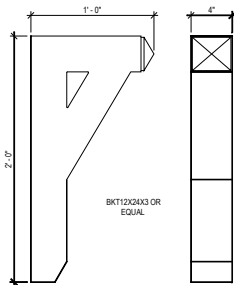


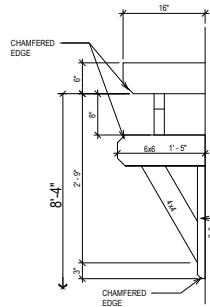
**CORNICE DTL.**

SCALE: 1" = 1'-0"



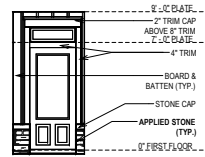
**BRACKET DETAIL**

SCALE: 1" = 1'-0"



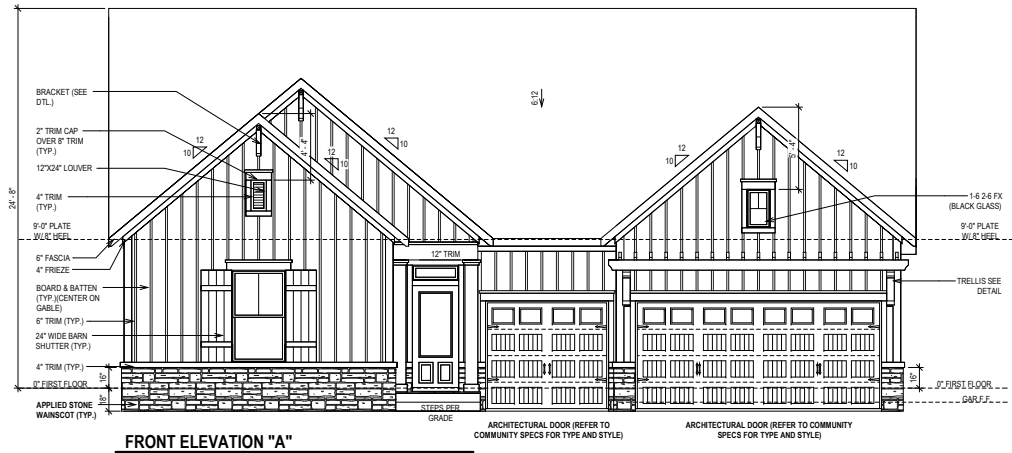
**TRELLIS DETAIL**

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

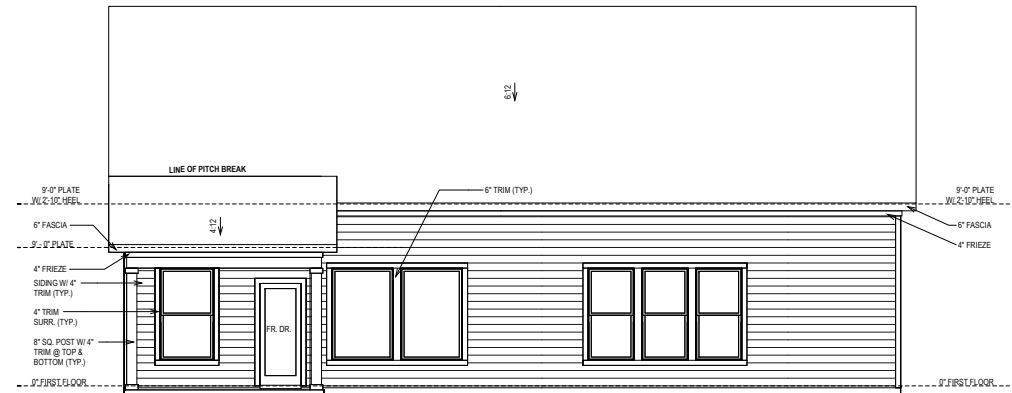


**ENTRY DOOR**

PROVIDE HANDRAIL WHEN REQUIRED BY CODE



**FRONT ELEVATION "A"**



**REAR ELEVATION**

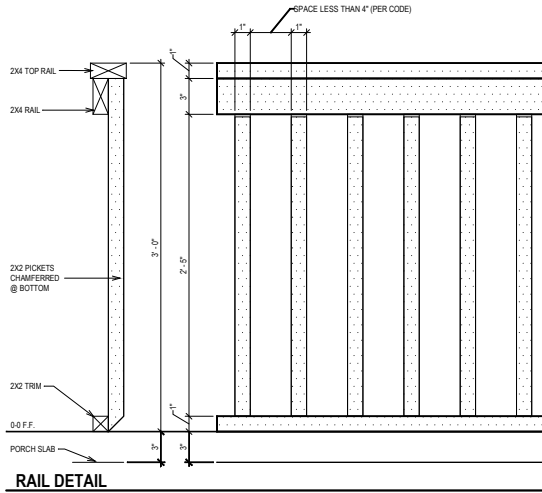
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**David Weekley Homes**  
BR/JPM/W Scale: 1/8" = 1'-0"  
Date: 03/09/2021 Rev: 2/11/2023 EB

Proj. No.: 53  
Lot: 3277  
Block: 1  
Sect: 1  
Job No.: 0053

**SERENITY 65'**  
128 SERENDIPITY DR  
FUQUAY VARINA, NC

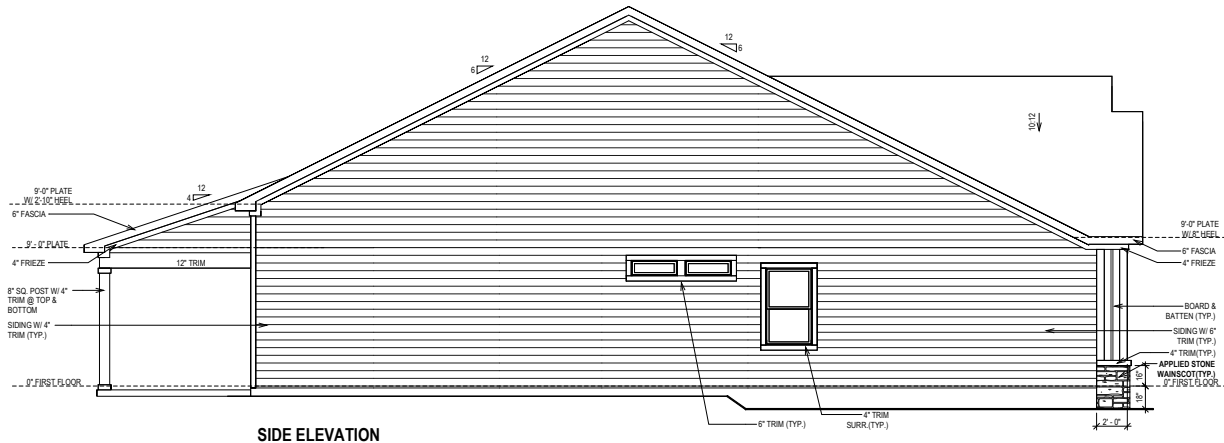
**NORTH B326-A ELV-1**  
BLAKESTONE  
RALEIGH



**RAIL DETAIL**  
SCALE: 1" = 1'-0"



**SIDE ELEVATION**



**SIDE ELEVATION**

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**SERENITY 65'**  
128 SERENDIPITY DR  
FUQUAY VARINA, NC

**NORTH**  
**B326-A**  
**ELV-2**  
BLAKESTONE  
RALEIGH

**SHEET INDEX:**

- S-0 COVER SHEET
- S-0.1 GENERAL STRUCTURAL NOTES
  
- S-1 MONOLITHIC SLAB FOUNDATION PLAN
- S-2 ROOF FRAMING PLAN
  
- SD-1 BRACED WALL DETAILS
- SD-2 HOLD DOWN DETAILS
- SD-3 BRACED WALL NOTES & DETAILS
- SD-4 PORTAL FRAME DETAILS
- SD-5 MISCELLANEOUS FRAMING DETAILS
- SD-6 MISCELLANEOUS FRAMING DETAILS
- SD-7 MONOLITHIC SLAB FOUNDATION DETAILS
- SD-8 NOT USED
- SD-9 NOT USED
- SD-10 NOT USED
- SD-11 NOT USED
- SD-12 ADVANCED FRAMING DETAILS & NOTES



**KSE**  
**ENGINEERING**

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

**B326 BLAKESTONE**  
SERENITY, LOT #53

**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 BONUSORD (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



**KSE**  
**ENGINEERING**

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

**David Weekley Homes**  
Raleigh, NC

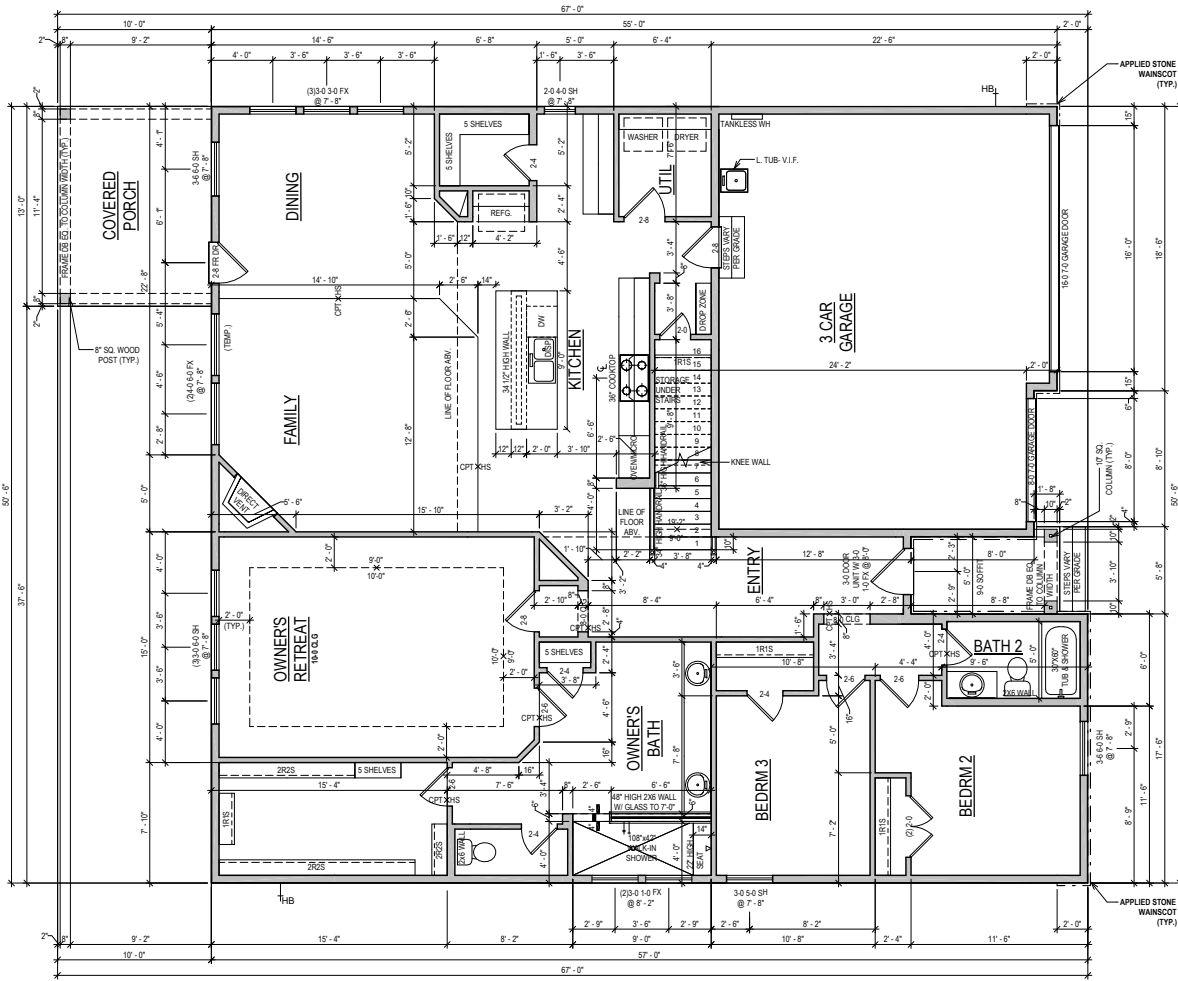
Cover Sheet  
Serenity, Lot #53  
B326 Blakestone Model  
115 M.P.H.  
Raleigh, North Carolina

Project #: 047-22002  
 Designed By: LMR  
 Checked By:  
 Issue Date: 2/17/23  
 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.

PLAN SQFT	
<b>LIVING</b>	
1ST FLOOR	2155 SF
2ND FLOOR	475 SF
<b>TOTAL LIVING</b>	<b>2631 SF</b>
<b>SLAB</b>	
1ST FLOOR	2155 SF
COVERED PORCH	130 SF
FRONT PORCH	49 SF
GARAGE	596 SF
<b>TOTAL SLAB</b>	<b>2930 SF</b>
<b>FRAMING</b>	
1ST FLOOR	2155 SF
2ND FLOOR	427 SF
COVERED PORCH	130 SF
FRONT PORCH	49 SF
GARAGE	596 SF
<b>TOTAL FRAMING</b>	<b>3357 SF</b>

**OPTION LIST**

DRIP ZONE @ FAMILY FIREPLACE @ FAMILY COVERED PORCH DOORS @ PANTRY

DOOR @ OWNER'S CLOSET SUPER SHOWER TUB @ OWNER'S RETREAT TRAY @ OWNER'S RETREAT RAILING @ STAIRS

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

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

**SERENITY 65<sup>®</sup>**  
128 SERENDIPITY DR  
FUQUAY VARINA, NC

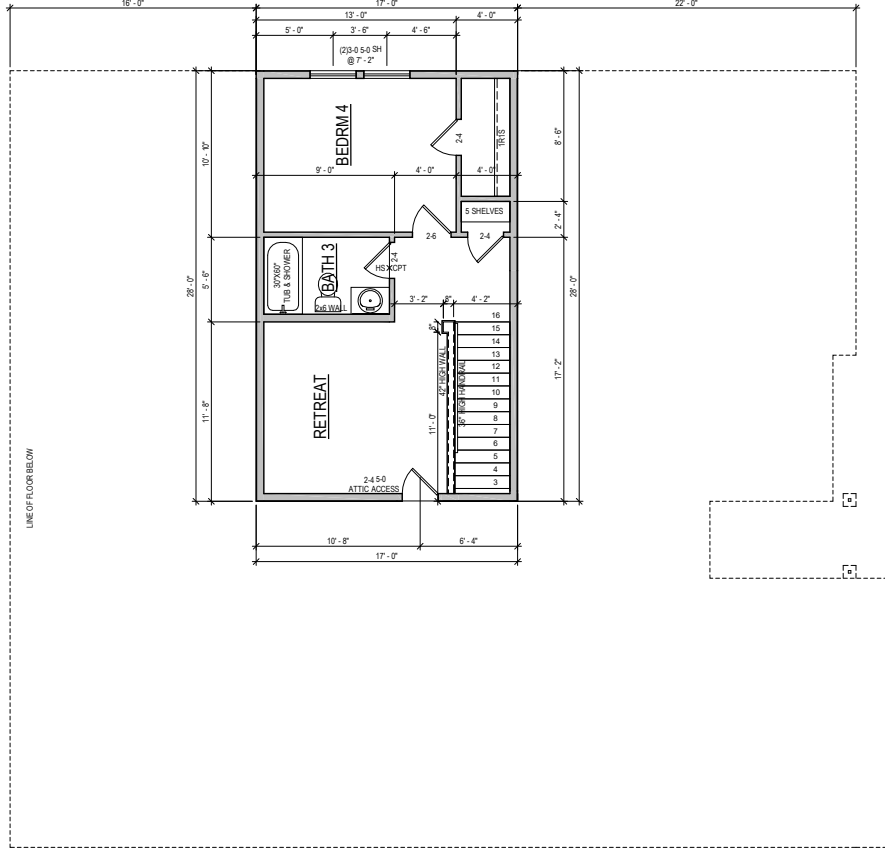
**NORTH**  
**B326-A**  
**PLN-1**  
BLAKESTONE  
RALEIGH

Proj. No.: **53**  
3277  
Job No.: **1**  
0053

**David Weekley Homes**  
BR/JPMW Scale: 1/8"=1'-0"  
Date: 03/09/2021 Rev: 2/11/2023 EB

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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

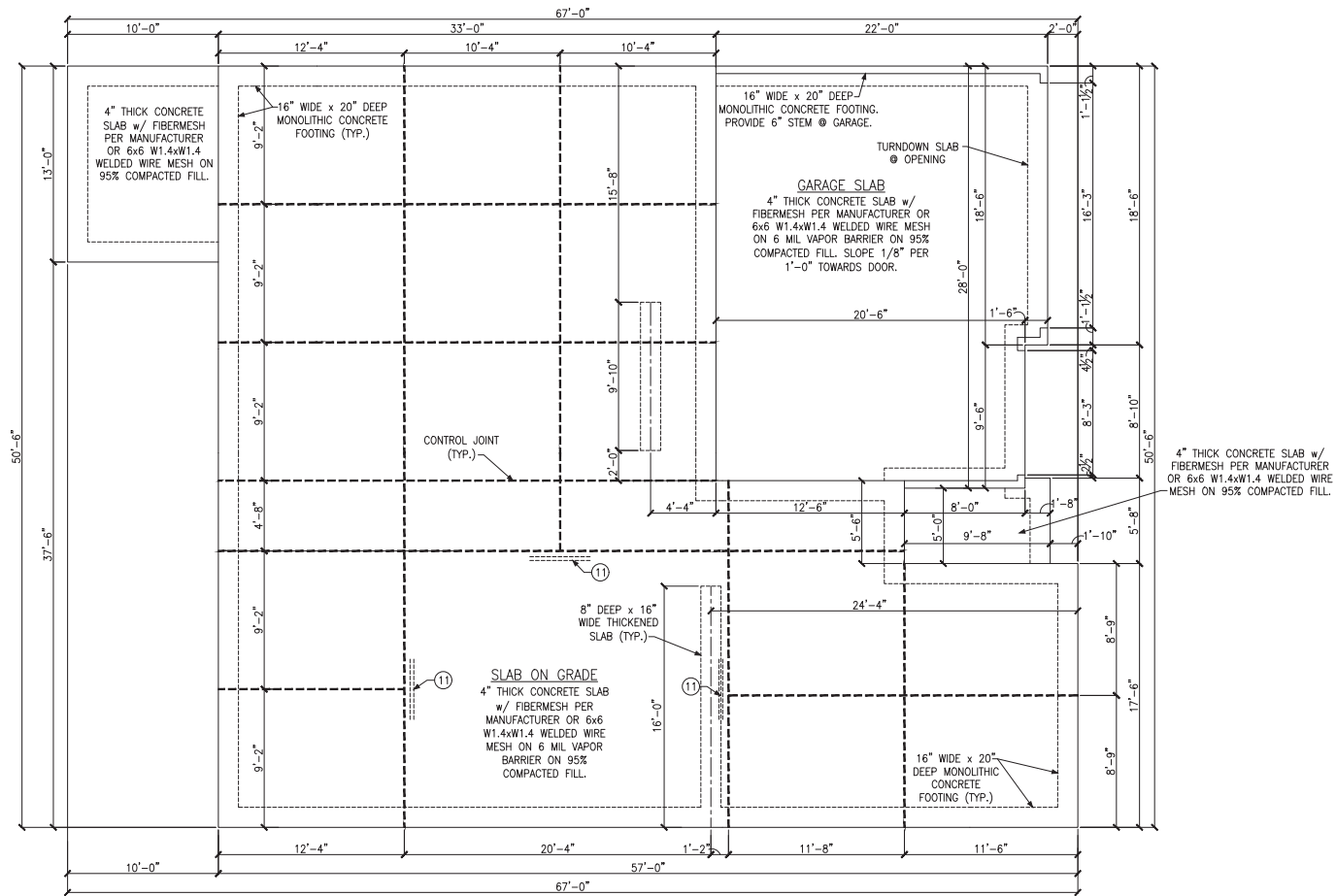
SERENITY 65'  
128 SERENDIPITY DR  
FUQUAY VARINA, NC

NORTH  
**B326-A**  
**PLN-2**  
BLAKESTONE  
RALEIGH

Proj. No.: 53  
Lot: 3277  
Job No.: 0053  
Block: 1  
Sect: 1

**David Weekley Homes**  
BR/JPI/MW  
Date: \_\_\_\_\_  
Scale: 1/8"=1'-0"  
Rev: 2/11/2023 EB

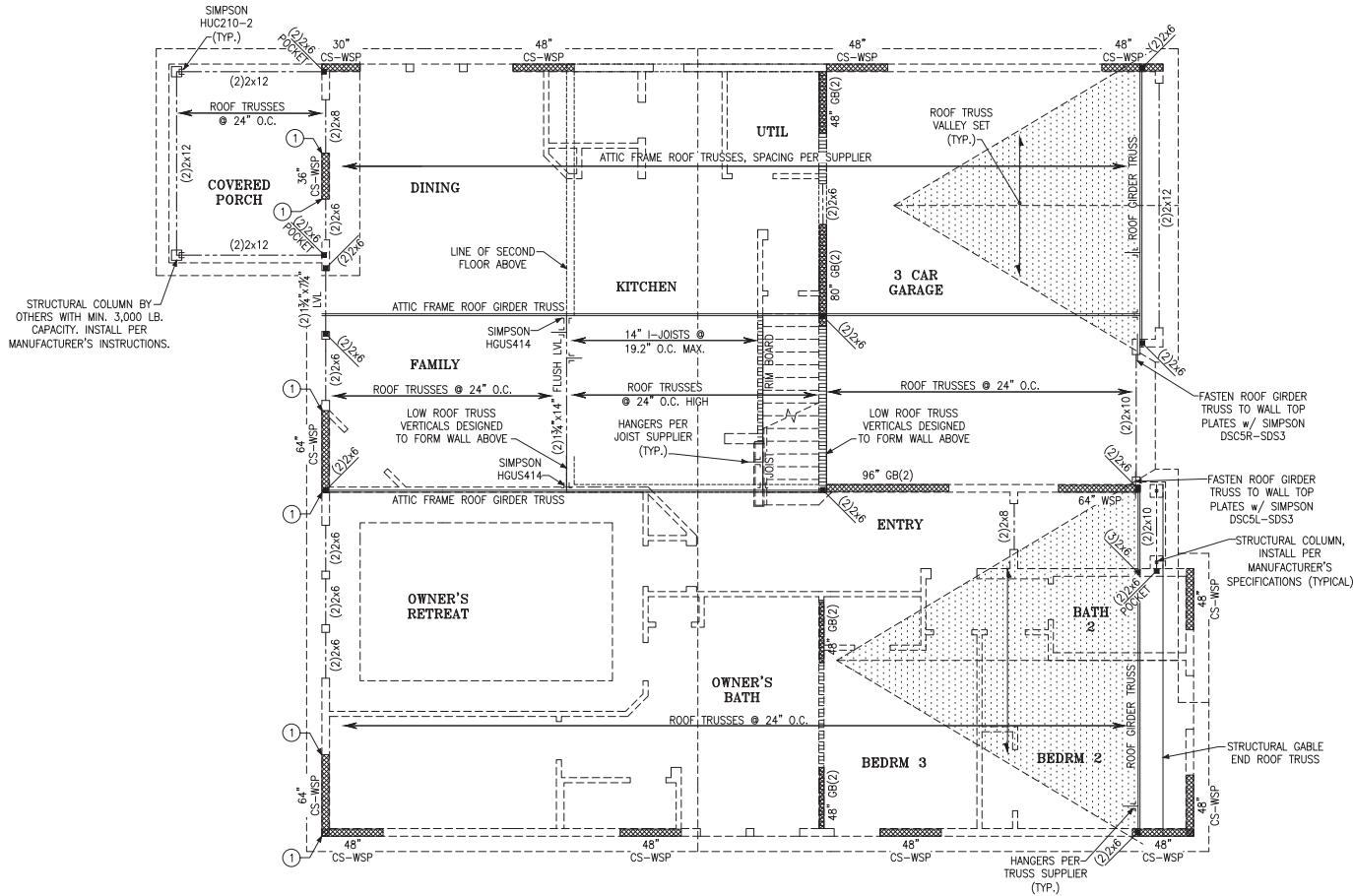
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MONOLITHIC SLAB FOUNDATION PLAN

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	
KEYNOTES:	
(1)	(2) #4 x 4'-0" LONG BARS AT 3' O.C., CENTERED IN SLAB, TYP. WHERE SHOWN





**LEGEND**

- (Symbol: Star in triangle) PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- (Symbol: Arrow) BEARING WALL ABOVE
- (Symbol: Dashed line) INTERIOR BEARING WALL
- (Symbol: Stippled area) BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
- (Symbol: Dotted area) 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

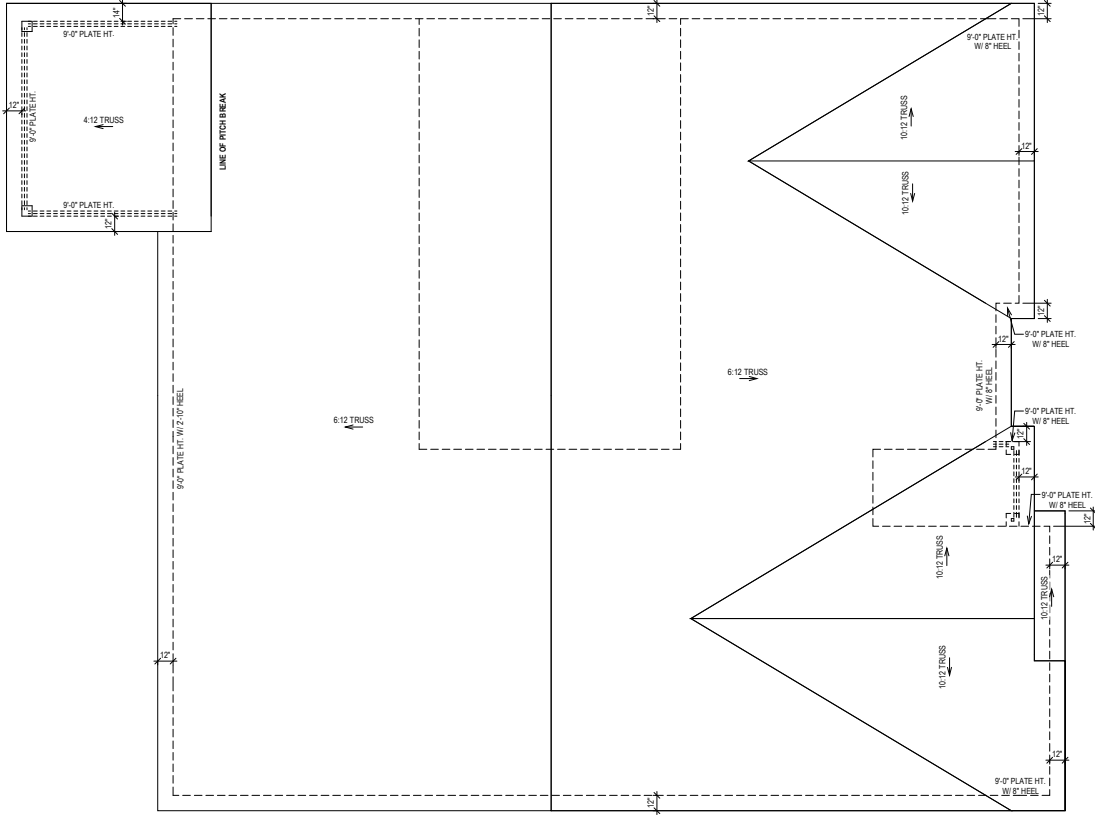
FLOOR FRAMING TO BE 14" DEEP TJI 210 SERIES OR EQUAL, SPACING PER MANUFACTURER.

**KEYNOTES:**

1 AT RAISED FLOOR BELOW, CONNECT STUD AT END OF BRACED WALL PANEL TO FRAMING BELOW WITH A 30" LONG SIMPSON CS20 COLL STRAP WITH MIN 8-10d NAILS EACH END. AT SLAB FOUNDATION BELOW, CONNECT STUD TO FOUNDATION w/ SIMPSON DIT12 w/ SIMPSON 3/8"x6" TITEN HD SCREW ANCHOR AND 3/2" MINIMUM EMBEDMENT.

**ROOF FRAMING PLAN**





ROOF PLAN "A"

NORTH  
**B326-A**  
**RFP-1**  
 BLAKESTONE  
 RALEIGH

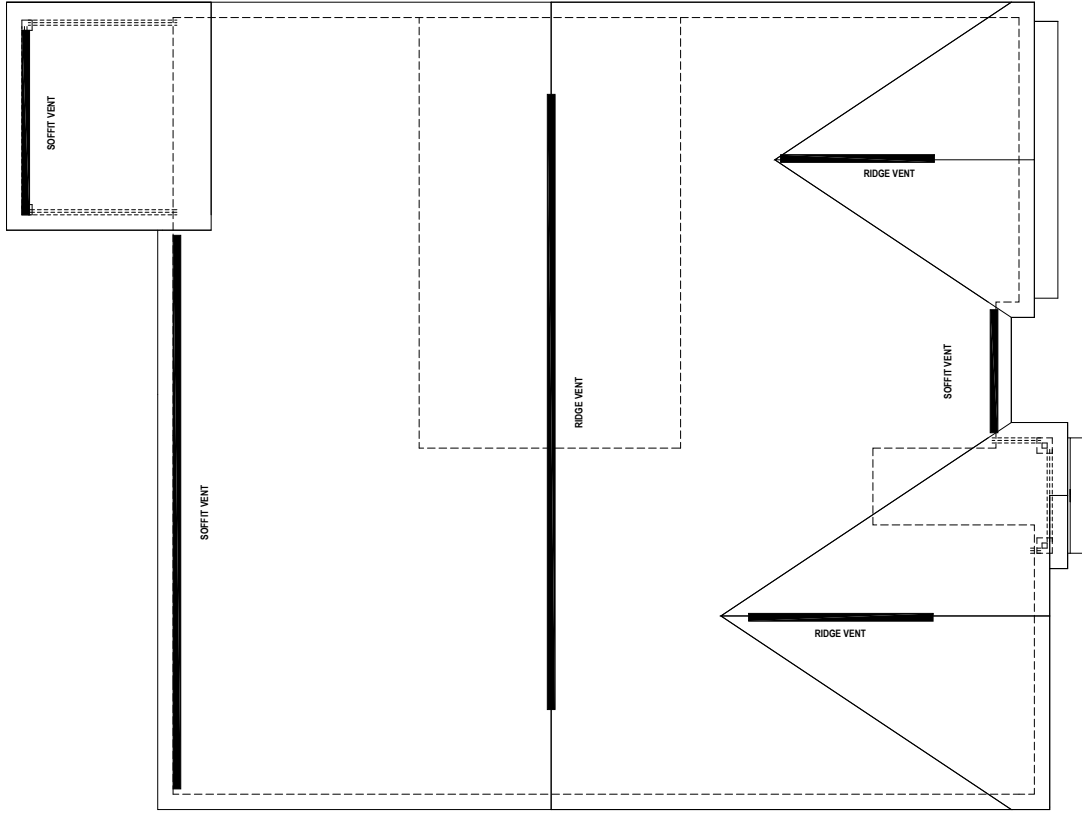
**SERENITY 65'**  
**128 SERENDIPITY DR**  
**FUQUAY VARINA, NC**

Proj. No.: **53**  
 Lot: **3277**  
 Job No.: **0053**

Block: **1**  
 Sect: **1**

**David Weekley Homes**  
 BR/JPM/W Date: 03/09/2021 Scale: 1/8"=1'-0" Rev: 2/1/2023 EB

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ROOF PLAN CALCS

ROOF VENT CALCULATION:  
 ATTIC SPACE: 2930 SQ.FT.  
 REQUIRED VENTILATION: 1406 SQ.IN. REQ.  
 SOFFIT VENT PROVIDED: 58 LINEAL FEET  
 RIDGE VENT PROVIDED: 62 LINEAL FEET  
 AIR HAWK VENT PROVIDED: 0 UNITS  
 PROVIDED VENTILATION: 1406 SQ.IN.  
 50-80% IN UPPER PORTION: 79%

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 BRJPMW Date: 03/09/2021 Scale: 1/8"=1'-0" Rev: 2/1/2023 EB

Proj. No.: 53  
 Lot: 3277  
 Job No.: 0053  
 Block: 1  
 Sect: 1

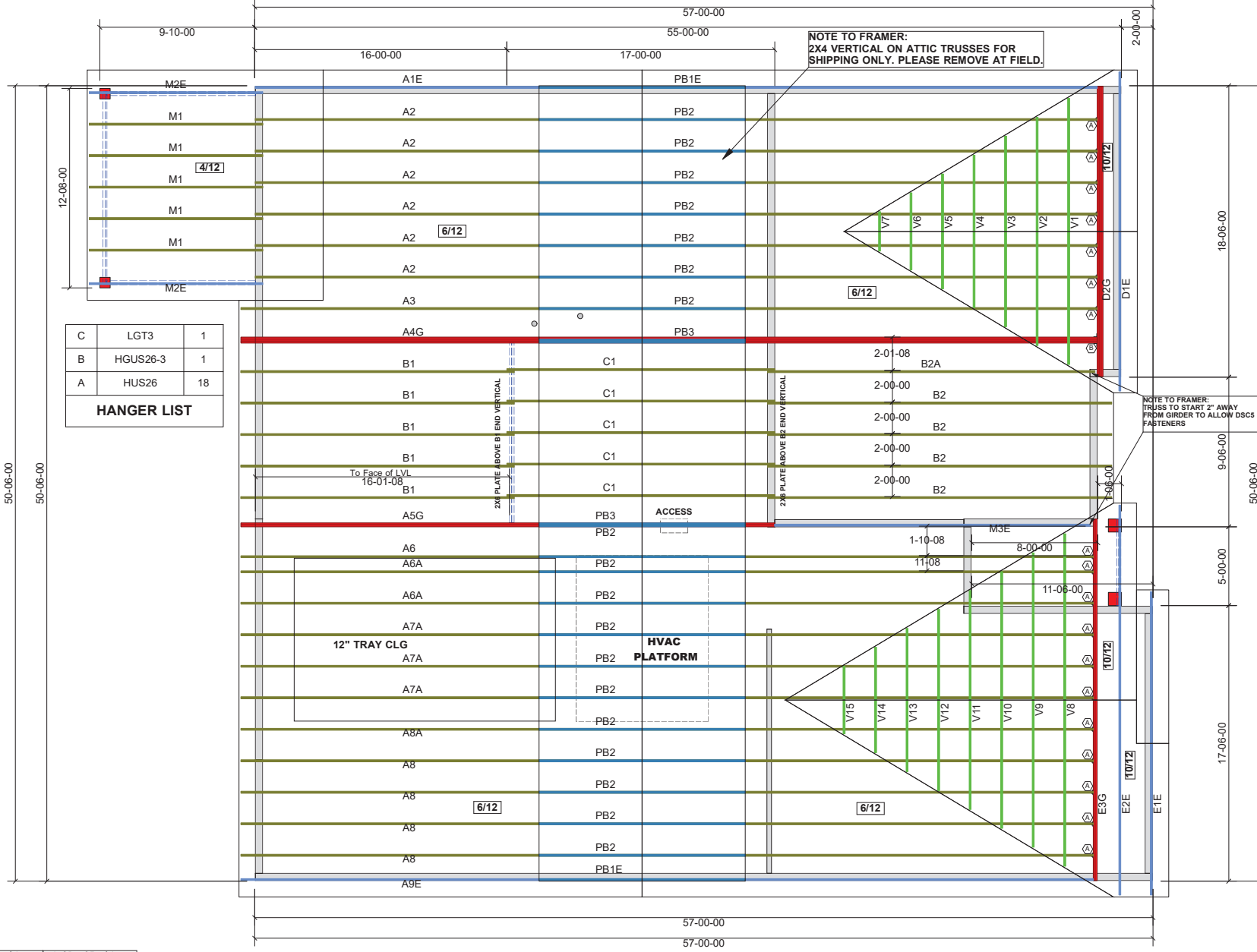
SERENITY 65'  
 128 SERENDIPITY DR  
 FUYQUAY VARINA, NC

NORTH  
**B326-A**  
**RFP-2**  
 BLAKESTONE  
 RALEIGH

THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY. REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.



DEDICATED TO QUALITY AND EXCELLENCE  
 200 EMMETT ROAD  
 DUNN, NORTH CAROLINA 28334  
 PHONE: 910-892-8400



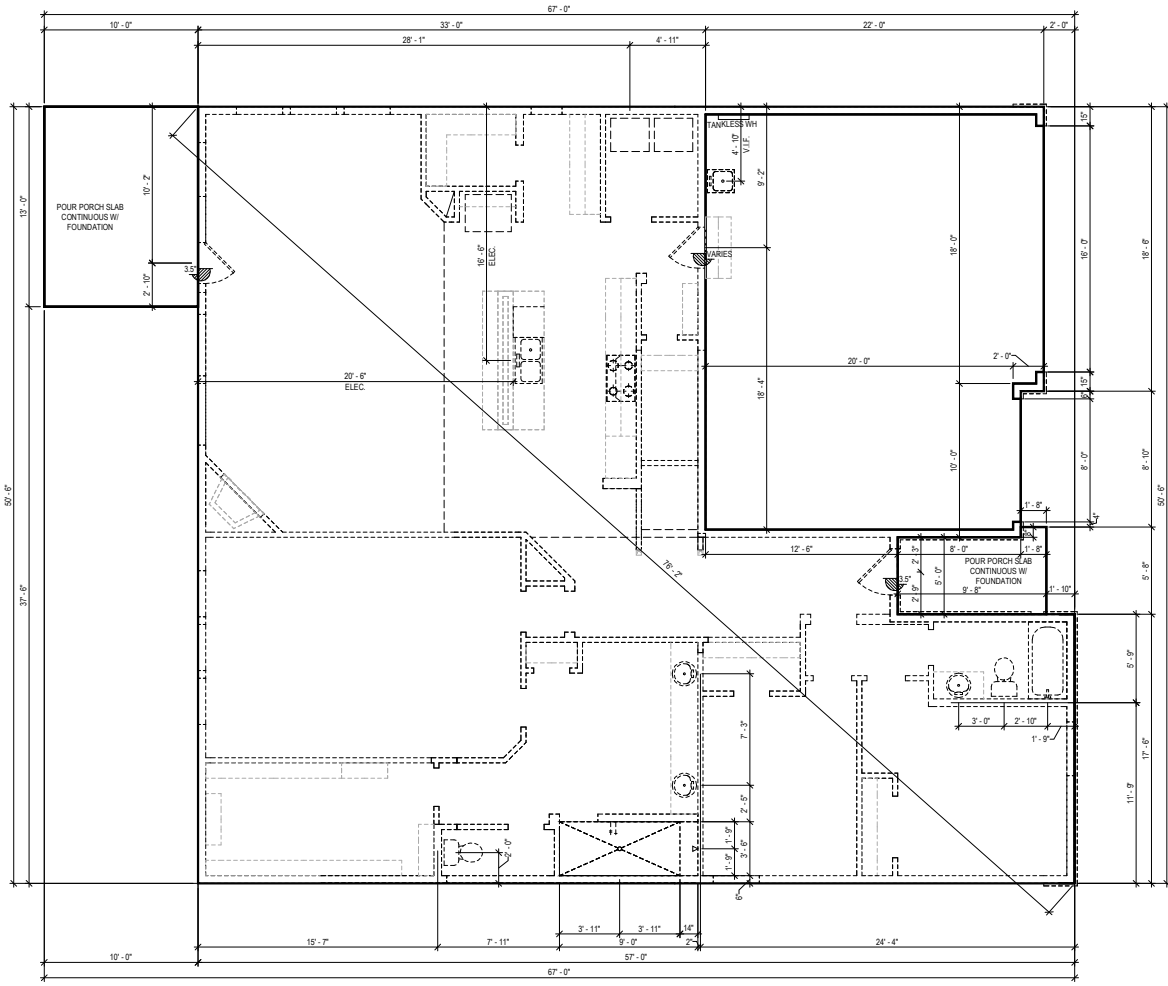
PROJECT:	53 SERENITY
CUSTOMER:	DAVID WEEKLEY
MODEL:	B326-A BLAKESTONE w/TrayClg
ORDER #:	35842A
PRINT DATE:	3/9/2023
DRAWN BY:	BES
SCALE:	N.T.S

TOP LIVE LOAD:	20.0 lb/ft <sup>2</sup>
TOP DEAD LOAD:	10.0 lb/ft <sup>2</sup>
BOTTOM DEAD LOAD:	10.0 lb/ft <sup>2</sup>
WIND SPEED:	120 mph

**GENERAL NOTES:**

- DO NOT CUT OR MODIFY TRUSSES
- TRUSSES ARE SPACED 24" ON CENTER UNLESS OTHERWISE NOTED
- REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTIPLY CONNECTION REQUIREMENTS.
- PER ANSI TR14-2009 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLACEMENT PLAN RECOMMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE TRUSS ENGINEER.
- TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.

1st Level Roof Area	3620.36
2nd Level Roof Area	0



**FIRST FLOOR**

SEE ENGINEERING FOR ANCHOR BOLT REQUIREMENTS

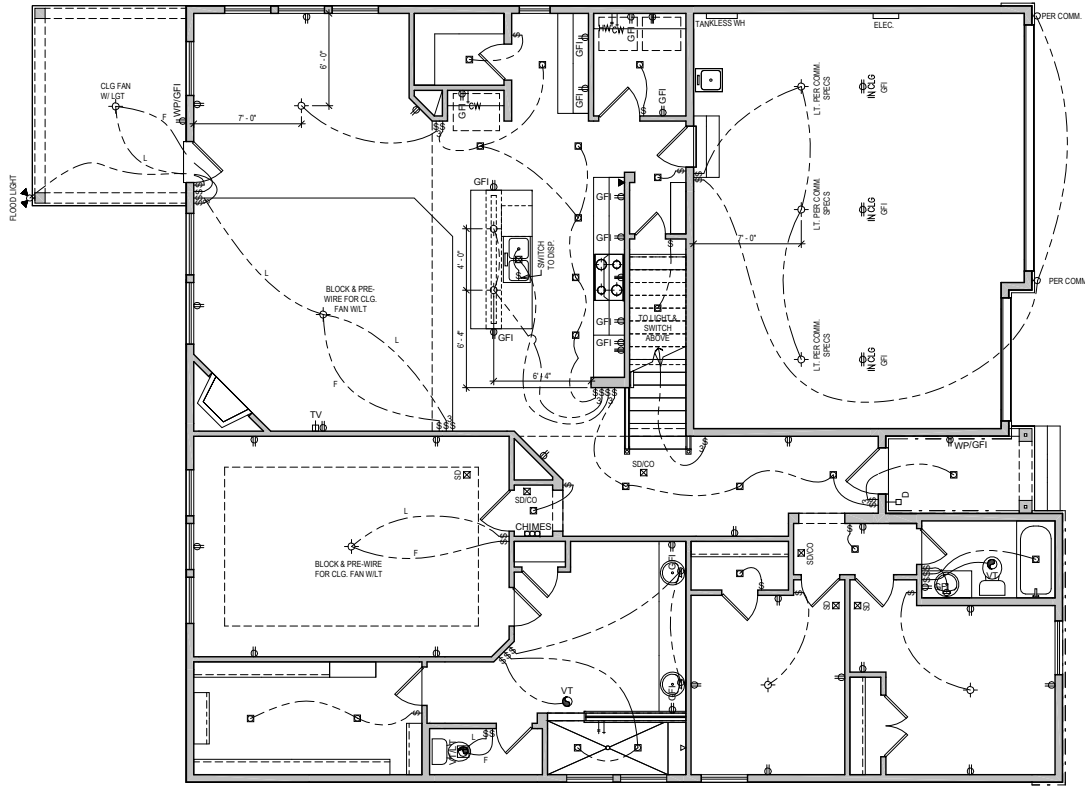
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 Lot: 3277  
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 Sect: 1

**SERENITY 65'**  
 128 SERENDIPITY DR  
 FUQUAY VARINA, NC

**NORTH**  
**B326-A**  
**FS-1**  
 BLAKESTONE  
 RALEIGH



**FIRST FLOOR**

IN ALL HABITABLE ROOMS  
LIGHT BOXES MUST BE FAN  
RATED

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

**UTILITY LEGEND**

⊕	110V OUTLET 12" A.F.F. @ I.D.
GFI	GROUND FAULT INTERRUPTOR (WEATHER PROOF AS NOTED)
1/2	HALF HOT OUTLET
⊕	220V OUTLET (30" A.F.F. @ UTILITY)
☎	PHONE LINE
T V	CABLE TELEVISION
⊕	STANDARD SWITCH (3 OR 4 WAY AS NOTED)
⊕	SURFACE MOUNTED LIGHT
⊕	SURFACE MOUNTED LED DISC LIGHT
⊕	WALL MOUNTED LIGHT
⊕	RECESS CAN LIGHT (ETIKAL AS NOTED)
⊕	EXHAUST VENT
⊕	SMOKE DETECTOR (CARBON MONOXIDE AS NOTED)
⊕	DOOR BELL
⊕	CHIMES DOOR BELL
ELEC	CHIMES
ELEC	PANELBOARD W/
⊕	CIRCUIT
⊕	BREAKERS
⊕	HOSE BIB
⊕	GAS TAP
DW, HW	COLD/HOT WATER SUPPLY
⊕	ELEVATOR CALL BUTTON

**MID-ATLANTIC General Notes**

1. ALL ELECTRICAL PLUSSES TO BE 9" TO TOP FROM FLOOR IN ROOMS WITH WALL MOUNDINGS.
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.

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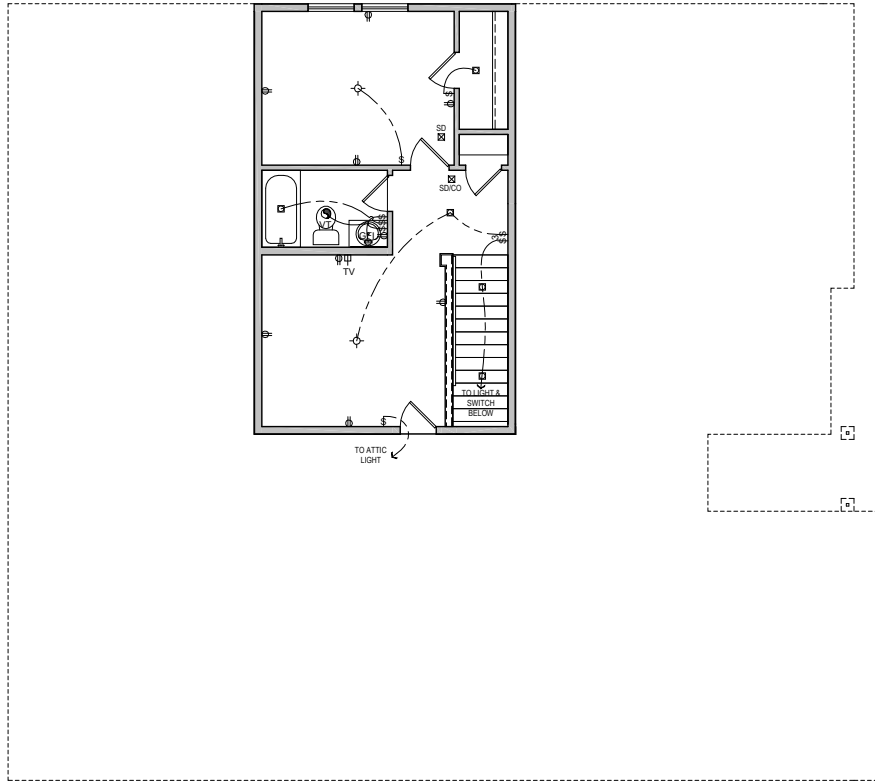
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**SERENITY 65'**  
**128 SERENDIPITY DR**  
**FUQUAY VARINA, NC**

**NORTH**  
**B326-A**  
**ELE-1**  
**BLAKESTONE**  
**RALEIGH**

**SECOND FLOOR**



IN ALL HABITABLE ROOMS  
LIGHT BOXES MUST BE FAN  
RATED

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

**UTILITY LEGEND**

⊕	110V OUTLET (12" A.F.F. @ I.D.)
⊕	GROUND FAULT INTERRUPTOR (WEATHER PROOF AS NOTED)
1/2 ⊕	HALF HOT OUTLET
⊕	220V OUTLET (30" A.F.F. @ UTILITY)
⬇	PHONE LINE
T	CABLE TELEVISION
⊕	STANDARD SWITCH (3 OR 4 WAY AS NOTED)
⊕	SURFACE MOUNTED LED LIGHT
⊕	SURFACE MOUNTED LED DISC LIGHT
⊕	WALL MOUNTED LED LIGHT
⊕	RECESS CAN LIGHT (ET/BALL AS NOTED)
⊕	EXHAUST VENT
⊕	SMOKE DETECTOR (CARBON MONOXIDE AS NOTED)
⊕	DOOR BELL
⊕	CHIMES
ELEC	PANELBOARD W/ CIRCUIT BREAKERS
HB	HOSE BIB
GAS	GAS TAP
DW, HW	COLD/HOT WATER SUPPLY
E	ELEVATOR CALL BUTTON

**MID-ATLANTIC General Notes**

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- PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.
- LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.

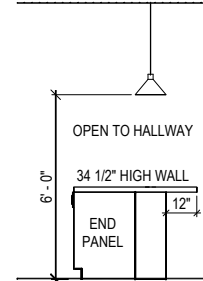
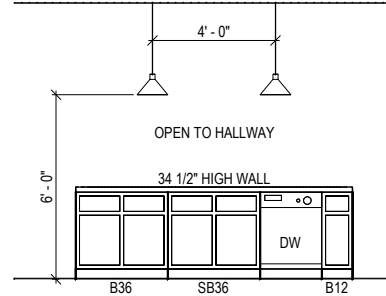
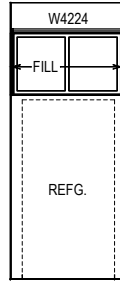
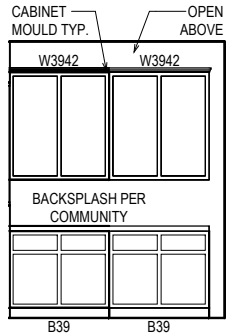
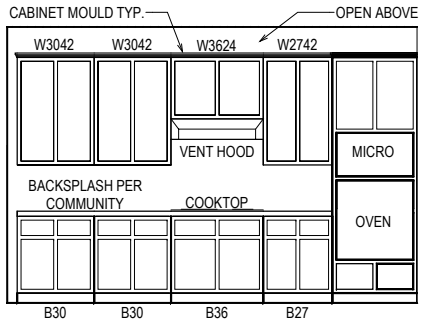
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The measurements, dimensions, and other specifications shown on this document are guidelines for construction use only. This document may not be relied on as a representation of what the completed structure will look like.

**David Weekley Homes**  
BR/JPI/MW Scale: 1/8"=1'-0"  
Date: Rev: 2/11/2023 EB

Proj. No.: 53  
Lot: 3277  
Block: 1  
Sect: 1  
Job No.: 0053

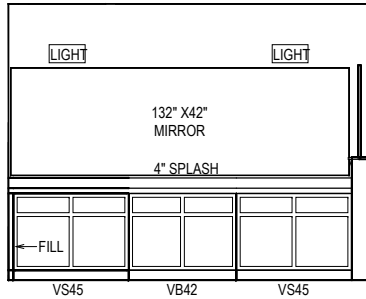
**SERENITY 65'**  
**128 SERENIDIPITY DR**  
**FUQUAY VARINA, NC**

**NORTH**  
**B326-A**  
**ELE-2**  
**BLAKESTONE**  
**RALEIGH**

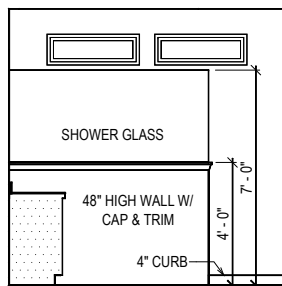


ISLAND

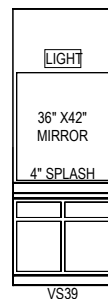
COOKTOP W/ BUILT-IN OVEN/MICRO



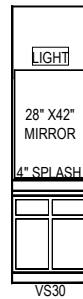
SUPER SHOWER SUPER OWNER'S RETREAT



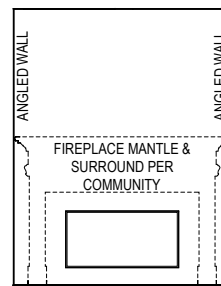
SUPER SHOWER



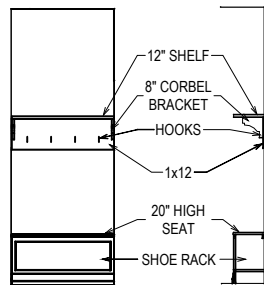
BATH 2



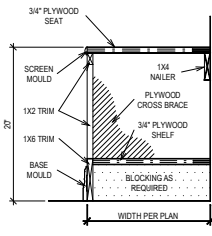
BATH-3



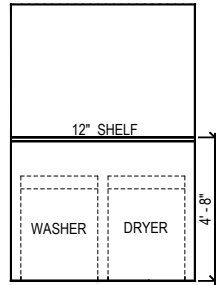
FIREPLACE @ FAMILY



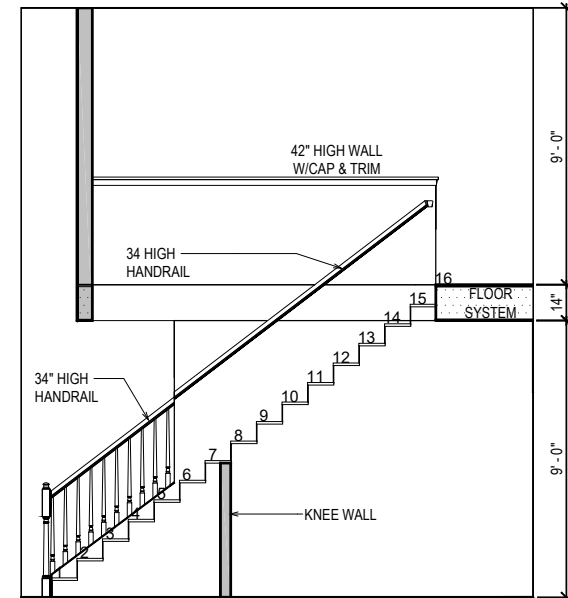
DROP ZONE



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



UTILITY



STAIR SECTION

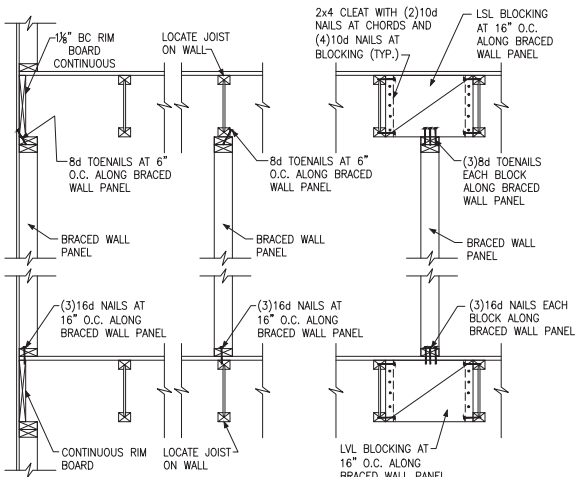
© Weekley Homes, L.P. 2021  
The measurements, dimensions, and other specifications shown on this document are guidelines for construction use only. This document may not be relied on as a representation of what the completed structure will look like.

**David Weekley Homes**  
BR/JPMW Scale: 1/4"=1'-0"  
Date: 03/09/2021 Rev: 2/1/2023 EB

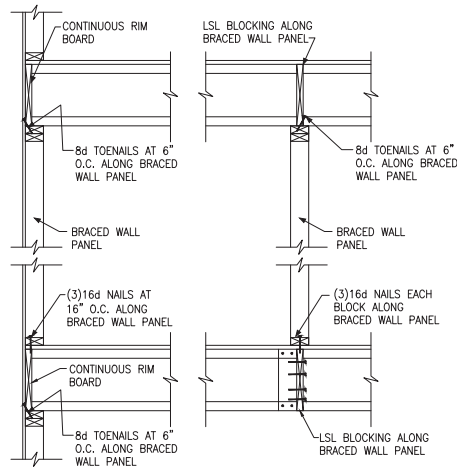
Proj. No.: 53  
Lot: 3277  
Block: 1  
Job No.: 0053  
Sect: 1

SERENITY 65  
128 SERENDIPITY DR  
FUQUAY VARINA, NC

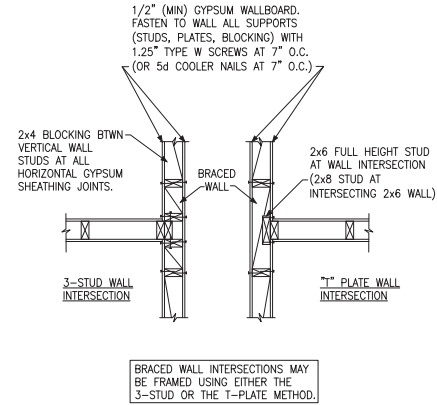
NORTH  
B326-A  
INT-1  
BLAKESTONE  
RALEIGH



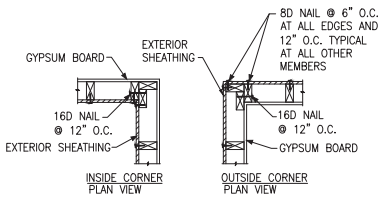
**A** TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION  
BRACED WALL PANELS PARALLEL TO I-JOISTS



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

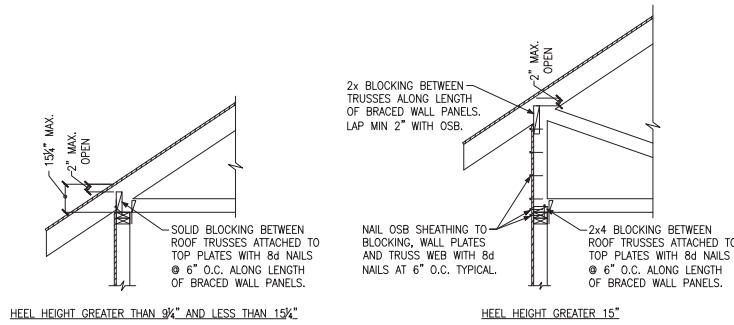


**C** METHOD GB(1) AND GB(2) INTERSECTION DETAILS



**D** TYPICAL EXTERIOR CORNER WALL FRAMING

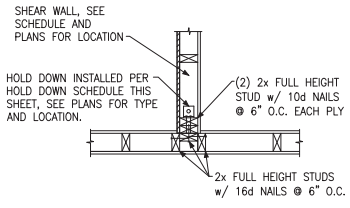
NOTE: A THIRD STUD AND/OR PARTITION INTERSECTION BACKING STUDS SHALL BE PERMITTED TO BE OMITTED THROUGH THE USE OF WOOD BACKUP CLEATS, METAL DRYWALL CLIPS OR OTHER APPROVED DEVICES THAT WILL SERVE AS ADEQUATE BACKING FOR THE FACING MATERIALS.



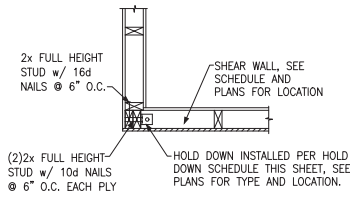
**E** ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS  
ONLY REQUIRED AT BRACED WALL PANELS



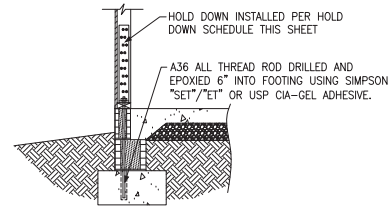




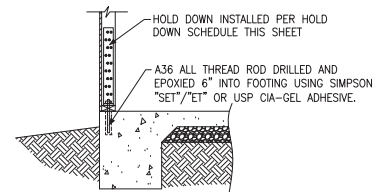
(A) TYPICAL HOLD DOWN DETAIL



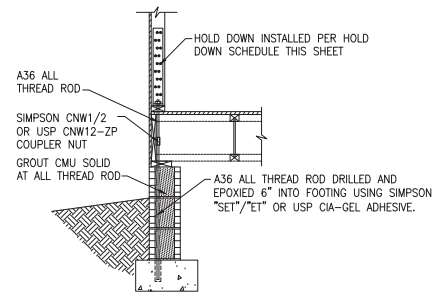
(B) TYPICAL HOLD DOWN DETAIL



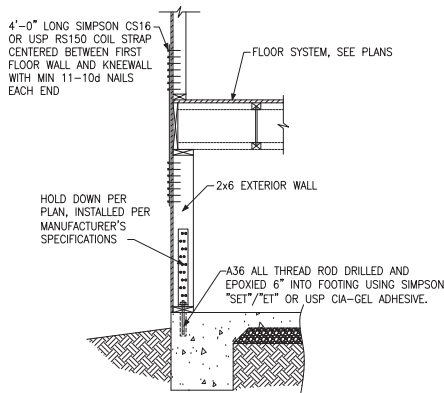
(C) HOLD DOWN AT STEMWALL SLAB



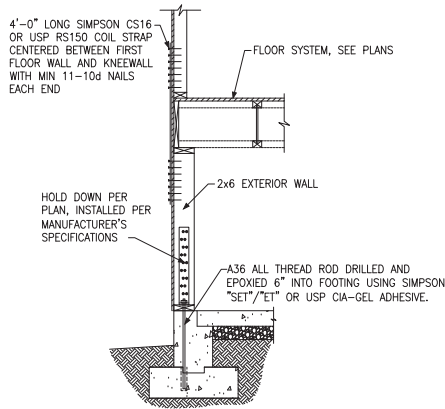
(D) HOLD DOWN AT MONOLITHIC SLAB



(E) HOLD DOWN AT CRAWL FOUNDATION



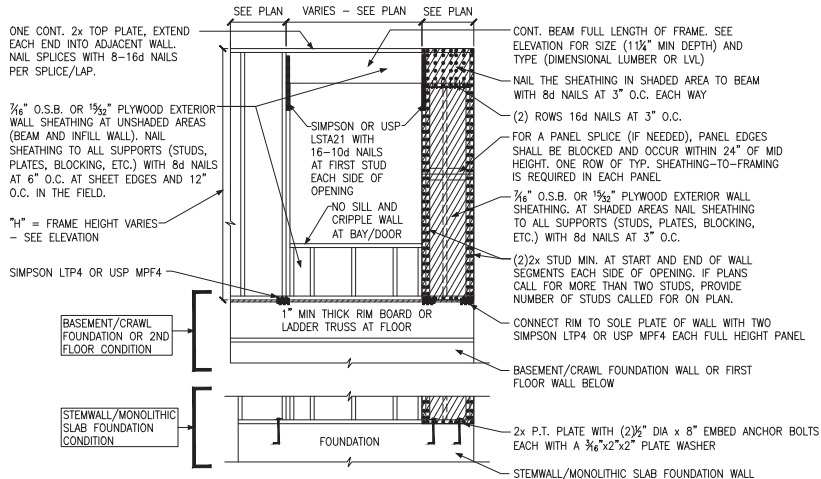
(F) HOLD DOWN AT FOUNDATION MONOLITHIC TURN-DOWN



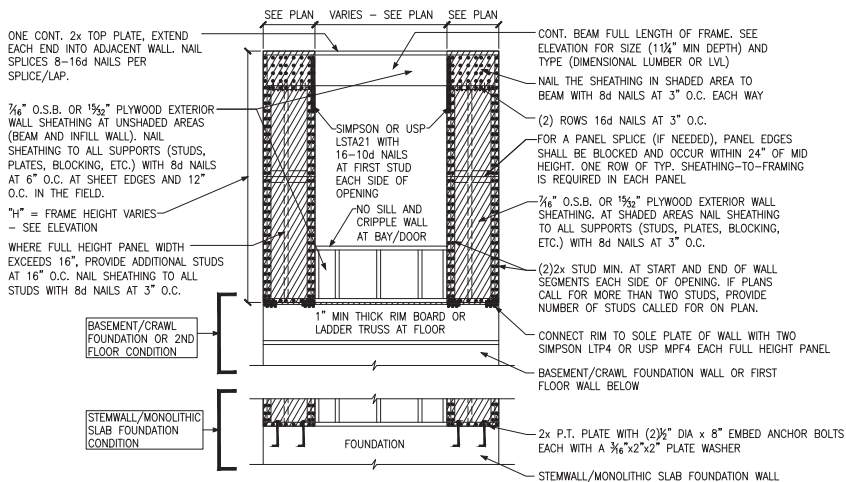
(G) HOLD DOWN AT FOUNDATION STEM WALL

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

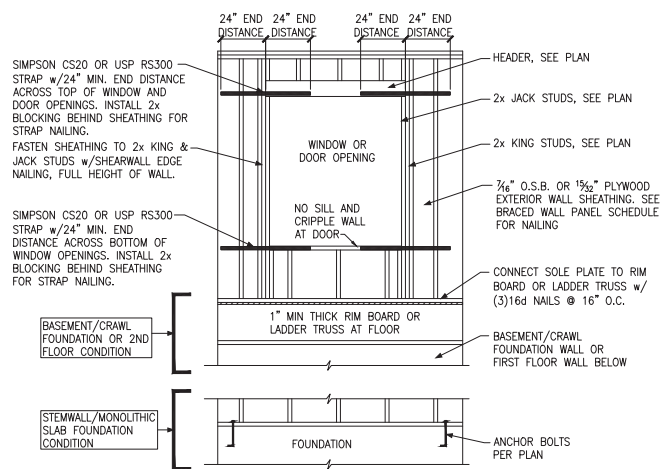




**A** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
ONE BRACED WALL SEGMENT



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



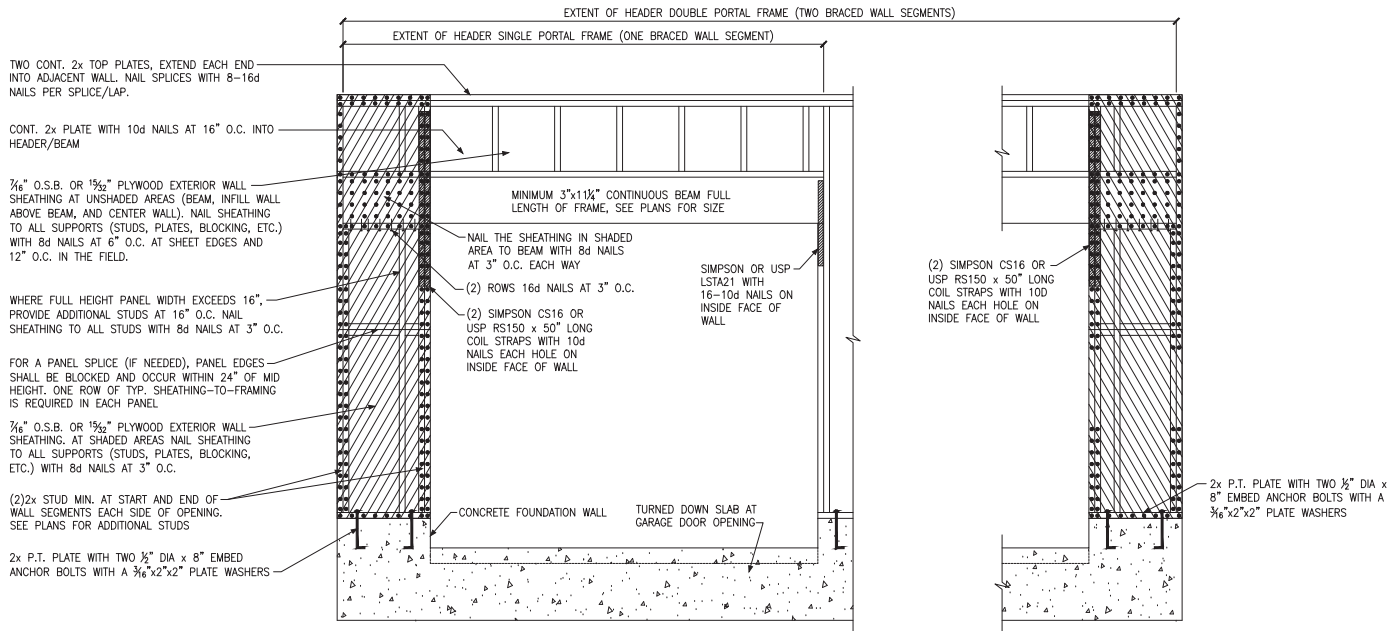
**C** WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL  
ONLY REQUIRED WHERE SPECIFIED ON PLANS

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 GALV. 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 GALV. 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 GALV. 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

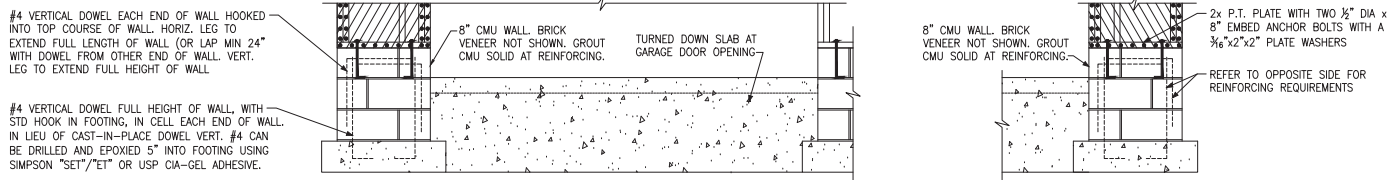
**BRACED WALL PANEL NOTES:**

- 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 7/16" 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.

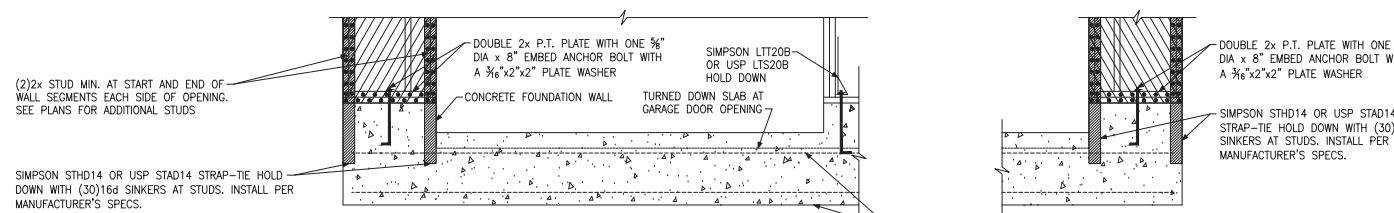




**A** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
MONOLITHIC SLAB OR BASEMENT FOUNDATION

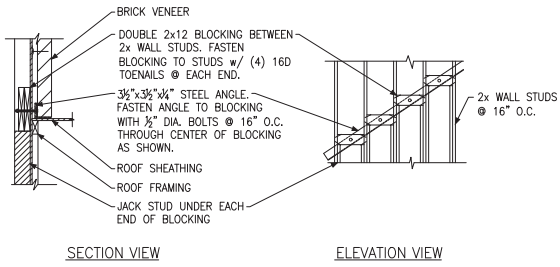


**B** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
STEMWALL SLAB OR CRAWL SPACE FOUNDATION

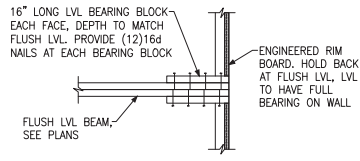


**C** METHOD CS-EPF: ENGINEERED PORTAL FRAME WITH HOLD-DOWNS  
CONTINUOUS #4 HIGH AND LOW. PROVIDE MIN 24" LAPS WHERE SPICED.

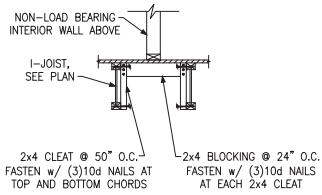




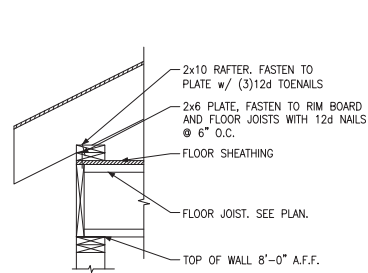
**(A) BRICK LEDGER CONNECTION DETAIL**



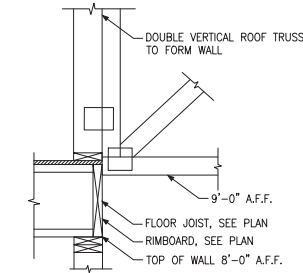
**(B) BEARING ENHANCER FLUSH LVL**



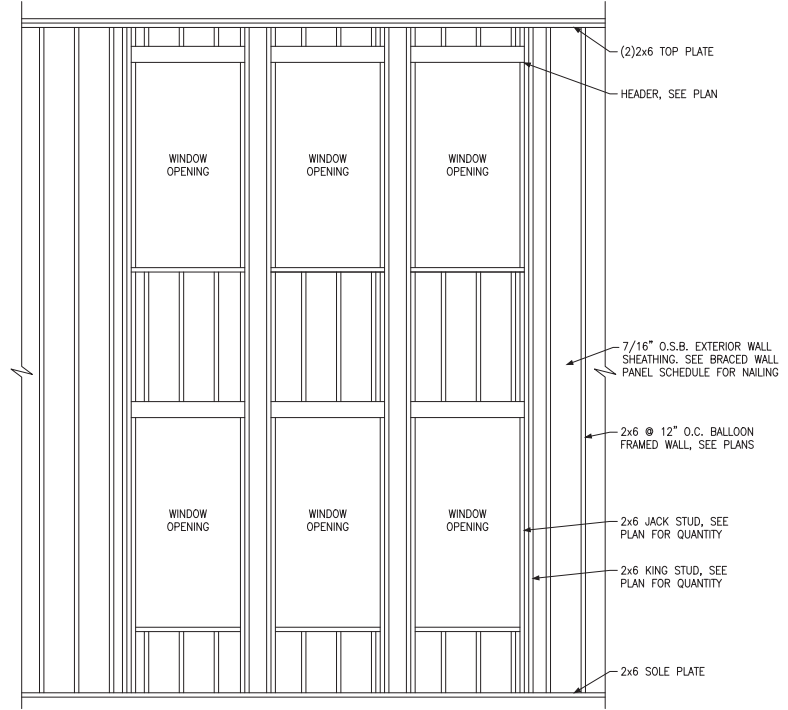
**(C) I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS**



**(E) EXTERIOR WALL DETAIL N.T.S.**



**(F) INTERIOR WALL DETAIL N.T.S.**



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

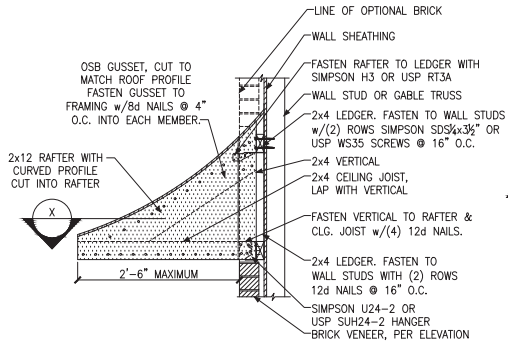
WALL STUD SIZE, HEIGHT & SPACING SCHEDULE						
STUD SIZE	BEARING WALLS			NONBEARING WALLS		
	LATERALLY UNSUPPORTED STUD HEIGHT	MAXIMUM SPACING WHEN SUPPORTING A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY, ONLY	MAXIMUM SPACING WHEN SUPPORTING ONE FLOOR, PLUS A ROOF-CEILING ASSEMBLY OR A HABITABLE 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"



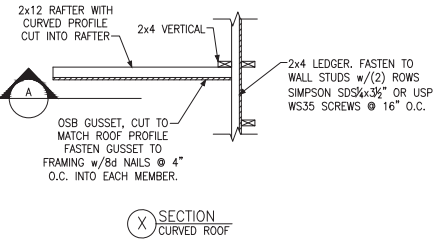
David Weekley Homes  
Raleigh, NC

Miscellaneous Framing Details  
Serenity, Lot #53  
B326 Blakestone Model  
115 M.P.H.  
Raleigh, North Carolina

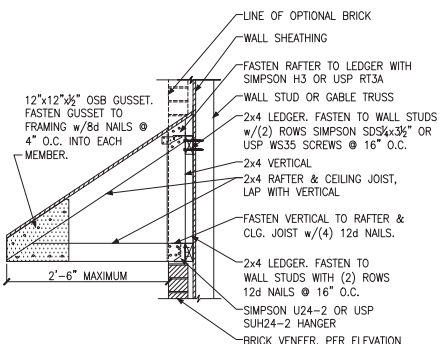
Project #: 047-22002  
Designed By: LMR  
Checked By:  
Issue Date: 2/17/23  
Re-Issue:  
Scale: 1/8"=1'-0" @ 11x17  
1/4"=1'-0" @ 22x34



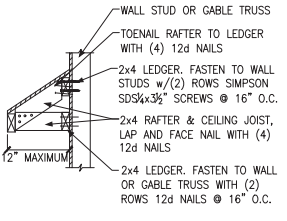
**A PENT ROOF DETAIL**  
CURVED ROOF



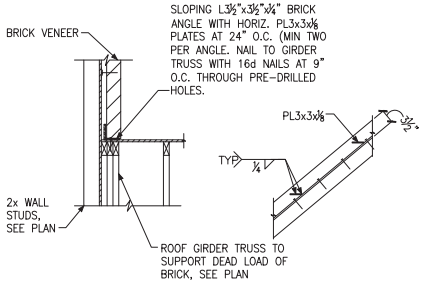
**X SECTION**  
CURVED ROOF



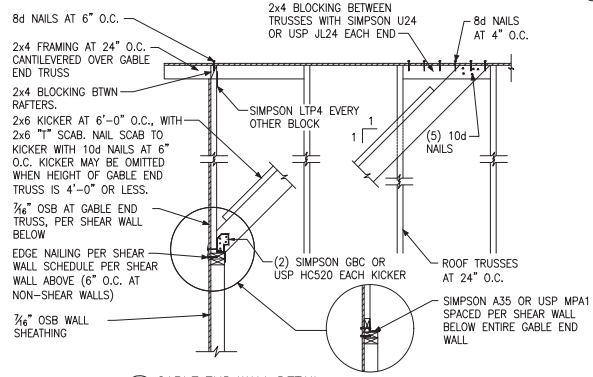
**B PENT ROOF DETAIL**  
STRAIGHT ROOF



**C EYEBROW ROOF DETAIL**  
STRAIGHT ROOF



**D TRUSS DETAIL**



**E GABLE END WALL DETAIL**

**KSE ENGINEERING**  
1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951  
www.kse-eng.com (215) 864-4449

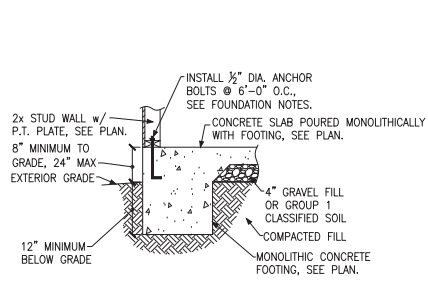
**David Weekley Homes**  
Raleigh, NC

Miscellaneous Framing Details  
Serenity, Lot #53  
B326 Blakestone Model  
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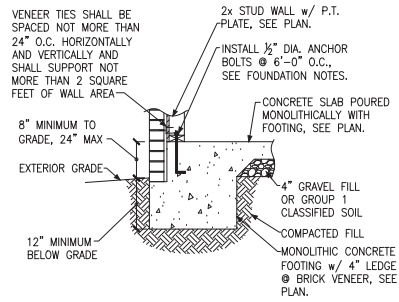
Project #: 047-22002  
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Issue Date: 2/17/23  
Re-Issue:  
Scale: 1/8"=1'-0" @ 11x17  
1/4"=1'-0" @ 22x34

SD-6

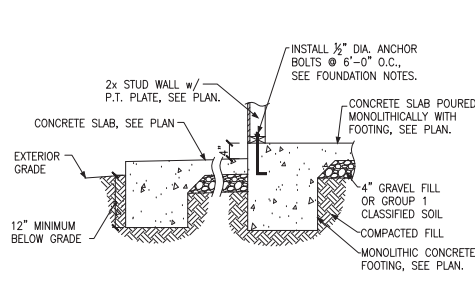




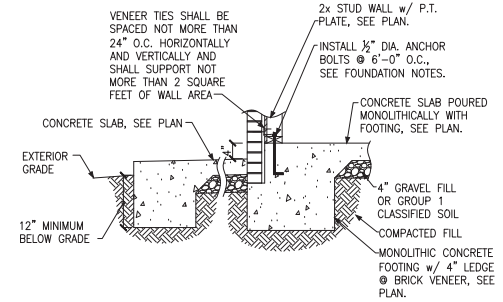
**A** FOUNDATION SECTION  
EXTERIOR WALL



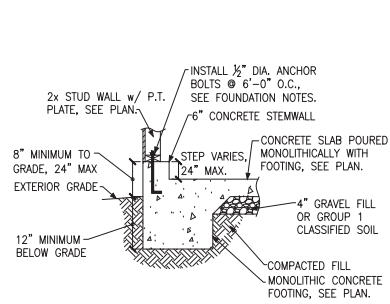
**B** FOUNDATION SECTION  
EXTERIOR WALL @ BRICK VENEER



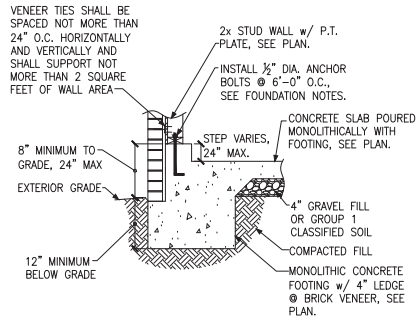
**C** FOUNDATION SECTION  
EXTERIOR WALL AT PORCH



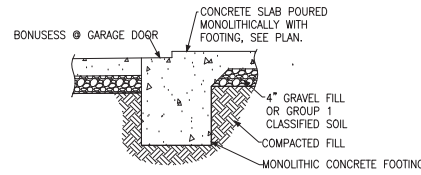
**D** FOUNDATION SECTION  
EXTERIOR WALL AT PORCH w/ BRICK VENEER



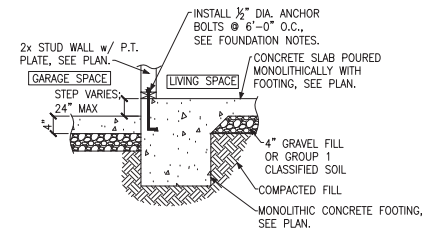
**E** FOUNDATION SECTION  
EXTERIOR GARAGE WALL



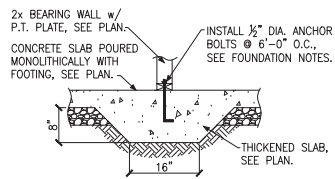
**F** FOUNDATION SECTION  
EXTERIOR GARAGE WALL @ BRICK VENEER



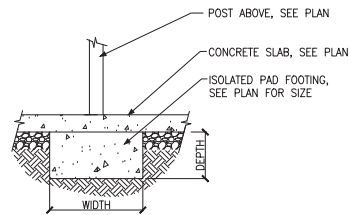
**G** GARAGE DOOR SECTION  
GARAGE DOOR



**H** THICKENED SLAB  
AT GARAGE

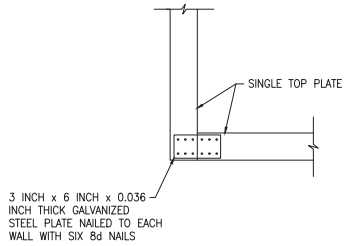


**J** THICKENED SLAB SECTION  
INTERIOR BEARING WALL

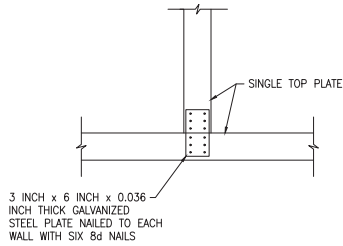


**K** ISOLATED PAD FOOTING  
INTERIOR COLUMN

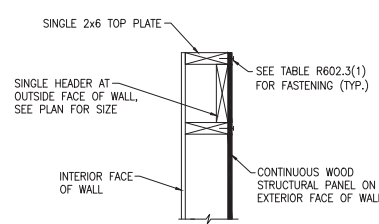




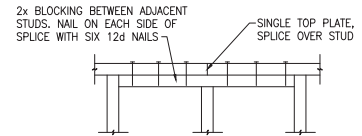
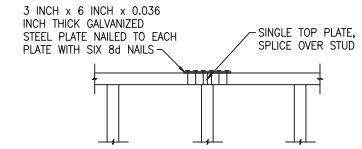
**A** SINGLE TOP PLATE SPLICE  
WALL INTERSECTION



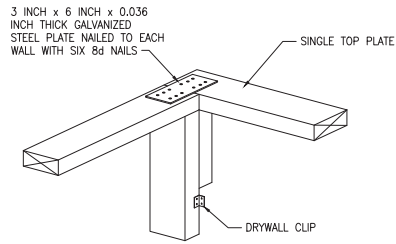
**B** SINGLE TOP PLATE SPLICE  
WALL INTERSECTION



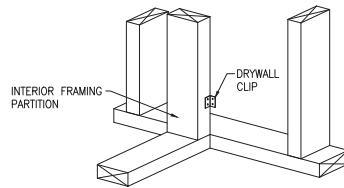
**C** SINGLE LOAD BEARING HEADER  
EXTERIOR WALL



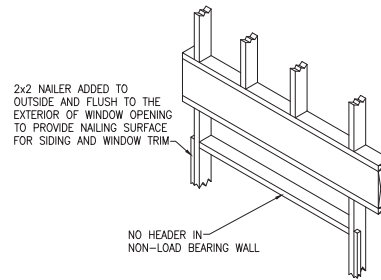
**D** SINGLE TOP PLATE SPLICE  
INTERIOR OR EXTERIOR WALL



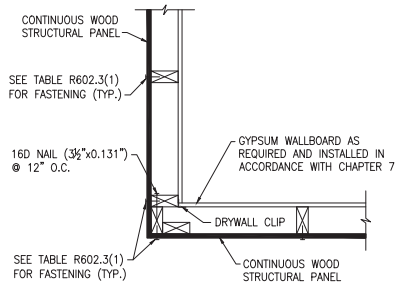
**E** SINGLE TOP PLATE SPLICE  
WALL INTERSECTION



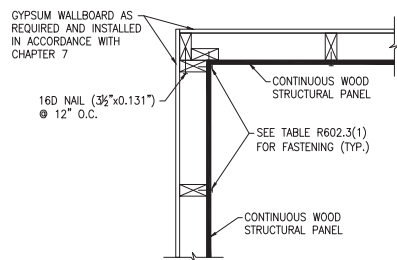
**F** SINGLE TOP PLATE SPLICE  
WALL INTERSECTION



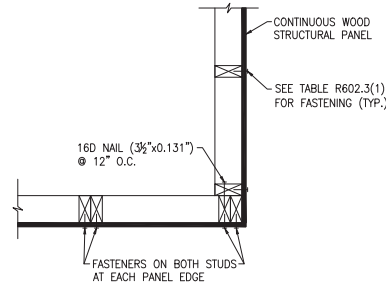
**G** NON-LOAD BEARING HEADER  
EXTERIOR WALL



**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.

