

**ENTRY DETAIL**

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

**FRONT ELEVATION "B"**

PROVIDE HANDRAIL  
WHEN REQUIRED BY  
CODE



**REAR ELEVATION**

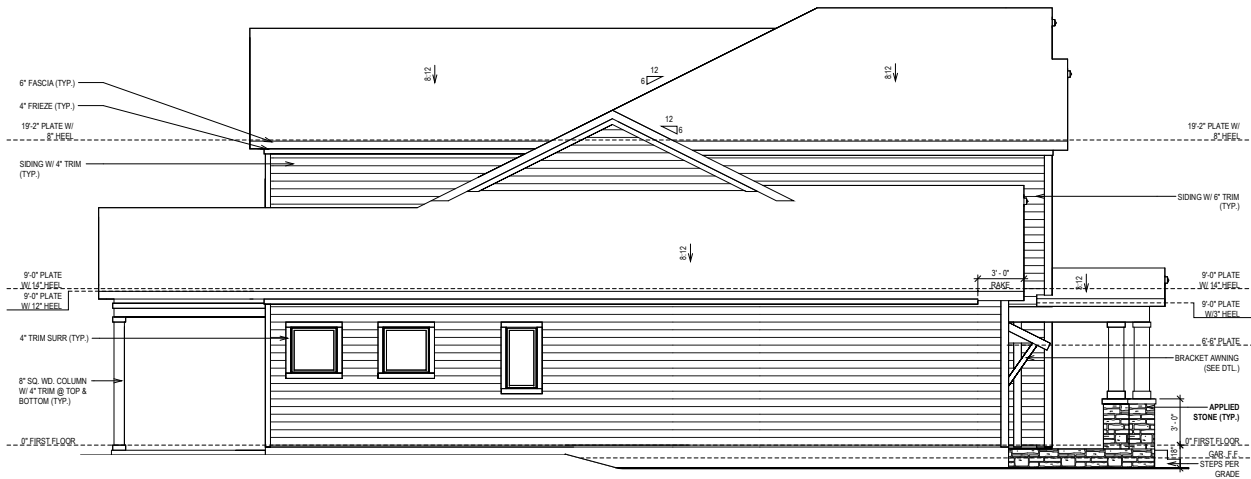
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Date: 09/21/2020 Rev: 5/31/23 EB

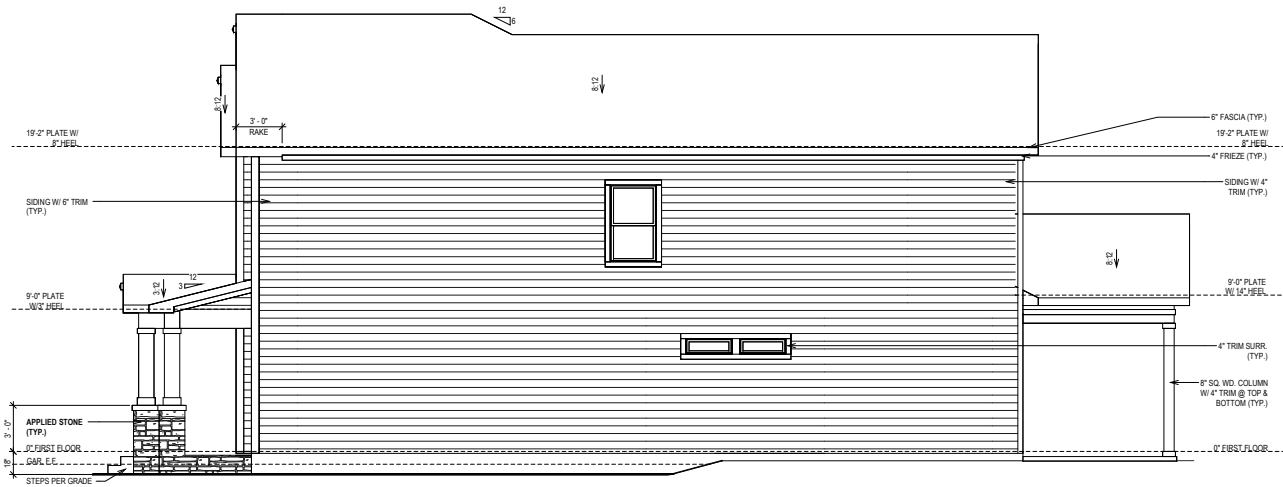
Proj. No.: 126  
Lot: 3277  
Block: 0126  
Job No.: 0126  
Sect:

**SERENITY 65' (IM)**  
**383 SERENITY WALK PARKWAY**  
**FUQUAY VARINA, NC**

**SOUTH**  
**B329-B**  
**ELV-1**  
**BUCKHORN**  
**RALEIGH**



**SIDE ELEVATION**



**SIDE ELEVATION**

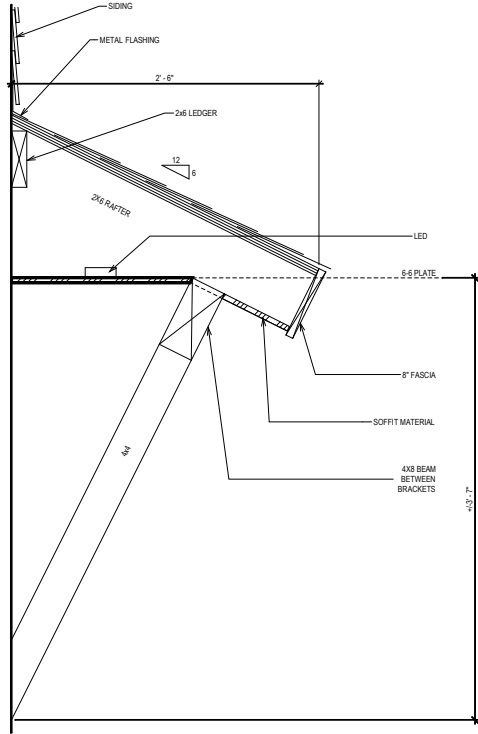
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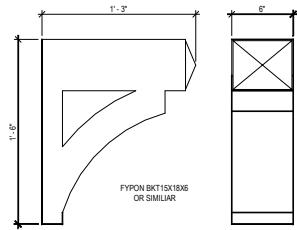
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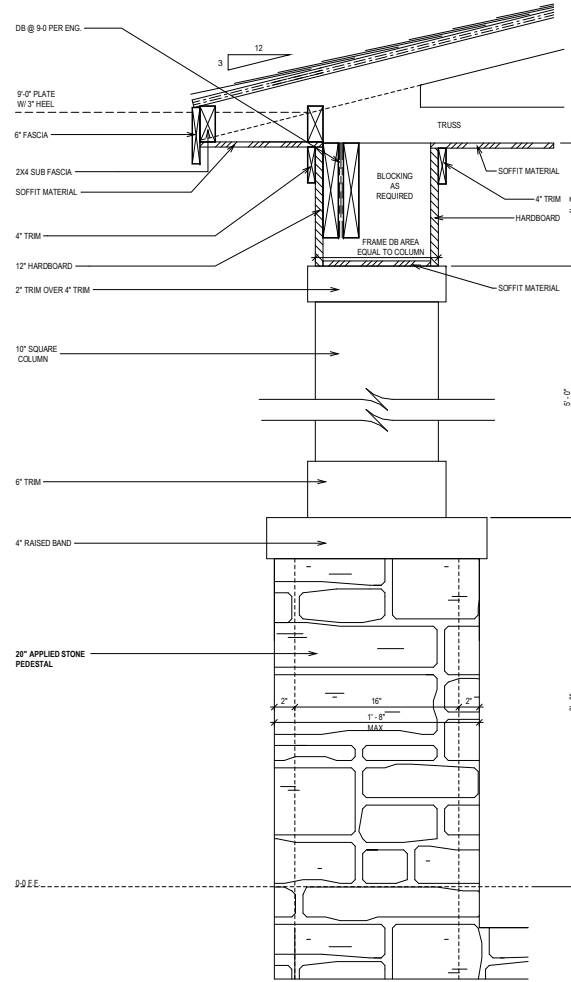
**AWNING DETAIL W/ BEAM**

SCALE: 1" = 1'-0"



**BRACKET DETAIL**

SCALE: 1" = 1'-0"



**CORNICE A DETAIL**

SCALE: 1" = 1'-0"

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**SHEET INDEX:**

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**1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951**  
**www.kse-eng.com (215) 804-4449**

**B329 BUCKHORN**  
**SERENITY, LOT #126**

**RALEIGH, NORTH CAROLINA**

THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. THIS COORDINATION IS NOT THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SER). SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS. IT IS THE INTENT OF THE ENGINEER LISTED ON THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO REVIEW ALL OF THE INFORMATION CONTAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ANY PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS.

**DESIGN SPECIFICATIONS:**

DESIGN BUILDING CODE (REFERRED TO HEREIN AS "THE BUILDING CODE"):  
 • 2018 NORTH CAROLINA RESIDENTIAL CODE. WALL BRACING PER INTERNATIONAL RESIDENTIAL CODE 2015 EDITION.

DESIGN LIVE LOADS:  
 • ROOF = 20 PSF (LOAD DURATION FACTOR=1.25)  
 • UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)  
 • HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 30 PSF  
 • FLOOR = 40 PSF  
 • FLOOR (SLEEPING AREAS) = 30 PSF  
 • DECK/BALCONY = 40 PSF  
 • STAIRS = 40 PSF

DESIGN DEAD LOADS:  
 • ROOF TRUSS = 17 PSF (TC=7, BC=10)  
 • FLOOR TRUSS = 15 PSF (TC=10, BC=5)  
 • FLOOR JOIST = 10 PSF  
 • STANDARD BRICK = 40 PSF  
 • QUEEN ANNE BRICK = 25 PSF

\*NOTE: STRUCTURAL FRAMING HAS NOT BEEN DESIGNED FOR TILE, GRANITE, MARBLE OR OTHER MATERIALS HEAVIER THAN THE ABOVE LOADING UNLESS SPECIFICALLY NOTED ON PLANS.\*

DESIGN WIND LOADS:  
 • ULTIMATE WIND SPEED = 115 MPH  
 • EXPOSURE CATEGORY = B

ASSUMED SOIL BEARING CAPACITY = 2000 PSF

ASSUMED LATERAL SOIL PRESSURE = 45 PCF

FROST DEPTH = 12" MINIMUM

SEISMIC DESIGN CATEGORY = B

ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:

- TJI 210 SERIES (SERIES AND SPACING PER PLANS)
- LSL: E=1,550,000 PSI, F<sub>b</sub>=2,325 PSI, F<sub>v</sub>=310 PSI, F<sub>c</sub>=900 PSI
- LVL: E=2,000,000 PSI, F<sub>b</sub>=2,600 PSI, F<sub>v</sub>=285 PSI, F<sub>c</sub>=750 PSI
- PSL: E=2,100,000 PSI, F<sub>b</sub>=2,900 PSI, F<sub>v</sub>=290 PSI, F<sub>c</sub>=625 PSI



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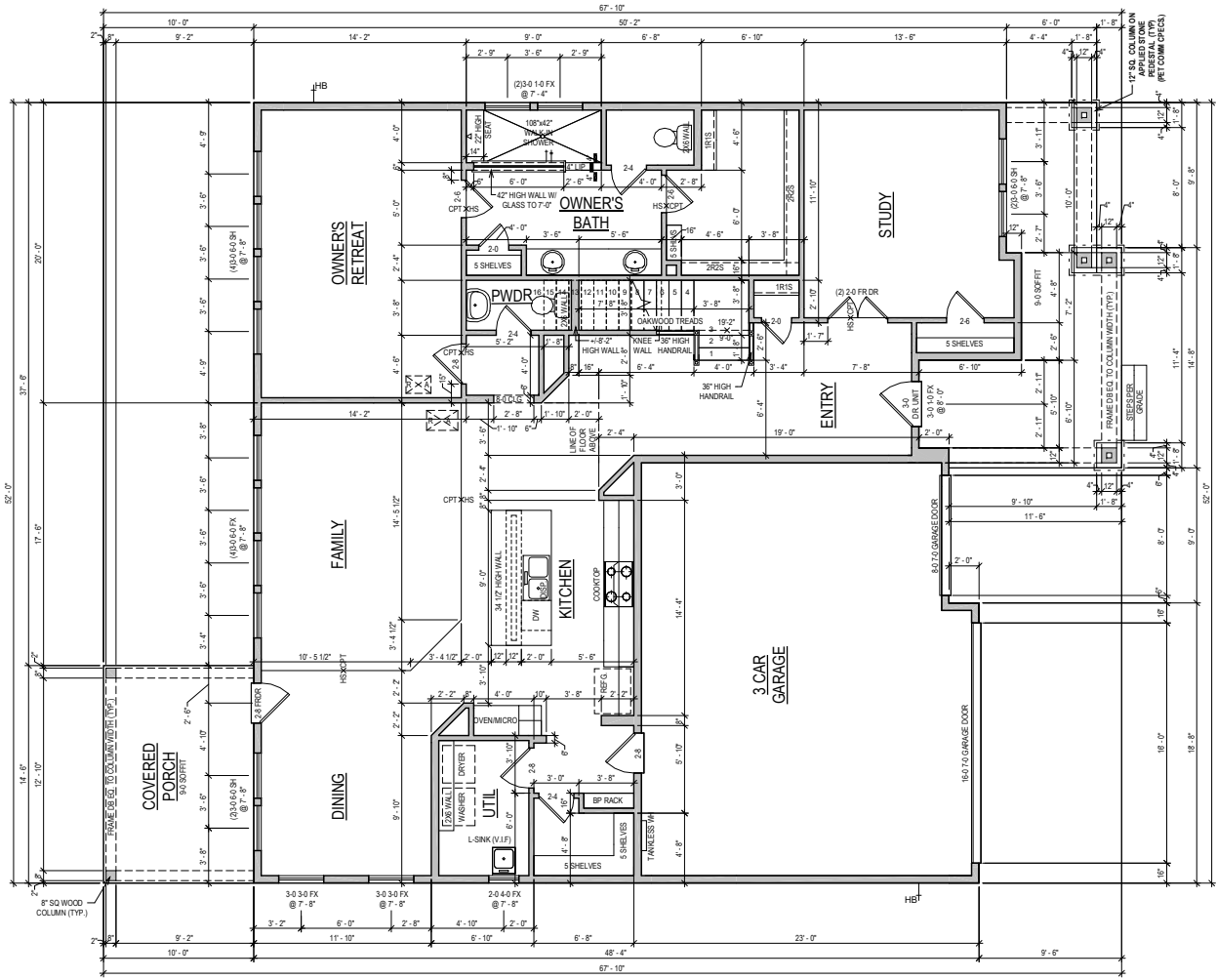
Cover Sheet  
 Serenity, Lot #126  
 B329 Buckhorn Model  
 Serenity  
 Raleigh, North Carolina

Project #: 047-20009  
 Designed By: JPS  
 Checked By:  
 Issue Date: 12/4/23  
 Re-Issue:  
 Scale: 1/8"=1'-0" @ 11x17  
 1/4"=1'-0" @ 22,34



S-0





**FIRST FLOOR**

**GENERAL REQUIREMENTS**

- SLOPED SURFACE REQUIREMENTS**  
 ALL PATIOS TO SLOPE 1/4" PER FOOT  
 GARAGE FLOOR TO BE SLOPED 1/8" PER FOOT TOWARDS VEHICLE ENTRY DOOR  
 ROOF DECKS AND BALCONIES TO BE SLOPED 1/4" PER FOOT TOWARDS RELIEF POINTS
- RAILING REQUIREMENTS**  
 FINISHED HANDRAIL REQUIRED AT STAIRS WITH 4 OR MORE RISERS  
 FINISHED HANDRAIL HEIGHT BETWEEN 34" AND 36" MEASURED VERTICALLY ABOVE TREAD NOSING  
 FINISHED GUARDRAILS REQUIRED AT DECKS, BALCONIES AND WALKWAYS THAT ARE 30" OR GREATER ABOVE GRADE AND BE AT A MINIMUM OF 36" IN HEIGHT  
 FINISHED GUARDRAIL AND HANDRAIL SPINDLES MUST BE SPACED SO A 4" SPHERE WILL NOT PASS THROUGH.

**NOTE: ALL 1ST FLR. CEILING HEIGHTS 9'-0" UNLESS NOTED OTHERWISE**

**ADVANCED FRAMING: 2X6 EXTERIOR PERIMETER WALLS & ALL INSULATED WALLS, UNLESS NOTED OTHERWISE**

- OPTIONAL LIST**
- COOKTOP KITCHEN
  - SUPER SHOWER @ OWNERS BATH
  - COVERED PORCH
  - FRONT PORCH
  - FRAMES @ STUDY
  - DOOR @ OWNERS GARAGE
  - FRONT PORCH PLUMBING @ GARAGE
  - OWNER'S BATH
  - HARD SURFACE TREADS @ STAIRS
  - BANKING @ STAIRS
  - FRAMES @ OWNERS GARAGE
  - FRONT PORCH PLUMBING @ GARAGE

| PLAN SQFT            |                |
|----------------------|----------------|
| <b>SLAB</b>          |                |
| 1ST FLOOR            | 1895 SF        |
| COVERED PORCH        | 145 SF         |
| FRONT PORCH          | 282 SF         |
| GARAGE               | 613 SF         |
| <b>TOTAL SLAB</b>    | <b>2855 SF</b> |
| <b>FRAMING</b>       |                |
| 1ST FLOOR            | 1895 SF        |
| COVERED PORCH        | 1080 SF        |
| COVERED PORCH        | 145 SF         |
| FRONT PORCH          | 282 SF         |
| GARAGE               | 613 SF         |
| <b>TOTAL FRAMING</b> | <b>3935 SF</b> |

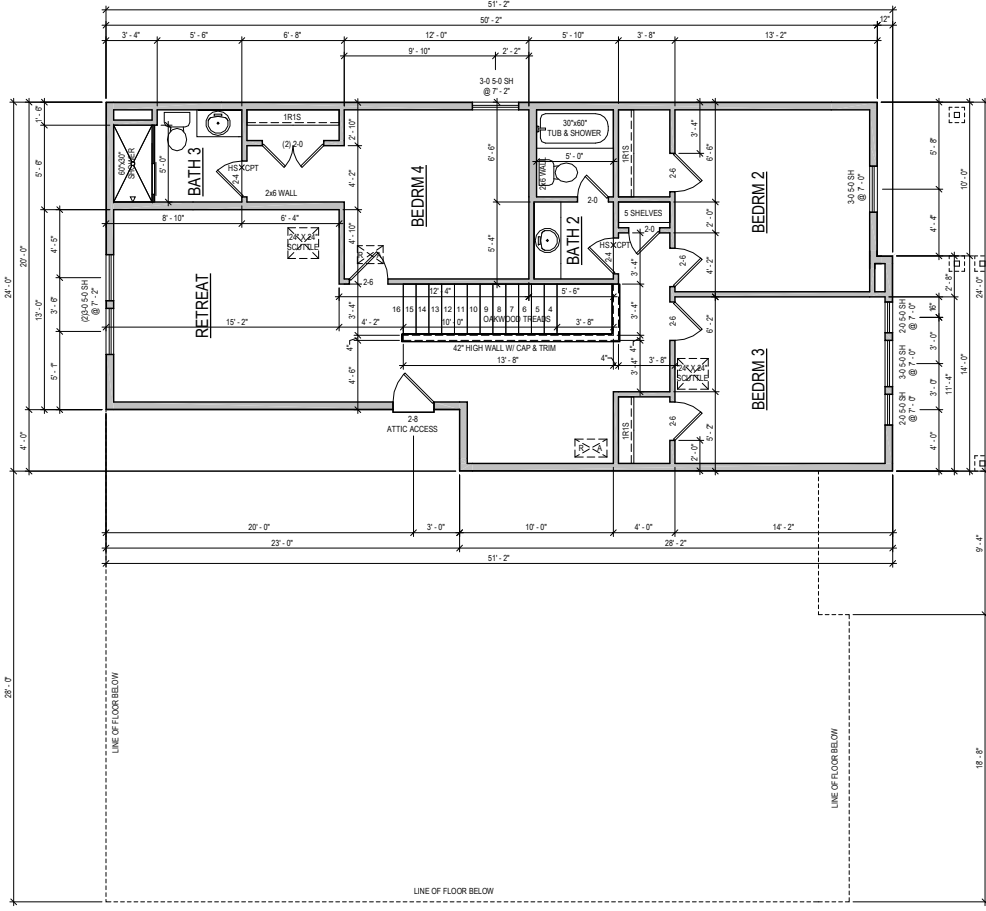
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**FUQUAY VARINA, NC**

**SOUTH**  
**B329-B**  
**PLN-1**  
**BUCKHORN**  
**RALEIGH**



**SECOND FLOOR**

NOTE: ALL 2ND FLR. CEILING HEIGHTS  
9'-0" UNLESS NOTED OTHERWISE

ADVANCED FRAMING: 2X6 EXTERIOR  
PERIMETER WALLS & ALL INSULATED  
WALLS UNLESS NOTED OTHERWISE

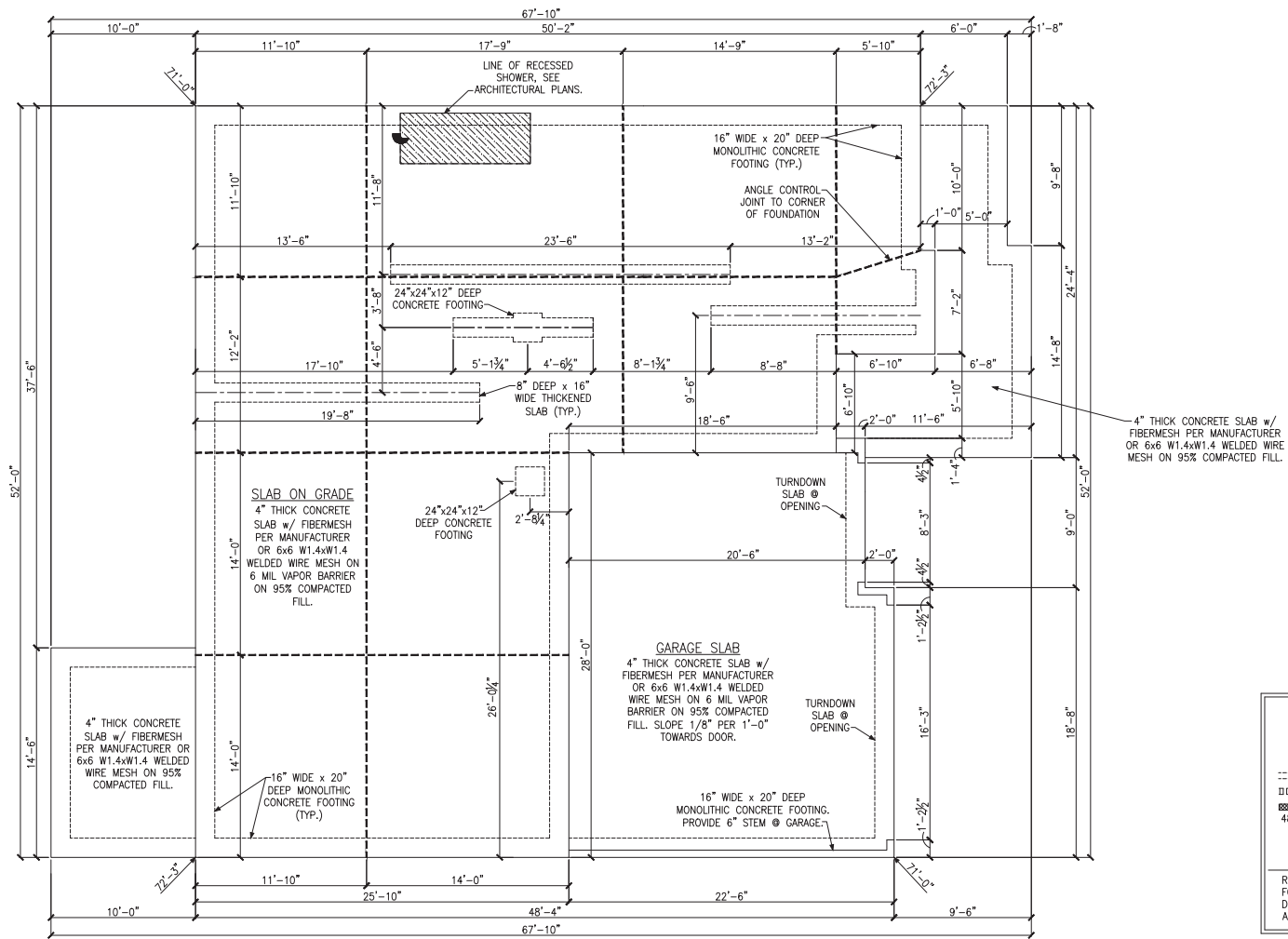
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**LEGEND**

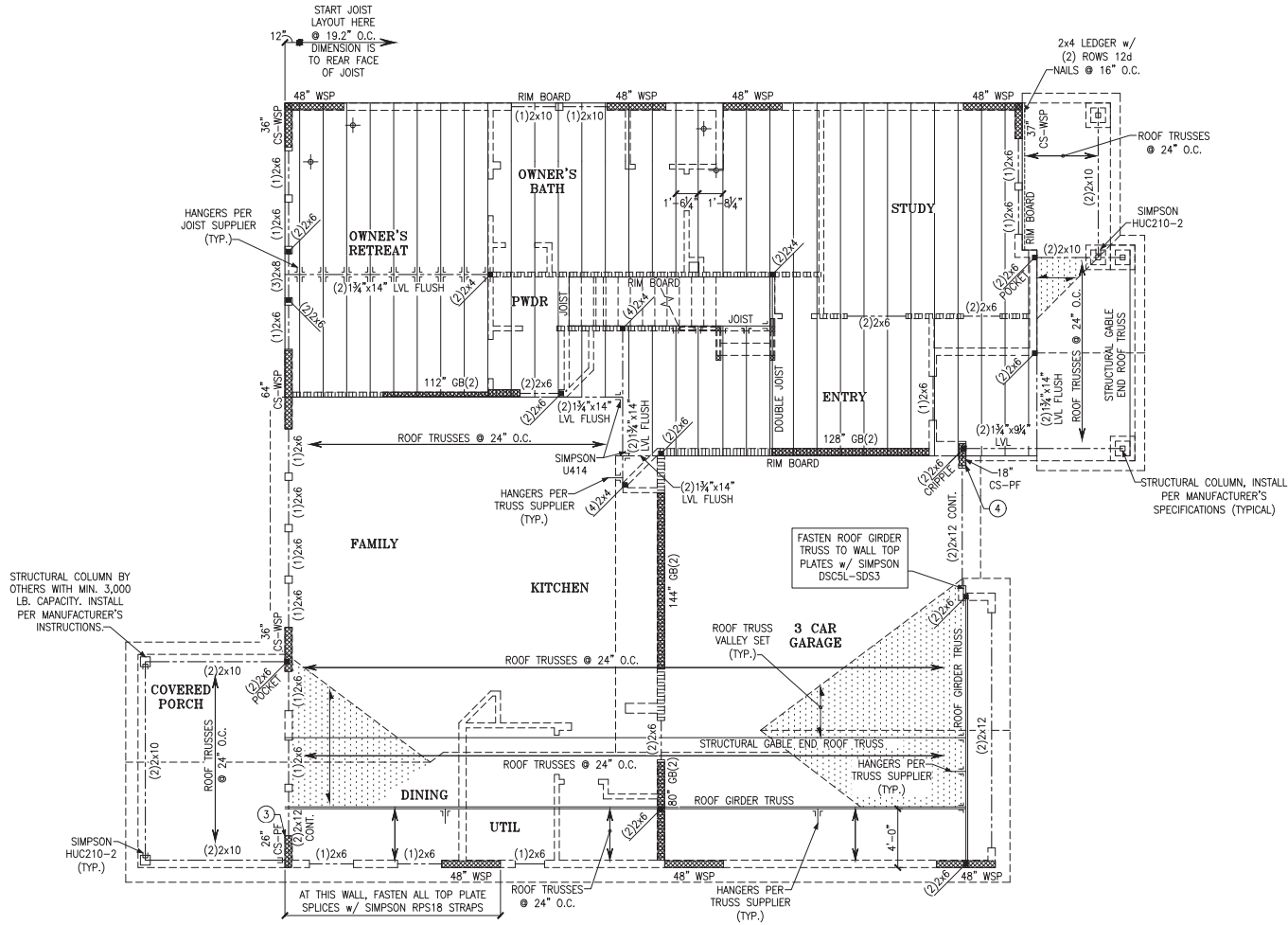
- ★ PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- ▬ BEARING WALL ABOVE
- ▬ INTERIOR BEARING WALL
- ▬ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
- 48" WSP

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES, TYPICAL DETAILS AND ADVANCED FRAMING NOTES AND DETAILS

MONOLITHIC SLAB FOUNDATION PLAN







SECOND FLOOR FRAMING PLAN

**LEGEND**

- ★ PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- ▬ BEARING WALL ABOVE
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- ▬ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

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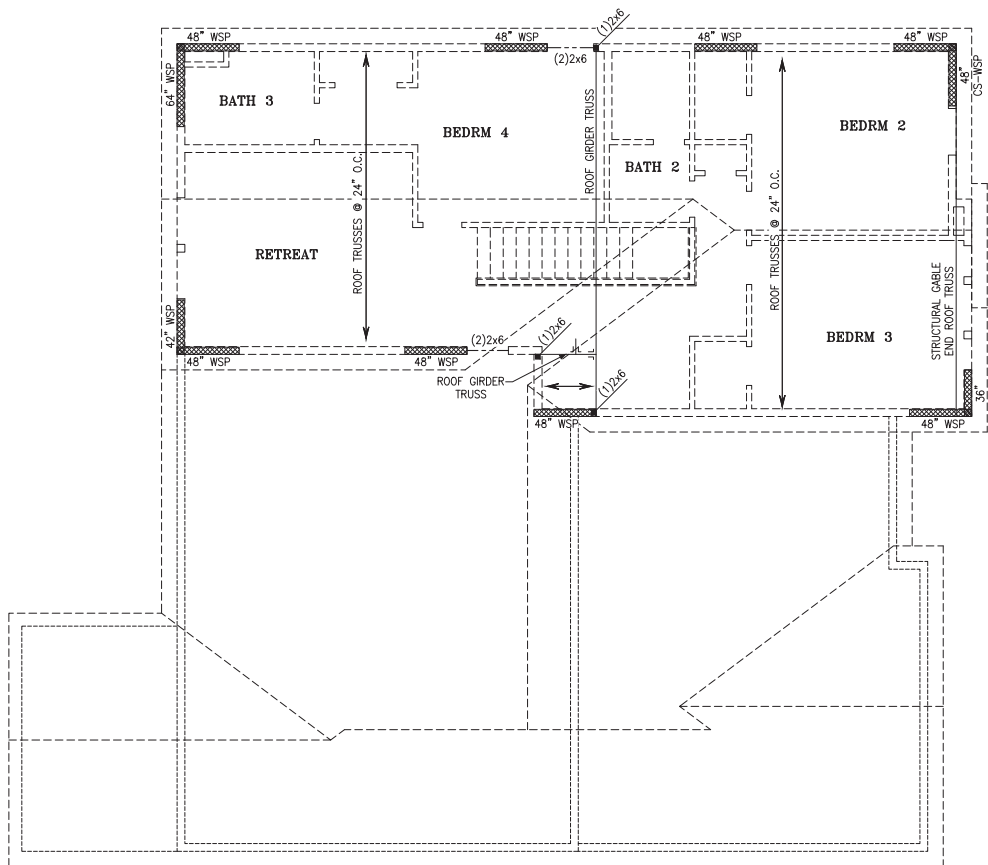
PLAN DESIGNED WITH 9' NOMINAL WALL PLATE HEIGHT

FLOOR FRAMING TO BE 14" DEEP TJI 210 SERIES OR EQUAL, SPACING PER MANUFACTURER.

**CRITICAL NOTES:**

- ③ INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A/SD-3.
- ④ INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.





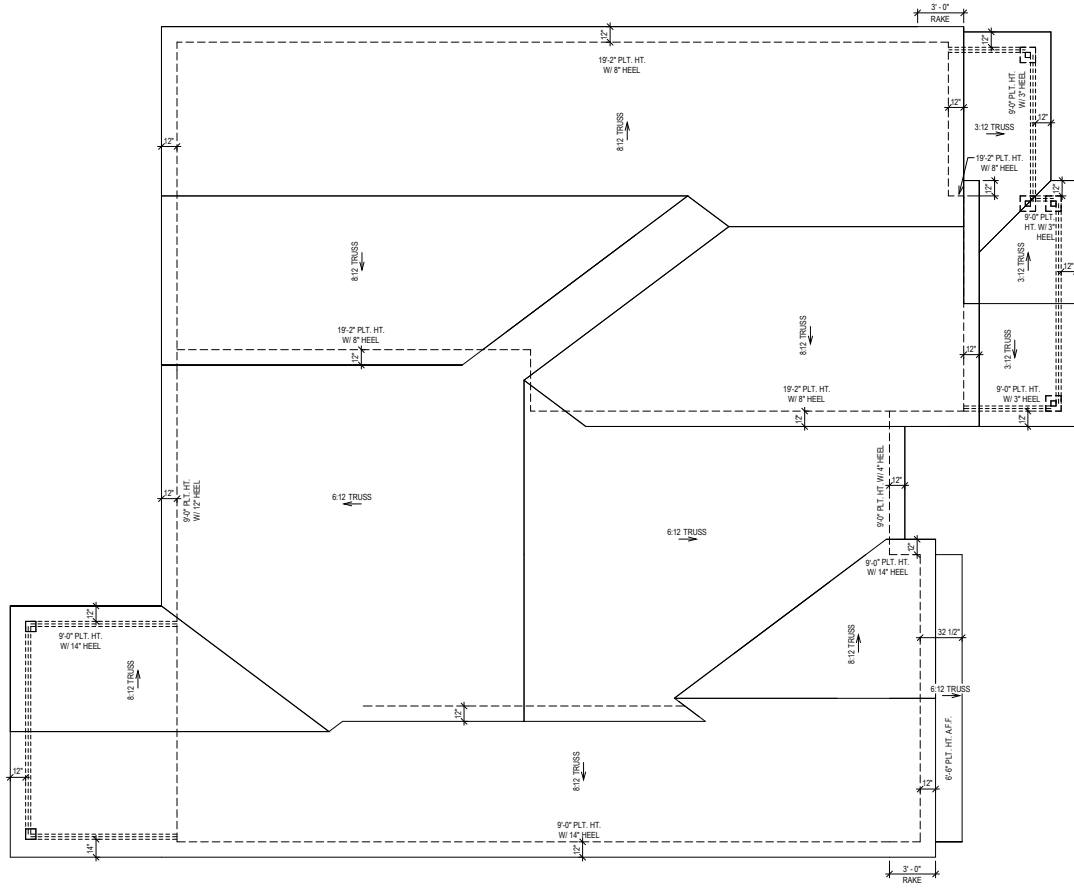
ROOF FRAMING PLAN

| LEGEND   |   |
|--|---|
|  | PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.  |
|  | BEARING WALL ABOVE  |
|  | INTERIOR BEARING WALL   |
|  | BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS) |
|  | 48" WSP   |
| REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES, TYPICAL DETAILS AND ADVANCED FRAMING NOTES AND DETAILS |   |
| PLAN DESIGNED WITH 9' NOMINAL WALL PLATE HEIGHT  |   |



Roof Framing Plan  
 Serenity, Lot #126  
 B329 Buckhorn Model  
 Serenity  
 Raleigh, North Carolina

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ROOF PLAN

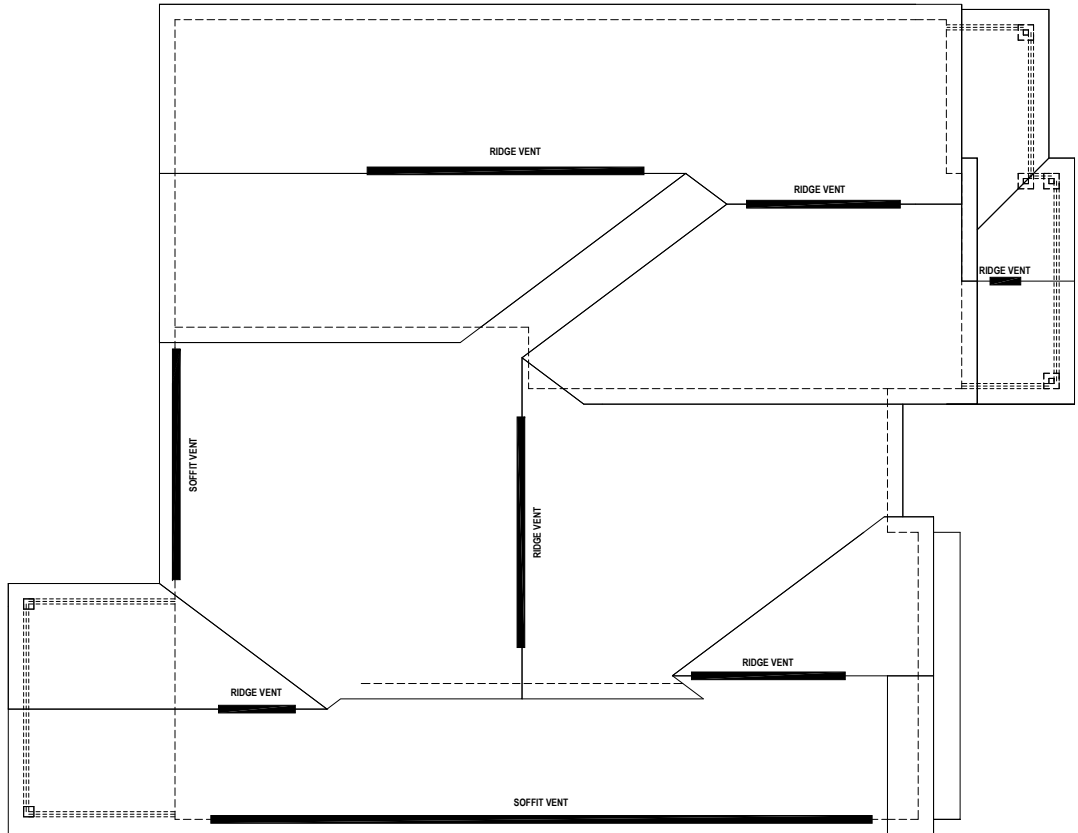
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ROOF PLAN CALCS

ROOF VENT CALCULATION:  
 ATTIC SPACE: 2855 SQ.FT.  
 REQUIRED VENTILATION: 1370 SQ.IN. REQ.  
 SOFFIT VENT PROVIDED: 58 LINEAL FEET  
 RIDGE VENT PROVIDED: 60 LINEAL FEET  
 AIR HAWK VENT PROVIDED: 0 UNITS  
 PROVIDED VENTILATION: 1370 SQ.IN.  
 50-80% IN UPPER PORTION: 79%

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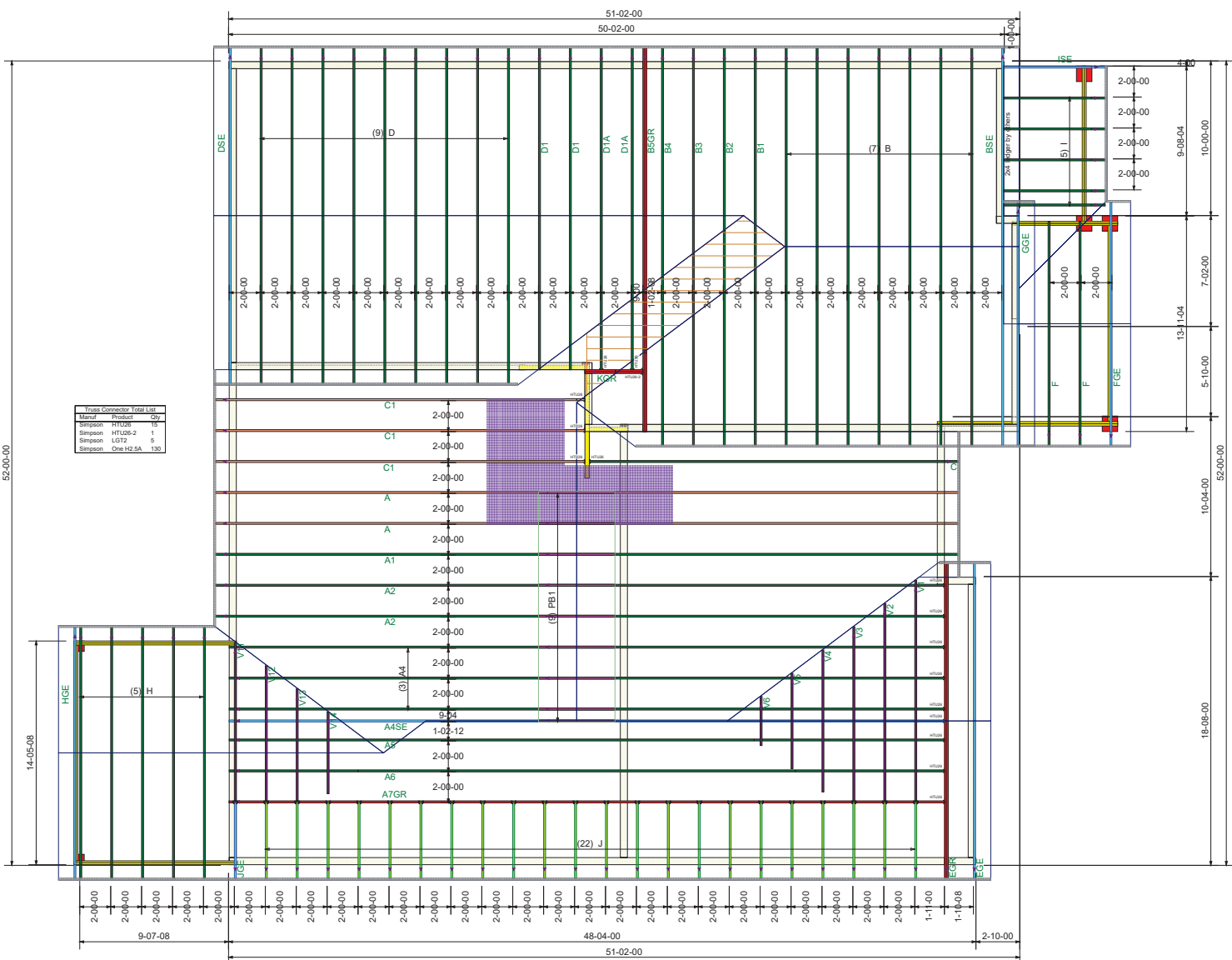
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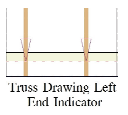
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 RALEIGH

**General Notes:** \* CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION. \*\* ALL BEARING POINTS MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS.

\* FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS. \* DAMAGED COMPONENTS SHOULD NOT BE INSTALLED UNLESS TOLD TO BY THE COMPONENT PLANT.



| Truss Connector Total List |            |     |
|----------------------------|------------|-----|
| Manuf                      | Product    | Qty |
| Simpson                    | HT128      | 2   |
| Simpson                    | HTL26-2    | 1   |
| Simpson                    | LG12       | 9   |
| Simpson                    | One 1/2 SA | 130 |



\*\* TRUSS TO TRUSS CONNECTIONS ARE FOC-MAILED, UNLESS NOTED OTHERWISE. \*\* DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH. \*\* DIMENSIONS ARE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS. \*\* REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS.

| Revisions |      |
|-----------|------|
| 00/00/00  | Name |
| 00/00/00  | Name |
| 00/00/00  | Name |
| 00/00/00  | Name |
| 00/00/00  | Name |

**THIS IS A TRUSS PLACEMENT PROGRAM ONLY.** These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for the design of the truss support systems and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Oro Drive, Madison, WI 53719

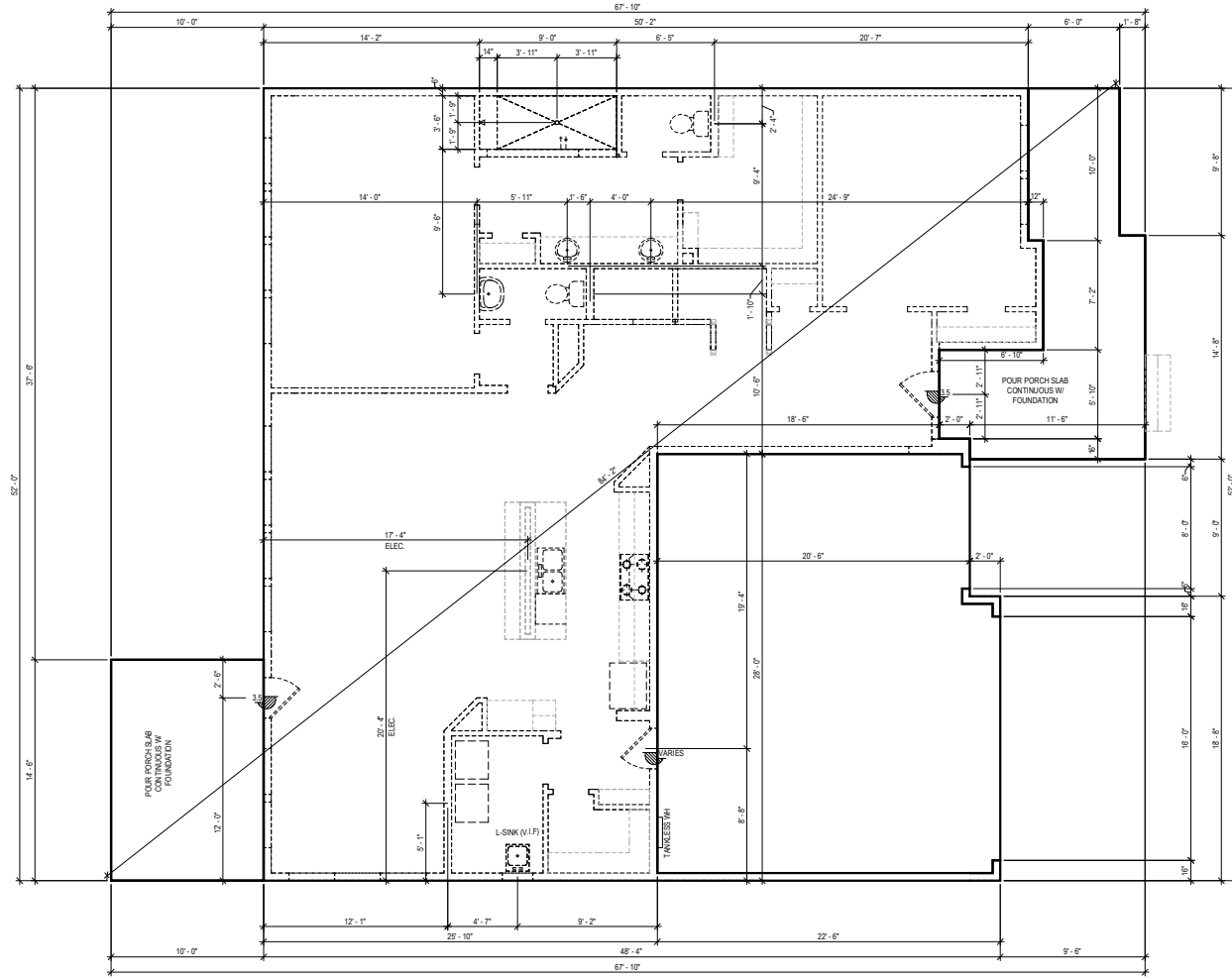


David Weekley  
126 Serenity  
**COMPONENT PLAN**

|                 |            |
|-----------------|------------|
| Scale:          | NTS        |
| Date:           | 12/20/2023 |
| Designer:       | ND         |
| Project Number: | 23120044   |
| Sheet Number:   |            |

1/1

\* TRIANGULAR SYMBOL NEAR END OF TRUSS INDICATES LEFT END OF TRUSS AS SHOWN ON INDIVIDUAL TRUSS DRAWINGS. \*\* PLUMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN. BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES. \*\* REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS.



**FIRST FLOOR**

SEE ENGINEERING FOR ANCHOR BOLT REQUIREMENTS

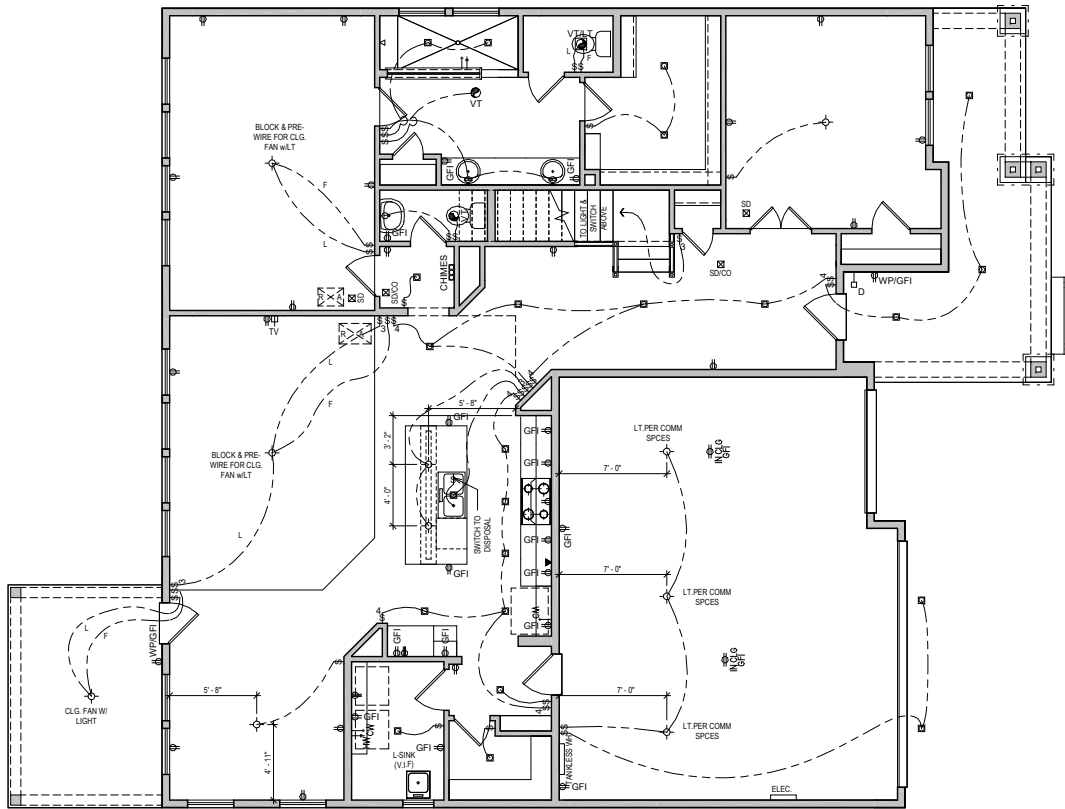
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**FIRST FLOOR**

ALL RECESS CANS SHOWN ON PLAN ARE LED PER COMMUNITY SPEC.

CITY SPECIFIC  
VT/ALT RECESSED CAN/ EXHAUST VENT COMBO

| UTILITY LEGEND |   |        |   |
|----------------|---|--------|---|
| ⊕              | 110V OUTLET                                       | ⊕      | ELEVATOR CALL BUTTON                      |
| ⊕              | 12" A.F.F. (U.N.O.)                               | ⊕      | RECESS CAN LIGHT (EYESBALL AS NOTED)      |
| GFI            | GROUND FAULT INTERRUPTOR (WEATHER PROOF AS NOTED) | VT     | EXHAUST VENT                              |
| ⊕              | 220V OUTLET (30" A.F.F. @ UTILITY)                | SD     | SMOKE DETECTOR (CARBON MONOXIDE AS NOTED) |
| ⊕              | HALF HOT OUTLET                                   | D      | DOOR BELL                                 |
| ⊕              | PHONE LINE  | CHIMES | DOOR BELL CHIMES                          |
| TV             | CABLE TELEVISION                                  | ELEC   | PANELBOARD W/ CIRCUIT BREAKERS            |
| \$             | STANDARD SWITCH (3 OR 4 WAY AS NOTED)             | HB     | HOSE BIB                                  |
| ⊕              | SURFACE MOUNTED LIGHT                             | GAS    | GAS TAP                                   |
| ⊕              | SURFACE MOUNTED LED LIGHT                         | CW, HW | COLD/HOT WATER SUPPLY                     |
| ⊕              | WALL MOUNTED LIGHT                                |        |   |

IN ALL HABITABLE ROOMS LIGHT BOXES MUST BE FAN RATED

**MID-ATLANTIC General Notes**

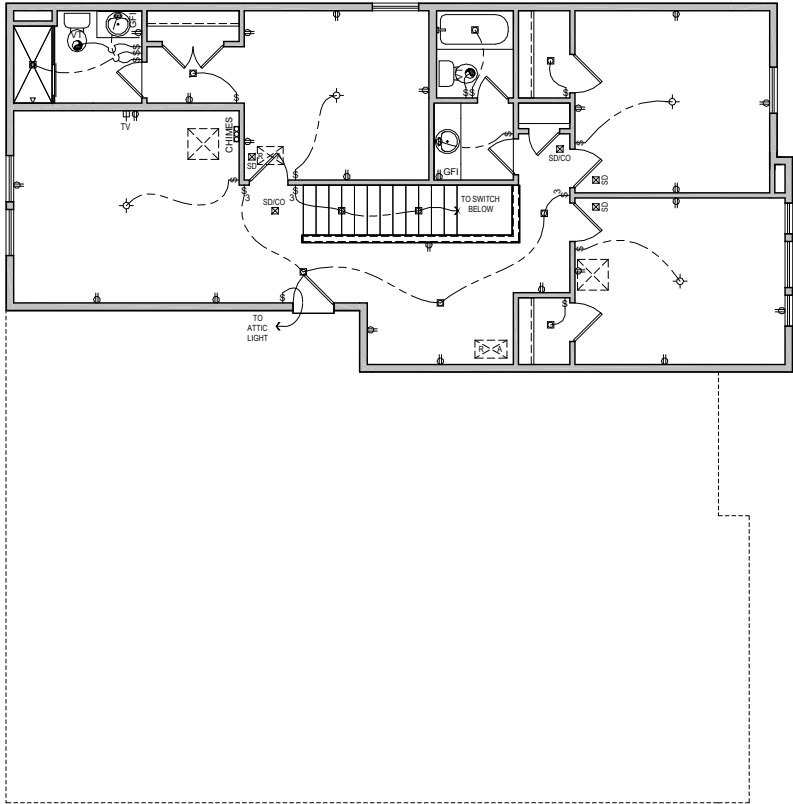
1. ALL ELECTRICAL PLUGS TO BE 9" TO TOP FROM FLOOR IN ROOMS WITH WALL MOLDINGS.
2. SWITCH FOR ATTIC LIGHT TO BE LOCATED OUTSIDE OF ATTIC SPACE, 12 INCHES FROM CEILING.
3. DO NOT RUN WIRES ON TOP OF JOISTS IN AREAS LIKELY TO HAVE DECKING IN ATTIC. (near disappearing items)
4. PROVIDE SMOKE DETECTORS IN EVERY BEDROOM. SEE SPECS FOR REQUIRED TYPE AND WIRING.
5. PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.
6. LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.

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**SECOND FLOOR**

| UTILITY LEGEND  |   |
|---|---|
| ⊕ 110V OUTLET<br>12" A.F.F. (U.N.C.)                          | ⊕ ELEVATOR CALL<br>BUTTON                         |
| ⊕ GFI<br>GROUND FAULT INTERRUPTOR<br>(WEATHER PROOF AS NOTED) | ⊕ RECESS CAN LIGHT<br>(EYEBALL AS NOTED)          |
| ⊕ 1/2<br>HALF HOT OUTLET                                      | ⊕ EXHAUST VENT                                    |
| ⊕ 220V OUTLET<br>(30" A.F.F. @ UTILITY)                       | ⊕ SMOKE DETECTOR<br>(CARBON MONOXIDE AS<br>NOTED) |
| ▽ PHONE LINE  | ⊕ DOOR BELL                                       |
| TV CABLE TELEVISION   | CHIMES<br>⊕ DOOR BELL<br>CHIMES                   |
| ⊕ STANDARD SWITCH<br>(3 OR 4 WAY AS NOTED)                    | ELEC. PANELBOARD W/<br>CIRCUIT<br>BREAKERS        |
| ⊕ SURFACE MOUNTED<br>LIGHT                                    | HB. HOSE BIB                                      |
| ⊕ SURFACE MOUNTED LED<br>LED DISC LIGHT                       | GAS GAS TAP                                       |
| ⊕ WALL MOUNTED<br>LIGHT                                       | CW_HW COLD/HOT WATER SUPPLY                       |

**ALL RECESS CANS SHOWN  
ON PLAN ARE LED PER  
COMMUNITY SPEC.**

**MID-ATLANTIC General Notes**

1. ALL ELECTRICAL PLUGS TO BE 9" TO TOP FROM FLOOR IN ROOMS WITH WALL MOLDINGS.
2. SWITCH FOR ATTIC LIGHT TO BE LOCATED OUTSIDE OF ATTIC SPACE, 12 INCHES FROM CEILING.
3. DO NOT RUN WIRES ON TOP OF JOISTS IN AREAS LIKELY TO HAVE DECKING IN ATTIC. (near disappearing stairs)
4. PROVIDE SMOKE DETECTORS IN EVERY BEDROOM. SEE SPECS FOR REQUIRED TYPE AND WIRING.
5. PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.
6. LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.

**IN ALL HABITABLE ROOMS  
LIGHT BOXES MUST BE FAN  
RATED**

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The measurements, dimensions, and other specifications shown on this document are guidelines for construction use only. This document may not be relied on as a representation of what the completed structure will look like.

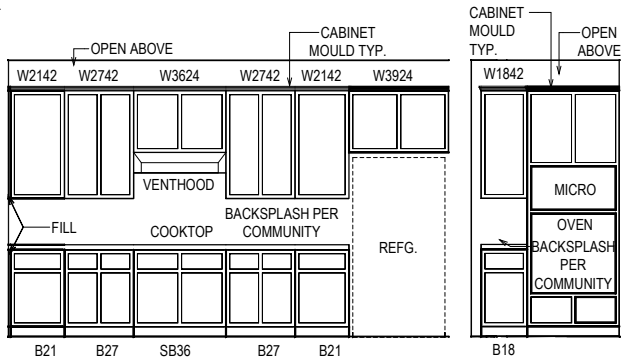
**David Weekly Homes**  
C/N/NU/IR Date: 09/21/2020 Scale: 1/8"=1'-0" Rev: 5/31/23 EB

Proj. No.: 126  
3277  
Job No.: 0126  
Block: Sect:

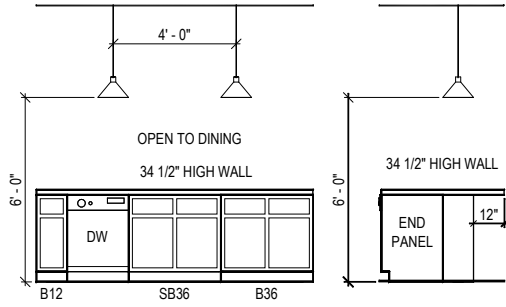
**SERENITY 65' (IM)**  
**383 SERENITY WALK PARKWAY**  
**FUQUAY VARINA, NC**

**SOUTH**  
**B329-B**  
**ELE-2**  
**BUCKHORN**  
**RALEIGH**

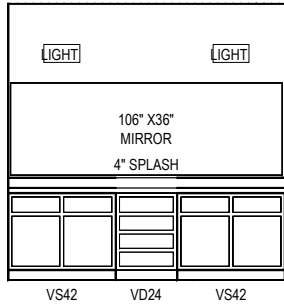




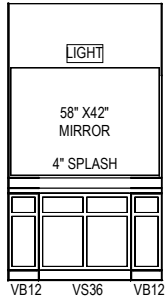
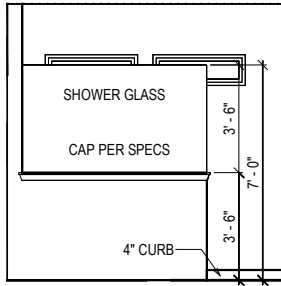
**KITCHEN**



**ISLAND**



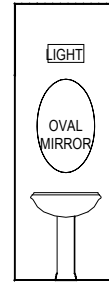
**OWNER'S BATH**



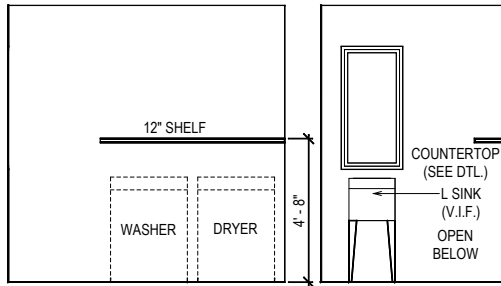
**BATH 2**



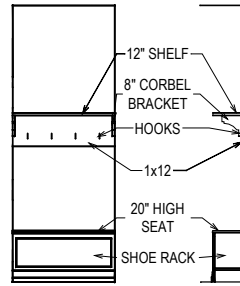
**BATH 3**



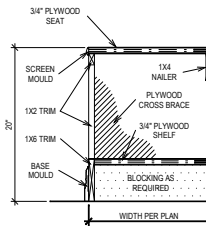
**PWDR**



**UTIL**

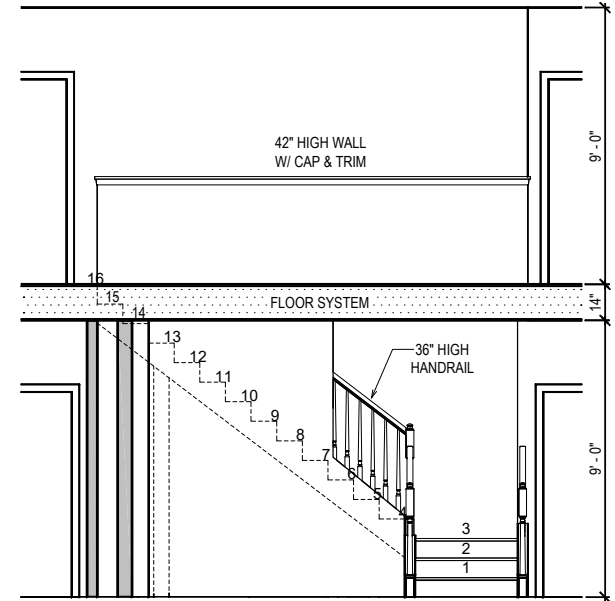


**BACKPACK RACK**



**SEAT DETAIL**

SCALE: 3/4" = 1'-0"



**STAIR SECTION**

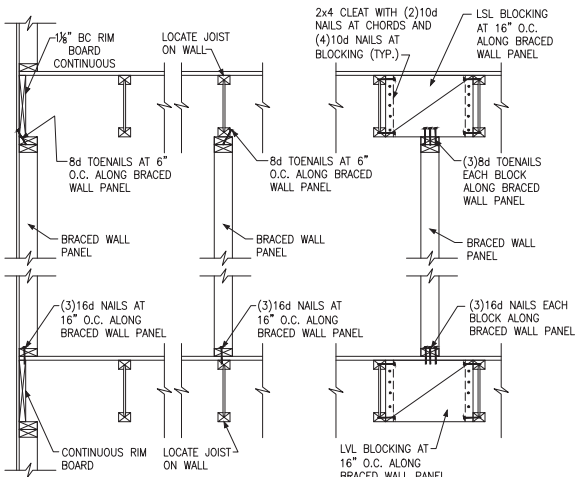
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**David Weekley Homes**  
C/N/II/IR Date: 09/21/2020 Scale: 1/4"=1'-0" Rev: 5/31/23 EB

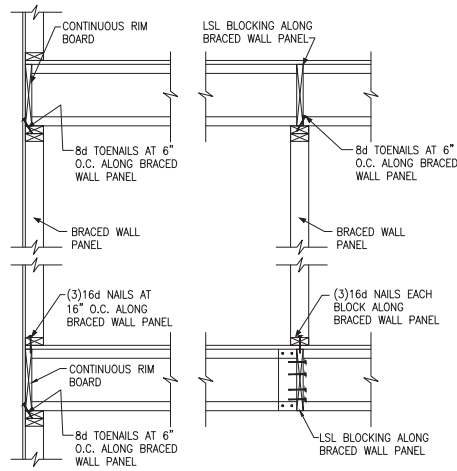
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Sect:

**SERENITY 65' (IM)**  
**383 SERENITY WALK PARKWAY**  
**FUQUAY VARINA, NC**

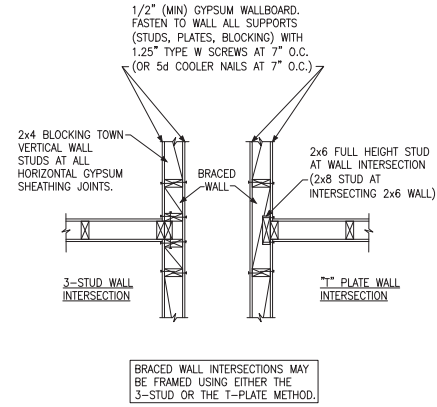
**SOUTH B329-B INT-1**  
**BUCKHORN RALEIGH**



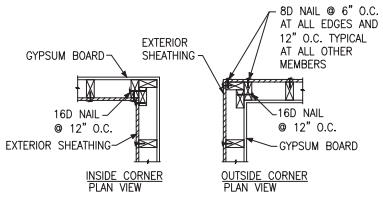
**A** TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION  
BRACED WALL PANELS PARALLEL TO I-JOISTS



**B** TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION  
BRACED WALL PANELS PERPENDICULAR TO I-JOISTS

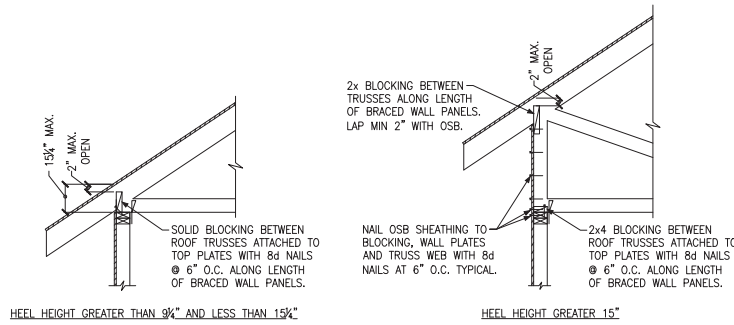


**C** METHOD GB(1) AND GB(2) INTERSECTION DETAILS



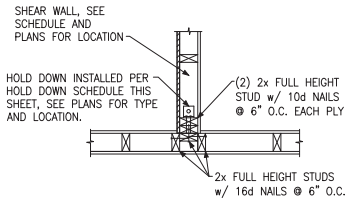
**D** TYPICAL EXTERIOR CORNER WALL FRAMING

NOTE: A THIRD STUD AND/OR PARTITION INTERSECTION BACKING STUDS SHALL BE PERMITTED TO BE OMITTED THROUGH THE USE OF WOOD BACKUP CLEATS, METAL DRYWALL CLIPS OR OTHER APPROVED DEVICES THAT WILL SERVE AS ADEQUATE BACKING FOR THE FACING MATERIALS.

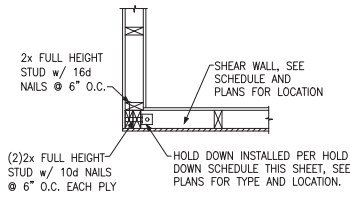


**E** ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS  
ONLY REQUIRED AT BRACED WALL PANELS

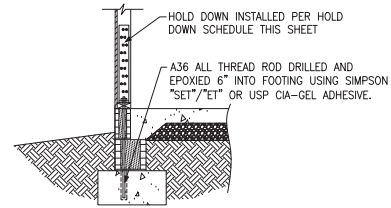




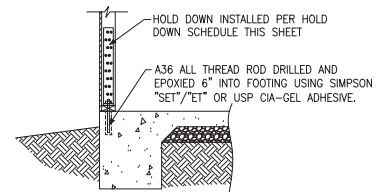
(A) TYPICAL HOLD DOWN DETAIL



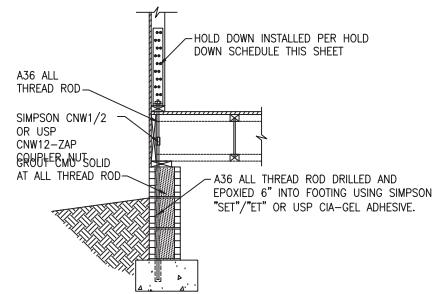
(B) TYPICAL HOLD DOWN DETAIL



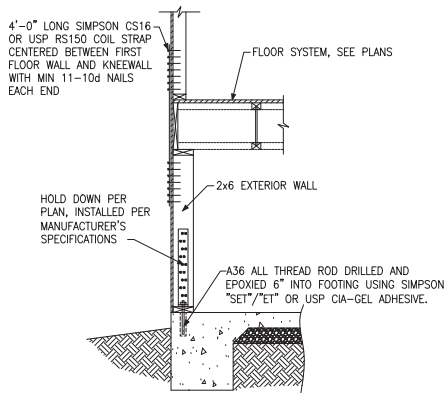
(C) HOLD DOWN AT STEMWALL SLAB



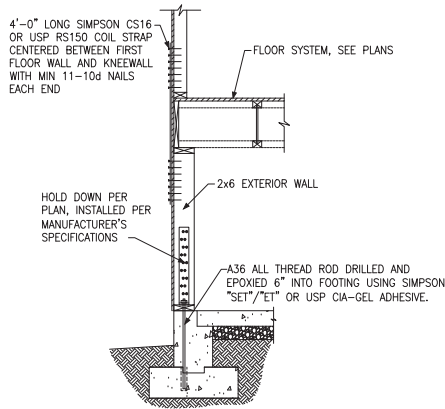
(D) HOLD DOWN AT MONOLITHIC SLAB



(E) HOLD DOWN AT CRAWL FOUNDATION



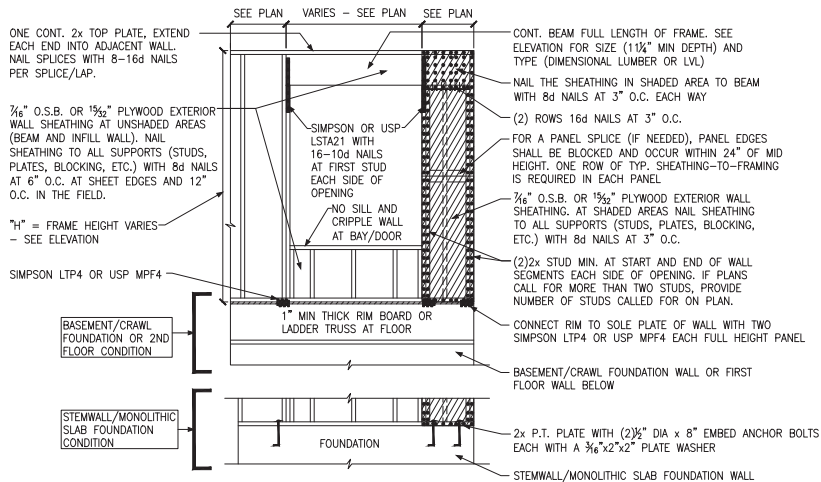
(F) HOLD DOWN AT FOUNDATION MONOLITHIC TURN-DOWN



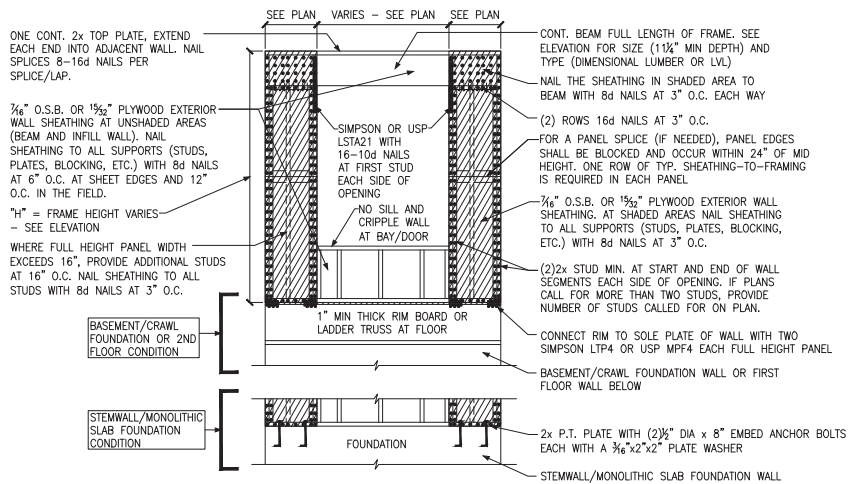
(G) HOLD DOWN AT FOUNDATION STEM WALL

| HOLD DOWN SCHEDULE |        |               |                           |
|--------------------|--------|---------------|---------------------------|
| HOLD DOWN          |        | ALL TREAD ROD | FASTENERS                 |
| SIMPSON            | USP    |               |                           |
| LTP2               | LTS20B | 1/2" DIA.     | (10)10d NAILS             |
| HTT4               | HTT16  | 3/8" DIA.     | (18)16dx2 1/2" LONG NAILS |
| HTT5               | HTT45  | 3/8" DIA.     | (26)16dx2 1/2" LONG NAILS |

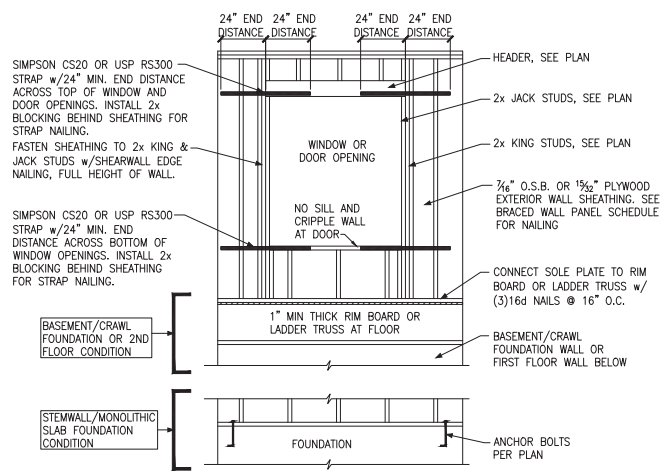




**A** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
ONE BRACED WALL SEGMENT



**B** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
TWO BRACED WALL SEGMENTS



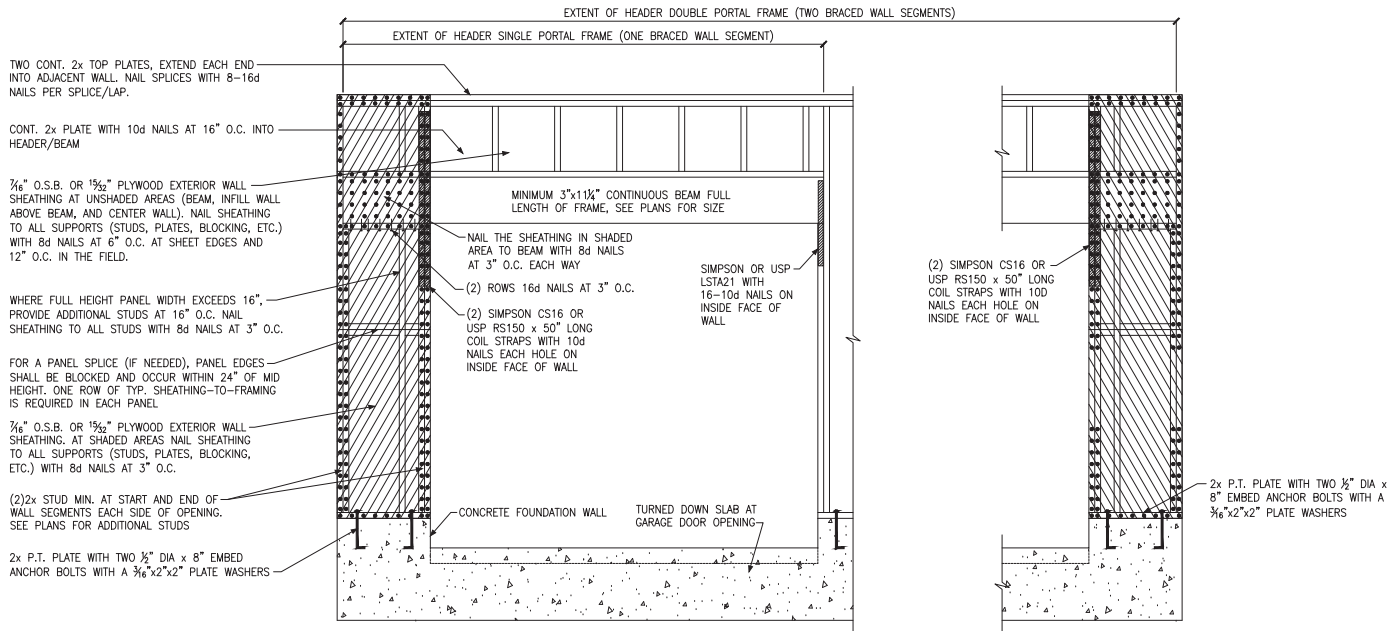
**C** WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL  
ONLY REQUIRED WHERE SPECIFIED ON PLANS

| BRACED WALL PANEL AND ENGINEERED SHEAR WALL SCHEDULE |  |             |   |
|--|--|-------------|---|
| PANEL TYPES  | PANEL TYPE   | MATERIAL    | FASTENERS   |
| WSP  | INTERMITTENT WOOD STRUCTURAL PANEL                       | 7/16" OSB   | 6d or 8d COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS |
| GB(1)  | INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)   | 1/2" GYPSUM | 1.5" LONG GAL. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.   |
| GB(1)-4  | INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)   | 1/2" GYPSUM | 1.5" LONG GAL. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 4" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.   |
| GB(2)  | INTERMITTENT GYPSUM BOARD (SHEATHING BOTH FACES OF WALL) | 1/2" GYPSUM | 1.5" LONG GAL. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.   |
| CS-WSP   | CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL                | 7/16" OSB   | 6d or 8d COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS |
| CS-PF  | CONTINUOUS SHEATHED PORTAL FRAME                         | 7/16" OSB   | NAILING PER DETAIL  |
| CS-EPF   | PORTAL FRAME WITH HOLD DOWNS                             | 7/16" OSB   | NAILING PER DETAIL  |
| CS-ESW(1)  | ENGINEERED SHEAR WALL, TYPE 1                            | 7/16" OSB   | 8d COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS   |
| CS-ESW(2)  | ENGINEERED SHEAR WALL, TYPE 2                            | 7/16" OSB   | 8d COMMON NAILS AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS   |
| CS-ESW(3)  | ENGINEERED SHEAR WALL, TYPE 3                            | 7/16" OSB   | 8d COMMON NAILS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS   |

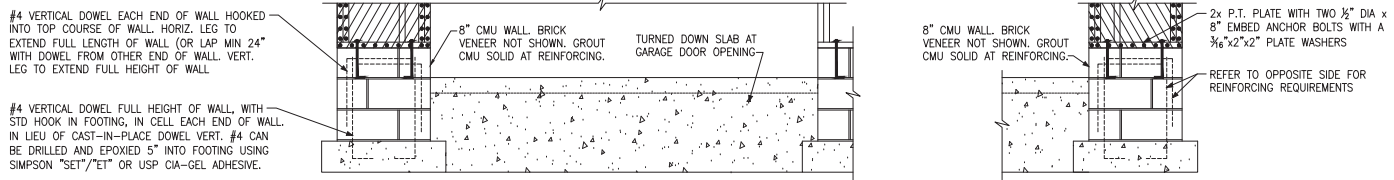
**BRACED WALL PANEL NOTES:**

- ALL BRACED WALL PANELS, EXCEPT GB(1) & GB(2), SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES.
- PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.
- SEATH ALL EXTERIOR WALLS OF THE HOUSE WITH 3/4" O.S.B., OR 1/2" PLYWOOD, FASTENED PER IRC. AT EXTERIOR CORNERS, SHEATHING SHALL BE FASTENED PER KSE BRACED WALL DETAILS. AT INTERIOR WALL INTERSECTIONS, FASTEN STUDS & WALL BRACING PER KSE BRACED WALL DETAILS.
- BRACED WALL PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER IRC. PANEL LENGTHS SHOWN ON PLANS ARE THE MINIMUM LENGTH REQUIRED.

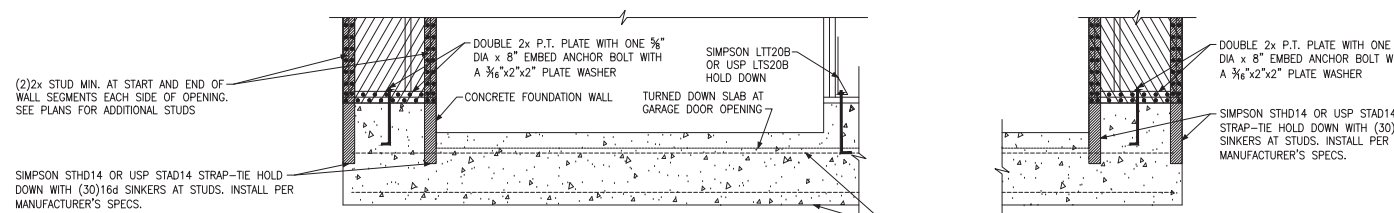




**(A) METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION**  
MONOLITHIC SLAB OR BASEMENT FOUNDATION

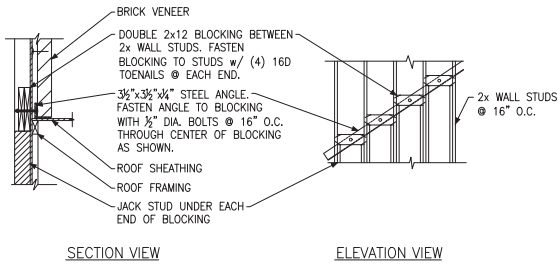


**(B) METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION**  
STEMWALL SLAB OR CRAWL SPACE FOUNDATION



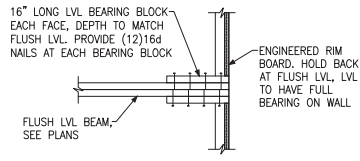
**(C) METHOD CS-EPF: ENGINEERED PORTAL FRAME WITH HOLD-DOWNS**  
CONTINUOUS #4 HIGH AND LOW. PROVIDE MIN 24" LAPS WHERE SPLICED.



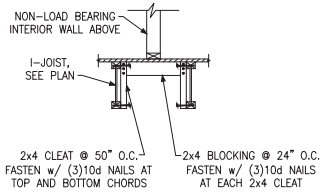


SECTION VIEW ELEVATION VIEW

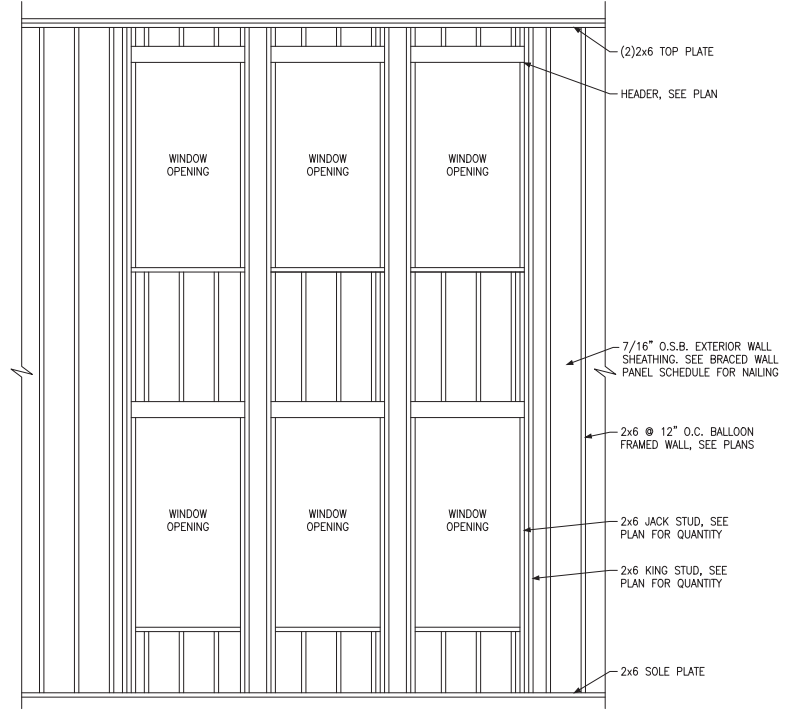
(A) BRICK LEDGER CONNECTION DETAIL



(B) BEARING ENHANCER FLUSH LVL



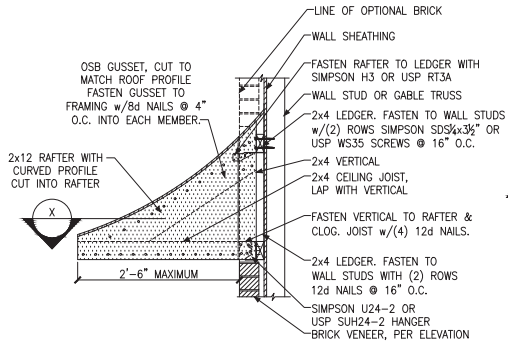
(C) I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS



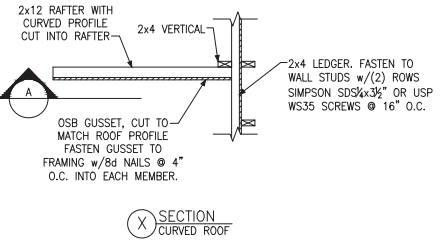
(D) BALLOON FRAMED WALL DETAIL N.T.S.

| WALL STUD SIZE, HEIGHT & SPACING SCHEDULE |                                   |   |   |  |                                   |                 |
|---|-----------------------------------|---|---|--|-----------------------------------|-----------------|
| STUD SIZE                                 | BEARING WALLS                     |   |   |  | NONBEARING WALLS                  |                 |
|   | LATERALLY UNSUPPORTED STUD HEIGHT | MAXIMUM SPACING WHEN SUPPORTING A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY, ONLY | MAXIMUM SPACING WHEN SUPPORTING ONE FLOOR, PLUS A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY | MAXIMUM SPACING WHEN SUPPORTING TWO FLOORS, PLUS A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY | LATERALLY UNSUPPORTED STUD HEIGHT | MAXIMUM SPACING |
| 2x4                                       | 10'-0"                            | 24"   | 16"   | -  | 14'-0"                            | 24"             |
| 2x6                                       | 10'-0"                            | 24"   | 24"   | 16"  | 20'-0"                            | 24"             |

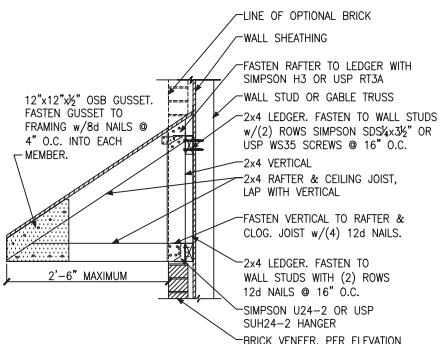




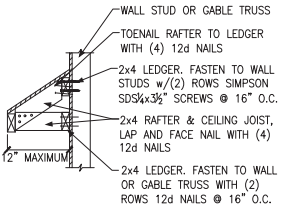
**A** PENT ROOF DETAIL  
CURVED ROOF



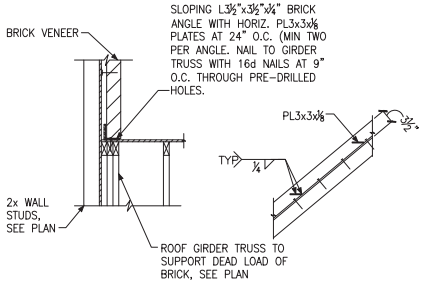
**X** SECTION  
CURVED ROOF



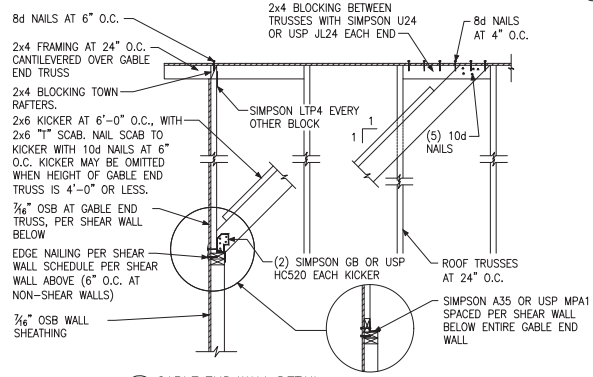
**B** PENT ROOF DETAIL  
STRAIGHT ROOF



**C** EYEBROW ROOF DETAIL  
STRAIGHT ROOF



**D** TRUSS DETAIL



**E** GABLE END WALL DETAIL

**KSE ENGINEERING**  
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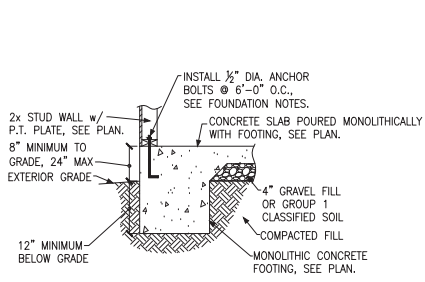
**David Weekley Homes**  
Raleigh, NC

Miscellaneous Framing Details  
Serenity, Lot #126  
B329 Buckhorn Model  
Serenity  
Raleigh, North Carolina

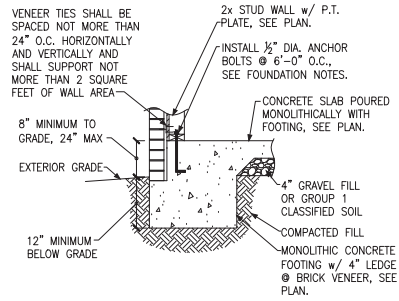
Project #: 047-20009  
Designed By: JPS  
Checked By: \_\_\_\_\_  
Issue Date: 12/4/23  
Re-Issue: \_\_\_\_\_  
Scale: 1/8"=1'-0" @ 11x17  
1/4"=1'-0" @ 22x34

SD-6

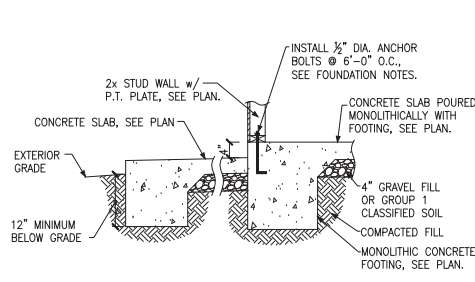




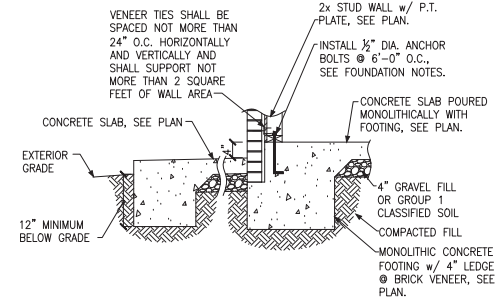
**A** FOUNDATION SECTION  
EXTERIOR WALL



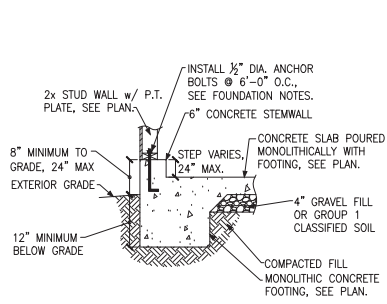
**B** FOUNDATION SECTION  
EXTERIOR WALL @ BRICK VENEER



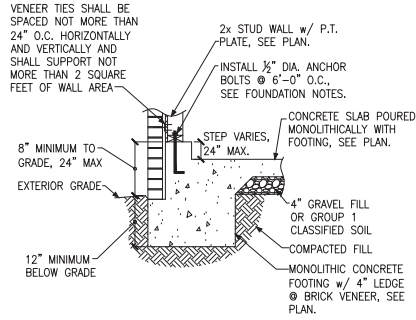
**C** FOUNDATION SECTION  
EXTERIOR WALL AT PORCH



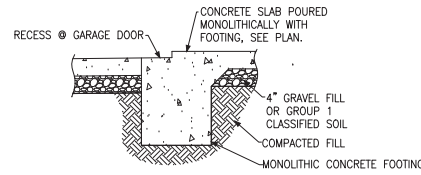
**D** FOUNDATION SECTION  
EXTERIOR WALL AT PORCH w/ BRICK VENEER



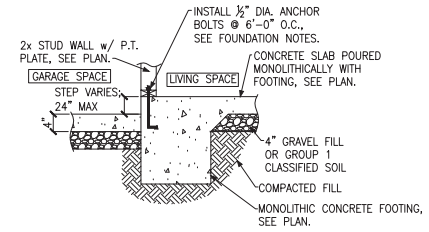
**E** FOUNDATION SECTION  
EXTERIOR GARAGE WALL



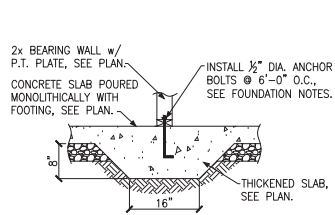
**F** FOUNDATION SECTION  
EXTERIOR GARAGE WALL @ BRICK VENEER



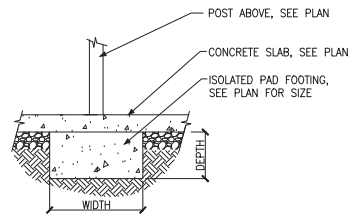
**G** GARAGE DOOR SECTION  
GARAGE DOOR



**H** THICKENED SLAB  
AT GARAGE



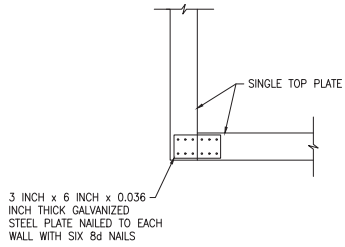
**J** THICKENED SLAB SECTION  
INTERIOR BEARING WALL



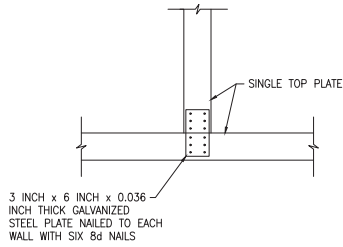
**K** ISOLATED PAD FOOTING  
INTERIOR COLUMN



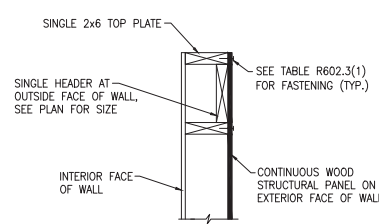




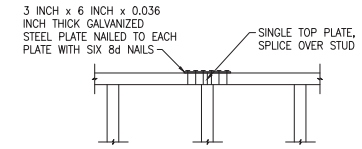
**A** SINGLE TOP PLATE SPLICE  
WALL INTERSECTION



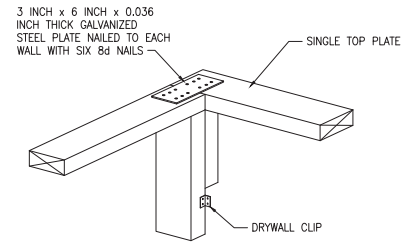
**B** SINGLE TOP PLATE SPLICE  
WALL INTERSECTION



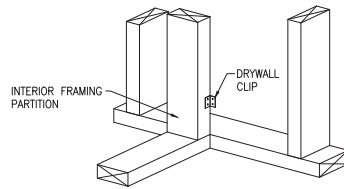
**C** SINGLE LOAD BEARING HEADER  
EXTERIOR WALL



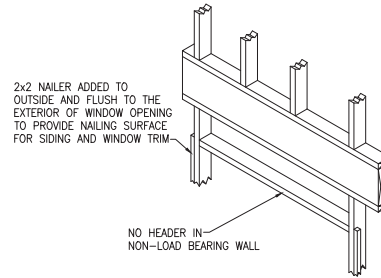
**D** SINGLE TOP PLATE SPLICE  
INTERIOR OR EXTERIOR WALL



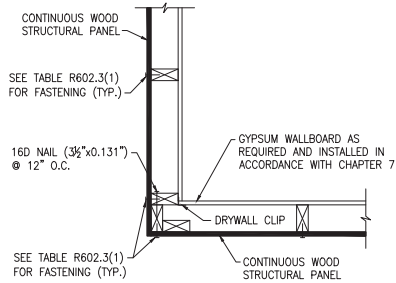
**E** SINGLE TOP PLATE SPLICE  
WALL INTERSECTION



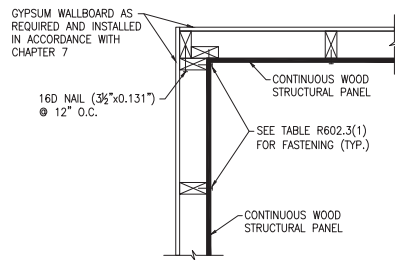
**F** SINGLE TOP PLATE SPLICE  
WALL INTERSECTION



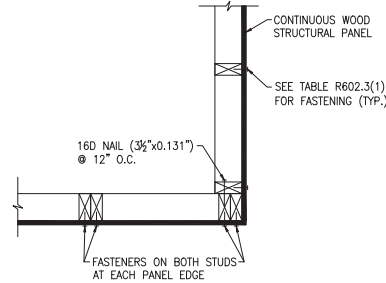
**G** NON-LOAD BEARING HEADER  
EXTERIOR WALL



**H** TYPICAL EXTERIOR CORNER FRAMING  
OUTSIDE CORNER DETAIL



**J** TYPICAL EXTERIOR CORNER FRAMING  
INSIDE CORNER DETAIL



**K** TYPICAL EXTERIOR CORNER FRAMING  
GARAGE DOOR CORNER DETAIL

**ADVANCED FRAMING NOTES**

- 1.) EXTERIOR WALLS TO BE 2x6 S.P.F. STUDS @ 24" O.C. WITH SINGLE TOP PLATE. TOP PLATE TO BE SPLICED PER NC RESIDENTIAL CODE.
- 2.) INTERIOR BEARING WALLS TO BE PER NC RESIDENTIAL CODE.
- 3.) ROOF TRUSSES AND FLOOR JOISTS ARE TO BE STACKED AND CENTERED OVER STUDS WITH A TOLERANCE OF NO MORE THAN 1 INCH. ADDITIONAL STUDS ARE TO BE ADDED WHERE THE ROOF TRUSSES AND FLOOR JOISTS ARE NOT STACKED OVER STUDS WITHIN 1" TOLERANCE.
- 4.) INTERIOR NON-LOAD BEARING WALLS TO BE 2x4 S.P.F. STUDS @ 24" O.C. WITH SINGLE TOP PLATE. TOP PLATE TO BE SPLICED PER NC RESIDENTIAL CODE.
- 5.) LOAD-BEARING HEADERS ARE NOT REQUIRED IN INTERIOR OR EXTERIOR NONBEARING WALLS. A SINGLE FLAT 2x MEMBER MAY BE USED AS A HEADER IN INTERIOR OR EXTERIOR NONBEARING WALLS FOR OPENINGS UP TO 8 FEET IN WIDTH IF THE VERTICAL DISTANCE TO THE PARALLEL NAILING SURFACE IS NOT MORE THAN 24 INCHES. FOR SUCH NONBEARING HEADERS, NO CRIPPLES OR BLOCKING ARE REQUIRED ABOVE THE HEADER.

