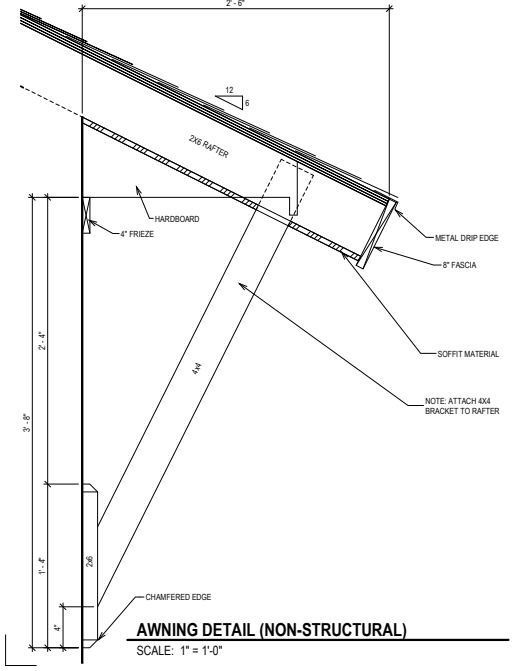


BRACKET DETAIL
 SCALE: 1" = 1'-0"

CORNICE DTL.
 SCALE: 1" = 1'-0"

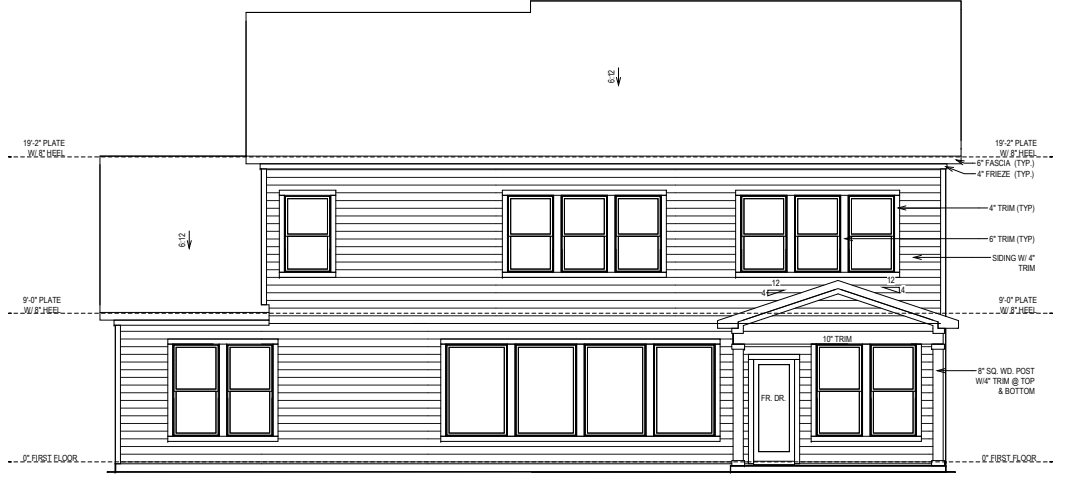


AWNING DETAIL (NON-STRUCTURAL)
 SCALE: 1" = 1'-0"

PROVIDE HANDRAIL
 WHEN REQUIRED BY
 CODE



FRONT ELEVATION "A" FARMHOUSE



REAR ELEVATION

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David Weekly Homes
 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 SERENITY DR
 FUQUAY-VARINA, NC

NORTH B330-A ELV-1
 RANSALL RALEIGH

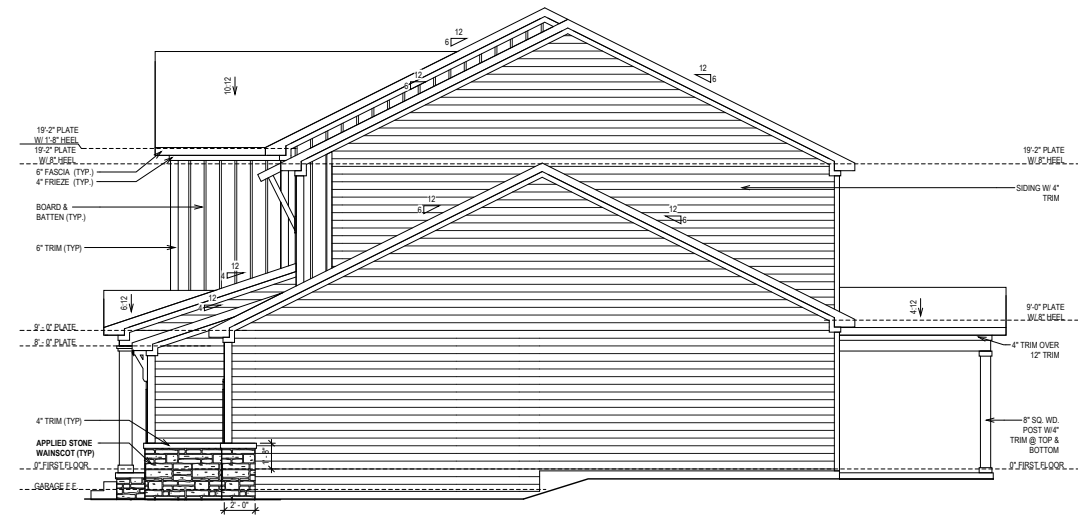
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David Weekley Homes
 Scale: 1/8"=1'-0"
 Rev: 12/16/21 EB
 Date: 10/02/2020

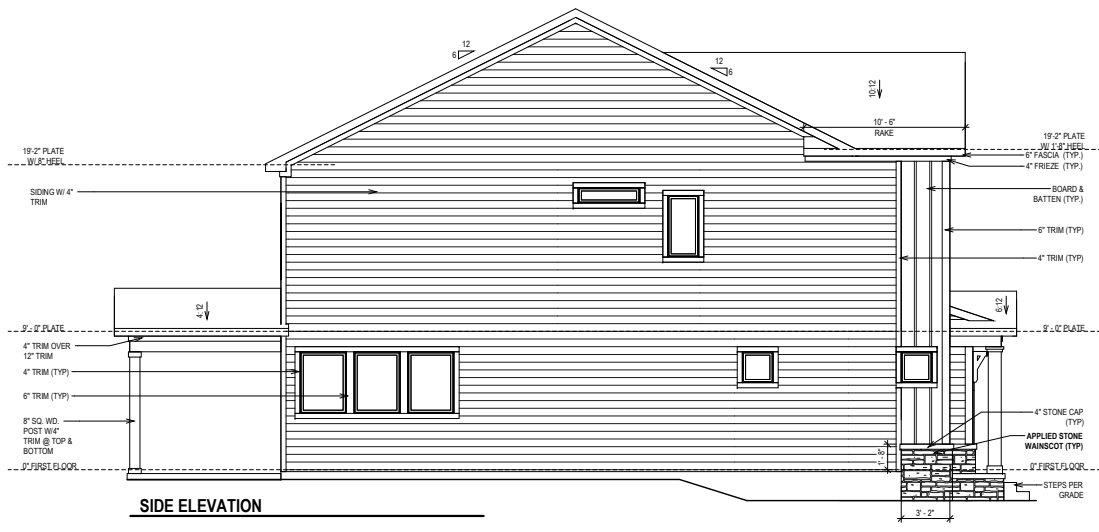
Proj. No.: 61
 Lot: 3277
 Block: 0061
 Sect:

SERENITY 65
 34 SERENIDIPITY DR
 FUYQUAY-VARINA, NC

NORTH
B330-A
ELV-2
 RANSDALL
 RALEIGH



SIDE ELEVATION



SIDE ELEVATION

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

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_b=2,325 PSI, F_v=310 PSI, F_c=900 PSI
- LVL: E=2,000,000 PSI, F_b=2,600 PSI, F_v=285 PSI, F_c=750 PSI
- PSL: E=2,100,000 PSI, F_b=2,900 PSI, F_v=290 PSI, F_c=625 PSI



**KSE
ENGINEERING**

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www.kse-eng.com (215) 804-4449

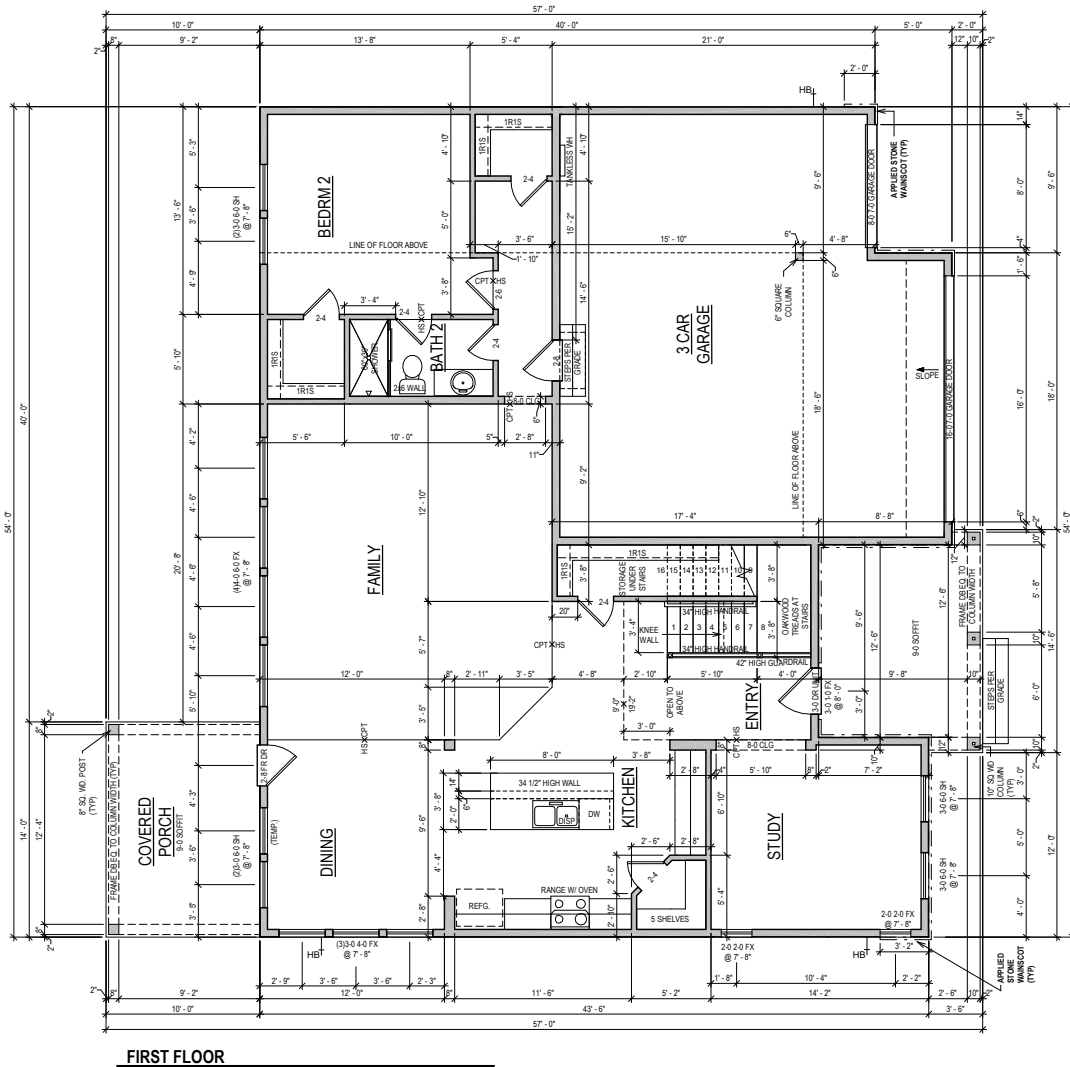
David Weekley Homes
Raleigh, NC

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" @ 22x34



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	
LIVING	
1ST FLOOR	1584 SF
2ND FLOOR	1612 SF
TOTAL LIVING	3196 SF
SLAB	
1ST FLOOR	1584 SF
COVERED PORCH	140 SF
FRONT PORCH	130 SF
CARAVAN	671 SF
TOTAL SLAB	2534 SF
FRAMING	
1ST FLOOR	1584 SF
2ND FLOOR	1540 SF
COVERED PORCH	140 SF
FRONT PORCH	130 SF
CARAVAN	671 SF
TOTAL FRAMING	4074 SF

OPTION LIST

BASELINE @ EXTERIOR FIRST FLOOR
 24 DOOR @ BATH 2
 TRAY @ OWNER'S RETREAT
 SUPER SHOWER @ BATH 2
 COVERED PORCH
 SHOWER @ BATH 2
 OAK INDOOR SAT STAIRS

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

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

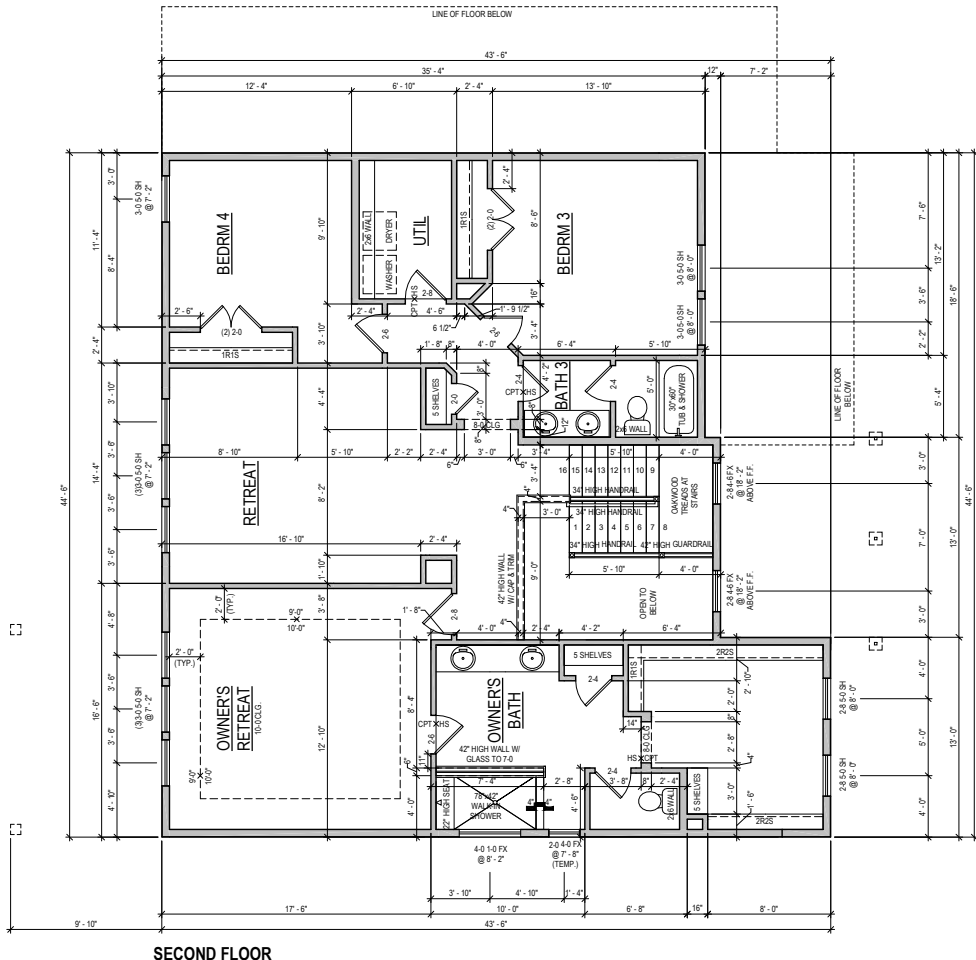
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David Weekley Homes
 CN/AF/SG Scale: 1/8"=1'-0"
 Date: 10/02/2020 Rev: 12/16/21 EB

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

SERENITY 65
 34 SERENDIPITY DR
 FUYQUAY-VARINA, NC

NORTH
B330-A
PLN-1
 RANDALL
 RALEIGH



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

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

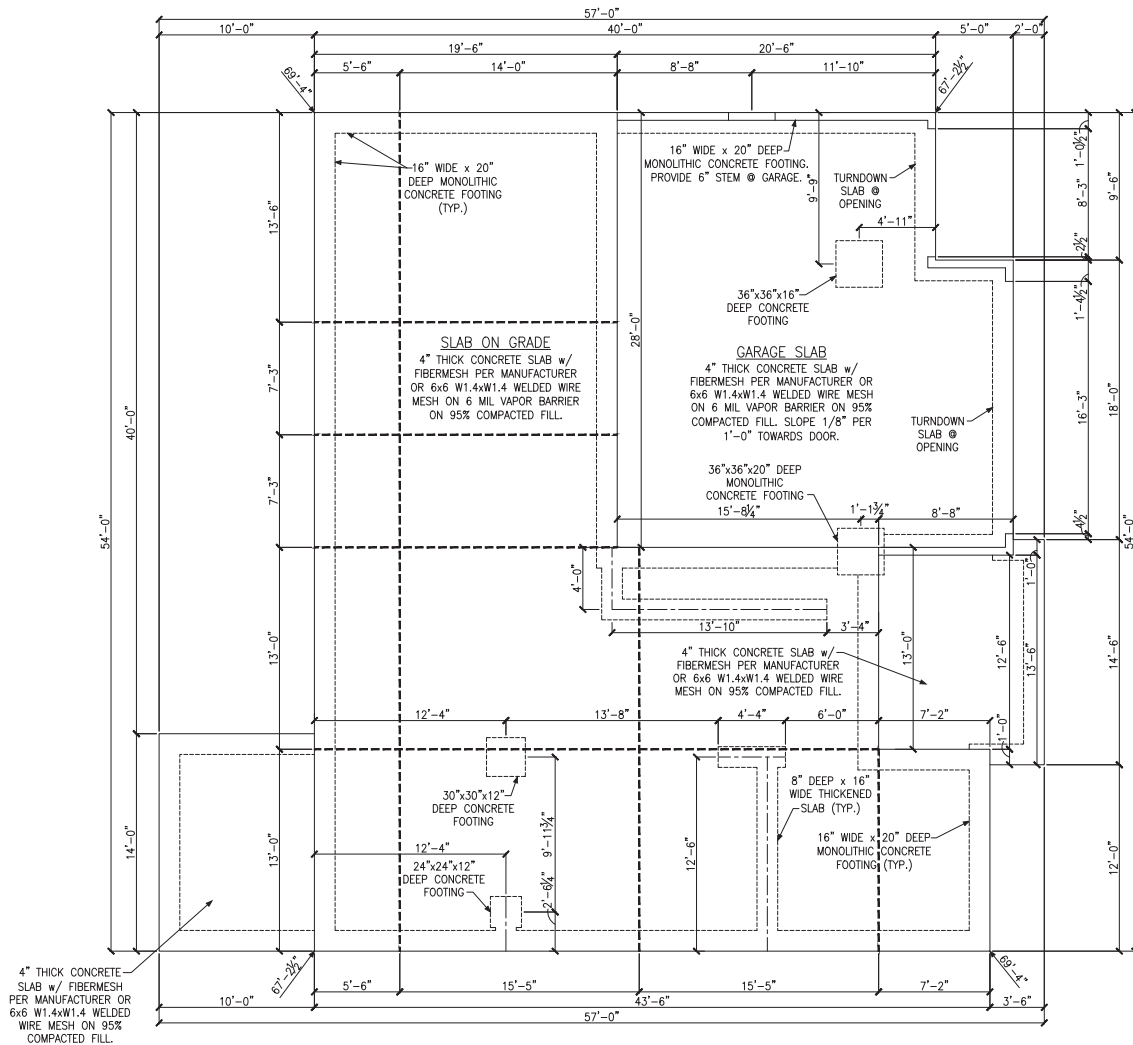
SERENITY 65⁺
34 SERENDIPITY DR
FUQUAY-VARINA, NC

NORTH
B330-A
PLN-2
RANSBALL
RALEIGH

Proj. No.:
3277
Job No.:
0061

David Weekley Homes
CN/AF/SG Scale: 1/8"=1'-0"
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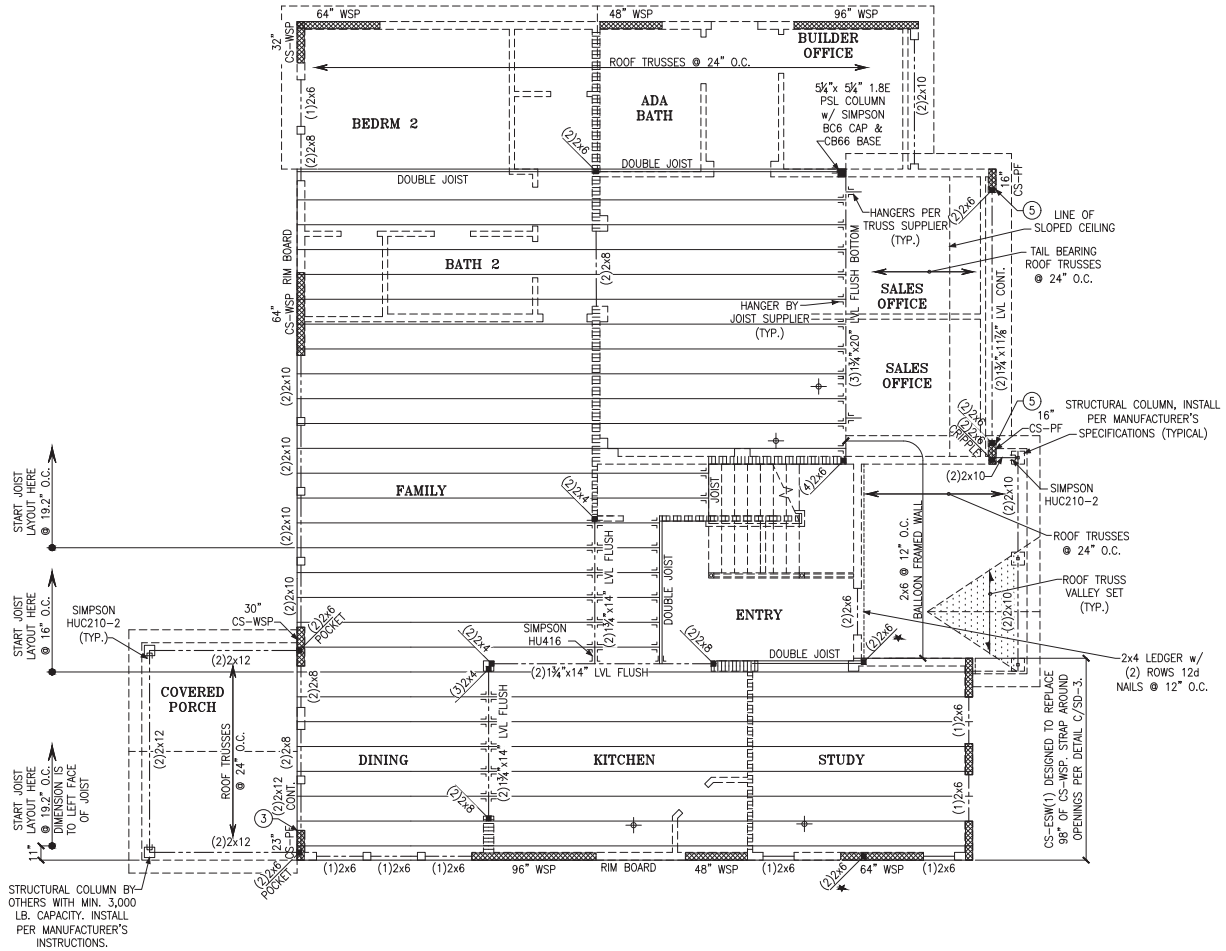
MONOLITHIC SLAB FOUNDATION PLAN

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





SECOND FLOOR 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)

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

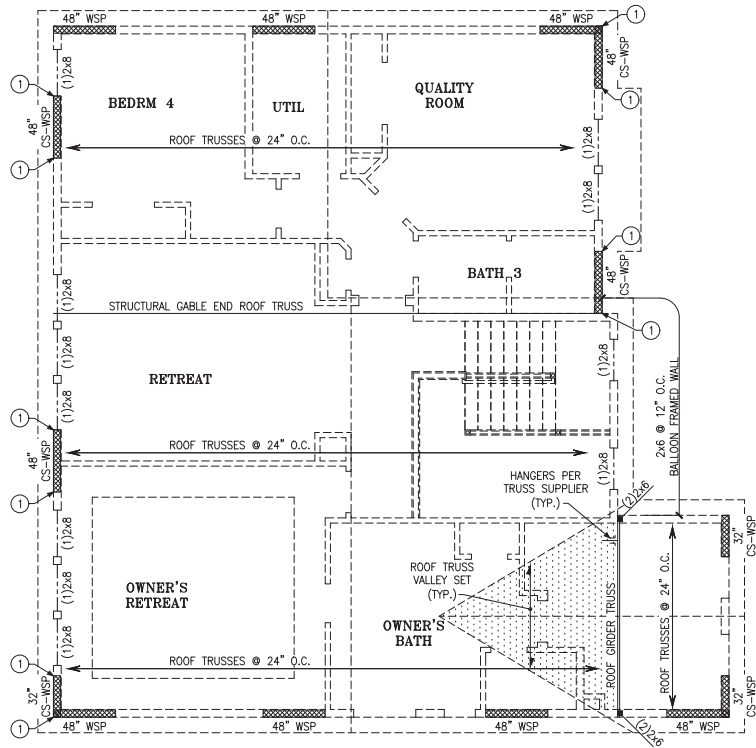
PLAN DESIGNED WITH 9' NOMINAL WALL PLATE HEIGHT

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

KEYNOTES:

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

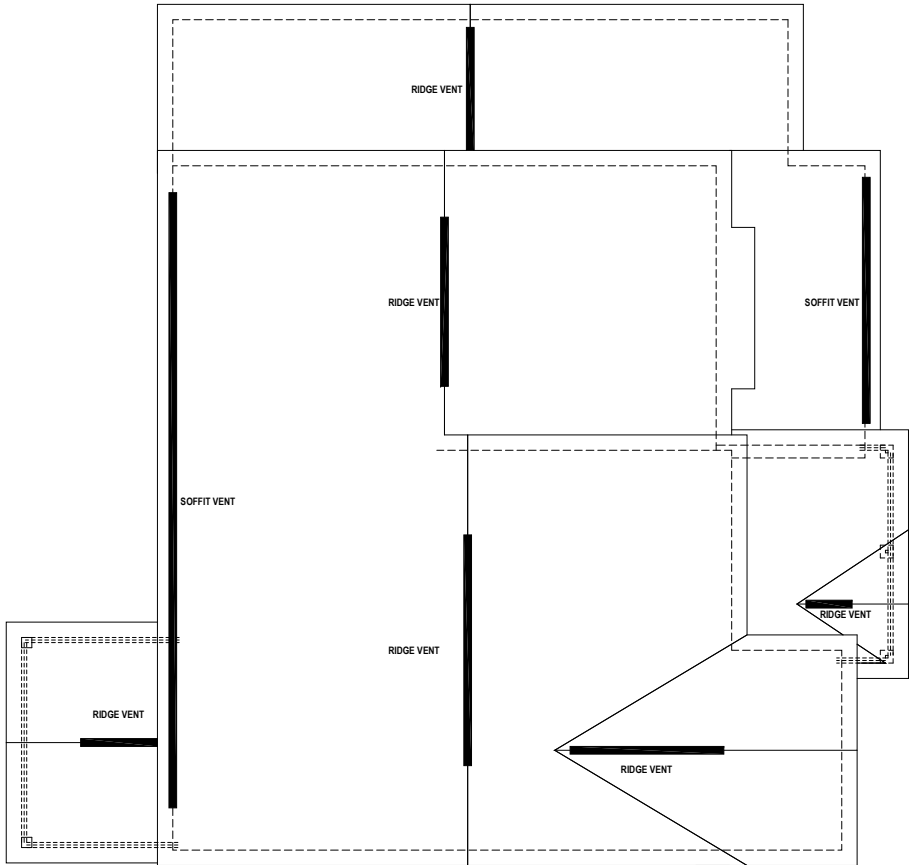




ROOF FRAMING PLAN

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	
KEYNOTES:	
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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 Scale: 1/8"=1'-0"
 Rev: 12/16/21 EB

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

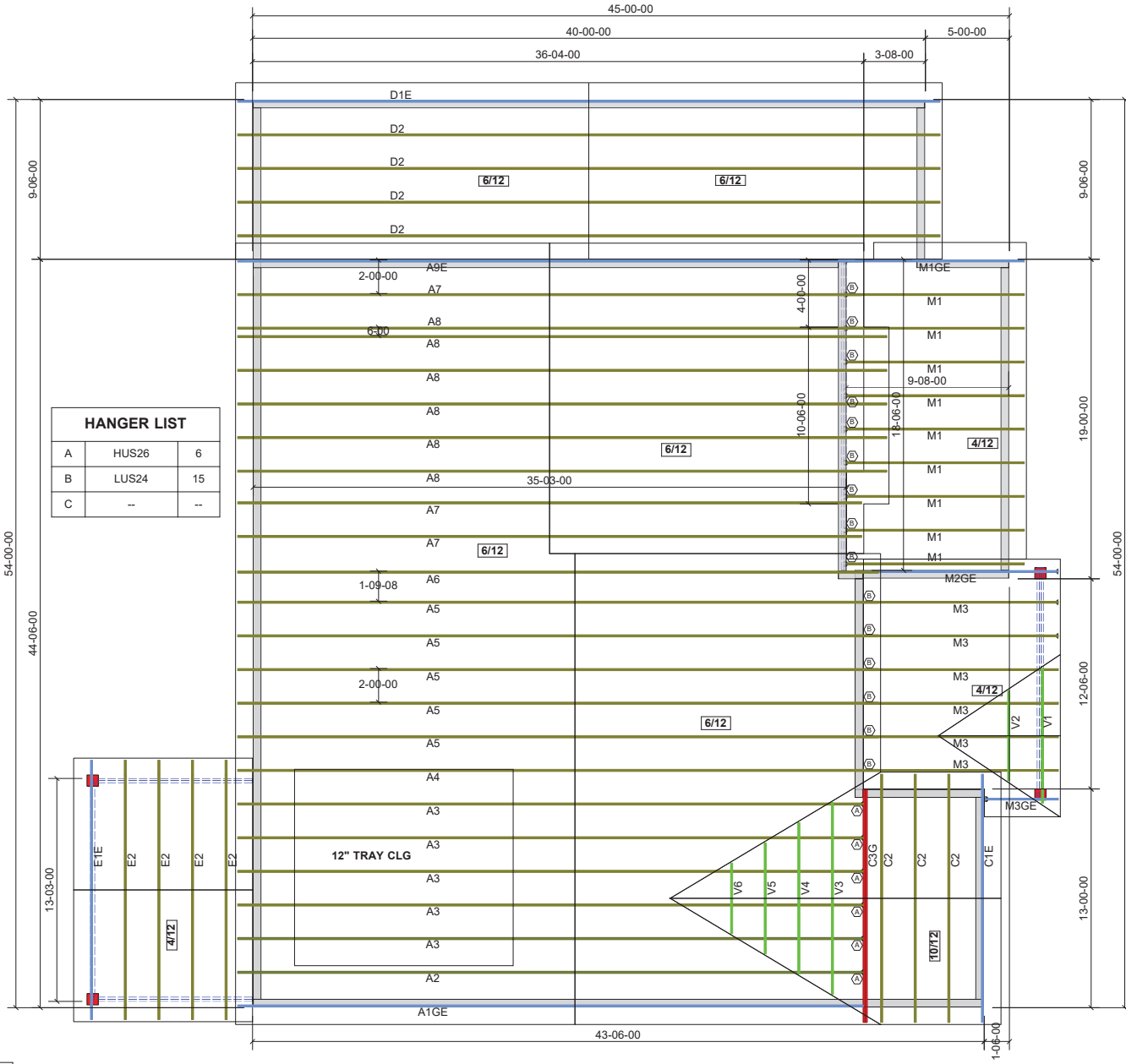
SERENITY 65'
 34 SERENDIPITY DR
 FUYQUAY-VARINA, NC

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

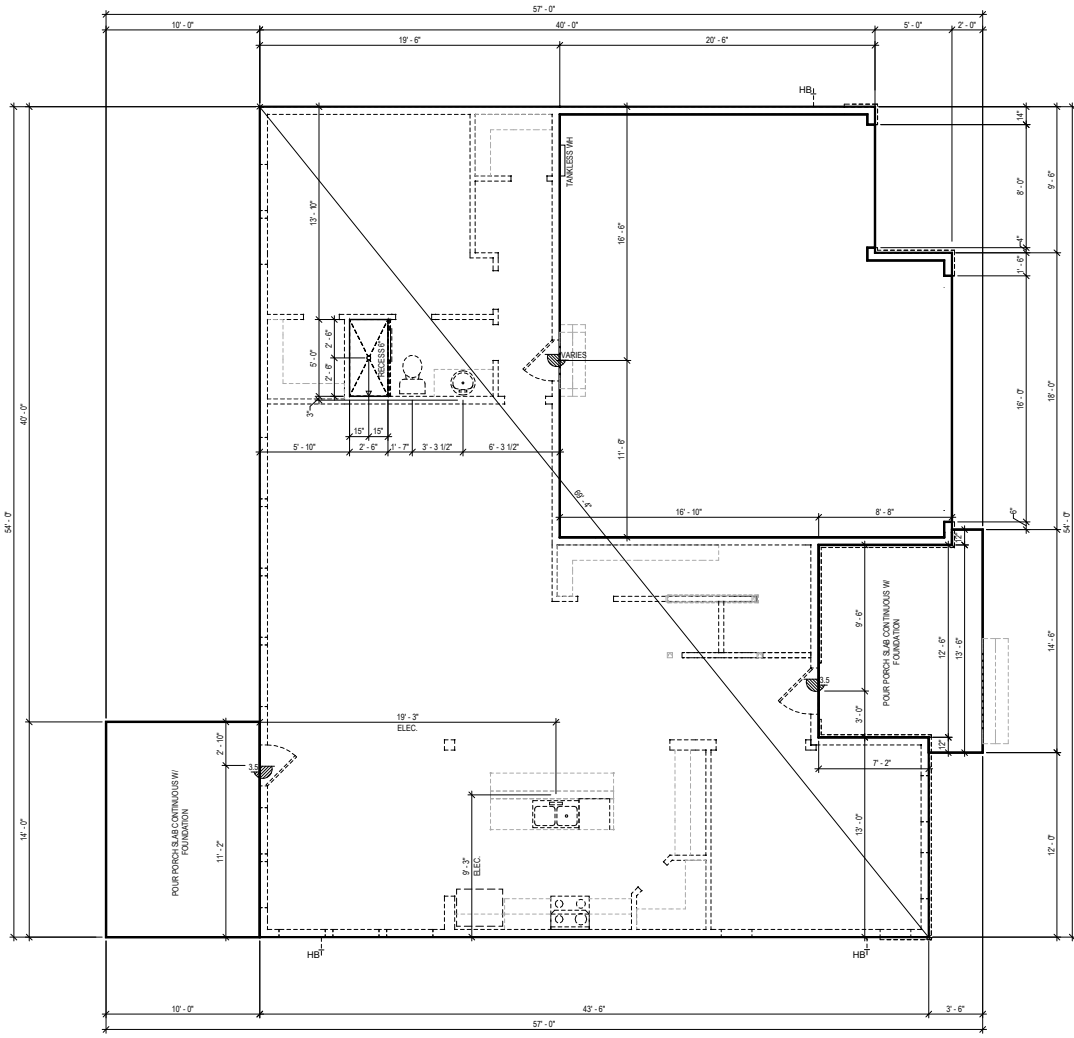
CUSTOMER: DAVID WEEKLY

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/ft²
 TOP DEAD LOAD: 10.0 lb/ft²
 BOTTOM DEAD LOAD: 10.0 lb/ft²
 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 AND APPROVED BY THE STRUCTURAL ENGINEER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.



FIRST FLOOR

SEE ENGINEERING FOR ANCHOR BOLT REQUIREMENTS

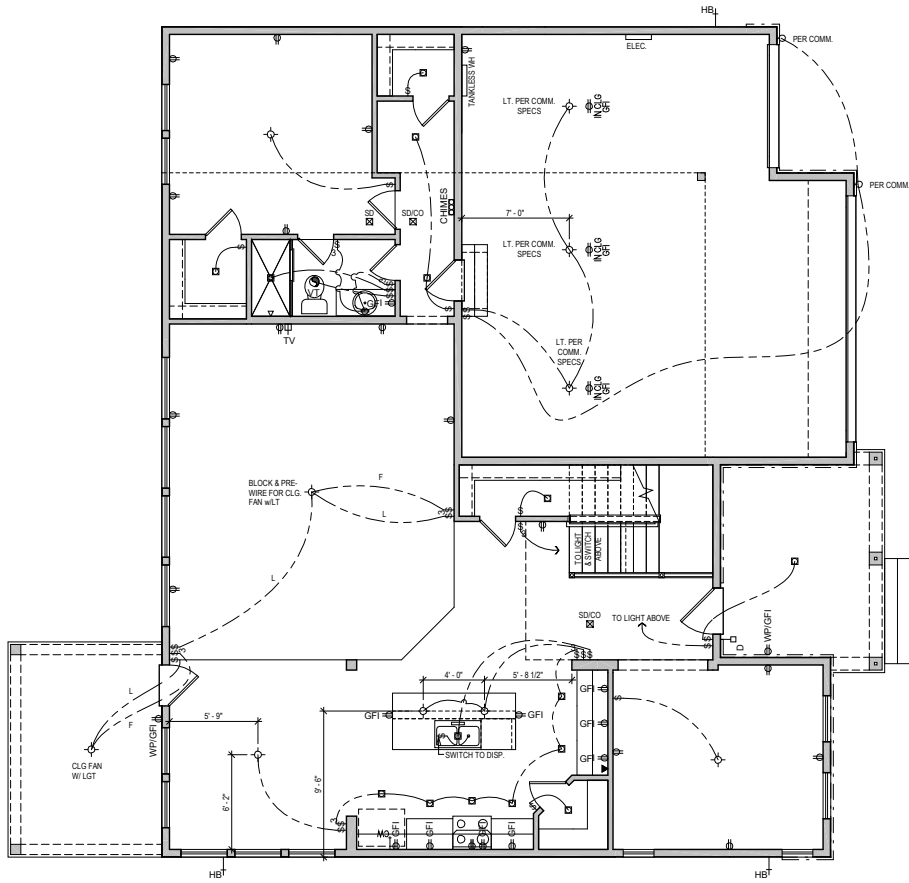
NORTH
B330-A
FS-1
 RANSBALL
 RALEIGH

SERENITY 65
 34 SERENDIPITY DR
 FUQUAY-VARINA, NC

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

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

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FIRST FLOOR

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

CITY SPECIFIC
VIAL 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 (3Φ 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.

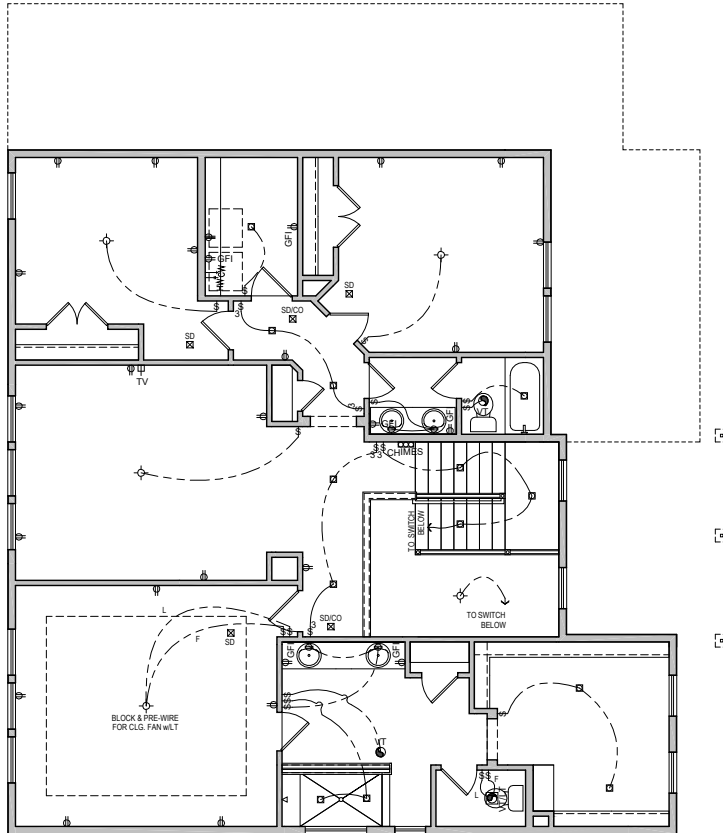
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CN/AFISG Date: 10/02/2020 Scale: 1/8"=1'-0" Rev: 12/16/21 EB

61
Proj. No.: 3277
Lot: SERENITY 65
Job No.: 0061
Block: 34 SERENDIPITY DR
Sect: FUQUAY-VARINA, NC

NORTH
B330-A
ELE-1
RANDALL
RALEIGH

SECOND FLOOR



UTILITY LEGEND	
⊕	110V OUTLET 12" A.F.F. (U.N.G.)
⊕	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.

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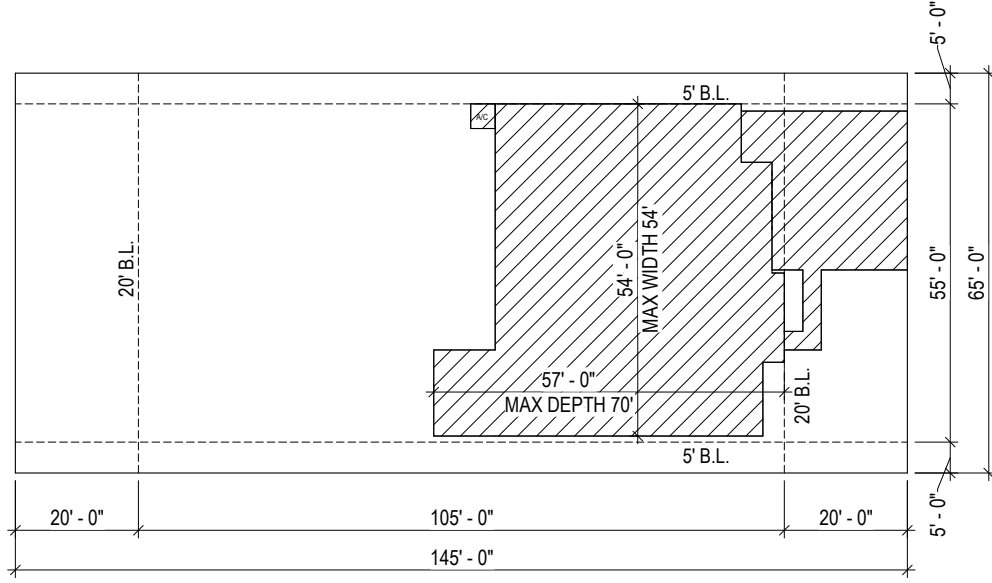
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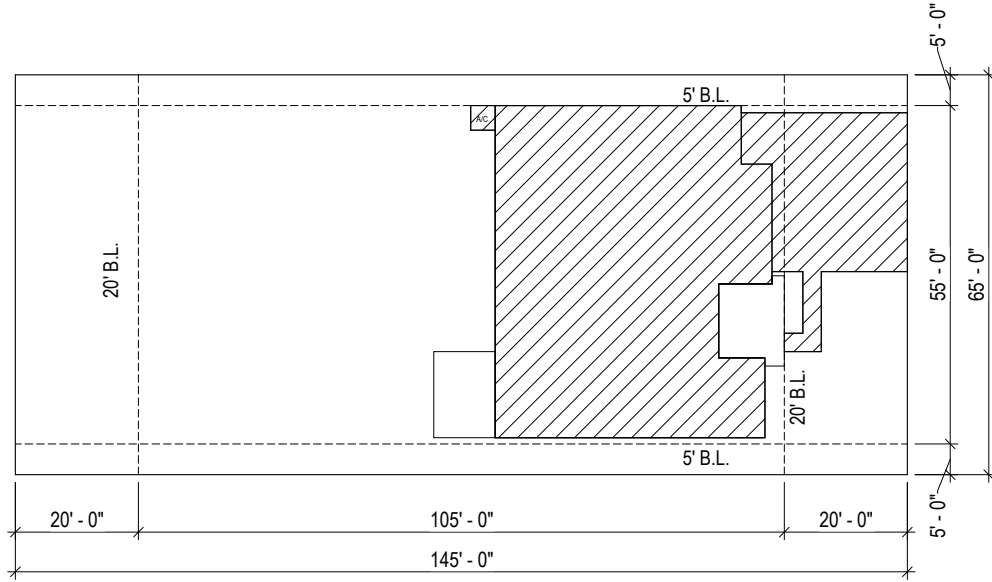
SERENITY 65'
34 SERENDIPITY DR
FUQUAY-VARINA, NC

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

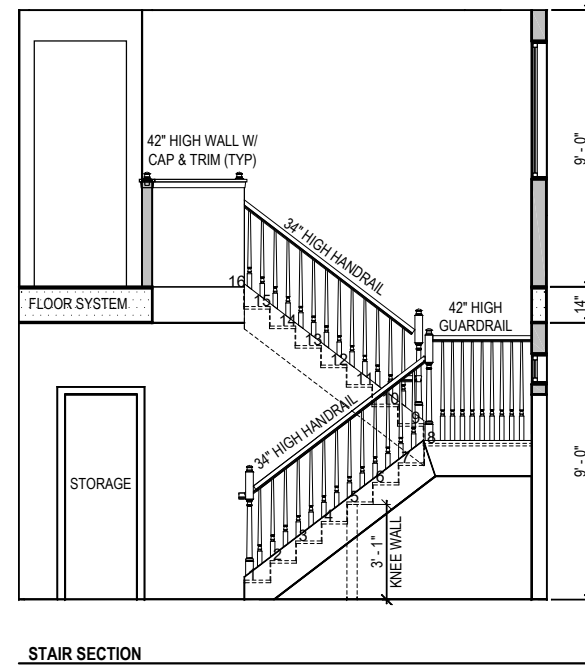
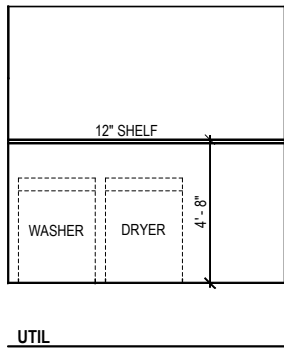
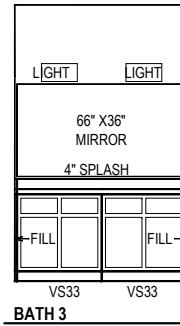
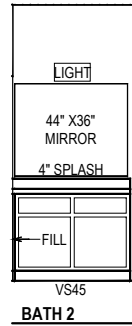
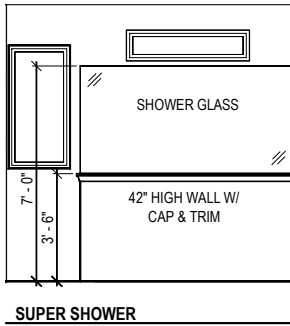
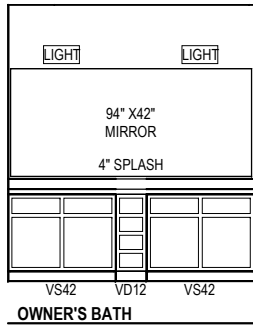
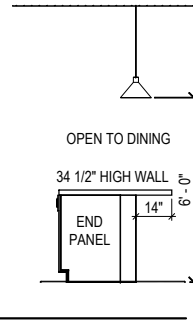
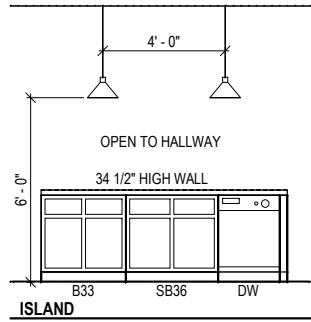
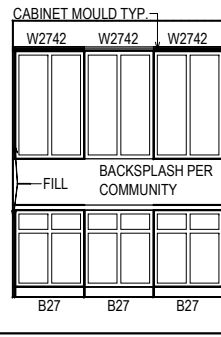
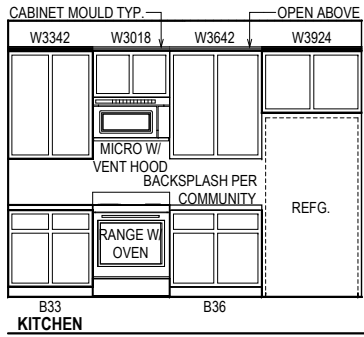
© Weekley Homes, L.P., 2021
 The measurements, dimensions, and other specifications shown on this document are guidelines for construction use only. This document is to be used as a representation of what the completed structure will look like.

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



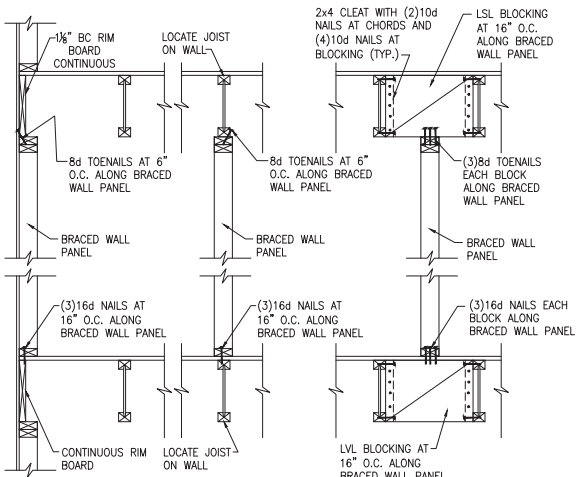
© Weekley Homes, L.P. 2021
 The measurements, dimensions, and other specifications shown on this document are guidelines for construction use only. This document may not be relied on as a representation of what the completed structure will look like.

David Weekley Homes
 CN/AF/SG Date: 08/11/2021 Scale: 1/4"=1'-0" Rev: 12/16/21 EB

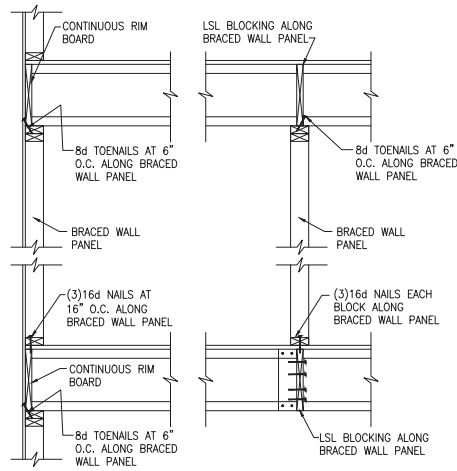
Proj. No.: 61
 Lot: 3277
 Block: 0061
 Sect:

SERENITY 65
34 SERENIDIPITY DR
FUQUAY-VARINA, NC

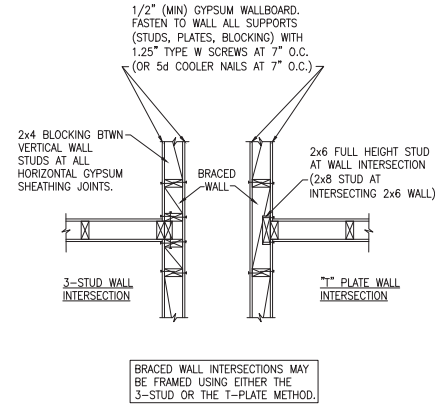
NORTH
B330-A
INT-1
 RANS DALL
 RALEIGH



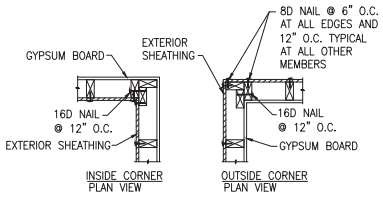
A TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION
BRACED WALL PANELS PARALLEL TO I-JOISTS



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

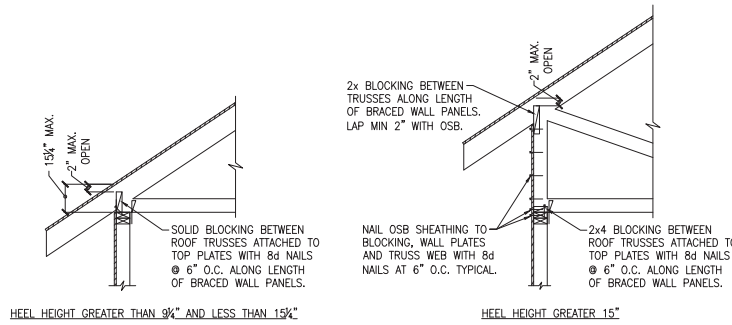


C METHOD GB(1) AND GB(2) INTERSECTION DETAILS



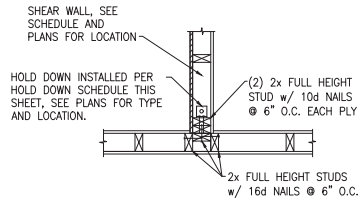
D TYPICAL EXTERIOR CORNER WALL FRAMING

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.

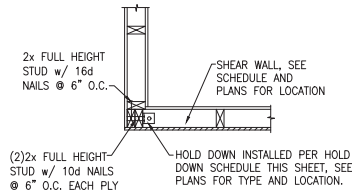


E ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS
ONLY REQUIRED AT BRACED WALL PANELS

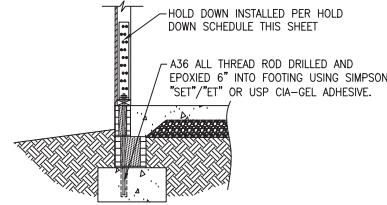




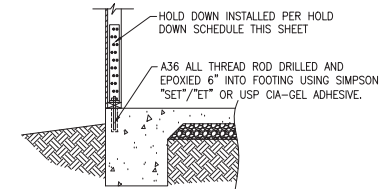
(A) TYPICAL HOLD DOWN DETAIL



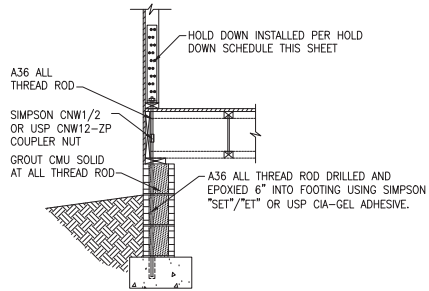
(B) TYPICAL HOLD DOWN DETAIL



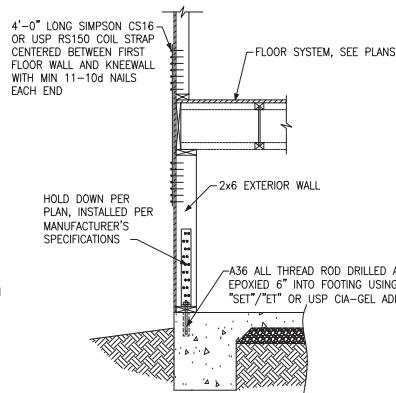
(C) HOLD DOWN AT STEMWALL SLAB



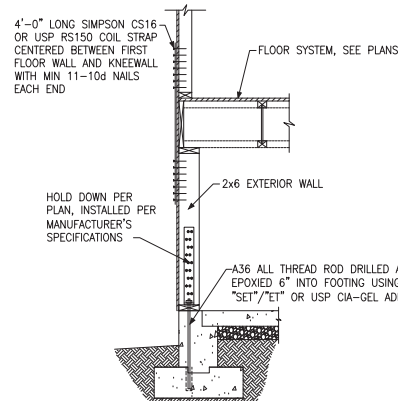
(D) HOLD DOWN AT MONOLITHIC SLAB



(E) HOLD DOWN AT CRAWL FOUNDATION



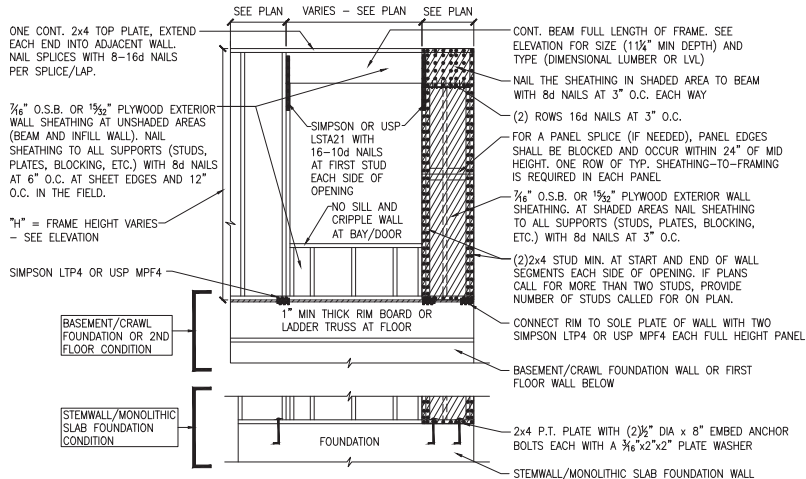
(F) HOLD DOWN AT FOUNDATION MONOLITHIC TURN-DOWN



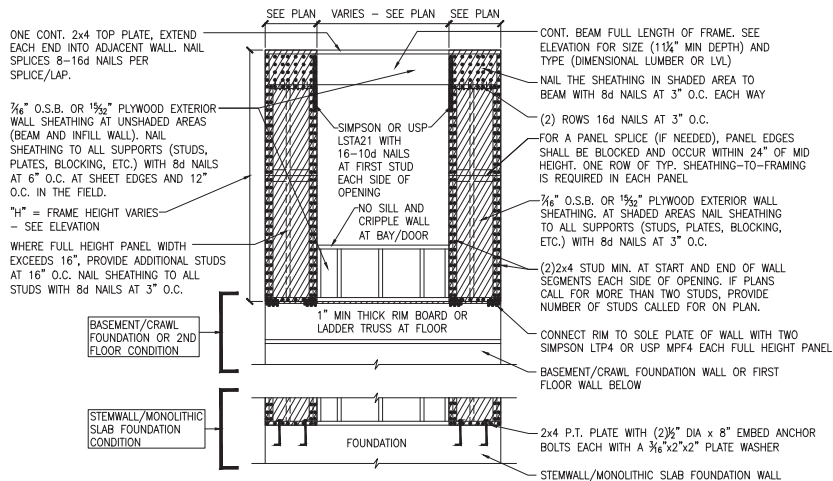
(G) HOLD DOWN AT FOUNDATION STEM WALL

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

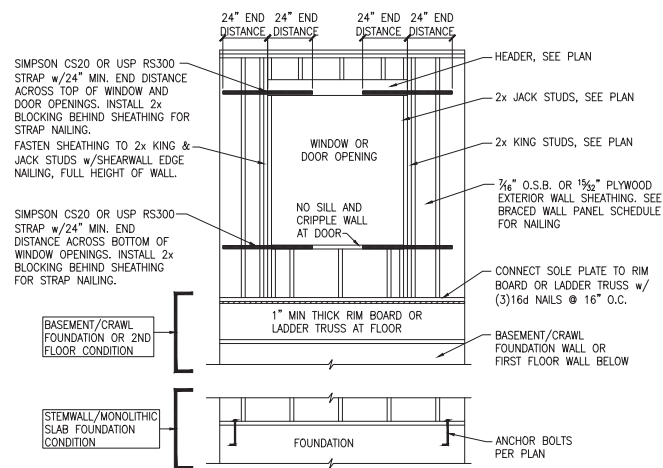




A METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
ONE BRACED WALL SEGMENT



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



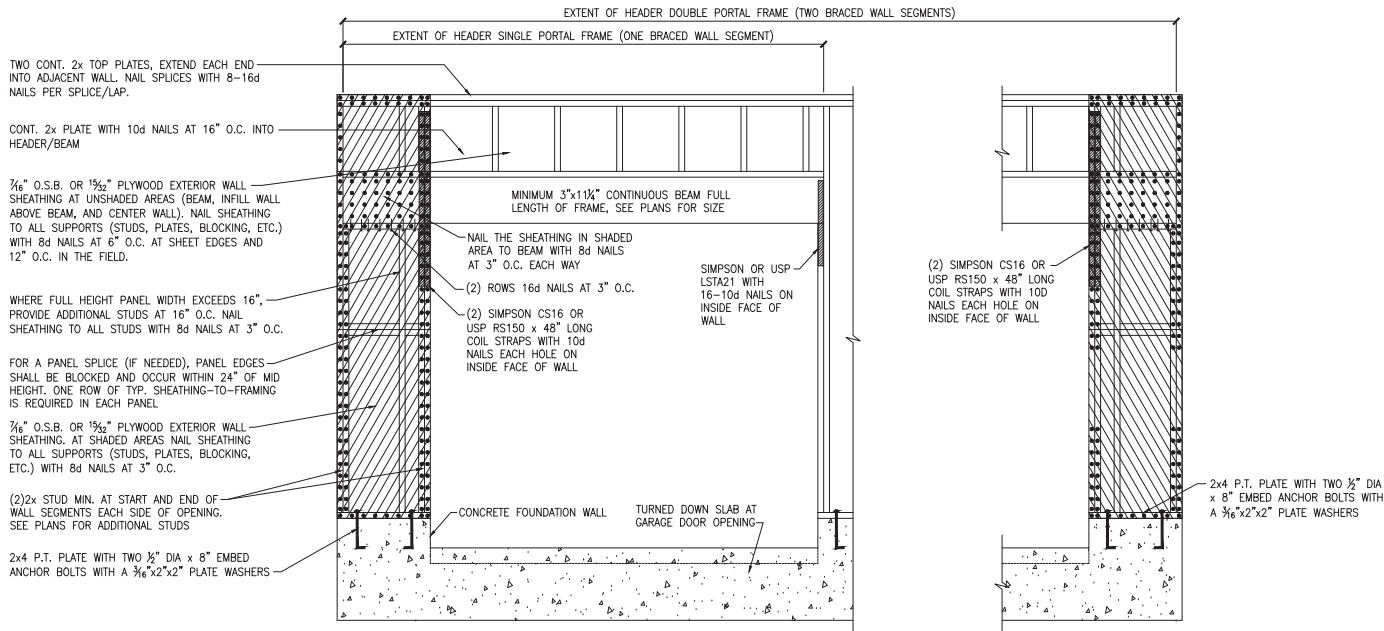
C WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL
ONLY REQUIRED WHERE SPECIFIED ON PLANS

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

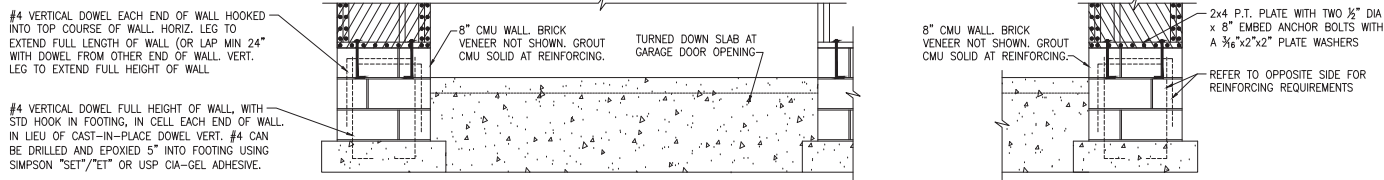
BRACED WALL PANEL NOTES:

- 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 1/2" 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.

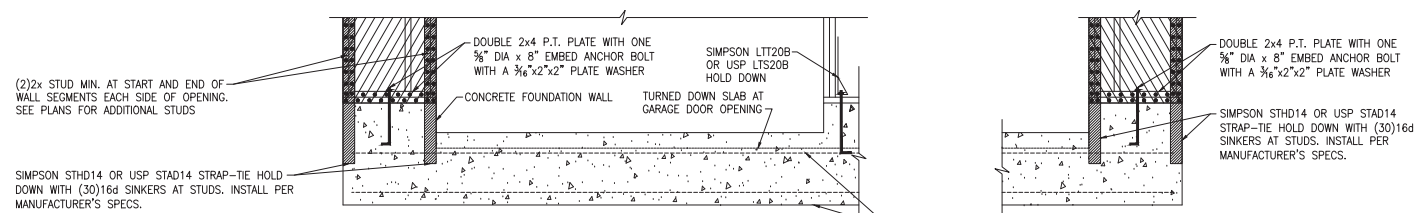




(A) METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
MONOLITHIC SLAB OR BASEMENT FOUNDATION



(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

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

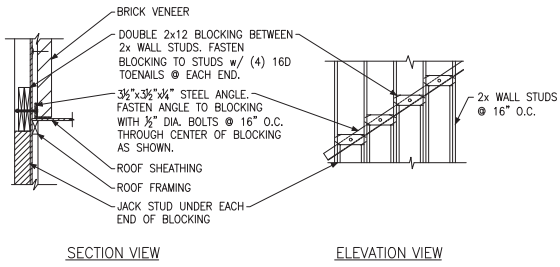
SIMPSON LTT20B OR USP LTS20B HOLD DOWN

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

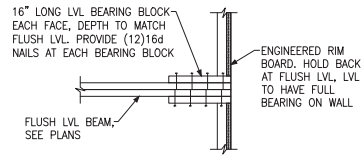
SIMPSON STD14 OR USP STAD14 STRAP-TIE HOLD DOWN WITH (30)16d SINKERS AT STUDS. INSTALL PER MANUFACTURER'S SPECS.

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

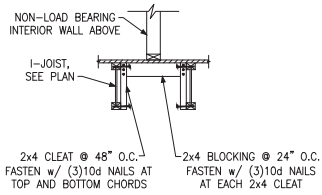




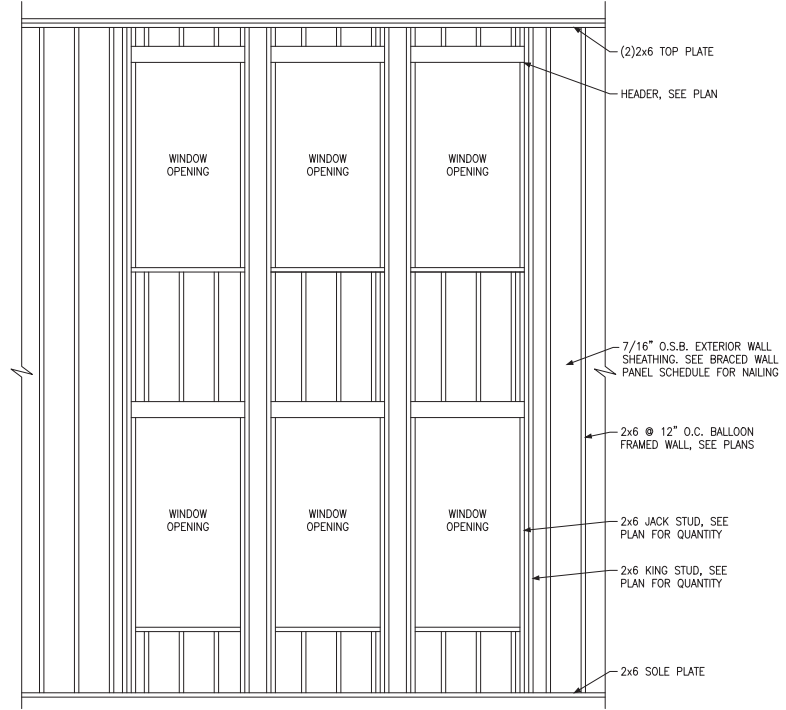
(A) BRICK LEDGER CONNECTION DETAIL



(B) BEARING ENHANCER FLUSH LVL



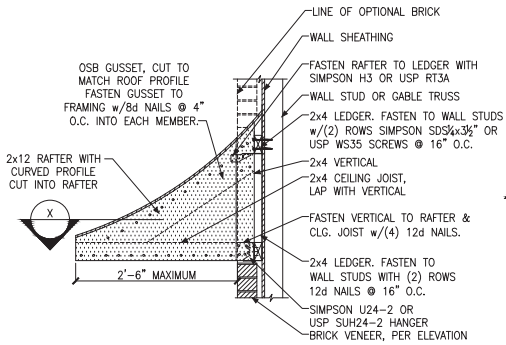
(C) I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS



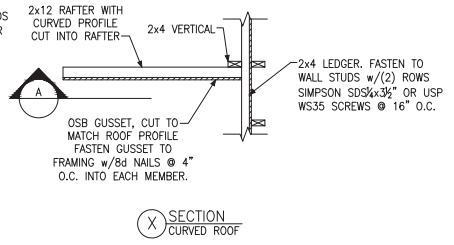
(D) BALLOON FRAMED WALL DETAIL N.T.S.

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"

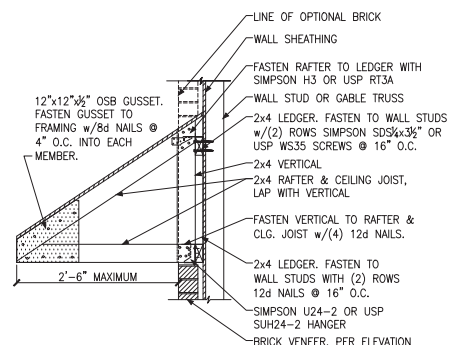




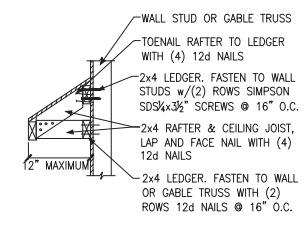
A PENT ROOF DETAIL
CURVED ROOF



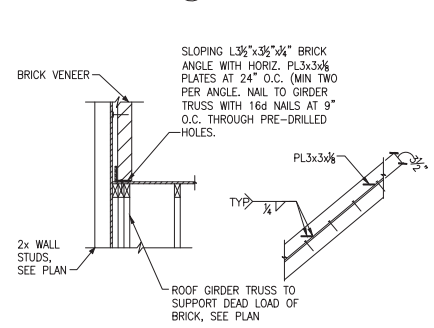
X SECTION
CURVED ROOF



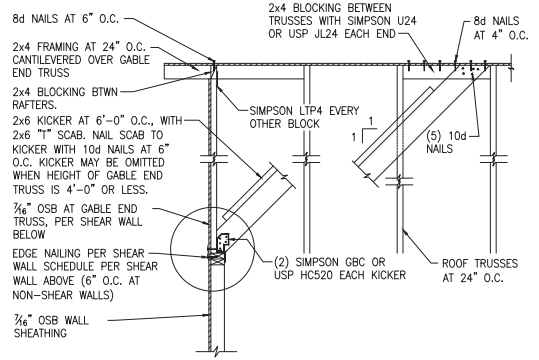
B PENT ROOF DETAIL
STRAIGHT ROOF



C EYEBROW ROOF DETAIL
STRAIGHT ROOF



D TRUSS DETAIL



E GABLE END WALL DETAIL

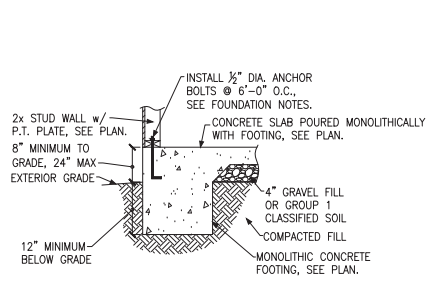


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Raleigh, NC

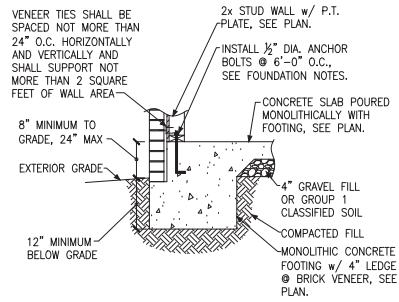
Miscellaneous Framing Details
Serenity, Lot #61
B330 Ransdall Model
115 M.P.H.
Raleigh, North Carolina

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

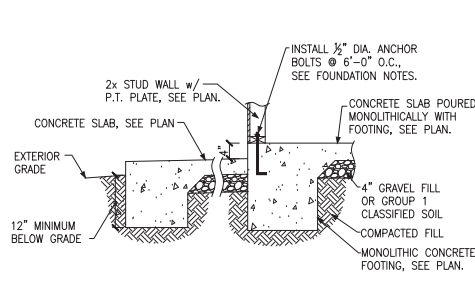




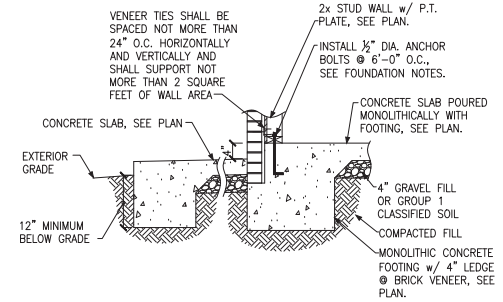
A FOUNDATION SECTION
EXTERIOR WALL



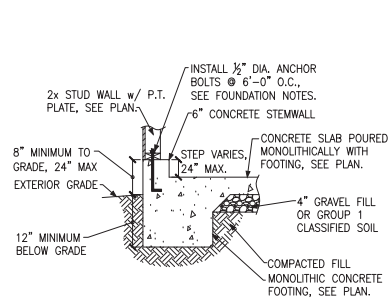
B FOUNDATION SECTION
EXTERIOR WALL @ BRICK VENEER



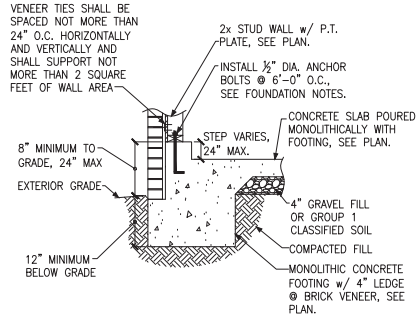
C FOUNDATION SECTION
EXTERIOR WALL AT PORCH



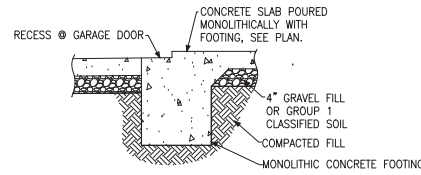
D FOUNDATION SECTION
EXTERIOR WALL AT PORCH w/ BRICK VENEER



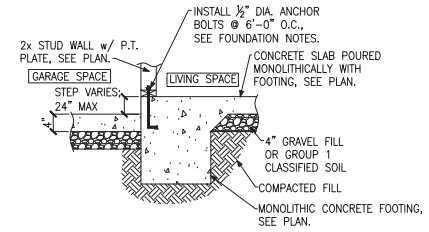
E FOUNDATION SECTION
EXTERIOR GARAGE WALL



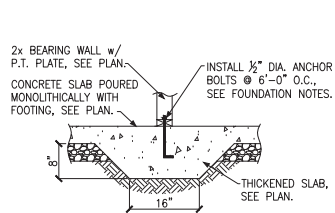
F FOUNDATION SECTION
EXTERIOR GARAGE WALL @ BRICK VENEER



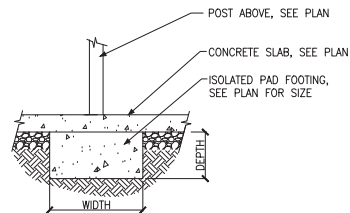
G GARAGE DOOR SECTION
GARAGE DOOR



H THICKENED SLAB
AT GARAGE

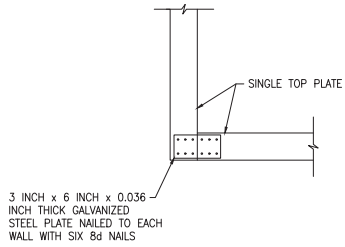


J THICKENED SLAB SECTION
INTERIOR BEARING WALL

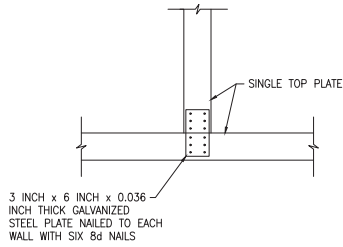


K ISOLATED PAD FOOTING
INTERIOR COLUMN

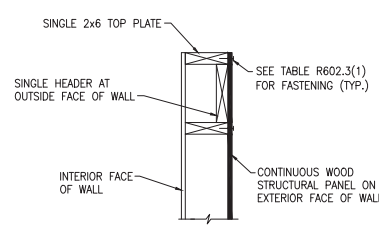




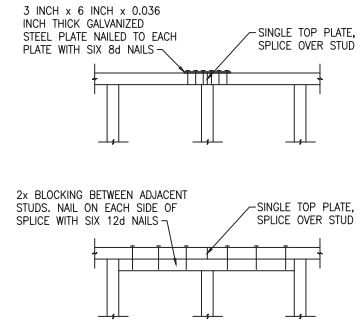
A SINGLE TOP PLATE SPLICE WALL INTERSECTION



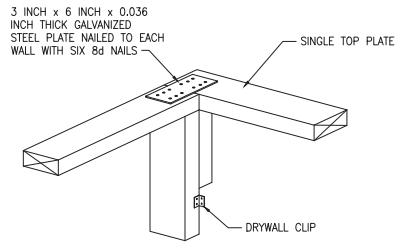
B SINGLE TOP PLATE SPLICE WALL INTERSECTION



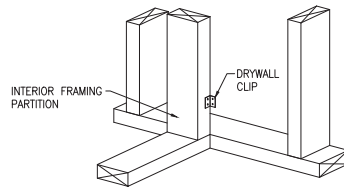
C SINGLE LOAD BEARING HEADER EXTERIOR WALL



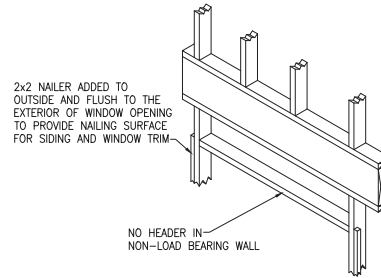
D SINGLE TOP PLATE SPLICE INTERIOR OR EXTERIOR WALL



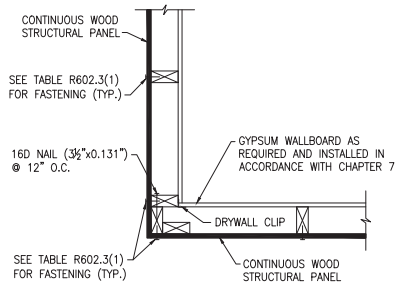
E SINGLE TOP PLATE SPLICE WALL INTERSECTION



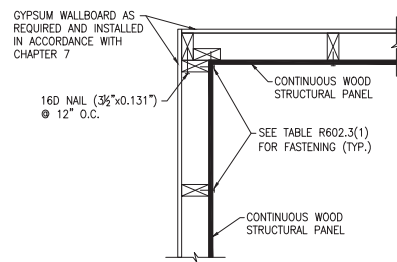
F SINGLE TOP PLATE SPLICE WALL INTERSECTION



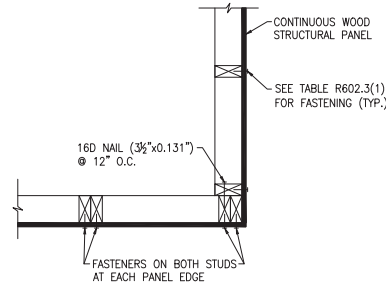
G NON-LOAD BEARING HEADER EXTERIOR WALL



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.

