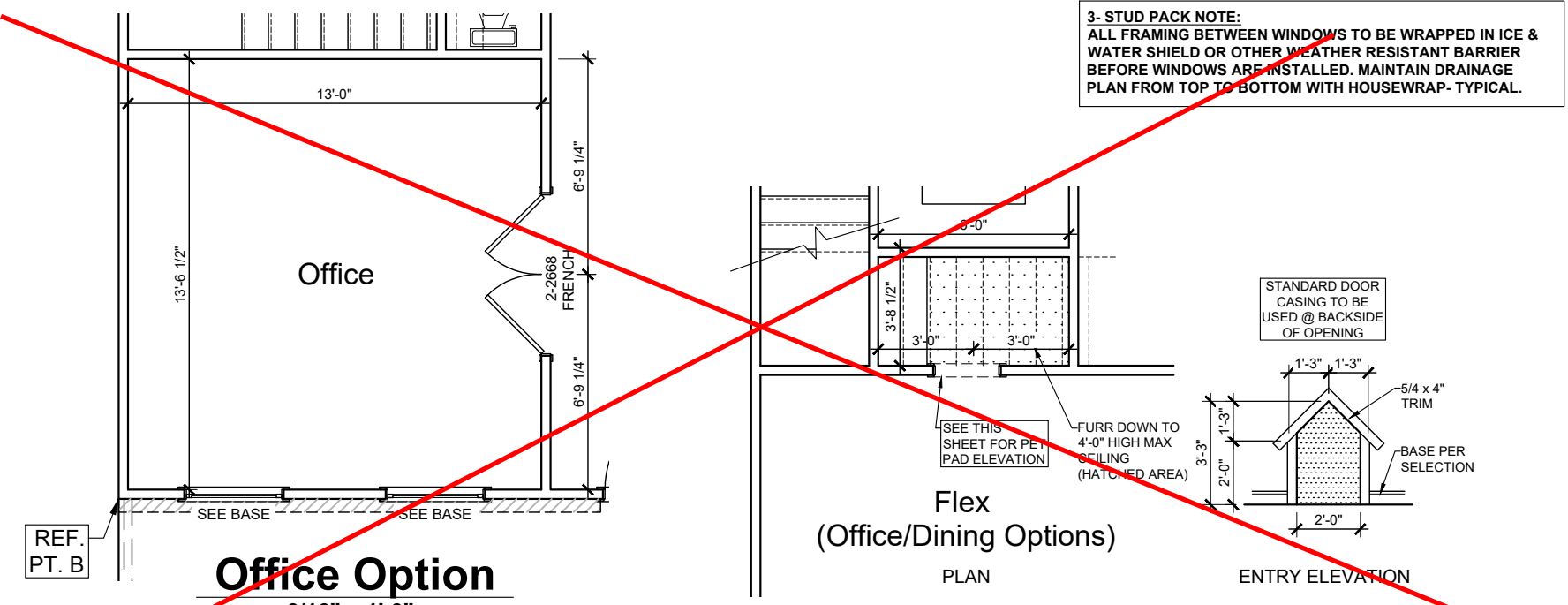
**ROOF INFORMATION SUMMARY**

<b>MAIN ROOF-</b>	
<b>Base House:</b>	
Attic Square Footage.....	1537 sf
Flat Soffit.....	61 lf
Ridge.....	48 lf
<b>AREA(S) NOT AFFECTING MAIN ROOF-</b>	
<b>Front Porch:</b>	
Attic Square Footage.....	89 sf
Flat Soffit.....	20 lf
Roof to Wall Ridge.....	18 lf
<b>Rear Covered Porch Option:</b>	
Attic Square Footage.....	115 sf
Flat Soffit.....	20 lf
Ridge.....	9 lf
<b>3rd Car Garage Option :</b>	
Attic Square Footage.....	220 sf
Flat Soffit.....	22 lf
Ridge.....	10 lf

**Russell C**  
Genesis Series  
V.03.02.00.00

Features:  
Drawn By: AM  
Rev By: CJA /AW /EB  
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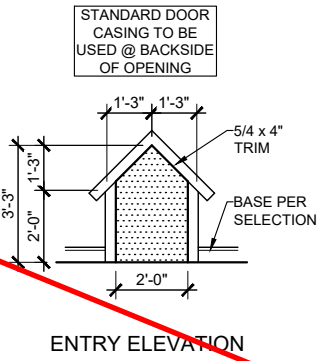
**A-R 1**



**3-STUD PACK NOTE:**  
 ALL FRAMING BETWEEN WINDOWS TO BE WRAPPED IN ICE & WATER SHIELD OR OTHER WEATHER RESISTANT BARRIER BEFORE WINDOWS ARE INSTALLED. MAINTAIN DRAINAGE PLAN FROM TOP TO BOTTOM WITH HOUSEWRAP- TYPICAL.

**Office Option**  
 3/16" = 1'-0"

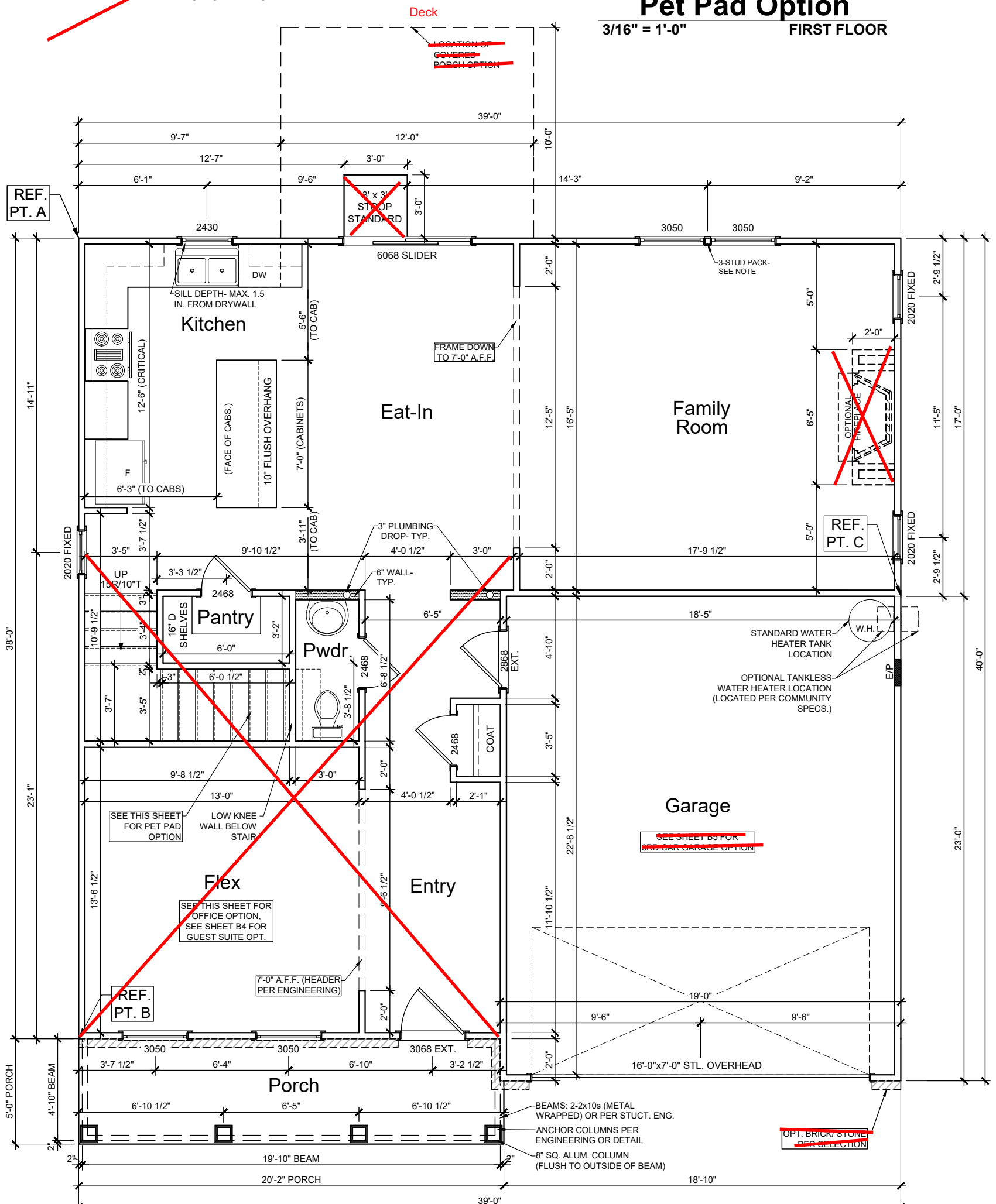
**Flex (Office/Dining Options)**  
 PLAN



**ENTRY ELEVATION**

**Pet Pad Option**  
 3/16" = 1'-0"

**FIRST FLOOR**



**FIRST FLOOR**  
 3/16" = 1'-0"

**NOTES:**  
 1. SEE ENGINEERING FOR FRAMING PLANS.  
 2. 8'-0" CEILING HEIGHTS @ 1ST FLOOR (9FT CLG. OPT.) U.N.O.  
 3. 8'-0" CEILING HEIGHTS @ 2ND FLOOR U.N.O.  
 4. WINDOW HEIGHTS VARY - FOLLOW ELEVATIONS CAREFULLY.  
 5. ALL ANGLES ARE 45° UNLESS NOTED OTHERWISE.

<b>B1</b>	Features:
	Drawn By: AM      Rev By: CJA AW EB
	Date: 9/6/2024

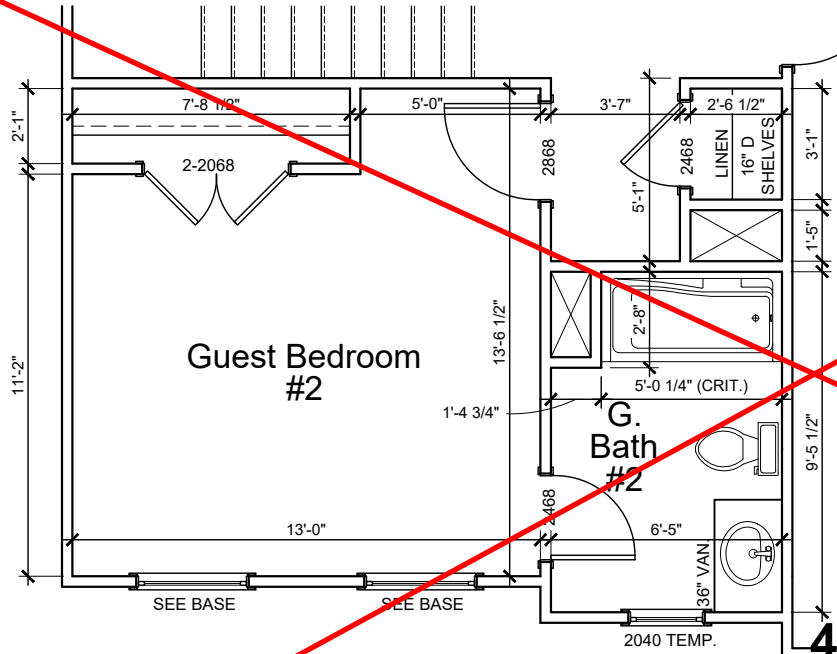
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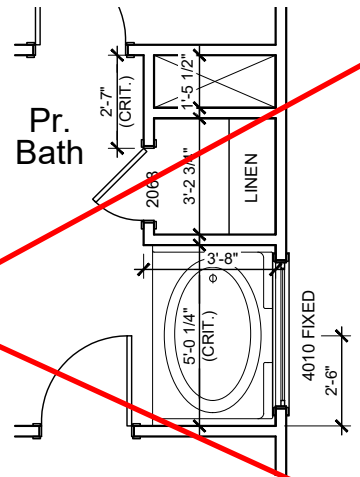


**3-STUD PACK NOTE:**  
ALL FRAMING BETWEEN WINDOWS TO BE WRAPPED IN ICE & WATER SHIELD OR OTHER WEATHER RESISTANT BARRIER BEFORE WINDOWS ARE INSTALLED. MAINTAIN DRAINAGE PLAN FROM TOP TO BOTTOM WITH HOUSEWRAP-TYPICAL.



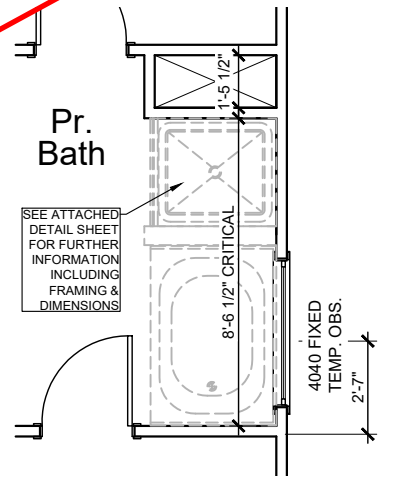
**Guest Suite #2 Option**

3/16" = 1'-0"  
(\*NOT AVAILABLE w/ ALT. 2ND FLOOR OPTIONS)



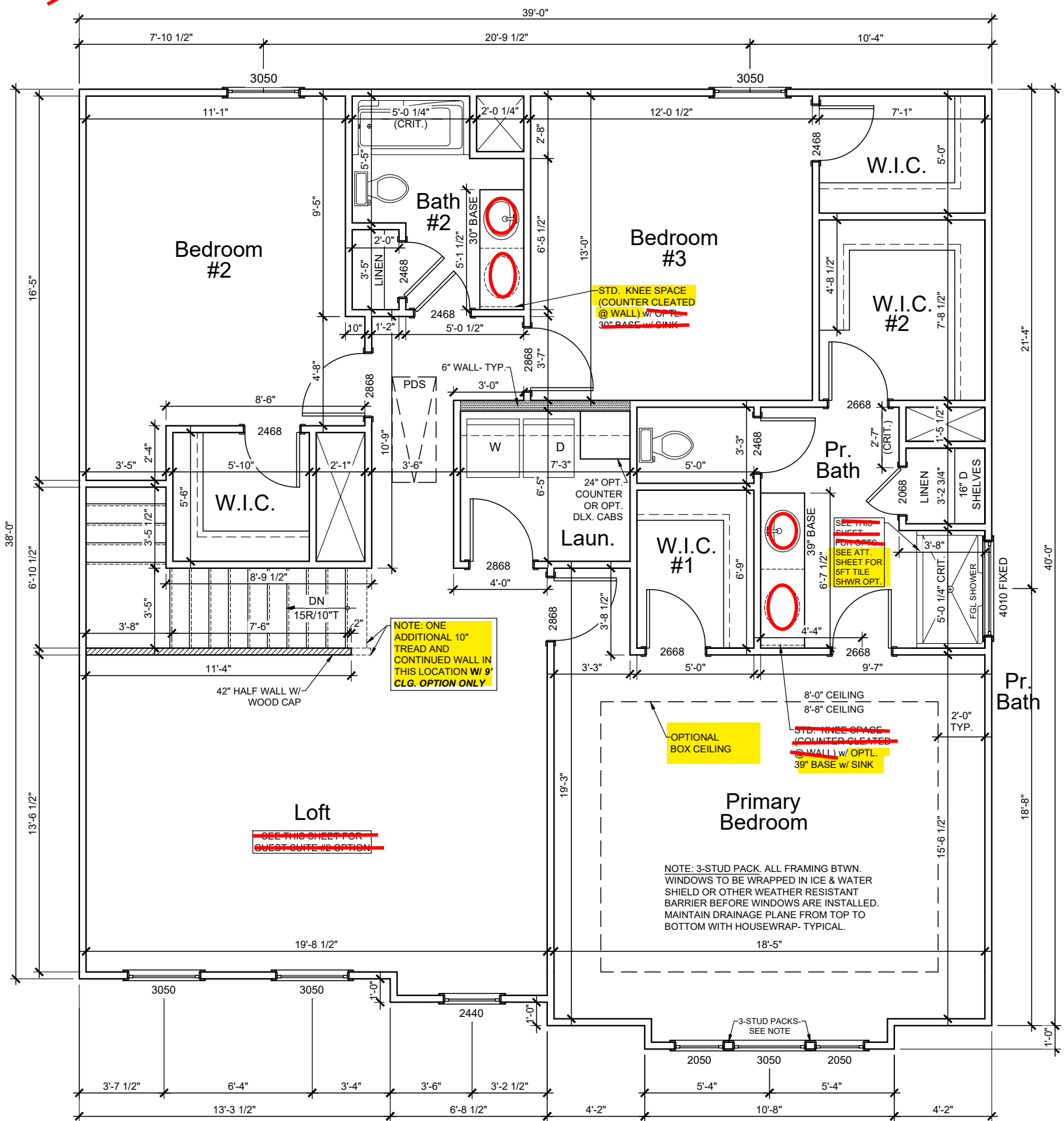
**42" Garden Tub w/ Shower Walls Opt.**

3/16" = 1'-0" @ PR. BATH



**Tub/ Shower Option**

FOR ORIENTATION PURPOSES ONLY @ PRIMARY BATH @ 2ND FLOOR



**SECOND FLOOR**

3/16" = 1'-0"

- NOTES:**
1. SEE ENGINEERING FOR FRAMING PLANS.
  2. 8'-0" CEILING HEIGHTS @ 1ST FLOOR (9FT CLG. OPT.) U.N.O.
  3. 8'-0" CEILING HEIGHTS @ 2ND FLOOR U.N.O.
  4. WINDOW HEIGHTS VARY - FOLLOW ELEVATIONS CAREFULLY.
  5. ALL ANGLES ARE 45° UNLESS NOTED OTHERWISE.

**B2**

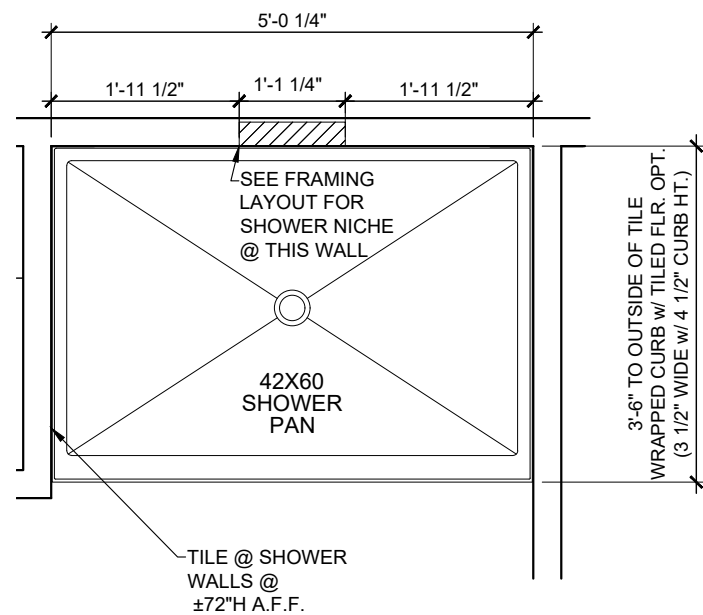
Features:  
Drawn By: AM Rev By: CJA AW EB  
Date: 9/6/2024

**Russell C**  
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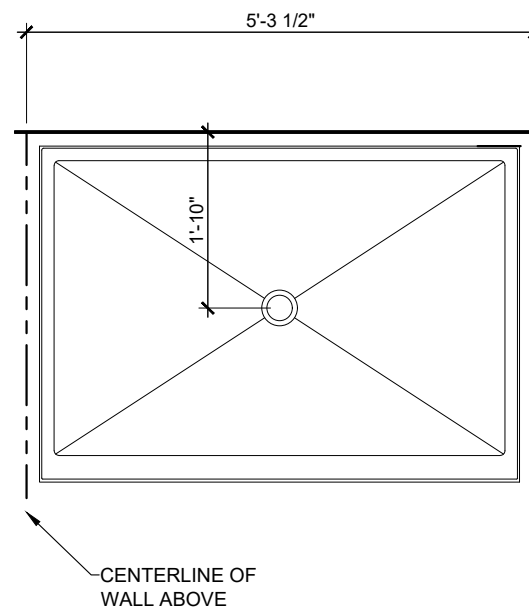
C Square Footages:





## FLOOR PLAN

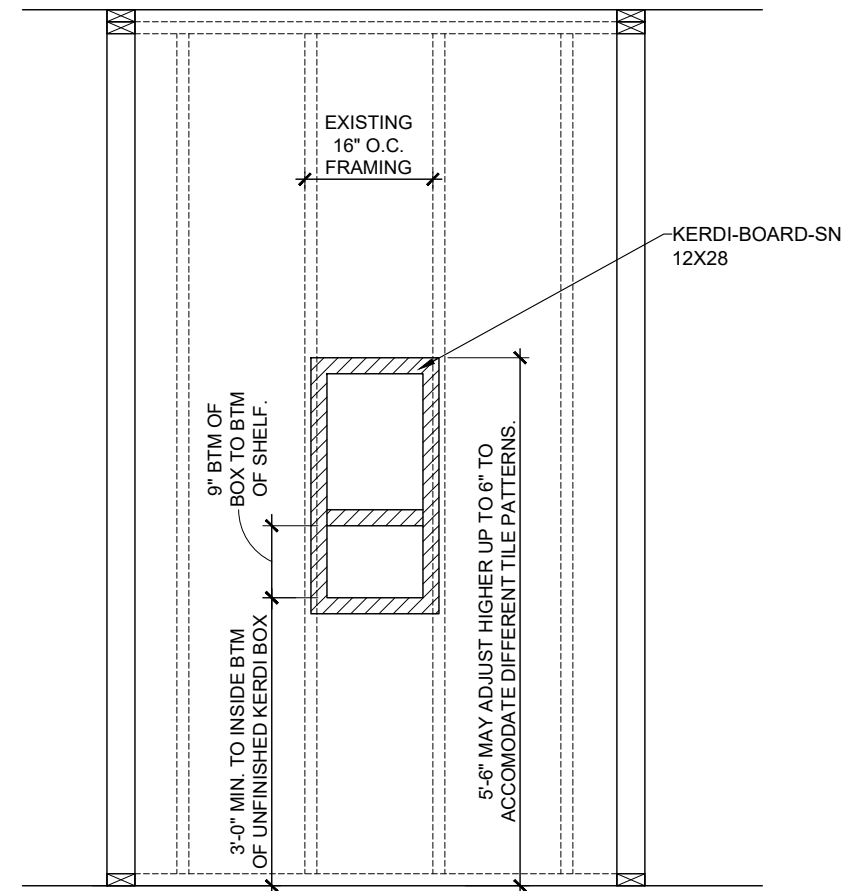
SCALE: 1/2" = 1'-0"



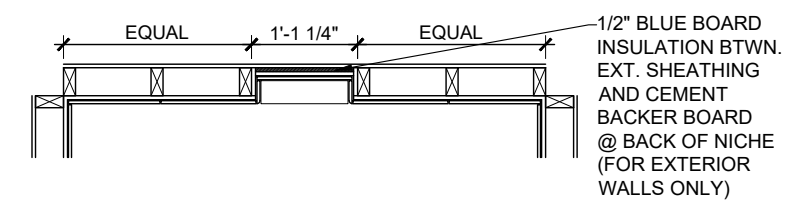
## FOUNDATION INFORMATION

SCALE: 1/2" = 1'-0"

NOTE: THIS DETAIL IS NOT PLAN SPECIFIC, BUT SHOULD MATCH THE SHOWER ORIENTATION ON EACH PLAN SET.



## ELEVATION VIEW



## PLAN VIEW

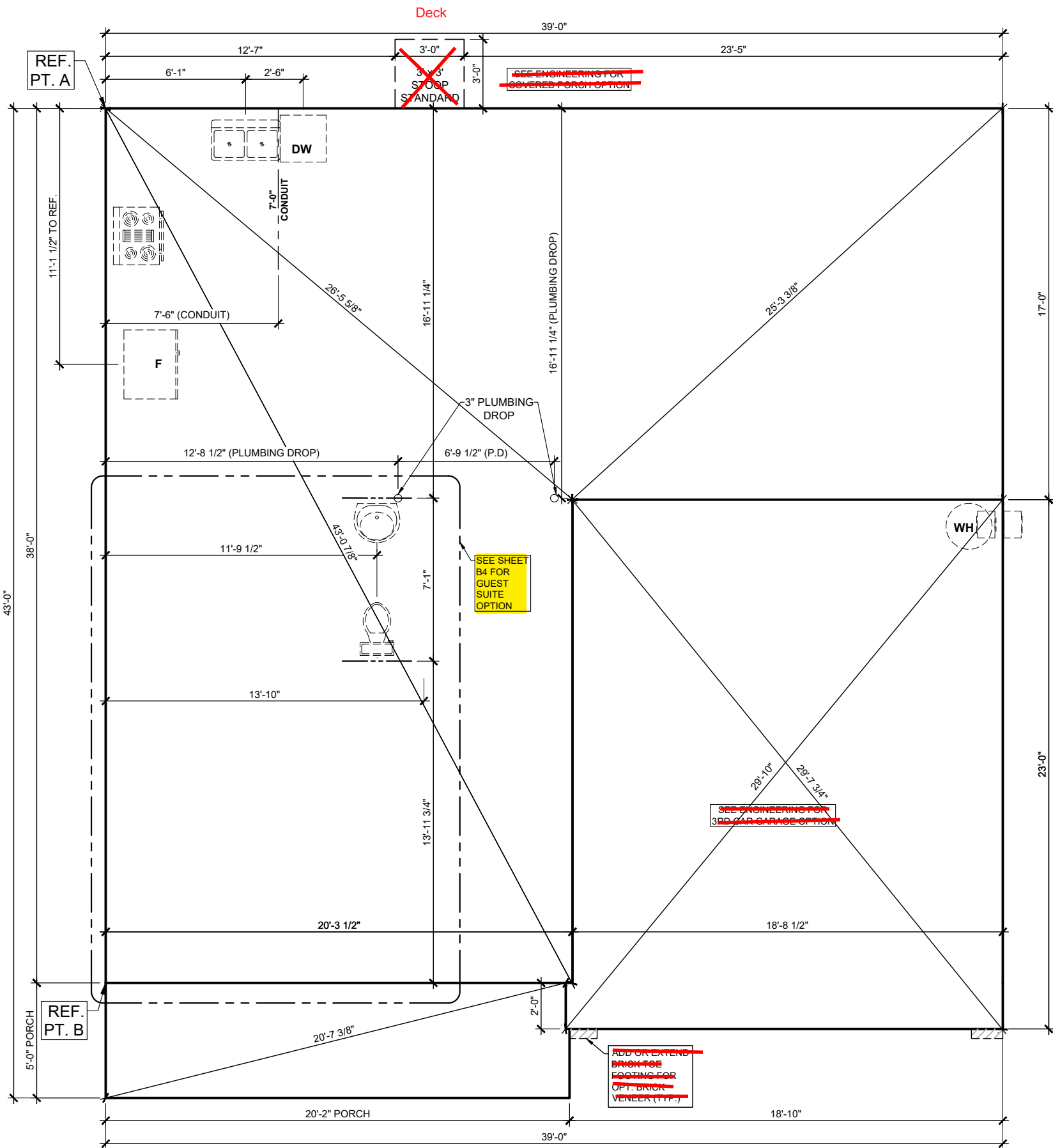
# KERDI SHOWER NICHE DETAIL

SCALE: 1/2" = 1'-0"

**PRIMARY BATH**  
**5' TILE SHOWER ONLY OPTION (42x60)**  
 SCALE: 1/2" = 1'-0"

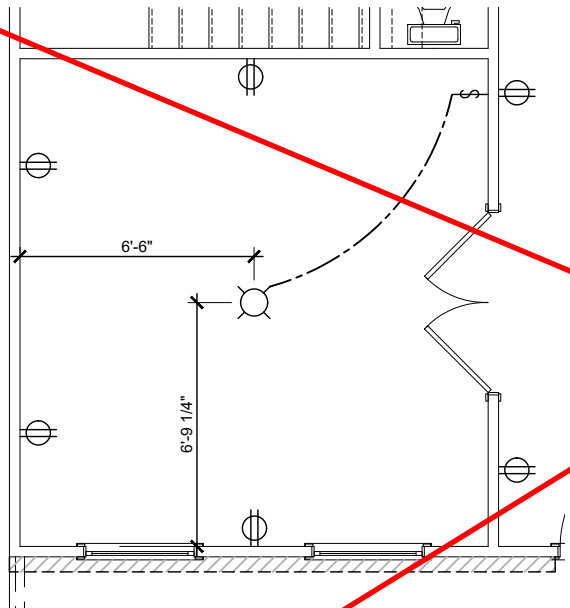
Drawn By: KBM  
 Date: 8/27/2024  
 Rev. By: AM

- NOTES:**
1. SEE ENGINEERING FOR STRUCTURAL INFORMATION
  2. CONTROL JOINTS
    - PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP.
    - JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-0" O.C. (MAXIMUM).
    - JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (1:1 RATIO), WITH A MAXIMUM OF 1:1.5 RATIO.
    - CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL SLABS.

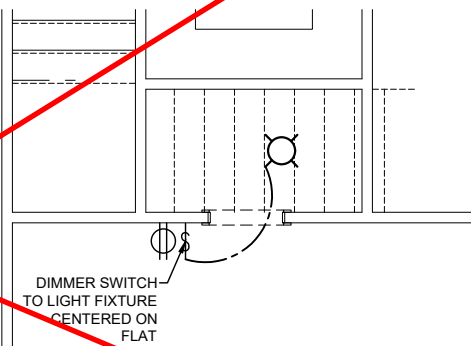


**FOUNDATION INFORMATION SHEET**  
3/16" = 1'-0"

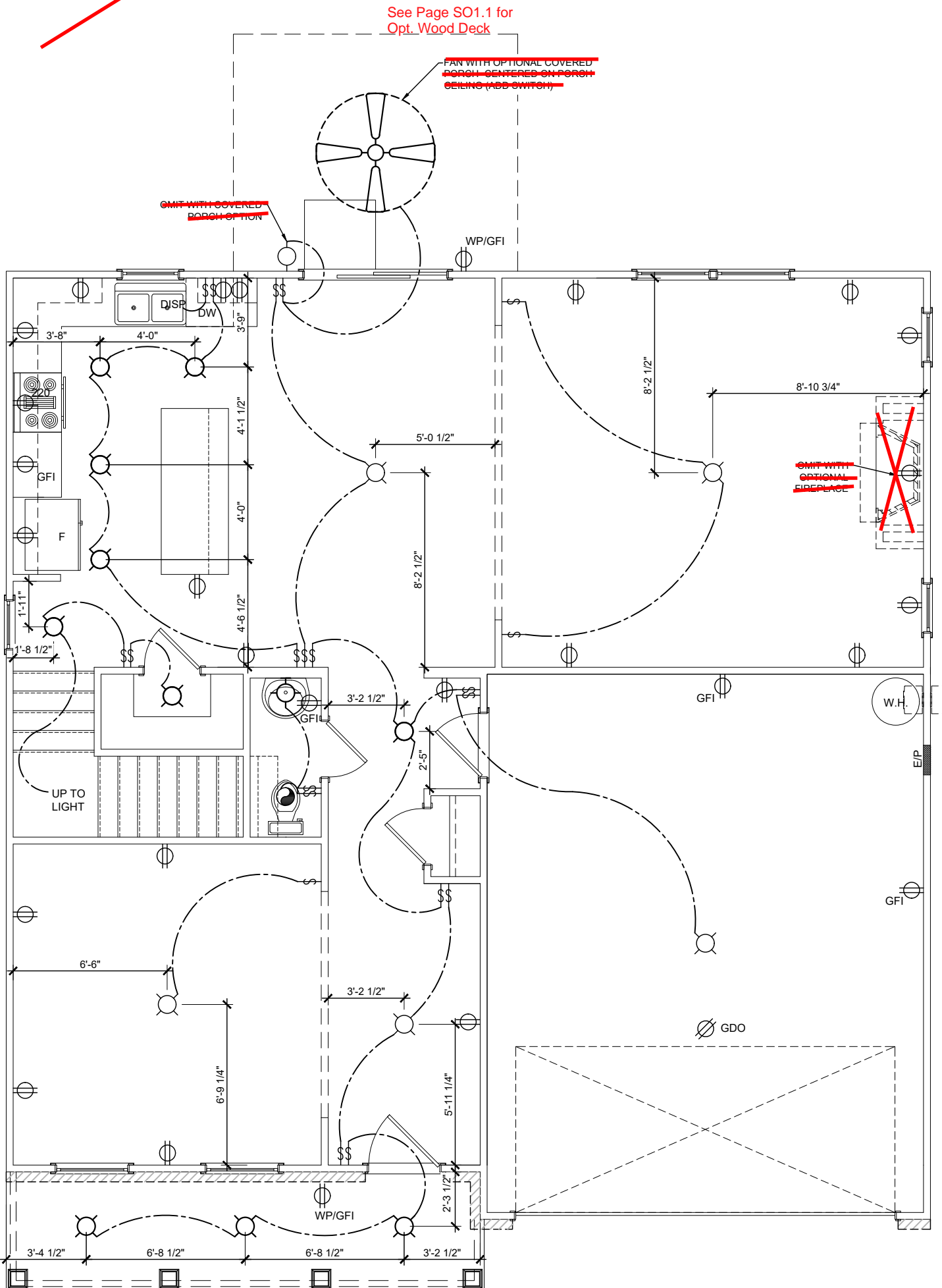
<b>B3</b>	Features: <b>FOUNDATION INFO. SHEET</b>	<b>Russell C</b> Genesis Series v.03.02.00.00	1st Floor.....1089	C Square Footages:	
	Drawn By: AM Rev By: CJA AW EB		2nd Floor.....1485		
	Date: 9/6/2024		Alternate 2nd Floor.....1489 Garage.....431 Front Porch.....101 Covered Porch Option.....120 3rd Car Garage Option.....220		



**Office Option**  
3/16" = 1'-0"



**Pet Pad Option**  
3/16" = 1'-0" FIRST FLOOR



**FIRST FLOOR - ELECTRICAL**  
3/16" = 1'-0"

<b>E1</b>	Features:	
	Drawn By: AM	Rev By: CJA AW EB
	Date: 9/6/2024	

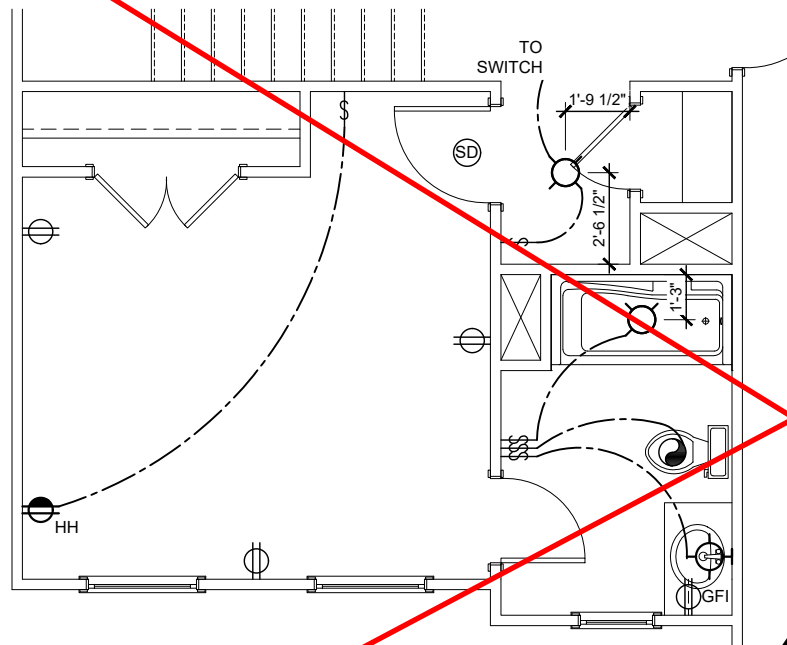
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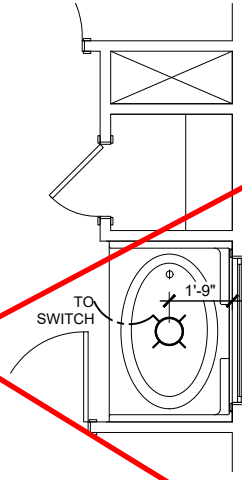






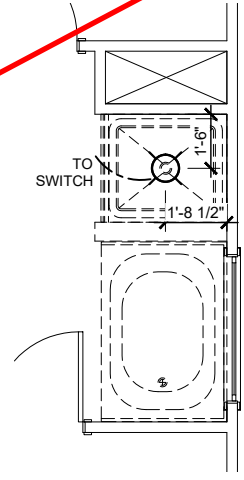
**Guest Suite #2 Option**

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 (\*NOT AVAILABLE w/ ALT. 2ND FLOOR OPTIONS)



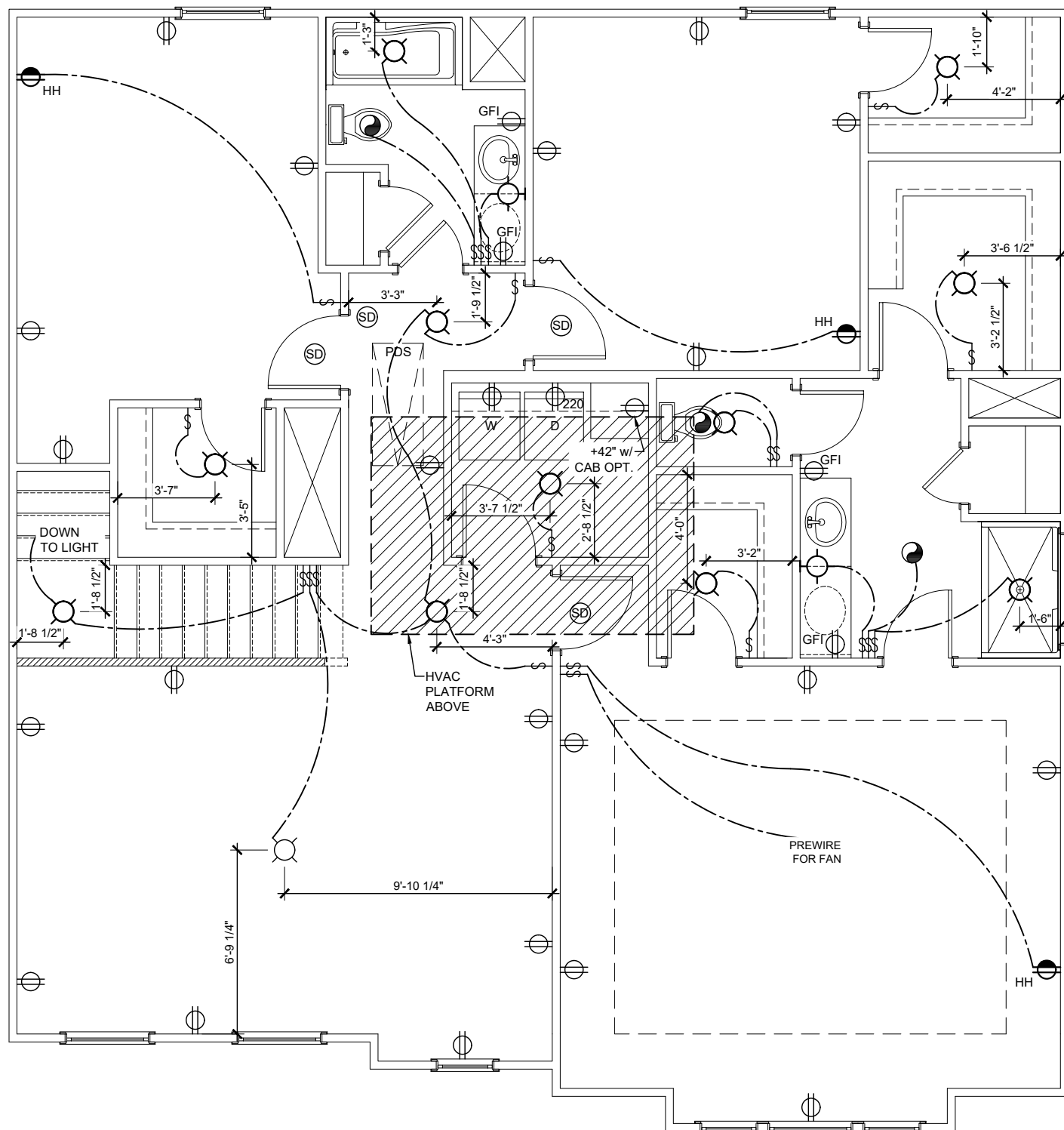
**42" Garden Tub w/  
 Shower Walls Opt.**

3/16" = 1'-0"



**Tub/ Shower  
 Option**

@ PR. BATH FOR ORIENTATION PURPOSES ONLY  
 @ PRIMARY BATH @ 2ND FLOOR



**SECOND FLOOR - ELECTRICAL**

3/16" = 1'-0"

**EN**

Features:

Drawn By: AM

Date: 9/6/2024

Rev By:  
 CJA AW EB

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C Square Footages:





MULHERN+KULP  
RESIDENTIAL STRUCTURAL ENGINEERING  
380 Riverside Ave., Building 4 - Asheville, NC 28801  
p: 716-568-6911 • m-k@mulhern-kulp.com



M&K project number:  
192-19039  
project mgr: SMK  
drawn by: NGG  
issue date: 12-20-19  
REVISIONS:  
date: initial:  
ARCH: v.01.00.00.00



GENERAL STRUCTURAL NOTES  
RUSSELL  
WIND SPEED < 115 MPH NORTH CAROLINA  
sheet.

### GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE RESIDENTIAL CODE.
- WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.
- MODEL IS CONSIDERED AS "FULLY ENCLOSED". OPENING PROTECTION PER BUILDER (MINIMUM STRUCTURAL PANELS PER CODE)
- DESIGN LOADS:  
ROOF: LIVE = 20 PSF, DEAD = 17 PSF, ATTIC = 20 PSF AT HT. > 42' LOAD DURATION FACTOR = 1.25  
FLOOR: LIVE = 40 PSF (30 PSF AT SLEEPING AREAS), DEAD = 15 PSF (10 PSF T.G., 5 PSF B.G.) (TRUSSES) = 10 PSF (1-JOISTS/5MIN) (ADD'L 10 PSF AT TILE)  
WIND: S115 MPH, EXPOSURE B  
SEISMIC: DESIGN CATEGORY A/B

### GENERAL FRAMING

- ALL TYP. NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE (IRC TABLE R602.3(1)) OR ON PLANS. ALL NAILS SPECIFIED ARE MIN DIAMETER AND LENGTH REQUIRED FOR CONNECTION. ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- EXT. & INT. BRG/SHEAR WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. SFP/SP STUD GRADE LUMBER, OR BETTER, UNO. WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL INTERIOR BEARING WALLS ARE ASSUMED TO BE SHEATHED W/ 5/8" GYP WALL BOARD (ONE SIDE MIN) OR PROVIDE MID HT. BLOCKING.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRUCE-PINE-FIR #2 (SFP) OR SOUTHERN PINE #2 (SP) LUMBER, OR BETTER. SUPPORT ALL HEADERS/ BEAMS W/ (1)2x JACK STUD & (1)2x KING STUD, MINIMUM.  
- THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, UNO..
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x STUD GRADE MEMBERS SPACED @ 16" O.C. (MAX, UNO.)  
• SEE "NON-BEARING HEADER SCHEDULE" HEADER SIZES IN NON-LOAD BEARING WALLS
- ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).
- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING:  
• 'LVL' - Fb=2600 psi, Fv=285 psi, E=2.0x10<sup>6</sup> psi  
• ENGINEERED LUMBER POSTS TO MEET OR EXCEED THE FOLLOWING:  
• 'LVL' - Fb=2400 psi, Fc11=2500 psi, E=1.8x10<sup>6</sup> psi
- FOR 2 & 3 PLY BEAMS OF EQUAL 1 3/4" MAX. WIDTH, FASTEN PLYS TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 8" O.C. OR 2 ROWS 1/4"x3/8" SIMPSON SDS SCREWS (OR 3/8" TRUSLOK SCREWS) @ 16" O.C. ALT. FASTENING SPEC. FOR 3 PLY BEAMS ONLY; FASTEN PLYS TOGETHER WITH 2 ROWS OF 1/2" DIA. THRU BOLTS @ 16" O.C. USE A MINIMUM OF 4 ROWS (NAILS/SCREWS) OR 3 ROWS (BOLTS) FOR BEAM DEPTHS OF 14" OR GREATER. APPLY NAIL/SCREEN FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM FASTENERS 2" FROM EDGE. SOLID 3 1/2" OR 5 1/4" BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 & 2x8 MEMBERS.
- FOR 4 PLY BEAMS OF EQUAL 1 3/4" MAX. WIDTH, FASTEN PLYS TOGETHER WITH 3 ROWS OF 1/4"x6" SIMPSON SDS SCREWS (OR 6 3/4" TRUSLOK SCREWS) @ 16" O.C. OR 2 ROWS OF 1/2" DIA. THRU BOLTS @ 16" O.C. USE A MINIMUM OF 4 ROWS (SCREWS) OR 3 ROWS (BOLTS) FOR BEAM DEPTHS OF 14" OR GREATER. APPLY SCREW FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSLOK SCREWS). LOCATE TOP AND BOTTOM FASTENERS 2" FROM EDGE. A SOLID 7" BEAM IS ACCEPTABLE.
- REFER TO IRC FASTENING SCHEDULE TABLE R602.3(1) FOR ALL CONNECTIONS, TYP. UNO.
- FASTEN ALL METAL CONNECTORS (I.E. HANGERS, CLIPS, ETC.) PER MANUFACTURER'S SPECIFICATIONS FOR MAXIMUM TABLE LOAD VALUE UNO.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND/BEARING. BLOCKING TO MATCH POST ABOVE.
- CORROSION NOTES:  
• BUILDER RESPONSIBLE TO DETERMINE CORROSION-RESISTANCE REQUIREMENTS AND COMPATIBILITY OF HARDWARE, FASTENERS AND CONNECTORS FOR ENVIRONMENTAL EXPOSURE AND IN CONTACT W/ PRESERVATIVE-TREATED WOOD OF ACTUAL FINAL CONDITIONS AND SOURCED MATERIALS. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- BASEMENT INTERIOR BEARING WALLS & EXTERIOR WALK-OUT BASEMENT WALLS SHALL BE 2x6 @ 16" O.C. SFP OR 5/8" STUD GRADE OR BETTER.
- M&K SHALL NOT BE RESPONSIBLE FOR ANY ISSUES RESULTING FROM OR RELATED TO ANY DELEGATED ENGINEERED COMPONENTS IF THE OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO M&K FOR A CONFORMANCE REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.

M&K - MAY 2017

### GENERAL STRUCTURAL NOTES

#### FLOOR FRAMING

- TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES STONE/MARBLE OR MET BED CONSTRUCTED FLOORS - CONTACT MK FOR EXCLUDED FLOOR DESIGNS)
- PER THE GUIDELINES OF THE TILE COUNCIL OF NORTH AMERICA (TCNA HANDBOOK), IT SHALL BE THE FLOOR FINISH INSTALLER'S RESPONSIBILITY TO VERIFY THAT THE FINISHES TO BE INSTALLED MATCH THE DESIGN CRITERIA NOTED ABOVE (UNDER 'DESIGN LOADS').
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, UNO.
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED STURD-I-FLOOR® 24" O.C., EXPOSURE 1 (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W/ GLUE AND:  
- 2 1/2" x 0.131" NAILS @ 6" O.C. @ PANEL EDGES @ 12" O.C. FIELD.  
- 2 3/8" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES @ 6" O.C. FIELD.  
- 2 3/8" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES @ 6" O.C. IN FIELD.
- PROVIDE 1/4" RIM BOARD @ ALL DECK LEDGER LOCATIONS. SEE PLANS OR DETAILS FOR LEDGER CONNECTION.

#### ROOF FRAMING

- ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE 1 (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS - W/ 2 1/2" x 0.131" NAILS @ 6" O.C. @ PANEL EDGES @ 6" O.C. FIELD. - W/ 2 3/8" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES @ 6" O.C. FIELD. - W/ 2 3/8" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES @ 6" O.C. FIELD.
- WITHIN 48" OF ALL ROOF EDGES, RIDGES, & HIPS FASTEN ROOF SHEATHING FIELDS PER EDGE NAILING SPEC.
- FASTEN EACH ROOF TRUSS TO TOP PLATE W/ SIMPSON H25A HURRICANE CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. CLIPS MUST BE INSTALLED ON EXTERIOR FACE OF EXTERIOR WALLS OR THE SAME SIDE AS THE SHEAR WALL SHEATHING.
- ALL ROOF GIRDER TRUSSES AND FLUSH BEAMS WITHIN THE ROOF SYSTEM SHALL BE FASTENED TO THE DOUBLE TOP PLATES AND POST SUPPORT W/ (2) SIMPSON H25A CLIPS OR APPR. EQUAL (TYP. UNO. ON PLANS)
- TRUSS ALL VALLEY SETS. FASTEN TO TRUSS BELOW W/ SIMPSON H25A TIES AT EACH END AND AT EACH TRUSS BETWEEN.
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, UNO.
- ERECT AND INSTALL ROOF TRUSSES PER WTC A & TP'S BCS1 | GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES.\*
- SUPPORT SHORT SPAN ROOF TRUSSES W/ 2x4 LEDGER FASTENED TO FRAMING W/ (2) 3" x 0.120" NAILS @ 16" O.C. (UP TO 7' SPAN).

M&K - MAY 2017

### EXTERIOR & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:  
115 MPH WIND IN 2018 NCSEB:RC  
(115 MPH WIND SPEED IN ASCE 7-10 WIND MAP, PER NCSEB R301.2.1.1) EXP. B & SEISMIC CAT. A/B.

THE ENGINEERED DESIGN WAS COMPLETED PER 2015 IBC (SECTION 1609) & ASCE 7-10, AS PERMITTED BY R301.1.3 OF THE 2018 NCSEB.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSEB:RC SECTION R802.II.1.1. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5 & R802.II.

#### EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD:  
FASTEN SHEATHING W/ 2 3/8" x 0.113 NAILS @ 6" O.C. AT EDGES @ 12" O.C. IN THE PANEL FIELD. (TYP. UNO.)
- ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUDS) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE FASTENING.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.

#### 3" O.C. EDGE NAILING

- AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING W/ 2 3/8" x 0.113" NAILS @ 3" O.C. NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUDS) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR - 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING.

### NOTES

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING. IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
- REFER TO DETAIL SHEET.
- "NUMBERED" DETAILS ARE REFERENCED ON PLAN.
- DESIGN ASSUMES 16" O.C. MAX. STUD SPACING, UNO.
- DESIGN ASSUMES ALL INTERIOR SHEAR WALLS AND EXTERIOR WALLS ARE CONTINUOUS SHEATHED ABOVE AND BELOW OPENINGS.
- WHERE PANELS ARE APPLIED TO BOTH FACES OF WALL, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING.
- PRE-MANUFACTURED PANELIZED WALLS:  
FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD AS FOLLOWS:  
P1 SHEAR PANELS - 3" x 0.120" NAILS @ 6" O.C.  
P3 SHEAR PANELS - 3" x 0.120" NAILS @ 4" O.C.
- INDICATES LOCATION AND EXTENT OF SHEARWALL WHICH REQUIRES SHEATHING AND/OR FASTENING SPECIFICATIONS BEYOND THAT OF STANDARD CONSTRUCTION

M&K - MAY 2017

### GENERAL STRUCTURAL NOTES

#### FOUNDATION

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE RESIDENTIAL CODE.
- FOOTING DESIGN - 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.
- FASTEN 2x4/6 SILL PLATES TO CONC. FND WITH A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAX. FROM PLATE ENDS - UTILIZING:  
• 1/2" DIA. ANCHOR BOLTS @ 6'-0" O.C. W/ 7" MIN. EMBEDMENT OR SIMPSON MASA ANCHORS @ 6'-0" O.C.
- SIMPSON STRONG-BOLT 2 WEDGE ANCHOR (STB2-50700 - 1/2" @ x 7") MAY BE USED IN PLACE OF ANCHOR BOLTS @ INTERIOR THICKENED SLABS ONLY.
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ PERIMETER FOUNDATION SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- FOUNDATION WALLS & FOOTINGS SHALL BE PLAIN CONCRETE, UNO.
- CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, UNO.:  
F<sub>c</sub> = FOUNDATION WALLS (SEE FOUNDATION DETAILS) 2,500 psi. .... FOOTINGS & INTERIOR SLABS ON GRADE 3,000 psi. .... GARAGE & EXTERIOR SLABS ON GRADE f<sub>y</sub> = 60,000 psi
- TYPICAL REINFORCEMENT DETAILS: PROVIDE 3" MIN. CLEAR COVER WHERE CAST AGAINST EARTH, 1 1/2" MIN. CLEAR COVER AGAINST FORMS. LAP ALL REBAR 48 BAR DIAMETERS MIN. (24" FOR #4 BARS) & BEND BARS AND LAP AT CORNERS. PROVIDE 6" HOOK INTO SUPPORTING FOOTINGS WHEN FOOTINGS INTERSECT.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 1% AIR ENTRAINMENT.
- ALL FOOTINGS SHALL BEAR BELOW FROST LINE (TYP.) OR 12" MIN IN REGIONS WHERE CODE FROST DEPTH IS NOT APPLICABLE. CONSULT SOILS REPORT OR BUILDING DEPT. FOR MINIMUM DEPTH BELOW GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 45% COMPACTED FILL. (UNO.)
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP.  
• JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-0" O.C. (MAXIMUM)  
• JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (1:1 RATIO), WITH A MAXIMUM OF 1:1.5 RATIO  
• CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL SLABS
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY.
- BUILDER TO PROVIDE SUBTERRANEAN TERMITE PROTECTION MEETING THE REQUIREMENTS OF R310 OR LOCAL CODE REQUIREMENTS
- CRAWLSPACE/BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY EITHER ADEQUATE TEMPORARY BRACING OR INSTALLATION OF FIRST FLOOR DECK.
- CRAWLSPACE/BASEMENT WALL DESIGN IS BASED ON BACKFILL SOIL CLASSIFICATIONS OF GM, GP, SM, SP (30 PCF) OR GM, GC, SM, SM-SC, ML (45 PCF). IF SC, ML-CL, OR CL (60 PCF) SOIL IS ENCOUNTERED ON SITE, CONTACT MULHERN & KULP FOR FURTHER EVALUATION OF FOUNDATION DESIGN.
- CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 WITH A MIN. COMPRESSIVE STRENGTH OF 1900 psi (F<sub>m</sub>=1500 psi). MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER TMS 402/602.
- CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORCEMENT (OR EQUAL) - 1 GA. MINIMUM @ 16" O.C.
- PROVIDE 2x8 x 16" LONG P.T. PLATE ON TOP OF ALL CRAWL SPACE PIERS. TOP COURSE OF PIERS SHALL BE SOLID MASONRY OR FILLED SOLID.
- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRAWL SPACE WALLS, FASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE.
- BASEMENT FOUNDATION WALL DESIGN BASED ON:  
• 4' OR 10' HEIGHT (SEE PLAN)  
• ACTUAL WALL WIDTHS ASSUMED FOR DESIGN, NOMINAL WIDTHS SHALL NOT BE USED.
- PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN CONCRETE BSMT. FND. WALL WITH 2" CLEAR. REINFORCEMENT SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS.  
• FOR OPENINGS UP TO 36", PROVIDE MINIMUM 10" CONCRETE DEPTH OVER OPENING OR (3)2x10 W/ (2)2x6 JACK STUDS, UNO.  
• LARGER OPENINGS SHALL BE PER PLAN.

M&K - MAY 2017

### GENERAL STRUCTURAL NOTES

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- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRAWL SPACE WALLS, FASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE.
- BASEMENT FOUNDATION WALL DESIGN BASED ON:  
• 4' OR 10' HEIGHT (SEE PLAN)  
• ACTUAL WALL WIDTHS ASSUMED FOR DESIGN, NOMINAL WIDTHS SHALL NOT BE USED.
- PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN CONCRETE BSMT. FND. WALL WITH 2" CLEAR. REINFORCEMENT SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS.  
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• LARGER OPENINGS SHALL BE PER PLAN.

M&K - MAY 2017

### CONNECTION SPECIFICATIONS (TYP. U.N.O.)

DESCRIPTION OF BLDG. ELEMENT	3"x0.131" NAILS	3"x0.120" NAILS
JOIST TO SOLE PLATE	(3) TOENAILS NAILS @ 6" o.c.	(3) TOENAILS* NAILS @ 4" o.c.
SOLE PL. TO JOIST/RIM OR BLK'S STUD TO PLATE	(4) TOENAILS/3 END NAILS	(4) TOENAILS/ (4) END NAILS*
RIM TO TOP PLATE	TOENAILS @ 6" o.c.	TOENAILS @ 4" o.c.*
BLK'G. BTWN. JOISTS TO TOP PL.	(3) TOENAILS EA. END	(3) TOENAILS EA. END*
DOUBLE STUD	NAILS @ 16" o.c.	NAILS @ 16" o.c.
DOUBLE TOP PLATE	NAILS @ 12" o.c.	NAILS @ 8" o.c.
DOUBLE TOP PLATE LAP SPLICE (24" MIN)	(12) NAILS IN LAPPED AREA	(15) NAILS IN LAPPED AREA (24" MIN)
TOP PLATE LAP @ CORNERS & INTERSECTING WALLS	(3) NAILS	(3) NAILS
ADJACENT FULL-HEIGHT STUD TO END OF HEADER	(4) NAILS	(4) NAILS
RAFTER/TRUSS TO TOP PLATE	(4) TOENAILS + (1) SIMPSON H25T	(4) TOENAILS + (1) SIMPSON H25T
GAB. END TRUSS TO DBL. TOP PL.	TOENAILS @ 8" o.c.	TOENAILS @ 6" o.c.
R.T. w/ HEEL HT. 4 1/2" TO 12"	2x10 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W/ TOENAILS @ 6" O.C.	2x10 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W/ TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. 12" TO 16"	2x12 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W/ TOENAILS @ 6" O.C.	2x12 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W/ TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. UP TO 24"	LAP WALL SHGT. W/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN W/ NAILS @ 6" O.C.	LAP WALL SHGT. W/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN W/ NAILS @ 6" O.C.*
R.T. w/ HEEL HT. 24" TO 48"	LAP WALL SHGT. W/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN W/ NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL	LAP WALL SHGT. W/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN W/ NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL*
WALL TO FOUNDATION	WALL SHGT. LAP W/ SILL PL. & FASTENED PER SHEAR WALL FASTENING SPEC.	

\* 3/8"x0.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS. (ONLY ACCEPTABLE WHERE \* ARE SHOWN)

### VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE
3'-0"	20 FT. MAX	L3"x3"x1/2"
6'-0"	3 FT. MAX	L3"x3"x1/2"
	12 FT. MAX	L4"x3"x1/2"
8'-0"	20 FT. MAX	L5"x3 1/2"x3/8"
	3 FT. MAX	L4"x4"x1/2" *
	12 FT. MAX	L5"x3 1/2"x3/8"
9'-6"	16 FT. MAX	L6"x3 1/2"x3/8"
	12 FT. MAX	L6"x3 1/2"x3/8"
16'-0"	2 FT. MAX	L7"x4"x1/2" **
	3 FT. MAX	L8"x4"x1/2" **

### NON-BEARING HEADER SCHEDULE

SPAN	2x4 NON-BEARING PARTITION WALL	2x6 NON-BEARING PARTITION WALL
UP TO 3'-0"	(1)2x4 FLAT	(1)2x6 FLAT
UP TO 6'-0"	(2)2x4	(3)2x4
UP TO 8'-0"	(2)2x6	(3)2x6
UP TO 12'-0"	(2)2x10	(2)2x10

### LEGEND

- Interior BEARING WALL
- BEARING WALL ABOVE (B.M.A) -AND/OR-SHEAR WALL ABOVE (S.M.A)
- BEAM / HEADER
- EXTENT OF OVERFRAMING (O.F.)
- EXTENT OF TILE OVER FLOOR
- EXTENT OF BRACING PANELS/SHEARWALL W/ ADD'L CONNECTION REQUIREMENTS
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.
- METAL HANGER
- INDICATES POST ABOVE (P.A) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

#### ALL LINTELS:

- SHALL SUPPORT 2 1/2" - 3 1/2" VENEER W/ 40 psf MAXIMUM WEIGHT.
- < 16" SHALL HAVE 4" MIN. BEARING
- > 16" SHALL HAVE 8" MIN. BEARING
- > 16" SHALL NOT BE FASTENED BACK TO HEADER.
- > 16" SHALL BE FASTENED BACK TO MOOD HEADER IN WALL @ 48" o.c. W/ 1/2" DIA. x 3 1/2" LONG LAG SCREWS IN 2" LONG VERTICALLY SLOTTED HOLES.
- MAX VENEER HT. APPLIES TO ANY PORTION OF BRICK OVER THE OPENING.
- ALL LINTELS SHALL BE LONG LEG VERTICAL.
- WHEN SUPPORTING VENEER < 3" WIDE THE EXTERIOR TOE OF THE HORIZONTAL LEG MAY BE CUT IN THE FIELD TO BE 3 1/2" WIDE OVER THE BEARING LENGTH ONLY. THIS IS TO ALLOW FOR MORTAR JOINT FINISHING.
- SEE STRUCTURAL PLANS FOR ANY LINTEL CONDITION NOT ENCOMPASSED BY THE ABOVE PARAMETERS. FOR ANY LINTEL FASTENED BACK TO BEAM, FASTENERS SHALL MAINTAIN A 2 1/2" (MINIMUM) CLEAR DISTANCE FROM BOT. OF BEAM.
- \* FOR QUEEN VENEER USE L4x3 1/2".
- \*\* FOR 3/2" VENEER ONLY. SEE PLAN FOR VENEER SUPPORT IF VENEER < 3/2" THICK.

M&K STD. - MAY 2016

### MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUY'S, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT.

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING ELEMENTS IN CONTACT WITH FLOOR FRAMING ARE LEVEL, INCLUDING, BUT NOT LIMITED TO; FOUNDATIONS, SLABS ON GRADE, BEAMS, WALLS, AND NON-BEARING ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY BE WITHIN CONTRACTUAL, INDUSTRY, OR WARRANTY TOLERANCES.

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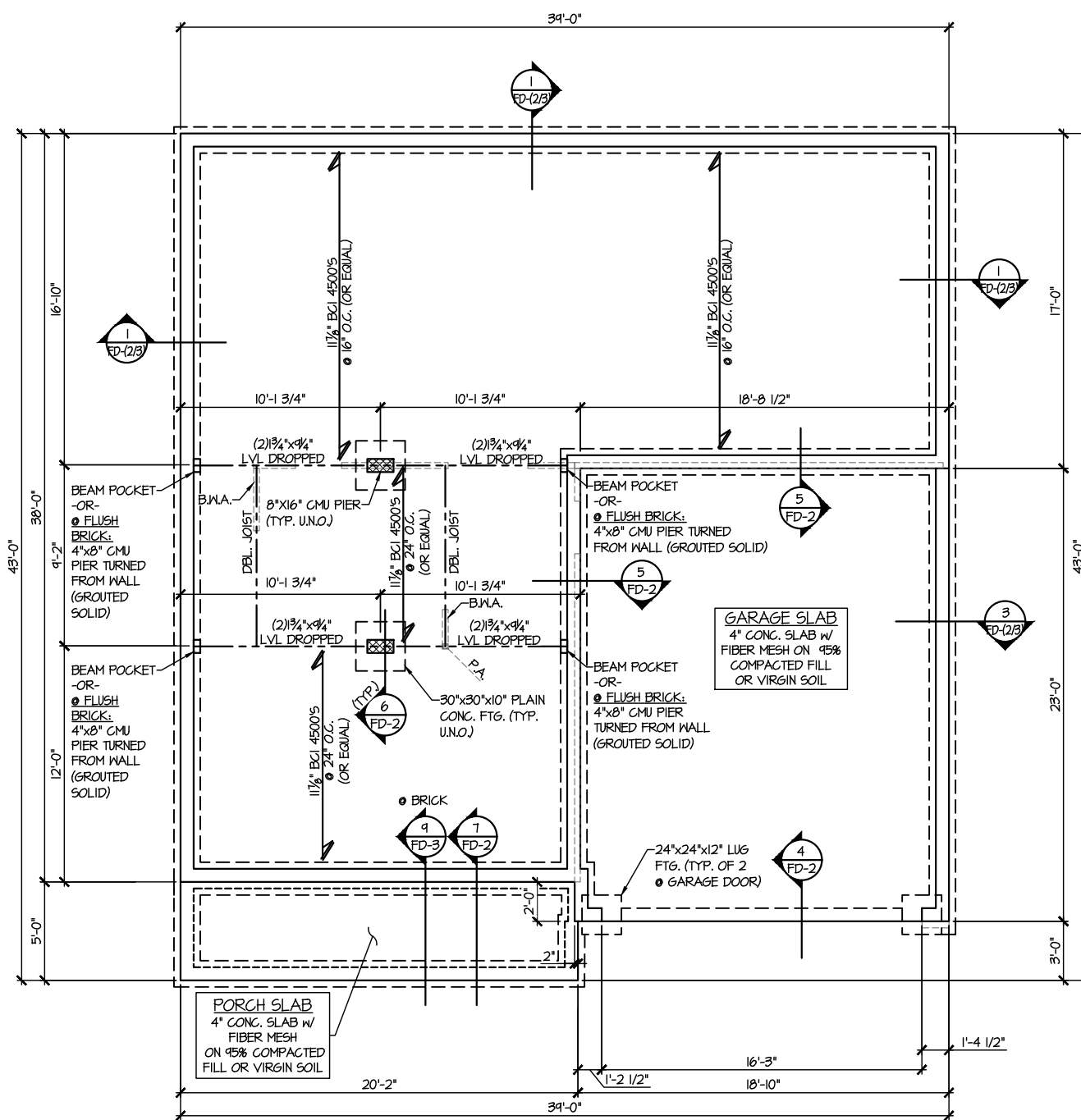
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DIMENSIONS REFLECT FACE OF WALL STUDS ABOVE OR CENTERLINES OF CRAWLSPACE PIERS (REFER TO DETAILS FOR FOUNDATION WALL PLACEMENT RELATIVE TO WALL FRAMING ABOVE)

FOUNDATION HARDWARE SCHEDULE  
ELEVATION C

QTY	PRODUCT
15	SIMPSON STRONG BOLT 2 ANCHORS

HARDWARE NOTES:  
 - ALL NAIL HOLES FILLED  
 - ALL COUNTS ESTIMATED  
 - 15 ADDITIONAL STRONG BOLT 2 ANCHORS INCLUDED FOR MISSED ANCHOR BOLTS



**1 CRAWLSPACE FOUNDATION PLAN**  
 SCALE: 1/8"=1'-0"  
 ELEV. C

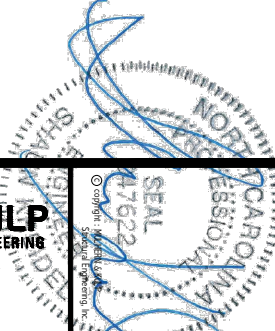
REFER TO S-0.0 FOR  
 TYPICAL STRUCTURAL NOTES  
 & SCHEDULES

SC1.2  
 SHEET: CRAWLSPACE FOUNDATION PLAN  
 RUSSELL  
 ELEVATION C  
 WIND SPEED < 115 MPH NORTH CAROLINA



ARCH: 01.00.0000  
 date: \_\_\_\_\_  
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 REVISIONS:  
 date: \_\_\_\_\_  
 initials: \_\_\_\_\_  
 project mgr: SMK  
 drawn by: NNG  
 issue date: 12-20-19  
 M&K project number: 192-19039

**MULHERN+KULP**  
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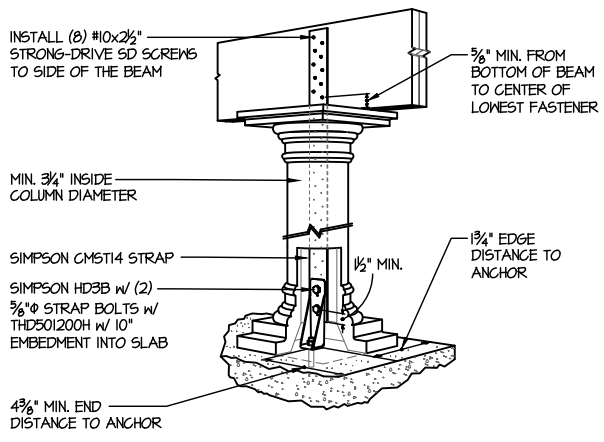


2/20/24

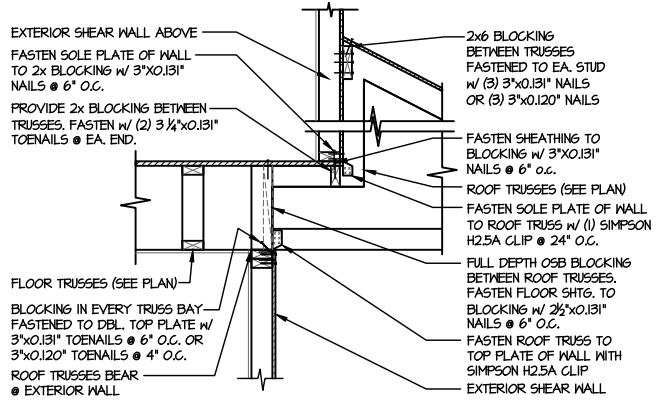
2ND FLOOR HARDWARE SCHEDULE  
ELEVATION C

QTY	PRODUCT
20	SIMPSON H2.5A CLIP
4	SIMPSON CS16 (24" STRAP)
4	SIMPSON CMST14 STRAP
4	SIMPSON HD3B HOLDOWN

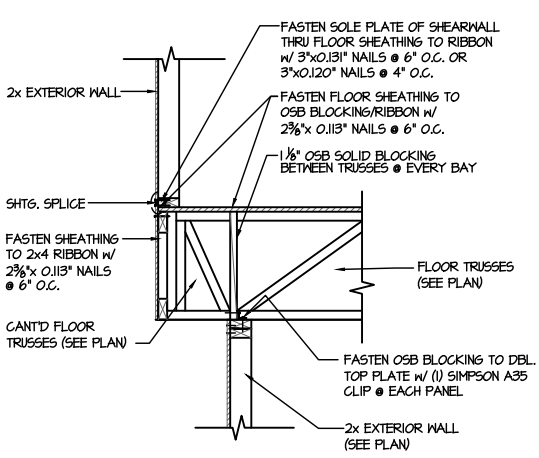
HARDWARE NOTES:  
 - ALL NAIL HOLES FILLED  
 - ALL COUNTS ESTIMATED  
 - HARDWARE COUNT DOES NOT INCLUDE TRUSS TO TRUSS CONNECTIONS



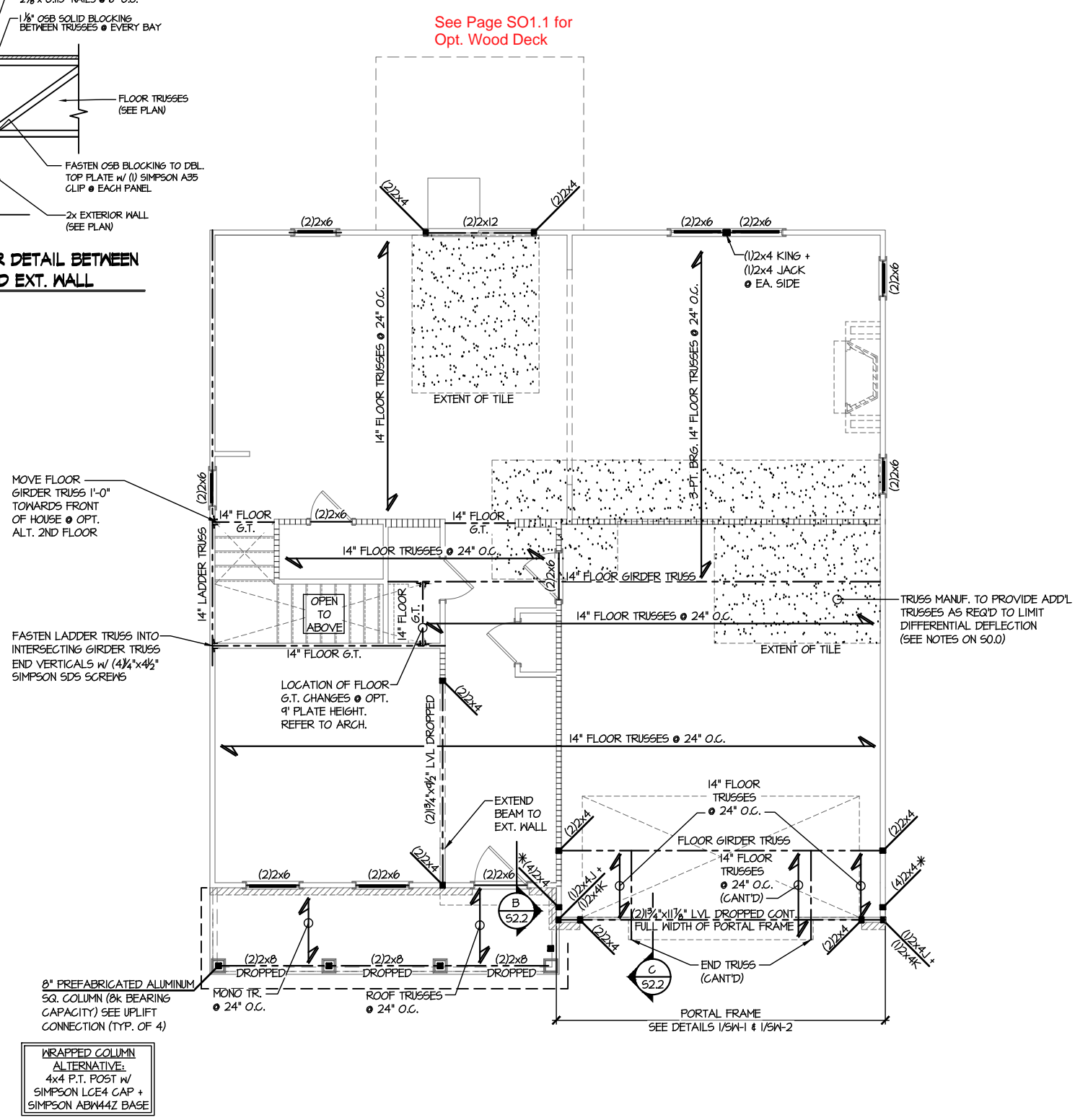
**A** HOLLOW STRUCTURAL COLUMN UPLIFT DETAIL  
NOT TO SCALE - AS REQUIRED



**B** SHEAR TRANSFER DETAIL @ EXTERIOR SHEAR WALL  
SCALE: 3/8"=1'-0"



**C** SHEAR TRANSFER DETAIL BETWEEN FLOORS @ CANT'D EXT. WALL  
SCALE: 3/8"=1'-0"



**2ND FLOOR FRAMING PLAN**  
SCALE: 1/8"=1'-0"  
ELEV. C  
(1ST FLOOR WALLS SHOWN)

PLAN DESIGNED FOR  
8' -OR- 9' PLATE HEIGHT

REFER TO S-0.0 FOR  
TYPICAL STRUCTURAL NOTES  
& SCHEDULES

**S2.2**

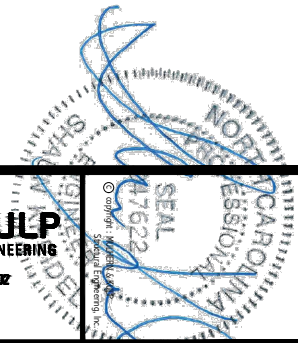
2ND FLOOR FRAMING PLAN  
RUSSELL  
ELEVATION C  
WIND SPEED < 115 MPH NORTH CAROLINA



ARCH: 01.00.00.00	date:	REVISED:	drawn by:	project mgr:	field project number:
	12-20-19		SMK	192-19039	
			NOG		

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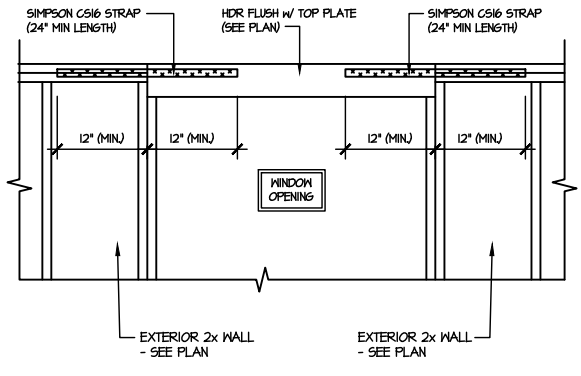


2/20/24

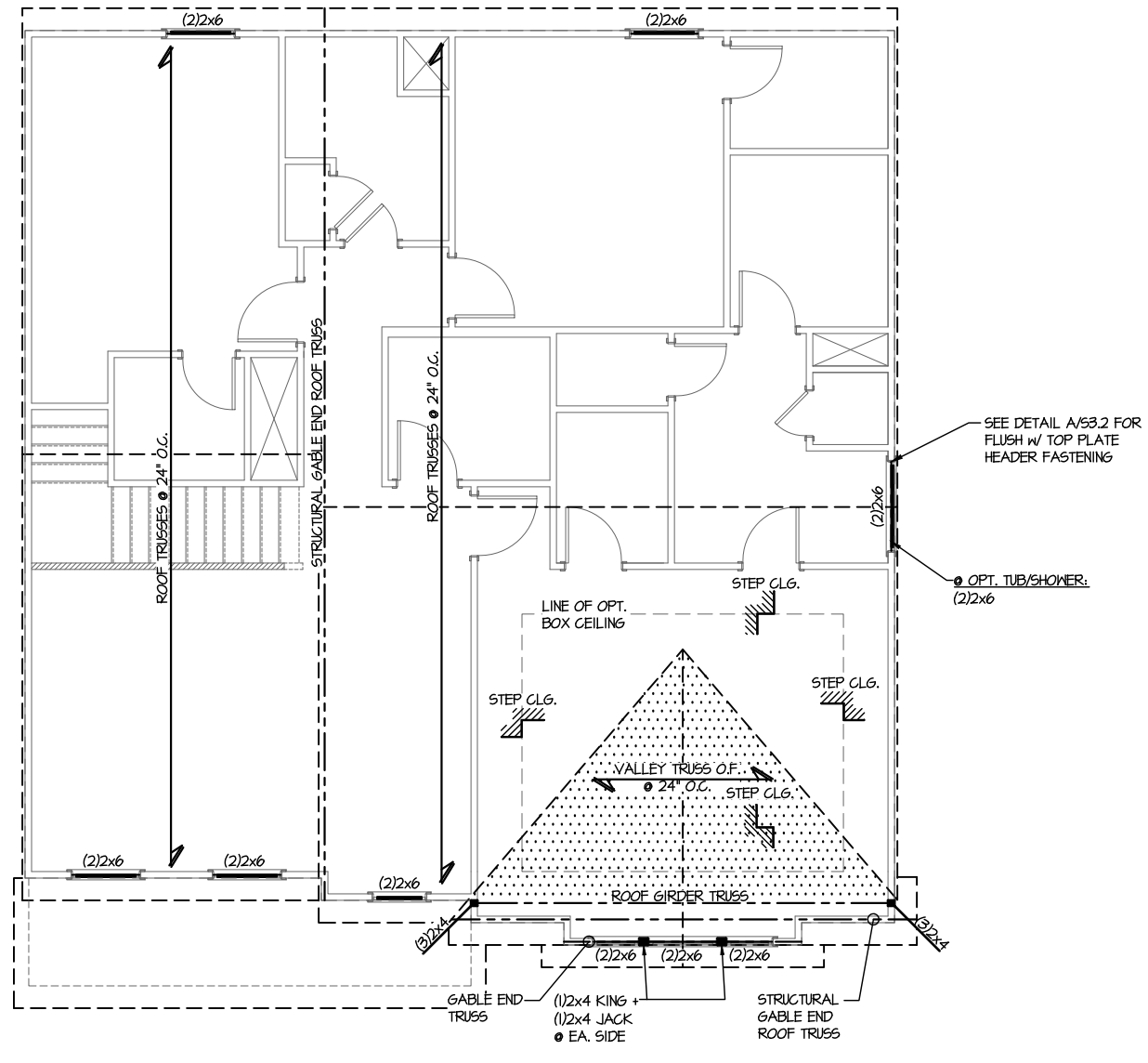
ROOF HARDWARE SCHEDULE  
ELEVATION C

QTY	PRODUCT
62	SIMPSON H2.5A CLIP
2	SIMPSON CS16 (24" STRAP)

HARDWARE NOTES:  
 - ALL NAIL HOLES FILLED  
 - ALL COUNTS ESTIMATED  
 - HARDWARE COUNT DOES NOT INCLUDE TRUSS TO TRUSS CONNECTIONS



**A** SHEAR TRANSFER DETAIL  
AT UPSET WINDOW  
SCALE: 5/8"=1'-0"



**ROOF FRAMING PLAN**

SCALE: 1/8"=1'-0"  
(2ND FLOOR WALLS SHOWN)

ELEV. C

PLAN DESIGNED FOR  
8' PLATE HEIGHT

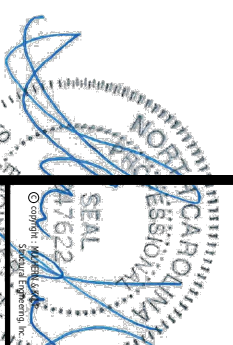
REFER TO S-0.0 FOR  
TYPICAL STRUCTURAL NOTES  
& SCHEDULES

Sheet: **S3.2**  
**ROOF FRAMING PLAN**  
 RUSSELL  
 ELEVATION C  
 WIND SPEED < 115 MPH NORTH CAROLINA

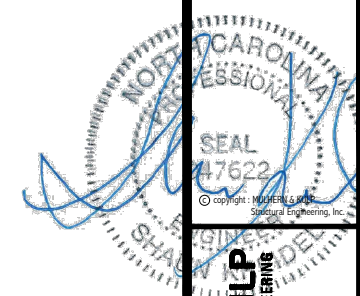


ARCH: 01.00.0000  
 date: \_\_\_\_\_  
 initials: \_\_\_\_\_  
 REVISIONS:  
 project mgr: SMK  
 drawn by: NNG  
 issue date: 12-20-19  
 MK project number: 192-19039

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NC License # C-3825



M&K project number:  
192-19039  
project mgr: SMK  
drawn by: NGG  
issue date: 12-20-19

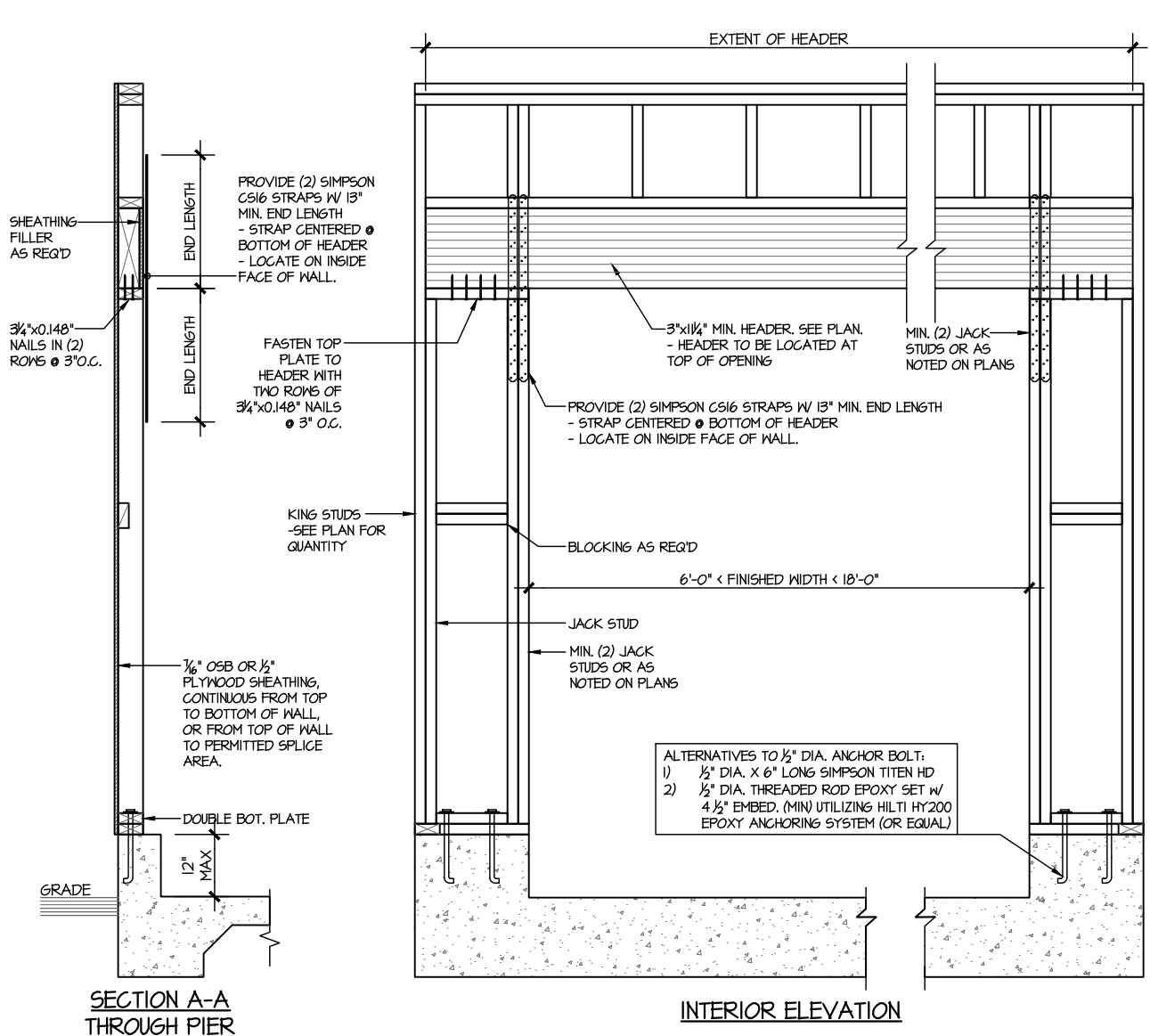
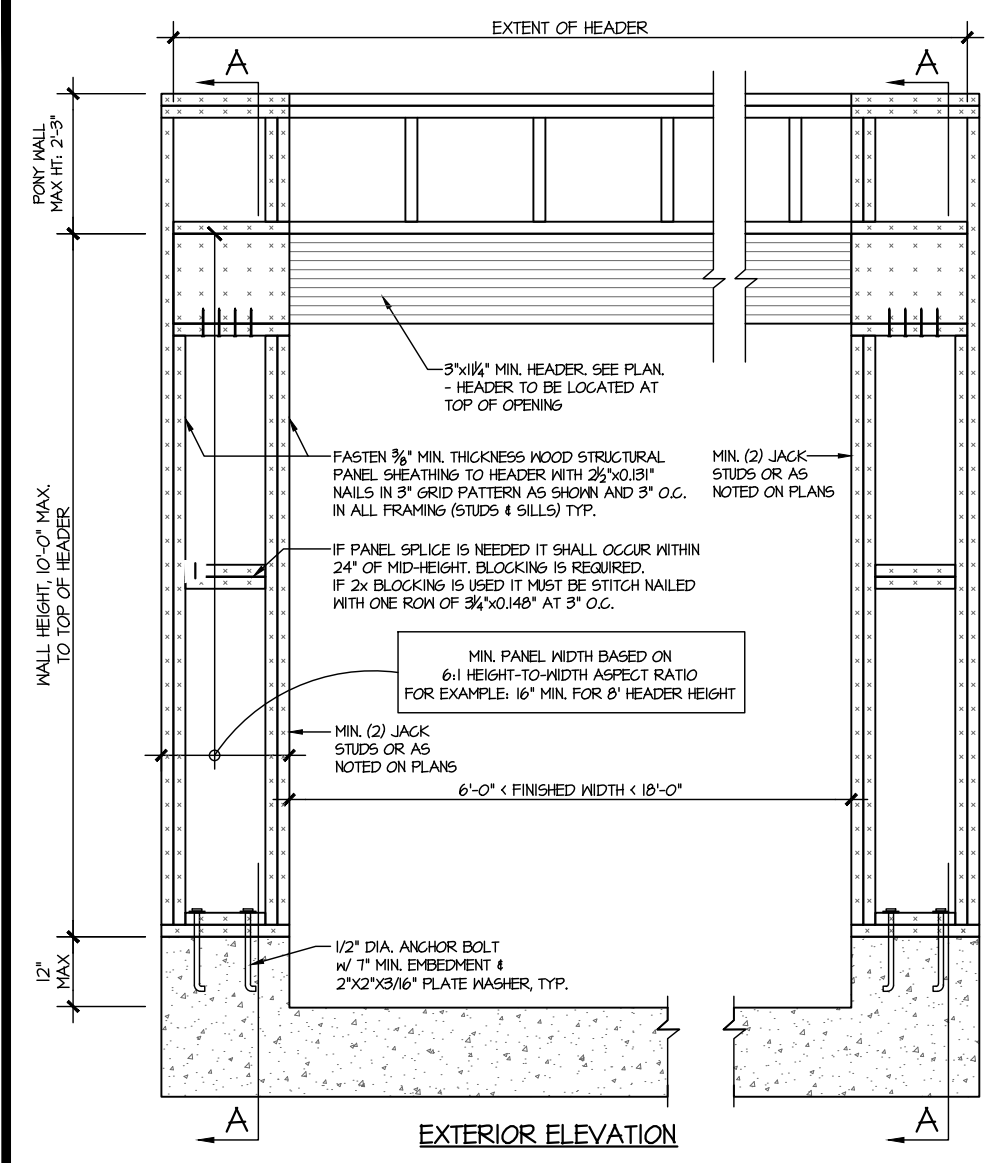
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ARCH: v.01.00.00.00

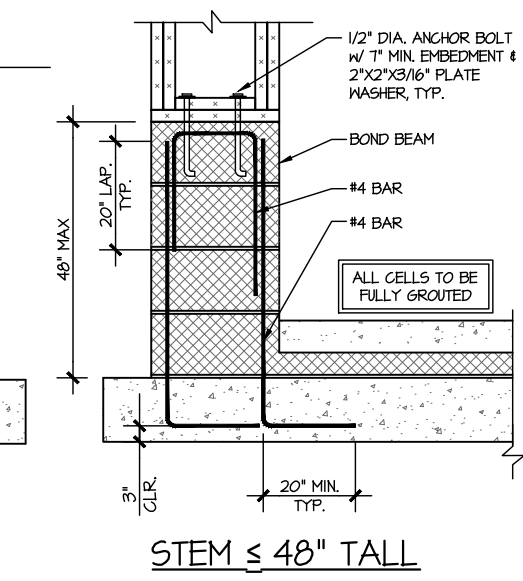
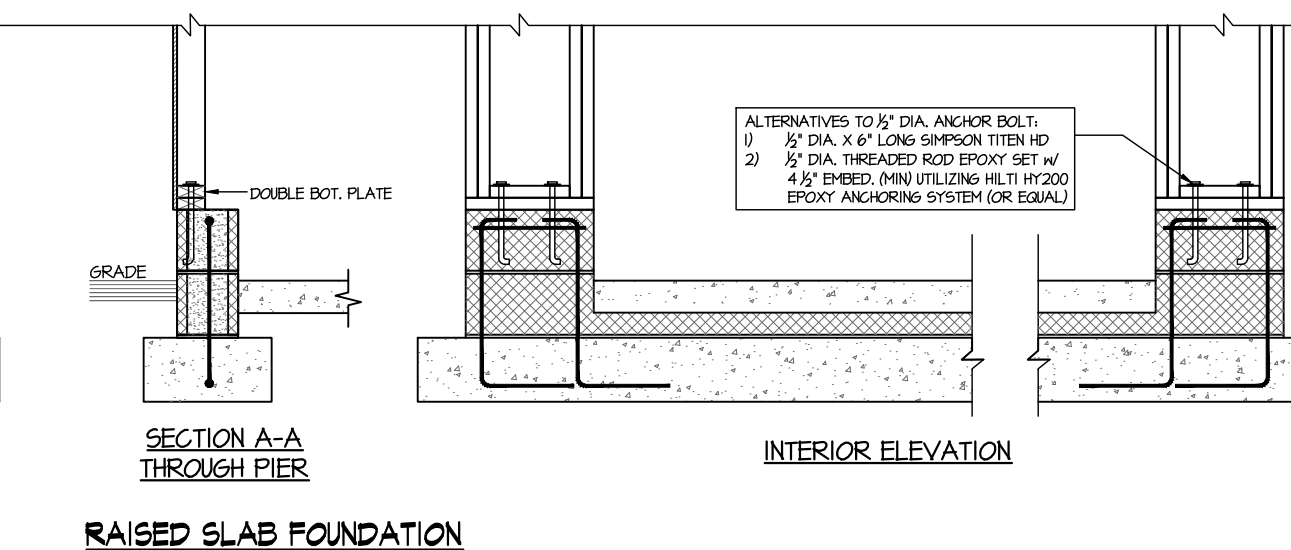
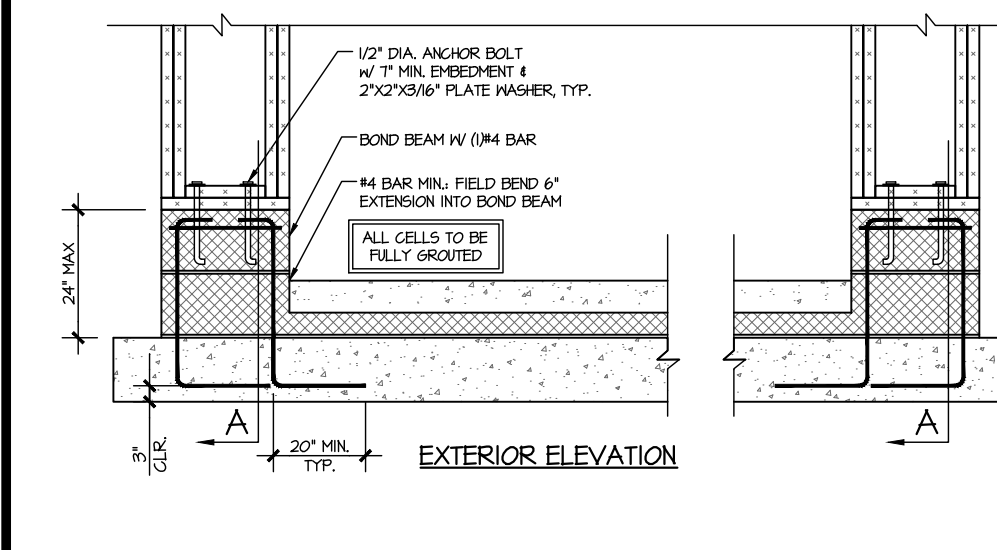
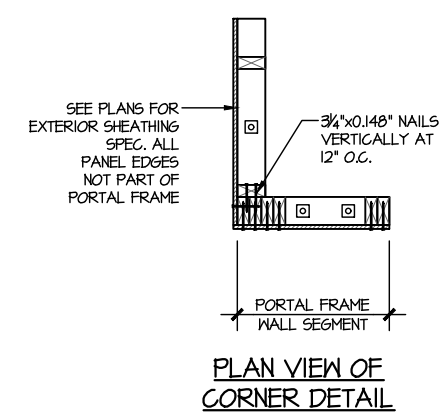


STRUCTURAL DETAILS  
RUSSELL  
WIND SPEED < 115 MPH NORTH CAROLINA

sheet:  
**SW-1**



WALL FRAMING SPECIFICATION:  
 • 2x4 WALL: USE SP/SPF #2 GRADE STUDS (OR BETTER)  
 • 2x6 WALL: USE SP/SPF #2 GRADE STUDS (OR BETTER)



1 PORTAL FRAME DETAIL  
SCALE: N.T.S.

BOTH SIDES OF GARAGE DOOR  
1 KING STUD & RETURN WALLS



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NC License # C-3825



M&K project number: 192-19039  
project mgr: SMK  
drawn by: NGG  
issue date: 12-20-19

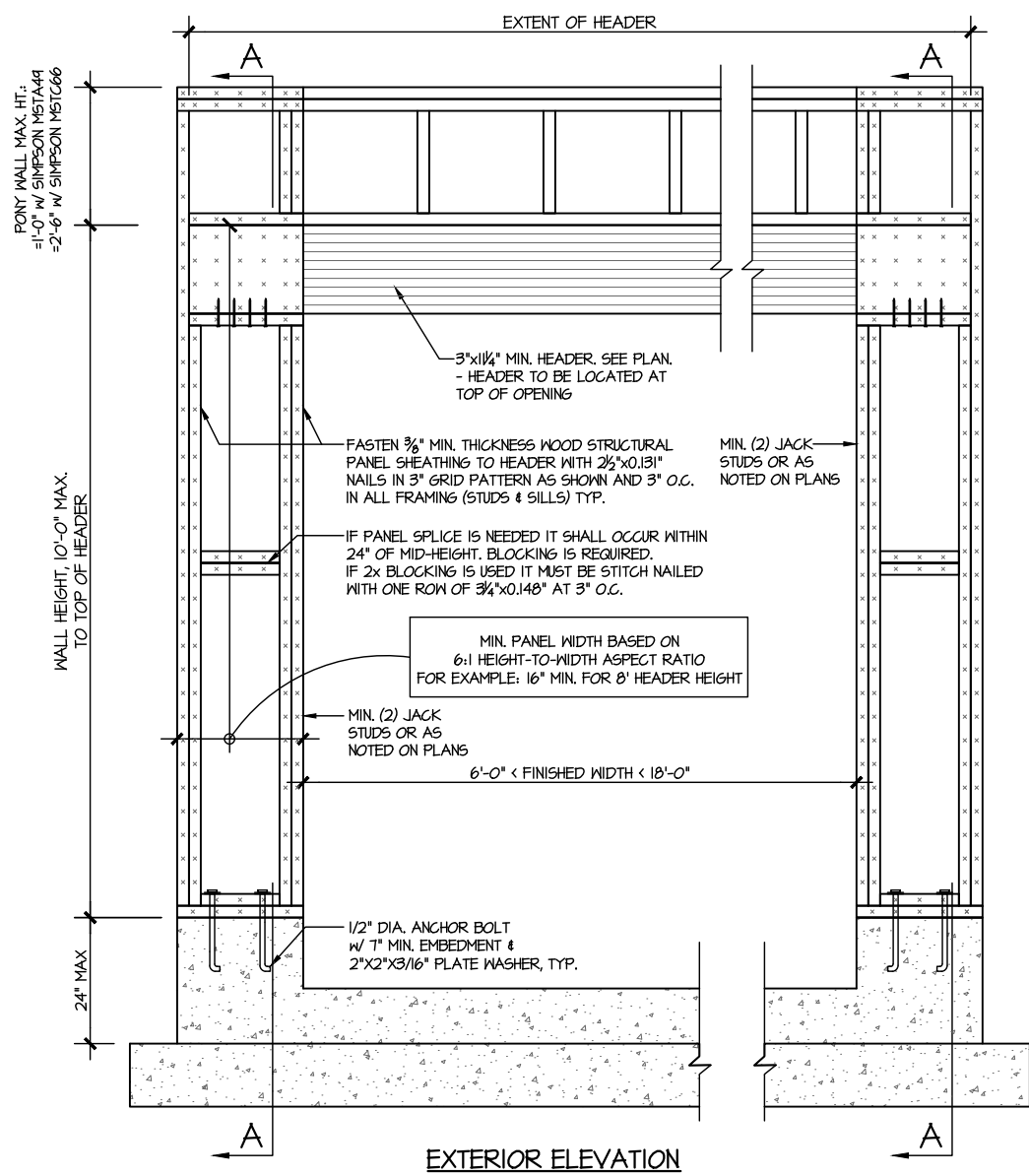
REVISIONS:  
date: initial:

ARCH: v.01.00.00.00

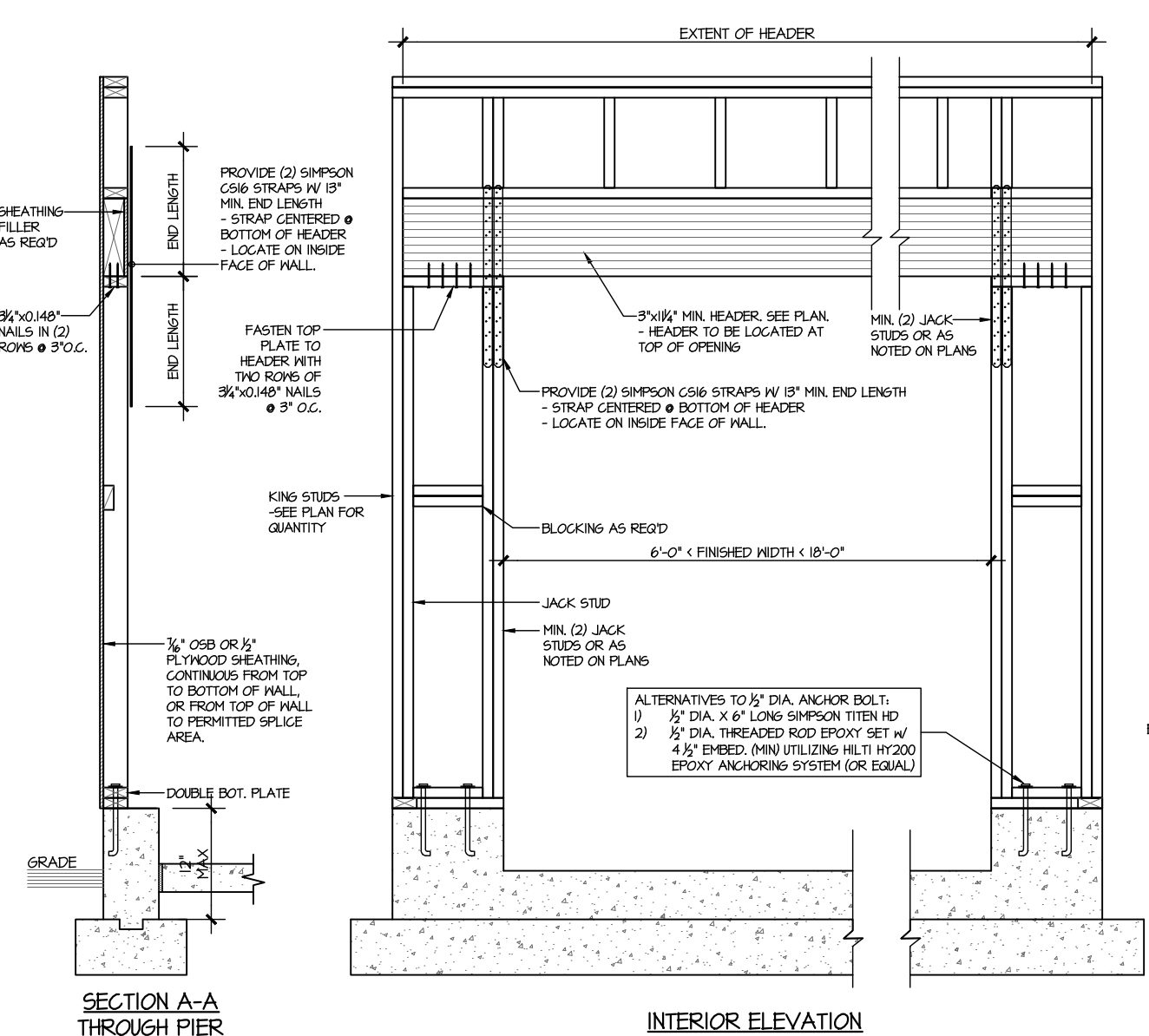


STRUCTURAL DETAILS  
RUSSELL  
WIND SPEED < 115 MPH NORTH CAROLINA

sheet: **SW-2**



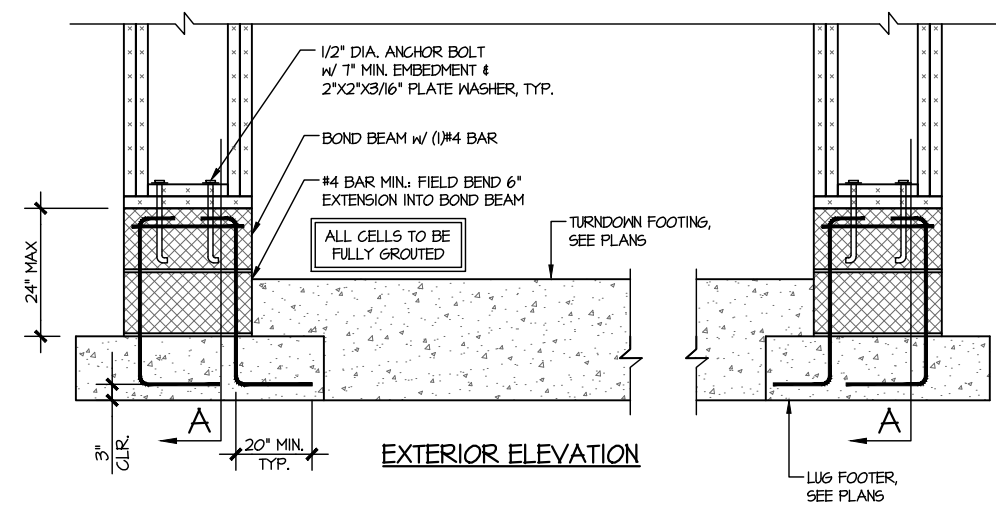
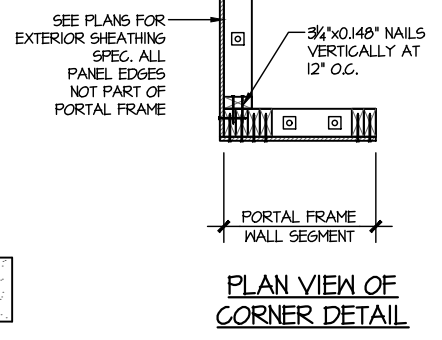
EXTERIOR ELEVATION



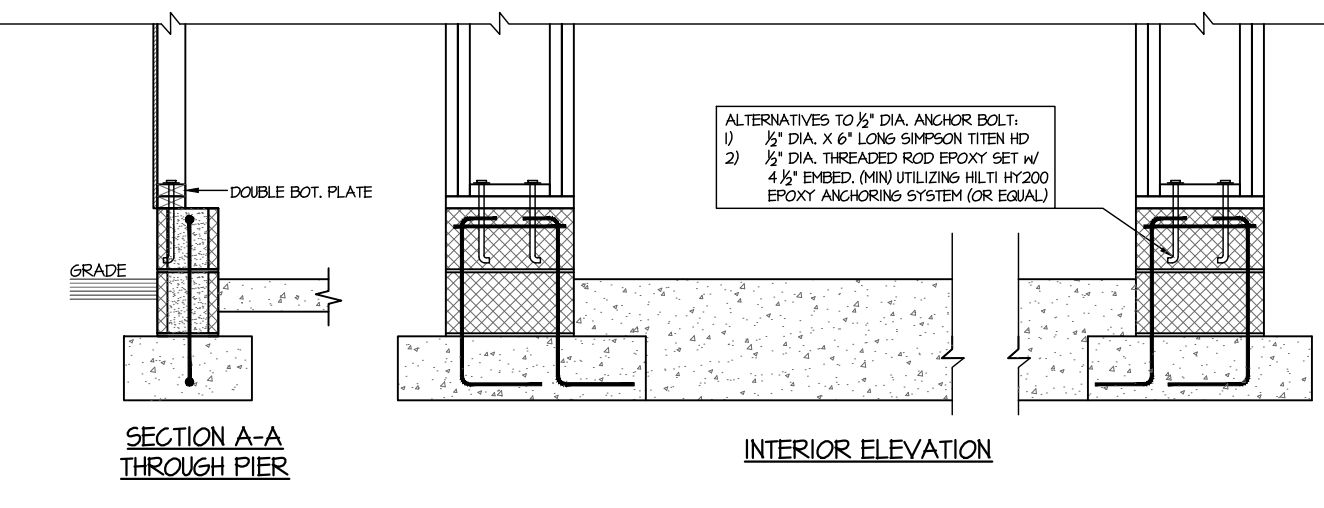
SECTION A-A THROUGH PIER

BASEMENT FOUNDATION

WALL FRAMING SPECIFICATION:  
• 2x4 WALL: USE SP/SPF #2 GRADE STUDS (OR BETTER)  
• 2x6 WALL: USE SP/SPF #2 GRADE STUDS (OR BETTER)

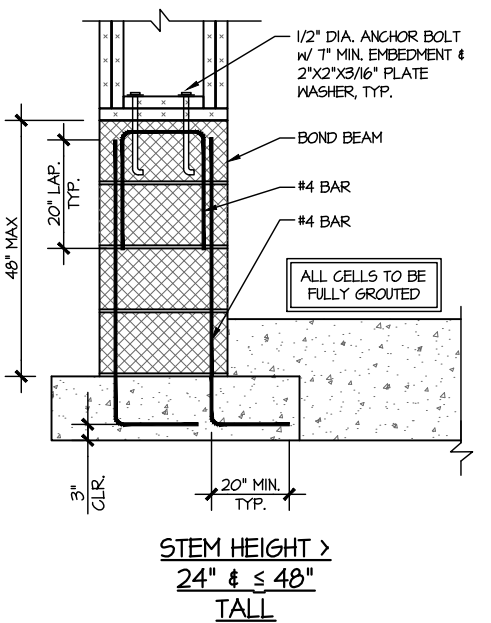


EXTERIOR ELEVATION



SECTION A-A THROUGH PIER

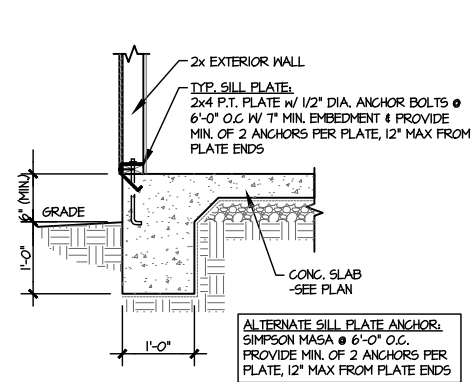
CRAWLSPACE FOUNDATION



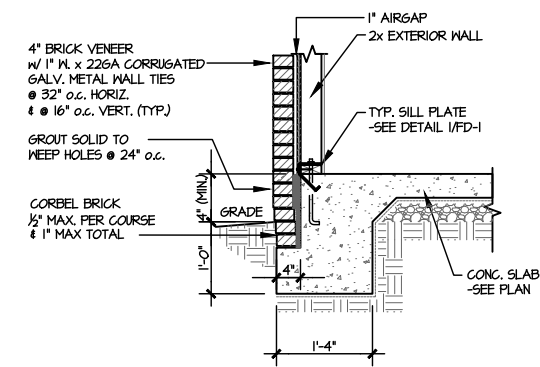
STEM HEIGHT > 24" & ≤ 48" TALL

PORTAL FRAME DETAIL  
SCALE: N.T.S.

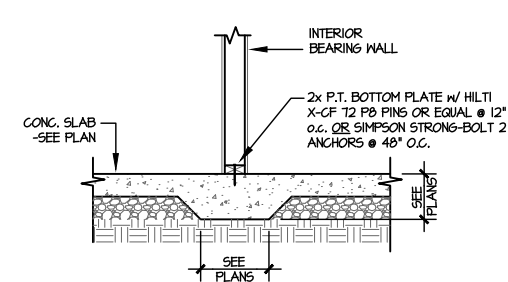
BOTH SIDES OF GARAGE DOOR  
1 KING STUD & RETURN WALLS



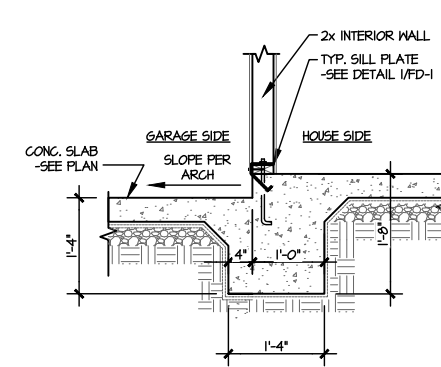
**1** TYPICAL TURNDOWN @ EXT. WALL  
SCALE: 3/8\"/>



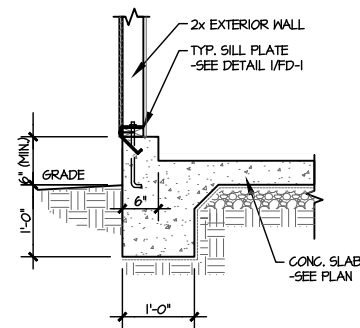
**2** TYPICAL TURNDOWN @ EXT. WALL (BRICK)  
SCALE: 3/8\"/>



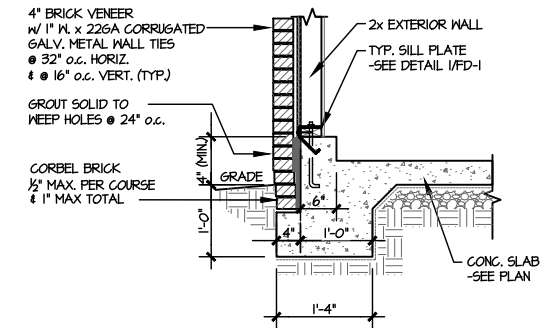
**3** TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL  
SCALE: 3/8\"/>



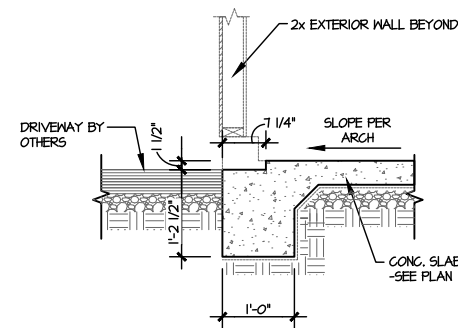
**4** TYPICAL INT. FOOTING BETWEEN HOUSE & GARAGE  
SCALE: 3/8\"/>



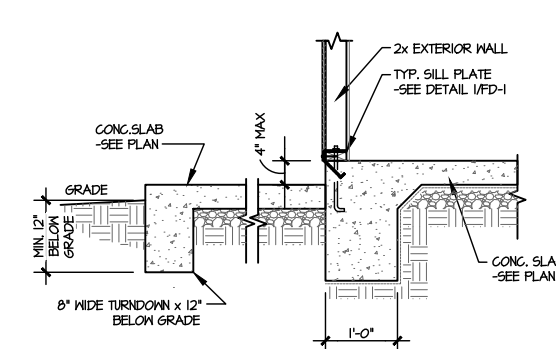
**5** TYPICAL TURNDOWN @ EXT. GARAGE WALL  
SCALE: 3/8\"/>



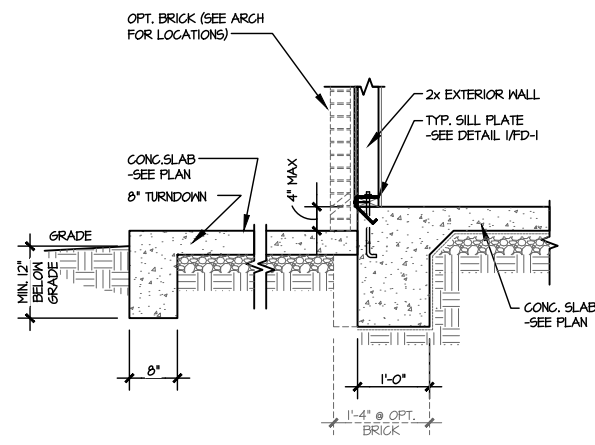
**6** TYPICAL TURNDOWN @ EXT. GARAGE WALL (BRICK)  
SCALE: 3/8\"/>



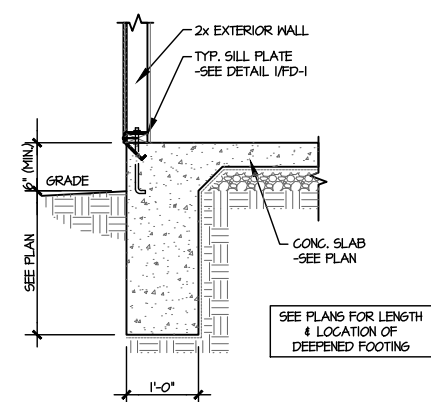
**7** GARAGE OPENING  
SCALE: 3/8\"/>



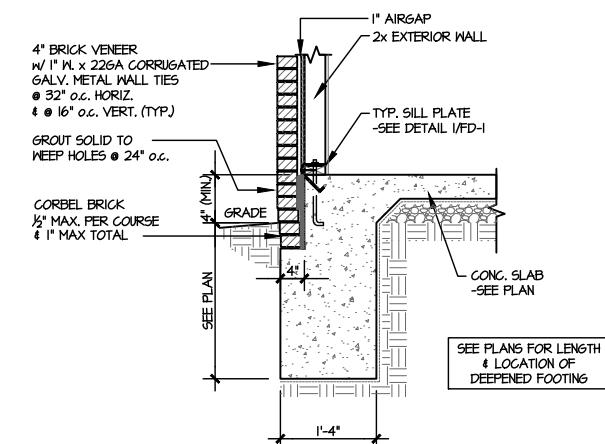
**8** TYPICAL TURNDOWN @ PATIO/PORCH  
SCALE: 3/8\"/>



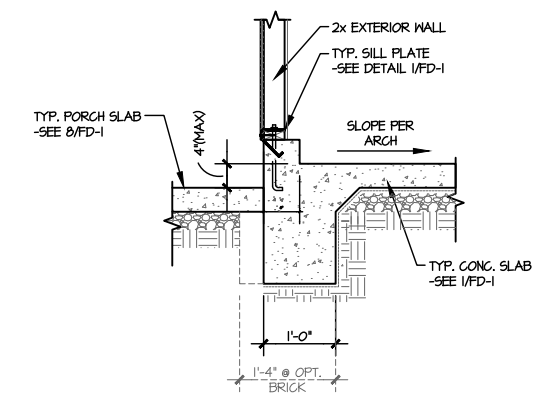
**9** TYPICAL TURNDOWN @ PATIO/PORCH (BRICK)  
SCALE: 3/8\"/>



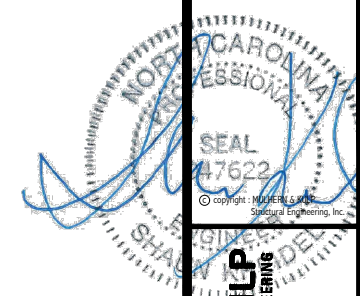
**10** TYPICAL TURNDOWN W/ DEEPEMED FTGS. @ EXT. WALL  
SCALE: 3/8\"/>



**11** TYPICAL TURNDOWN @ EXT. WALL (BRICK)  
SCALE: 3/8\"/>



**12** TYPICAL TURNDOWN @ COVERED PORCH/ATTACHED GARAGE  
SCALE: 3/8\"/>



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NC License # C-3825

MS&K project number: 192-19039

project mgr: SMK

drawn by: NGG

issue date: 12-20-19

REVISIONS:

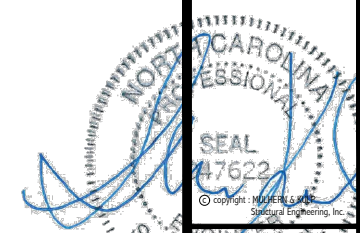
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ARCH: v.01.00.00.00



FOUNDATION DETAILS  
RUSSELL  
WIND SPEED < 115 MPH NORTH CAROLINA





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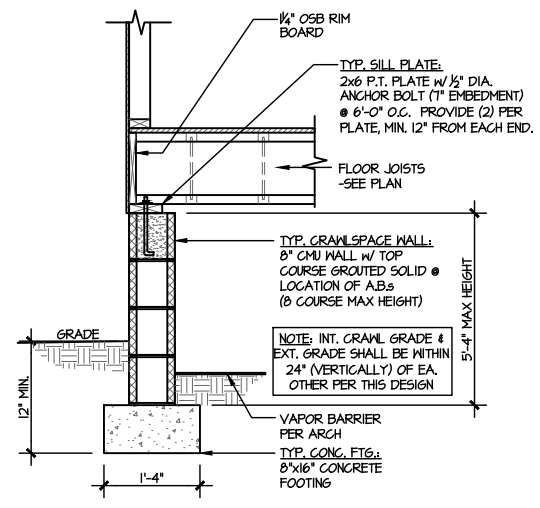
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ARCH: v.01.00.00.00



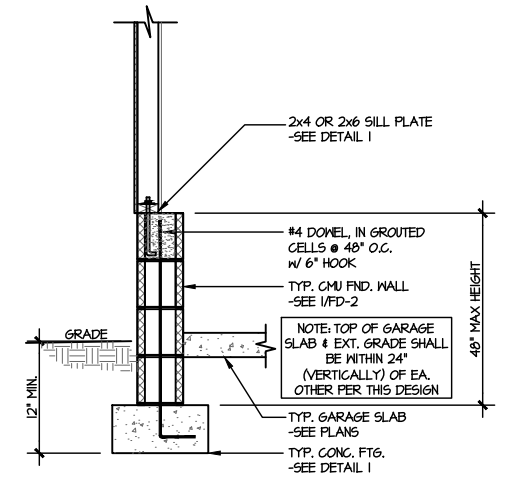
FOUNDATION DETAILS  
RUSSELL  
WIND SPEED < 115 MPH NORTH CAROLINA

sheet: **FD-2**

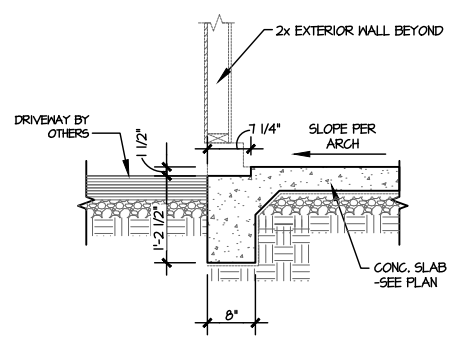


**1** TYPICAL CRAWLSPACE FOUNDATION  
SCALE: 3/8"=1'-0"

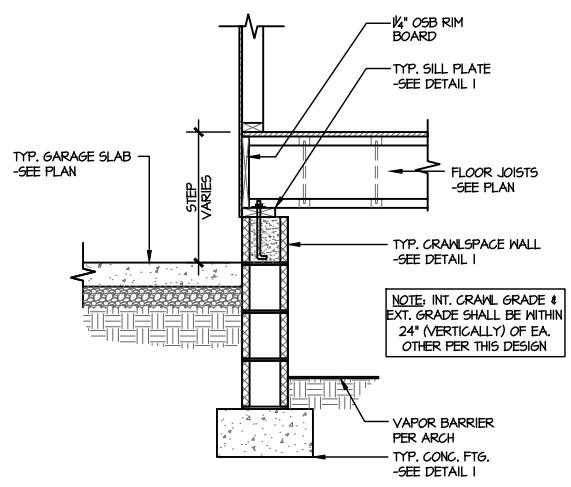
**2** NOT USED  
SCALE: 3/8"=1'-0"



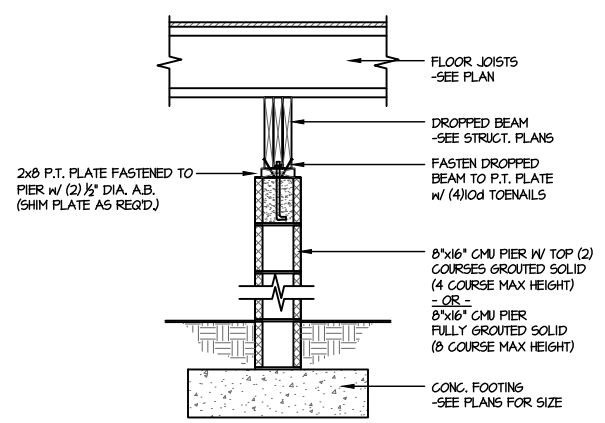
**3** TYPICAL PERIMETER FOOTING @ EXTERIOR GARAGE WALL  
SCALE: 3/8"=1'-0"



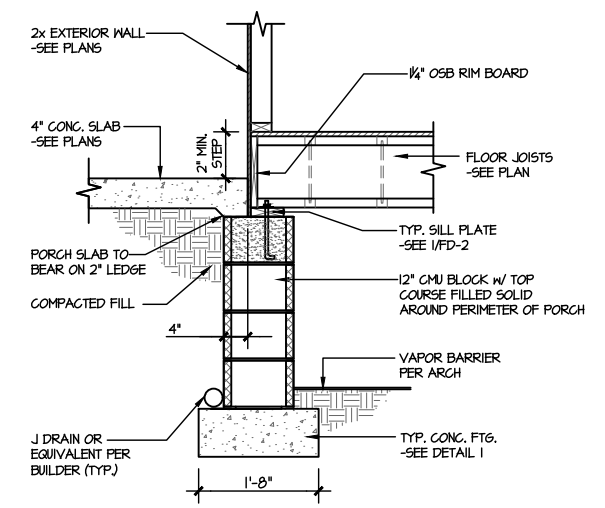
**4** TYPICAL TURNDOWN FOOTING AT EXTERIOR GARAGE APRON  
SCALE: 3/8"=1'-0"



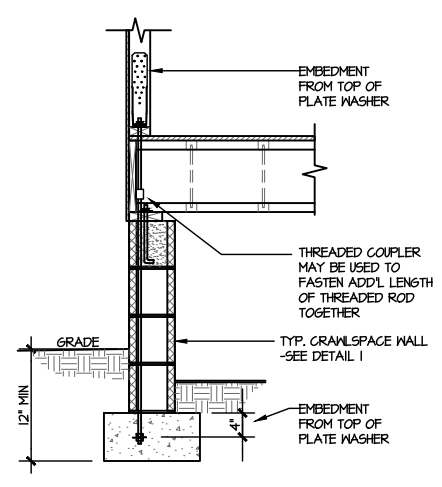
**5** TYPICAL CRAWLSPACE FOUNDATION @ INTERIOR GARAGE WALL  
SCALE: 3/8"=1'-0"



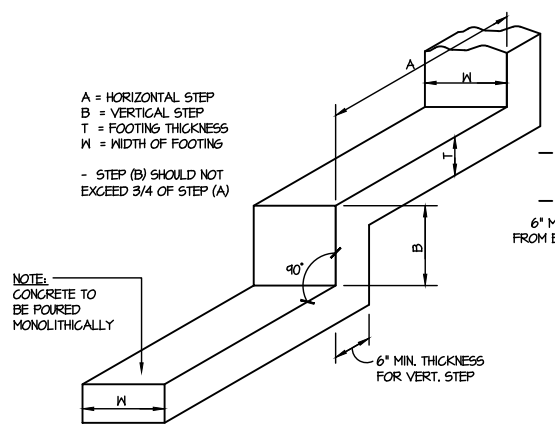
**6** TYPICAL CRAWLSPACE FOUNDATION @ INTERIOR PIER  
SCALE: 3/8"=1'-0"



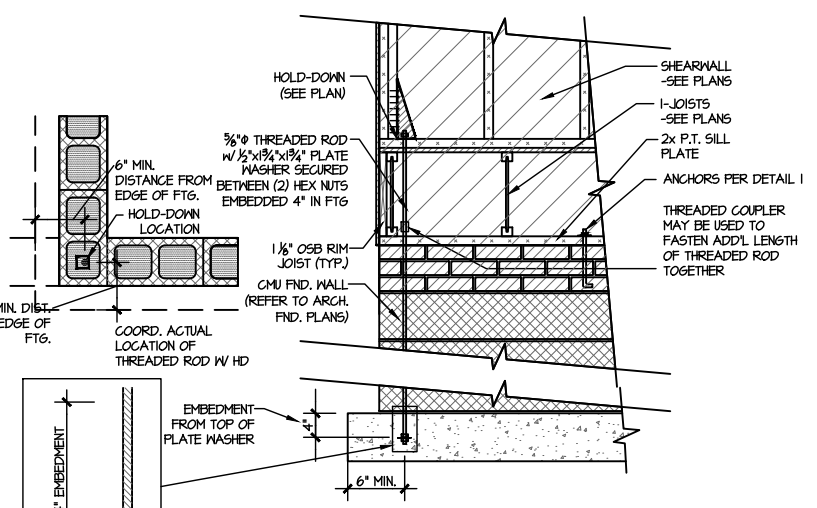
**7** TYPICAL CRAWLSPACE FOUNDATION @ PORCH SLAB  
SCALE: 3/8"=1'-0"



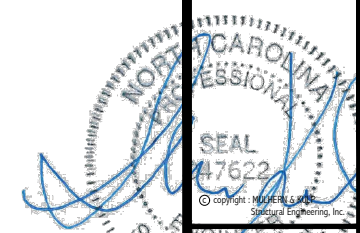
**A** TYPICAL CRAWLSPACE FOUNDATION HOLD-DOWN INSTALLATION  
SCALE: 3/8"=1'-0" w/ STONE VENEER OR SIDING



**B** TYPICAL STEPPED FOOTING DETAIL  
SCALE: N.T.S.



**C** TYPICAL CMU FOUNDATION HOLD-DOWN INSTALLATION  
SCALE: 3/8"=1'-0" (CORNER SHOWN - APPLICABLE TO ALL CONDITIONS)



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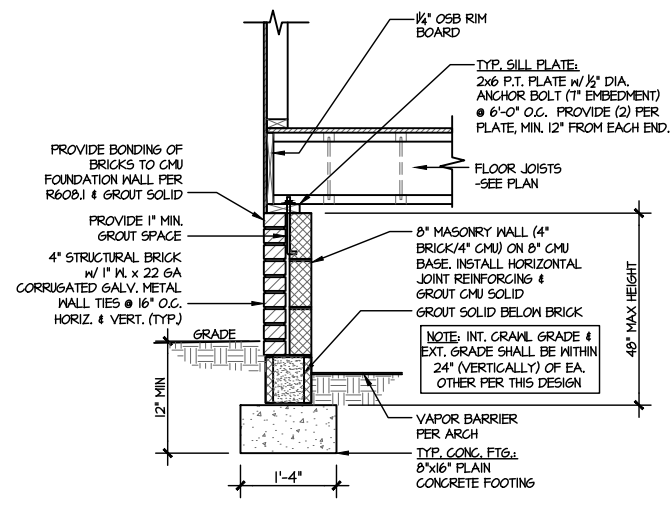


M&K project number:  
192-19039  
project mgr: SMK  
drawn by: NGG  
issue date: 12-20-19  
REVISIONS:  
date: initial:

ARCH: v.01.00.00.00

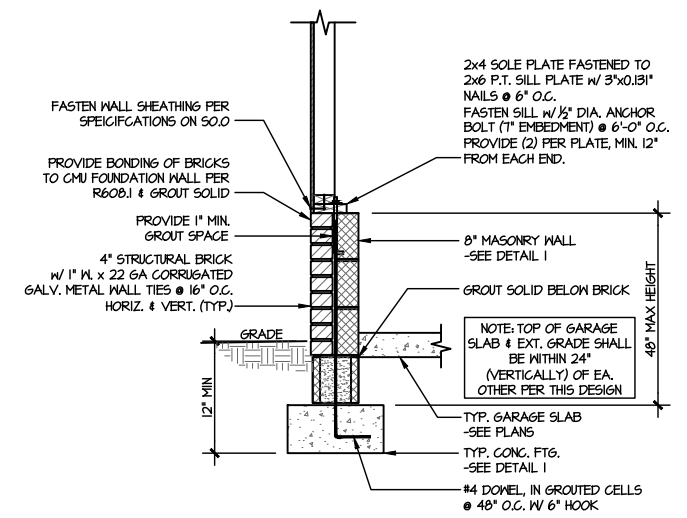


FOUNDATION DETAILS  
RUSSELL  
WIND SPEED < 115 MPH NORTH CAROLINA



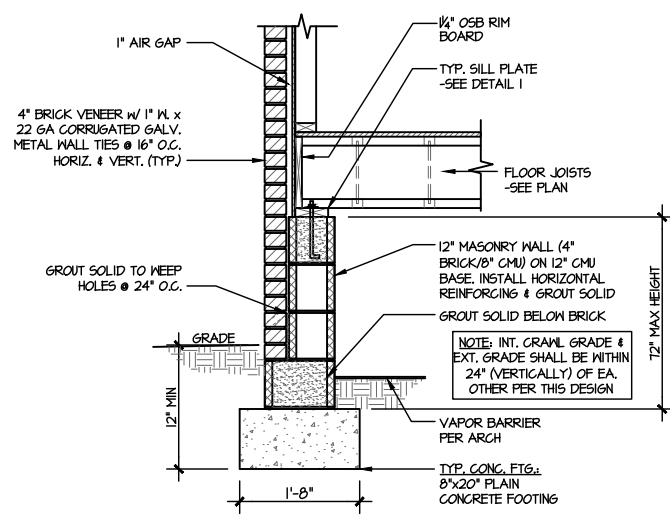
**1** TYPICAL CRAWLSPACE FOUNDATION  
SCALE: 3/8"=1'-0"  
W/ BRICK WATERTABLE

**2** NOT USED  
SCALE: 3/8"=1'-0"



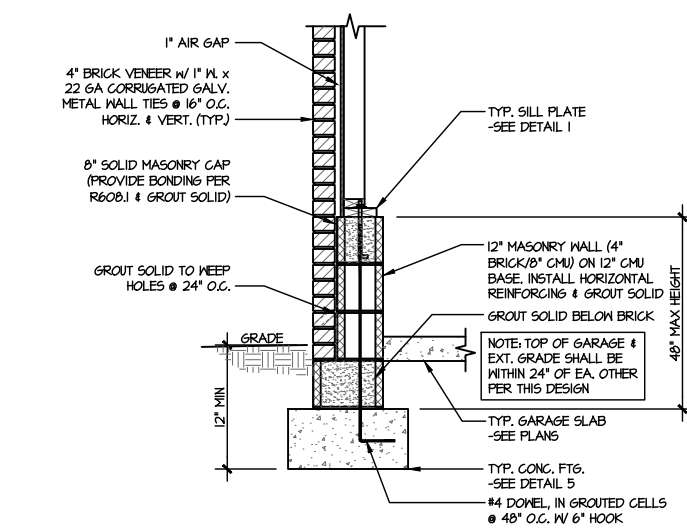
**3** TYPICAL CRAWLSPACE FOUNDATION  
@ EXTERIOR GARAGE WALL  
SCALE: 3/8"=1'-0"  
W/ BRICK WATERTABLE

**4** NOT USED  
SCALE: 3/8"=1'-0"



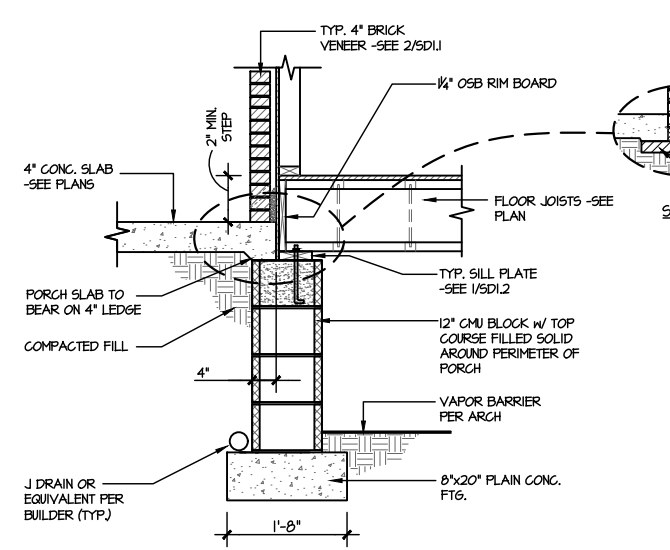
**5** TYPICAL CRAWLSPACE FOUNDATION  
SCALE: 3/8"=1'-0"  
W/ FULL BRICK VENEER

**6** NOT USED  
SCALE: 3/8"=1'-0"

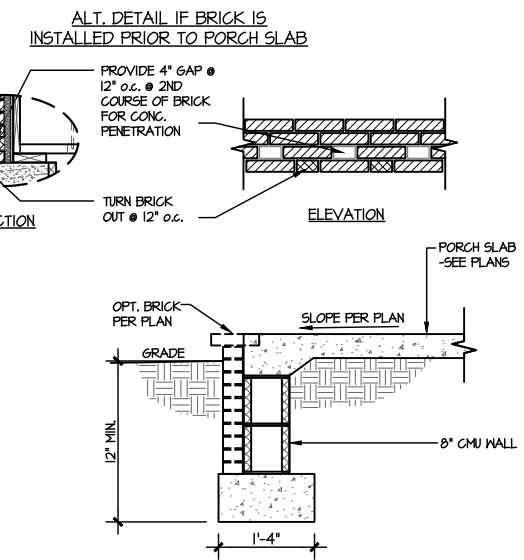


**7** TYPICAL CRAWLSPACE FOUNDATION  
@ EXTERIOR GARAGE WALL  
SCALE: 3/8"=1'-0"  
W/ FULL BRICK VENEER

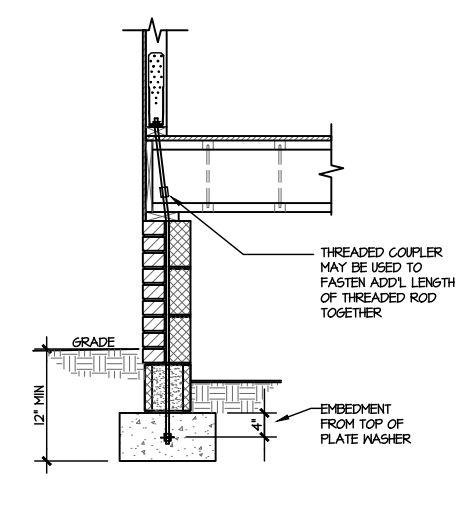
**8** NOT USED  
SCALE: 3/8"=1'-0"



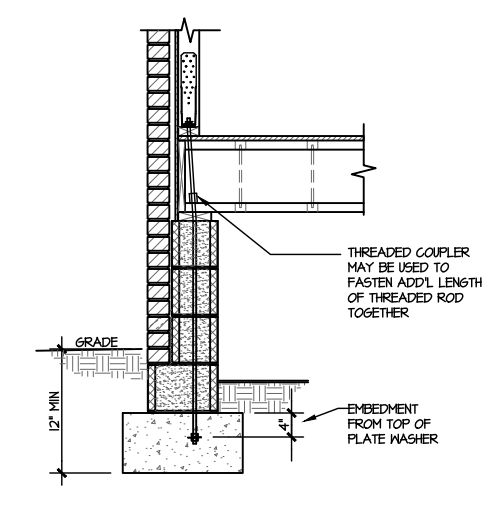
**9** TYPICAL CRAWLSPACE FOUNDATION  
@ PORCH/PATIO SLAB  
SCALE: 3/8"=1'-0"  
W/ BRICK VENEER



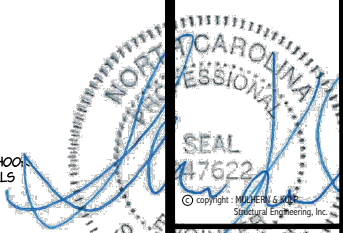
**10** TYPICAL FOOTING @ PORCH SLAB  
SCALE: 3/8"=1'-0"



**D** TYPICAL CRAWLSPACE FOUNDATION  
HOLD-DOWN INSTALLATION  
SCALE: 3/8"=1'-0"  
W/ BRICK WATERTABLE



**E** TYPICAL CRAWLSPACE FOUNDATION  
HOLD-DOWN INSTALLATION  
SCALE: 3/8"=1'-0"  
W/ FULL BRICK VENEER



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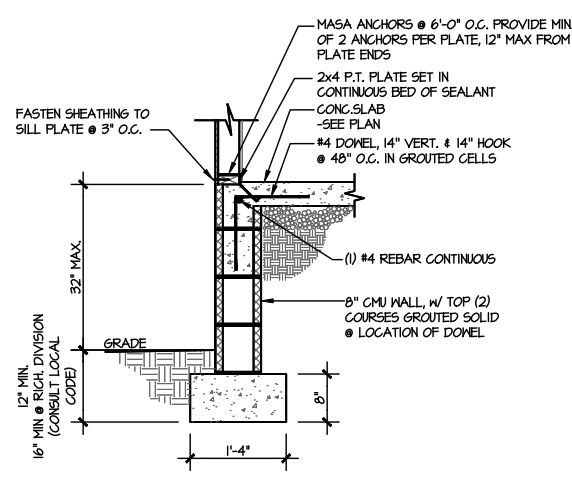
M&K project number: 192-19039  
project mgr: SMK  
drawn by: NGG  
issue date: 12-20-19

REVISIONS:  
date: initial:

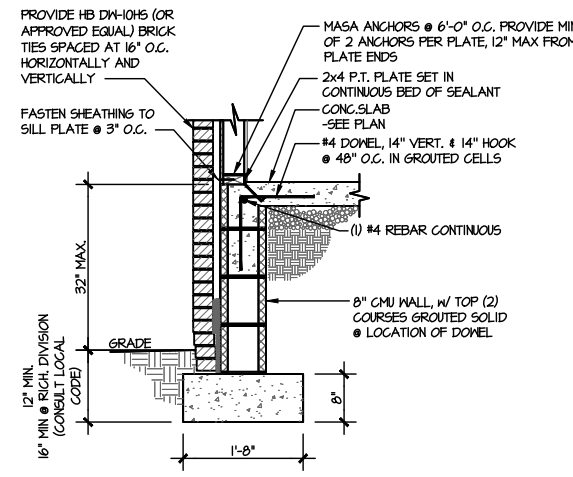


FOUNDATION DETAILS  
RUSSELL  
WIND SPEED < 115 MPH NORTH CAROLINA

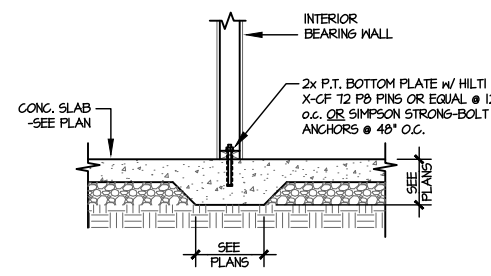
sheet: **FD-4**



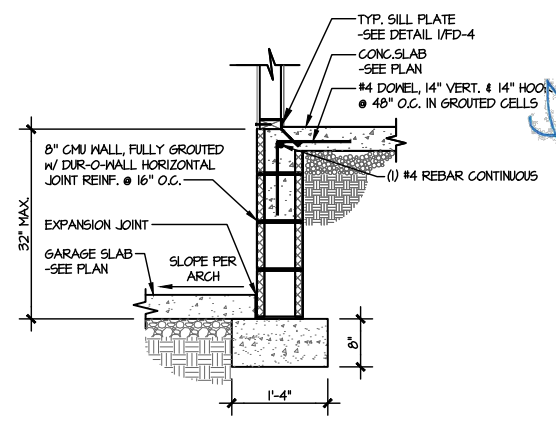
**1 TYP. EXT. FND WALL**  
SCALE: 3/8"=1'-0"  
RAISED SLAB CONDITION (2'-6")



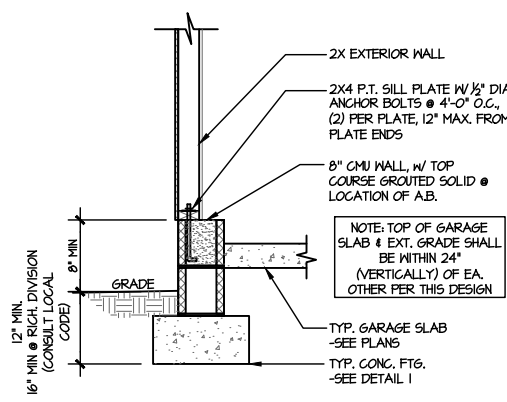
**2 TYP. EXT. FND WALL (BRICK)**  
SCALE: 3/8"=1'-0"  
RAISED SLAB CONDITION (2'-6")



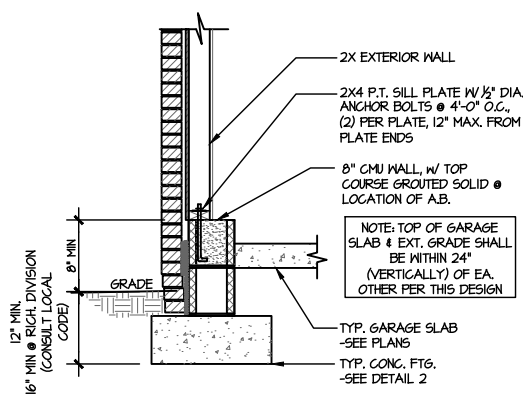
**3 TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL**  
SCALE: 3/8"=1'-0"



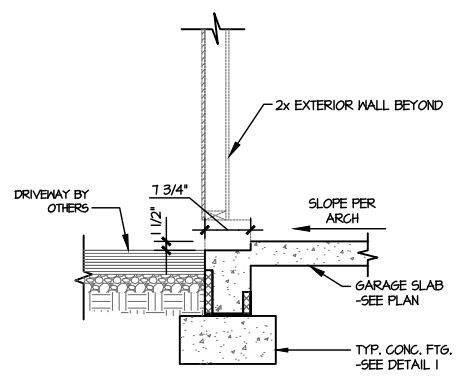
**4 TYPICAL INT. FOOTING BETWEEN HOUSE & GARAGE**  
SCALE: 3/8"=1'-0"



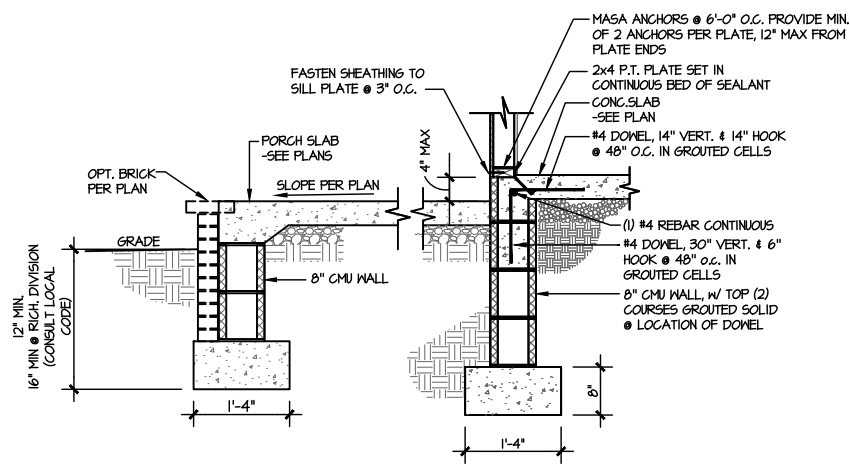
**5 TYPICAL FOUNDATION @ EXT. GARAGE WALL**  
SCALE: 3/8"=1'-0"



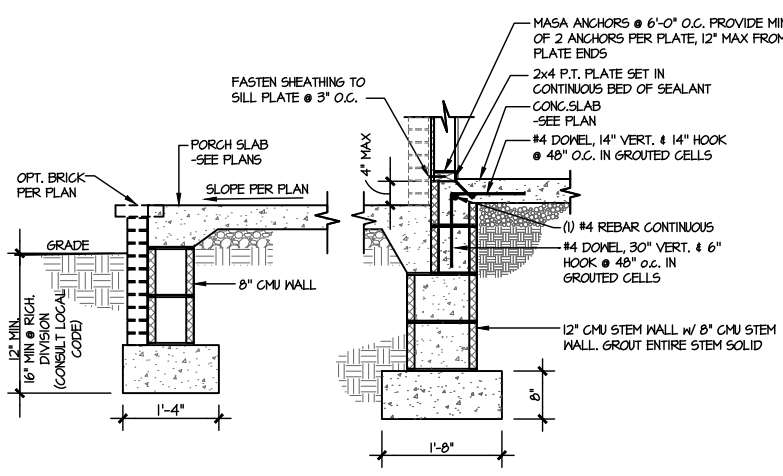
**6 TYPICAL FOUNDATION @ EXT. GARAGE WALL (BRICK)**  
SCALE: 3/8"=1'-0"



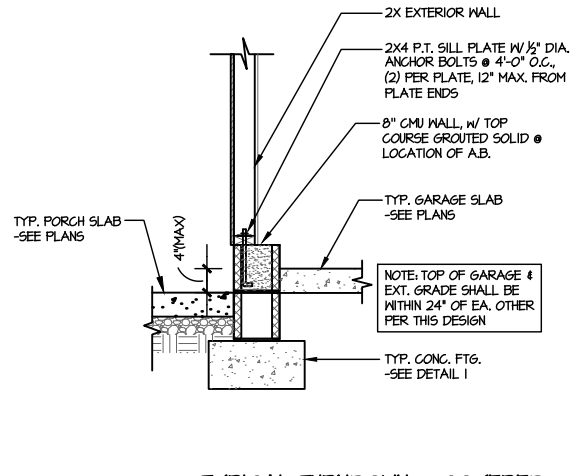
**7 TYPICAL FOUNDATION @ EXT. GARAGE WALL**  
SCALE: 3/8"=1'-0"



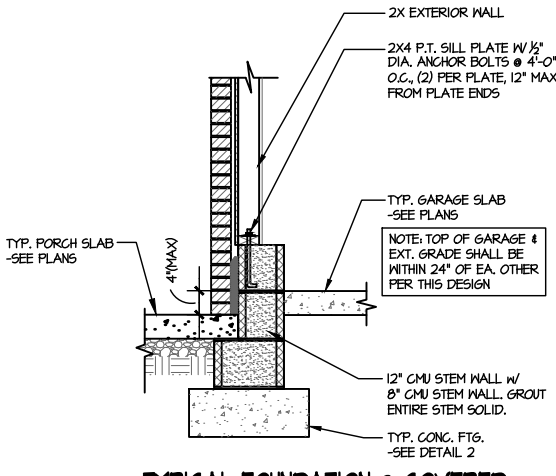
**8 TYPICAL FOUNDATION @ PATIO/PORCH**  
SCALE: 3/8"=1'-0"  
RAISED SLAB CONDITION (2'-6")



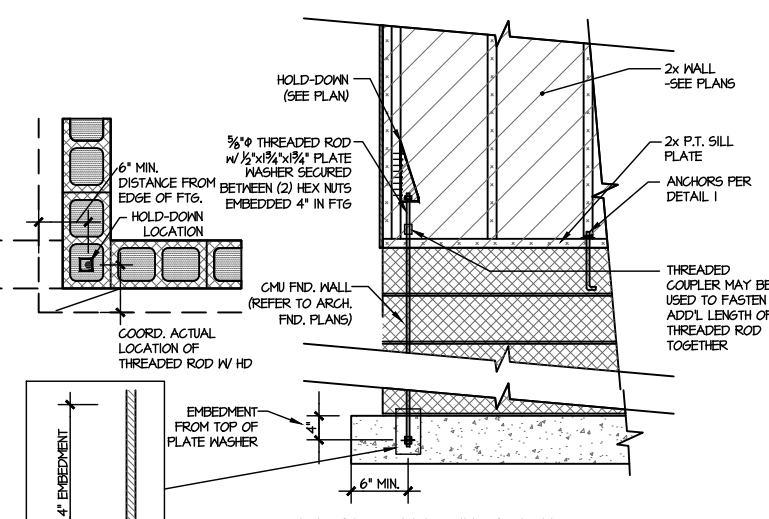
**9 TYPICAL FOUNDATION @ PATIO/PORCH (BRICK)**  
SCALE: 3/8"=1'-0"  
RAISED SLAB CONDITION (2'-6")



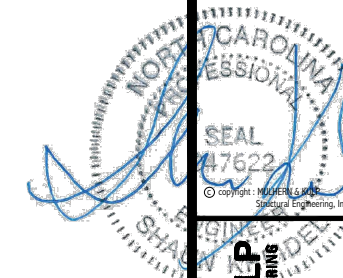
**10 TYPICAL TURNDOWN @ COVERED PORCH/ATTACHED GARAGE**  
SCALE: 3/8"=1'-0"



**11 TYPICAL FOUNDATION @ COVERED PORCH/ATTACHED GARAGE (BRICK)**  
SCALE: 3/8"=1'-0"



**A TYPICAL CMU FOUNDATION HOLD-DOWN INSTALLATION**  
SCALE: 3/8"=1'-0"  
(CORNER SHOWN - APPLICABLE TO ALL CONDITIONS)



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RESIDENTIAL STRUCTURAL ENGINEERING  
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771.558.8881 - mulhern+kulp.com  
NC License # C-3825



M&K project number:  
192-19039

project mgr: SMK  
drawn by: NGG  
issue date: 12-20-19

REVISIONS:  
date: initial:

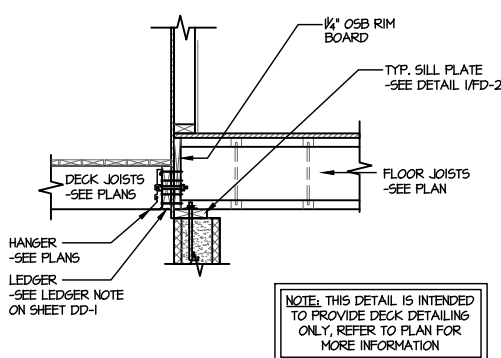
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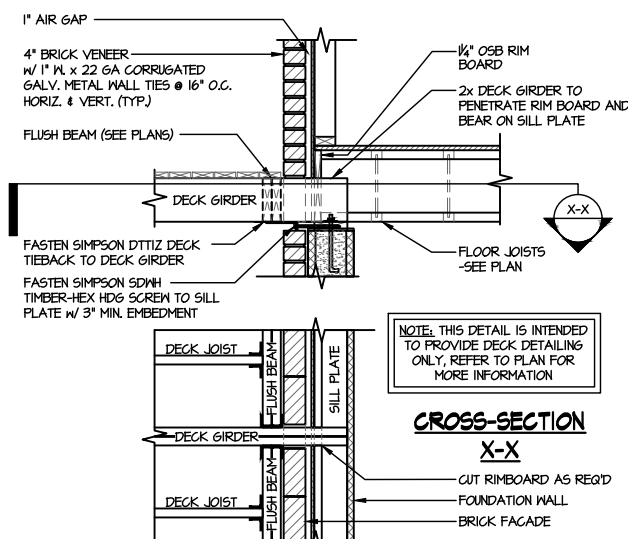
FOUNDATION DETAILS  
RUSSELL  
WIND SPEED < 115 MPH NORTH CAROLINA

**LEDGER NOTE**

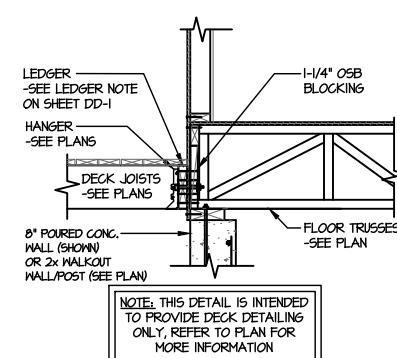
- **LEDGER TO END TRUSS:**  
-FASTEN 2x LEDGER (MATCH D.J.) TO END TRUSS VERTICALS w/ (1) 1/2" DIA. THRU BOLT + (4) 2 1/2"x0.135" NAILS @ 16" O.C. PACK OUT END TRUSS AS REQ'D FOR LEDGER FASTENING.
- **LEDGER TO RIMBOARD/BLOCKING:**  
-FASTEN 2x LEDGER (MATCH D.J.) TO RIMBOARD/BLOCKING w/ (1) 1/2" DIA. THRU BOLT + (4) 2 1/2"x0.135" NAILS @ 16" O.C.
- **PROVIDE (2) BOLTS IN END (2) JOIST BAYS @ EACH END OF DECK**  
-INSTALL (1) SIMPSON HB CLIP ON LAST (2) DECK JOISTS @ EACH END OF DECK, CONNECTING SIDE OF JOIST TO TOP OF LEDGER (IRC R502.2.2)
- **ALT. LEDGER SPEC:**  
FASTEN 2x10 LEDGER TO RIMBOARD w/ (2) 1/4" DIA. X 3 1/2" LONG SIMPSON SDS SCREENS @ 16" O.C.
- NOT APPLICABLE AT BRICK CONDITIONS



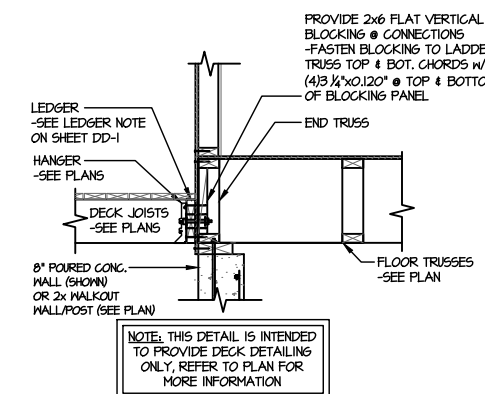
1 TYPICAL DECK CONNECTION @ CRAWLSPACE  
SCALE: 3/8"=1'-0"



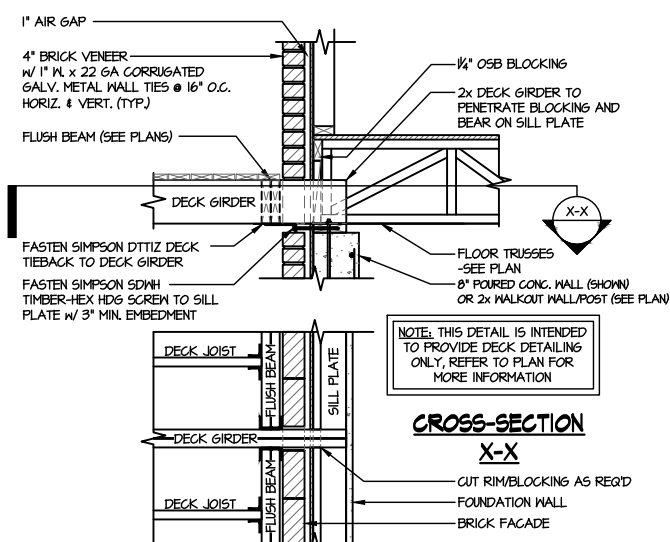
2 TYPICAL DECK CONNECTION @ CRAWLSPACE w/ BRICK  
SCALE: 3/8"=1'-0"



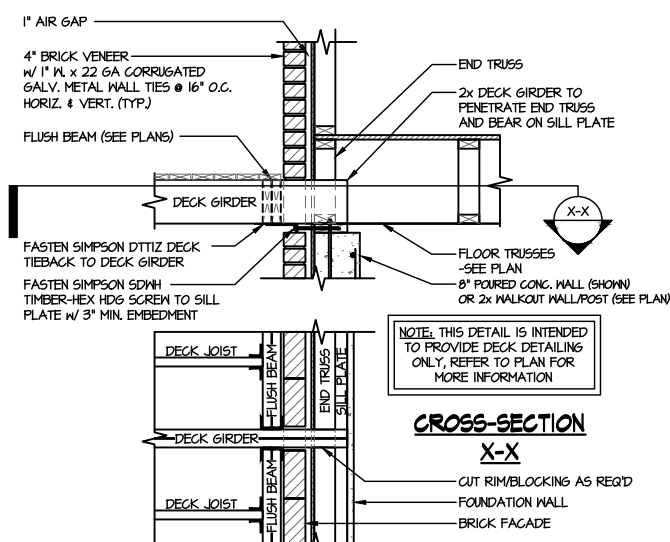
3 TYPICAL DECK CONNECTION @ BASEMENT  
SCALE: 3/8"=1'-0" PERPENDICULAR FRAMING



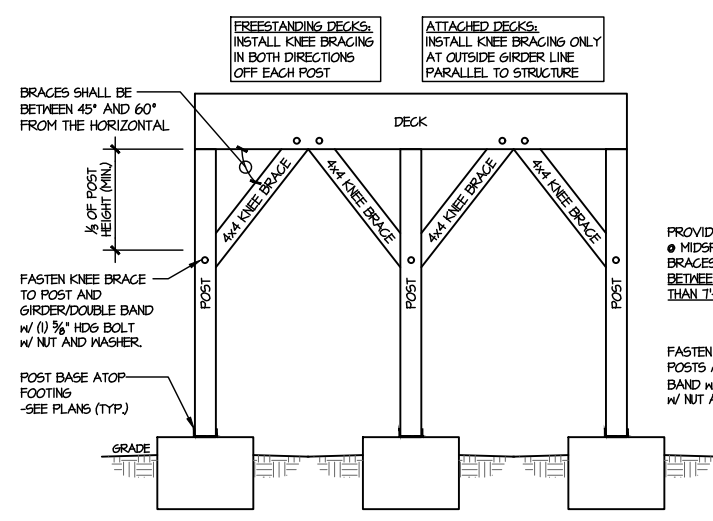
4 TYPICAL DECK CONNECTION @ BASEMENT  
SCALE: 3/8"=1'-0" PARALLEL FRAMING



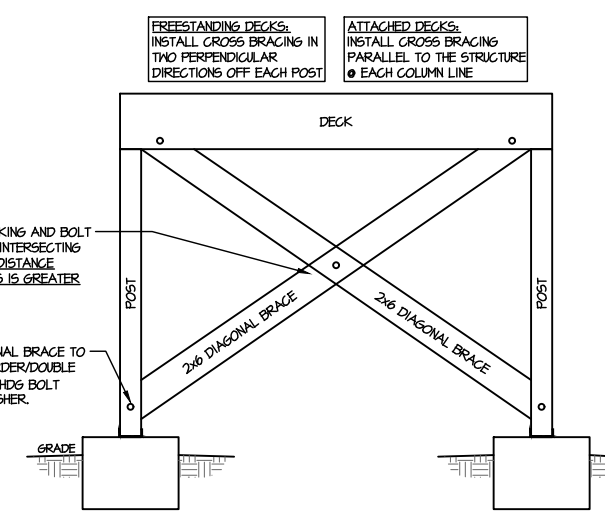
5 TYPICAL DECK CONNECTION @ BASEMENT w/ BRICK  
SCALE: 3/8"=1'-0" PERPENDICULAR FRAMING



6 TYPICAL DECK CONNECTION @ BASEMENT w/ BRICK  
SCALE: 3/8"=1'-0" PARALLEL FRAMING

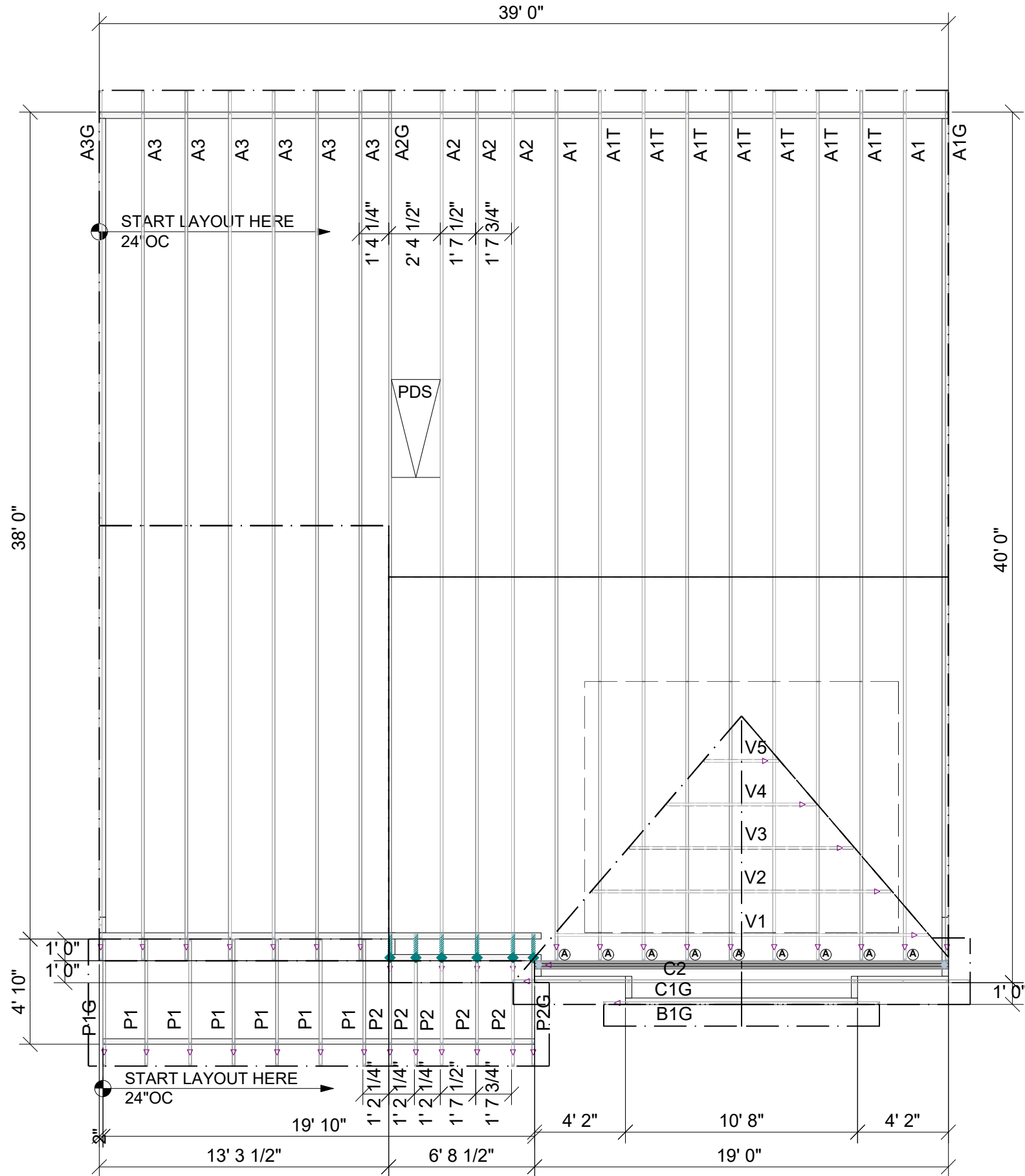


A TYPICAL LATERAL BRACING DETAILS FOR DECKS GREATER THAN 4' HIGH  
SCALE: NTS



CROSS BRACING

THIS IS A TRUSS PLACEMENT DIAGRAM (TPD) ONLY; NOT AN ENGINEERED DOCUMENT. Trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual truss design drawings (TDD's) for each truss design identified on the TPD. The Contractor is responsible for the temporary bracing of the roof and floor system, and requirements for the permanent restraint/bracing of truss systems may be met by following the methods outlined in ANSI-TPI 1-2014 - 2.3.3. The design of the support structure including but not limited to headers, beams, walls, and columns is also the responsibility of the building designer. For general guidance regarding installation and bracing, consult "Building Component Safety Information" (BCSI) available from the SBC Association (www.sbcassociation.com). It is the responsibility of the General Contractor to verify that the provided component layout matches the final intended construction plans, loading conditions, and use. If they do not, it is the responsibility of the General Contractor to notify UFP and provide plans containing the latest specifications and designs. UFP will not be responsible for plan changes by others after final approval of shop drawings, or for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" MANUFACTURED TRUSSES IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED PROFESSIONAL DESIGNATED BY UFP. The Framing is responsible to verify all dimensions, including adjusting member spacing within tolerances to allow for the drop and rise of plumbing/HVAC, unless noted otherwise. Truss-to-wall connections, if shown, are for uplift only and do not consider lateral loads. All connectors on this project are to be installed per the connector manufacturer's specifications. All connectors shown that are not truss-to-truss are suggestions only and are to be verified by the Building Designer or Engineer of Record for suitability to this particular project. UFP accepts no responsibility for the specific application or suitability of any connector that is not truss-to-truss as they apply to this specific structure.



**\*\*NOTE\*\***  
 (4) LUS26 HANGERS TO BE USED @ PDS HEADERS (NOT SHOWN)  
 ADD 2X4 BLOCKING IN FIELD FOR ROOF SHEATHING AND DRYWALL @ PULL DOWN STAIR AREA AS NEEDED

Roof Hanger List			
MARK	TYPE	DESCRIPTION	QTY
(A)	HUS26	FACE MOUNT HANGER	9

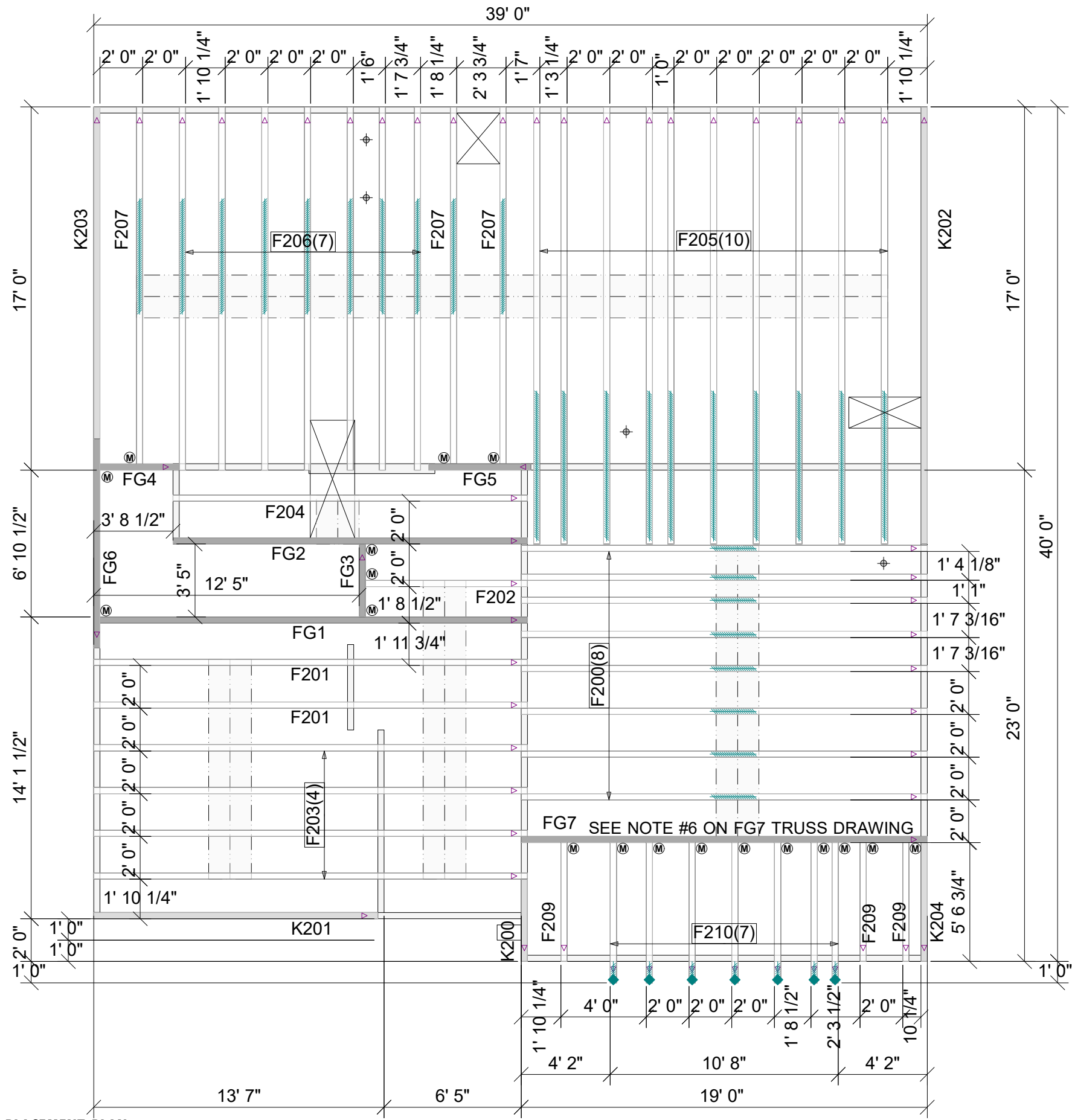
**ROOF PLACEMENT PLAN**

△ INDICATES LEFT END OF TRUSS SCALE: N.T.S

<b>ROOF AREA:</b> 1902.95 ft <sup>2</sup> sqft	<b>RIDGE LINE:</b> 53.25 ft	<b>VALLEY LINES:</b> 32.87 ft	<b>HIP LINES:</b> 0 ft	<b>THESE VALUES ARE APPROXIMATE ONLY</b>																																	
<b>RUSSELL C RF</b>		<b>MUNGO HOMES</b>																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REVISIONS</th> <th>DESCRIPTION</th> <th>DSN</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>					REVISIONS	DESCRIPTION	DSN																														
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<b>DESIGNER</b> LJP <b>LAYOUT DATE</b> 11/21/2024 <b>ARCH DATE</b> - <b>STRUC DATE</b> -		<b>UFP SITE BUILT</b> <small>A UFP INDUSTRIES COMPANY</small> Burlington, NC    Locust, NC Chesapeake, VA    Liberty, NC Clinton, NC    Ooltewah, TN Conway, SC    Pearisburg, VA Jefferson, GA    Stanfield, NC Customer Service (800) 476-9356																																			
<b>JOB #:</b> 24111467																																					

THIS IS A TRUSS PLACEMENT DIAGRAM (TPD) ONLY; NOT AN ENGINEERED DOCUMENT. Trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual truss design drawings (TDD's) for each truss design identified on the TPD. The Contractor is responsible for the temporary bracing of the roof and floor system, and requirements for the permanent restraint/bracing of truss systems may be met by following the methods outlined in ANSI-TPI 1-2014 - 2.3.3. The design of the support structure including but not limited to headers, beams, walls, and columns is also the responsibility of the building designer. For general guidance regarding installation and bracing, consult "Building Component Safety Information" (BCSI) available from the SBC Association (www.sbcassociation.com). It is the responsibility of the General Contractor to verify that the provided component layout matches the final intended construction plans, loading conditions, and use. If they do not, it is the responsibility of the General Contractor to notify UFP and provide plans containing the latest specifications and designs. UFP will not be responsible for plan changes by others after final approval of shop drawings, or for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" MANUFACTURED TRUSSES IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED PROFESSIONAL DESIGNATED BY UFP. The Framing is responsible to verify all dimensions, including adjusting member spacing within tolerances to allow for the drop and rise of plumbing/HVAC, unless noted otherwise. Truss-to-wall connections, if shown, are for uplift only and do not consider lateral loads. All connectors on this project are to be installed per the connector manufacturer's specifications. All connectors shown that are not truss-to-truss are suggestions only and are to be verified by the Building Designer or Engineer of Record for suitability to this particular project. UFP accepts no responsibility for the specific application or suitability of any connector that is not truss-to-truss as they apply to this specific structure.

**2ND FLOOR PLACEMENT PLAN**



**\*NOTE\***  
 F205 TRUSSES DESIGNED TO CANTILEVER  
 OVER REAR GARAGE WALL

**Floor Hanger List**

MARK	TYPE	QTY
(M)	THA422	18

△ INDICATES LEFT END OF TRUSS SCALE: N.T.S

THESE VALUES ARE APPROXIMATE ONLY

**TRUSS TRAX**  
 UFP CONSTRUCTION

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**MUNGO HOMES**

**RUSSELL C 2ND FLR**

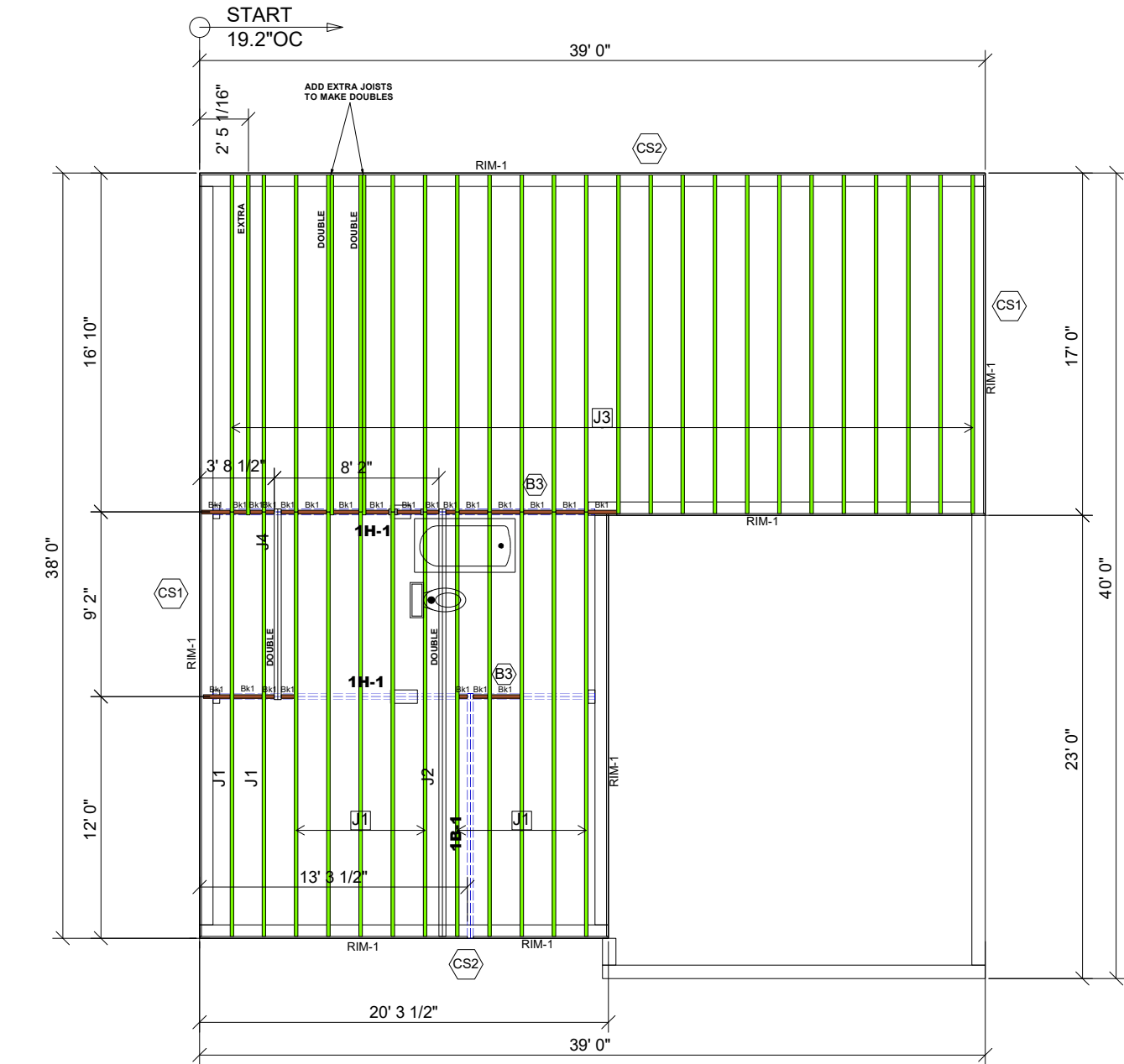
**ROOF AREA: 0 ft² sqft** **RIDGE LINE: 0 ft** **VALLEY LINES: 0 ft** **HIP LINES: 0 ft**

DATE	REVISIONS	DESCRIPTION	DSN

DESIGNER LJP  
 LAYOUT DATE 11/21/2024  
 ARCH DATE -  
 STRUC DATE -

JOB #: 24111467F2

THIS IS AN ENGINEERED WOOD PRODUCT (EWP) MEMBER PLACEMENT DIAGRAM ONLY; NOT AN ENGINEERED DOCUMENT. EWP members are designed as individual building components to be incorporated into the building design at the specification of the building designer. The Contractor is responsible for the temporary bracing of the floor system, and the building designer is responsible for the permanent bracing and blocking of the floor system and the overall structure. The design of the support structure including but not limited to headers, beams, walls, and columns is also the responsibility of the building designer. UFP will not be responsible for plan changes by others after final approval of shop drawings, or for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" EWP MEMBERS IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED PROFESSIONAL DESIGNATED BY UFP. The Framing is responsible to verify all dimensions, including adjusting member spacing within tolerances to allow for the drop and rise of plumbing/HVAC, unless noted otherwise. All connectors on this project are to be installed per the connector manufacturer's specifications. All connectors shown that are not joist to joist are suggestions only and are to be verified by the Building Designer or Engineer of Record for suitability to this particular project. UFP accepts no responsibility for the specific application or suitability of any connector that is not joist to joist as they apply to this specific structure.



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	22' 0"	11 7/8" TJI@ 210	1	12	MFD
J2	22' 0"	11 7/8" TJI@ 210	2	2	MFD
J3	17' 0"	11 7/8" TJI@ 210	1	27	MFD
J4	10' 0"	11 7/8" TJI@ 210	2	2	MFD
1H-1	20' 0"	1 3/4" x 9 1/4" 2.0E Microllam® LVL	2	4	MFD
1B-1	13' 0"	1 3/4" x 11 7/8" 2.0E Microllam® LVL	2	2	MFD
RIM-1	16' 0"	1 1/8" x 11 7/8" TJI@ Rim Board	1	11	MFD
Bk1	2' 0"	11 7/8" TJI@ 210	1	23	MFD

Connector Summary			
PlotID	Qty	Manuf	Product
H1	8	Simpson	IUS2.06/11.88

• Avoid Plumbing Drops

**FIELD LOCATE PLUMBING DROPS/CAN LIGHTS, ETC... PRIOR TO JOIST SECUREMENT TO AVOID INTERFERENCE.**

LAYOUT FOR 19.2" O/C

1= 19-3/16"	9= 172-13/16"
2= 38-3/8"	10= 192"
3= 57-5/8"	11= 211-3/16"
4= 76-13/16"	12= 230-3/8"
5= 96"	13= 249-13/16"
6= 115-3/16"	14= 268-13/16"
7= 134-3/8"	15= 288"
8= 153-5/8"	

- GENERAL NOTES:**
- 1.) TOP CHORD OF JOISTS ARE PAINTED RED AT NUMBERED END. PLACE PAINTED END AS NOTED ON PLAN.
  - 2.) FOLLOW SPECIAL SPACING AND LOCATION DIMENSIONS FOR EXTRAS OR SHIFTED JOISTS AS SHOWN ON PLAN.
  - 3.) ALL INTERIOR WALL PLATES MUST BE LEVEL WITH OUTSIDE WALL TOP PLATES.
  - 4.) DO NOT STACK CONSTRUCTION LOADS ON UN-BRACED JOISTS.
  - 5.) PROVIDE SOLID SUPPORT BELOW ALL BEAM AND HEADER BEARING POINTS IN WALL AND JOIST SPACES CONTINUOUS DOWN TO THE FOUNDATION.
  - 6.) LOCATE CRIPPLE STUDS IN JOIST SPACE DIRECTLY BELOW HEADER JACKS AT ALL FIRST FLOOR EXTERIOR DOOR LOCATIONS.
  - 7.) INSTALL NAILS IN ALL HOLES PROVIDED IN JOIST HANGERS EXCEPT AT BOTTOM CHORD SEAT. PLACE A DAB OF GLUE IN THE HANGER SEAT BEFORE SETTING JOISTS.
  - 8.) IMPORTANT NOTE! NO STRUCTURAL ANALYSIS OF CONVENTIONAL HEADERS HAS BEEN CONDUCTED IF NOT NOTED. THEY ARE CONSIDERED TO BE ADEQUATE TO SUPPORT THE APPLIED LOADS.

**PLAN LEGEND**

1B-, 2B- \*INDICATES BEAM ABOVE TOP PLATE (FLUSH WITH FLOOR SYSTEM)

H-, 1H-, GDH- \*INDICATES BEAM BELOW TOP PLATE (GROUPED BELOW FLOOR SYSTEM)

\*BEAMS MAY PROTRUDE ABOVE OR BELOW DECKING OR TOP PLATE RESPECTIVELY. REFER TO DETAIL IF BEAM IS A DIFFERENT DEPTH THAN FLOOR SYSTEM

SINGLE PLY BEAM  
DASH LINE FOR EACH ADDITIONAL PLY

SHIFT SHIFT JOIST TO MISS PLUMBING, ALIGN WITH WALL OR SUPPORT FURNITURE

EXTRA A JOIST ADDED TO THE LAYOUT IN ADDITION TO THE ON CENTER JOISTS

DOUBLE TWO JOISTS SIDE BY SIDE (ONLY ASSEMBLED IF NOTED)

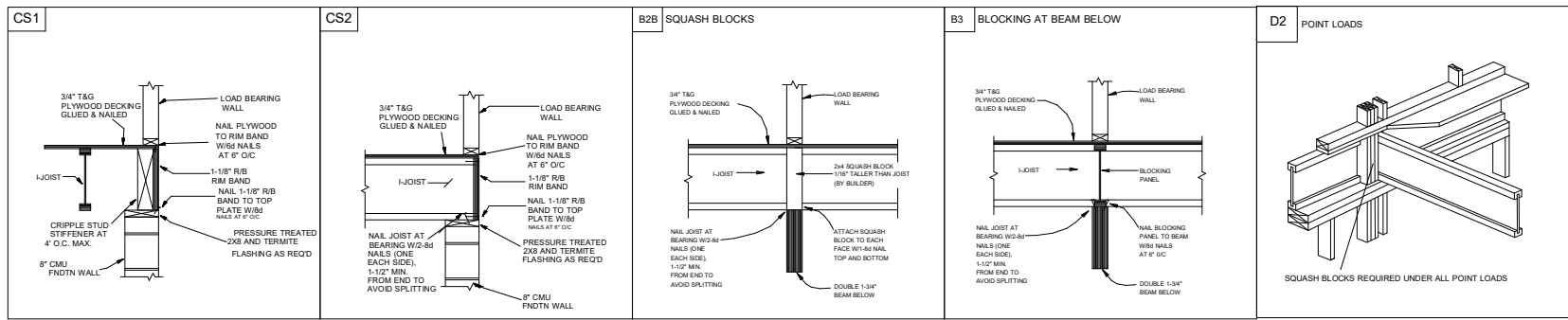
ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED

- FRAMER NOTE**
1. GLUE AND NAIL PLYWOOD SUBFLOOR TO BEAMS AND GIRDERS AT 6" O/C WHERE NO WALL IS ABOVE.
  2. FILL HANGER SEAT WITH GLUE BEFORE SETTING JOIST IN HANGER. FILL ROUND HOLES WITH NAILS.

**CRITICAL !!**  
INSTALL 2X4 SQUASH BLOCKS IN FLOOR TRUSS SPACE BELOW ALL EXTERIOR DOOR HEADER JACKS. CUT 1/16" TALLER THAN TRUSS.

FIELD VERIFY DIMENSIONS TO JOISTS LOCATED UNDER WALLS!!

# 1ST FLOOR LAYOUT



## 1ST FLOOR PLACEMENT PLAN

SCALE: 1/8"=1'

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**MUNGO HOMES**

**LANGDON PRESERVE**

**RUSSELL**

**LOT 10**

**ANGIER, NC**

REVISIONS	DESCRIPTION	DSN
DATE		

DESIGNER GB1  
LAYOUT DATE 11/12/24  
ARCH DATE 9/6/24  
STRUC DATE 9/6/24  
JOB #: 24111467F1