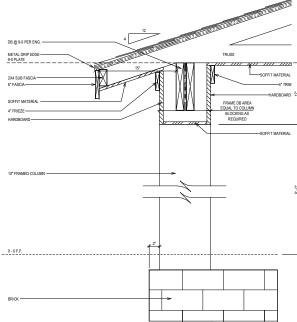
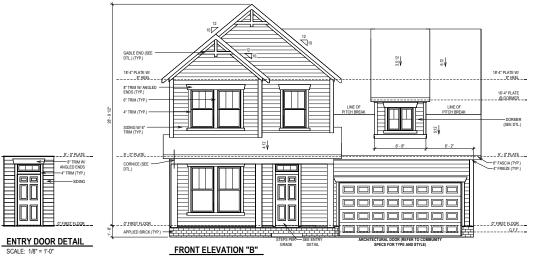
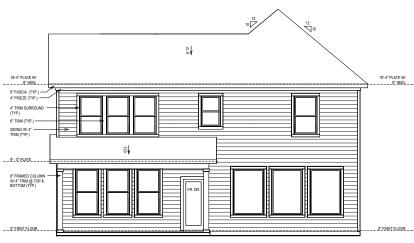


GABLE END DETAIL
SCALE: 1/2" = 1'-0"



CORNICE DTL





A670-B ELV-1 MADISON RALEIGH

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The measurements, dimension
shown on this document are go only. The actual specification
vary. This document may not
of what the completed structure

David Weekley Homes

903

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Scale:1/8"=1'-0" Rev: 4.22.25 AM

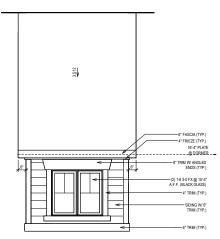
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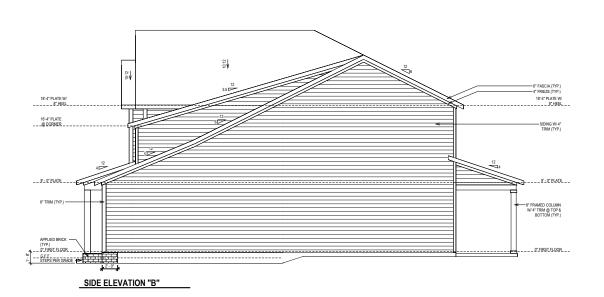
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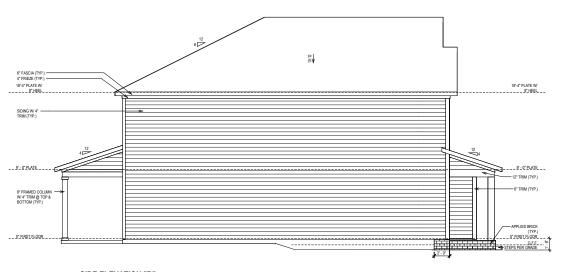
SERENITY 50' 30 RAINBROOK COVE FUQUAY VARINA, NC

REAR ELEVATION "B"



DORMER DETAIL
SCALE: 1/4" = 1'-0"





SIDE ELEVATION "B"

8

Weekley Home	Scale: 1/8"=1'-0"	1 00 0E AM
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A670-B

ELV-2

MADISON RALEIGH

## SHEET INDEX:

S-0	COVER SHEET
S-0.1	GENERAL STRUCTURAL NOTES
S-1	MONOLITHIC SLAB FOUNDATION PLAN

SECOND FLOOR FRAMING PLAN

ROOF FRAMING PLAN S-3

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

SD-3 BRACED WALL NOTES & DETAILS

SD-4 PORTAL FRAME DETAILS MISCELLANEOUS FRAMING DETAILS SD-5

SD-6 MISCELLANEOUS FRAMING DETAILS MONOLITHIC SLAB FOUNDATION DETAILS

SD-7 SD-8 NOT USED NOT USED

SD-10 NOT USED NOT USED SD-11

SD-9

SD-12 ADVANCED FRAMING DETAILS & NOTES



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

# A670 MADISON

SERENITY, LOT #903

## 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 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 CONTRAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ANY FULL ERRORS, OMISSIONS, OR MISHITERPRETAINS UNDETECTED AND NOT REPORTED TO THE 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, F<sub>8</sub>=2,325 PSI, F<sub>8</sub>=310 PSI, F<sub>6</sub>=900 PSI

  \*LVL: E=2,000,000 PSI, F<sub>8</sub>=2,600 PSI, F<sub>8</sub>=285 PSI, F<sub>6</sub>=750 PSI

  \*PSI: E=2,100,000 PSI, F<sub>8</sub>=2,900 PSI, F<sub>6</sub>=290 PSI, F<sub>6</sub>=625 PSI



David Weekley Homes

Carolina Cover Sheet Serenity, Lot #903 A670 Madison Model 115 M.P.H. Raleigh, North 115



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

Project #: 047-24017

- 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 DURY STABLE IN ITS COMPLETED THE OFFICE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION STABLE THE STRUCTURE OF THE SER IS NOT RESPONSIBLE FOR FOR CONSTRUCTION SERVICES, METHODS, ON TECHNIQUES IN CONNECTION WITH THE CONSTRUCTION.
- 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
- VALUES: E=1,400,000 PSI, F<sub>b</sub>=875 PSI, F<sub>v</sub>=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 PLOMBI 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 MA 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:

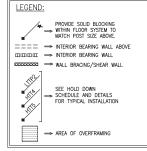
  1. STRUCTURAL SITEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS
- ALL STEEL SHALL HAVE A MINIMUM YIELD 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) 1/8" 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*
	E NOT DESIGNED TO BE BOLTEI JNLESS SPECIFIED ON UNIT PLA	WS.
SPANS OVER	A'_O" SHALL BE SHORED LIP	LINTH CHRED



Not Model 903 Structural # ity, Lot # Madison .H. North σ.

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Homes

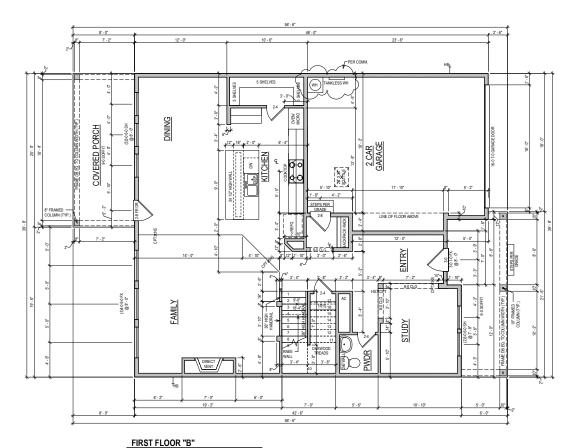
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Weekl

David 7

Serenity, gh, General  $\geq$ A670 115 Ral Project #: 047-24017 Designed By: LMR

Checked By: Issue Date: 5/5/25 Re-Issue: Scale: 1/8"=1'-0" @ 11v17 1/4"=1'-0" @ 22x34



GENERAL REQUIREMENTS
SURES SURLIFEQUEREMENTS
ALPATOS NO SURLIF HENCOT
GRAGGELORY TO BE SUPED 16 THE POT TOWNS NEAL ENTRY
ROCK DECAS AND ALCOMES TO BE SURPORT OF THE PRESTOT TOWNS NEAL ENTRY TO BE SURPORT OF THE PRESTOT TOWNS NEAL THE PRESTOT TOWNS NEAR THE PRESTOT TOWNS NEAR THE PRESTOR THE PRESTO

FINSED HANDRAL HEIGHT BETVERN 34" AND 35" MEASJRED NEI NOSING FINSHED GUARDRALS REQUIRED MT DECKS, BALCONES AND VIK GREATER AGONG GROCE AND BE AT A MINIMAM OF 35" IN HIGHT

 Week key Homes L.P. 20.
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NORTH A670-B PLN-1 MADISON RALEIGH

David PTJDPJS/KC	9 - 0" UNLESS NOTED OTHERWISE Proj. No.: Lot. 903 Davi 3294 Block: PTJPIJSIKI	9' - 0" UNLE Proj. No.: 3294 Job No.:	SERENITY 50' 30 RAINBROOK COVE FUQUAY VARINA, NC	770 SF 98 SF 68 SF	98 SF 48 SE
NOTE: ALL 1ST FLB. CELLING HEIGHTS	TELE CELL	OTE: ALL 19		1:	1 1
$\neg$		9	SQFT		
	0	COOKTOP W/ BUILT-IN OVEN/MICRO			
		FIREPLACE @ FAMILY BACKPACK RACK	FIREPL		
		COVERED PORCH		OR OR VINC	OR

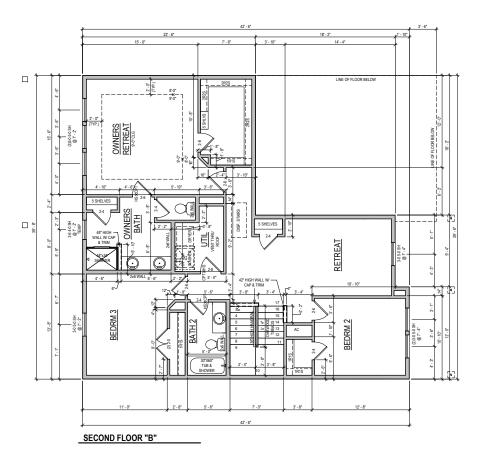
1270 SF 1232 SF 160 SF 141 SF 460 SF 3263 SF

Lot: 903	Plock:	DIOCK.
Proj. No.:	3234 	0903 0903

3	PT	Č
Fot:	Block:	Sect
Proj. No.: 3294	Job No.:	0903

eklev Hom	Scale:1/8"=1'-0"	Rev: 4.22.25 AM
David Weeklev Hom	PT/JP/JS/KC	/2024
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ley Homes



ADVANCED FRAMING: 2X6 EXTERIOR PERIMETER WALLS & ALL INSULATED WALLS UNLESS NOTED OTHERWISE NOTE: ALL 2ND FLR. CEILING HEIGHTS 8' - 0" UNLESS NOTED OTHERWISE

David Weekley Homes 903 Lot:

Week key Homes L.P.
The measurements, dimension, and other sp. only. The country and other sp. only. The Section of the country. The Section of the country. The Section of the country of the Section of the sp. of that the country.

Scale:1/8"=1'-0" Rev: 4.22.25 AM

PT/JP/JS/KC Date: 12/02/2024

Block: Proj. No.: 3294 Job No.: 0903

SERENITY 50' 30 RAINBROOK COVE FUQUAY VARINA, NC

A670-B PLN-2 MADISON RALEIGH





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

KEYNOTES:

(2)#4 x 4'-0" LONG BARS AT 3" O.C., CENTERED IN SLAB, TYP. WHERE SHOWN 11)



Plan



MONOLITHIC SLAB FOUNDATION PLAN

42'-6" 56'-6"

11)/

10'-0"

3'-8"

56'-6"

2'-6"

23'-6"

16" WIDE x 20" DEEP-MONOLITHIC CONCRETE FOOTING. PROVIDE 6" STEM @ GARAGE. GARAGE SLAB 4" THICK CONCRETE SLAB w/ FIBERMESH PER MANUFACTURER OR 6x6 W1.4xW1.4 WELDED WIRE MESH ON 6 MIL VAPOR BARRIER

TURNDOWN -SLAB @ OPENING

~1'-10"

\$6. Q.

-4" THICK CONCRETE SLAB w/ FIBERMESH PER MANUFACTURER OR

6x6 W1.4xW1.4 WELDED WIRE MESH ON 95% COMPACTED FILL.

ON 95% COMPACTED FILL. SLOPE 1/8" PER 1'-0" TOWARDS DOOR.

14'-3"

16" WIDE x

20" DEEP MONOLITHIC

CONCRETE FOOTING (TYP.)

(TYP. ® L BRICK L VENEER) SD-7

54'-0"

11'-3"

SLAB ON GRADE

4" THICK CONCRETE SLAB w/ FIBERMESH PER

MANUFACTURER OR 6x6 W1.4xW1.4 WELDED WIRE MESH ON 6 MIL VAPOR BARRIER ON 95% COMPACTED FILL.

8" DEEP x 16" WIDE THICKENED

22'-6"

11'-3"

16" WIDE x 20" DEEP MONOLITHIC CONCRETE

FOOTING (TYP.)

11'-3"

4" THICK CONCRETE

SLAB w/ FIBERMESH
PER MANUFACTURER OR
6x6 W1.4xW1.4 WELDED
WIRE MESH ON 95%

COMPACTED FILL.

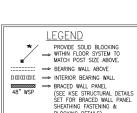
8'-0"

50.

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E, SUITE 201, QUAKERTOWN, PA 18951
com (215) 804-449

KSE



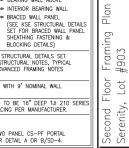


REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES, TYPICAL DETAILS AND ADVANCED FRAMING NOTES AND DETAILS

PLAN DESIGNED WITH 9' NOMINAL WALL PLATE HEIGHT

FLOOR FRAMING TO BE 16" DEEP TJI 210 SERIES OR EQUAL, SPACING PER MANUFACTURER.

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





SECOND FLOOR FRAMING PLAN

2x6 @ 12" O.C. BALLOON FRAMED WALL

48" WSP

C==

2 CAR

GARAGE ROOF TRUSSES @ 24"

134"x16" LVL FLUSH

ENTRY

STUDY

START JOIST LAYOUT
HERE ® 19.2" O.C.
DIMENSION IS TO
FRONT FACE OF JOIST

HANGERS
PER TRUSS
SUPPLIER
(TYP.)

HANGERS PER JOIST SUPPLIER

PWDR

(2)1%"×11%" [

(2)2x8<sup>-J</sup>

(2)2x8

HUC28-2

2x6 LEDGER w/ (3) ROWS 12d NAILS @ 16" O.C.

(TYP.)

ROOF TRUSSES @ 24" O.C.

RUCTURAL COLUMN, INSTALL PER

MANUFACTURER'S

SPECIFICATIONS (TYPICAL)

VALLEY SEI TO TRUSSES @ 24" TO FORM FALSE DORMER

STRUCTURAL COLUMN BY OTHERS WITH MIN. 2,000 LB. CAPACITY. INSTALL PER MANUFACTURER'S

HINSTRUCTIONS.

(2)2x8

2x6 LEDGER S w/ (3) ROWS 12d NAILS @

COVERED PORCH

(2)2x8

SIMPSON-HUC28-2 (TYP.) 16" O.C.-ROOF TRUSSES @ 24 0.C.

START JOIST LAYOUT
HERE @ 19.2" O.C. 77
DIMENSION IS TO
RIGHT FACE OF JOIST

48" WSP

RIM BOARD

FAMILY

<u>----</u>

KITCHEN

48" WSP

115 M.P.H. Raleigh, North Carolina

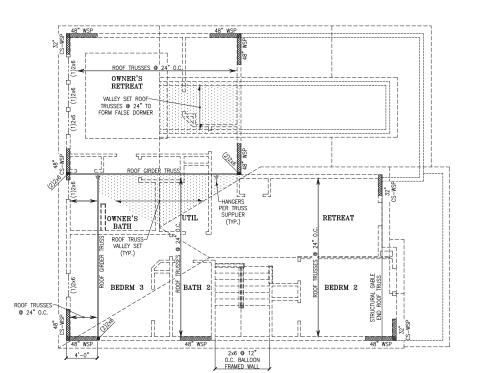
A670 Madison Model

Project #: 047-24017
Designed By:LMR
Checked By:

Issue Date: 5/5/25 Re-Issue:

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KSE



ROOF FRAMING PLAN



PROVIDE SOLID BLOCKING

WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.

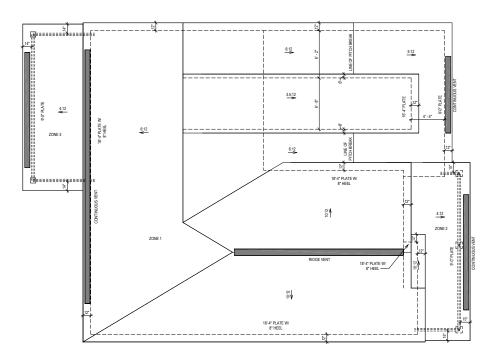
⇒ BEARING WALL ABOVE

□□□□□□ ⇒ 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

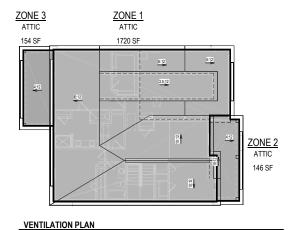
PLAN DESIGNED WITH 8' NOMINAL WALL PLATE HEIGHT

115 M.P.H. Raleigh, North Carolina Roof Framing Plan Serenity, Lot #903 A670 Madison Model Project #: 047–24017
Designed By:LMR
Checked By:
Issue Date: 5/5/25
Re-Issue:
Scale: 1/8"=1"-0" @ 11x17
1/4"=1"-0" @ 22x34



ROOF PLAN "B"

-	ATTIC	VEN	TILA	TIOI	N - B 1	W/ OPT.	COV	/ERED F	ORCH	ł
NET F	REE VENTI	LATED AF	REA		EXHAUST V	ENTS	PRIM	ARY INTAKE	ACT VENTIL/	
NFVA	AREA SF X	144 / RA	TIO		TALL NO MO HIGHEST P	RE THAN 3' DINT OF ZONE		ILL IN LOWER RD OF ZONE	EXHAUST EXCEED	
					٧	ENTS		VENTS		
ZONE	AREA	VENT	MIN	REQ	SIZE	COUNT	SIZE	COUNT	EXHAUST %	INTAKE
		INATIO	MEVA		SQIN	EA or LF	SQIN	EA or LF	"	
ZONE 1	1720 SF	300	826	Yes	18	22	10	43	48%	52%
ZONE 2	146 SF	150	140	No	0	0	10	15	0%	100%
ZONE 3	154 SF	150	148	No	0	0	10	15	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 OTHERWISE.

ALIGN FASCIA TO MAINTAIN CONSISTENT OVERHANG WITH DIFFERING ROOF PITO

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

ACTUAL ATTIC VENTILATION MAY VARY, VERIFY IN THE FIELD

Week key Homes L.P. 2024

The measurement, dimensions, and other specifications when on the discussive seguidisations only. The sexual specifications of the finished secusion use only. The actual specifications of the finished seculars may of what the completed studies will not fine.

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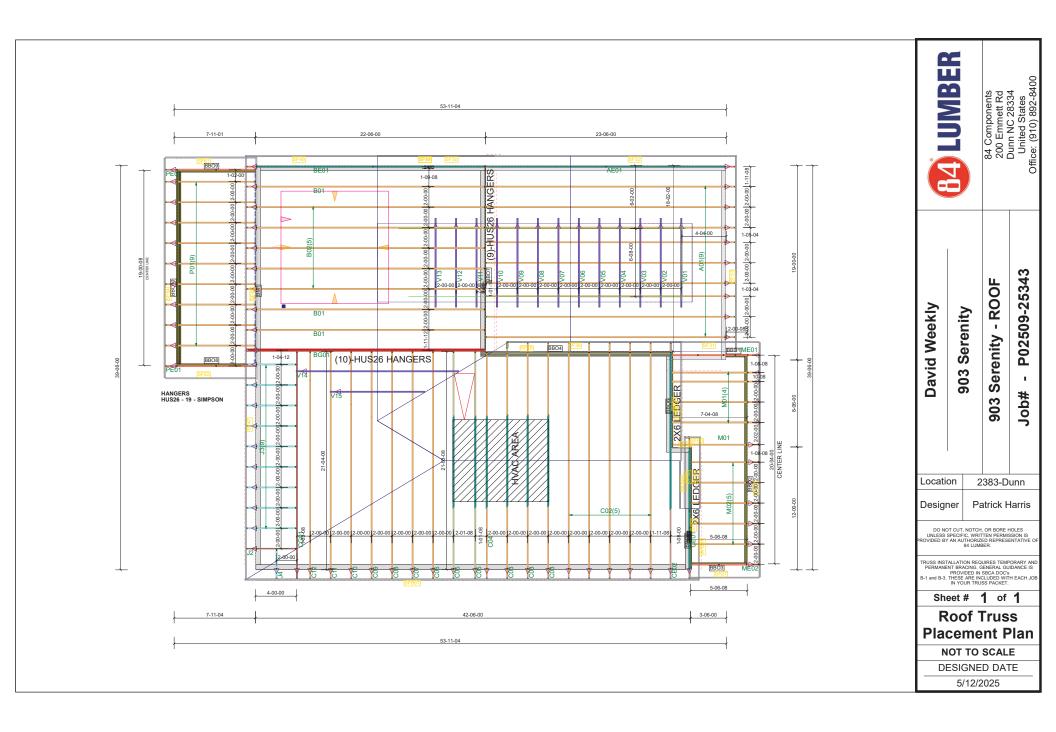
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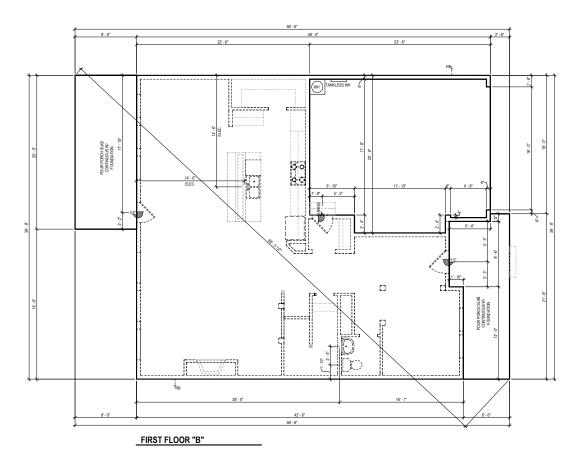
State: 12/02/2024 Rev: 4.22.25 AM

903 Sect:

SERENITY 50' 30 RAINBROOK COVE FUQUAY VARINA, NC

NORTH A670-B RFP-1 MADISON RALEIGH





SEE ENGINEERING FOR ANCHOR BOLT REQUIREMENTS

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The measurement Limention, and her specifications show on the decirated are gladelines for construction use. The actual specification of the inheid structure may vary. This document may not be relied on as a representation of what the completed structure will look like.

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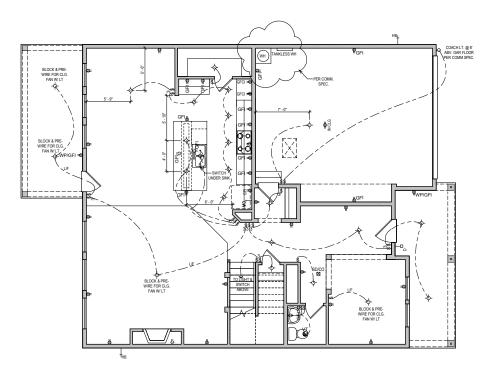
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 Date: 12/02/2024
 Rev: 4.22.25 AM

3294 Lot: 903
3294 Block:
Job No.: Block:
0903 Sect:

SERENITY 50' 30 RAINBROOK COVE FUQUAY VARINA, NC

NORTH A670-B FS-1 MADISON RALEIGH



FIRST FLOOR "B"



## MID-ATLANTIC General Notes

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

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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Lot:

Proj. No.: 3294 Job No.: 0903

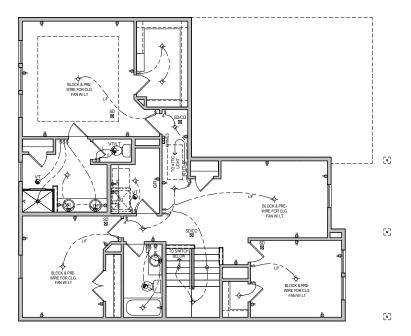
SERENITY 50' 30 RAINBROOK COVE FUQUAY VARINA, NC

Scale:1/8"=1'-0" Rev: 4.22.25 AM

PT/JP/JS/KC Date: 12/02/2024

UTI	LITY LEGEND
<b>d</b>	110V OUTLET 12" A.F.F. (U.N.O.) GROUND FAULT INTERRUPTOR
GFI	(WEATHER PROOF AS NOTED)
₩ •	HALF HOT OUTLET
Ф	220V OUTLET (36° A.F.F. @ UTILITY)
•	PHONE LINE
Υф	CABLE TELEVISION
\$	STANDARD SWITCH (3 OR 4 WAY AS NOTED)
÷	SURFACE MOUNTED LIGHT
♣ <sub>LED</sub>	SURFACE MOUNTED LED DISC LIGHT
Q	WALL MOUNTED LIGHT
VT	RECESS CAN LIGHT (EYEBALL AS NOTED)
•	EXHAUST VENT
SD M P	SMOKE DETECTOR (CARBON MONOXIDE AS NOTED) DOOR BELL
CHIMES	DOOR BELL
ELEC.	CHIMES PANELBOARD W/ CIRCUIT
нв <sub>†</sub>	BREAKERS HOSE BIB
GAS	GAS TAP
T†	COLD/HOT WATER SUPPLY
f	ELEVATOR CALL BUTTON





SECOND FLOOR "B"



MID-ATLANTIC General Notes

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

JUNCTION BOX

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

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

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

5. PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.

6. LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.



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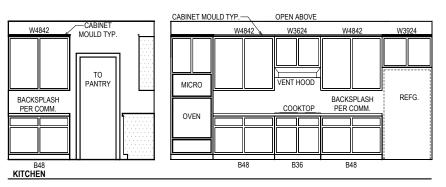
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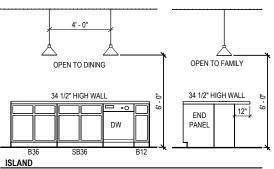
SERENITY 50' 30 RAINBROOK COVE FUQUAY VARINA, NC

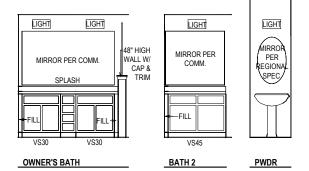
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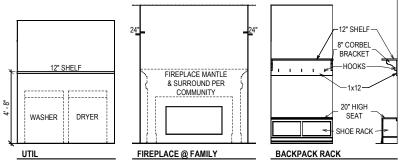
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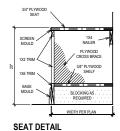
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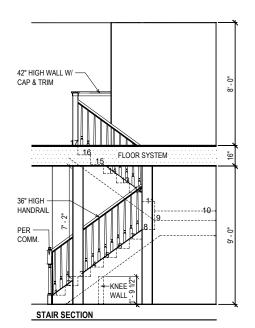








SCALE: 3/4" = 1'-0"





903

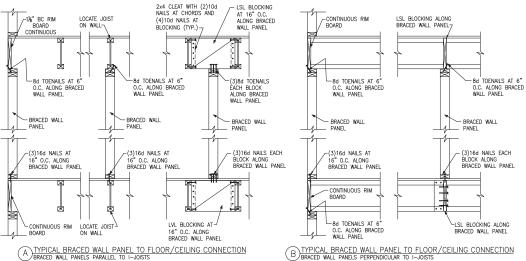
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Proj. No.: 3294 Job No.: 0903

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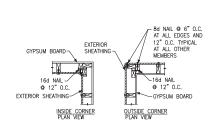


B TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION BRACED WALL PANELS PERPENDICULAR TO I-JOISTS

1/2" (MIN) GYPSUM WALLBOARD. FASTEN TO WALL ALL SUPPORTS (STUDS, PLATES, BLOCKING) WITH 1.25" TYPE W SCREWS AT 7" O.C. (OR 5d COOLER NAILS AT 7" O.C.) 2x4 BLOCKING BTWN 2x6 FULL HEIGHT STUD AT WALL INTERSECTION -(2x8 STUD AT VERTICAL WALL STUDS AT ALL HORIZONTAL GYPSUM BRACED SHEATHING JOINTS. INTERSECTING 2x6 WALL) 3-STUD WALL "T" PLATE WALL INTERSECTION

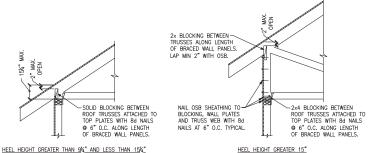
> BRACED WALL INTERSECTIONS MAY BE FRAMED USING EITHER THE 3-STUD OR THE T-PLATE METHOD

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



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.

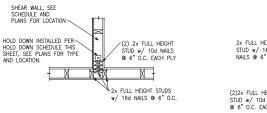


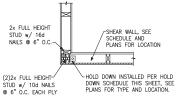
E ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS ONLY REQUIRED AT BRACED WALL PANELS

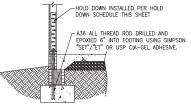


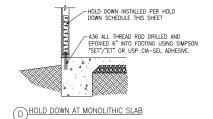


Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34









# A TYPICAL HOLD DOWN DETAIL

-HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET

(E)HOLD DOWN AT CRAWL FOUNDATION

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

A36 ALL THREAD ROD-

SIMPSON CNW1/2 OR USP CNW12-ZP COUPLER NUT

GROUT CMU SOLID AT ALL THREAD ROD-

B TYPICAL HOLD DOWN DETAIL

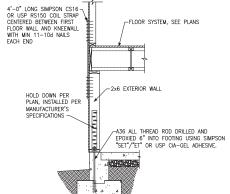
4'-0" LONG SIMPSON CS16 OR USP RS150 COIL STRAP CENTERED BETWEEN FIRST

FLOOR WALL AND KNEEWALL WITH MIN 11-10d NAILS EACH END

HOLD DOWN PER PLAN, INSTALLED PER MANUFACTURER'S

SPECIFICATIONS

(C)HOLD DOWN AT STEMWALL SLAB



-FLOOR SYSTEM, SEE PLANS -2x6 EXTERIOR WALL -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

C HOI	D DOWN AT FOUNDATION  LITHIC TURN-DOWN
/ E /110E	D DOMIN AL LOUNDALION
\	I ITHIC TURN-DOWN

HOLD DOWN SCHEDULE					
HOLD DOWN		ALL TREAD ROD	FASTENERS		
SIMPSON	USP	THE THE HOD	TASTERERS		
LTTP2	LTS20B	½" DIA.	(10)10d NAILS		
HTT4	HTT16	%" DIA.	(18)16dx2½" LONG NAILS		
HTT5	HTT45	%" DIA.	(26)16dx2½" LONG NAILS		

A670 Madison Lot H.

Carolina

North

Raleigh,

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 $\approx$ Notes #903 Wall Braced Wa

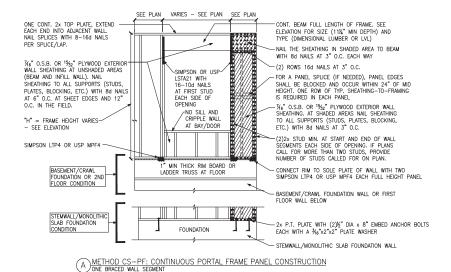
Details

115 Project #: 047-24017 Designed By: LMR Checked By:

Issue Date: 5/5/25

Re-Issue:

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



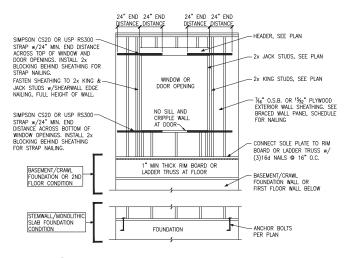
ONE CONT. 2x TOP PLATE, EXTEND EACH END INTO ADJACENT WALL. NAIL SPLICES 8-16d NAILS PER SPLICE/LAP.  7/4" O.S.B. OR 15/2" PLYWOOD EXTERIOR WALL SHEATHING AT UNSHADED AREAS (BEAM AND INFILL WALL). NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. IN THE FIELD. "H" = FRAME HEIGHT VARIES" - SEE ELEVATION WHERE FULL HEIGHT PANEL WIDTH EXCEEDS 16", PROVIDE ADDITIONAL STUDS AT 16" O.C. NAIL SHEATHING TO ALL STUDS WITH 8d NAILS AT 3" O.C.  BASEMENT/CRAWIL FOUNDATION OR 2ND FLOOR CONDITION	SIMPSON OR USP LSTAZ! WITH 16-104 NAILS AT FIRST STUD EACH SIDE OF OPENING NO SILL AND CRIPPLE WALL AT BAY/DOOR 1" MIN THICK RIM BOARD OR LADDER TRUSS AT FLOOR CONNING CONNIN	BEAM FULL LENGTH OF FRAME. SEE  ION FOR SIZE (11½" MIN DEPTH) AND  (DIMENSIONAL LUMBER OR LVL)  HE SHEATHING IN SHADED AREA TO  WITH 80 NAILS AT 3" O.C. EACH WAY  DWS 160 NAILS AT 3" O.C. EACH WAY  DWS 160 NAILS AT 3" O.C.  PANEL SPLICE (IF NEEDED), PANEL EDGES  BE BLOCKED AND OCCUR WITHIN 24" OF MID  ONE ROW OF TYP. SHEATHING-TO-FRAMING  UNERD IN EACH PANEL  S.B. OR 196." PLYWOOD EXTERIOR WALL  HING, AT SHOED AREAS MAIL SHEATHING  LISUPPORTS (STUDS, PLATES, BLOCKING,  WITH 80 NAILS AT 3" O.C.  STUD MIN, AT TART AND END OF WALL  NISS EACH SIDE OF OPENING. IF PLANS  FOR MORE THAN TWO STUDS, PROVIDE  IF OF STUDS CALLED FOR ON PLAN.  COT RIM TO SOLE PLATE OF WALL WITH TWO  ON LTP4 OR USP MPF4 EACH FULL HEIGHT PANEL  ENT/CRAWI, FOUNDATION WALL OR FIRST
STEMWALL/MONOLITHIC SLAB FOUNDATION CONDITION	FLOOR  2x P.1  FOUNDATION  2x P.1	MALL SELOW WITH (2)½" DIA x 8" EMBED ANCHOR BOLTS WITH A 3% x2"x2" PLATE WASHER MALL/MONOLITHIC SLAB FOUNDATION WALL

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

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 SUPPOR		
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:

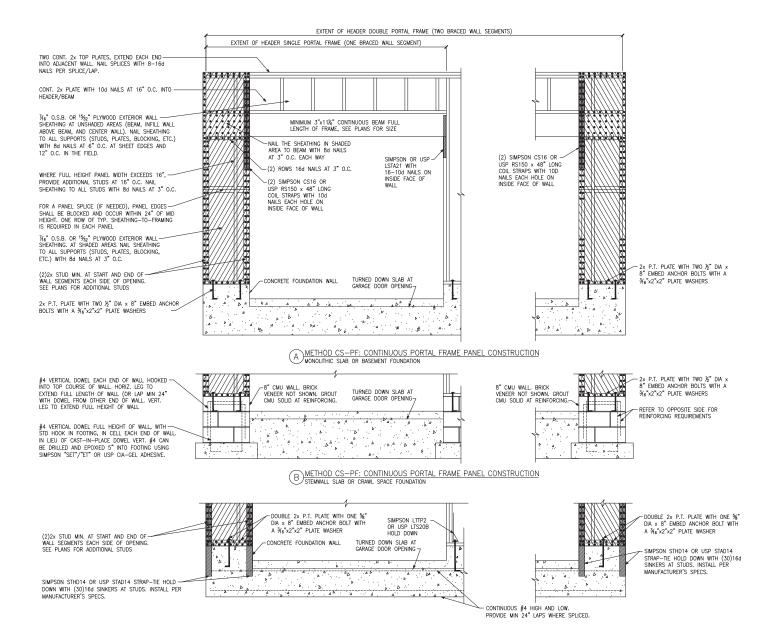
- ALL BRACED WALL PANELS, EXCEPT GB(1) & GB(2), SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES.
- 2. PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.
- SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH 1/46" O.S.B., OR 15/32" PLYWOOD, FASTENED 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 ONLY REQUIRED WHERE SPECIFIED ON PLANS

JEERING
AKERTOWN, PA 18951
(215) 804-4449

ENGINE S





Details #903 n Model A670 Madison Frame Lot Д. Н. Serenity,  $\dot{\geq}$ Portal 115 Project #: 047-24017

Carolina

North

Raleigh,

Designed By:LMR Checked By: Issue Date: 5/5/25

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

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

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

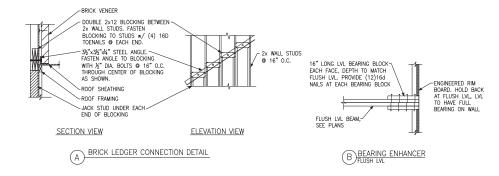


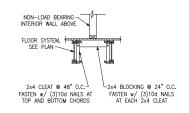




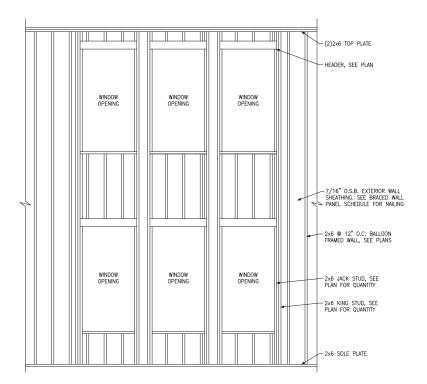


Project #: 047–24017
Designed By:LMR
Checked By:
Issue Date: 5/5/25
Re-Issue:
Scole: 1/8"=1"-0" @ 11x17
1/4"=1"-0" @ 22x34





C LADDER BLOCKING
AS REQUIRED ® PARALLEL WALLS



DBALLOON FRAMED WALL DETAIL N.T.S.

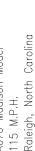
WALL STUD SIZE, HEIGHT & SPACING SCHEDULE						
	BEARING WALLS				NONBEARING WALLS	
STUD SIZE	LATERALLY UNSUPPORTED STUD HEIGHT	MAXIMUM SPACING WHEN SUPPORTING A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY, ONLY	MAXIMUM SPACING WHEN SUPPORTING ONE FLOOR, PLUS A ROOF-CEILING ASSEMBLY OR A HABITABLE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

ENGINEERING

5. SUITE 201, QUAKERTOWN, PA 18951

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

Re-Issue:

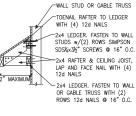
Issue Date: 5/5/25

Project #: 047-24017 Designed By: LMR Checked By:

115

Framing #903 Miscellaneous | | Serenity, Lot # A670 Madison

Detail



-LINE OF OPTIONAL BRICK

FASTEN RAFTER TO LEDGER WITH SIMPSON H3 OR USP RT3A

-2x4 LEDGER. FASTEN TO WALL STUDS w/(2) ROWS SIMPSON SDS½x3½" OR USP WS35 SCREWS @ 16" O.C.

─WALL STUD OR GABLE TRUSS

-2x4 RAFTER & CEILING JOIST, LAP WITH VERTICAL

FASTEN VERTICAL TO RAFTER &

CLG. JOIST w/(4) 12d NAILS.

WALL STUDS WITH (2) ROWS 12d NAILS @ 16" Ò.Ć.

-2x4 LEDGER, FASTEN TO

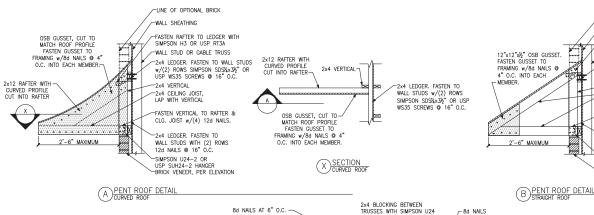
SIMPSON U24-2 OR USP

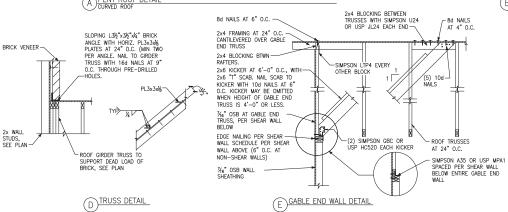
SUH24-2 HANGER -BRICK VENEER, PER ELEVATION

-WALL SHEATHING

-2x4 VERTICAL

C EYEBROW ROOF DETAIL STRAIGHT ROOF





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ENGINE SUITE 201, QUAKE

S

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.

4" GRAVEL FILL

CLASSIFIED SOIL

COMPACTED FILL

-MONOLITHIC CONCRETE

FOOTING w/ 4" LEDGE BRICK VENEER, SEE

OR GROUP 1



Details





Checked By: Issue Date: 5/5/25

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

Project #: 047-24017

Designed By: LMR

115

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Ξ.

Carolina North Raleigh,

INSIDE EDGE OF MONOLITHIC INSTALL ½" DIA. ANCHOR BOLTS w/3"x3"x4" PLATE WASHERS @ 6'-0" O.C., SEE FOUNDATION:

FOUNDATION SECTION

EXTERIOR WALL AT PORCH W/ BRICK VENEER

FINSTALL ½" DIA. ANCHOR BOLTS ⊕ 6'-0" O.C., SEE FOUNDATION NOTES.

LIVING SPACE

CONCRETE SLAB POURED

MONOLITHICALLY WITH FOOTING, SEE PLAN.

-4" GRAVEL FILL OR GROUP 1

CLASSIFIED SOIL

COMPACTED FILL

-MONOLITHIC CONCRETE FOOTING, SEE PLAN.

H)THICKENED SLAB

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

AND VERTICALLY AND SHALL SUPPORT NOT

FEET OF WALL AREA

CONCRETE SLAB, SEE PLAN

2x STUD WALL w/ P.T.

STEP VARIES

3333

PLATE, SEE PLAN.

GARAGE SPACE

EXTERIOR

12" MINIMUM

BELOW GRADE

MORE THAN 2 SQUARE

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

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

SEE FOUNDATION NOTES.

CONCRETE SLAB POURED

4" GRAVEL FILL

OR GROUP 1 CLASSIFIED SOIL

COMPACTED FILL

MONOLITHIC CONCRETE FOOTING

FOOTING SEE PLAN

CONCRETE SLAB POURED

MONOLITHICALLY WITH FOOTING, SEE PLAN.

4" GRAVEL FILL

CLASSIFIED SOIL

COMPACTED FILL

MONOLITHIC CONCRETE FOOTING, SEE PLAN.

OR GROUP 1

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

RECESS @ GARAGE DOOR

B

C FOUNDATION SECTION EXTERIOR WALL AT PORCH

CONCRETE SLAB, SEE PLAN

EXTERIOR

12" MINIMUM

BELOW GRADE

GRADE

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

G GARAGE DOOR SECTION

12" MINIMUM-

FOUNDATION SECTION ALTERNATE EXTERIOR WALL

ISOLATED PAD FOOTING, SEE PLAN FOR SIZE

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

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

SEE FOUNDATION NOTES.

B FOUNDATION SECTION
EXTERIOR WALL @ BRICK VENEER

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

CONCRETE SLAB POURED

MONOLITHICALLY WITH

4" GRAVEL FILL OR GROUP 1

CLASSIFIED SOIL

COMPACTED FILL

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

-MONOLITHIC CONCRETE

FOOTING w/ 4" LEDGE BRICK VENEER, SEE

FOOTING, SEE PLAN.

ISOLATED PAD FOOTING

INTERIOR COLUMN

BRICK VENEER -SEE ARCH DWGS CONCRETE SLAB, SEE PLAN MONOLITHIC CONCRETE BELOW GRADE FOOTING, SEE PLAN.

FOUNDATION NOTES. (1) ADDITIONAL LADDER WIRE BELOW TOP BRICK COURSE CAST INTO SLAB BRICK -MASONRY 00 000 NOTCH BRICK @ THREADED ROD AND GROUT SOLID OUTSIDE EDGE OF BRICK AND WALL ABOVE

M FOUNDATION SECTION
ALTERNATE EXTERIOR WALL

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

> THICKENED SLAB SECTION ( J )INTERIOR BEARING WALL

FINSTALL ½" DIA. ANCHOR BOLTS @ 6'-0" O.C., 2x STUD WALL w/ P.T. SEE FOUNDATION NOTES PLATE, SEE PLAN. 8" MINIMUM TO GRADE, 30" MAX

12" MINIMUM BELOW GRADE

FOOTING, SEE PLAN. EXTERIOR GRADE -COMPACTED FILL

MONOLITHIC CONCRETE FOOTING, SEE PLAN,

MONOLITHICALLY WITH

CONCRETE SLAB POURED

-4" GRAVEL FILL OR GROUP 1

CLASSIFIED SOIL

E)FOUNDATION SECTION
EXTERIOR GARAGE WALL

FOUNDATION SECTION

VENEER TIES SHALL BE SPACED NOT MORE THAN 24" O.C. HORIZONTALLY AND VERTICALLY AND SHALL SUPPORT NOT MORE THAN 2 SQUARE rINSTALL ½" DIA. ANCHOR BOLTS @ 6'-0" O.C., FEET OF WALL AREA SEE FOUNDATION NOTES. 8" MINIMUM TO GRADE, 30" MAX. EXTERIOR GRADE-12" MINIMUM ~ BELOW GRADE

4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL COMPACTED FILL

FOOTING, SEE PLAN.

CONCRETE SLAB POURED MONOLITHICALLY WITH FOOTING, SEE PLAN.

GRADE, 30" MAX

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

8" MINIMUM TO

EXTERIOR GRADE-12" MINIMUM--MONOLITHIC CONCRETE BELOW GRADE

ENGINEERING

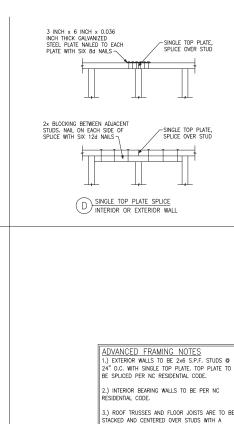
5. SUITE 201, QUAKERTOWN, PA 18951

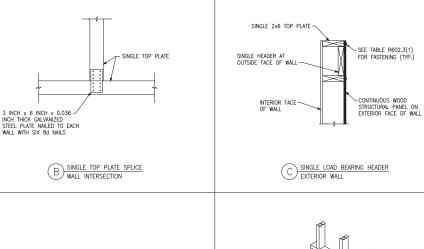
(215) 804-4449

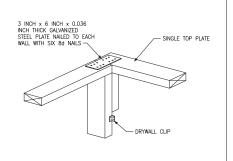
S











SINGLE TOP PLATE SPLICE

WALL INTERSECTION

3 INCH x 6 INCH x 0.036 -INCH THICK GALVANIZED

CONTINUOUS WOOD

STRUCTURAL PANEL

SEE TABLE R602.3(1)

FOR FASTENING (TYP.)

16D NAIL (3½"x0.131") -

SEE TABLE R602.3(1)

@ 12" O.C.

STEEL PLATE NAILED TO EACH WALL WITH SIX 8d NAILS

SINGLE TOP PLATE



GYPSUM WALLBOARD AS REQUIRED AND INSTALLED IN

CONTINUOUS WOOD

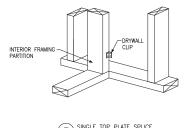
STRUCTURAL PANEL

- DRYWALL CLIP

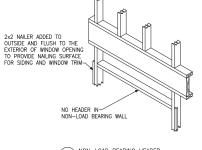
TYPICAL EXTERIOR CORNER FRAMING

OUTSIDE CORNER DETAIL

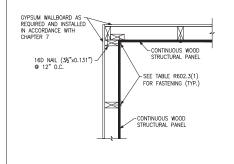
ACCORDANCE WITH CHAPTER 7



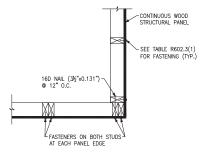
SINGLE TOP PLATE SPLICE WALL INTERSECTION



NON-LOAD BEARING HEADER (G) NUIN-LU-







TYPICAL EXTERIOR CORNER FRAMING GARAGE DOOR CORNER DETAIL

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.



Project #: 047-24017 Designed By:LMR Checked By: Issue Date: 5/5/25

Re-Issue: 1/4"=1'-0" @ 22x34