





**SHEET INDEX:**

S-0 COVER SHEET  
 S-0.1 GENERAL STRUCTURAL NOTES  
 S-1 MONOLITHIC SLAB FOUNDATION PLAN  
 S-2 SECOND FLOOR FRAMING PLAN  
 S-3 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

**B330 RANSDALL  
SERENITY, LOT #61**

**RALEIGH, NORTH CAROLINA**

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**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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**David Weekley Homes**  
Raleigh, NC

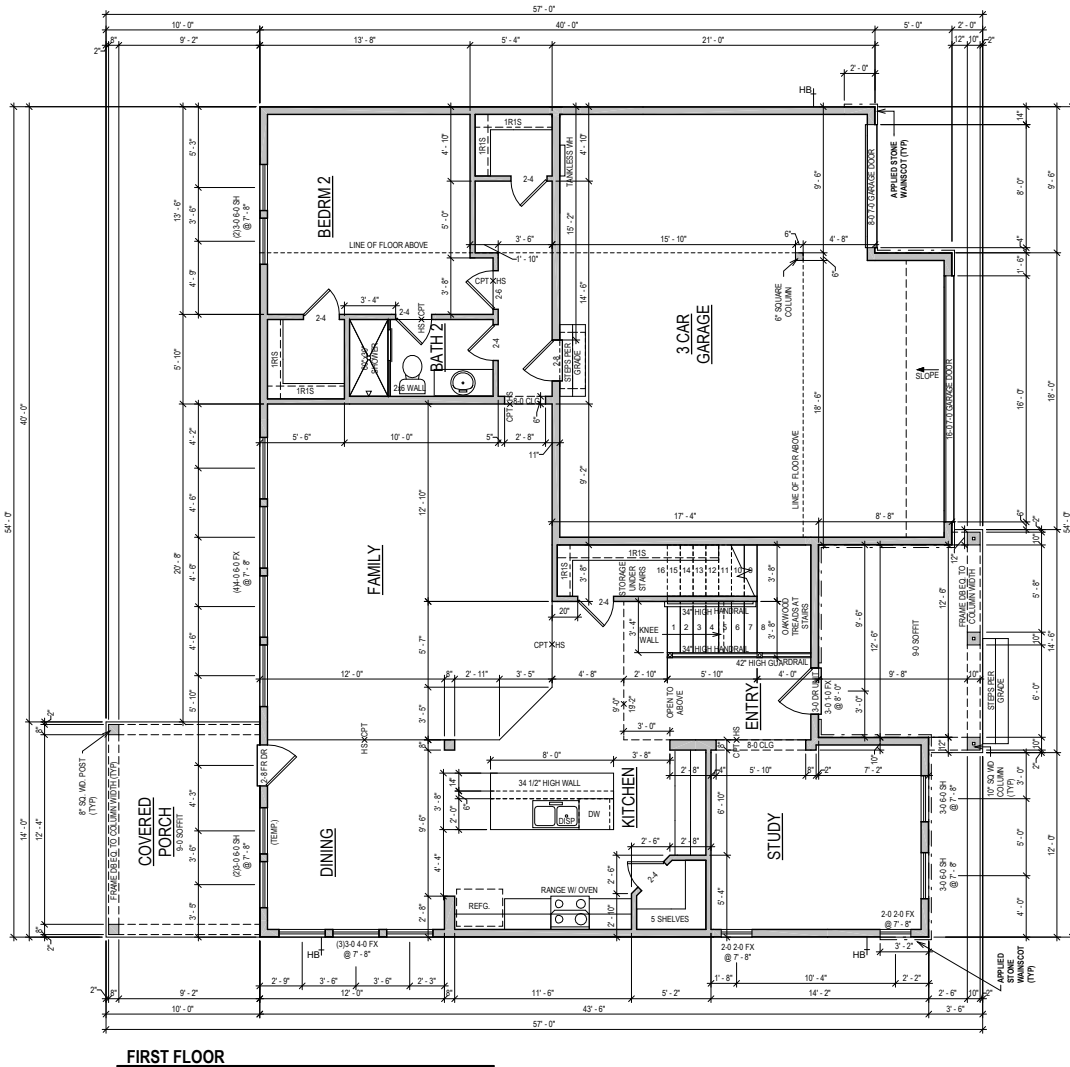
Cover Sheet  
 Serenity, Lot #61  
 B330 Ransdall Model  
 115 M.P.H.  
 Raleigh, North Carolina

Project #: 047-20010  
 Designed By: JPS  
 Checked By:  
 Issue Date: 6/13/22  
 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	1584 SF
2ND FLOOR	1512 SF
<b>TOTAL LIVING</b>	<b>3196 SF</b>
<b>SLAB</b>	
1ST FLOOR	1584 SF
COVERED PORCH	140 SF
FRONT PORCH	130 SF
CARAVAN	671 SF
<b>TOTAL SLAB</b>	<b>2534 SF</b>
<b>FRAMING</b>	
1ST FLOOR	1584 SF
2ND FLOOR	1540 SF
COVERED PORCH	140 SF
FRONT PORCH	130 SF
CARAVAN	671 SF
<b>TOTAL FRAMING</b>	<b>4074 SF</b>

**OPTION LIST**

BASELINE @ EXTERIOR FIRST FLOOR  
24 DOOR @ BATH 2  
TRAY @ OWNER'S RETREAT  
SUPER SHOWER @ BATH 1  
COVERED PORCH  
SHOWER @ BATH 2  
OAK INBOARD S&T STAIRS

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

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

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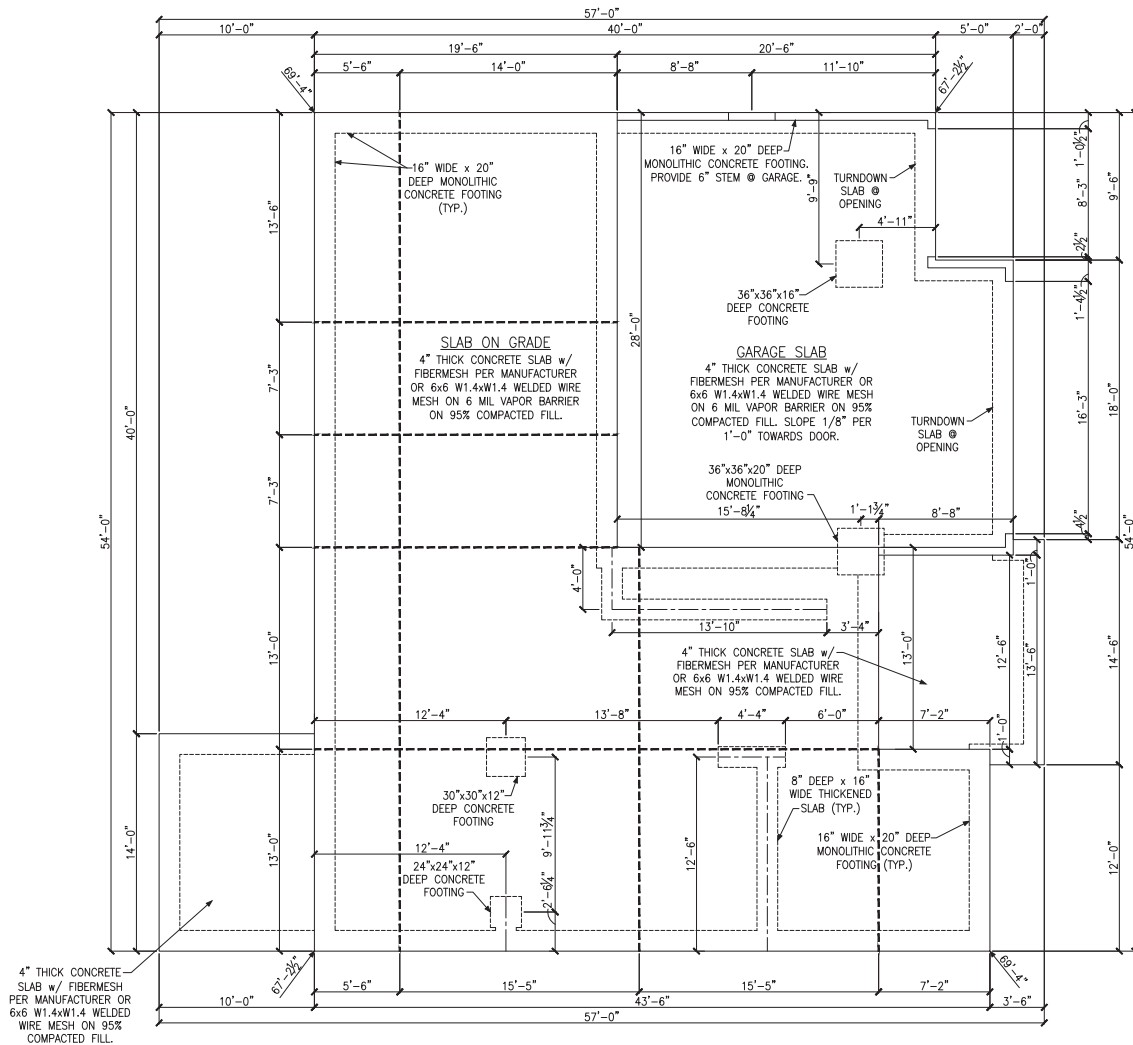
**David Weekley Homes**  
CN/AF/SG Scale: 1/8"=1'-0"  
Date: 10/02/2020 Rev: 12/16/21 EB

Proj. No.: 61  
Lot: 3277  
Block: 0061  
Sect:

**SERENITY 65**  
34 SERENDIPITY DR  
FUQUAY-VARINA, NC

**NORTH**  
**B330-A**  
**PLN-1**  
RANDALL  
RALEIGH





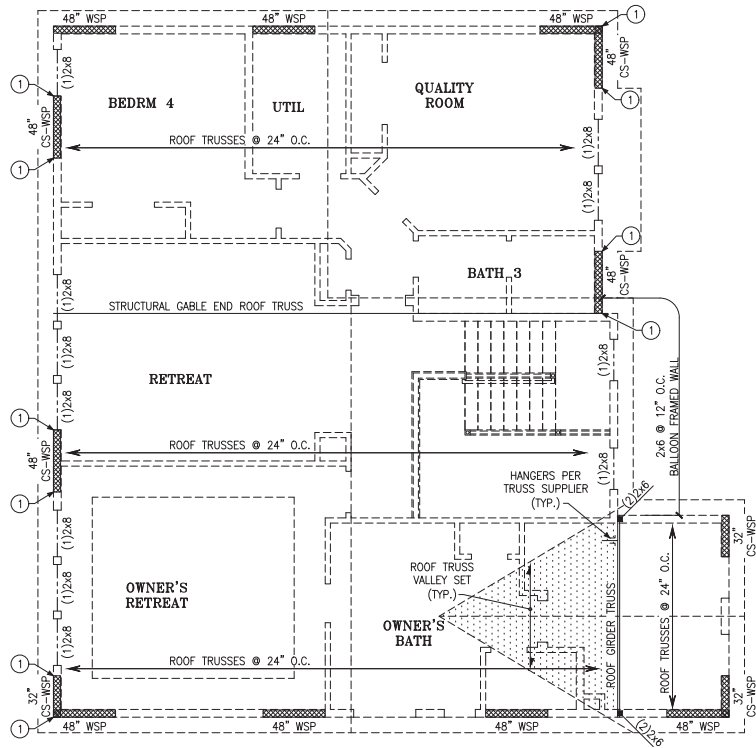
MONOLITHIC SLAB FOUNDATION PLAN

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	







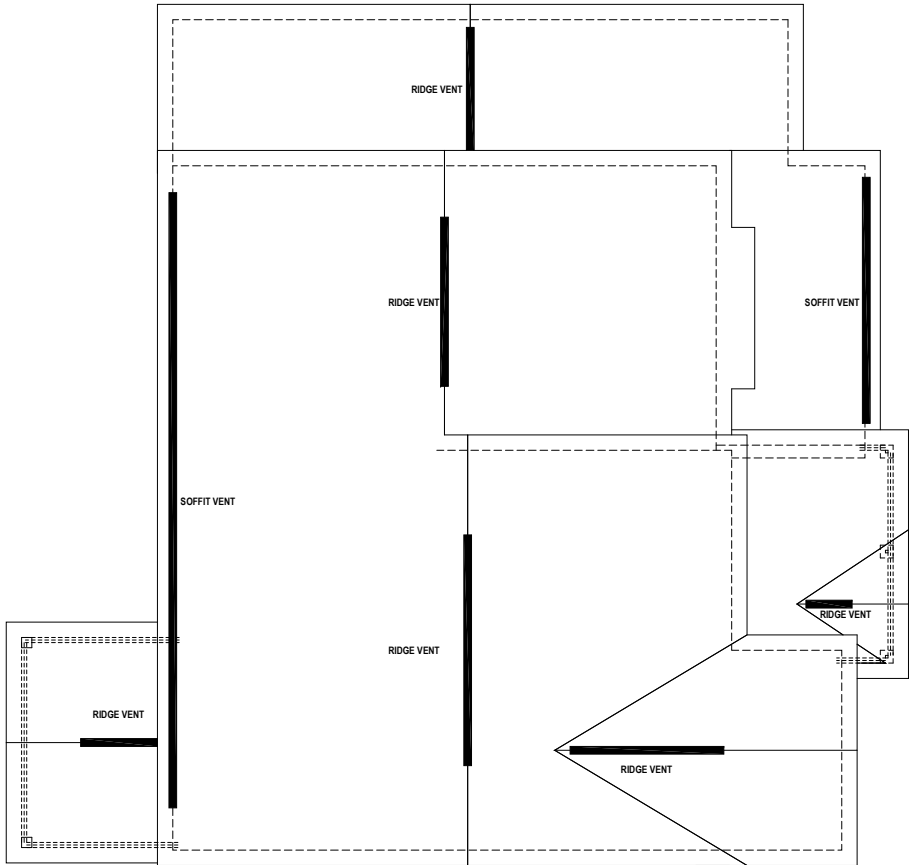


ROOF FRAMING PLAN

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	
<b>KEYNOTES:</b>	
①	AT RAISED FLOOR BELOW, CONNECT STUD AT END OF BRACED WALL PANEL TO FRAMING BELOW WITH A 30" LONG SIMPSON CS30 COIL STRAP WITH MIN 8-104 NAILS EACH END. AT SLAB FOUNDATION BELOW, CONNECT STUD TO FOUNDATION w/ SIMPSON DTT12 w/ SIMPSON 3/8"x6" TITEN HD SCREW ANCHOR AND 3/8" MINIMUM EMBEDMENT.







**ATTIC VENT CALCULATIONS**

ROOF VENT CALCULATION:  
 ATTIC SPACE: 2534 SQ.FT.  
 REQUIRED VENTILATION: 1216 SQ.IN. REQ.  
 SOFFIT VENT PROVIDED: 56 LINEAL FEET  
 RIDGE VENT PROVIDED: 52 LINEAL FEET  
 AIR HAWK VENT PROVIDED: 0 UNITS  
 PROVIDED VENTILATION: 1216 SQ.IN.  
 50-80% IN UPPER PORTION: 77%

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**David Weekley Homes**  
 CN/AF/SG      Scale: 1/8"=1'-0"  
 Date:              Rev: 12/16/21 EB

Proj. No.: 61  
 Lot: 3277  
 Block:      Sect:  
 Job No.: 0061

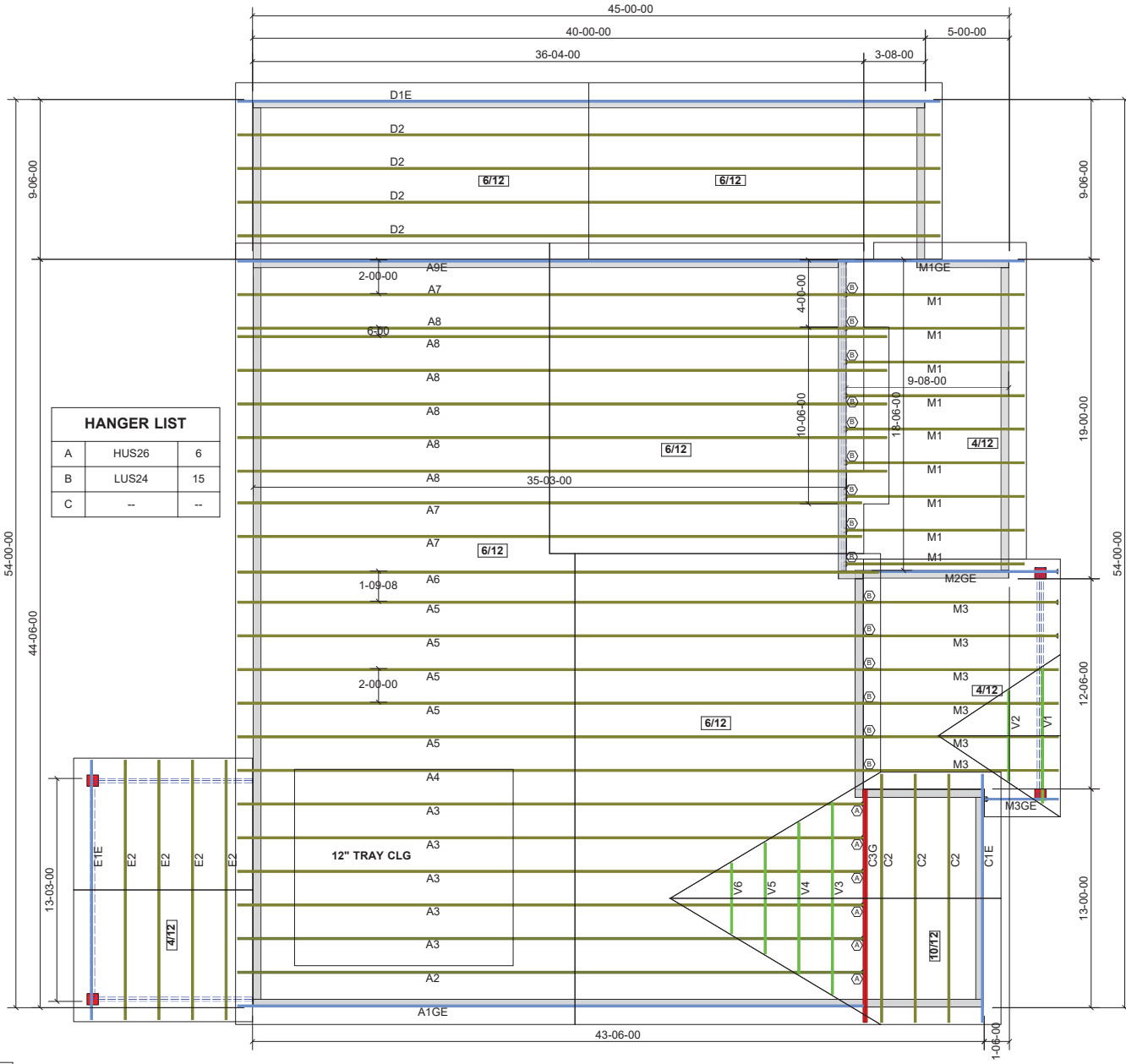
**SERENITY 65'**  
**34 SERENDIPITY DR**  
**FUQUAY-VARINA, NC**

**NORTH**  
**B330-A**  
**RFP-2**  
 RANSBALL  
 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



HANGER LIST		
A	HUS26	6
B	LUS24	15
C	-	-

1st Level Roof Area 1043.78	2nd Level Roof Area 2145.24
--------------------------------	--------------------------------

PROJECT: 61 SERENITY

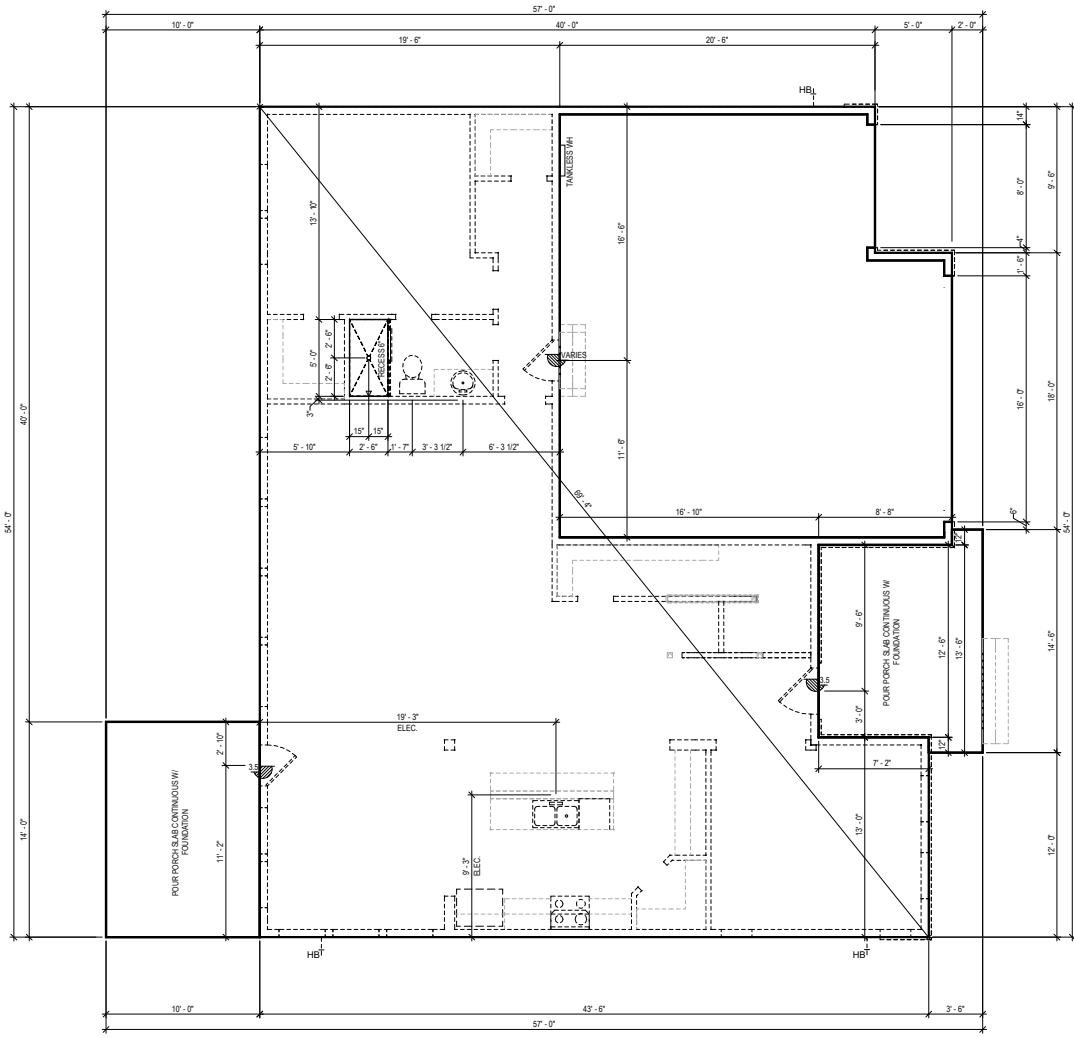
CUSTOMER: DAVID WEEKLY

MODEL: B330-A RANSALL w/Tr/Clg

ORDER #: 32559A  
 PRINT DATE: 8/19/2022  
 DRAWN BY: CRS  
 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:  
 1- DO NOT CUT OR MODIFY TRUSSES  
 2- TRUSSES ARE SPACED 24" ON CENTER UNLESS OTHERWISE NOTED  
 3- REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTIPLY CONNECTION REQUIREMENTS.  
 4- PER ANSI TRU-1-2009 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLACEMENT PLAN COMMENTS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE TRUSS ENGINEER.  
 5- TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.



**FIRST FLOOR**

SEE ENGINEERING FOR ANCHOR BOLT REQUIREMENTS

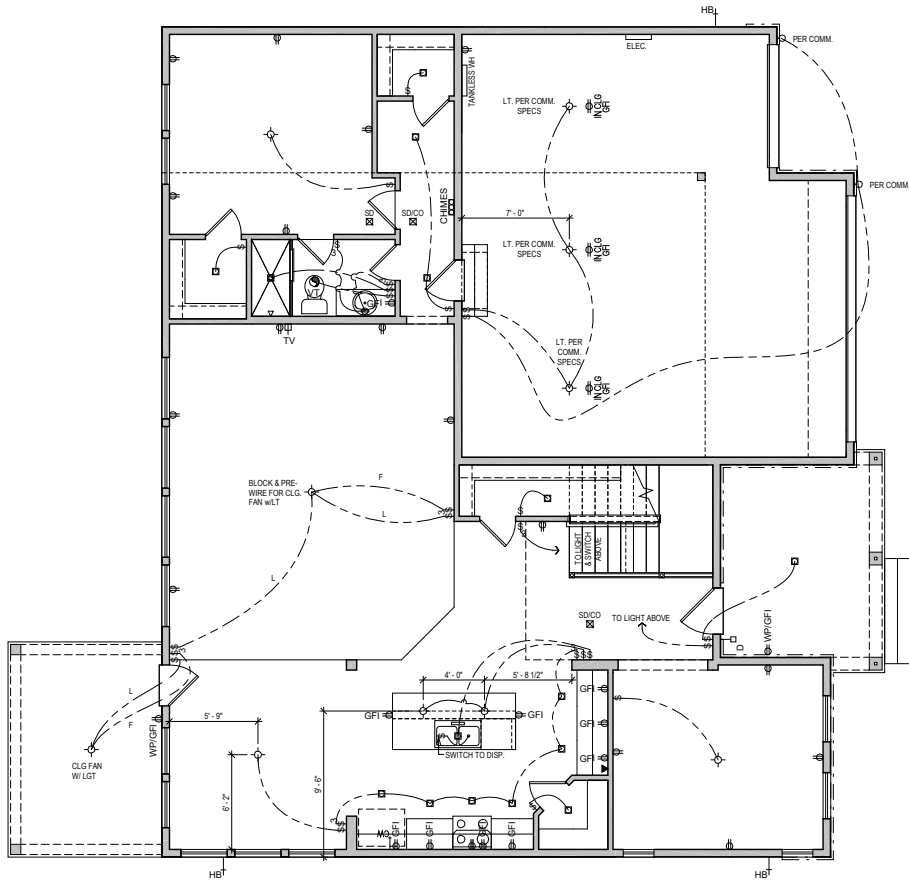
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 CN/AF/SG Date: 10/02/2020 Scale: 1/8"=1'-0" Rev: 12/16/21 EB

Proj. No.: 61  
 Lot: 3277  
 Job No.: 0061  
 Block: Sect:

**SERENITY 65**  
**34 SERENDIPITY DR**  
**FUQUAY-VARINA, NC**

**NORTH**  
**B330-A**  
**FS-1**  
 RANSBALL  
 RALEIGH



FIRST FLOOR

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

CITY SPECIFIC  
VIALT 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
1/2	HALF HOT OUTLET	SD	SMOKE DETECTOR (CARBON MONOXIDE AS NOTED)
⊕	220V OUTLET (30" A.F.F. @ UTILITY)	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 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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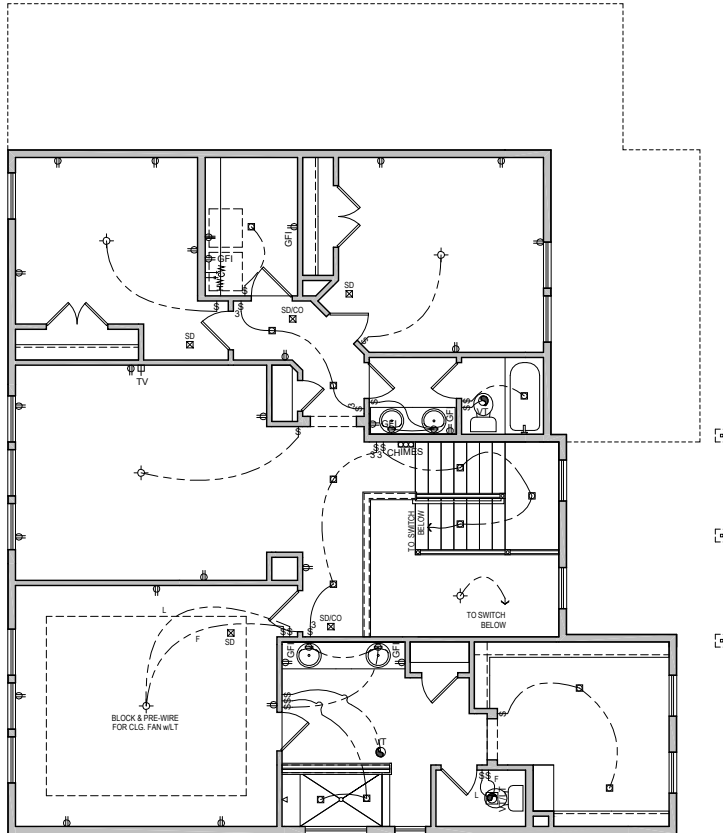
David Weekley Homes  
CN/AFISG Date: 10/02/2020 Scale: 1/8"=1'-0" Rev: 12/16/21 EB

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SERENITY 65  
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RALEIGH

**SECOND FLOOR**



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

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

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 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.

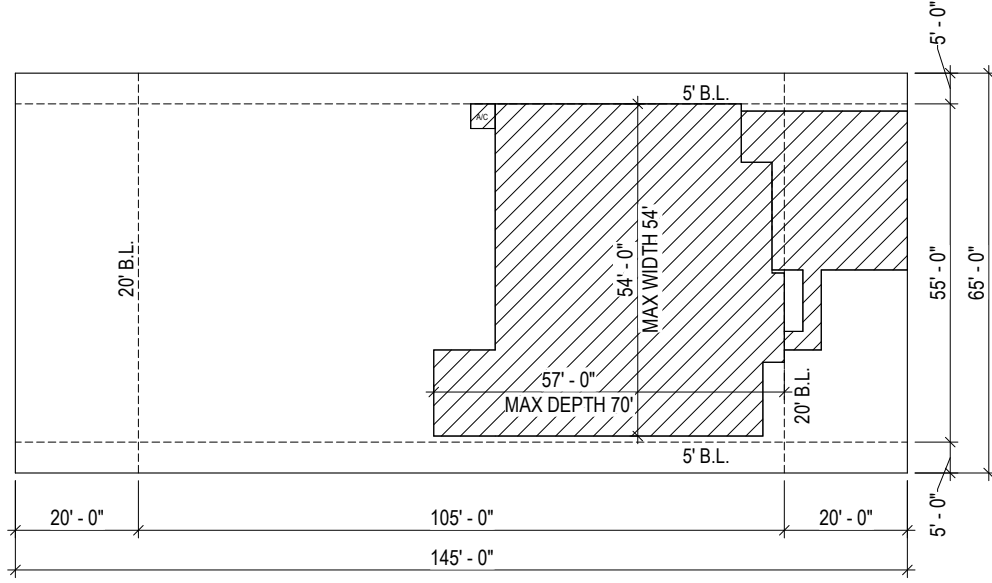
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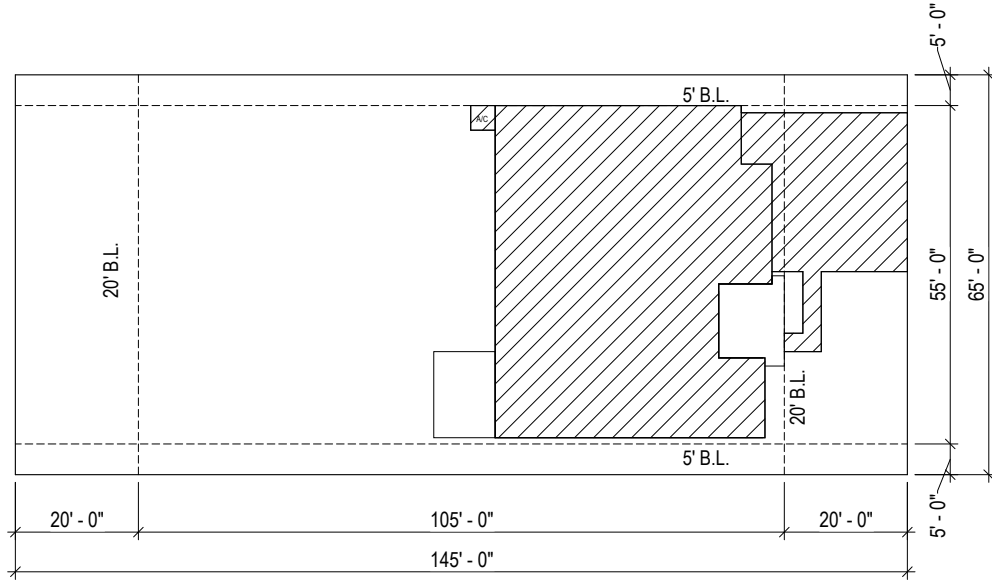
**SERENITY 65'**  
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**NORTH**  
**B330-A**  
**ELE-2**  
**RANSDALL**  
**RALEIGH**



SLAB	2534 SQFT
FLAT WORK	674 SQFT
IMPERVIOUS COVERAGE	3208 SQFT
MAX COVERAGE	3600 SQFT

**PLOT PLAN - A**



SLAB	2538 SQFT
FLAT WORK	674 SQFT
IMPERVIOUS COVERAGE	3212 SQFT
MAX COVERAGE	3600 SQFT

**PLOT PLAN - B**

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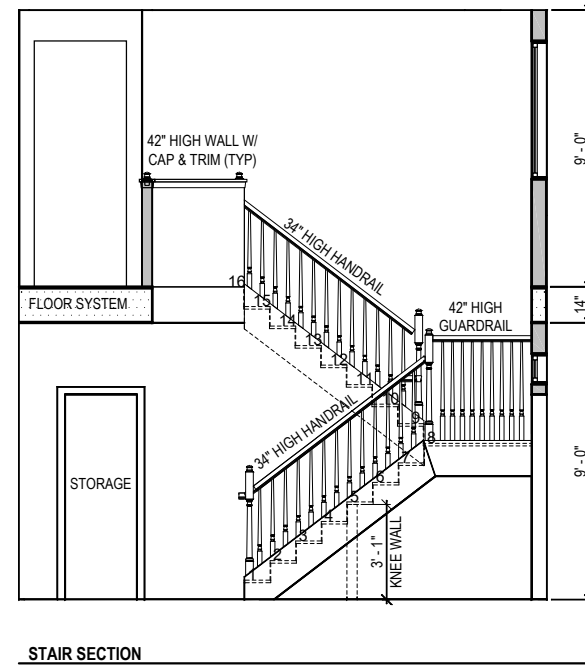
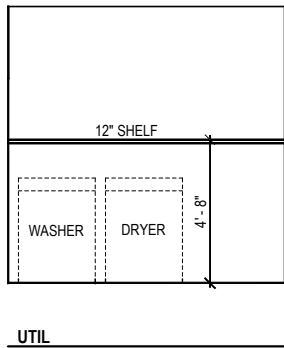
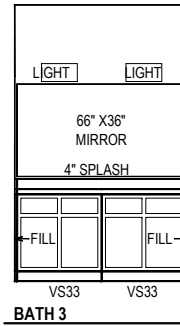
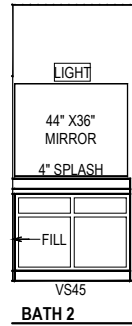
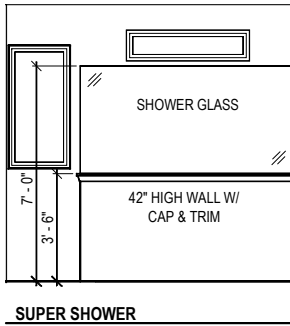
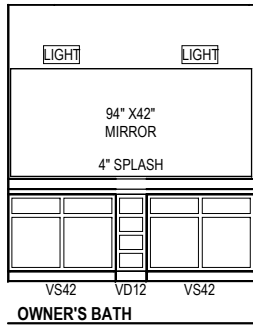
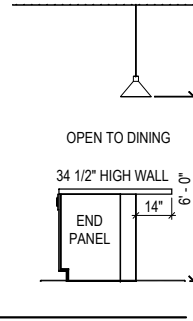
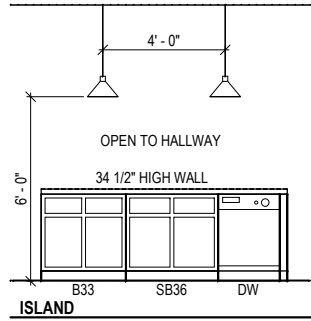
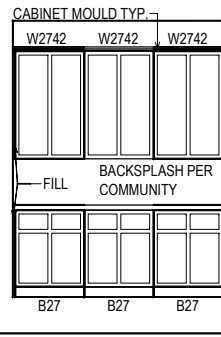
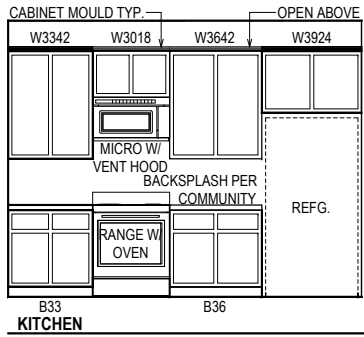
**David Weekley Homes**  
 CNA/AFISG Date: 10/02/2020 Scale: 1/8" = 1'-0" Rev: 12/16/21EB

**SERENITY 65'**  
**34 SERENDIPITY DR**  
**FUQUAY-VARINA, NC**

Proj. No.: 3277  
 Lot: 61  
 Job No.: 0061  
 Block:  
 Sect:

**NORTH**  
**B330-A**  
**PLT-1**  
 RANSALL  
 RALEIGH





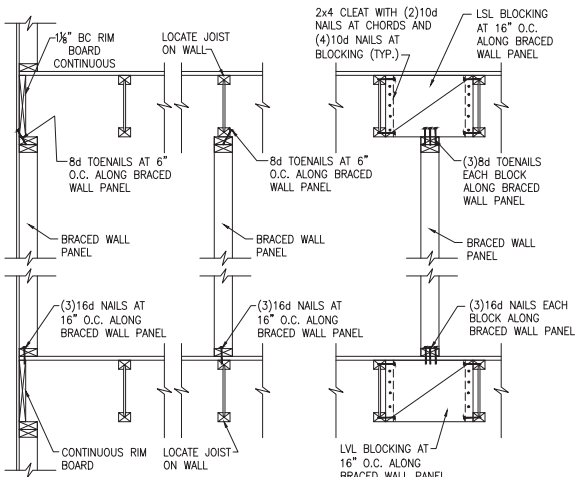
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 Date: 08/11/2021 Rev: 12/16/21 EB

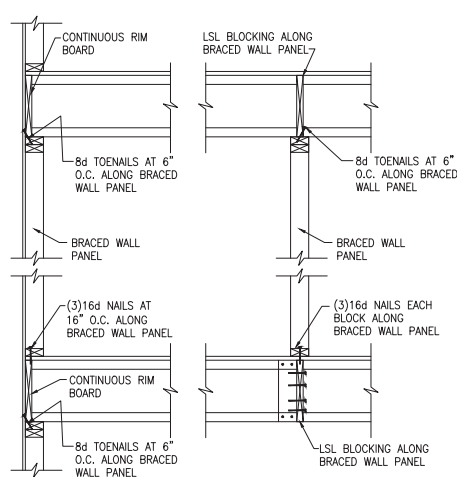
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**SERENITY 65**  
**34 SERENIDIPITY DR**  
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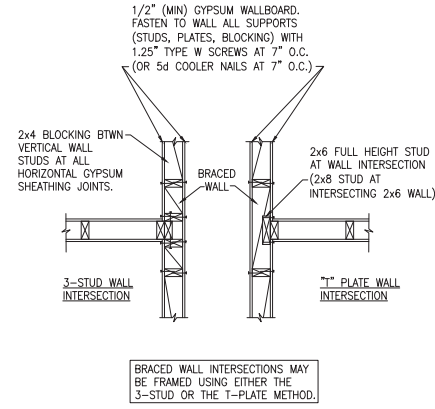
**NORTH**  
**B330-A**  
**INT-1**  
 RANSDELL  
 RALEIGH



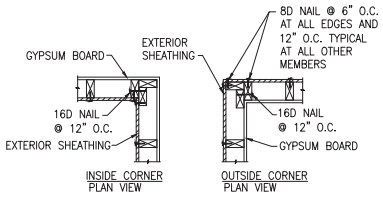
**A** TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION  
BRACED WALL PANELS PARALLEL TO I-JOISTS



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

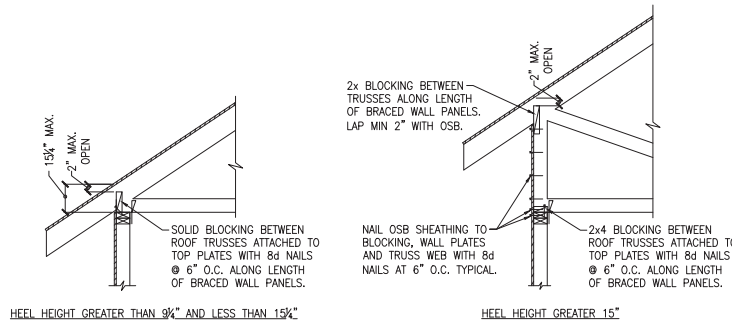


**C** METHOD GB(1) AND GB(2) INTERSECTION DETAILS



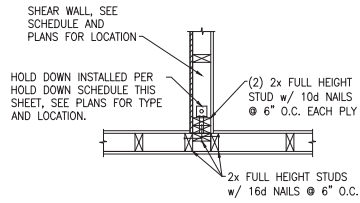
**D** TYPICAL EXTERIOR CORNER WALL FRAMING

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.

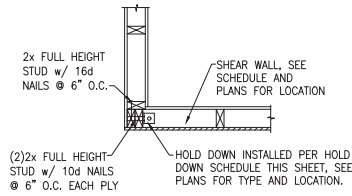


**E** ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS  
ONLY REQUIRED AT BRACED WALL PANELS

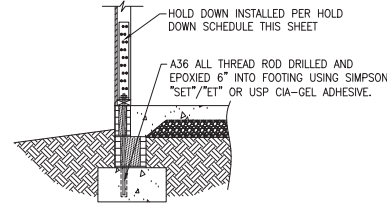




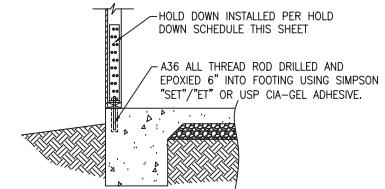
(A) TYPICAL HOLD DOWN DETAIL



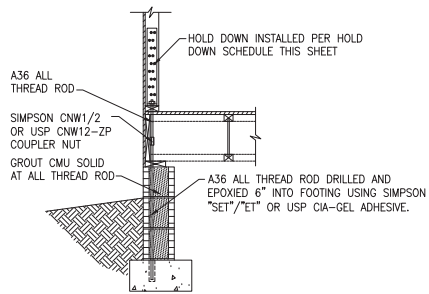
(B) TYPICAL HOLD DOWN DETAIL



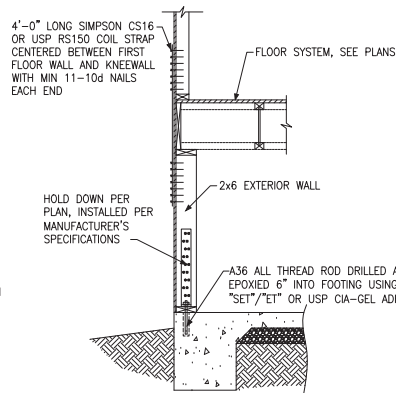
(C) HOLD DOWN AT STEMWALL SLAB



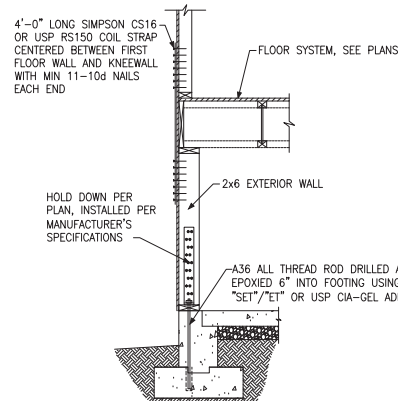
(D) HOLD DOWN AT MONOLITHIC SLAB



(E) HOLD DOWN AT CRAWL FOUNDATION



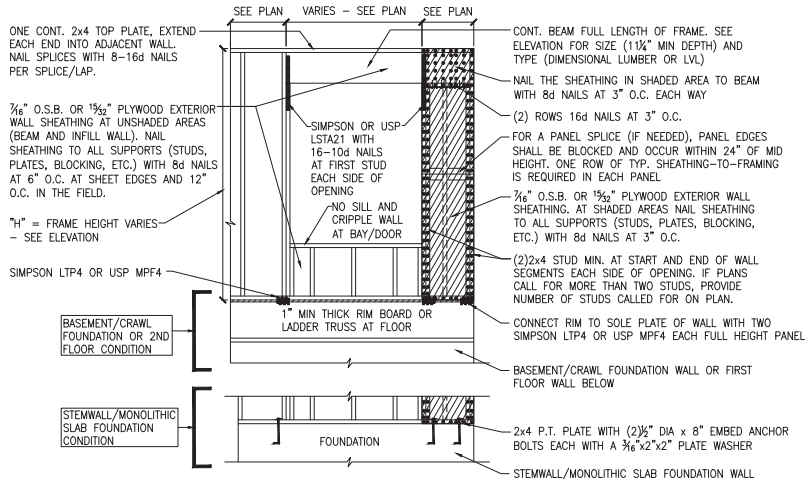
(F) HOLD DOWN AT FOUNDATION MONOLITHIC TURN-DOWN



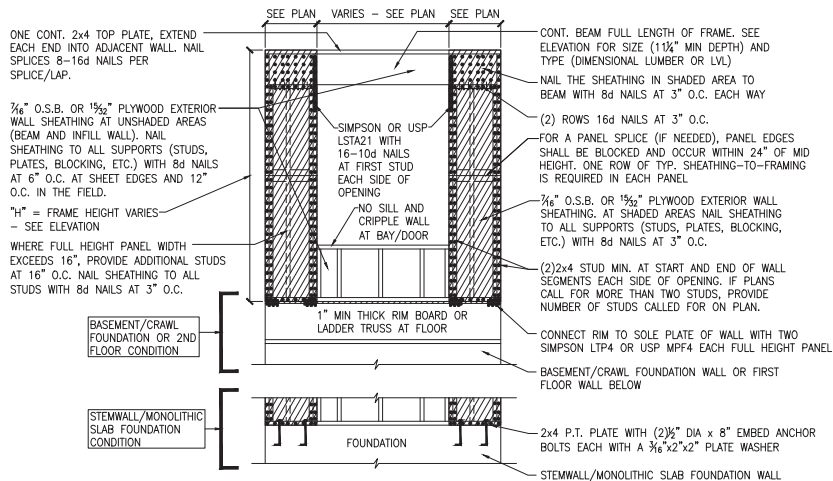
(G) HOLD DOWN AT FOUNDATION STEM WALL

HOLD DOWN SCHEDULE			
HOLD DOWN		ALL TREAD ROD	FASTENERS
SIMPSON	USP		
LTP2	LTS20B	½" DIA.	(10)10d NAILS
HTT4	HTT16	¾" DIA.	(18)16dx2½" LONG NAILS
HTT5	HTT45	¾" DIA.	(26)16dx2½" LONG NAILS

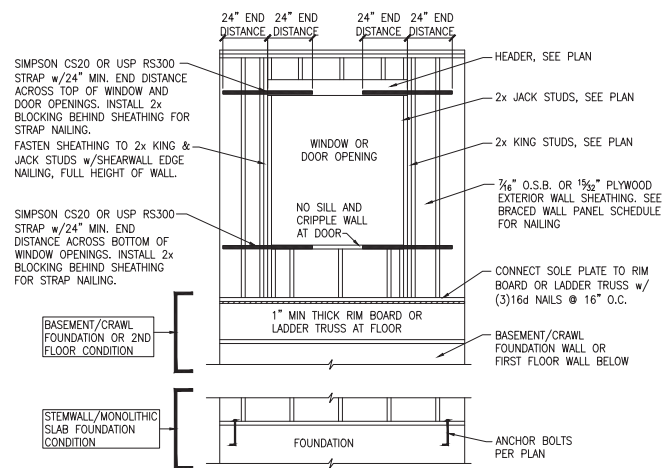




**A** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
ONE BRACED WALL SEGMENT



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



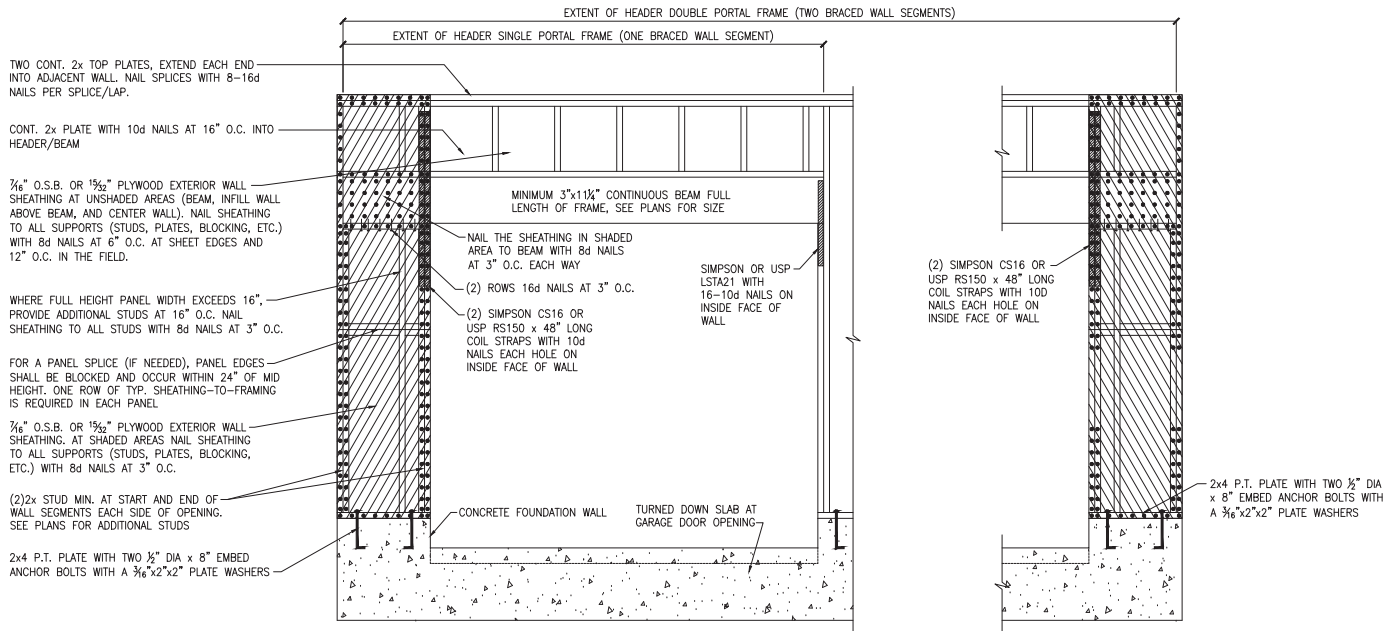
**C** WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL  
ONLY REQUIRED WHERE SPECIFIED ON PLANS

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

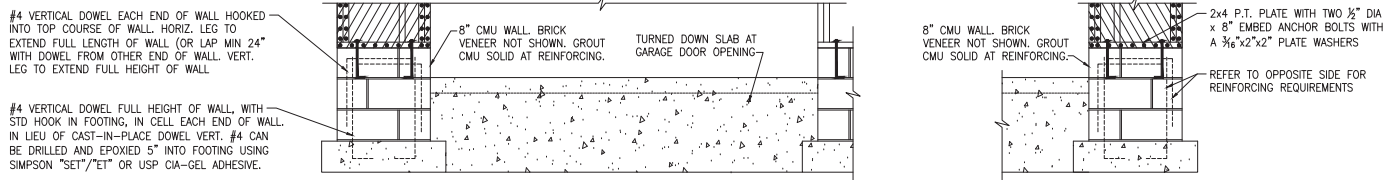
**BRACED WALL PANEL NOTES:**

- 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 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.

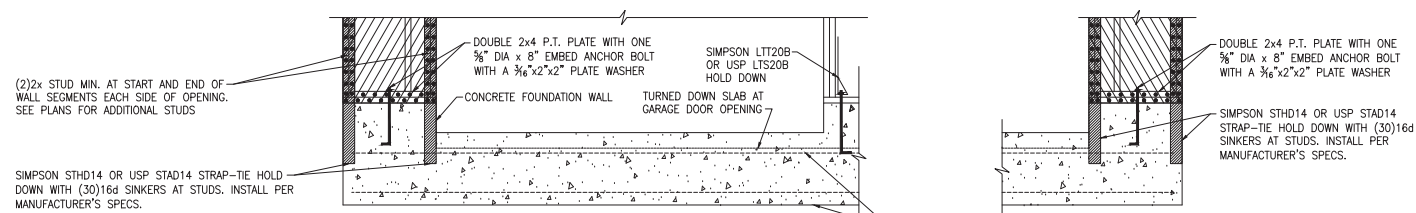




**(A) METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION**  
MONOLITHIC SLAB OR BASEMENT FOUNDATION



**(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**

TWO CONT. 2x TOP PLATES, EXTEND EACH END INTO ADJACENT WALL. NAIL SPLICES WITH 8-16d NAILS PER SPLICE/LAP.

CONT. 2x PLATE WITH 10d NAILS AT 16\"/>

3/4\"/>

WHERE FULL HEIGHT PANEL WIDTH EXCEEDS 16\", PROVIDE ADDITIONAL STUDS AT 16\"/>

FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES SHALL BE BLOCKED AND OCCUR WITHIN 24\"/>

3/4\"/>

(2)2x STUD MIN. AT START AND END OF WALL SEGMENTS EACH SIDE OF OPENING. SEE PLANS FOR ADDITIONAL STUDS

2x4 P.T. PLATE WITH TWO 1/2\"/>

EXTENT OF HEADER DOUBLE PORTAL FRAME (TWO BRACED WALL SEGMENTS)

EXTENT OF HEADER SINGLE PORTAL FRAME (ONE BRACED WALL SEGMENT)

MINIMUM 3"x1 1/4\"/>

NAIL THE SHEATHING IN SHADED AREA TO BEAM WITH 8d NAILS AT 3\"/>

(2) ROWS 16d NAILS AT 3\"/>

SIMPSON OR USP LSTA21 WITH 16-10d NAILS ON INSIDE FACE OF WALL

(2) SIMPSON CS16 OR USP RS150 x 48\"/>

CONCRETE FOUNDATION WALL

TURNED DOWN SLAB AT GARAGE DOOR OPENING

(2) SIMPSON CS16 OR USP RS150 x 48\"/>

2x4 P.T. PLATE WITH TWO 1/2\"/>

#4 VERTICAL DOWEL EACH END OF WALL HOOKED INTO TOP COURSE OF WALL. HORIZ. LEG TO EXTEND FULL LENGTH OF WALL (OR LAP MIN 24\"/>

#4 VERTICAL DOWEL FULL HEIGHT OF WALL, WITH STD HOOK IN FOOTING, IN CELL EACH END OF WALL. IN LIEU OF CAST-IN-PLACE DOWEL VERT. #4 CAN BE DRILLED AND EPOXIED 5\"/>

8\"/>

TURNED DOWN SLAB AT GARAGE DOOR OPENING

8\"/>

TURNED DOWN SLAB AT GARAGE DOOR OPENING

2x4 P.T. PLATE WITH TWO 1/2\"/>

REFER TO OPPOSITE SIDE FOR REINFORCING REQUIREMENTS

(2)2x STUD MIN. AT START AND END OF WALL SEGMENTS EACH SIDE OF OPENING. SEE PLANS FOR ADDITIONAL STUDS

SIMPSON STD14 OR USP STAD14 STRAP-TIE HOLD DOWN WITH (30)16d SINKERS AT STUDS. INSTALL PER MANUFACTURER'S SPECS.

DOUBLE 2x4 P.T. PLATE WITH ONE 3/8\"/>

CONCRETE FOUNDATION WALL

TURNED DOWN SLAB AT GARAGE DOOR OPENING

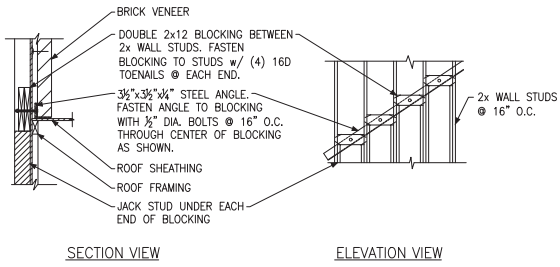
SIMPSON LTT20B OR USP LTS20B HOLD DOWN

DOUBLE 2x4 P.T. PLATE WITH ONE 3/8\"/>

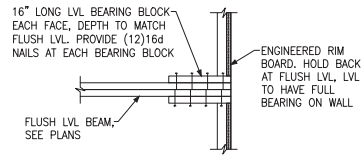
SIMPSON STD14 OR USP STAD14 STRAP-TIE HOLD DOWN WITH (30)16d SINKERS AT STUDS. INSTALL PER MANUFACTURER'S SPECS.

CONTINUOUS #4 HIGH AND LOW. PROVIDE MIN 24\"/>

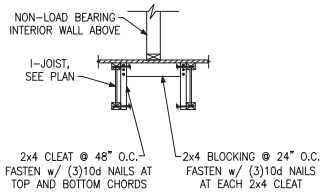




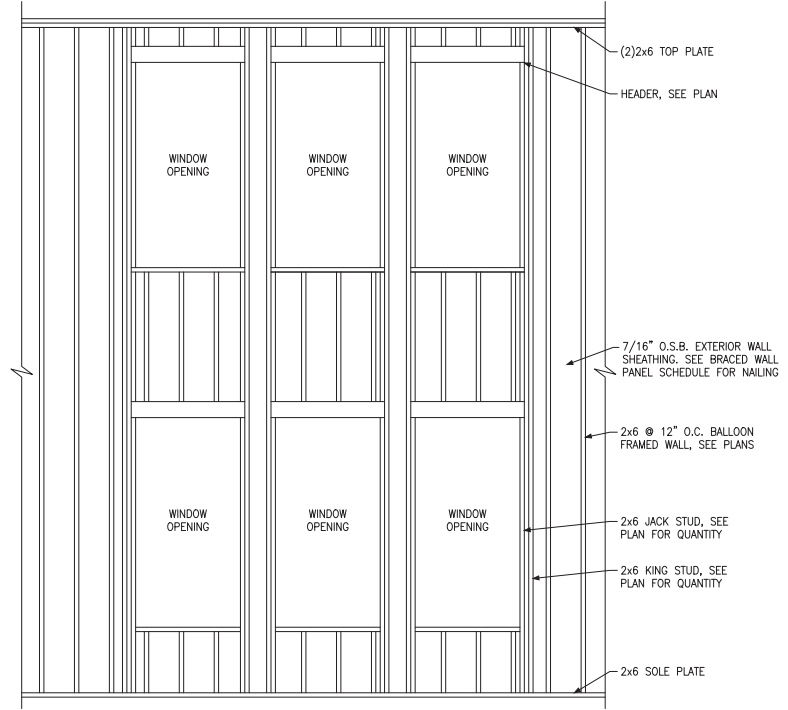
**(A) BRICK LEDGER CONNECTION DETAIL**



**(B) BEARING ENHANCER FLUSH LVL**



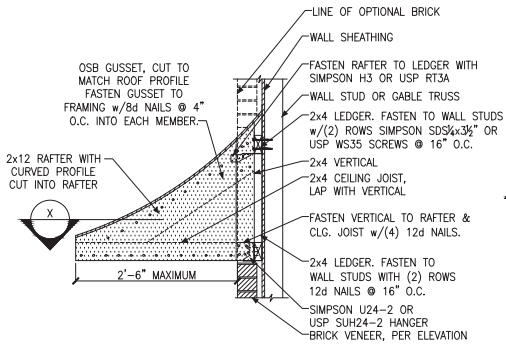
**(C) I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS**



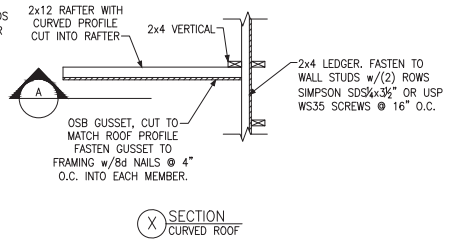
**(D) BALLOON FRAMED WALL DETAIL N.T.S.**

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"

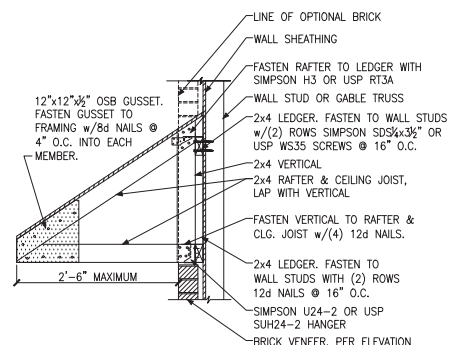




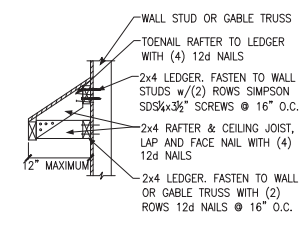
**A** PENT ROOF DETAIL  
CURVED ROOF



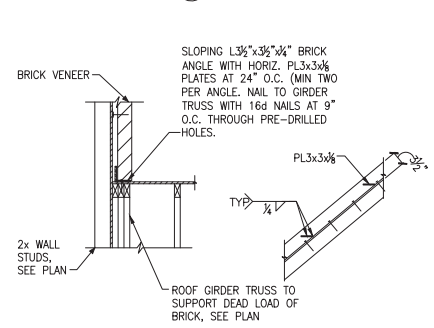
**X** SECTION  
CURVED ROOF



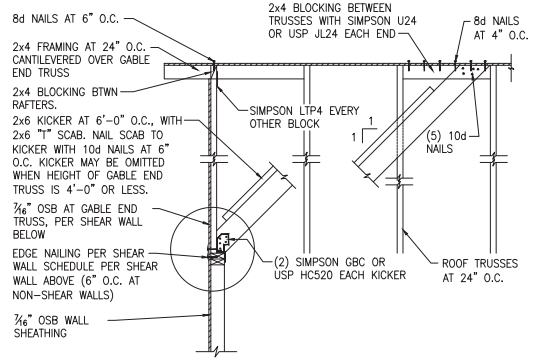
**B** PENT ROOF DETAIL  
STRAIGHT ROOF



**C** EYEBROW ROOF DETAIL  
STRAIGHT ROOF



**D** TRUSS DETAIL



**E** GABLE END WALL DETAIL



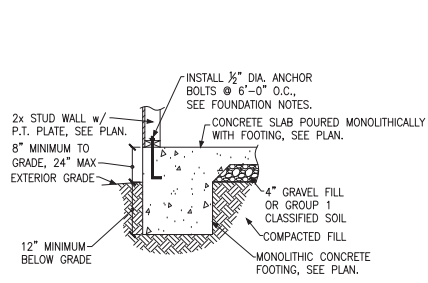
**David Weekley Homes**  
Raleigh, NC

Miscellaneous Framing Details  
Serenity, Lot #61  
B330 Ransdall Model  
115 M.P.H.  
Raleigh, North Carolina

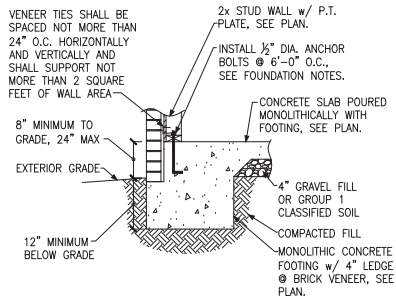
Project #: 047-20010  
Designed By: JPS  
Checked By:  
Issue Date: 6/13/22  
Re-Issue:  
Scale: 1/8"=1'-0" @ 11x17  
1/4"=1'-0" @ 22x34



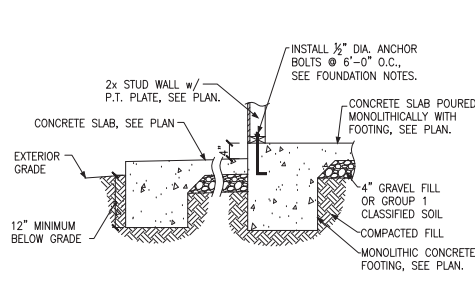




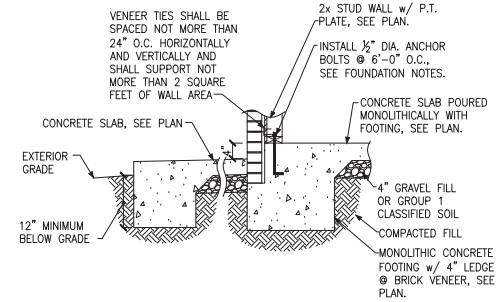
**A** FOUNDATION SECTION  
EXTERIOR WALL



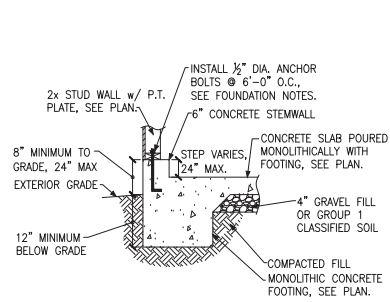
**B** FOUNDATION SECTION  
EXTERIOR WALL @ BRICK VENEER



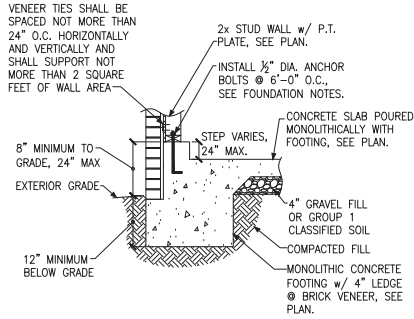
**C** FOUNDATION SECTION  
EXTERIOR WALL AT PORCH



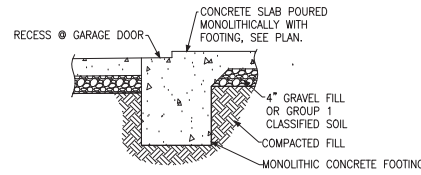
**D** FOUNDATION SECTION  
EXTERIOR WALL AT PORCH w/ BRICK VENEER



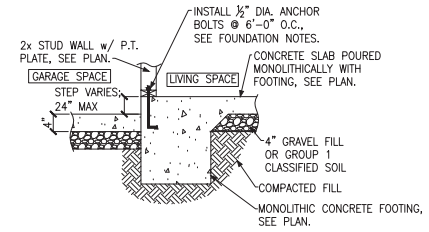
**E** FOUNDATION SECTION  
EXTERIOR GARAGE WALL



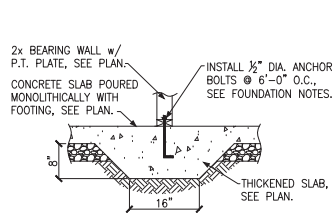
**F** FOUNDATION SECTION  
EXTERIOR GARAGE WALL @ BRICK VENEER



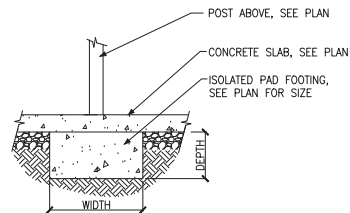
**G** GARAGE DOOR SECTION  
GARAGE DOOR



**H** THICKENED SLAB  
AT GARAGE



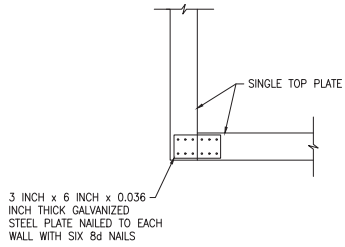
**J** THICKENED SLAB SECTION  
INTERIOR BEARING WALL



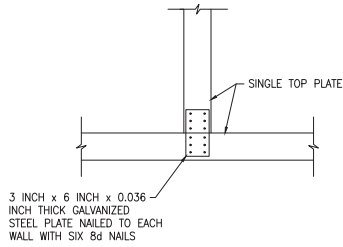
**K** ISOLATED PAD FOOTING  
INTERIOR COLUMN



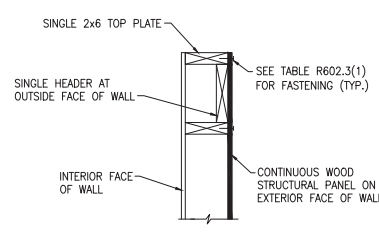




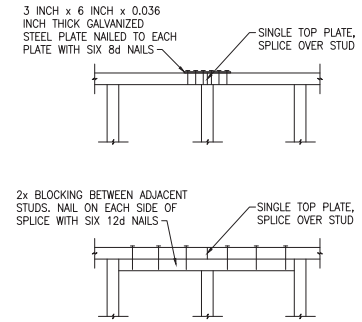
**A** SINGLE TOP PLATE SPLICE WALL INTERSECTION



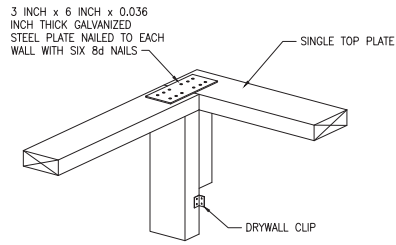
**B** SINGLE TOP PLATE SPLICE WALL INTERSECTION



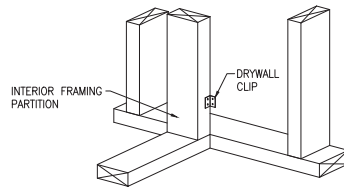
**C** SINGLE LOAD BEARING HEADER EXTERIOR WALL



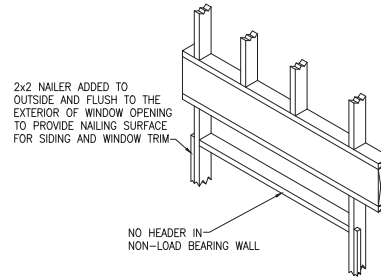
**D** SINGLE TOP PLATE SPLICE INTERIOR OR EXTERIOR WALL



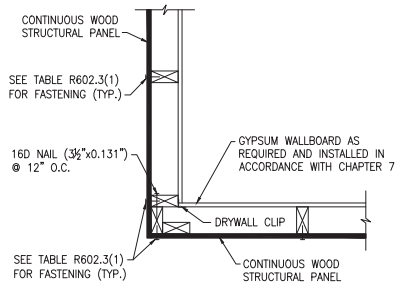
**E** SINGLE TOP PLATE SPLICE WALL INTERSECTION



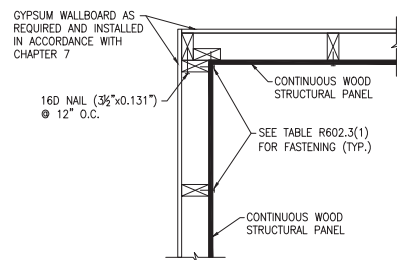
**F** SINGLE TOP PLATE SPLICE WALL INTERSECTION



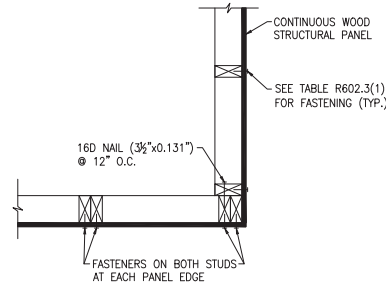
**G** NON-LOAD BEARING HEADER EXTERIOR WALL



**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.

