

# STONEFIELD-RALE

# RALEIGH - LOT 00.0114 BLAKE POND

(MODEL# 1635)

## ELEVATION 4 - GR

The logo for DRB HOMES. The letters "DRB" are in a large, bold, black sans-serif font. Below them, the word "HOMES" is written in a smaller, blue, sans-serif font.

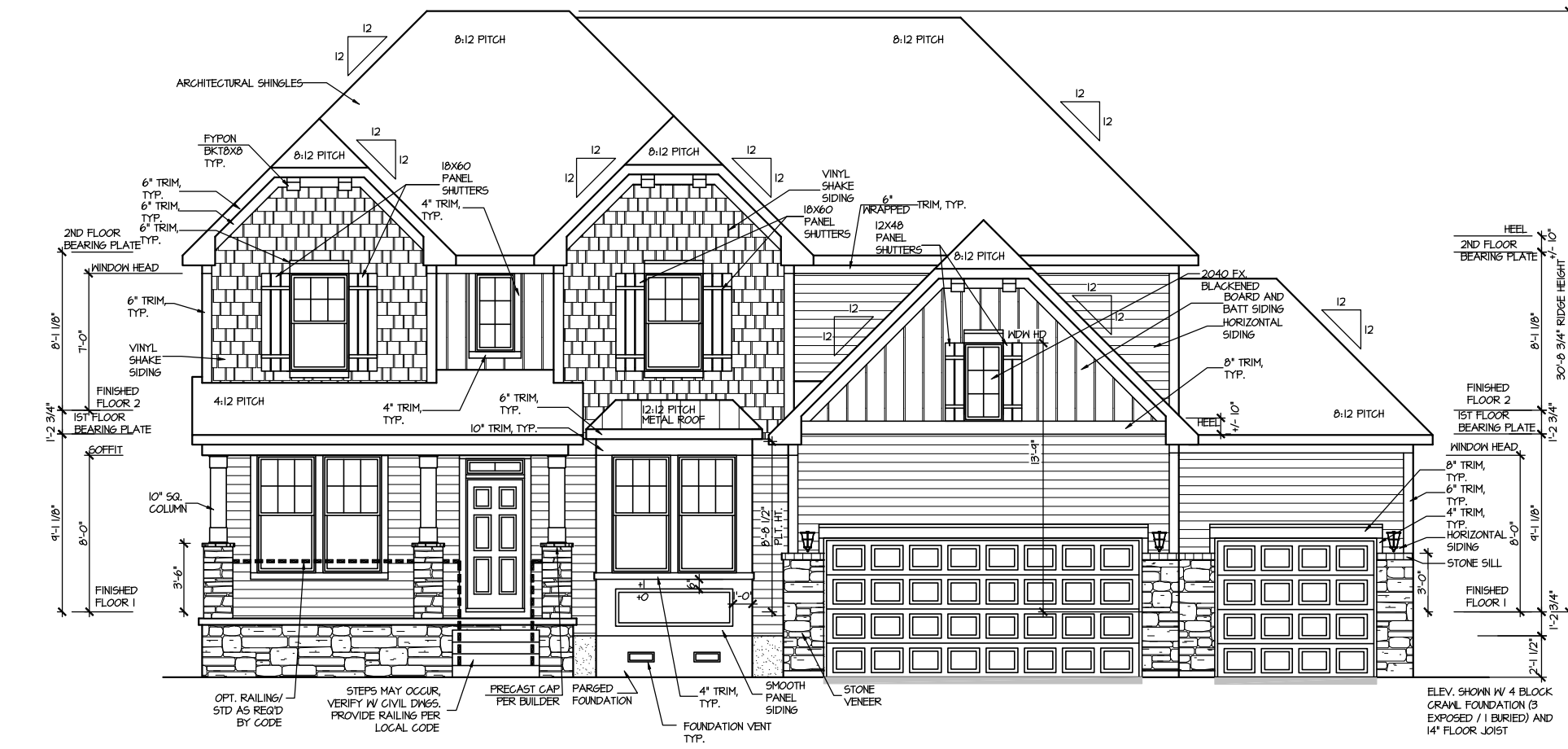
# 15 Celtic Lane

[illegible][illegible][illegible]

FILE: Lot\_00.0114.dwg DATE: 2/24/2025 5:47 PM

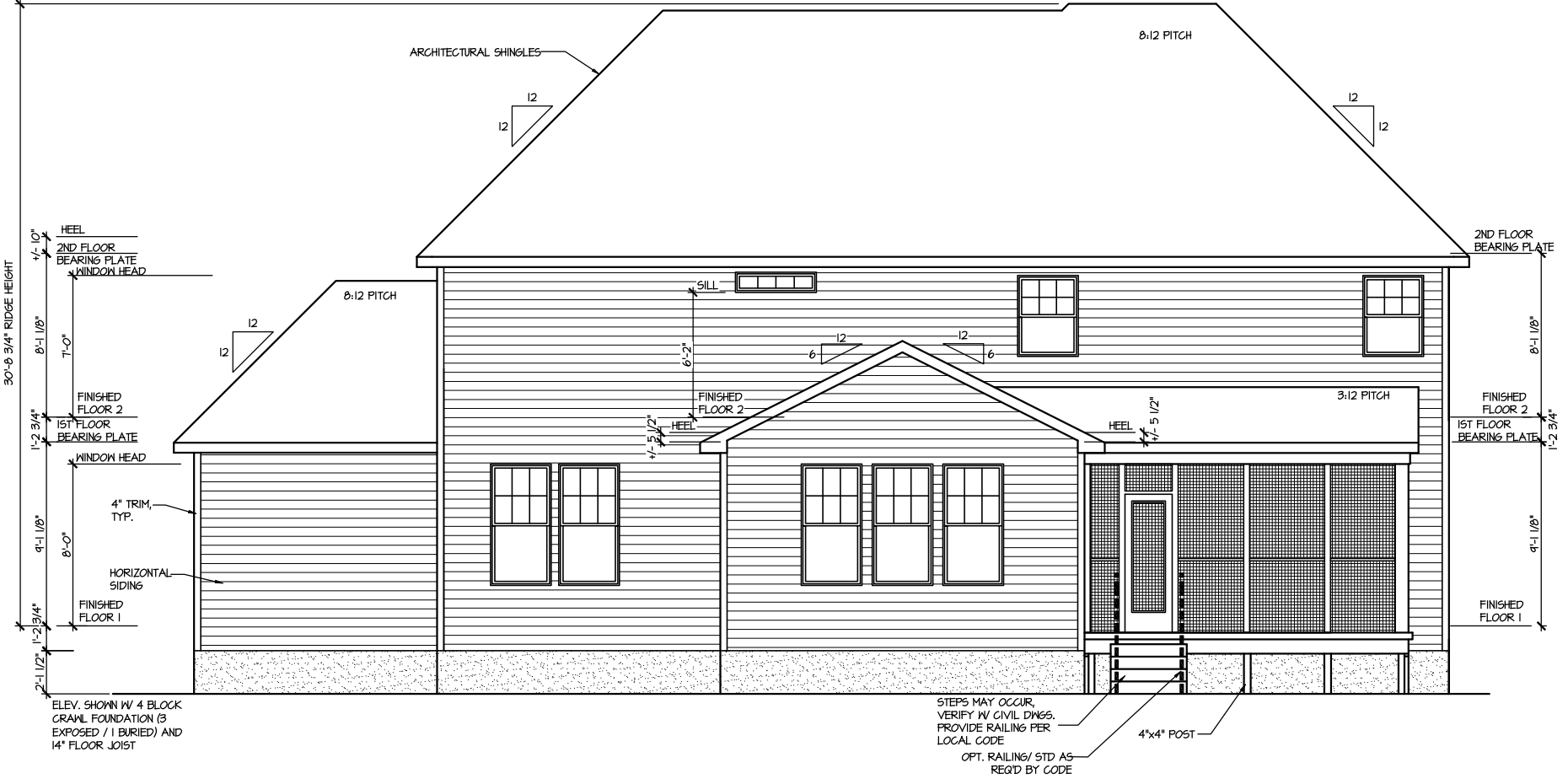
FRONT ELEVATION 4

SCALE: 1/8" = 1'-0"



REAR ELEVATION 4

SCALE: 1/8" = 1'-0"



MASTER PLAN INFORMATION			UPDATED DATE
REVISION	DATE		
3-RALE	07-31-2024		09-12-2024

DRAWN BY:	ITS
DATE:	02/24/2025
PLAN NO.	1635

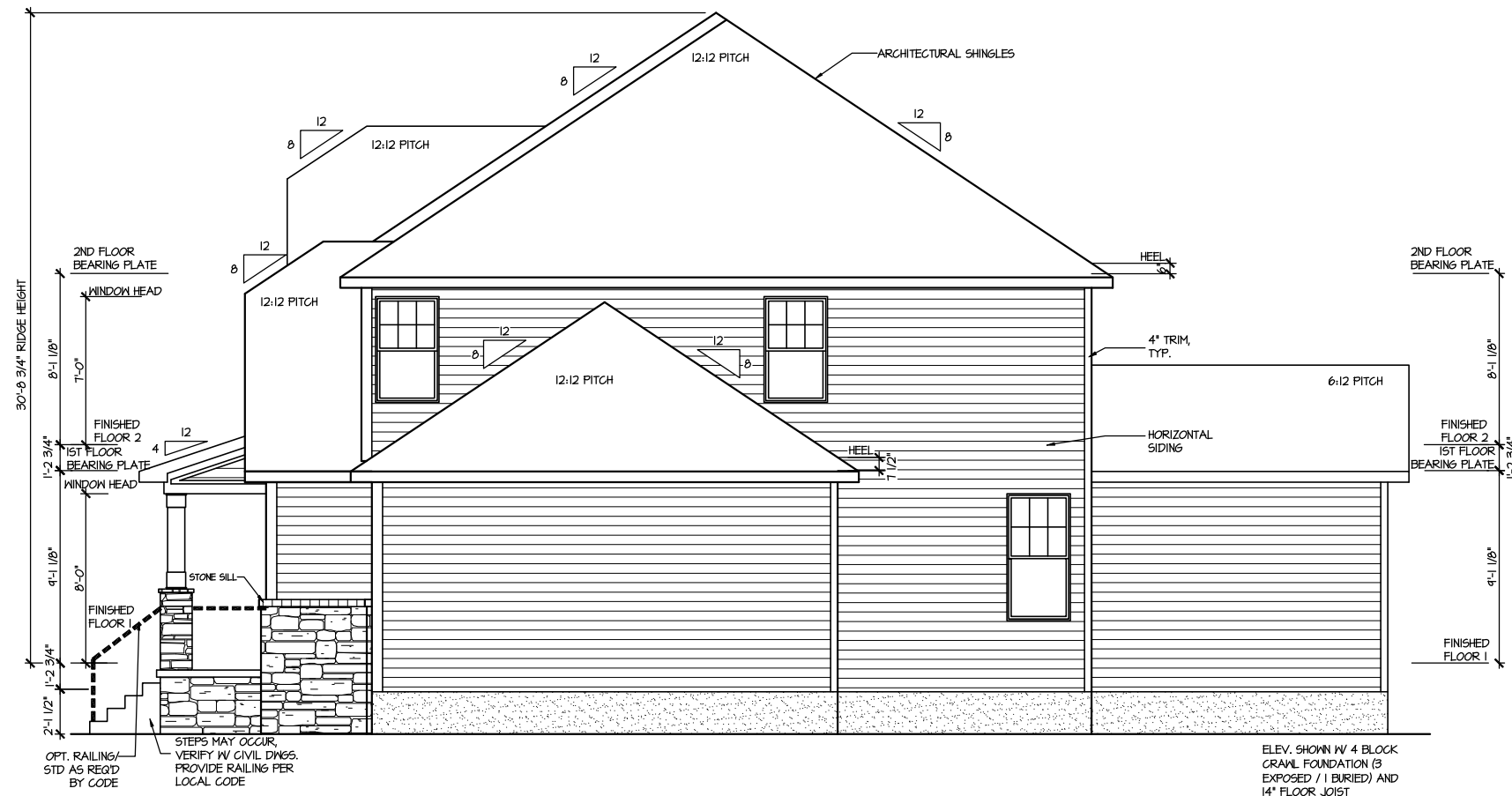


HOUSE NAME:	STONEFIELD
DRAWING TITLE	FRONT & REAR ELEVATIONS

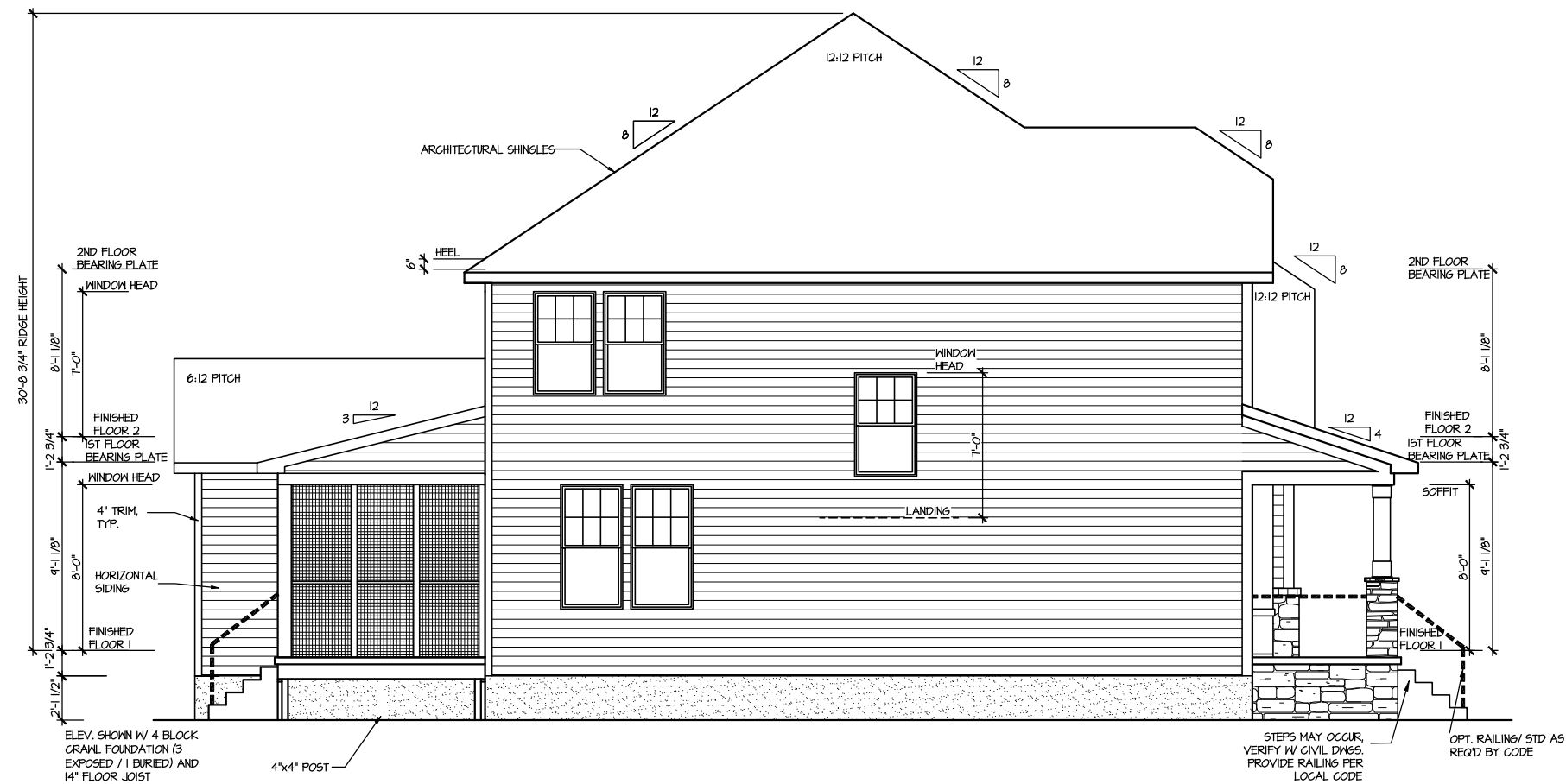
SHEET No.	A.1
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FILE: Lot\_00.0114.dwg DATE: 2/24/2025 5:47 PM

RIGHT ELEVATION 4  
SCALE: 1/8" = 1'-0"



LEFT ELEVATION 4  
SCALE: 1/8" = 1'-0"



MASTER PLAN INFORMATION

REVISION	DATE	UPDATED DATE
3-RALE	07-31-2024	09-12-2024

DRAWN BY: ITS

DATE: 02/24/2025

PLAN NO. 1635

DRB  
HOMES

HOUSE NAME: STONEFIELD

DRAWING TITLE

RIGHT & LEFT ELEVATIONS

SHEET No.

A1.2

ATTIC VENT CALCULATION FOR PLAN '4'

UPPER ROOF VENTILATION CALCULATIONS:

ROOF AREA 1 = 1742 SQ. FT.  
OVERALL REQUIRED VENTILATION:  
1 TO 150 = 11.65 SQ. FT.  
1 TO 300 = 3.47 SQ. FT.  
50% IN TOP THIRD = 2.987 SQ. FT. (1 TO 300)  
NET FREE AREA OF VENTED SOFFIT = 5.7 SQ. IN / LINEAR FT.  
NET FREE AREA OF RIDGE VENT = 10 SQ. IN / LINEAR FT.  
LOWER VENTING (BOTTOM 2/3 RDS)  
62 LINEAR FEET OF SOFFIT X 5.7 SQ. IN. = 3245 SQ. FT.  
UPPER VENTING (TOP 1/3 RD)  
24 LINEAR FEET OF RIDGE X 10 SQ. IN. = 3 SQ. FT.  
3 SQ. FT. AT 50%  
(1 TO 300 ALLOWED)

UPPER ROOF VENTILATION CALCULATIONS:

ROOF AREA 3 = 84 SQ. FT.  
OVERALL REQUIRED VENTILATION:  
1 TO 150 = 5.43 SQ. FT.  
1 TO 300 = 2.97 SQ. FT.  
50% IN TOP THIRD = 1.49 SQ. FT. (1 TO 300)  
NET FREE AREA OF VENTED SOFFIT = 5.7 SQ. IN / LINEAR FT.  
NET FREE AREA OF RIDGE VENT = 10 SQ. IN / LINEAR FT.  
LOWER VENTING (BOTTOM 2/3 RDS)  
23 LINEAR FEET OF SOFFIT X 5.7 SQ. IN. = 0.98 SQ. FT.  
UPPER VENTING (TOP 1/3 RD)  
8 LINEAR FEET OF RIDGE X 10 SQ. IN. = 1 SQ. FT.  
1 SQ. FT. AT 50%  
(1 TO 300 ALLOWED)

UPPER ROOF VENTILATION CALCULATIONS:

ROOF AREA 5 = 144 SQ. FT.  
OVERALL REQUIRED VENTILATION:  
1 TO 150 = 0.96 SQ. FT.  
1 TO 300 = 0.48 SQ. FT.  
50% IN TOP THIRD = 0.24 SQ. FT. (1 TO 300)  
NET FREE AREA OF VENTED SOFFIT = 5.7 SQ. IN / LINEAR FT.  
NET FREE AREA OF RIDGE VENT = 10 SQ. IN / LINEAR FT.  
LOWER VENTING (BOTTOM 2/3 RDS)  
1 LINEAR FEET OF SOFFIT X 5.7 SQ. IN. = 0.271 SQ. FT.  
UPPER VENTING (TOP 1/3 RD)  
2 LINEAR FEET OF RIDGE X 10 SQ. IN. = 0.25 SQ. FT.  
1 SQ. FT. AT 50%  
(1 TO 300 ALLOWED)

UPPER ROOF VENTILATION CALCULATIONS:

ROOF AREA 2 = 252 SQ. FT.  
OVERALL REQUIRED VENTILATION:  
1 TO 150 = 1.68 SQ. FT.  
1 TO 300 = 0.84 SQ. FT.  
50% IN TOP THIRD = 0.42 SQ. FT. (1 TO 300)  
NET FREE AREA OF VENTED SOFFIT = 5.7 SQ. IN / LINEAR FT.  
NET FREE AREA OF RIDGE VENT = 10 SQ. IN / LINEAR FT.  
LOWER VENTING (BOTTOM 2/3 RDS)  
8 LINEAR FEET OF SOFFIT X 5.7 SQ. IN. = 0.435 SQ. FT.  
UPPER VENTING (TOP 1/3 RD)  
4 LINEAR FEET OF RIDGE X 10 SQ. IN. = 0.5 SQ. FT.  
0.5 SQ. FT. AT 50%  
(1 TO 300 ALLOWED)

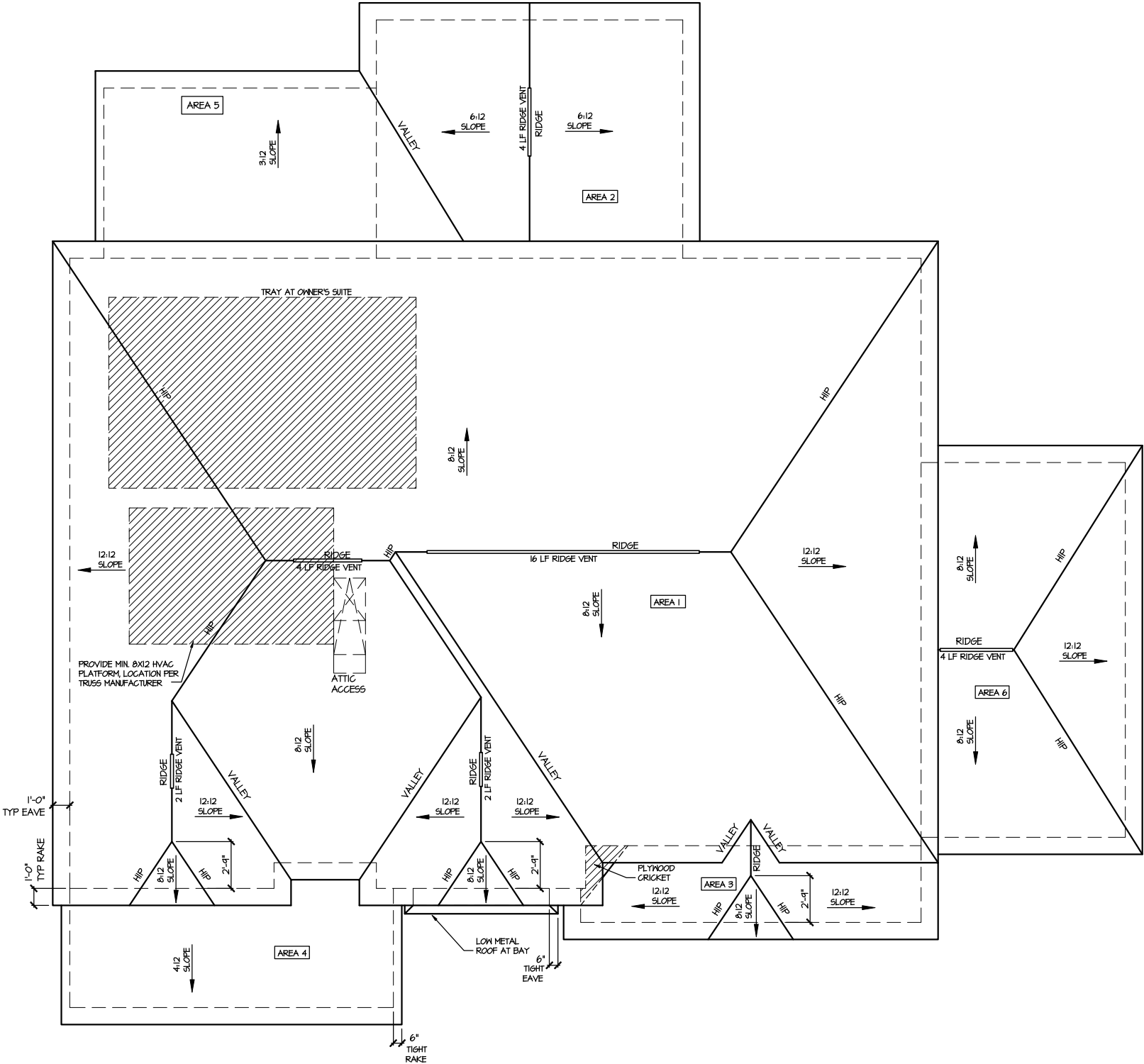
UPPER ROOF VENTILATION CALCULATIONS:

ROOF AREA 4 = 142 SQ. FT.  
OVERALL REQUIRED VENTILATION:  
1 TO 150 = 0.447 SQ. FT.  
1 TO 300 = 0.419 SQ. FT.  
50% IN TOP THIRD = 0.231 SQ. FT. (1 TO 300)  
NET FREE AREA OF VENTED SOFFIT = 5.7 SQ. IN / LINEAR FT.  
NET FREE AREA OF RIDGE VENT = 10 SQ. IN / LINEAR FT.  
LOWER VENTING (BOTTOM 2/3 RDS)  
20 LINEAR FEET OF SOFFIT X 5.7 SQ. IN. = 0.79 SQ. FT.  
UPPER VENTING (TOP 1/3 RD)  
8 LINEAR FEET OF RIDGE X 10 SQ. IN. = 1 SQ. FT.  
1 SQ. FT. AT 50%  
(1 TO 300 ALLOWED)

UPPER ROOF VENTILATION CALCULATIONS:

ROOF AREA 6 = 234 SQ. FT.  
OVERALL REQUIRED VENTILATION:  
1 TO 150 = 1.56 SQ. FT.  
1 TO 300 = 0.78 SQ. FT.  
50% IN TOP THIRD = 0.39 SQ. FT. (1 TO 300)  
NET FREE AREA OF VENTED SOFFIT = 5.7 SQ. IN / LINEAR FT.  
NET FREE AREA OF RIDGE VENT = 10 SQ. IN / LINEAR FT.  
LOWER VENTING (BOTTOM 2/3 RDS)  
10 LINEAR FEET OF SOFFIT X 5.7 SQ. IN. = 0.946 SQ. FT.  
UPPER VENTING (TOP 1/3 RD)  
4 LINEAR FEET OF RIDGE X 10 SQ. IN. = 0.5 SQ. FT.  
1 SQ. FT. AT 50%  
(1 TO 300 ALLOWED)

NOTE: ROOF PLANS SHOWN W/ MIN. REQ'D RIDGE VENT LOCATIONS.  
ACTUAL RIDGE VENT LOCATIONS AND QUANTITY PER BUILDER



ROOF PLAN ELEV. 4

SCALE: 1/8" = 1'-0"

MASTER PLAN INFORMATION			
REVISION	DATE	UPDATED DATE	
3-RALE	07-31-2024	09-12-2024	

DRAWN BY:	ITS
DATE:	02/24/2025
PLAN NO.	1635



HOUSE NAME:	STONEFIELD
DRAWING TITLE	ROOF PLAN

SHEET No.	A1.3
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ONLY VENTS ON THE FRONT ELEVATION ARE SHOWN.  
ALL OTHERS TO BE FIELD LOCATED.  
VENTS SHALL BE INSTALLED PER R322.2.2 - R322.2.2.1



DRAWN BY:	ITS
DATE:	02/24/2025
PLAN NO.	1635



HOUSE NAME:  
STONEFIELD

DRAWING TITLE  
CRAWL SPACE PLAN

SHEET No. A2.1



SHEET No. A3.



DRAWN BY: ITS
DATE: 02/24/2025
PLAN NO. 1635



HOUSE NAME:	STONEFIELD
DRAWING TITLE	SECOND FLOOR PLAN

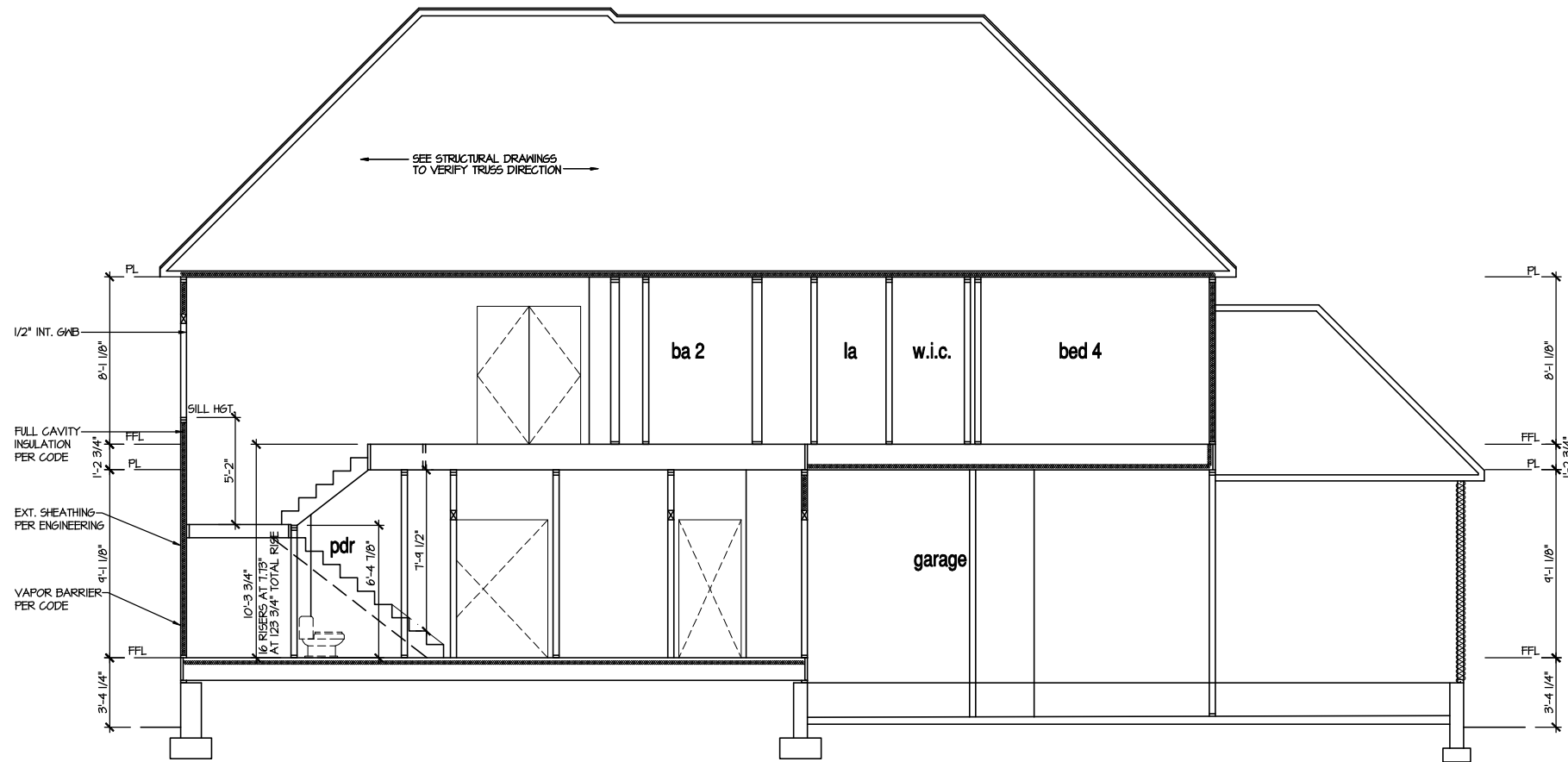
SHEET No.  
A3.2

FILE: Lot\_00.011.4.dwg DATE: 2/24/2025 5:47 PM

9'-1" STAIR NOTE:  
(USE 14" TJI WITH 3/4" PLYWOOD SUBFLOOR)  
15 TREADS AT 10" EACH VERIFY  
16 RISERS AT +/- 7.13" = 123 3/4" TOTAL  
RISE VERIFY

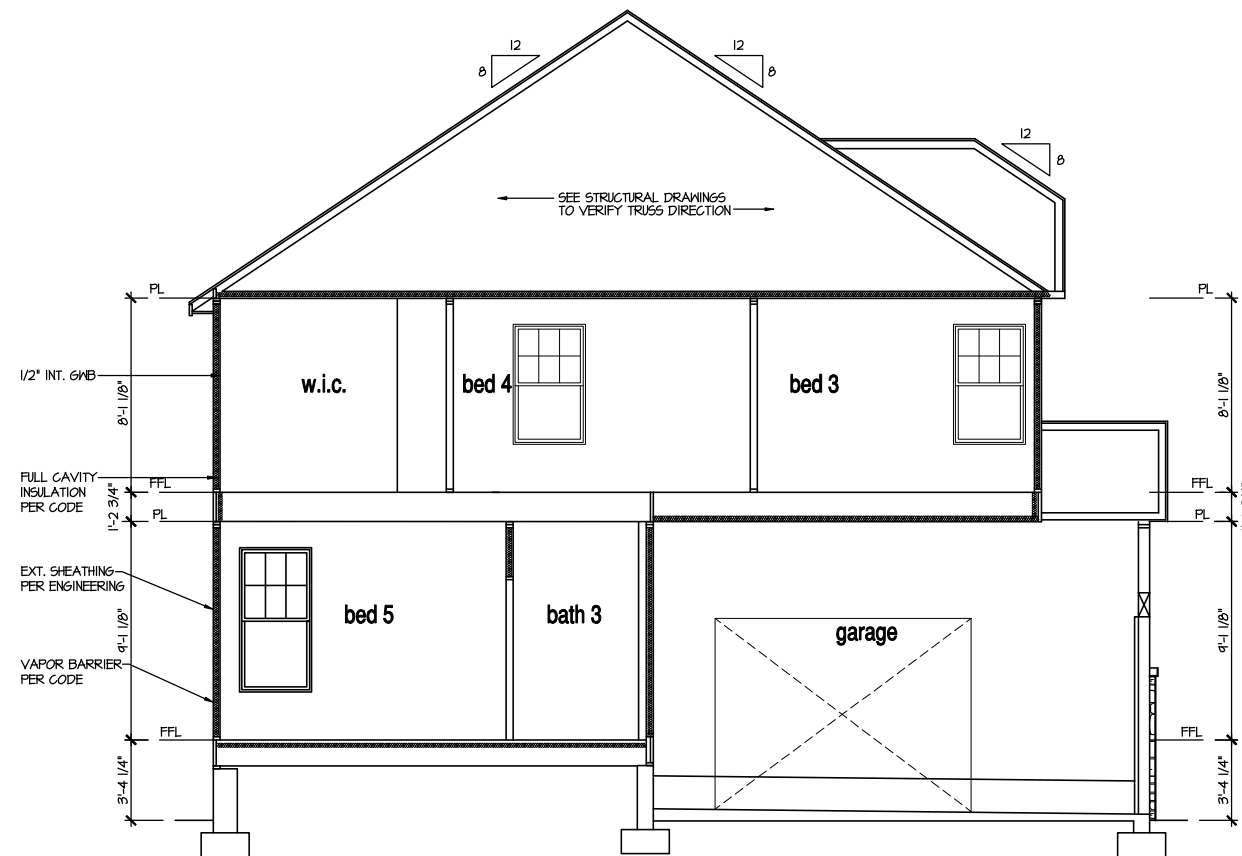
#### NOTES:

- BUILDING SECTIONS SHOWN HERE DEPICT VOLUMN SPACES WITHIN THE STRUCTURE. REFER TO STRUCTURAL DRAWINGS, TRUSS DRAWINGS, STRUCTURAL DETAILS AND CALCULATIONS BY OTHER FOR ALL STRUCTURAL INFO.
  - ROOFING: PITCHED SHINGLE ROOF. REFER TO ROOF PLAN FOR TYPICALS.
  - WOOD FLOORS: FLOOR SHEATHING OVER FLOOR JOIST. REFER TO STRUCTURAL AND TRUSS DRAWINGS BY OTHERS.
  - INSULATION:
    - EXTERIOR WALLS: R-13 BATTS MINIMUM. VERIFY
    - CEILING WITH ATTIC ABOVE: R-30 BATTS MINIMUM. VERIFY
    - FLOOR OVER GARAGE: R-14 BATTS MINIMUM. VERIFY
    - ATTIC KNEEWALL: R-14 BATTS MINIMUM. VERIFY
- PER STATE RESIDENTIAL CODE COMPLIANCE METHOD TO BE DETERMINED BY BUILDER.



#### SECTION I

SCALE: 1/8" = 1'-0"



#### SECTION 2

SCALE: 1/8" = 1'-0"

#### MASTER PLAN INFORMATION

REVISION	DATE	UPDATED DATE
3-RALE	07-31-2024	09-12-2024

DRAWN BY: ITS

DATE: 02/24/2025

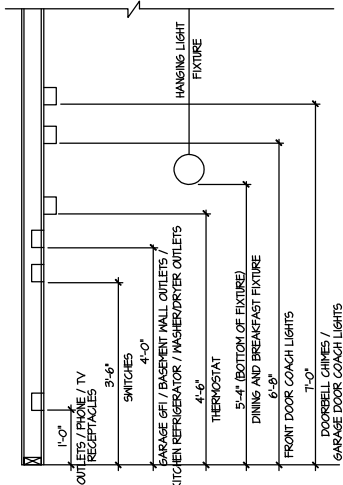
PLAN NO. 1635

**DRB**  
**HOMES**

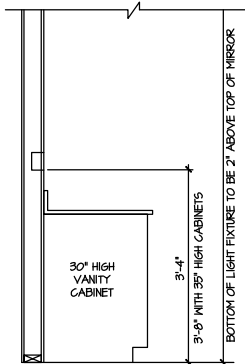
HOUSE NAME: **STONEFIELD**  
DRAWING TITLE: **BUILDING SECTION**

SHEET No.

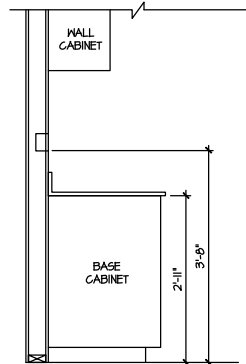
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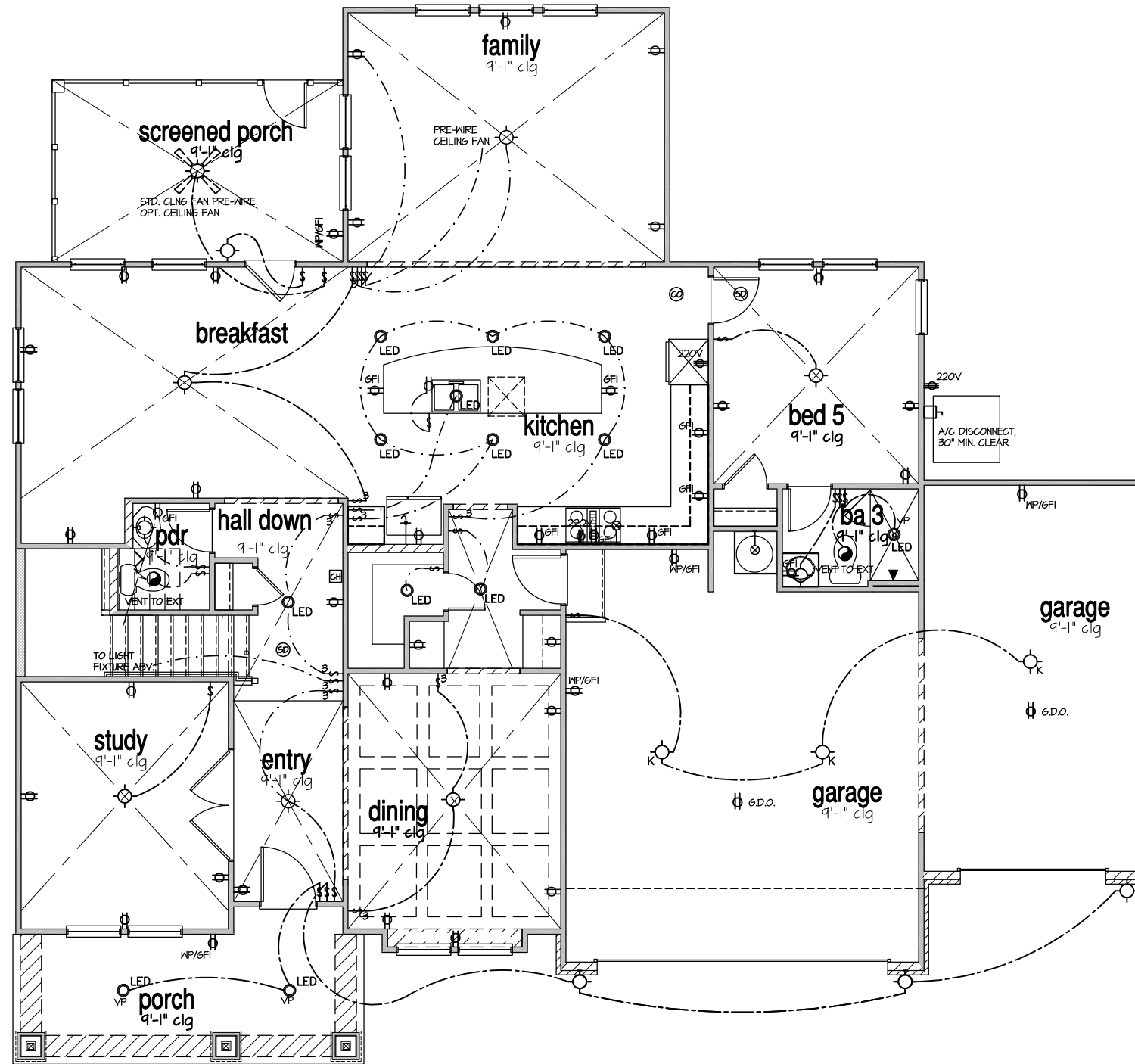
STANDARD ELECTRICAL BOX HEIGHTS



SWITCH AND RECEPTACLE BOXES OVER BATH CABINETS



SWITCH AND RECEPTACLE BOXES OVER KITCHEN CABINETS



NOTES:

- PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS AND CO2 DETECTORS AS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
- PROVIDE AND INSTALL GROUND FAULT CIRCUIT-INTERRUPTERS (GFI) AS REQUIRED BY NATIONAL ELECTRICAL CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
- ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK-UPS/CUTOFFS.
- HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.
- ALL ELECTRICAL AND MECHANICAL EQUIPMENT (FURNACES, A/C UNITS, ELECTRICAL PANELS, SANITARY SUMP PITS, DRAIN TILE SUMP, AND WATER HEATERS) ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS.
- PROVIDE POWER, LIGHT AND SWITCH AS REQUIRED FOR ATTIC FURNACE PER CODE AND MANUFACTURER'S WRITTEN INSTRUCTIONS.
- CLOSET LIGHTS TO BE FLOURESCENT FIXTURES FOR NC & INCANDESCENT CLG. MOUNTED FIXTURES FOR ALL OTHER AREAS.

LEGEND:

AFCI DUPLEX OUTLET	CEILING MOUNTED INCANDESCENT LIGHT FIXTURE	CHIMES	CEILING FAN (PROVIDE ADEQUATE SUPPORT)
WEATHERPROOF GFI AFCI DUPLEX OUTLET	KEYLESS LIGHT	PUSHBUTTON SWITCH	CEILING FAN WITH INCANDESCENT LIGHT FIXTURE (PROVIDE ADEQUATE SUPPORT)
GFI	GROUND-FAULT CIRCUIT-INTERRUPTER (GFI) DUPLEX OUTLET	110V SMOKE DETECTOR w/ BATTERY BACKUP	GAS SUPPLY WITH VALVE
HALF-SWITCHED AFCI DUPLEX OUTLET	RECESSED LIGHT FIXTURE	CO2 DETECTOR	HOSE BIBB
220V 220 VOLT AFCI OUTLET	LED SURFACE MOUNTED	THERMOSTAT	1/4" WATER STUB OUT
REINFORCED JUNCTION BOX	LED STRIP FIXTURE	TELEPHONE	
WALL SWITCH	EXHAUST FAN (VENT TO EXTERIOR)	TELEVISION	
THREE-WAY SWITCH	EXHAUST FAN/LIGHT COMBINATION (VENT TO EXTERIOR)	ELECTRIC METER	
FOUR-WAY SWITCH	TECH HUB SYSTEM	ELECTRIC PANEL	
LED STRIP FIXTURE		DISCONNECT SWITCH	

ELECTRICAL PLAN  
FIRST FLOOR - ELEV. 4

SCALE: 1/8" = 1'-0"

MASTER PLAN INFORMATION

DATE  
07-31-2024

REVISION  
3-RALE

UPDATED DATE  
09-12-2024

DRAWN BY:  
ITS

DATE:  
02/24/2025

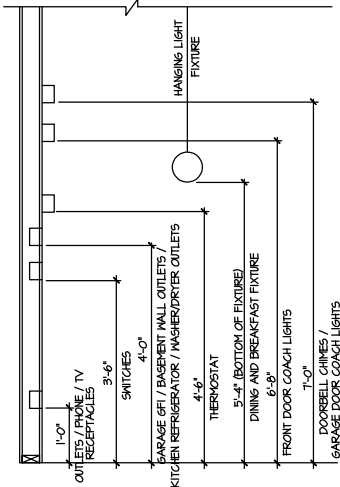
PLAN NO.  
1635

HOUSE NAME:  
STONEFIELD

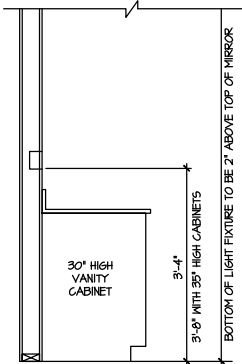
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FIRST FLOOR ELECTRICAL

SHEET No.

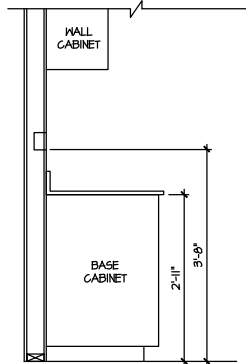
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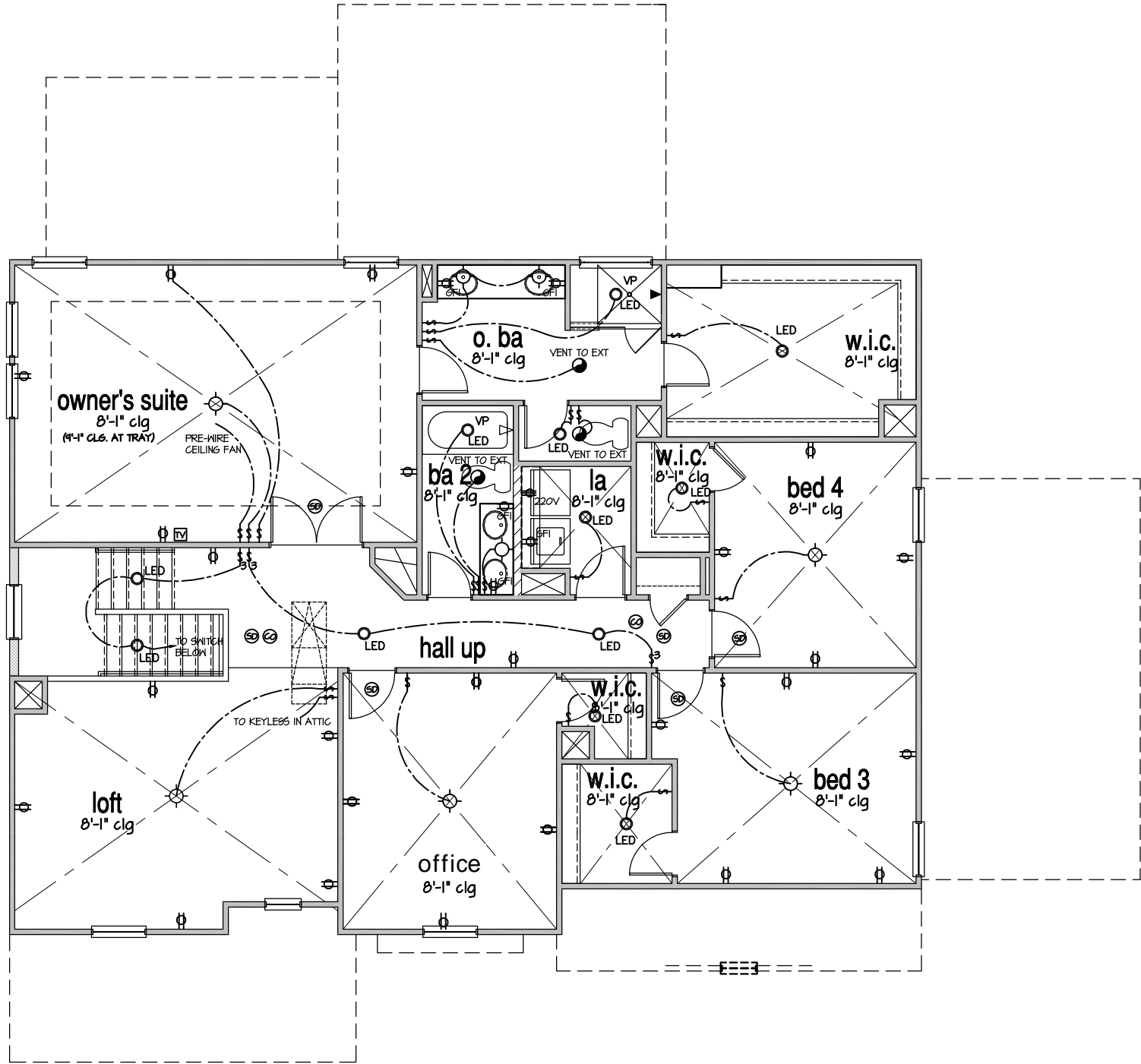
STANDARD ELECTRICAL BOX HEIGHTS



SWITCH AND RECEPTACLE BOXES OVER BATH CABINETS



SWITCH AND RECEPTACLE BOXES OVER KITCHEN CABINETS



- NOTES:
- PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS AND CO2 DETECTORS AS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
  - PROVIDE AND INSTALL GROUND FAULT CIRCUIT-INTERRUPTERS (GFI) AS REQUIRED BY NATIONAL ELECTRICAL CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
  - ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK-UPS/CUTOFFS.
  - HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.
  - ALL ELECTRICAL AND MECHANICAL EQUIPMENT (FURNACES, A/C UNITS, ELECTRICAL PANELS, SANITARY SUMP PITS, DRAIN TILE SUMP, AND WATER HEATERS) ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS.
  - PROVIDE POWER, LIGHT AND SWITCH AS REQUIRED FOR ATTIC FURNACE PER CODE AND MANUFACTURER'S WRITTEN INSTRUCTIONS.
  - CLOSET LIGHTS TO BE FLOURESCENT FIXTURES FOR NC & INCANDESCENT CLG. MOUNTED FIXTURES FOR ALL OTHER AREAS.

LEGEND:			
	AFGI DUPLEX OUTLET		CEILING MOUNTED INCANDESCENT LIGHT FIXTURE
	WEATHERPROOF GFI AFGI DUPLEX OUTLET		KEYLESS LIGHT
	GFI GROUND-FAULT CIRCUIT-INTERRUPTER AFGI DUPLEX OUTLET		WALL MOUNTED INCANDESCENT LIGHT FIXTURE
	HALF-SWITCHED AFGI DUPLEX OUTLET		RECESSED LIGHT FIXTURE
	220V 220 VOLT AFGI OUTLET		LED SURFACE MOUNTED
	REINFORCED JUNCTION BOX		EXHAUST FAN (VENT TO EXTERIOR)
	WALL SWITCH		EXHAUST FAN/LIGHT COMBINATION (VENT TO EXTERIOR)
	THREE-WAY SWITCH		TECH HUB SYSTEM
	FOUR-WAY SWITCH		
	LED STRIP FIXTURE		
	CHIMES		CEILING FAN (PROVIDE ADEQUATE SUPPORT)
	PUSHBUTTON SWITCH		CEILING FAN WITH INCANDESCENT LIGHT FIXTURE (PROVIDE ADEQUATE SUPPORT)
	110V SMOKE DETECTOR W/ BATTERY BACKUP		GAS SUPPLY WITH VALVE
	CO2 DETECTOR		HOSE BIBB
	THERMOSTAT		1/4" WATER STUB OUT
	TELEPHONE		
	TELEVISION		
	ELECTRIC METER		
	ELECTRIC PANEL		
	DISCONNECT SWITCH		

ELECTRICAL PLAN  
SECOND FLOOR - ELEV. 4  
SCALE: 1/8" = 1'-0"

MASTER PLAN INFORMATION		UPDATED DATE
REVISION	DATE	09-12-2024
3-RALE	07-31-2024	

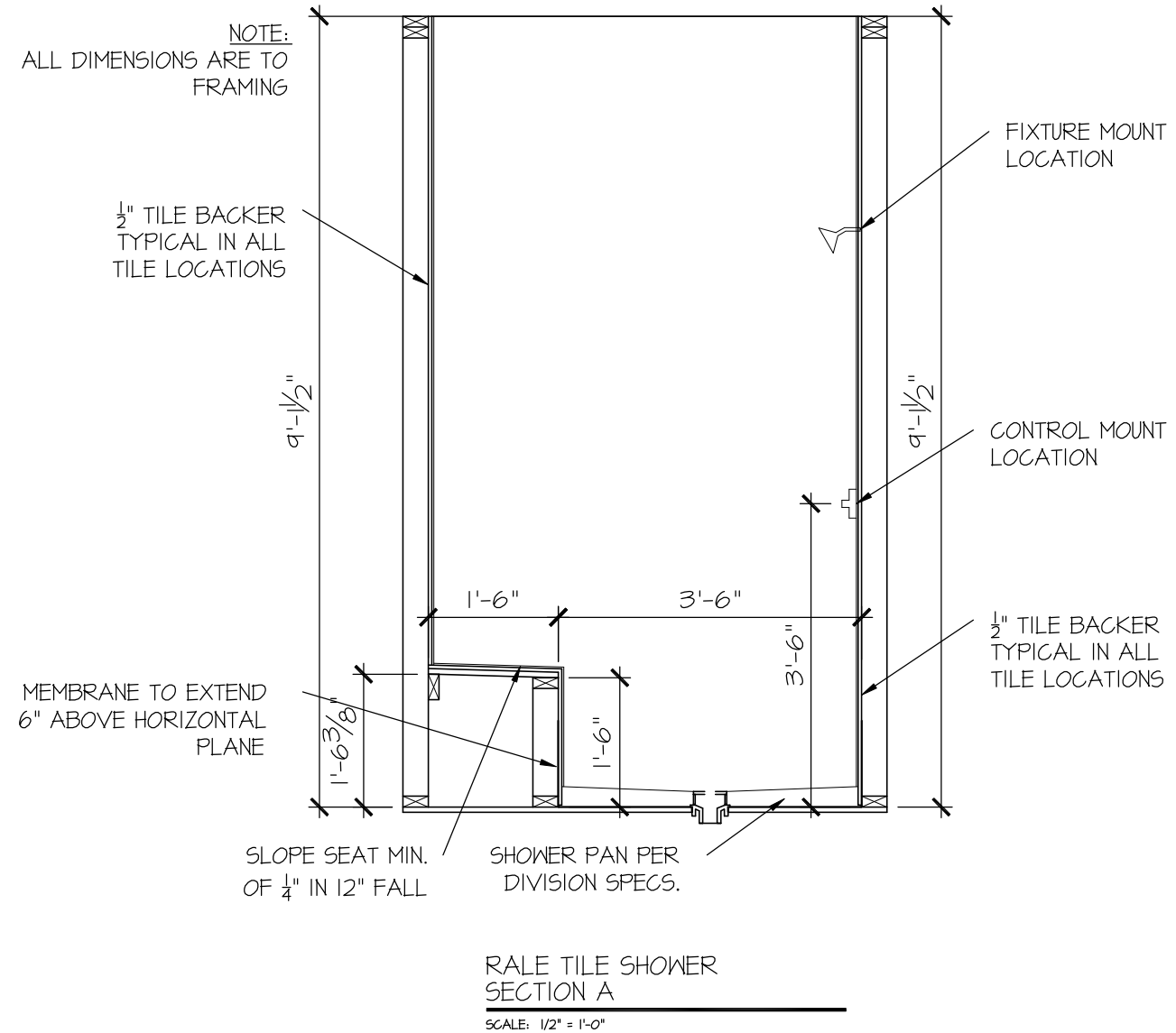
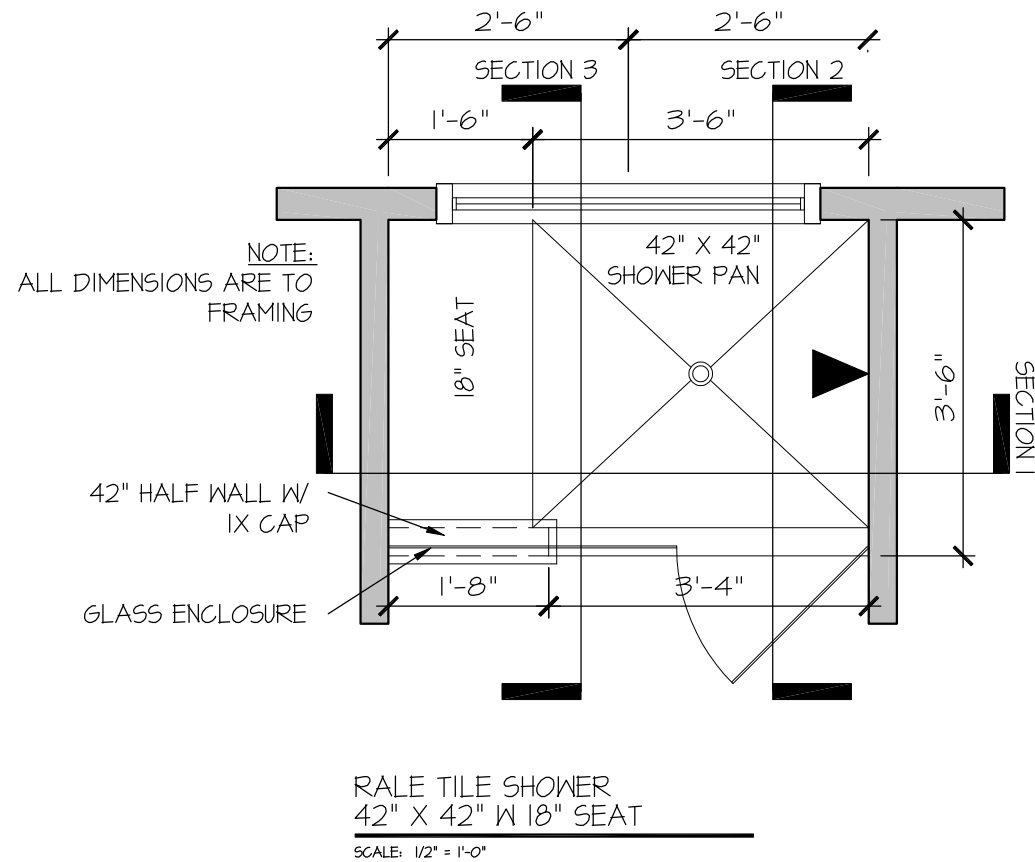
DRAWN BY:	ITS
DATE:	02/24/2025
PLAN NO.	1635

DRB  
HOMES

HOUSE NAME:  
STONEFIELD  
DRAWING TITLE  
SECOND FLOOR ELECTRICAL

SHEET No.  
1.2

FILE: RALE TILE SHOWER DETAIL 8-2022.dwg DATE: 09-19-2022



CONSULTANT LOGO

SEAL

DRAWN BY:  
L. BEAVERS  
DATE: 9/1/22  
PLAN NO.  
11 X 17 SCALE  
24 X 36 SCALE

**DRB**  
HOMES

HOUSE NAME:

DRAWING TITLE

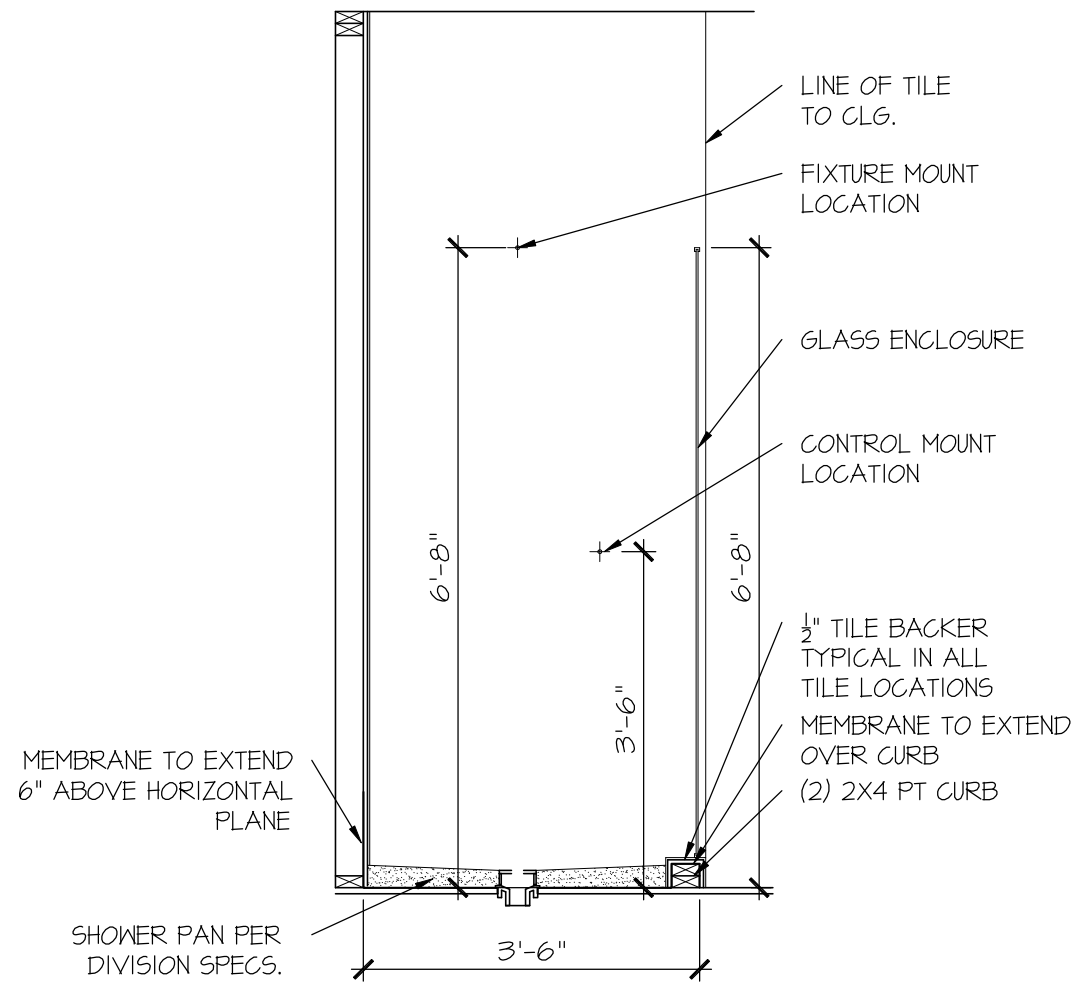
RALE TILE SHOWER DETAIL

SHEET No.

0111

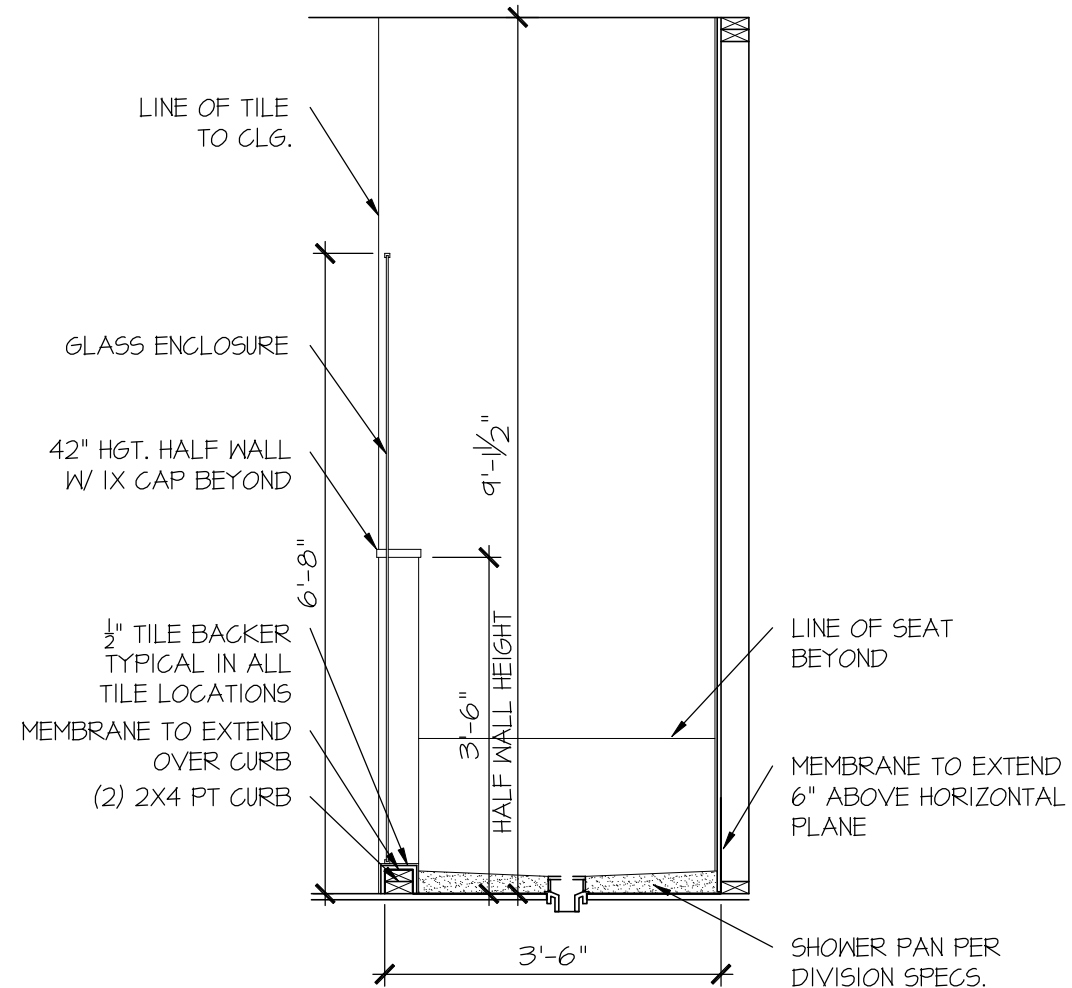


FILE: RALE TILE SHOWER DETAIL 8-2022.dwg DATE: 09-19-2022



RALE TILE SHOWER  
SECTION B

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



RALE TILE SHOWER  
SECTION C

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

CONSULTANT LOGO

SEAL

DRAWN BY:  
L. BEAVERS  
DATE: 9/1/22  
PLAN NO.  
11 X 17 SCALE  
24 X 36 SCALE

**DRB**  
HOMES

HOUSE NAME:  
DRAWING TITLE  
RALE TILE SHOWER DETAIL

SHEET No.

01.12

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

DESCRIPTION OF BLDG. ELEMENT	3"x0.131" NAILS	3"x0.120" NAILS
JOIST TO SOLE PLATE	(3) TOENAILS	(3) TOENAILS*
SOLE PLATE TO JOIST/BLK'G.	(3) NAILS @ 4" O.C.	(3) NAILS @ 4" O.C.
STUD TO SOLE PLATE	(2) TOENAILS	(3) TOENAILS*
TOP OR SOLE PLATE TO STUD	(2) NAILS	(3) NAILS
RIM TO TOP PLATE	TOENAILS @ 8" O.C.	TOENAILS @ 6" O.C.*
BLK'G. BTWN. JOISTS TO TOP PL.	(3) TOENAILS	(3) TOENAILS*
DOUBLE STUD	NAILS @ 24" O.C.	NAILS @ 16" O.C.
DOUBLE TOP PLATE	NAILS @ 24" O.C.	NAILS @ 16" O.C.
DOUBLE TOP PLATE LAP SPLICE		
DOUBLE TOP PLATE LAP SPLICE	(4) NAILS IN LAPPED AREA	(11) NAILS IN LAPPED AREA
TOP PLATE LAP @ CORNERS & INTERSECTING WALLS	(2) NAILS	(2) NAILS

\* 2 1/2"x0.113" IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS. (ONLY ACCEPTABLE WHERE \* ARE SHOWN)

## MEANS &amp; 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, GUYS, 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.

## ADDITIONAL NOTES FOR TRUSS &amp; I-JOIST MANUFACTURER

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DIFFERENTIAL DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN.

TRUSSES/JOISTS SHALL BE DESIGNED SO THAT DIFFERENTIAL DEFLECTION BETWEEN ADJACENT PARALLEL TRUSSES/JOISTS OR GIRDER TRUSSES/FLUSH BEAMS DO NOT EXCEED THE FOLLOWING:

- ROOF TRUSSES:  
1/4" DEAD LOAD
- FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS:  
1/8" DEAD LOAD
- FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO FLOOR FRAMING BY OTHERS:  
LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAD LOAD. (NOT DIFFERENTIAL DEFLECTION)

## GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
- WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.

## DESIGN LOADS:

ROOF DEAD = 1 PSF T.C., 10 PSF B.C.  
LIVE = 16 PSF  
LOAD DURATION FACTOR = 1.25

FLOOR LIVE = 40 PSF (30 PSF @ SLEEPING AREAS)  
DEAD = 10 PSF (1-JOISTS @ SOLID SAWN)  
10 PSF T.C., 5 PSF B.C. (TRUSSES)  
(ADD'L 10 PSF @ TILE)

LATERAL 120 MPH, EXPOSURE B. SEISMIC A/B.

SOIL 2,000 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)

## GENERAL FRAMING

- ALL TYP. NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE 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.

- REFER TO FASTENING SCHEDULE TABLE R602.3(1) FOR ALL CONNECTIONS, TYP. U.N.O.

- EXT. & INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. SPF OR 51P "STUD" GRADE LUMBER OR BETTER. U.N.O.  
• WALLS OVER 12' TALL SHALL BE PER PLAN.

- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRUCE-PINE-FIR #2 (SPF) OR SOUTHERN PINE #2 (SYP) LUMBER OR BETTER (KILN-DRIED). ALL HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED LOADS & SIZED ACCORDINGLY. CODE TABLES HAVE NOT BEEN USED.

- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x STUD' GRADE MEMBERS SPACED @ 16" O.C. (MAX. U.N.O.)  
• HEADERS IN NON-LOAD BEARING WALLS SHALL BE:  
(1)2x4/6 FLAT @ OPENINGS UP TO 4'; (2)2x4/6 FLAT UP TO 8'.

- ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).

- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING:

- 'LSL' - Fb=2325 psi; Fv=310 psi; E=1.55x10<sup>6</sup> psi
- 'LVL' - Fb=2600 psi; Fv=285 psi; E=2.0x10<sup>6</sup> psi
- 'PSL' - Fb=2400 psi; Fv=240 psi; E=2.0x10<sup>6</sup> psi

- M&K SHALL BE FULLY INDEMNIFIED FOR ANY AND ALL ISSUES RESULTING FROM OR RELATED TO ANY BUILDING COMPONENT IF THE OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO M&K FOR STRUCTURAL REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.

- FOR 2 & 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES 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" TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 3 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 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 WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 1/4"x6" SIMPSON SDS SCREWS (OR 6 3/8" TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AND BOTTOM SCREWS 2" FROM EDGE. A SOLID 7" BEAM IS ACCEPTABLE.

- ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD & (1)2x KING STUD, MINIMUM.  
- THE NUMBER OF STUD SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, U.N.O..

- ALL MULTI-PLY STUDS TO BE FASTENED TOGETHER W/ 3"x0.131" NAILS @ 24" O.C. (MIN), EACH PLY.

- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND/BEARING. BLOCKING TO MATCH POST ABOVE.

- FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS WITH P.A.F.'s (HILTI' X-GF PINS OR EQUAL) @ 16" O.C. STAGGERED, OR 1/2" DIA. BOLTS @ 48" O.C. STAGGERED.

- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BC52-2/4 CAP & ABW44Z BASE, U.N.O.

## FLOOR FRAMING

- 1-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES MARBLE FLOORS - CONTACT M&K FOR MARBLE FLOOR DESIGNS)
- AT 1-JOIST FLOORS, PROVIDE 1 1/8" MIN. OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.

- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STUD-1-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 @ 8" O.C. FIELD.  
- 2 3/8" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES @ 6" O.C. IN FIELD.  
- 1/2" x 2" MIN. SCREWS @ 6" O.C. @ PANEL EDGES @ 12" O.C. FIELD.

## ROOF FRAMING

- BAY WINDOWS & SHED ROOFS (UP TO 6' SPAN) CAN BE 2x4 OR 2x6 RAFTERS & CEILING JOISTS @ 16/24" O.C.

- FASTEN EACH ROOF TRUSS TO TOP PLATE W/ SIMPSON H25T CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) H25T CLIPS AT 2-PLY GIRDER TRUSSES, (3) H25T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS.

- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.

- ERECT AND INSTALL ROOF TRUSSES PER MTCA & TPI'S BC51 I-08 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."

- SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (MAX 7' SPAN) W/ 2x4 LEDGER FASTENED TO:  
- RIM BOARD W/ (2) 3"x0.131" NAILS @ 16" O.C. MAX. (1-JOISTS)  
- TRUSS VERTICALS W/ (3) 3"x0.131" NAILS @ 14/2" O.C. MAX. (FLOOR TRUSSES)

- 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 @ 12" O.C. FIELD.  
- W/ 2 3/8" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES @ 8" O.C. FIELD.  
- W/ 2 3/8" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES @ 6" O.C. FIELD.

## VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE
3'-0"	20 FT. MAX	L3"x3"x1/4"
	3 FT. MAX	L3"x3"x1/4"
6'-0"	12 FT. MAX	L4"x3"x1/4"
	20 FT. MAX	L5"x3"x3/8"
8'-0"	3 FT. MAX	L4"x4"x1/4" *
	12 FT. MAX	L5"x3"x3/8"
	16 FT. MAX	L6"x3"x3/8"
	12 FT. MAX	L6"x3"x3/8"
9'-6"	2 FT. MAX	L7"x4"x1/2" **
	3 FT. MAX	L8"x4"x1/2" **

ALL LINTELS:  
- SHALL SUPPORT 2 3/8" - 3 1/2" VENEER W/ 40 psf MAXIMUM HEIGHT.  
- 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 WOOD 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 1/4" WIDE OVER THE BEARING LENGTH ONLY. THIS IS TO ALLOW FOR MORTAR JOINT FINISHING.  
- SEE STRUCTURAL PLANS FOR ANY LINTEL CONDITION NOT SPECIFIED HEREIN.

SD2.1 REFERS TO SD2.1A FOR LVL/PSL/LSL BEAMS OR SD2.1B FOR FLITCH BEAMS OR SD2.1C FOR STEEL BEAMS

## LATERAL BRACING &amp; SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:

120 MPH WIND IN 2018 NCSCBC:RC  
(120 MPH WIND SPEED IN ASCE 7-10 WIND MAP, PER IRC R301.2.1.1) EXP. B, RISK CAT. 2 @ SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 IBC (SECTION 1604) & ASCE 7-10, AS PERMITTED BY R301.1.3 OF THE 2018 NCSCBC:RC, OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.1.2 COMPLY. ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREIN, IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSCBC:RC SECTION R802.11.1.1. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5 & R802.11.

## EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD:  
FASTEN SHEATHING W/ 2 3/8"x0.113" NAILS @ 6" O.C. AT EDGES @ 12" O.C. IN THE PANEL FIELD. TYP. U.N.O.

- HORIZONTAL BLOCKING OF EXT. WALL/SHEAR WALL PANEL EDGES IS NOT REQUIRED BY THIS DESIGN EXCEPT FOR THOSE AREAS SPECIFICALLY NOTED.

- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.

- ALT. STAPLE CONNECTION SPEC: 1 1/2" 16 GA STAPLES (1/8" CROWN) @ 3" O.C. AT EDGES @ 6" O.C. IN FIELD.

## BLOCKED PANEL EDGES

- AT DESIGNATED AREAS - FASTEN SHEATHING W/ 2 3/8" x 0.113" NAILS @ 6" O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR 1 3/4" 16 GA STAPLES (1/8" CROWN) @ 3" O.C. AT EDGES @ 6" O.C. IN FIELD. ALL SHEATHING PANELS SHALL BE ORIENTED AND INSTALLED FULL HEIGHT OF SHEAR WALL OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES @ EDGE FASTENING.

## 3" O.C. EDGE NAILING

- AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING W/ 8d NAILS @ 3" O.C. NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED 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.
- DESIGN ASSUMES 16" O.C. MAX. STUD SPACING, U.N.O.
- 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 W/ 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

--- INDICATES EXTENT OF INT. OSB SHEARWALL OR 3" O.C. OSB SHEARWALL.

► INDICATES HOLD-DOWN BELOW

## GENERAL STRUCTURAL NOTES

## FOUNDATION

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
- FOOTING DESIGN - 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.

- FASTEN 2x4/6 SILL PLATES TO FND WITH A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAX. FROM PLATE ENDS - UTILIZING:

- 1/2" DIA. ANCHOR BOLTS @ 6'-0" O.C., 7" MIN. EMBEDMENT (CONC), 15" MIN. EMBEDMENT (CMU)
- SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C. (CONC)
- SIMPSON MAB23 ANCHOR STRAPS @ 2'-8" O.C. (CMU)

- (REFER TO DETAILS FOR 10' TALL WALL ANCHOR REQUIREMENTS)

- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ CONCRETE OR CMU SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.

- BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED WOOD. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.

- CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.:

f<sub>c</sub> = 4,000 psi: ..... FOUNDATION WALLS  
2,500 psi: ..... FOOTINGS & INTERIOR SLABS ON GRADE  
3,000 psi: ..... GARAGE & EXTERIOR SLABS ON GRADE  
f<sub>y</sub> = 60,000 psi

- BASEMENT FOUNDATION WALL DESIGN BASED ON:

- 9' OR 10' HEIGHT (AS NOTED ON PLANS)
- TALLER WALLS MUST BE ENGINEERED.
- NOMINAL WIDTH (9 1/2" FOR 10' THICK WALL).

- BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYPE CLASSIFICATIONS (SC, ML-CL, OR CL).

- BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY ADEQUATE TEMPORARY BRACING OR INSTALL 1st FLOOR DECK.

- 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, U.N.O.  
• LARGER OPENINGS SHALL BE PER PLAN.

- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT.

- ALL FOOTINGS SHALL BEAR AT LEAST 12" BELOW FINISH GRADE.

- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 15% COMPACTED FILL.

- 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

- CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 WITH A MIN. COMPRESSIVE STRENGTH OF 1400 psi (F<sub>m</sub>=1500 psi). MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 @ 5301.

- CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORCEMENT (OR EQUAL) - 9 GA. MINIMUM @ 16" O.C.

- PROVIDE 2x8 x 16" LONG P.T. PLATE ON TOP OF ALL CRAWL SPACE PIERS. ALL PIERS SHALL BE GROUTED SOLID.

- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRAWL SPACE WALLS, FASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE.

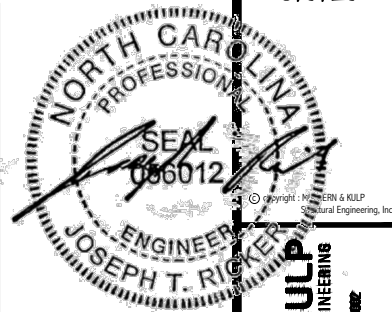
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY.

- BUILDER TO VERIFY THAT MODEL HAS BEEN ADEQUATELY TREATED BY A LICENSED AND BONDED PEST CONTROL COMPANY FOR SUBTERRANEAN TERMITES. METHOD AND TYPE OF TREATMENT TO BE DETERMINED BY PEST CONTROL COMPANY.

## HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION
► HD-1	SIMPSON HTT4 HOLD-DOWN * (3/8" DIA. ANCHOR)
► HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.) -OR- MSTC66B3 ALTERNATE
► HD-3	SIMPSON 5THD14/5THD14RJ

\* UTILIZE THE 56TB24 ANCHOR BOLT @ ALL MONOSLAB & INTERIOR RAISED SLAB (I.E. THICKENED SLABS, FOOTINGS) CONDITIONS. MINIMUM 24" MIN. FOOTING THICKNESS REQUIRED.  
EPOXY-SET ALTERNATE FOR MONOSLAB & INTERIOR RAISED SLAB CONDITIONS ONLY: UTILIZE SIMPSON SET EPOXY SYSTEM TO FASTEN THREADED ROD INTO CONCRETE FOUNDATION. PROVIDE 10" (FOR 5/8" DIA.) OR 15" (FOR 7/8" DIA.) MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF. INSTRUCTIONS. MINIMUM 16" FOOTING THICKNESS REQ'D. DO NOT LOCATE ANCHORS WITHIN 1 3/4" OF EDGE OF CONCRETE.



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**MULHERN+KULP**  
RESIDENTIAL STRUCTURAL ENGINEERING  
300 Duncasville Ave. Building 4 - Jenkins, PA 15867  
P: 724-504-5581 • mulhern+kulp.com



M&K project number:

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project mgr:

JTR

drawn by:

KJN

issue date:

03-05-25

REVISIONS:

date:

initial:

**DR3 HOMES**

STRUCTURAL NOTES

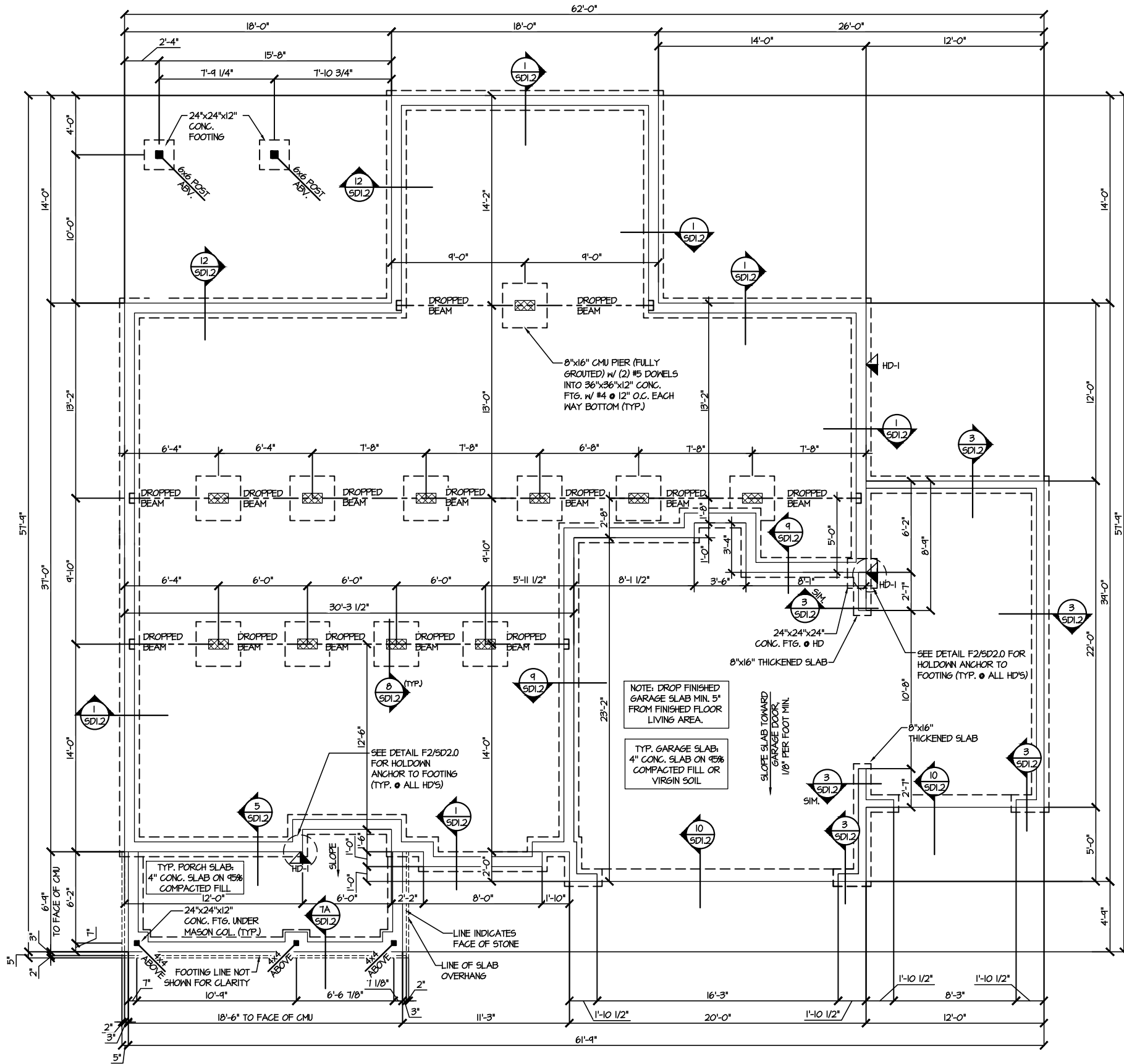
BLAKE POND COMMUNITY

LOT 114 - STONEFIELD 4

RALEIGH, NC






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
**CRAWL SPACE FOUNDATION PLAN**  
SCALE: 1/8"=1'-0"

## LEGEND




-  INTERIOR BEARING WALL
-  BEARING WALL ABOVE
-  BEAM / HEADER
-  INDICATES SHEAR WALL. \* EXTENT
-  EXTENT OF OVERFRAMING

J.L. METAL HANGER

- \* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

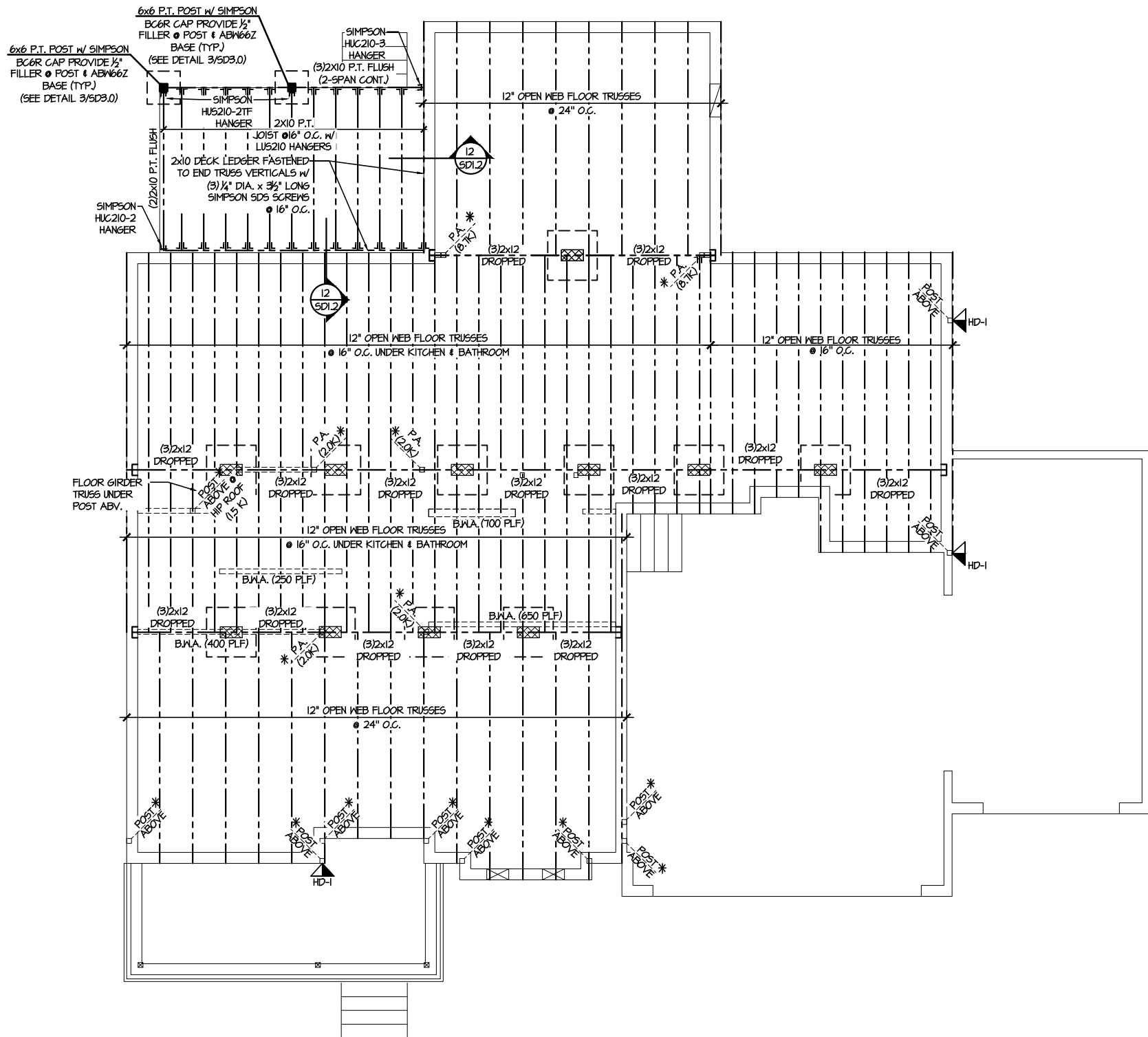
 INDICATES HOLD-DOWN OR STRAP.  
REFER TO SCHEDULE.

REFER TO SO.0 FOR  
TYPICAL STRUCTURAL NOTES  
& SCHEDULES

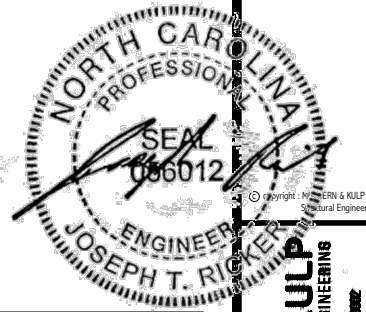
HOLD-DOWN SCHEDULE	
SYMBOL	SPECIFICATION
 HD-1	SIMPSON HIT40 HOLD-DOWN *
 HD-2	SIMPSON MSTC66 STRAP TIE (24" END LENGTH) (MSTC66B3 ALTERNATE)
 HD-3	SIMPSON 5THD14/5THD14RJ

\*UTILIZE SIMPSON 55TB6 ANCHOR BOLT





1ST FLOOR FRAMING PLAN  
SCALE: 1/8"=1'-0"



3/5/25

**MULHERN+KULP**  
RESIDENTIAL STRUCTURAL ENGINEERING  
300 Duncasville Ave. Building 4 - Jenkins, PA 15882  
P: 724-508-5581 • mulhern+kulp.com  
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REVISIONS:  
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**DR3 HOMES**

FLOOR FRAMING PLANS  
BLAKE POND COMMUNITY  
LOT 114 - STONEFIELD 4  
RALEIGH, NC

sheet:

**S2.0**

### LEGEND

- INTERIOR BEARING WALL
- BEARING WALL ABOVE
- BEAM / HEADER
- INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- METAL HANGER
- INDICATES POST ABOVE, PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP, REFER TO SCHEDULE.

REFER TO 50.0 FOR  
TYPICAL STRUCTURAL NOTES  
& SCHEDULES

### HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION
HD-1	SIMPSON HT4 HOLD-DOWN *
HD-2	SIMPSON MSTC66 STRAP TIE (24" END LENGTH) (MSTC66B3 ALTERNATE)
HD-3	SIMPSON STHD14/STHD14RJ

\*UTILIZE SIMPSON SSB16 ANCHOR BOLT

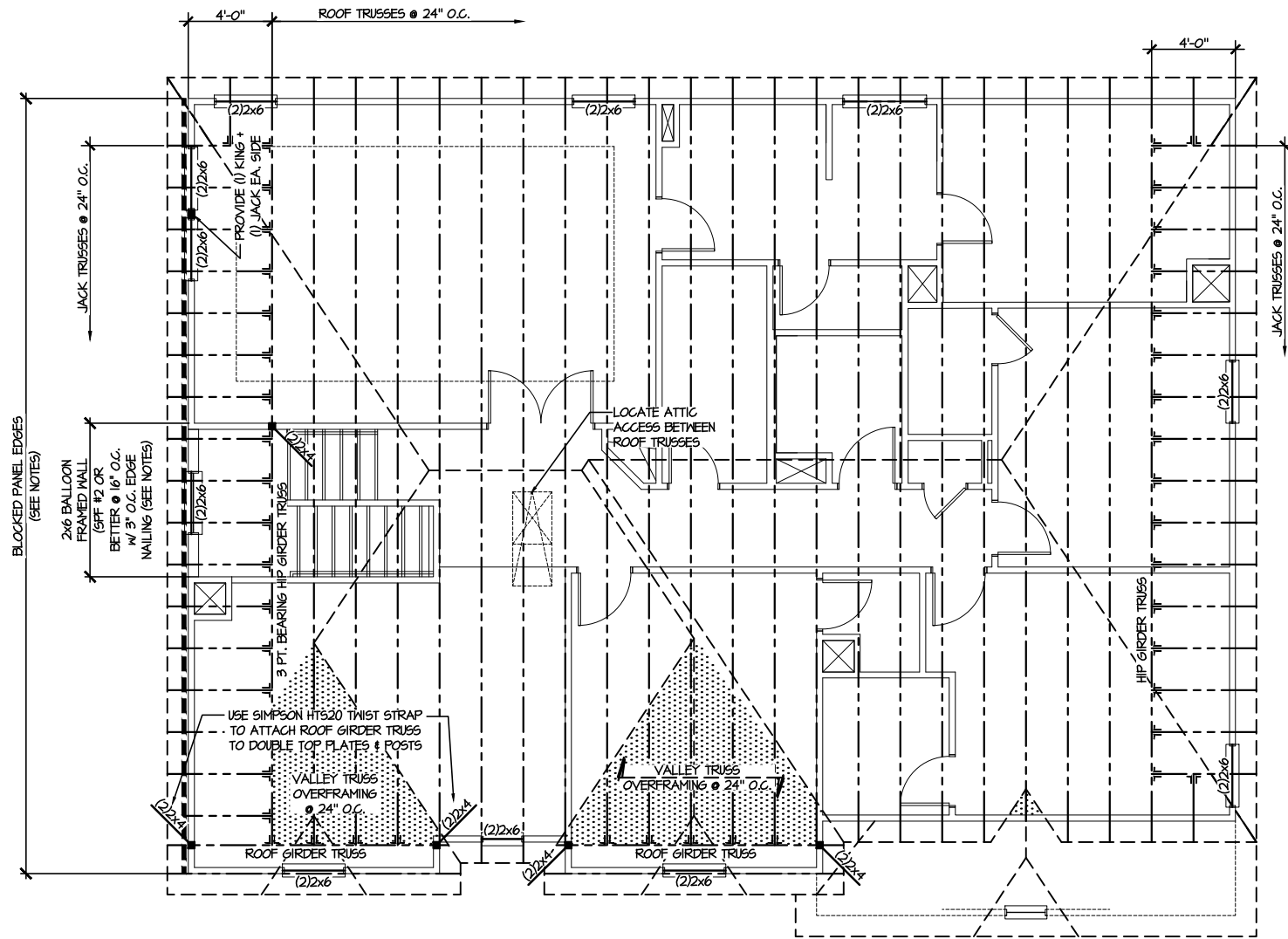
### ENGINEERED BEAM MATERIAL SCHEDULE

BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)3/4"x16" - D	3/2"x16" - D	N/A	(2)2x12 + (1) 3/8"x11 1/2" STEEL FLITCH PLATES - D	M12x14 - D
002	(2)3/4"x11 1/2" - D	3/2"x11 1/2" - D	(3)3/4"x11 1/2" - D	(2)2x12 + (1) 1/2"x11 1/2" STEEL FLITCH PLATES - D	M12x14 - D
003	(2)3/4"x14" - F	3/2"x14" - F	(2)3/4"x14" - F	(2)2x12 + (1) 1/2"x11 1/2" STEEL FLITCH PLATES - F	M12x14 - F
004	(2)3/4"x14" - F	3/2"x14" - F	(3)3/4"x14" - F	(2)2x12 + (1) 3/8"x11 1/2" STEEL FLITCH PLATES - F	M12x14 - F
005	(3)3/4"x16" - FT	5/4"x16" - FT	N/A	(3)2x12 + (2) 3/8"x11 1/2" STEEL FLITCH PLATES - F	M12x26 - F
006	(3)3/4"x16" - FT	5/4"x16" - FT	N/A	(3)2x12 + (2) 3/8"x11 1/2" STEEL FLITCH PLATES - F	M12x26 - F
007	(2)3/4"x14" - F	3/2"x14" - F	(2)3/4"x14" - F	(2)2x12 + (1) 1/2"x11 1/2" STEEL FLITCH PLATES - F	M12x14 - F
008	(2)3/4"x14" - F	3/2"x14" - F	(2)3/4"x14" - F	(2)2x12 + (1) 1/2"x11 1/2" STEEL FLITCH PLATES - F	M12x14 - F
009	(2)3/4"x14" - D	3/2"x14" - D	(2)3/4"x14" - D	(2)2x12 + (1) 1/2"x11 1/2" STEEL FLITCH PLATES - D	M10x12 - D
010	(2)3/4"x16" - H	3/2"x16" - H	(3)3/4"x16" - H	(3)2x12 + (2) 1/2"x11 1/2" STEEL FLITCH PLATES - H	N/A
011	(2)3/4"x11 1/2" - D	3/2"x11 1/2" - D	(3)3/4"x11 1/2" - D	(2)2x12 + (1) 1/2"x11 1/2" STEEL FLITCH PLATES - D	M12x14 - D
012	(3)3/4"x16" - D	5/4"x16" - D	(4)3/4"x16" - D	(3)2x12 + (2) 1/2"x11 1/2" STEEL FLITCH PLATES - D	M12x14 - D
013	(2)3/4"x11 1/2" - D	3/2"x11 1/2" - D	(3)3/4"x11 1/2" - D	(2)2x12 + (1) 1/2"x11 1/2" STEEL FLITCH PLATES - D	M12x14 - D
014	(2)3/4"x16" - D	3/2"x16" - D	(3)3/4"x16" - D	(3)2x12 + (2) 3/8"x11 1/2" STEEL FLITCH PLATES - D	M12x14 - D
015***	(3)3/4"x11 1/2" - D	N/A	(3)3/4"x11 1/2" - D	(3)2x12 + (2) 1/2"x11 1/2" STEEL FLITCH PLATES - D	M12x14 - D
016	(2)3/4"x11 1/2" - F	3/2"x11 1/2" - F	(3)3/4"x11 1/2" - F	(2)2x12 + (1) 1/2"x11 1/2" STEEL FLITCH PLATES - F	M12x14 - F

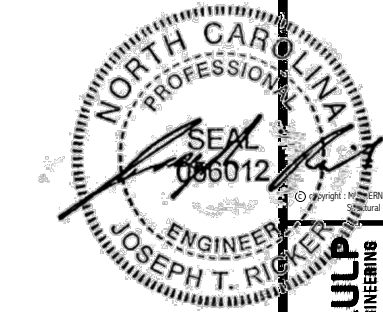
- BEAM NOTATION:
  - "F" INDICATES FLUSH BEAM
  - "FT" INDICATES FLUSH TOP BEAM
  - "FB" INDICATES FLUSH BOTTOM BEAM
  - "D" INDICATES DROPPED BEAM
  - "H" INDICATES DROPPED OPENING HEADER
- REFER TO DETAIL D/SD2.0 FOR TYPICAL FLITCH BEAM CONNECTIONS
- REFER TO DETAIL E/SD2.0 FOR TYPICAL STEEL BEAM CONNECTIONS
- FOR FLUSH TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION W/ (2) 3"x0.120" NAILS @ 8" O.C.
- FOR FLUSH BOTTOM BEAMS PROVIDE 2X STACKED PLATES ATOP BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION W/ (2) 3"x0.120" NAILS @ 8" O.C.

\*\*\* - SEE PLAN FOR EXTENT OF 3-PLY BEAM





1 ROOF FRAMING PLAN  
SCALE: 1/8"=1'-0"



seal: 3/5/25

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M&K project number:  
126-23061

project mgr: JTR  
drawn by: KJN  
issue date: 03-05-25

REVISIONS:  
date: initial:

**DR3**  
**HOMES**

ROOF FRAMING PLANS  
BLAKE POND COMMUNITY  
LOT 114 - STONEFIELD 4  
RALEIGH, NC

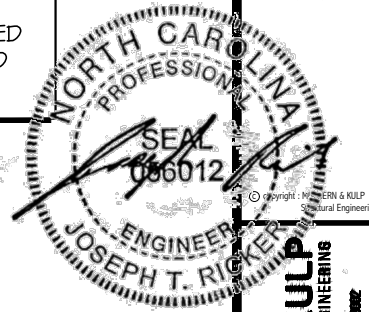
sheet:  
**S4.0**

LEGEND

- INTERIOR BEARING WALL
- BEARING WALL ABOVE
- BEAM / HEADER
- INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- 1L METAL HANGER
- INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

REFER TO 50.0 FOR  
TYPICAL STRUCTURAL NOTES  
& SCHEDULES





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M&K project number:  
126-23061  
project mgr: JTR  
drawn by: KJN  
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REVISIONS:  
date: initial:

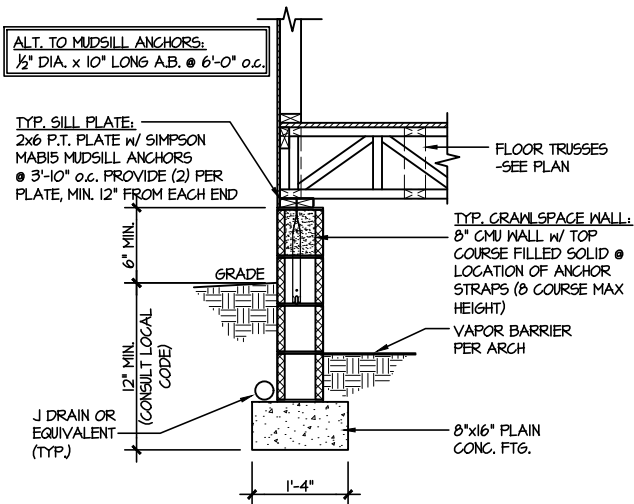
**DRB HOMES**

FOUNDATION DETAILS  
BLAKE POND COMMUNITY  
LOT 114 - STONEFIELD 4  
RALEIGH, NC

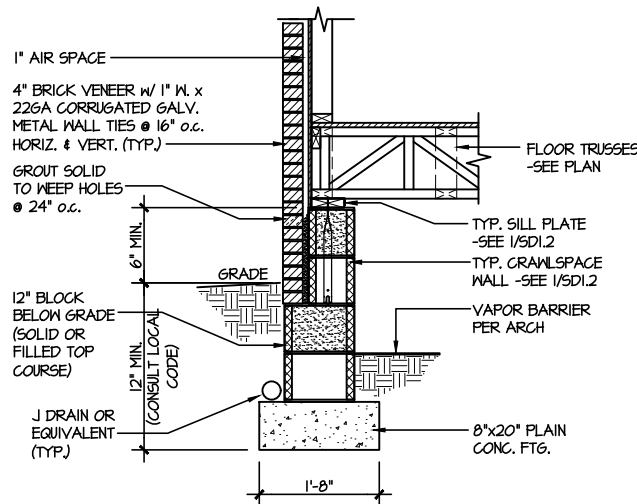
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LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN ALL APPLICABLE AREAS. THESE DETAILS ARE NOT "CUT" ON THE PLANS.

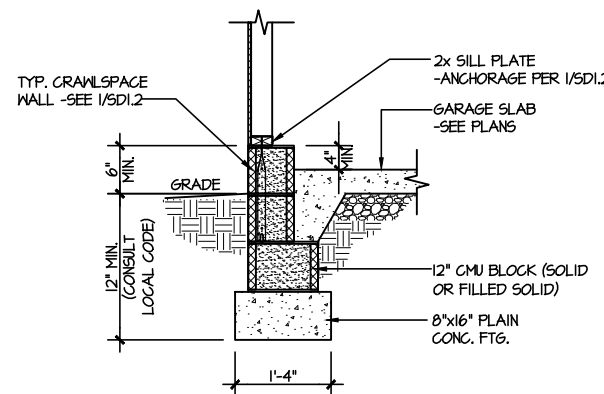
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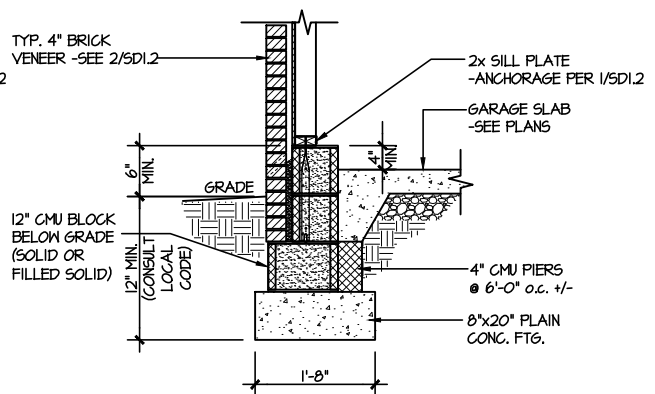
**1 TYPICAL CRAWLSPACE FOUNDATION**  
SCALE: 3/8"=1'-0"



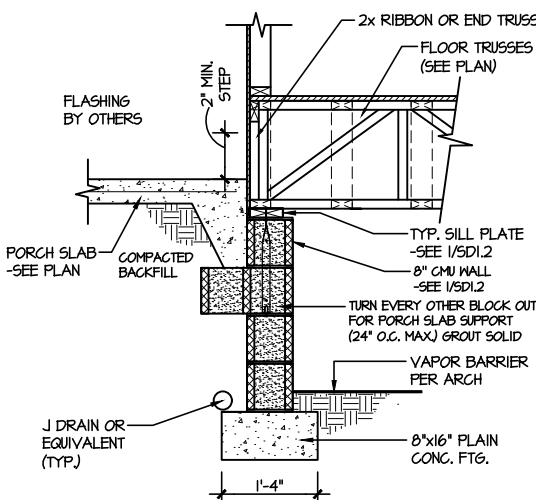
**2 TYPICAL CRAWLSPACE FOUNDATION**  
SCALE: 3/8"=1'-0" W/ BRICK VENEER



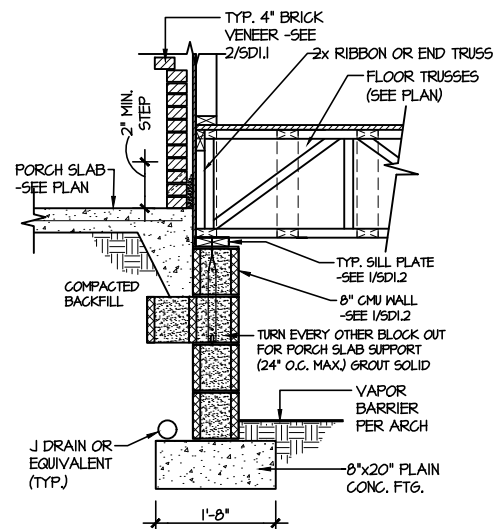
**3 TYPICAL GARAGE FOUNDATION**  
SCALE: 3/8"=1'-0"



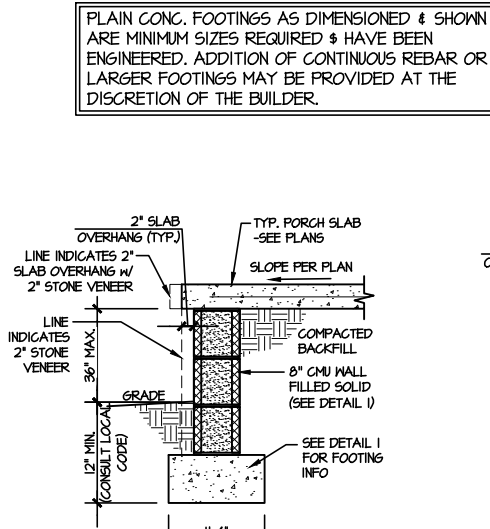
**4 TYPICAL GARAGE FOUNDATION**  
SCALE: 3/8"=1'-0" W/ BRICK VENEER



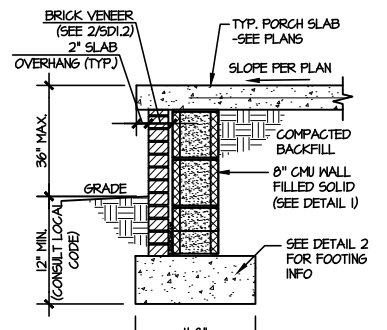
**5 TYPICAL CRAWLSPACE FOUNDATION @ PORCH/PATIO SLAB**  
SCALE: 3/8"=1'-0"  
(REFER TO DETAIL 12 FOR WOOD PORCH OPTION)



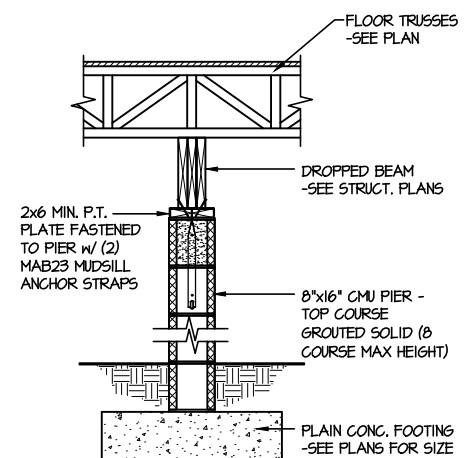
**6 TYPICAL CRAWLSPACE FOUNDATION @ PORCH/PATIO SLAB**  
SCALE: 3/8"=1'-0" W/ BRICK VENEER



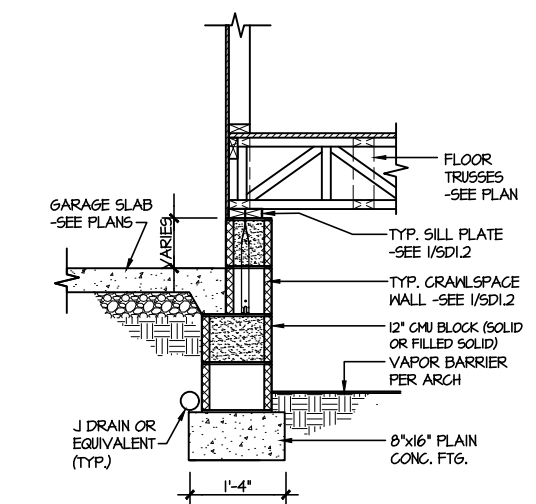
**7A TYP. FOOTING @ PORCH SLAB**  
SCALE: 3/8"=1'-0"



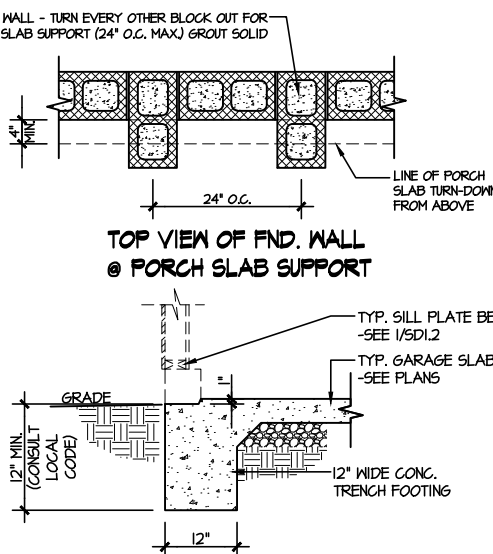
**7B TYP. FOOTING @ PORCH SLAB**  
SCALE: 3/8"=1'-0" W/ BRICK VENEER



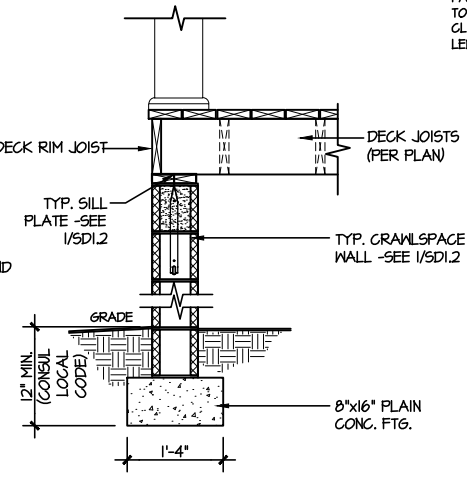
**8 TYPICAL CRAWLSPACE FND. @ INTERIOR PIER**  
SCALE: 3/8"=1'-0"



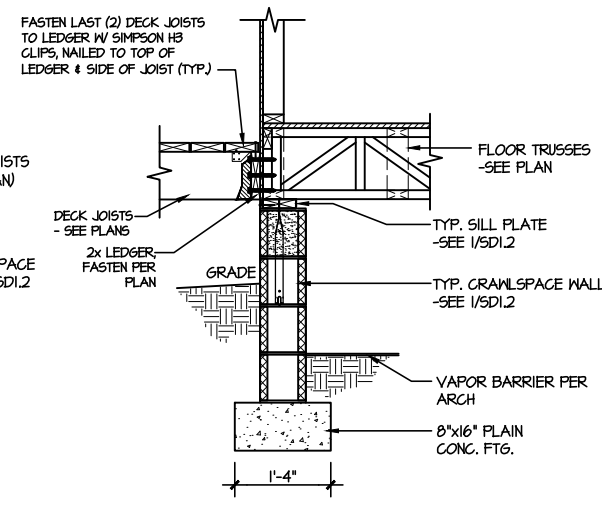
**9 TYPICAL CRAWLSPACE FOUNDATION @ GARAGE**  
SCALE: 3/8"=1'-0"



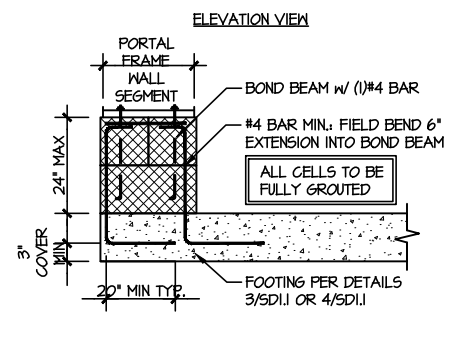
**10 TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING**  
SCALE: 3/8"=1'-0"



**11 TYPICAL CRAWLSPACE FOUNDATION @ WOOD PORCH/DECK PERIMETER**  
SCALE: 3/8"=1'-0"

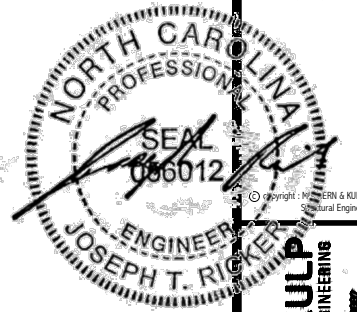


**12 TYPICAL CRAWLSPACE FOUNDATION @ WOOD PORCH/DECK**  
SCALE: 3/8"=1'-0"



**A GARAGE PORTAL FRAME STEM WALL REINFORCEMENT**  
SCALE: 3/8"=1'-0"





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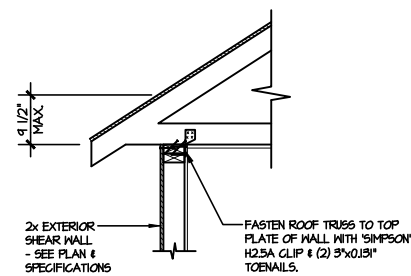
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**126-23061**  
project mgr: JTR  
drawn by: KJN  
issue date: 03-05-25

REVISIONS:  
date: initial:

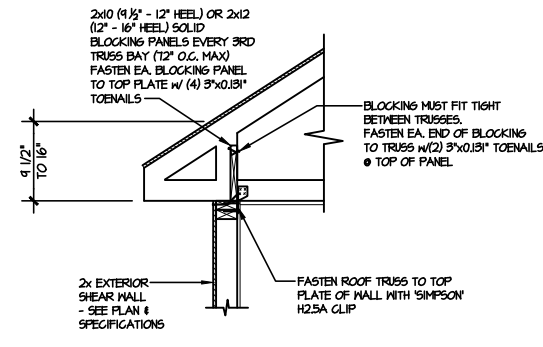
**DRB HOMES**

FRAMING DETAILS  
BLAKE POND COMMUNITY  
LOT 114 - STONEFIELD 4  
RALEIGH, NC

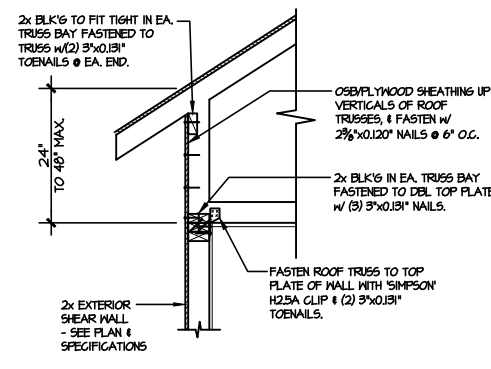
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**SD2.0**



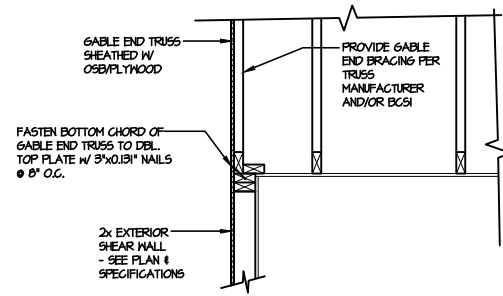
**TYPICAL SHEAR TRANSFER DETAIL @ ROOF**  
**(A1)** SCALE: 3/8"=1'-0"  
HEEL HEIGHT LESS THAN 1 1/2"  
NO BLOCKING REQ'D



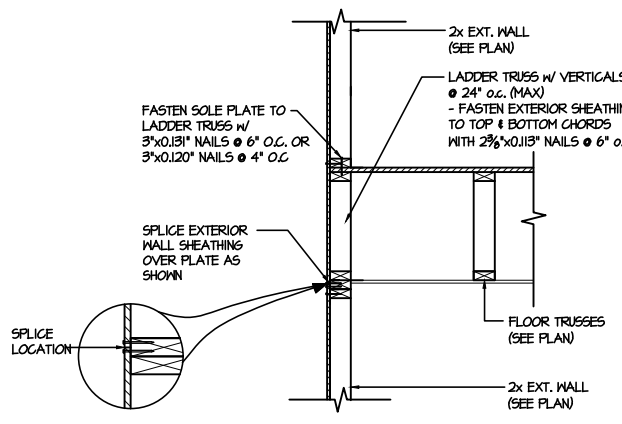
**TYPICAL SHEAR TRANSFER DETAIL @ ROOF**  
**(A2)** SCALE: 3/8"=1'-0"  
HEEL HEIGHT BETWEEN 1 1/2" - 16"  
BLOCKING REQ'D



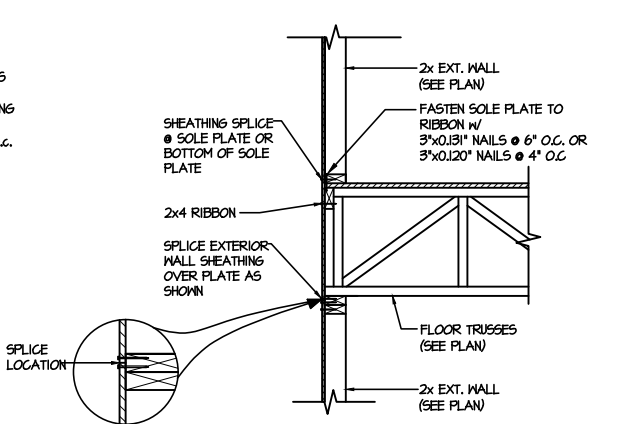
**TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS**  
**(A3)** SCALE: 3/8"=1'-0"  
HEEL HEIGHT UP TO 48" MAX.



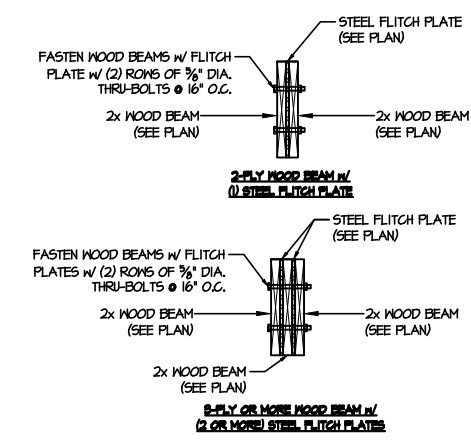
**TYPICAL GABLE END DETAIL**  
**(B)** SCALE: 3/8"=1'-0"



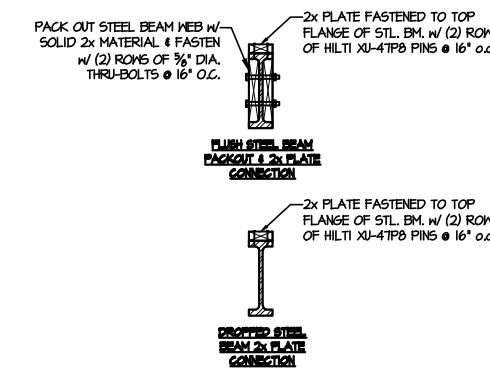
**TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL**  
**(C1)** SCALE: 3/8"=1'-0"  
PARALLEL FRMS



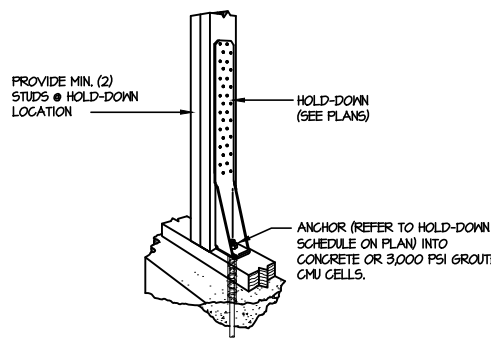
**TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL**  
**(C2)** SCALE: 3/8"=1'-0"  
PERPENDICULAR FRMS



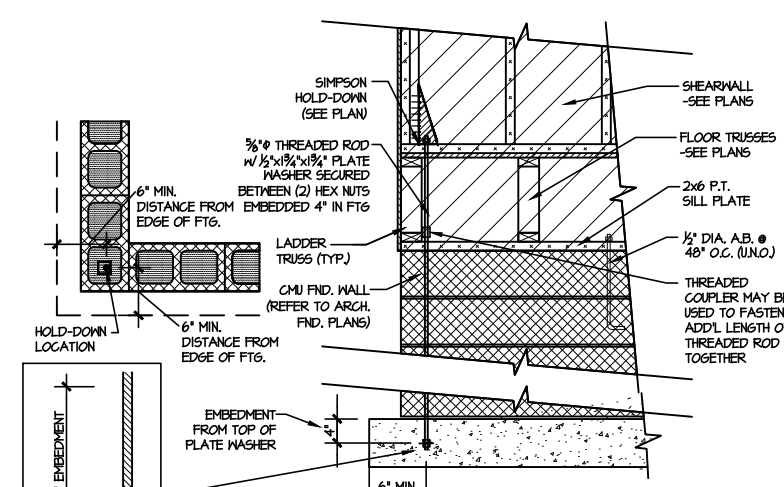
**TYPICAL FLITCH BEAM CONNECTION DETAIL**  
**(D)** SCALE: 3/4"=1'-0"



**TYPICAL STEEL BEAM CONNECTION DETAIL**  
**(E)** SCALE: 3/4"=1'-0"



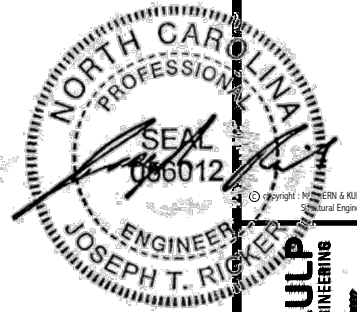
**TYPICAL HOLD DOWN INSTALLATION**  
**(F1)** SCALE: N.T.S.



**TYPICAL CMU FOUNDATION HOLD-DOWN INSTALLATION**  
**(F2)** SCALE: N.T.S.  
(CORNER SHOWN - APPLICABLE TO ALL CONDITIONS)

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project mgr: JTR  
drawn by: KJN  
issue date: 03-05-25

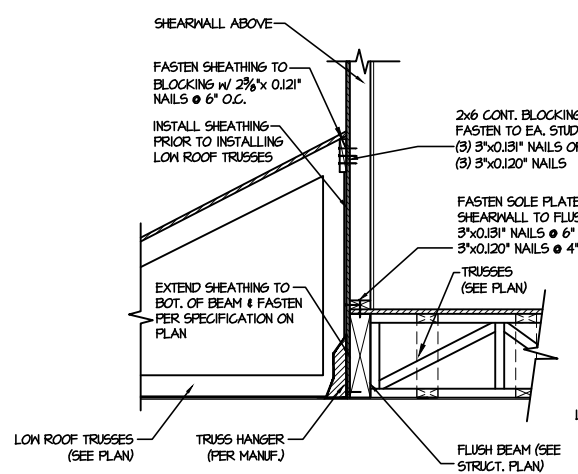
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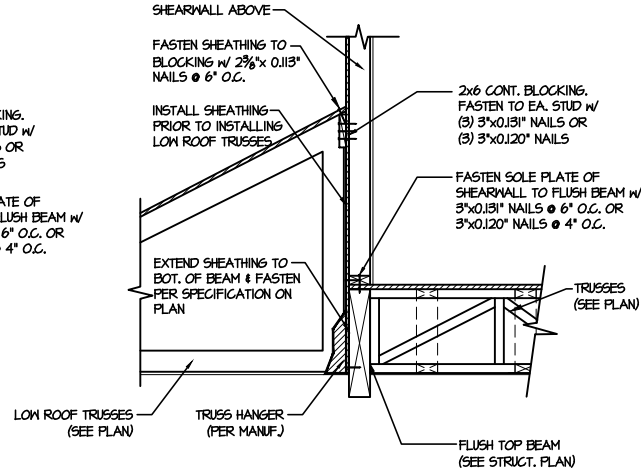
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BLAKE POND COMMUNITY  
LOT 114 - STONEFIELD 4  
RALEIGH, NC

sheet:

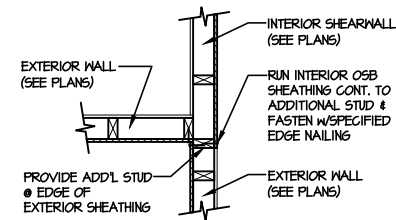
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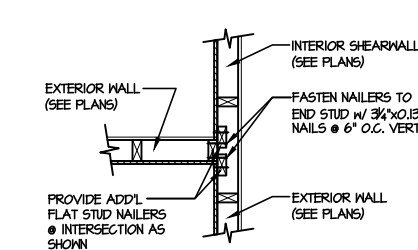
**1 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE**  
SCALE: 3/4"=1'-0"



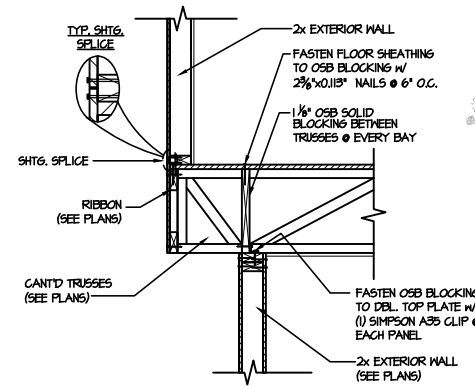
**2 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE**  
SCALE: 3/4"=1'-0"



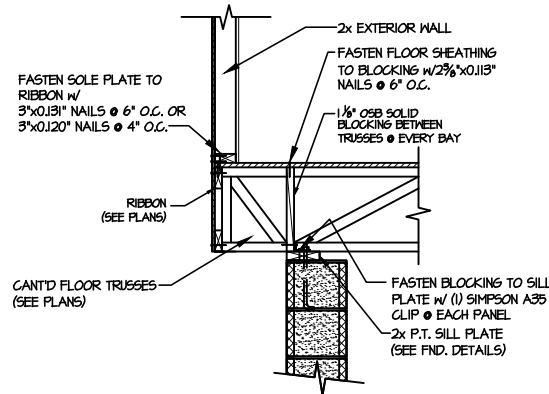
**3 SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARWALL**  
SCALE: 3/4"=1'-0"



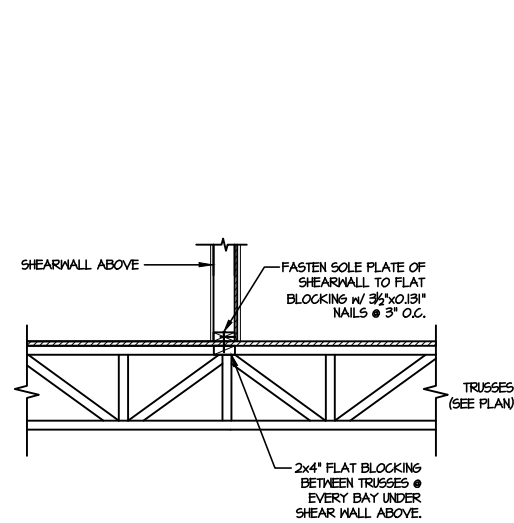
**4 SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARWALL**  
SCALE: 3/4"=1'-0"



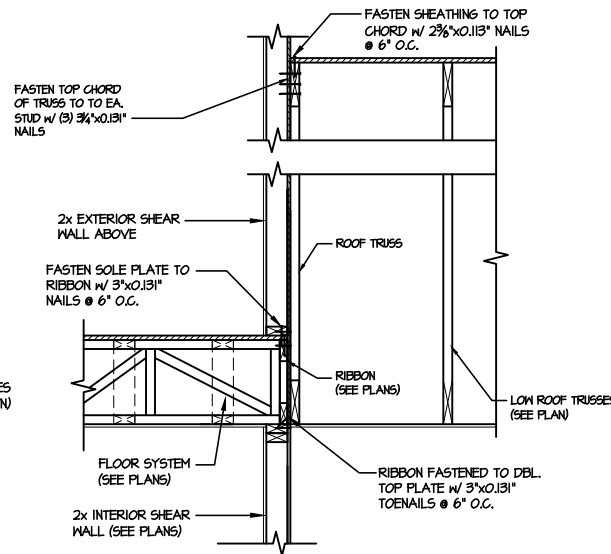
**5 SHEAR TRANSFER DETAIL BETWEEN FLOORS @ CANT'D EXT. WALL**  
SCALE: 3/4"=1'-0"



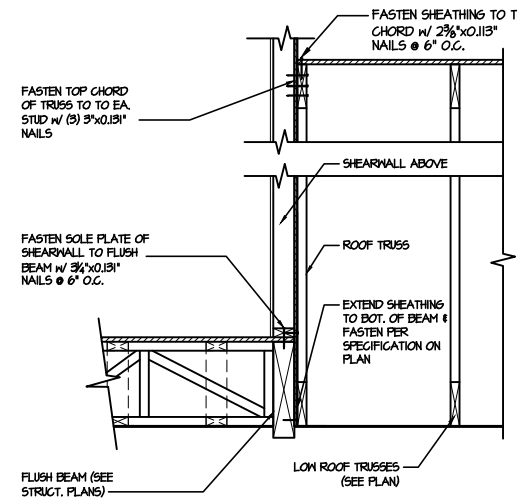
**6 SHEAR TRANSFER DETAIL @ CANT'D EXTERIOR WALL**  
SCALE: 3/4"=1'-0"



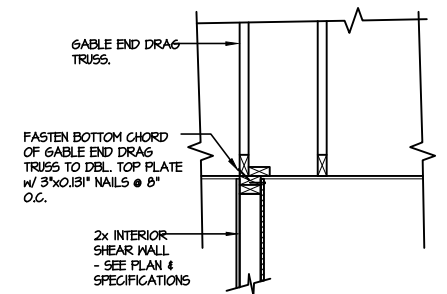
**7 SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL ABOVE**  
SCALE: 3/4"=1'-0"



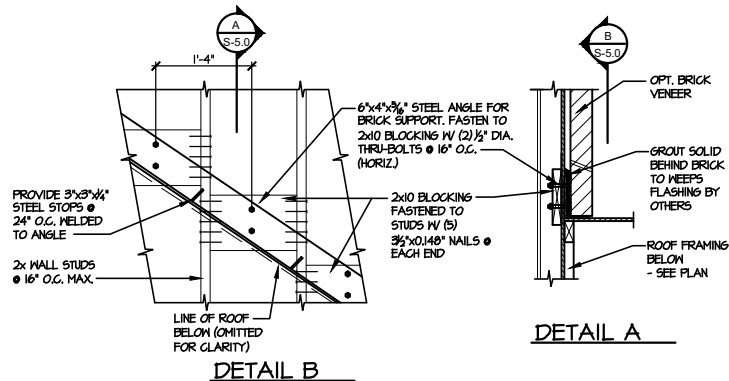
**8 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL**  
SCALE: 3/4"=1'-0"



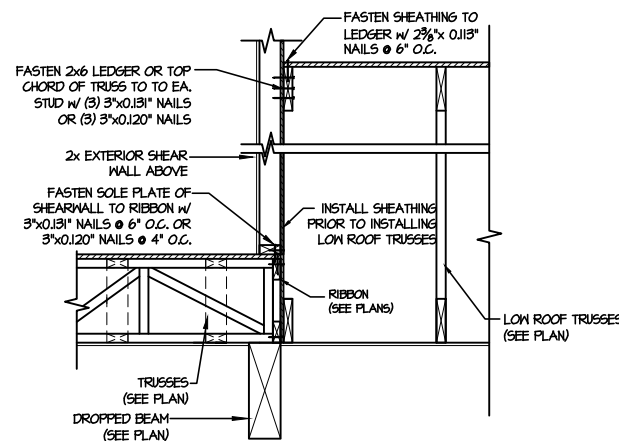
**9 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE**  
SCALE: 3/4"=1'-0"



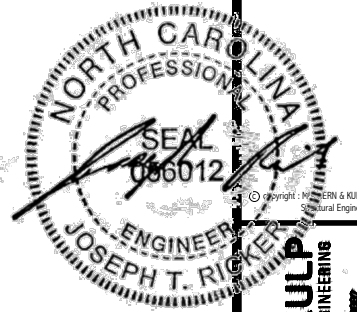
**10 INTERIOR GABLE END DETAIL**  
SCALE: 3/4"=1'-0"



**11 DETAIL SUPPORT OF BRICK VENEER**  
SCALE: 3/4"=1'-0"



**12 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL**  
SCALE: 3/4"=1'-0"



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project mgr:

JTR

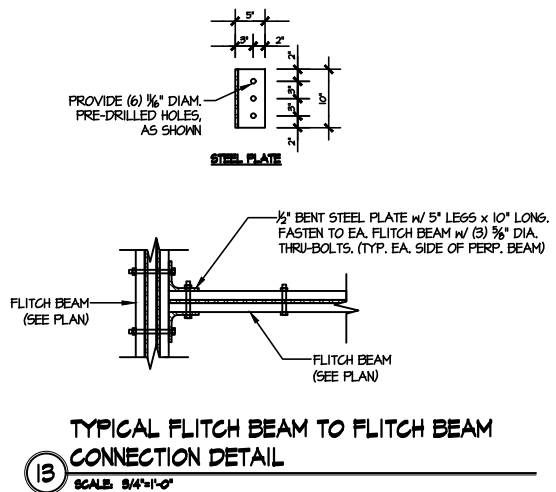
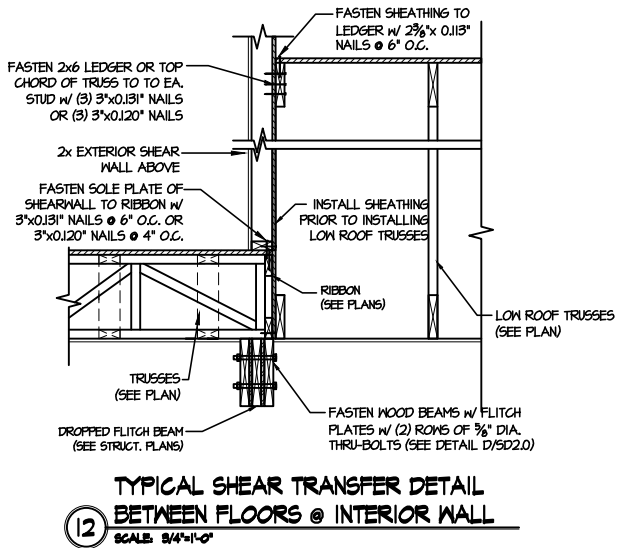
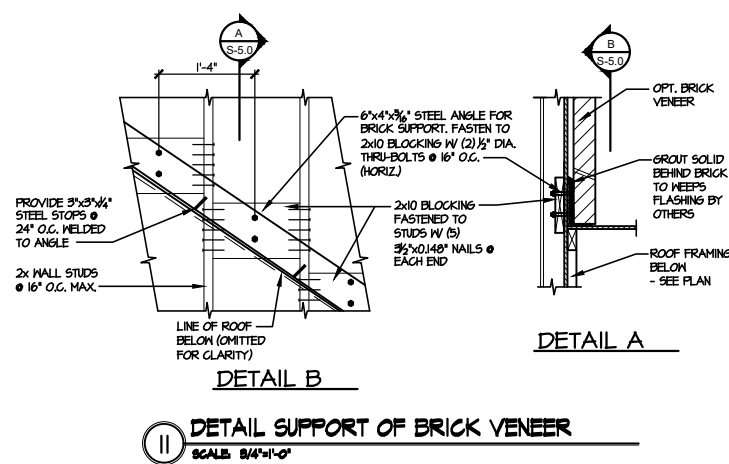
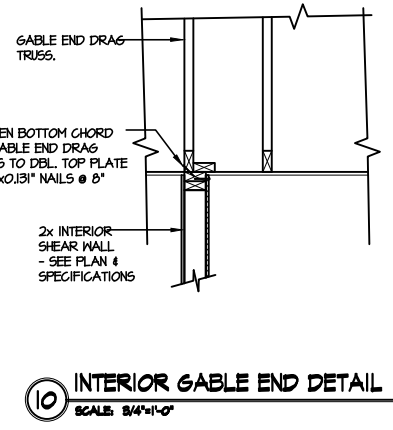
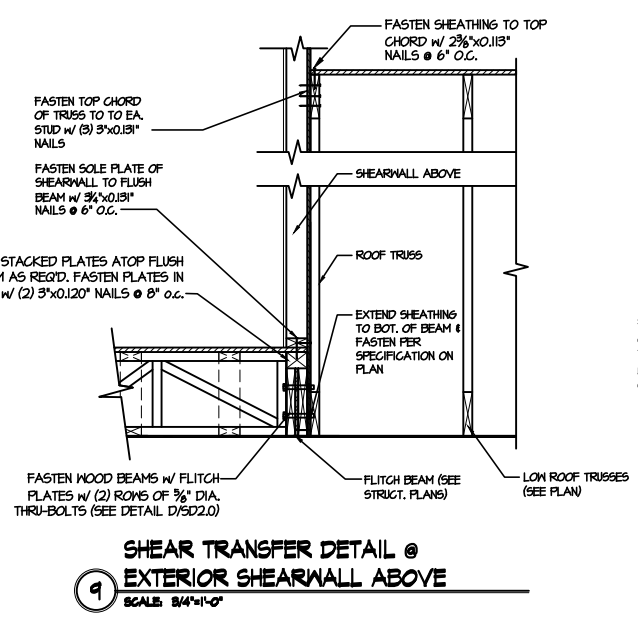
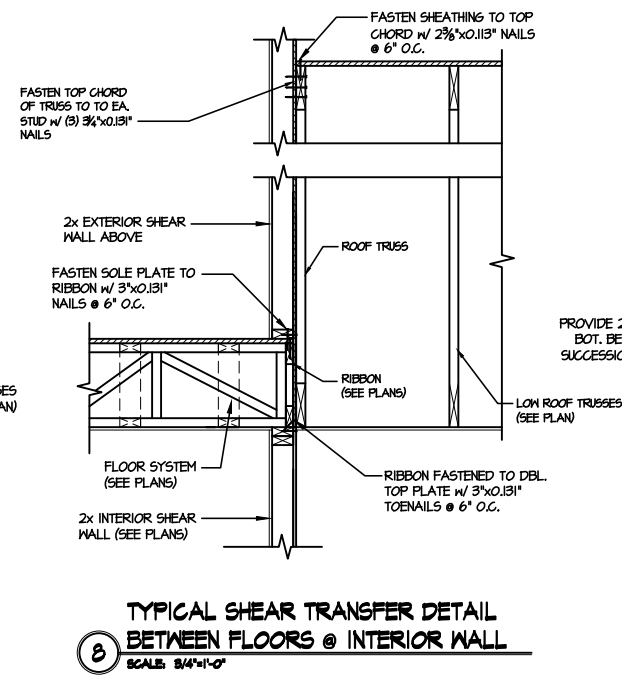
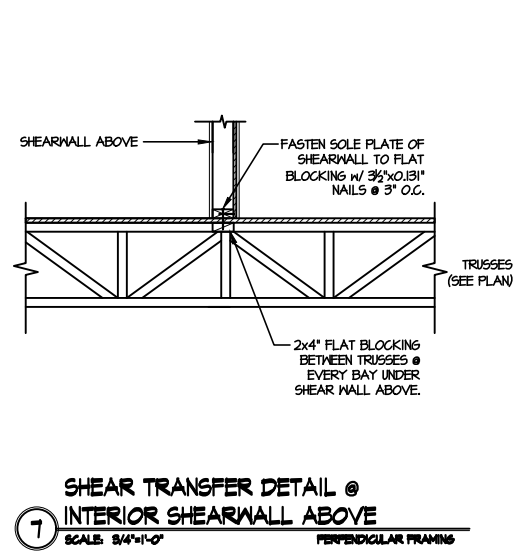
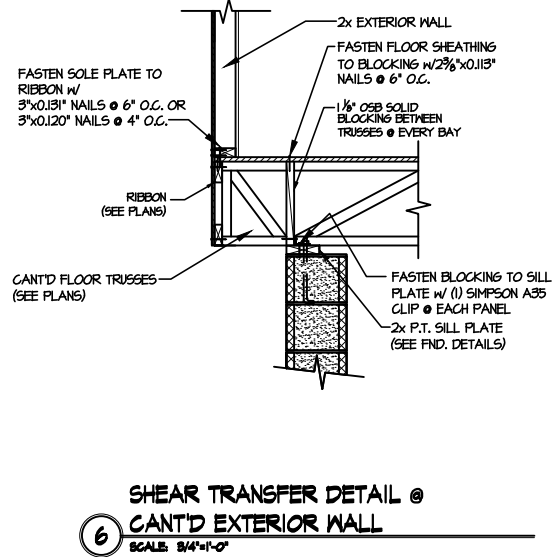
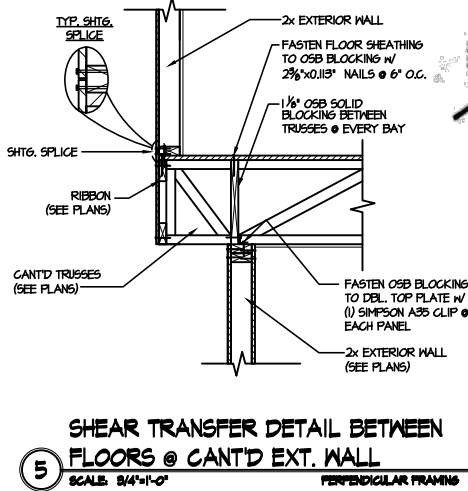
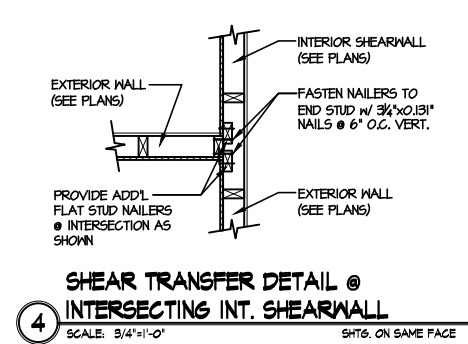
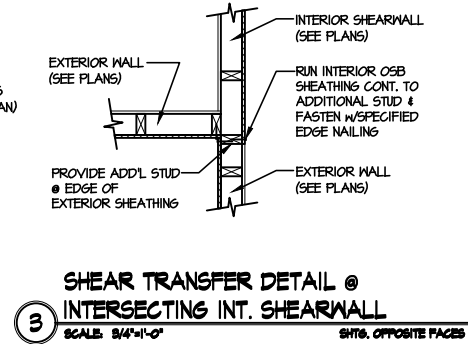
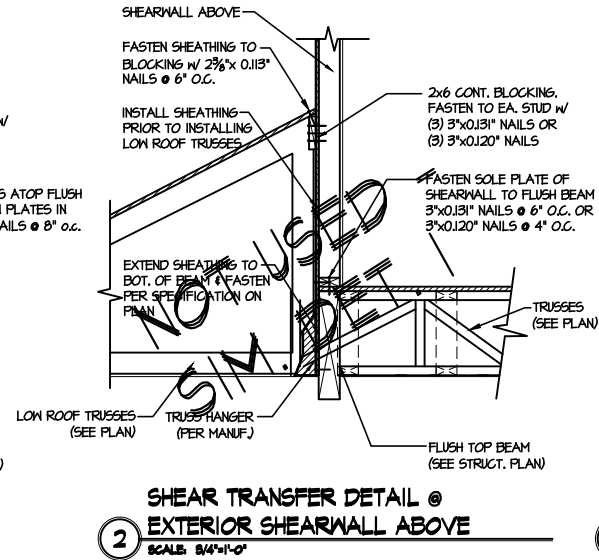
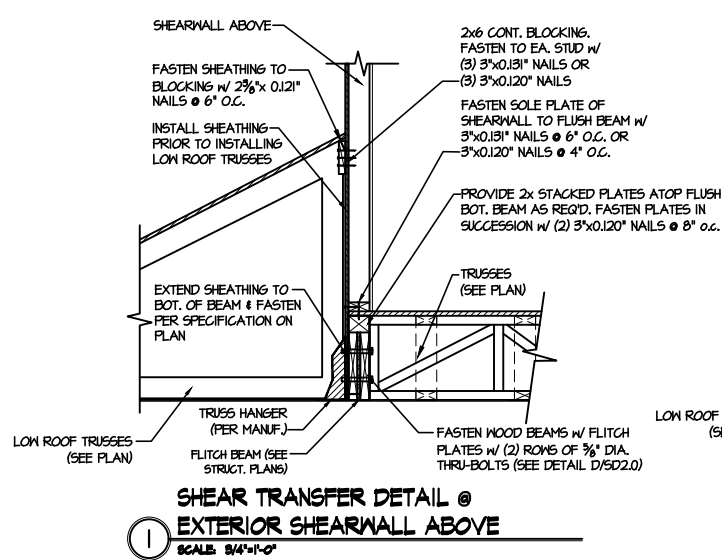
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KJN

issue date: 03-05-25

REVISIONS:

date: initial:

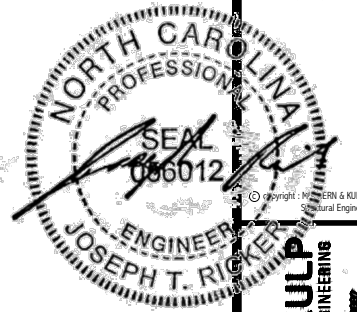


FRAMING DETAILS  
BLAKE POND COMMUNITY  
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sheet:

SD2.1B





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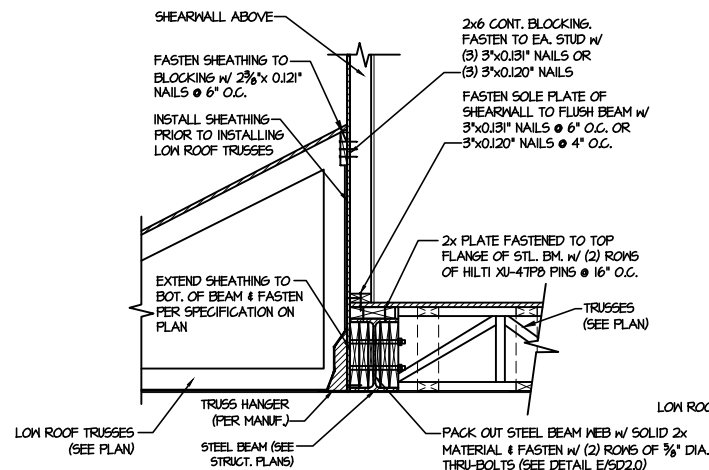
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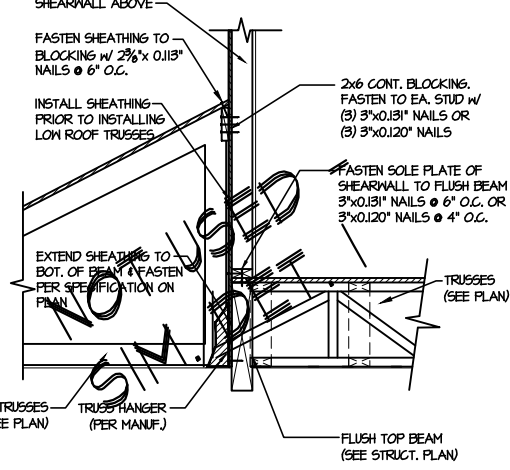
FRAMING DETAILS  
BLAKE POND COMMUNITY  
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RALEIGH, NC

sheet:

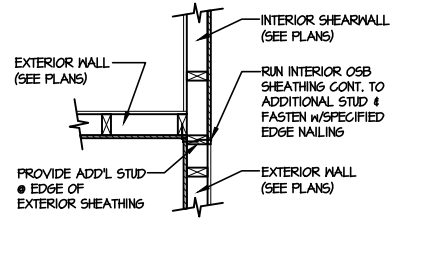
SD2.1C



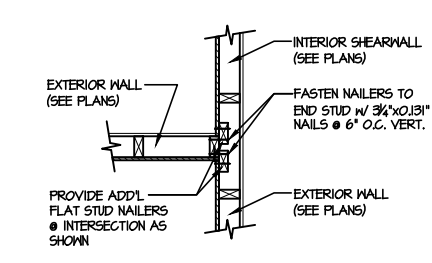
**1 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE**  
SCALE: 3/4"=1'-0"



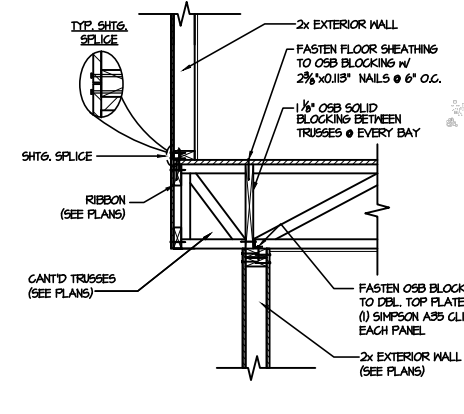
**2 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE**  
SCALE: 3/4"=1'-0"



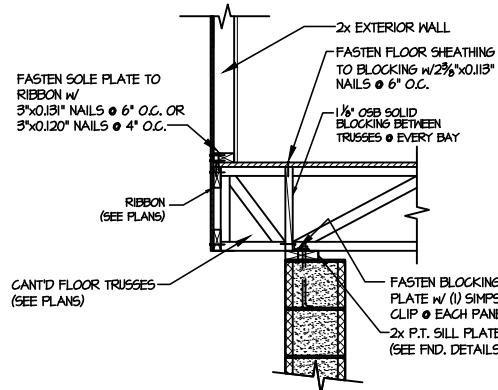
**3 SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARWALL**  
SCALE: 3/4"=1'-0" SHTS. OPPOSITE PAGES



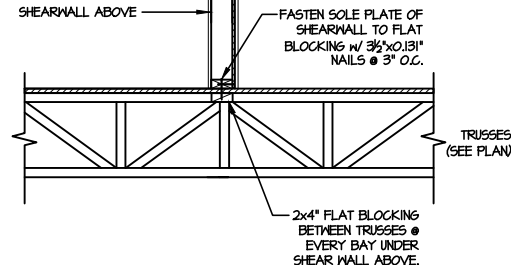
**4 SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARWALL**  
SCALE: 3/4"=1'-0" SHTS. ON SAME PAGE



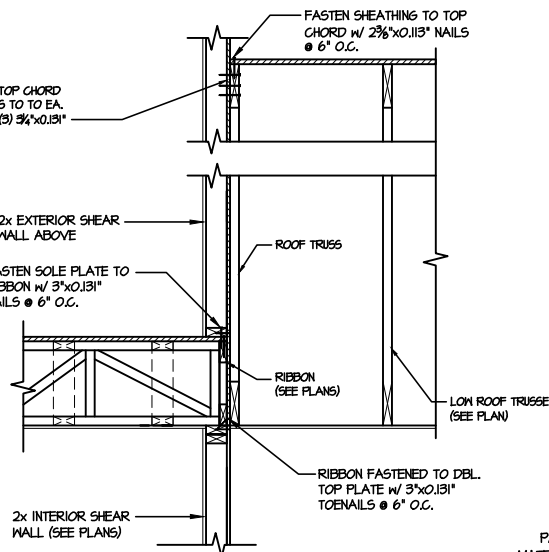
**5 SHEAR TRANSFER DETAIL BETWEEN FLOORS @ CANT'D EXT. WALL**  
SCALE: 3/4"=1'-0" PERPENDICULAR FRAMING



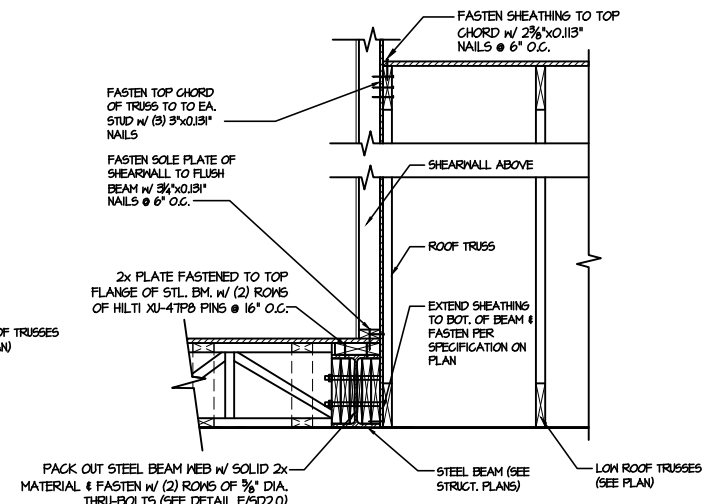
**6 SHEAR TRANSFER DETAIL @ CANT'D EXTERIOR WALL**  
SCALE: 3/4"=1'-0"



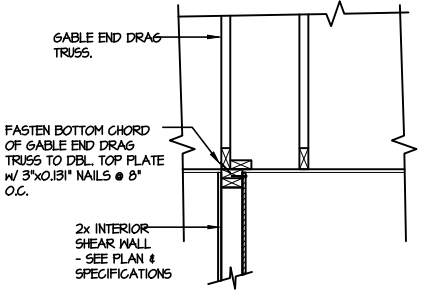
**7 SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL ABOVE**  
SCALE: 3/4"=1'-0" PERPENDICULAR FRAMING



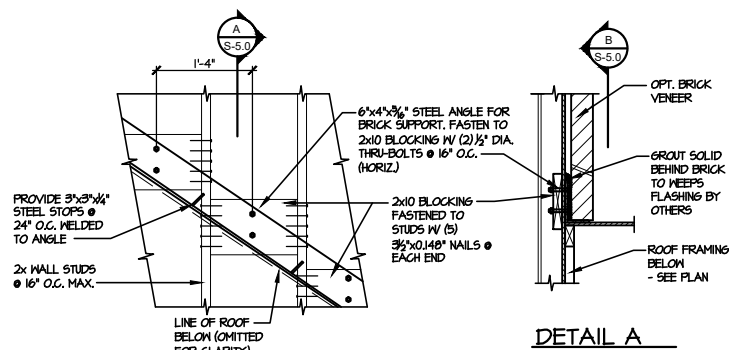
**8 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL**  
SCALE: 3/4"=1'-0"



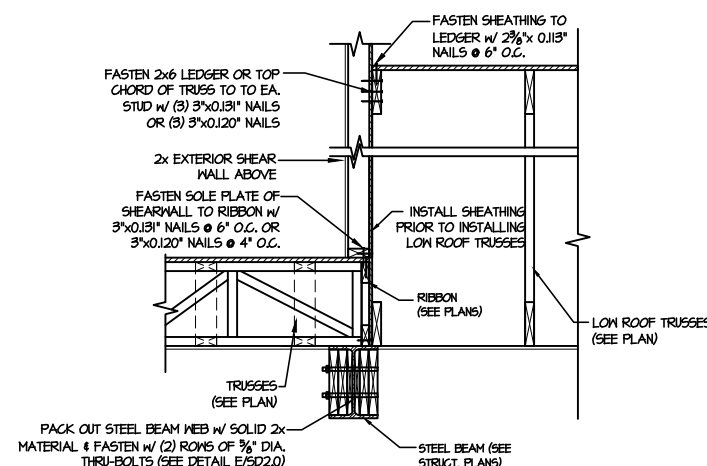
**9 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE**  
SCALE: 3/4"=1'-0"



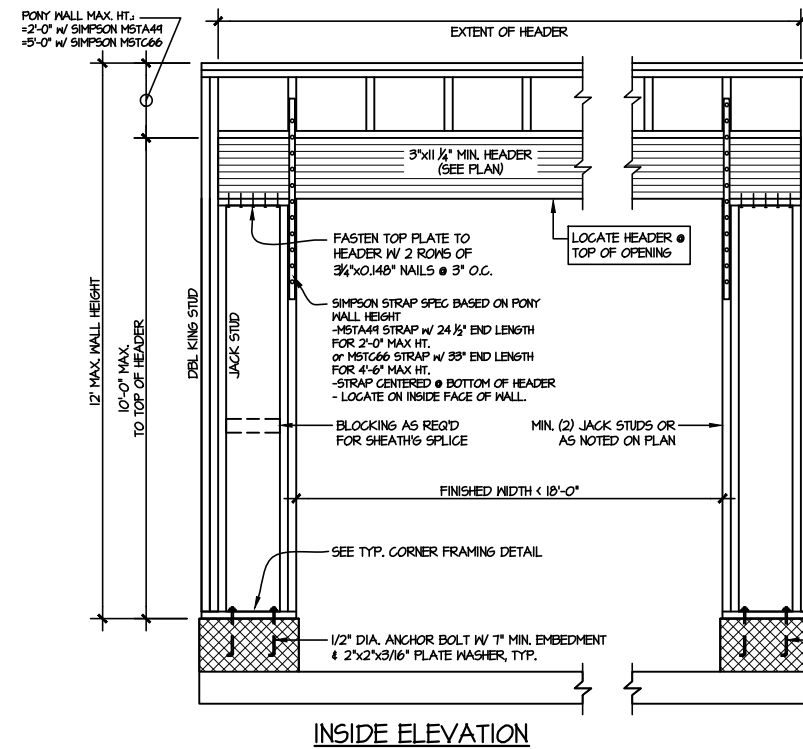
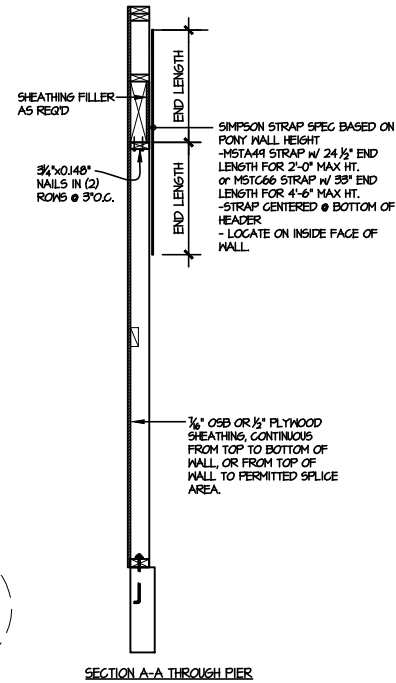
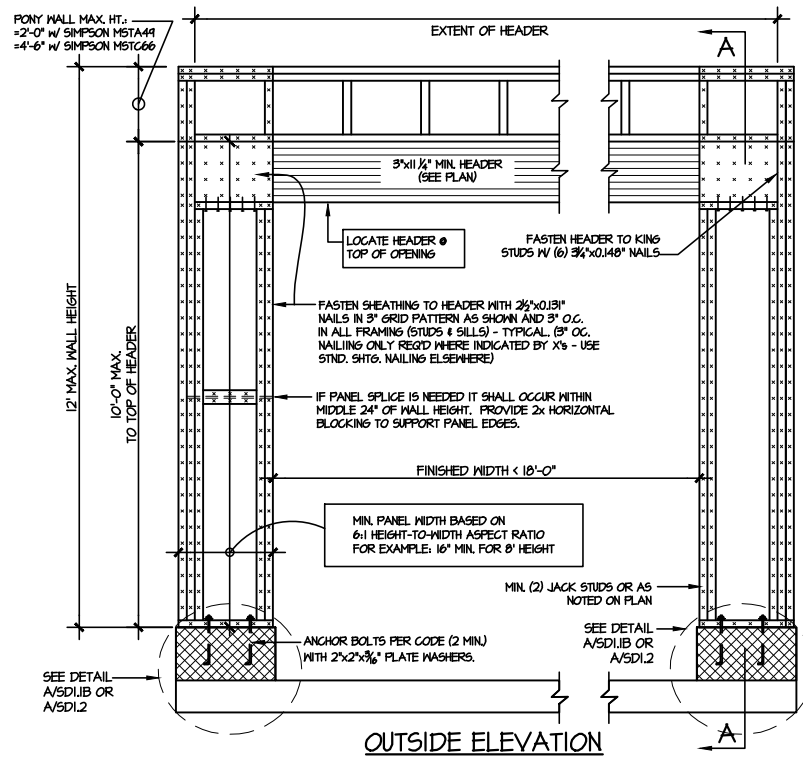
**10 INTERIOR GABLE END DETAIL**  
SCALE: 3/4"=1'-0"



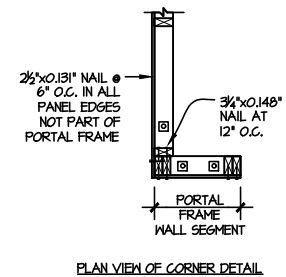
**11 DETAIL SUPPORT OF BRICK VENEER**  
SCALE: 3/4"=1'-0"



**12 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL**  
SCALE: 3/4"=1'-0"



NOTE: ALL SHEATHABLE AREAS OF  
EXTERIOR WALL SHALL BE FULLY  
SHEATHED WITH 1/2" PLYWOOD OR 1/4" OSB



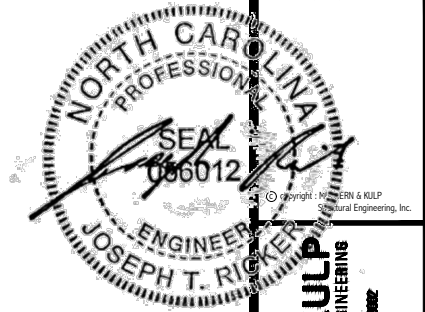
ALTERNATIVE TO 1/2" DIA. ANCHOR BOLT.  
1) 1/2" DIA. THREADED ROD EPOXY SET  
W/ 4 1/2" EMBED. (MIN) UTILIZING HILTI HY200  
EPOXY ANCHORING SYSTEM (OR EQUAL)

TWO SIDED GARAGE PORTAL FRAME BRACING  
ELEVATION ON CMU STEM

2

SCALE: N.T.S.

SCALE: N.T.S.



seal: 3/5/25

**MULHERN+KULP**  
RESIDENTIAL STRUCTURAL ENGINEERING  
300 Duncasville Ave. Building 4 - Jambler, PA 15067  
P: 724-948-8281 • mulhern+kulp.com  
NC LICENSE #C-3825



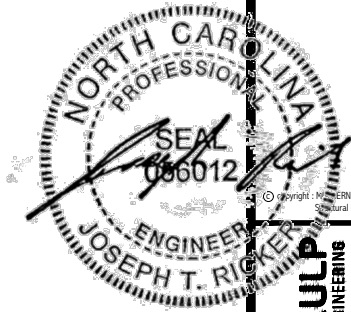
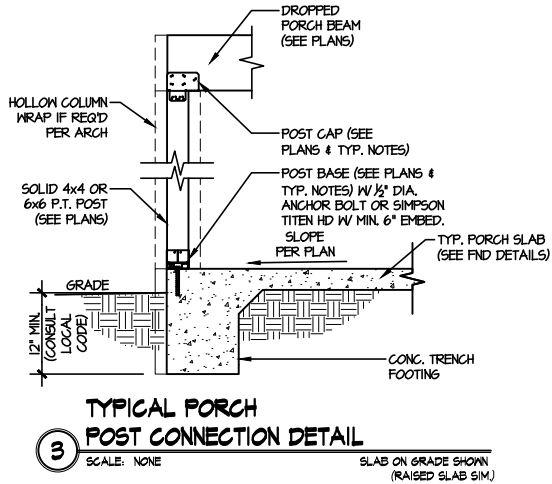
M&K project number:  
126-23061  
project mgr: JTR  
drawn by: KJN  
issue date: 03-05-25

REVISIONS:  
date: initial:

**DRB**  
**HOMES**

FRAMING DETAILS  
BLAKE POND COMMUNITY  
LOT 114 - STONEFIELD 4  
RALEIGH, NC

sheet:  
**SD2.2**



M&K project number:  
126-23061

project mgr: JTR  
drawn by: KJN  
issue date: 03-05-25

REVISIONS:  
date: initial:

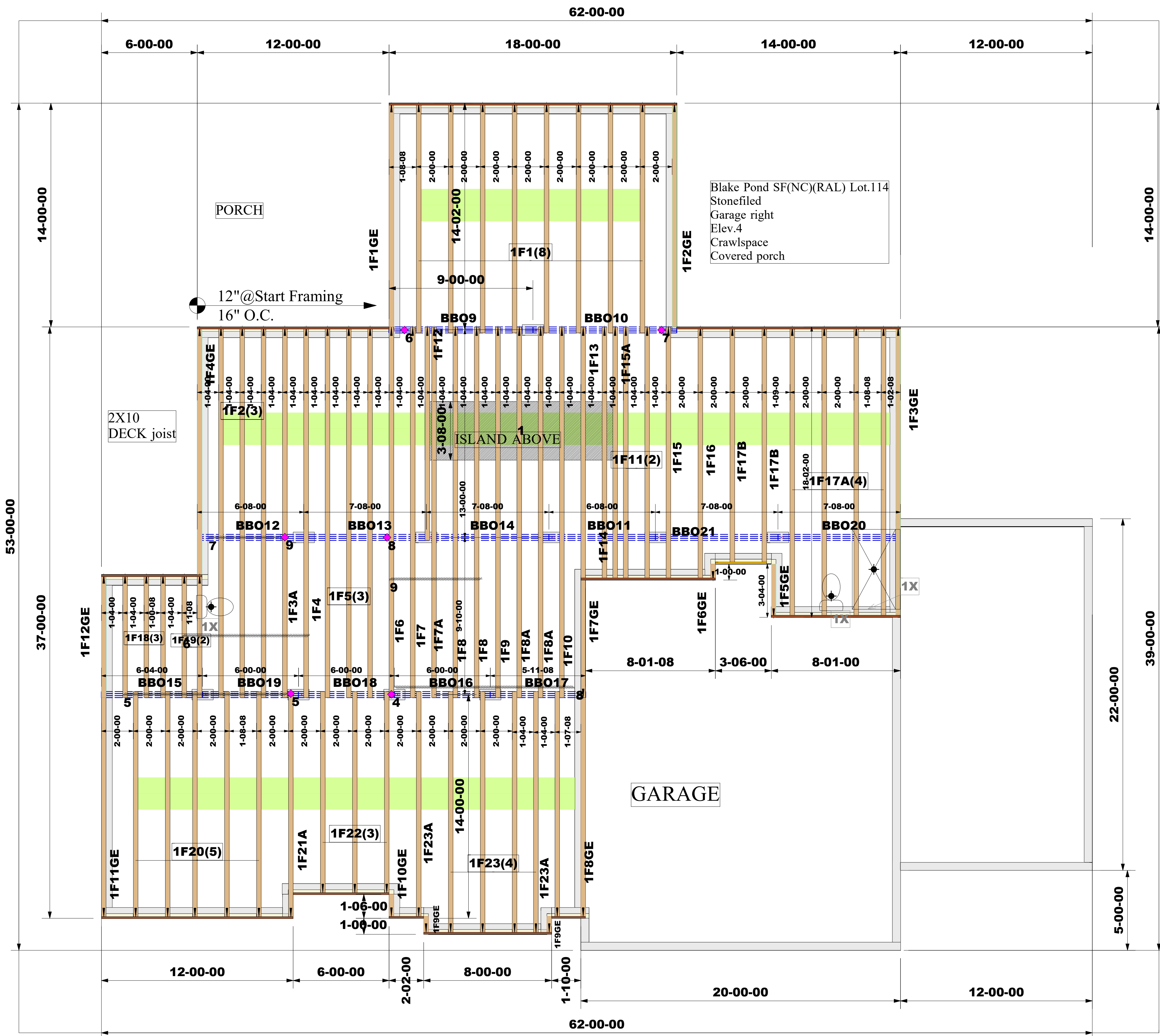


FRAMING DETAILS  
BLAKE POND COMMUNITY  
LOT 114 - STONEFIELD 4  
RALEIGH, NC

sheet:  
**SD3.0**



ROOF TRUSS LAYOUT  
SCALE: NTS



1st FLOOR FRAMING

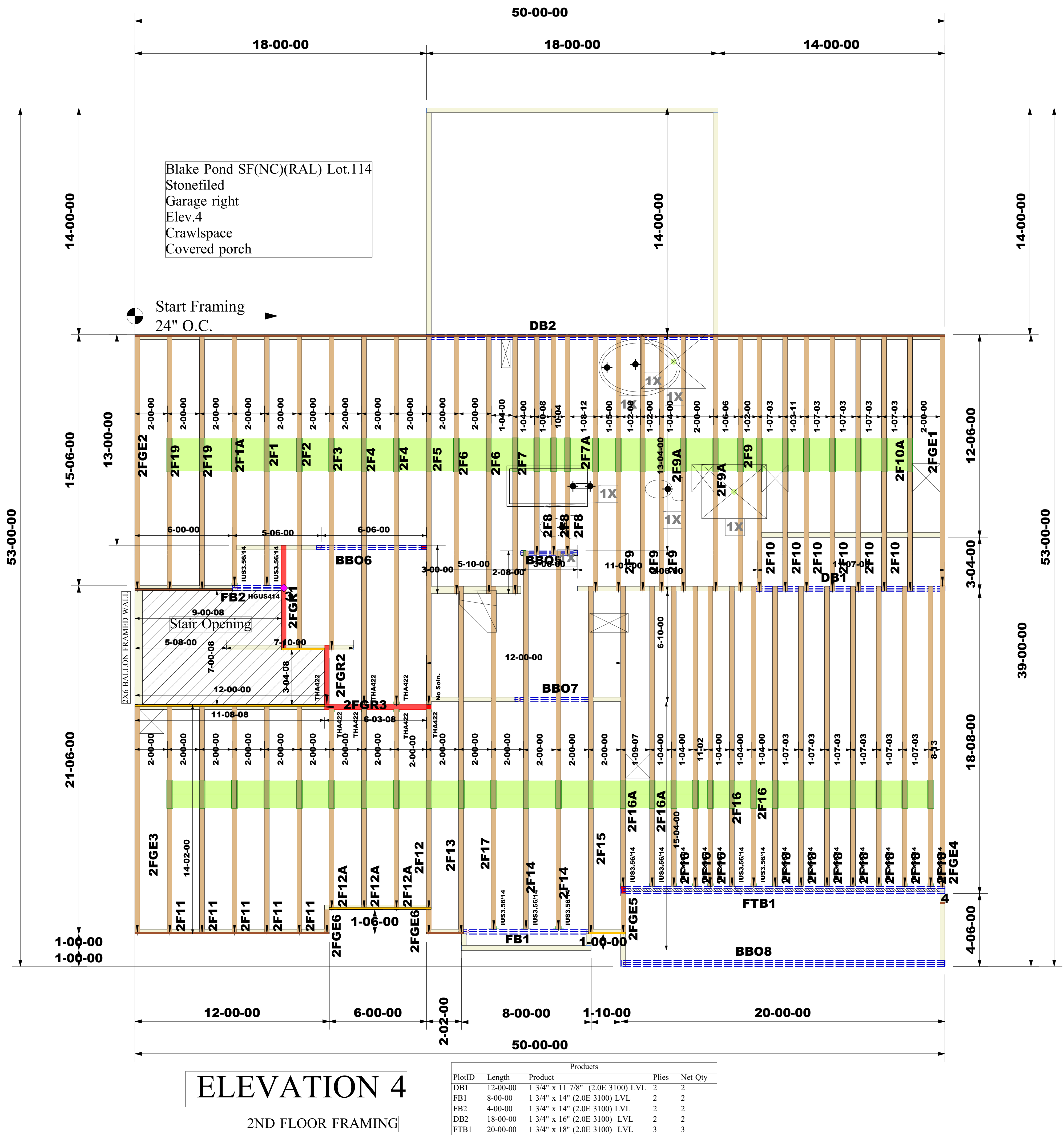
OPT BED 5/W BATH 3 AND GARAGE SIDELOAD W/3RD CAR CRAWL SPACE

Job #:	2502-2593	WARNING:	NOTE:	Customer: DRB Raleigh	<div><div><div>TPI</div><div>Third-Party Quality Assurance Licensee</div><div>TPI Plant W974</div></div><div><div>Structural, LLC</div><div>201 Poplar Avenue</div><div>Thurmont, MD 21788</div><div>Phone: 301-271-7591</div></div></div>
Designer:	Sai Kris	CONVENTIONAL FRAMING, ERECTION AND/OR PERMANENT BRACING IS NOT THE RESPONSIBILITY OF THE TRUSS DESIGNER, PLATE MANUFACTURER, OR THE TRUSS MANUFACTURER. PERSONS ERECTING TRUSSES ARE CAUTIONED TO SEEK PROFESSIONAL ADVICE REGARDING THE ERECTION BRACING WHICH IS ALWAYS REQUIRED TO PREVENT TOPPLING AND DOMINATING DURING ERECTION, AND PERMANENT BRACING WHICH MAY BE REQUIRED IN SPECIFIC APPLICATIONS. SEE "BRACING WOOD TRUSSES COMMENTARY AND RECOMMENDATIONS" (BCSI 1) FOR FURTHER INFORMATION.	IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PER REACTIONS SHOWN ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.	Job Name: Blake Pond SF Lot 00.0114 OWF	
Sales Rep:	Robbie Zarobinski	TRUSSES SHALL BE INSTALLED IN A STRAIGHT AND PLUMB POSITION WHERE NO SHEATHING IS APPLIED DIRECTLY TO TOP AND/OR BOTTOM CHORDS, THEY SHALL BE BRACED AS SPECIFIED ON THE ENGINEERED DESIGN. TRUSSES SHALL BE HANDLED WITH REASONABLE CARE DURING ERECTION TO PREVENT DAMAGE OR PERSONAL INJURY.	THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN WTCA 1-1995 "DESIGN RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTION DESIGN, DRAWINGS, DOCUMENTS INCLUDING THE INSTALLATION, AND BRACING OF TRUSSES MANUFACTURED BY THIS COMPANY.	Lot #: Lot 00.0114	
				Model Name: StonefieldBlake Pond SF Lot 00.0114 OWF	



## ROOF TRUSS LAYOUT

SCALE: NTS



PlotID	Length	Product	Pices	Net Qty
DB1	12-00-00	1 3/4" x 11 7/8" (2.0E 3100) LVL	2	2
FB1	8-00-00	1 3/4" x 14" (2.0E 3100) LVL	2	2
FB2	4-00-00	1 3/4" x 14" (2.0E 3100) LVL	2	2
DB2	18-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2
FTB1	20-00-00	1 3/4" x 18" (2.0E 3100) LVL	3	3

ROOF TRUSS LAYOUT  
SCALE: NTS  
FOR CONSTRUCTION



Structural, LLC  
201 Poplar Avenue  
Thurmont, MD 21788  
Phone: 301-271-7591

Customer: DRB Raleigh  
Job Name: Blake Pond SF Lot 00.0114 Roof  
Lot #: Lot 00.0114  
Model Name: Stonefield



**NOTE:**  
IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PER REACTIONS SHOWN ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.  
  
THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN WTCA 1-1995 "DESIGN RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTION DESIGN, DRAWINGS, DOCUMENTS INCLUDING THE INSTALLATION, AND BRACING OF TRUSSES MANUFACTURED BY THIS COMPANY.

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Job #:  
2502-2596

Designer:  
Beckett Tayler  
Sales Rep:  
Robbie Zarobinski

