



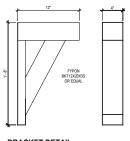
FRONT ELEVATION "B"

REAR ELEVATION "B"

6:12 18'-4" PLATE ____WUSTHEEL 4" FRIEZE (TYP.) __9'-0"PLATE_ ____9'_0"PLATE___ 8" FRAMED COLUMN W/ 4" TRIM @ TOP & BOTTOM



SCALE: 1" = 1'-0"



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



David Weekley Homes PT/JOE/AF/KR Date: 11/22/2024 912 Lot:

Scale:1/8"=1'-0" Rev: 8/11/25 AM

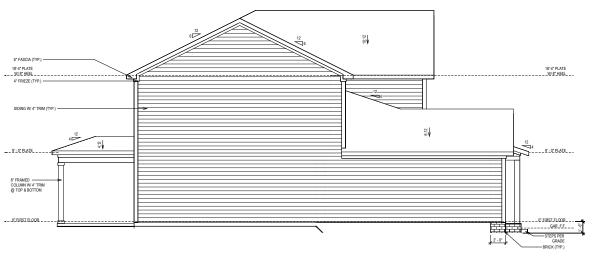
Proj. No.: 3294 Job No.: 0912

SERENITY 50' 77 RAINBROOK COVE FUQUAY VARINA, NC

SOUTH A668-B ELV-1 JASPER RALEIGH

10.12 18'-4" PLATE _______4" FRIEZE (TYP.) SIDING W/ 4" TRIM (TYP.) ___101-01:PLATE_____ 8" FRAMED COLUMN W/ 4" TRIM @ TOP & BOTTOM __OF FIRST FLOOR____ 2-0 SIDE ELEVATION "B"

SIDE ELEVATION "B"



SERENITY 50' 77 RAINBROOK COVE FUQUAY VARINA, NC
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A668-B ELV-2

JASPER RALEIGH

7	32	₹8
SERENITY 50'	77 RAINBROOK COVE	FUQUAY VARINA, NC

SERENITY 50'	<u>~</u>
77 RAINBROOK COVE	er)
FUQUAY VARINA, NC	۶č

David Weekley Homes

912

PT/JOE/AF/KR Date: 11/22/2024

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MONOLITHIC SLAB FOUNDATION PLAN

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ROOF FRAMING PLAN S-3

SD-1J BRACED WALL DETAILS SD-2J HOLD DOWN DETAILS

SD-3 BRACED WALL NOTES & DETAILS

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SD-7 MONOLITHIC SLAB FOUNDATION DETAILS

SD-8 NOT USED NOT USED SD-9 SD-10 NOT USED

NOT USED SD-11

SD-12 ADVANCED FRAMING DETAILS & NOTES



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

A668 JASPER

SERENITY, LOT #912

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 RECORDING LENGINEER OF RECORD (SER), SHOULD ANY DISORPEANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KSE ENGINEERING, P.E. SEFORE CONSTRUCTION BEGINST, IT IS THE HINTE 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 CONTRAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE TO RANT PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PROFILE OF 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.

**RODF = 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 (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, F₈=2,325 PSI, F₈=310 PSI, F₆=900 PSI

*LVL: E=2,000,000 PSI, F₈=2,600 PSI, F₈=285 PSI, F₆=750 PSI

*PSI: E=2,100,000 PSI, F₈=2,900 PSI, F₆=290 PSI, F₆=625 PSI

ENGINEERING

5. SUITE 201, QUAKERTOWN, PA 18951

(215) 804-4449

David Weekley Homes

Carolina #912 Model North Cover Sheet Serenity, Lot A668 Jasper 1 М.Р.Н

A668 115 N Project #: 047-24012 Designed By: LMR Checked By:

Issue Date: 9/25/25 1/4"=1'-0" @ 22x34



- THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE STRUCTURAL ENGINEER OF RECORD (SER) FOR THIS PROJECT, THE SER BEARS THE RESPONSIBILITY OF THE PRIMARY STRUCTURAL ELEMENTS AND THE PERFORMANCE OF THIS STRUCTURE.
 NO OTHER PARTY MAY REVISE, ALTER, OR DELETE ANY STRUCTURAL
 ASPECTS OF THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN ASPECTS OF THESE CONSTRUCTION DOZUMENTS WITHOUT WHITEN CONSENT OF KEEP ENGINEERING, P.C. OR THE SER. FOR THE PURPOSES OF THESE CONSTRUCTION DOCUMENTS, THE SER AND KSE ENGINEERING SPALL BE CONSIDERED THE SAME ENTITY. THE STRUCTURE IS DOWN STABLE IN ITS COMPLETED THE OFFICE OF THE STRUCTURE OF THE STRUCTURE. THE SER IS NOT RESPONSIBLE FOR CONSTRUCTION WITH THE CONTRIBUTION OF THIS STRUCTURE. THE SER WILL NOT BE HELD RESPONSIBLE FOR
- THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT

THE CONTRICTIONS PALLONE TO COMPORANT OF THE CONTRICTION OF THE SER DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF GEOMETRY. THE SER ASSUMES NO LUBILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. THE SER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS. ANY STRUCTURAL ELEMENTS OR DETAILS NOT FULLY DEVELOPED ON

- THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL INSINIER. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO KSE ENINIERERING FOR REVIEW BEFORE ANY CONSTRUCTION BEGINS. THE SHOP DRAWINGS WILL BE REVIEWED FOR OVERALL COMPLIANCE AS IT RELATES TO THE STRUCTURAL DESIGN OF THIS FROMEOUT. VERIFICATION OF THE SHOP DRAWINGS FOR DIMENSIONS, OR FOR ACTUAL FIELD CONDITIONS, IS NOT THE RESPONSIBILITY OF THE SER OR KSE ENOMERENING, P.C. VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE RESPONSIBILITY OF THE CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES TO KSE FINDINGSTRUKE OF CONSTRUCTION FROM S. THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE
- TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
 THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTU
 ELEMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE
- FLEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS ELEMENTS SPECIFICALLY NOTICE ON THE STRUCTURE. APPRIANCES.
 THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL
 APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL
 CODES OR RESTRICTIONS.
- 9. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING LINLESS OTHERWISE NOTED 10. WATERPROOFING AND FLASHING BY OTHERS.

FOUNDATIONS: FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH

CHAPTER 4 OF THE BUILDING CODE.

CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY

OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM GEOTECHNICAL ENGINEER ON THE STUDY OF THE PROPOSED
TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.

- CONTRACTOR.

 MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN THE BUILDING CODE.

 THE SER HAS NOT PERFORMED A SUBSURFACE INVESTIGATION. VERIFICATION OF THE ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER OR THE CONTRACTOR. SHOULD ANY ADVERSE SOIL CONDITION BE ENCOUNTERED, THE SER MUST BE CONTACTED BEFORE DEPORTED.
- THE BOTTOM OF ALL FOOTINGS SHALL EXTEND BELOW THE FROST LINE FOR THE REGION IN WHICH THE STRUCTURE IS TO BE CONSTRUCTED, BUT NOT LESS THAN A MINIMUM OF 12" BELOW GRADE, ALL FOOTINGS TO HAVE A MINIMUM PROJECTION OF 2" ON EACH SIDE OF FOUNDATION WALLS, MAXIMUM FOOTING PROJECTION SHALL NOT EXCEED THE THICKNESS OF THE FOOTING.
 WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH
- %" ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" O.C. INSTALL MINIMUM 2 ANCHOR BOLTS PER SECTION, 12' MAXIMUM FROM CORNERS. ½" DIAMETER x 8" LONG SIMPSON TITEN HD OR USP SCREW-BOLT+ SCREWS MAY BE SUBSTITUTED ON A 1 FOR 1 BASIS FOR CONCRETE FOUNDATIONS ONLY.

 ANY FILL SHALL BE PLACED UNDER THE DIRECTION OR
- RECOMMENDATION OF A LICENSED PROFESSIONAL ENGINEER, THE RESULTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY
- EXCAVATIONS OF FOOTINGS SHALL BE LINED TEMPORARILY WITH A 6
 MIL POLYETHYLENE MEMBRANE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HOURS OF EXCAVATION. NO CONCRETE SHALL BE PLACED AGAINST ANY SLIBGRADE CONTAINING
- WATER, ICE, FROST, OR LOOSE MATERIAL.
 PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE
- SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS (SEE ARCHITECTURAL PLANS AND DETAILS).
 NONE OF THE FOUNDATION DESIGNS IN THESE DOCUMENTS ARE SUITABLE
- FOR INSTALLATION IN SHRINK/SWELL CONDITIONS, REFER TO
- GEOTECHNICAL ENGINEER FOR APPROPRIATE DESIGN.
 LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM
 FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST TEN FEET.
- WILLIN THE FIRST LEN FEET.

 CRAWL SPACE TO BE GRADED LEVEL AND CLEAR OF ALL DEBRIS.

 PROVIDE MINIMUM 6 MIL APPROVED VAPOR BARRIER. ALL JOINTS TO BE LAPPED MINIMUM 12" AND SEALED.

- CONCRETE & REINFORCING
 - CONCRETE DESIGN BASED ON ACI 318 AND ACI 318.1 OR ACI 332.
 CONCRETE SHALL HAVE A NORMAL WEIGHT AGGREGATE AND A MINIMUM
 COMPRESSIVE STRENGTH (f'c) = 3,000 PSI MINIMUM AT 28 DAYS PER CODE (VARIES W/ WEATHER), UNLESS OTHERWISE NOTED ON THE PLAN. CONCRETE SHALL BE PROPORTIONED, MIXED, AND PLACED IN
- ACCORDANCE WITH THE LATEST EDITIONS OF ACL 318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
- AIR ENTRAINED CONCRETE MUST BE USED FOR ALL STRUCTURAL ELEMENTS EXPOSED TO FREEZE/THAW CYCLES AND DEICING CHEMICALS. AIR ENTRAINMENT AMOUNTS (IN PERCENT) SHALL BE WITHIN -1% TO +2% OF 5% FOR FOOTINGS AND EXTERIOR SLABS.

 NO ADMINITURES SHALL BE ADDED TO ANY STRUCTURAL CONCRETE WITHOUT WRITTEN PERMISSION OF THE SER. WATER ADDED TO
- CONCRETE ON SITE SHALL NOT EXCEED THAT ALLOWED BY THE MIX
- CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302,1R: "GUIDE FOR CONCRETE SLAB AND SLAB CONSTRUCTION". CONTROL OR SAW CUT JOINTS (CUT OR TOOLED) SHALL BE SPACED IN
- INTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 15'-0" O.C. AND IN EXTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 10'-0" UNLESS OTHERWISE NOTED, CARE SHALL BE TAKEN TO AVOID RE-ENTRANT CORNERS
- CONTROL OR SAW CUT JOINTS SHALL BE PRODUCED USING CONVENTIONAL CUT OR TOOLED PROCESSES WITHIN 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED. REINFORCING STEEL MAY EXTEND THROUGH A SAW CUT JOINT
- ALL WELDED WIRE FABRIC (W.W.F.) FOR CONCRETE SLABS-ON-GRADE SHALL BE PLACED AT MID-DEPTH OF SLAB. THE W.W.F. SHALL BE SECURELY SUPPORTED DURING THE CONCRETE POUR, FIBROUS CONCRETE REINFORCEMENT, OR POLYPROPYLENE FIRERS MAY BE LISED. CONCRETE REINFORCEMENT, OR POLTPROPTENE FIBERS MAY BE SEEN IN LIEU OF WW.F. APPLICATION OF POLYPROPYLENE FIBERS PER CUBIC YARD OF CONCRETE SHALL BE PER MANUFACTURER AND COMPLY WITH ASTM C1116, ANY LOCAL BUILDING CODE REQUIREMENTS AND SHALL MEET OR EXCEED CURRENT INDUSTRY STANDARD.
- POLYPROPYLENE REINFORCING TO BE 100% VIRGIN, CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT.
- 11. STEEL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315: "MANUAL
- OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES". HORIZONTAL FOOTING AND WALL REINFORCEMENT SHALL BE
- CONTINUOUS AND SHALL HAVE 90° BENDS, OR CORNER BARS WITH THE SAME SIZE/SPACING AS THE HORIZONTAL REINFORCEMENT.
- 14. PROVIDE REINFORCEMENT LAP AS NOTED BELOW, UNLESS NOTED OTHERWISE: #4 BARS - 30" LENGTH
- #5 BARS 38" LENGTH #6 BARS 45" LENGTH
- WHERE REINFORCING DOWELS ARE REQUIRED, THEY SHALL BI 13. WHERE REINFURGING DOWNES ARE REQUIRED, THEI SPAUL IN EQUIPALENT IN SIZE AND SPACING TO THE VERTICAL REINFORCEMENT. THE DOWNEL SHALL EXTEND 48 BAR DIAMETERS VERTICALLY AND 20 BAR DIAMETERS INTO THE FOOTING. SEE KEE FOUNDATION DETAILS. 16. WHERE FOOTING BOTTOMS ARE TO BE STEPPED AT SLOPING GRADE
- CONDITIONS PROVIDE CONTINUOUS REINFORCING WITH 7 BARS (TO MATCH FOOTING REINFORCING) AS REQUIRED.
- 17. BAR SUPPORT ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST ACL MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, EXCEPT THAT REINFORCING SHALL BE CHAIRED ON THE BOTTOM AND/OR THE SIDES ON BOLSTERS SPACED NOT MORE THAN 4 FEET ON CENTER NO ROCKS, CMU, CLAY
- SPACED NOT MORE HANA 4 FEET ON CENTER, NO ROCKS, CMD, CLAT TILE, OR BRICK SHALL BE USED TO SUPPORT REINFORCING. FOR GRADE SUPPORTED SLABS, SLAB REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS AND ACCESSORIES AS DESCRIBED IN THE CRSI MANUAL OF STANDARD PRACTICE, BAR SUPPORTS SHALL BE SPACED A MAXIMUM OF 4'-0" O.C. BOTH WAYS IN STRAIGHT LINES ON

MASONRY

- ALL MASONRY SHALL CONFORM TO ASTM C-90, F'm=1500 PSI, ALL BRICK SHALL CONFORM TO ASTM C-216, F'm=1500 PSI. ALL MORTAR SHALL BE TYPE 'S' (TYPE 'M' BELOW GRADE) AND CONFORM TO ASTM C-270. COARSE GROUT SHALL CONFORM TO ASTM C-476 WITH A MAXIMUM AGGREGATE SIZE OF 36" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,000
- ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH "RUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530/ASCE 5/TMS 402 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1 / ASCE 6/TMS 602
- THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION
- EACH CRAWL SPACE PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING AND EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS. PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL
- FOUNDATION WALL.
 TOP COURSE OF MASONRY SHALL BE GROUTED SOLID.
 HORIZONTAL WALL JOINT REINFORCEMENT SHALL BE STANDARD 9 GAGE
 GALVANIZED LADDER OR TRUSS TYPE SPACED AT 16° O.C., UNILESS SHOWN OTHERWISE ON THE DRAWINGS.
- SPLICED WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT WITHIN THE 6". LAP WITH STANDARD 'T' AND 'L'

WOOD FRAMING:

- SOLID SAWN WOOD FRAMING MEMBERS SHALL CONFORM TO THE SPECIFICATIONS LISTED IN THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION": (NDS). LINEESS THERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGNED
- SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING MINIMUM DESIGN
- E=1,400,000 PSI, F_b=875 PSI, F_v=135 PSI
- 1.1. FRAMING: SPF #2.
- 1.2. PLATES: SPF #2. 1.3. STUDS: SPF STUD GRADE
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED SOUTHERN YELLOW PINE #2 OR
- ANCHOR SILL PLATES IN ACCORDANCE W/ GENERAL STRUCTURAL NOTES. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY BE SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. NAILS SHALL BE COMMON WIRE NAILS UNLESS OTHERWISE NOTED.
- BOLT HOLES AND LEAD HOLES FOR LAG SCREWS SHALL BE IN ACCORDANCE WITH NDS SPECIFICATIONS.
- INDIVIDUAL STUDS FORMING A COLUMN SHALL BE ATTACHED WITH (2) ROWS 10d NAILS @ 6" O.C. STAGGERED. THE STUD COLUMN SHALL BE FULLY BLOCKED AT ALL FLOOR LEVELS TO ENSURE PROPER LOAD
- TRANSFER, WALL SHEATHING SHALL BE NALED TO EDGE OF EACH STUD.
 FACE NAIL ALL MULTI-PLY BEAMS AND HEADERS WITH (2) ROWS 164 COMMON NAILS @ 16" O.C., STAGGERED, OR PER MANUFACTURER'S SPECIFICATIONS FOR ENGINEERED LUMBER. APPLY NAILING FROM BOTH FACES FOR (3) OR MORE PLIES.
- FASTEN 4-PLY BEAMS WITH (1) 1/2" DIAMETER THROUGH BOLT w/ NUT WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, 15" MINIMUM EDGE DISTANCE, (UNLESS OTHERWISE NOTED)
- ALL BEAMS AND HEADERS SHALL HAVE (1)2x JACK STUD & (1)2x KING STUD UNLESS OTHERWISE NOTED, THE NUMBER OF STUDS INDICATED ON PLANS ARE THE TOTAL NUMBER OF JACK STUDS REQUIRED, UNLESS
- 11. PROVIDE KING STUDS AT EACH END OF HEADERS AS NOTED BELOW. 16" O.C. STUD SPACING: (1) STUD UP TO 3' OPENING 24" O.C. STUD SPACING: (1) STUD UP TO 4' OPENING (2) STUDS UP TO 4' OPENING (2) STUDS UP TO 8' OPENING STUDS UP TO 8' OPENING (5) STUDS UP TO 12' OPENING (4) STUDS UP TO 16' OPENING (6) STUDS UP TO 16' OPENING
 ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL
- BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED WITH A MINIMUM OF TWO STUDS, UNLESS OTHERWISE NOTED. ALL BEAM
- WITH A MINIMUM OF TWO STUDS, UNLESS OTHERWISE NOTED. ALL BEAM SPLICES SHALL OCCUR OVER SUPPORTS. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS. 14. ALL LUMBER SPECIFIED ON DRAWINGS IS INTENDED FOR DRY USE ONLY
- (MOISTURE CONTENT <19%) UNLESS OTHERWISE NOTED.
 ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE TH RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND
- DETAILED BY OTHERS DETAILED BY OTHERS.
 ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIAMETER SHALL HAVE STUD PROTECTION SHIELDS. ALL HOLES OVER 1" IN DIAMETER FOR PLUMBING
- PROTECTION SHIELDS. ALL HOLES OVER 1 IN DIAMETER FOR PLUMBI LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HSS2 OR USP STS1 STUD SHOES, TYPICAL, UNLESS OTHERWISE NOTED. BEARING WALLS SHALL BE SHEATHED ON NOT LESS THAN ONE SIDE WITH OSB OR GYPSUM BOARD, BRIDGING SHALL BE INSTALLED NOT GREATER THAN 4 FEET APART MEASURED VERTICALLY FROM EITHER END THE STUD IN LIEU OF SHEATHING.

EXTERIOR WOOD FRAMED DECKS

- DECKS ARE TO BE FRAMED IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND AS REFERENCED ON THE STRUCTURAL PLANS.
- EITHER THROUGH CODE REFERENCES OR CONSTRUCTION DETAILS.
 PRESERVATIVE TREATED WOOD FRAMING TO BE SOUTHERN YELLOW PINE #2 OR BETTER.
- GUARD RAILS AND LATERAL BRACING IS REQUIRED AT DECKS. DESIGN BY
- PROVIDE DECK LATERAL LOAD CONNECTIONS PER BUILDING CODE

RAFTER FRAMED ROOF CONSTRUCTION:

- PROVIDE 2x4x4"-0" RAFTER TIES AT 48" O.C.
 RAFTERS SHALL BE SUPPORTED BY PURLINS AND PURLIN BRACES
 AS SHOWN ON THE PLAN. PURLIN BRACES SHALL NOT BEAR ON ANY CELLING JOIST STRONGRACK OR HEADER LINLESS SPECIFICALLY
- SHOWN ON PLAN. RAFTERS MAY BE SPLICED AT PURLIN LOCATIONS.
 CEILING JOISTS SHALL HAVE LATERAL SUPPORT w/ 1x4 FLAT BRACING ON TOP FDGE OF JOIST AT LOOSE JOIST ENDS (WHERE JOISTS NOT FASTENED TO RAFTERS) OR FULL DEPTH BLOCKING. FASTEN END OF BRACING TO RAFTÉR OR GABLE END FRAMING
- FASTEN RAFTER AND CEILING JOIST WITH (6) 12d NAILS UNLESS OTHERWISE NOTED.
- PROVIDE VERTICAL 2x6 STRONGBACKS AT CEILING JOISTS @ 8'-0" O.C. TIE STRONGBACK ENDS TO GABLE STUDS OR RAFTERS WHERE POSSIBLE. PROVIDE BLOCKING BETWEEN TOP PLATES AND STRONGBACKS. PROVIDE 2x4 FLAT FASTENED TO EACH JOIST WITH (2) 12d NAILS FASTEN STRONGRACK TO 2v4 FLAT WITH 12d NAILS @ 12" O.C. AND FASTENED TO EACH JOIST WITH (1) 12d TOENAIL

WOOD TRUSSES (FLOOR & ROOF):

- THE WOOD TRUSS MANUFACTURER/FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF THE WOOD TRUSSES, SUBMIT SEALED SHOP DRAWINGS AND SUPPORTING CALCULATIONS TO THE SER FOR REVIEW PRIOR TO FABRICATION. THE SER SHALL HAVE A MINIMUM OF (5) DAYS FOR REVIEW. THE REVIEW BY THE SER SHALL BE FOR OVERALL COMPLIANCE OF THE DESIGN DOCUMENTS. THE SER SHALL ASSUME NO RESPONSIBILITY FOR THE CORRECTNESS OF THE STRUCTURAL DESIGN FOR THE WOOD TRUSSES.
- THE WOOD TRUSSES SHALL BE DESIGNED FOR ALL REQUIRED LOADINGS AS SPECIFIED IN THE LOCAL BUILDING CODE THE ASCE STANDARD. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES. (ASCE 7), AND THE LOADING REQUIREMENTS SHOWN ON THESE SPECIFICATIONS. THE TRUSS DRAWINGS SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION DOCUMENTS AND PROVISIONS PROVIDED FOR LOADS SHOWN ON THESE DRAWINGS INCLUDING BUT NOT LIMITED TO HVAC FOLIPMENT, PIPING, AND ARCHITECTURAL FIXTURES ATTACHED TO
- THE TRUSSES.
 THE TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/TPI : "NATIC DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION"
- THE TRUSS MANUFACTURER SHALL PROVIDE ADEQUATE BRACING INFORMATION IN ACCORDANCE WITH "BUILDING COMPONENT SAFETY INFORMATION GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES' (BCSI) THIS BRACING BOTH TEMPORARY AND PERMANENT SHALL BE SHOWN ON THE SHOP DRAWINGS. ALSO, THE SHOP DRAWINGS SHALL SHOW THE REQUIRED ATTACHMENTS FOR THE TRUSSES.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING TEMPORARY BRACING AND SHORING FOR THE FLOOR AND ROOF TRUSSES AS REQUIRED DURING CONSTRUCTION. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE LATEST BCSI. THE CONTRACTOR SHALL KEEP A COPY OF THE BCSI SUMMARY SHEETS ON SITE.

- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PERMANENT TRUSS BRACING SHOWN IN THE STRUCTURAL DRAWINGS AND IN THE TRUSS DESIGNS. ALL CONTINUOUS LATERAL BRACING OF WEBS REQUIRES BRACES. REFER TO BCSI SUMMARY SHEET B3 FOR TYPES OF DIAGONAL BRACES TO PROVIDE AT EACH CONTINUOUS LATERAL BRACE LINE, SUCH BRACES IN PROVIDE AT BUSH CONTINUOUS SHERRER BRACE EIGH. SOU DIAGONAL BRACES SHALL NOT BE SPACED MORE THAN 20 FEET O.C. DIAGONAL BRACES SHALL BE FASTEND TO EACH TRUSK WEB WITH AT MINIMUM OF TWO TOOF FACE SHALLS. WHERE CONTINUOUS LATERAL BRACING CANNOT BE INSTALLED, DUE TO A MINIMUM OF THREE ADJACENT TRUSSES NOT BEING IDENTICAL, THE CONTINGATION SHALL COORDINATE WITH THE TRUSS SPECIALTY ENGINEER/MANUFACTURER TO DETERMINE WHAT TYPE OF ALTERNATE BRACE (I.E., T OR L BRACE, ETC.) IS REQUIRED
- ANY CHORDS OR TRUSS WERS SHOWN ON THESE DRAWINGS HAVE BEEN SHOWN AS A REFERENCE ONLY. THE FINAL DESIGN OF THE TRUSSES SHALL BE PER THE MANUFACTURER.
 TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH
- THE SUPPORT LOCATIONS SHOWN ON THE SEALED STRUCTURAL DRAWINGS, TRUSS PROFILES TO BE SEALED BY THE TRUSS
 MANUFACTURER, TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS.
- TRUSS MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTORS FOR ALL TRUSSES
- PROVIDE SIMPSON H2.5A, USP RT7 OR EQUIVALENT AT EACH TRUSS TO TOP PLATE CONNECTION, UNLESS OTHERWISE NOTED

- WOOD STRUCTURAL PANELS:

 1. FABRICATION AND PLACEMENT OF STRUCTURAL WOOD SHEATHING SHALL BE IN ACCORDANCE WITH THE APA DESIGN/CONSTRUCTION GUIDE "RESIDENTIAL AND COMMERCIAL," AND ALL OTHER APPLICABLE APA STANDARDS
- ALL STRUCTURALLY REQUIRED WOOD SHEATHING SHALL BEAR THE
- WOOD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION. EXTERIOR WALLS TO BE FULLY SHEATHED LISING 76" OSB MINIMUM AT BRACED WALL PANELS PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS OR
- PLATES.
 ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ROOF SHEATHING SHALL BE CONTINUOUS OVER TWO SUPPORTS MINIMUM AND ATTACHED TO ITS SUPPORTING ROOF FRAMING WITH 8d NAL AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED WITH THE LONG DIRECTION PERPENDICULAR TO FRAMING SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING. PROVIDE SUITABLE EDGE SUPPORT BY USE OF PLYWOOD CLIPS OR LUMBER BLOCKING UNLESS OTHERWISE NOTED PANEL END JOINTS SHALL OCCUR OVER FRAMING, ROOF SHEATHING
- TO BE $\frac{7}{6}$ OSB MINIMUM. WOOD FLOOR SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ATTACH SHEATHING TO ITS SUPPORTING FRAMING WITH (1) 10d NAIL AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED PERPENDICULAR TO FRAMING SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING, PROVIDE SUITABLE EDGE SUPPORT BY USE OF TAMING SPACIONS. FROM BE SUBJECT TO THE USE OF THE STATE OF THE STATE
- SHEATHING SHALL HAVE A %" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE APA

STRUCTURAL FIBERBOARD PANELS:

- STRUCTURAL FIBERBOARD SHEATHING SHALL ONLY BE USED WHERE SPECIFICALLY NOTED ON THE STRUCTURAL PLANS. FABRICATION AND PLACEMENT OF STRUCTURAL FIBERBOARD
- SHEATHING SHALL BE IN ACCORDANCE WITH THE APPLICABLE AFA STANDARDS
- STARUARDS.

 FIBERBOARD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION.
- SHEATHING SHALL HAVE A %" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE AFA.

- STRUCTURAL STEEL:

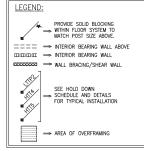
 1. STRUCTURAL SITEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS
- ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS (F.) OF 50 KSI UNLESS OTHERWISE NOTED.
 WELDING SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWA
- D1.1 ELECTRODES FOR SHOP AND FIELDING WELDING SHALL BE CLASS 570XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 38" AND FULL FLANGE WIDTH UNLESS OTHERWISE NOTED. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR (2) 3/8" x 4" LAG SCREWS
- UNLESS OTHERWISE NOTED.

 INSTALL 2x WOOD PLATE ON TOP OF STEEL BEAMS, RIPPED TO MATCH BEAM WIDTH, FASTEN PLATE TO BEAM w/ HILTI X-DNI 52 P8 PINS AT 12" O.C. STAGGERED OR 1/2" DIAMETER BOLTS AT 24"

MECHANICAL FASTENERS

- ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG—TIE OR APPROVED EQUIVALENT.

 ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN
- ACCORDANCE WITH ASTM A 153, G-185,
 MANY OF THE NEW PRESSURE TREATED WOODS USE CHEMICALS
 THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S
 RESPONSIBILITY TO VERIFY THE TYPE OF WOOD TREATMENT AND SELECT APPROPRIATE CONNECTORS THAT WILL RESIST THE APPLICABLE CORROSIVE CHEMICALS.



BRICK	VENEER LINTEL SC	HEDULE
SPAN	LINTEL SIZE	END BEARING
UP TO 3'-0"	3½"x3½"x¼"	4*
UP TO 6'-3"	5"x3½"x546" L.L.V.	8"
UP TO 9'-6"	6"x3½"x5√6" L.L.V.	12*
LINTELS AR	E NOT DESIGNED TO BE BOLTEI JNLESS SPECIFIED ON UNIT PLA	TO HEADERS
SPANS OVER	A'_O" SHALL BE SHORED LIP	LINTH CHRED



NUBIN S Ш

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KERTOWN, PA 18951
(215) 804-4449

Homes <u>5</u>2 Weekl David 7

#912 Model H. North Serenity, Lot A668 Jasper σ. \geq A668 115 N Raleig

Carolina

gh,

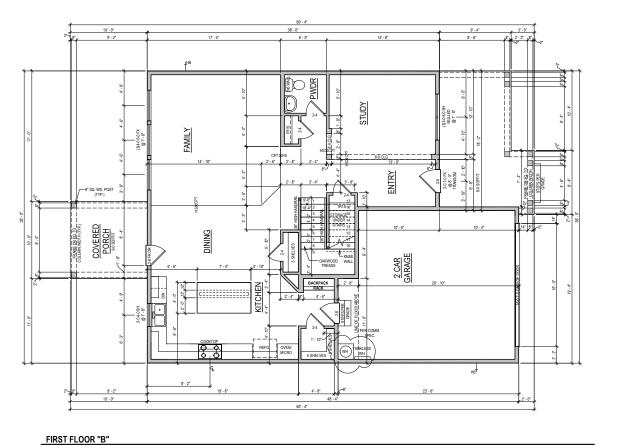
es

9

Structural

General Project #: 047-24012 Designed By: LMR Checked By:

Issue Date: 9/25/25 Re-Issue: Scale: 1/8"=1'-0" @ 11-17 1/4"=1'-0" @ 22x34



GENERAL REQUIREMENTS
SLOPED SLIFANCE REQUIREMENTS
ALL PATIOS TO SLICPE HAY PER FOUT

GHANGE FLOCK TO BE SLOPED 14" FER POOT TOWNEDS VEHICLE BUTRY DOOR ROOF DECKS, AND BULCOMES TO BE SLOPED 14" FER POOT TOWNEDS RELIEF F RAUMO GEOLURICHEERIS PRISHED HANDAM, REQUIRED AT STARRS WITH 4 OR MODE RISERS

FINISHED GUARDRALS REQUIRED AT DECKS, BALCONIES AND WALKHI GREATER ABOVE GRADE AND BEAT A MINIMUM OF 36" IN HEIGHT

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

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

l		
	1206 SF	
COUTU	100 SF	
SOUTH	189 SF	
I V CCO D	448 SF	
A668-B	1943 SF	
PI N-1		
L FIA-1	1206 SF	
JASPER	1167 SF	
JASPER	100 SF	
RALEIGH	189 SF	
KALLIGH	448 SF	
l	3110 SF	

NI MICRO			
READS			
		\bigcap	
20,	Proj. No.:	:	ľ
COVE	3294	.: -	'

PLAN SQFT - B

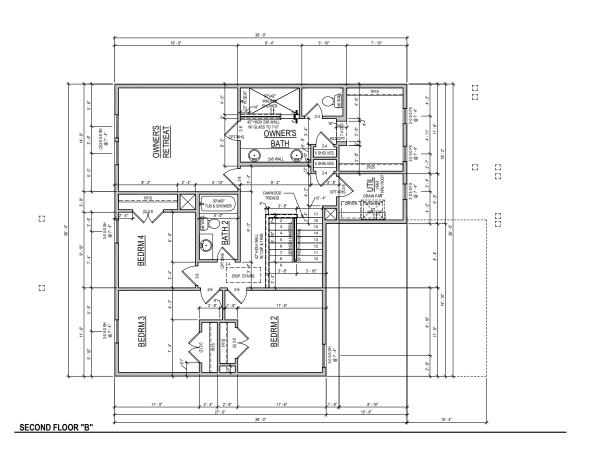
1206 SF 1236 SF 2442 SF

Proj. No.:	3294	Job No.: 0912
SERENITY 50'	77 RAINBROOK COVE	FUQUAY VARINA, NC

NITY 50'	Proj. No.:	_
ROOK COVE	3294	_
VARINA, NC	Job No.:	ш
-	0912	0)

0	3294	Job No.: Blo	0912
11TY 50'	OOK COVE	'ARINA, NC	

Ock: PTJOEAFIKR	1 Weekle
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NOTE: ALL 2ND FLR. CEILING HEIGHTS 8' - 0" UNLESS NOTED OTHERWISE

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

David Weekley Homes Scale:1/8"=1'-0" Rev: 8/11/25 AM

Week key Homes LP. 2024
The measuments, dimensions, and other specification shown in the document solutions to construction with the documents of the documents and the documents of the statement of these the consider

PT/JOE/AF/KR Date: 11/22/2024 Lot: 912 Block:

Proj. No.: 3294 Job No.: 0912

SERENITY 50' 77 RAINBROOK COVE FUQUAY VARINA, NC





ENGINEERING E, SUITE 201, QUAKERTOWN, PA 18951 COM (215) 804-4449

KSE









Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

LEGEND

→ CONTROL JOINT

PROVIDE SOLID BLOCKING

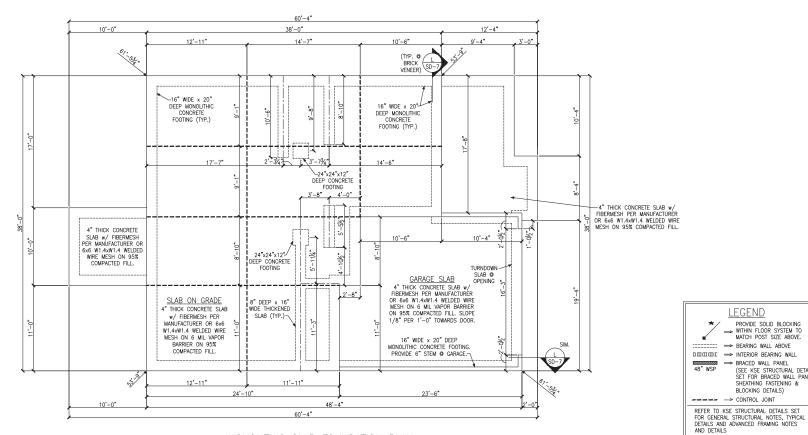
WITHIN FLOOR SYSTEM TO
MATCH POST SIZE ABOVE.

⇒ BEARING WALL ABOVE

⇒ INTERIOR BEARING WALL BRACED WALL PANEL

(SEE KSE STRUCTURAL DETAILS
SET FOR BRACED WALL PANEL

SHEATHING FASTENING & BLOCKING DETAILS)

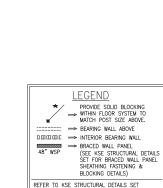


MONOLITHIC SLAB FOUNDATION PLAN



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KSE



STRUCTURAL COLUMN, INSTALL PER MANUFACTURER'S

SPECIFICATIONS (TYPICAL)

2x6 LEDGER w/ (3) ROWS 12d -NAÌLS @ 12" O.C.

-(5)

-(5)

48" WSP

(2)2x8

(2)2x8₇

SIMPSON HUC28-2 (TYP.)

ROOF TRUSSES ... @ 24" O.C.

ROOF TRUSSES

STUDY

ENTRY

_80" GB(2)

CS-ESW(1) DESIGNED TO REPLACE 52" OF SCHOOL CS-WSP.

2 CAR

GARAGE

HANGERS PER TRUSS SUPPLIER

(TYP.)

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 16" DEEP TJI 210 SERIES OR EQUAL, SPACING PER MANUFACTURER.

KEYNOTES:

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

A668 Jasper Model 115 M.P.H. Raleigh, North Carolina Second Floor Serenity, Lot A668 Jasper I Project #: 047-24012 Designed By:LMR Checked By: Issue Date: 9/25/25

Re-Issue:
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

Plan

Floor

Framing #912 Model



SECOND FLOOR FRAMING PLAN

CONT.

RIM BOARD

+

HANGERS BY-JOIST SUPPLIER

(TYP.)

DINING

KITCHEN

RIM BOARD

PWDR

FAMILY

START JOIST LAYOUT
HERE @ 19.2" O.C. 18"
DIMENSION IS TO
RIGHT FACE OF JOIST

STRUCTURAL COLUMN BY OTHERS WITH MIN. 1,500 LB. CAPACITY. INSTALL

PER MANUFACTURER'S

INSTRUCTIONS.

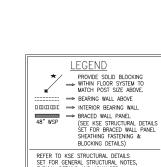
COVERED-

PORCH

ROOF TRUSSES @ 24" O.C.

> SIMPSON-HUC210-2 (TYP.)





WSP (1)2x6 (1)2x6

(1)2x6

48" WSP

@ 24" O.C.

OWNER'S

RETREAT

BEDRM 4

|-----

BEDRM 3

ROOF GIRDER TRUSS

BATH 2

ROOF TRUSSES @ 24" O.C.

48" WSP

OWNER'S

BATH

ROOF TRUSS

VALLEY SET

BEDRM 2

ROOF FRAMING PLAN

48" WSP

닎

UTIL

2x6 @ 12" %0 O.C. Balloon FRAMED WALL CS-ESW(1) DESIGNED TO REPLACE 52" OF CS-WSP.

HANGERS PER TRUSS SUPPLIER

-(TYP.)

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

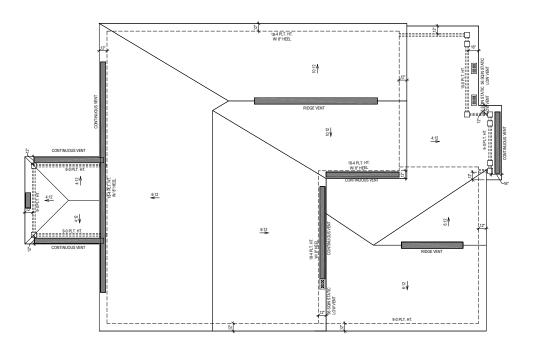
PLAN DESIGNED WITH 8' NOMINAL WALL PLATE HEIGHT



KEYNOTES: AT RAISED FLOOR BELOW, CONNECT STUD AT END OF BRACED WALL PANEL TO FRAMING BELOW WITH A 30" LONG SIMPSON CS20 COIL STRAP WITH MIN 8-104 MAILS EACH END. AT SLAB FOUNDATION BELOW, CONNECT STUD TO FOUNDATION W, SIMPSON DITTLY W/ SIMPSON 5%%6" TITEN HO SCREW ANCHOR AND 3½" MINIMUM EMBEDMENT.



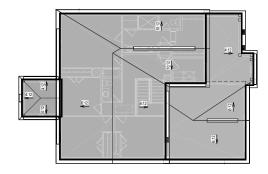
Roof Framing Plan Serenity, Lot #912 A668 Jasper Model 115 M.P.H. Project #: 047-24012
Designed By:LMR
Checked By: Issue Date: 9/25/25
Re-Issue:
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34



ROOF PLAN "B"

 ZONE 3 ATTIC
 ZONE 2 ATTIC
 ZONE 1 ATTIC

 100 SF
 1234 SF
 607 SF



ROOF VENTILATION "B"

			ATT	IC V	ENTIL	ATION W	/ITH	SECOND	ARY I	NTA	KE		
NET	FREE VENTI	LATED AR	EA		EXHAUST	VENTS		IN	TAKE VENT	S		ACT VENTIL/	
NFVA	#AREA SF	(144/RA	70			THAN 3' BELOW IT OF ZONE		INSTALL IN L	OWER THIS	RD OF ZO	NE	EXHAUST EXCEED	
					VENTS		PRIMARY VENTS			SECONDARY VENTS			
ZONE	AREA	VENT	MIN	REQ	SIZE	COUNT	SIZE	COUNT	INTAKE SI	SIZE	COUNT	EXHAUST	INTAKE %
		KAIIU N	NEVA		SQIN EA or SQINLF SQIN EA or SQINLF	SQIN	EA or SQIN/LF	70	79				
ZONE 1	607 SF	300	292	Yes	18	8	5	8	73%	56	2	49%	51%
ZONE 2	1234 SF	300	592	Yes	18	16	5	51	17%	56	1	48%	52%
ZONE 3	100 SF	150	96	No	0	0	5	20	0%	56	0	0%	100%

TRUSS ROOF NOTES

ALL OVERHANGS PER PLAN MEASURED FROM OUTSIDE FACE OF FRAME.

GABLE OVERHANGS 12" UNLESS NOTED OTHERWISE

HIP OVERHANGS 16" UNLESS NOTED OTHERWIS

ON FASCIA TO MAINTAIN CONSISTENT OVERHANG WITH DIFFERING ROOF PITCH

THE TRUSS MANUFACTURER SHALL DETERMINE ALL SPANS, WORKING POINTS, BEARING POINTS, AND SIMILAR CONDITIONS. TRUSS SHOP DRAWINGS SHALL SHOW ALL TRUSSES, MEMBERS, AND ALL TRUSS TO TRUSS HANGERS.

ALL OVERFRAMING AND BRACING TO BE NO. 2 GRADE 2X S.Y.P. UNLESS NOTED OTHERWISE

ROOF SHEATHING AT OVERFRAME SHALL BE REMOVED TO ALLOW FOR VENTILATION BETWEEN ATTIC SPACES ON VENTED ATTICS.

ACTUAL ATTIC VENTILATION MAY VARY. VERIFY IN THE FIELD.

Week lay Homes L.P. 2024

The measurement Leimestroin, and not be specifications shown on this document are guidelines for contruction uses you. The scale specifications of the high de structure may vary. This document may you be relief on as a representation of what the completed structure will look like.

 David Weekley Homes

 PTJOEAFIKR
 Scale:1/8"=1-0"

 Date: 11/22/2024
 Rev: 8/11/25 AM

3294 Lot: 912 3294 Block: Block: P

SERENITY 50' 77 RAINBROOK COVE FUQUAY VARINA, NC

SOUTH A668-B RFP-1 JASPER

RALEIGH

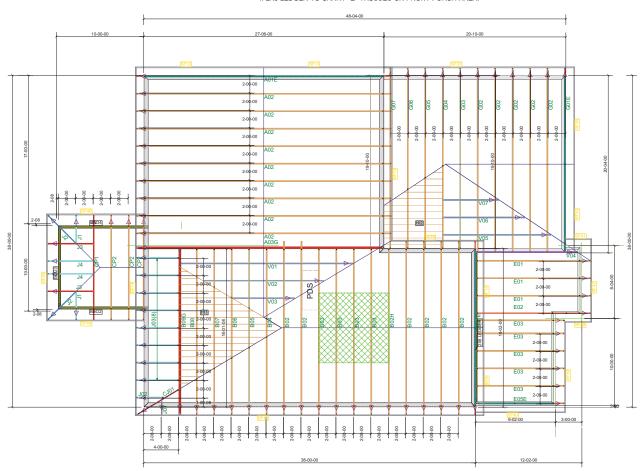
Truss Co	onnector Total	List
Manuf	Product	Qty
Simpson	HHUS26-2	1
Simpson	LUS24	11
Simpson	LUS26*	5

Hatch Legend

LIGHT ATTIC STORAGE/HVAC PLATFORM

NOTES:

- 1. ALL WALL DIMENSIONS ARE FROM OUTSIDE OF WALL SHEATHING.
- 2. ALL TRUSS LAYOUT DIMENSIONS START AT FRAME OF WALL WHERE TRUSS SITS.
- 3. FLAT CHORDS AT HIPS ARE DROPPED FOR 1 1/2" STRINGERS.
- 4. 2X6 LEDGER TO CARRY "E" TRUSSES ON FRONT PORCH AREA.



AT LUMBER 84 Components 200 Emmett Rd Dunn NC 28334 United States Office: (910) 892-8400

David Weekly Serenity

Location

912

2383-Dunn

P05396-30387

#qof

- ROOF

Serenity

912

Designer Danny Wallace

DO NOT CUT, NOTCH, OR BORE HOLES UNLESS SPECIFIC, WRITTEN PERMISSION IS ROVIDED BY AN AUTHORIZED REPRESENTATIVE (84 LUMBER.

TRUSS INSTALLATION REQUIRES TEMPORARY AND PERMANENT BRACING. GENERAL GUIDANCE IS PROVIDED IN SBCA DOC'S B-1 and B-3. THESE ARE INCLUDED WITH EACH JOB IN YOUR TRUSS PACKET.

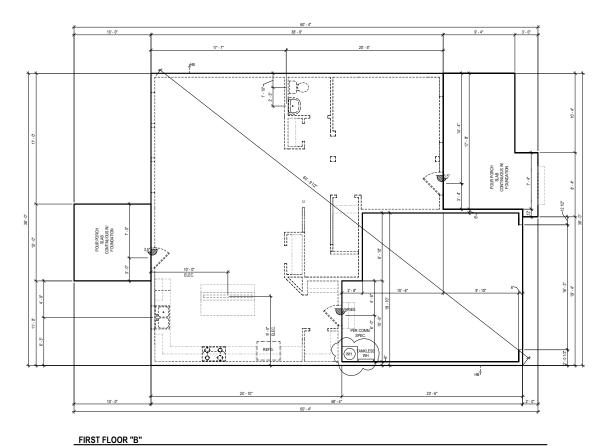
Sheet # 1 of 1

Roof Truss Placement Plan

NOT TO SCALE

DESIGNED DATE

9/26/2025



SEE ENGINEERING FOR ANCHOR BOLT REQUIREMENTS

Week key Homes L.P. 2024
The measurements, dimensions, and other specifications shown on this Connection use only. The actual specification of the finited sectors may not because may be the control may not be seen to get a finite district may not be read of the finite district may not be read of the finite district may not be read on as a representation of what the completed structure will look its.

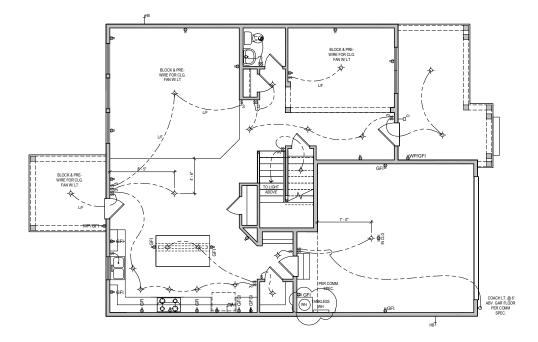
David Weekley Homes

Lot: 912 Block:

3294 Lc Job No.: BI 0912 Sc

SERENITY 50' 77 RAINBROOK COVE FUQUAY VARINA, NC

A668-B FS-1 JASPER RALEIGH



FIRST FLOOR "B"

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The measurements, directions, and other specifications are also may not be supplication and power as the contract as guideness for construction use only. The stead specification of the finished receives may the contenting mode between the profession as a representation of the finished receives any of the completed affection will loss files.

David Weekley Homes

TJOEIAFIKR Scale: 1/8"=1'-0"

ate: 11/22/2024 Rev: 8/11/25 AM

Lot: 912	Block:	Sect:
Proj. No.:	Job No.:	0912

SERENITY 50' 77 RAINBROOK COVE FUQUAY VARINA, NC

ф	110V OUTLET 12" A.F.F. (U.N.O.)	투	ELEVATOR CALL BUTTON
GFI 0	GROUND FAULT INTERRUPTOR (WEATHER PROOF AS NOTED)		RECESS CAN LIGHT (EYEBALL AS NOTED)
1/2	HALF HOT OUTLET	VT ●	EXHAUST VENT
ф	220V OUTLET (36" A.F.F. @ UTILITY)	SD ⊠	SMOKE DETECTOR (CARBON MONOXIDE AS
•	PHONE LINE	₽ ^D	NOTED) DOOR BELL
Тф	CABLE TELEVISION	CHIMES	CHIMES
\$	STANDARD SWITCH (3 OR 4 WAY AS NOTED)	ELEC.	PANELBOARD W/ CIRCUIT
φ-	SURFACE MOUNTED LIGHT	HB _†	BREAKERS HOSE BIB
÷	SURFACE MOUNTED LED D DISC LIGHT	GAS T CW HW	GAS TAP
Q	WALL MOUNTED LIGHT	11	COLD/HOT WATER SUPPLY
0	JUNCTION BOX		

UTILITY LEGEND

IN ALL HABITABLE ROOMS LIGHT BOXES MUST BE FAN RATED

MID-ATLANTIC General Notes

ALL ELECTRICAL PLUGS TO BE 9" TO TOP FROM FLOOR IN ROOMS WITH IN MOULDINGS.

SWITCH FOR ATTIC LIGHT TO BE LOCATED OUTSIDE OF ATTIC SPACE, 12 INCHES FROM CEILING.

DO NOT RUN WIRES ON TOP OF JOISTS IN AREAS LIKELY TO HAVE DECKING IN ATTIC. (near disappearing stairs)

741 110. (rotal datappointing states)

 PROVIDE SMOKE DETECTORS IN EVERY BEDROOM. SEE SPECS FOR REQUIRED TYL AND WIRING.

5. PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.

6. LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.



[] [] E3 03

SECOND FLOOR "B"

[]

[]

UTILITY LEGEND BUTTON

RECESS CAN LIGHT
(EYEBALL AS NOTED) VT EXHAUST VENT HALF HOT OUTLET SD SMOKE DETECTOR (CARBON MONOXIDE AS NOTED)

DOOR BELL ▼ PHONE LINE CHIMES DOOR BELL
CHIMES CABLE TELEVISION \$ STANDARD SWITCH (3 OR 4 WAY AS NOTED) - SURFACE MOUNTED LIGHT CW HW COLD/HOT WATER SUPPLY Q WALL MOUNTED LIGHT

JUNCTION BOX

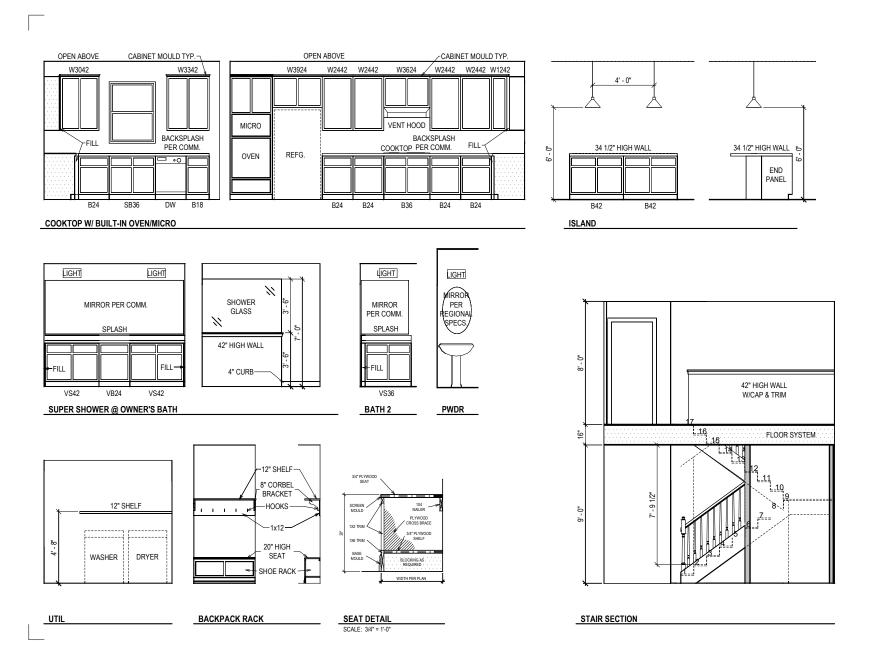
Lot: 912 Proj. No.: 3294 Job No.: 0912

SERENITY 50' 77 RAINBROOK COVE FUQUAY VARINA, NC
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David Weekley Homes

Scale:1/8"=1'-0" Rev: 8/11/25 AM

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only. The actin specification of the inhesis feature may
very. The document may not be relied on a representation
of what the complete structure will look like.

 David Weekley Homes

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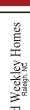
 Date: 11/22/2024
 Rev: 8/11/25 AM

Proj. No.: Lot. 912 3294 Job No.: Block: 0912 Sect:

SERENITY 50'
77 RAINBROOK COVE
FUQUAY VARINA, NC

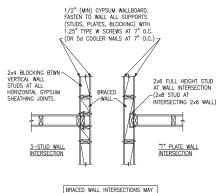
SOUTH A668-B INT-1 JASPER RALEIGH





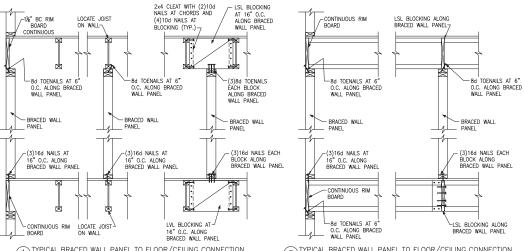






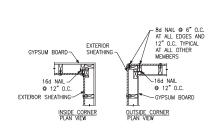
BE FRAMED USING EITHER THE 3-STUD OR THE T-PLATE METHOD

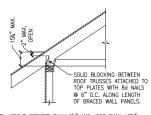
© METHOD GB(1) AND GB(2) INTERSECTION DETAILS

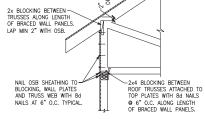


A TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION BRACED WALL PANELS PARALLEL TO I-JOISTS

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







HEEL HEIGHT GREATER THAN 91/4" AND LESS THAN 151/4"

HEEL HEIGHT GREATER 15"

DTYPICAL 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

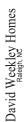
ONLY REQUIRED AT BRACED WALL PANELS



Details : #912 · Model

Raleigh, North Carolina

М.Р.Н



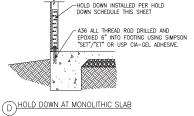


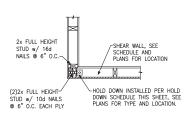












SHEAR WALL, SEE SCHEDULE AND PLANS FOR LOCATION

HOLD DOWN INSTALLED PERHOLD DOWN SCHEDULE THIS SHEET, SEE PLANS FOR TYPE

A36 ALL THREAD ROD-

SIMPSON CNW1/2 OR USP CNW12-ZP COUPLER NUT

GROUT CMU SOLID AT ALL THREAD ROD-

AND LOCATION.

(2) 2x FULL HEIGHT

STUD w/ 10d NAILS © 6" O.C. EACH PLY

2x FULL HEIGHT STUDS

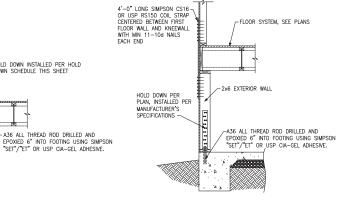
A TYPICAL HOLD DOWN DETAIL

(E)HOLD DOWN AT CRAWL FOUNDATION

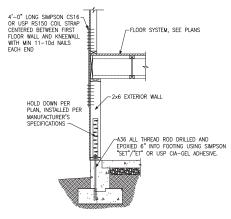
w/ 16d NAILS @ 6" O.C.

-HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET

B TYPICAL HOLD DOWN DETAIL







(C)HOLD DOWN AT STEMWALL SLAB

-HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET

- A36 ALL THREAD ROD DRILLED AND EPOXIED 6" INTO FOOTING USING SIMPSON "SET"/"ET" OR USP CIA-GEL ADHESIVE.

G HOLD DOWN AT FOUNDATION STEM WALL

HOLD DOWN SCHEDULE							
HOLD SIMPSON	DOWN	ALL TREAD ROD	FASTENERS				
LTTP2	LTS20B	⅓" DIA.	(10)10d NAILS				
HTT4	HTT16	%" DIA.	(18)16dx2½" LONG NAILS				
HTT5	HTT45	%" DIA.	(26)16dx2½" LONG NAILS				

AOSAY RECITION

Carolina

North

Detail

Ø

Wall

Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

SEE PLAN VARIES - SEE PLAN SEE PLAN ONE CONT. 2x TOP PLATE, EXTEND EACH END INTO ADJACENT WALL. CONT. BEAM FULL LENGTH OF FRAME. SEE ELEVATION FOR SIZE (11¼" MIN DEPTH) AND TYPE (DIMENSIONAL LUMBER OR LVL) NAIL SPLICES WITH 8-16d NAILS PER SPLICE/LAP. NAIL THE SHEATHING IN SHADED AREA TO BEAM WITH 8d NAILS AT 3" O.C. EACH WAY $\%_6$ " O.S.B. OR $^{15}\!\%_2$ " PLYWOOD EXTERIOR WALL SHEATHING AT UNSHADED AREAS (2) ROWS 16d NAILS AT 3" O.C. SIMPSON OR LISE FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES
SHALL BE BLOCKED AND OCCUR WITHIN 24" OF MID
HEIGHT, ONE ROW OF TYP, SHEATHING-TO-FRAMING (BEAM AND INFILL WALL), NAIL LSTA21 WITH 16-10d NAILS SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 12" AT FIRST STUD EACH SIDE OF IS REQUIRED IN EACH PANEL $\%_6$ " O.S.B. OR $^{15}\!\!\!/_{\!\!\!2}$ " PLYWOOD EXTERIOR WALL SHEATHING. AT SHADED AREAS NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, O.C. IN THE FIELD. OPENING ∠NO SILL AND CRIPPLE WALL "H" = FRAME HEIGHT VARIES-- SEE ELEVATION AT BAY/DOOR ETC.) WITH 8d NAILS AT 3" O.C. (2)2x STUD MIN. AT START AND END OF WALL SIMPSON LTP4 OR USP MPF4 SEGMENTS EACH SIDE OF OPENING. IF PLANS CALL FOR MORE THAN TWO STUDS, PROVIDE NUMBER OF STUDS CALLED FOR ON PLAN. " MIN THICK RIM BOARD OR BASEMENT/CRAWL FOUNDATION OR 2ND CONNECT RIM TO SOLE PLATE OF WALL WITH TWO SIMPSON LTP4 OR USP MPF4 EACH FULL HEIGHT PANEL LADDER TRUSS AT FLOOR FLOOR CONDITION BASEMENT/CRAWL FOUNDATION WALL OR FIRST FLOOR WALL BELOW STEMWALL /MONOLITHIC SLAB FOUNDATION -2x P.T. PLATE WITH (2)½" DIA x 8" EMBED ANCHOR BOLTS EACH WITH A $\frac{1}{16}$ "x2"x2" PLATE WASHER CONDITION FOUNDATION STEMWALL/MONOLITHIC SLAB FOUNDATION WALL

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

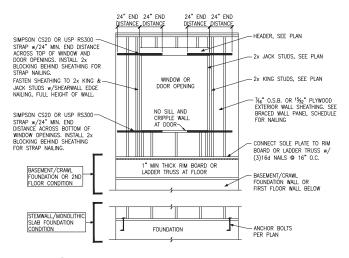
VARIES - SEE PLAN SEE PLAN SEE PLAN CONT. BEAM FULL LENGTH OF FRAME. SEE ELEVATION FOR SIZE (11½" MIN DEPTH) AND ONE CONT. 2x TOP PLATE, EXTEND - EACH END INTO ADJACENT WALL. NAIL SPLICES 8-16d NAILS PER TYPE (DIMENSIONAL LUMBER OR LVL) SPLICE/LAP. NAIL THE SHEATHING IN SHADED AREA TO BEAM WITH 8d NAILS AT 3" O.C. EACH WAY $\%_6$ " O.S.B. OR $^1\%_2$ " PLYWOOD EXTERIOR WALL SHEATHING AT UNSHADED AREAS (2) ROWS 16d NAILS AT 3" O.C SIMPSON OR USP (BEAM AND INFILL WALL). NAIL SHEATHING TO ALL SUPPORTS (STUDS, -FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES LSTA21 WITH 16-10d NAILS AT FIRST STUD SHALL BE BLOCKED AND OCCUR WITHIN 24" OF MID HEIGHT. ONE ROW OF TYP. SHEATHING-TO-FRAMING PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 12" EACH SIDE OF IS REQUIRED IN EACH PANEL OPENING $^{-7}$ /6" O.S.B. OR 15 /32" PLYWOOD EXTERIOR WALL SHEATHING. AT SHADED AREAS NAIL SHEATHING NO SILL AND CRIPPLE WALL "H" = FRAME HEIGHT VARIES-- SEE ELEVATION TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, AT BAY/DOOR ETC.) WITH 8d NAILS AT 3" O.C. WHERE FULL HEIGHT PANEL WIDTH EXCEEDS 16", PROVIDE ADDITIONAL STUDS AT 16" O.C. NAIL SHEATHING TO ALL ·(2)2x STUD MIN. AT START AND END OF WALL SEGMENTS EACH SIDE OF OPENING. IF PLANS CALL FOR MORE THAN TWO STUDS, PROVIDE STUDS WITH 8d NAILS AT 3" O.C. NUMBER OF STUDS CALLED FOR ON PLAN. 1" MIN THICK RIM BOARD OR LADDER TRUSS AT FLOOR BASEMENT/CRAWL - CONNECT RIM TO SOLE PLATE OF WALL WITH TWO SIMPSON LTP4 OR USP MPF4 EACH FULL HEIGHT PANEL FOUNDATION OR 2ND FLOOR CONDITION BASEMENT/CRAWL FOUNDATION WALL OR FIRST FLOOR WALL BELOW STEMWALL/MONOLITHIC SLAB FOUNDATION -2x p.t. plate with (2)½" dia x 8" embed anchor bolts each with a $\frac{3}{16}$ "x2"x2" plate washer CONDITION STEMWALL/MONOLITHIC SLAB FOUNDATION WALL

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

	BRACED WALI	_ PANEL AN	ND 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. <u>Engineered Alternative</u> : 16 <u>Gage By 1.75" long Staples at 3" o.c. at sheet edges and 6" o.c. at intermediate support</u>
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. <u>Engineered Alternative</u> : 16 <u>Gage by 1.75" long staples at 3" o.c. at sheet edges and 6" o.c. at intermediate support</u>
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:

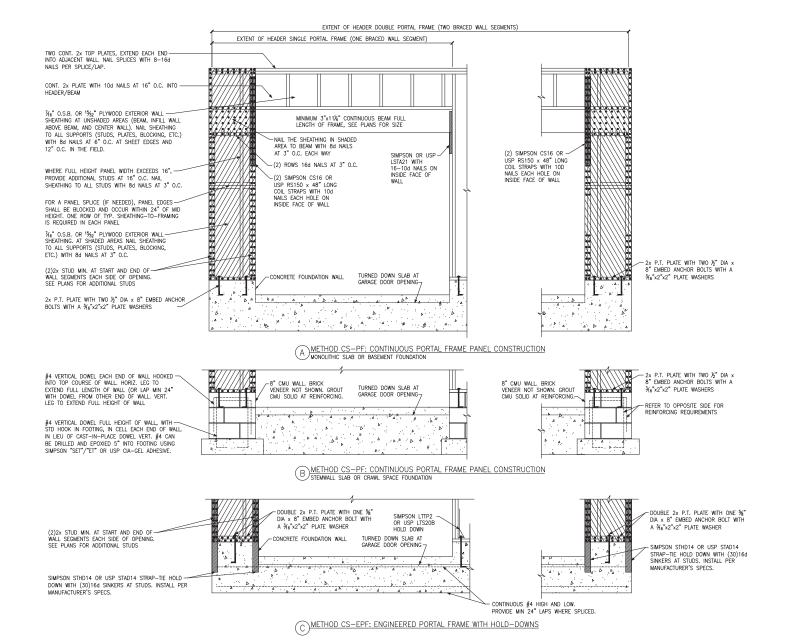
- ALL BRACED WALL PANELS, EXCEPT GB(1) & GB(2), SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES.
- PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.
- SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH 3/6" O.S.B., OR 15/32" PLYWOOD, FASTENED 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.



WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL

JEERING
AKERTOWN, PA 18951
(215) 804-4449

ENGIN S





Details #912 Model Frame Jasper Lot I Serenity, Ф. $\dot{\geq}$ Portal A668 115 Project #: 047-24012

Carolina

North

Raleigh,

Designed By:LMR Checked By:

Issue Date: 9/25/25 Re-Issue:

Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34



(2)2x6 TOP PLATE

- HEADER, SEE PLAN

2x6 SOLE PLATE







Project #: 047–24012
Designed By: LMR
Checked By:
Issue Date: 9/25/25
Re-Issue:
Scole: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

7/16" O.S.B. EXTERIOR WALL SHEATHING. SEE BRACED WALL PANEL SCHEDULE FOR NAILING -2x6 @ 12" O.C. BALLOON FRAMED WALL, SEE PLANS WINDOW OPENING WINDOW OPENING WINDOW OPENING -2x6 JACK STUD, SEE PLAN FOR QUANTITY - 2x6 KING STUD, SEE PLAN FOR QUANTITY

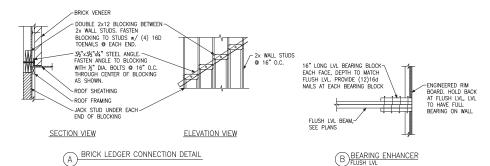
WINDOW OPENING

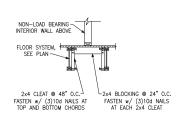
DBALLOON FRAMED WALL DETAIL N.T.S.

WINDOW OPENING

WINDOW

	WALL	STUD SIZE,	HEIGHT & SPA	ACING SCHEDU	JLE	
		BEARING	WALLS		NONBEARIN	IG WALLS
STUD SIZE	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"





C LADDER BLOCKING
AS REQUIRED @ PARALLEL WALLS

ENGINEERING

5. SUITE 201, QUAKERTOWN, PA 18951

(215) 804-4449

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Miscellaneous | Serenity, Lot #

Detail

Issue Date: 9/25/25

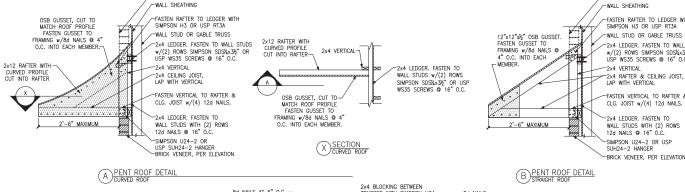
Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

Re-Issue:

Project #: 047-24012 Designed By: LMR Checked By:

A668 115 N



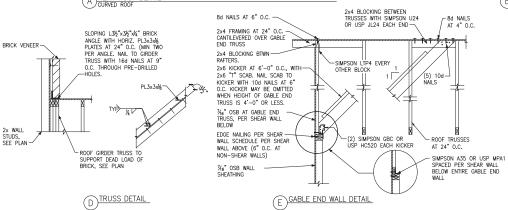


-LINE OF OPTIONAL BRICK -WALL SHEATHING FASTEN RAFTER TO LEDGER WITH -2x4 LEDGER. FASTEN TO WALL STUDS w/(2) ROWS SIMPSON SDS½x3½" OR USP WS35 SCREWS @ 16" O.C. FASTEN VERTICAL TO RAFTER & -BRICK VENEER, PER ELEVATION

TOENAIL RAFTER TO LEDGER WITH (4) 12d NAILS -2x4 LEDGER, FASTEN TO WALL STUDS w/(2) ROWS SIMPSON SDS1/4x31/2" SCREWS @ 16" O.C. -2x4 RAFTER & CEILING JOIST, LAP AND FACE NAIL WITH (4) 12d NAILS -2x4 LEDGER. FASTEN TO WALL OR GABLE TRUSS WITH (2) ROWS 12d NAILS @ 16" O.C.

-WALL STUD OR GABLE TRUSS

C EYEBROW ROOF DETAIL STRAIGHT ROOF



-LINE OF OPTIONAL BRICK

JEERING
AKERTOWN, PA 18951
(215) 804-4449

ENGINE SUITE 201, QUAKE

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Project #: 047-24012 Designed By: LMR Checked By: Issue Date: 9/25/25

A668

Raleigh,

Jasper

-MONOLITHIC CONCRETE FOOTING, SEE PLAN.

INSIDE EDGE OF MONOLITHIC FOUNDATION:

H)THICKENED SLAB

INSTALL ½" DIA. ANCHOR BOLTS w/3"x3"x4" PLATE WASHERS @ 6'-0" O.C., SEE FOUNDATION NOTES. (1) ADDITIONAL LADDER WIRE BELOW TOP BRICK COURSE CAST INTO SLAB BRICK -MASONRY 00 NOTCH BRICK @ THREADED ROD AND GROUT SOLID OUTSIDE

EDGE OF BRICK AND WALL ABOVE

M FOUNDATION SECTION
ALTERNATE EXTERIOR WALL

4" CONCRETE SLAB, SEE PLAN 4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL 95% COMPACTED SOIL MONOLITHIC CONCRETE FOOTING, SEE PLAN.

FOR BRICK TIES WEEPS, ETC. 8" MINIMUM TO GRADE, 24" MAX EXTERIOR GRADE 12" MINIMUM-BELOW GRADE

> FOUNDATION SECTION ALTERNATE EXTERIOR WALL

ISOLATED PAD FOOTING INTERIOR COLUMN

ISOLATED PAD FOOTING, SEE PLAN FOR SIZE

BRICK VENEER -SEE ARCH DWGS

000

1/4"=1'-0" @ 22x34

Slab Foundation | Lot #912 per Model Lot Monolithic Serenity,

Details

North

EXTERIOR GRADE-4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL CLASSIFIED SOIL 12" MINIMUM COMPACTED FILL COMPACTED FILL 12" MINIMUM ~ BELOW GRADE BELOW GRADE 12" MINIMUM--MONOLITHIC CONCRETE MONOLITHIC CONCRETE BELOW GRADE FOOTING w/ 4" LEDGE BRICK VENEER, SEE FOOTING, SEE PLAN. B FOUNDATION SECTION
EXTERIOR WALL @ BRICK VENEER C FOUNDATION SECTION EXTERIOR WALL AT PORCH FOUNDATION SECTION

VENEER TIES SHALL BE SPACED NOT MORE THAN

24" O.C. HORIZONTALLY AND VERTICALLY AND SHALL SUPPORT NOT MORE THAN 2 SQUARE

FEET OF WALL AREA

8" MINIMUM TO

GRADE, 30" MAX

EXTERIOR GRADE

12" MINIMUM

BELOW GRADE

VENEER TIES SHALL BE SPACED NOT MORE THAN 24" O.C. HORIZONTALLY

AND VERTICALLY AND

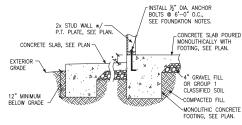
SHALL SUPPORT NOT MORE THAN 2 SQUARE

FEET OF WALL AREA

8" MINIMUM TO

GRADE, 30" MAX.

EXTERIOR GRADE-





2x STUD WALL w/ P.T. PLATE, SEE PLAN. FINSTALL ½" DIA. ANCHOR BOLTS @ 6'-0" O.C., SEE FOUNDATION NOTES. CONCRETE SLAB POURED

MONOLITHICALLY WITH

FOOTING, SEE PLAN.

2x STUD WALL w/ P.T. PLATE, SEE PLAN.

-INSTALL ½" DIA. ANCHOR BOLTS ◎ 6'-0" O.C.,

SEE FOUNDATION NOTES.

EP VARIES

FOUNDATION SECTION
EXTERIOR GARAGE WALL @ BRICK VENEER

CONCRETE SLAB POURED

MONOLITHICALLY WITH

FOOTING, SEE PLAN.

GRAVEL FILL

OR GROUP 1 CLASSIFIED SOIL

COMPACTED FILL

MONOLITHIC CONCRETE

FOOTING w/ 4" LEDGE BRICK VENEER, SEE

POST ABOVE, SEE PLAN

CONCRETE SLAB, SEE PLAN

4" GRAVEL FILL OR GROUP 1

FINSTALL ½" DIA. ANCHOR BOLTS @ 6'-0" O.C., AND VERTICALLY AND SHALL SUPPORT NOT SEE FOUNDATION NOTES. MORE THAN 2 SQUARE FEET OF WALL AREA CONCRETE SLAB POURED MONOLITHICALLY WITH FOOTING, SEE PLAN. CONCRETE SLAB, SEE PLAN EXTERIOR 4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL 12" MINIMUM COMPACTED FILL BELOW GRADE -MONOLITHIC CONCRETE FOOTING w/ 4" LEDGE BRICK VENEER, SEE

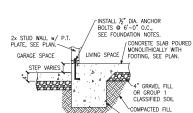
VENEER TIES SHALL BE SPACED NOT MORE THAN 24" O.C. HORIZONTALLY

FOUNDATION SECTION

EXTERIOR WALL AT PORCH W/ BRICK VENEER

2x STUD WALL w/ P.T. /-PLATE, SEE PLAN.

CONCRETE SLAB POURED RECESS @ GARAGE DOOR FOOTING SEE PLAN 4" GRAVEL FILL



OR GROUP 1 CLASSIFIED SOIL COMPACTED FILL MONOLITHIC CONCRETE FOOTING

G GARAGE DOOR SECTION

2x STUD WALL W/ P.T. PLATE, SEE PLAN. INSTALL 1/2" DIA. ANCHOR BOLTS W/ 3"x3"x14" PLATE WASHERS @ 6'-0' O.C., SEE FOUNDATION NOTES.

(1) ADDITIONAL LADDER WIRE BELOW TOP BRICK COURSE CAST INTO SLAB

THICKENED SLAB SECTION (J)INTERIOR BEARING WALL

E)FOUNDATION SECTION
EXTERIOR GARAGE WALL

2x BEARING WALL w/

P.T. PLATE, SEE PLAN

FOOTING, SEE PLAN.

CONCRETE SLAB POURED

rINSTALL ½" DIA. ANCHOR BOLTS @ 6'-0" O.C.,

SEE FOUNDATION NOTES.

FINSTALL ½" DIA. ANCHOR BOLTS @ 6'-0" O.C.,

SEE FOUNDATION NOTES

CONCRETE SLAB POURED

-4" GRAVEL FILL OR GROUP 1

CLASSIFIED SOIL

MONOLITHICALLY WITH

FOOTING, SEE PLAN.

COMPACTED FILL

-INSTALL ½" DIA. ANCHOR BOLTS @ 6'-0" O.C.,

SEE FOUNDATION NOTES

THICKENED SLAB, SEE PLAN.

MONOLITHIC CONCRETE

FOOTING, SEE PLAN,

CONCRETE SLAB POURED MONOLITHICALLY WITH FOOTING, SEE PLAN.

2x STUD WALL w/ _____ P.T. PLATE, SEE PLAN.

2x STUD WALL w/ P.T.

PLATE, SEE PLAN.

8" MINIMUM TO

GRADE, 30" MAX

EXTERIOR GRADE

12" MINIMUM

BELOW GRADE

8" MINIMUM TO

GRADE, 30" MAX

Carolina



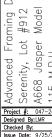
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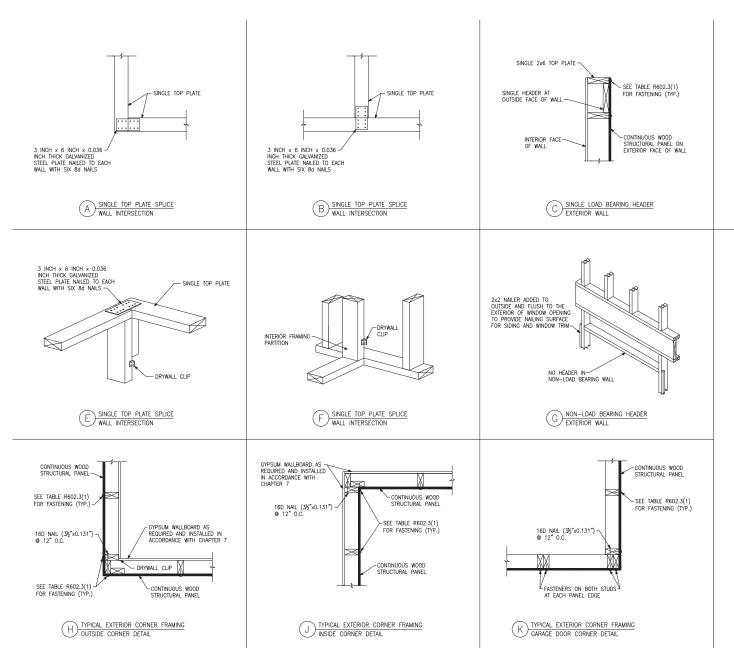


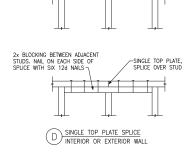


Issue Date: 9/25/25

1/4"=1'-0" @ 22x34

Re-Issue:





SINGLE TOP PLATE. SPLICE OVER STUD

3 INCH x 6 INCH x 0.036 INCH THICK GALVANIZED
STEEL PLATE NAILED TO EACH

PLATE WITH SIX 8d NAILS

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 NO 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 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.