

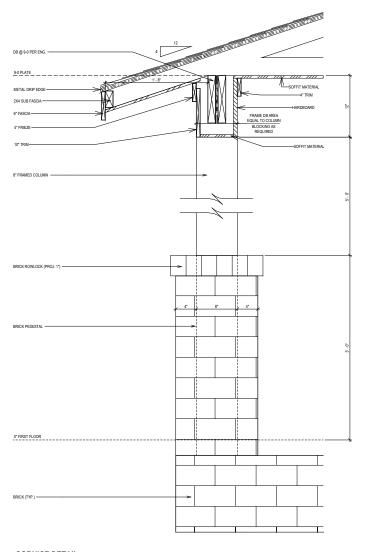


David Weekley Homes Scale:1/8"=1'-0" Rev: 2/19/25 EB PT/AAS/JF/JL Date: 11/18/2024

Lot: 1032 Proj. No.: 3293 Job No.: 1032

SERENITY 43' 121 RESTFUL POINT FUQUAY VARINA, NC

A610-B ELV-2 SPRINGHILL RALEIGH



SCALE: 1" = 1'-0"

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SERENITY 43' 121 RESTFUL POINT FUQUAY VARINA, NC

A610-B ELV-3 SPRINGHILL RALEIGH

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

# A610 SPRINGHILL

SERENITY, LOT #1032

# 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.C. SEFORE CONSTRUCTION BEGINS. IT IS THE INTENT OF THE ENGINEER LISTED ON THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO REVIEW ALL OF THE INFORMATION CONTRACTED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE TO FOR ANY PLAN DRAFORS, OMISSIONS, OR MISHITERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PROOF TO CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS.

#### DESIGN SPECIFICATIONS:

DESIGN BUILDING CODE (REFERRED TO HEREIN AS 'THE BUILDING CODE'):

- 2018 NORTH CAROLINA RESIDENTIAL CODE. WALL BRACING PER INTERNATIONAL RESIDENTIAL

CODE 2015 EDITION.

\*\*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

ENGINEERING F. SUITE 201, QUAKERTOWN, PA 18951

David Weekley Homes

Cover Sheet Serenity, Lot #1032 A610 Springhill Model North

115 Project #: 047-24010

Designed By: JPS Checked By: Issue Date: 5/7/25

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 DUCKMENTS WITHOUT WRITEN CONSENT OF RESE ENGINEERING P.C. OR THE SER. FOR THE PURPOSES OF THESE CONSTRUCTION DOCUMENTS, THE SER AND KSE ENGINEERING SHALL BE CONSIDERED THE SAME ENTITY. THE STRUCTURE IS OWNLY STABLE IN TSO COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACKING DURING CONSTRUCTION TO STABILIZE THE STRUCTURE.
- METHODS, OR TECHNIQUES IN CONNECTION WITH THE CONSTRUCTION OF THIS STRUCTURE. THE SER WILL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT

THE CONTROLLOR'S PALLORE TO COMPORANT OF THE CONTROL.

DOCUMENTS, SHOULD ANY NON-CONFORMITIES OCCUR.

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

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 ENDINEERING 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 ENDINEERING, 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 FINDINGETHING, P.C. BEFORE 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 STRUCTURE
  LELMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE
  ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
- ELEMENTS SPECIFICALET NOTICE ON THE STRUCTURE DRAWNINGS.
  THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL
  APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL
  CODES OR RESTRICTIONS.
  DO NOT SCALE DRAWNINGS. 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 THE GEOTECHNICAL ENGINEER ON THE STUDY OF THE PROPOSED SITE TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL 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
- 16" 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 SUBGRADE 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.
- WITHIN THE HIST IEN FEEL.

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

  14. 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 ADMIXTURES 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 USED IN LIEU OF WWW.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.
- 10. 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.
- DEFALLING, 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
- # DEMO: 43 LEUNIH SERVICE THE SHALL BE EQUIRED, THEY SHALL BE EQUIVALENT IN SIZE AND SPACING TO THE VERTICAL REINFORCEMENT. THE DOWEL SHALL EXTEND 48 BAR DAMETERS VERTICALLY AND 20 BAR DAMETERS INTO THE FOOTING. SEE KSE 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 HAN 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 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530/ASCE 5/TMS 402 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1 / ASCE 6/TMS 602
- SPECIFICATIONS FOR MASONRY STRUCTURES ACT 530.17 ASCE 6/IMS 802. 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., UNLESS 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), UNLESS HERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGNED
- SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING MINIMUM DESIGN
- 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 NAILED TO EDGE OF EACH STUD.
  FACE NAIL ALL MULTI-PLY BEAMS AND HEADERS WITH (2) ROWS 16d 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 LINERS 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. 24" O.C. STUD SPACING: (1) STUD UP TO 4' OPENING 16" O.C. STUD SPACING: (1) STUD UP TO 3' 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 THERWISE 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 1. "NATIK DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION"
- THE TRUSS MANUFACTURER SHALL PROVIDE ADEQUATE BRACIN 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 THE CONTROLLOR RESPONSIBLE FOR HISTAGLING ALL PERMANENT TRUSS BRACING SHOWN IN THE STRUCTURAL DRAWINGS AND IN THE TRUSS DESIGNS. ALL CONTINUOUS LATERAL BRACING OF WEBS REQUIRES BRACES, REFET TO BCSI SUMMARY SHEET BS FOR TYPES OF DIAGONAL BRACES TO PROVIDE AT EACH CONTINUOUS LATERAL BRACE LINE. SUCH BRAUGE TO PROVIDE SHALL NOT BE SPACED MORE THAN 20 FEET O.C. DIGONAL BRACES SHALL NOT BE SPACED MORE THAN 20 FEET O.C. DIGONAL BRACES SHALL BE FASTEN. WHERE CONTINUOUS LATERAL BRACING CANNOT BE INSTALLED, DIE TO A MINIMUM OF THREE ADJACENT TRUSSES NOT BEING IDENTICAL, HE CONTRICTOR SHALL BRACING CANNOT BE INSTALLED, DIE TO A MINIMUM OF THREE ADJACENT TRUSSES NOT BEING IDENTICAL, HE CONTRICTOR 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 WEBS 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
- 10. 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 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 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 SLITABLE EDGE SUPPORT BY LISE OF PANEL END JOINTS SHALL OCCUR OVER FRAMING.
- 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 SITEL 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

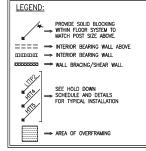
- UNLESS OTHERWISE NOTED.
  WELDING SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWA D1.1 ELECTRODES FOR SHOP AND FIELDING WELDING SHALL BE CLASS 570XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS. ALL STEEL BEAMS TO BE 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) 35" 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 ASTIM 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 SCHEDULE								
SPAN	LINTEL SIZE	END BEARING						
UP TO 3'-0"	3½"×3½"×¼"	4*						
UP TO 6'-3"	5"x3½"x516" L.L.V.	8"						
UP TO 9'-6"	6"x3½"x5(6" L.L.V.	12"						
LINTELS ARE NOT DESIGNED TO BE BOLTED TO HEADERS UNLESS SPECIFIED ON UNIT PLANS.								
SPANS OVE	R 4'-0" SHALL BE SHORED UP	UNTIL CURED.						



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Structural

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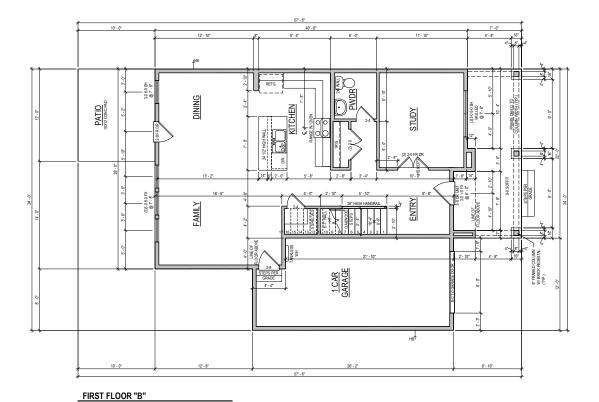
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David 7

Carolina Serenity, Lot #1032 A610 Springhill Model .H. North ₽. gh,  $\stackrel{\cdot}{\geq}$ Ē

General 115 Project #: 047-24010 Designed By: JPS Checked By:

Issue Date: 5/7/25 Re-Issue: Scale: 1/8"=1'-0" @ 11v17 1/4"=1'-0" @ 22x34



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

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

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The measurements, climentions, and other specifical show on this document are agoldelines for construction. The actual specifications of the finished structure. Year, This document may be relieded on as a reper of what the completed structure will look like.

David Weekley Homes

1032

Lot:

Scale:1/8"=1'-0" Rev: 2/19/25 EB

PT/AAS/JF/JL Date: 11/18/2024

Block:

Proj. No.: 3293 Job No.: 1032

SERENITY 43' 121 RESTFUL POINT FUQUAY VARINA, NC

### **GENERAL REQUIREMENTS**

GARAGE FLOOR TO BE SLOPED 1/8" PER FOOT TOWARDS VEHICLE ENTRY DOOR ROOF DECKS AND BALCONIES TO BE SLOPED 1/4" PER FOOT TOWARDS RELIEF POINTS

### RAILING REQUIREMENTS FINISHED HANDRAIL REQUIRED AT STAIRS WITH 4 OR MORE RISERS

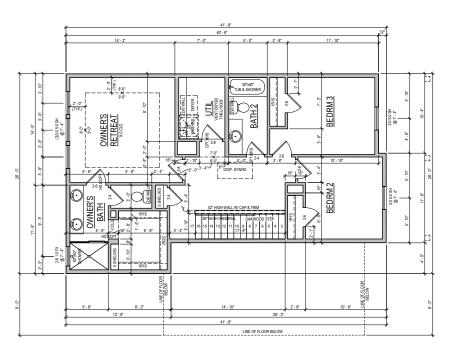
FINISHED GUARDRAILS REQUIRED AT DECKS, BALCONIES AND WALKWAYS THAT ARE 30° OR GREATER ABOVE GRADE AND BE AT A MINIMUM OF 36° IN HEIGHT

FINISHED GUARDRAIL AND HANDRAIL SPINDLES MUST BE SPACED SO A 4° SPHERE WILL NOT PASS THROUGH

2ND FLOOR	961 SF
TOTAL LIVING	1914 SF
SLAB	
1ST FLOOR	950 SF
FRONT PORCH	167 SF
GARAGE	297 SF
PATIO	120 SF
TOTAL SLAB	1534 SF
FRAMING	
1ST FLOOR	950 SF
2ND FLOOR	916 SF
FRONT PORCH	167 SF
GARAGE	297 SF

PLAN SQFT - B

1914 SF	
950 SF	south `
167 SF	
297 SF	IA610-B
120 SF	I HO I U-D
1534 SF	PLN-1
950 SF	SPRINGHILL
916 SF	OI INITOTILE
167 SF	RALEIGH
297 SF	
2330 SF	



SECOND FLOOR "B"

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

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

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SERENITY 43' 121 RESTFUL POINT FUQUAY VARINA, NC

David Weekley Homes

Lot: 1032

Block:

Proj. No.: 3293 Job No.: 1032

Scale:1/8"=1'-0" Rev: 2/19/25 EB

PT/AAS/JF/JL Date: 11/18/2024

SOUTH
A610-B
PLN-2
SPRINGHILL
RALEIGH





■ BRACED WALL PANEL

(SEE KSE STRUCTURAL DETAILS

SET FOR BRACED WALL PANEL

SHEATHING FASTENING & BLOCKING DETAILS) ⇒ CONTROL JOINT

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

KEYNOTES:

48" WSP

10'-0"

4" THICK CONCRETE SLAB w/ FIBERMESH PER MANUFACTURER OR 6x6 W1.4xW1.4 WELDED WIRE MESH ON 95% COMPACTED FILL.

48 - 3/4

10'-0"

S).

8'-6"

-16" WIDE x 20" DEEP

MONOLITHIC CONCRETE

FOOTING (TYP.)

12'-8"

40'-8"

ISLAB (TYP.)

57'-8"

MONOLITHIC SLAB FOUNDATION PLAN

12'-4"

8'-6"

SLAB ON GRADE

4" THICK CONCRETE

SLAB w/ FIBERMESH PER MANUFACTURER OR

30"x30"x12"

DEEP CONCRETE FOOTING

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

7'-0"

313

4" THICK CONCRETE SLAB W/ FIBERMESH PER MANUFACTURER OR 6x6 W1.4xW1.4 WELDED WIRE

MESH ON 95% COMPACTED FILL.

22'-0"

2'-1½" 8'-3" 1'-7½"

12'-0"

11'-4"

16" WIDE x 20" DEEP-

MONOLITHIC CONCRETE FOOTING (TYP.)

TURNDOWN— SLAB @ OPENING

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. SLOPE 1/8" PER 1'-0" TOWARDS DOOR.

16" WIDE x 20" DEEP MONOLITHIC CONCRETE FOOTING.
PROVIDE 6" STEM @ GARAGE.

26'-2"

(TYP. @ BRICK

VENEER)

11)-

2'-10"

5). Z.

8'-10"

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





Monolithic Slab Foundation P Serenity, Lot #1032 A610 Springhill Model

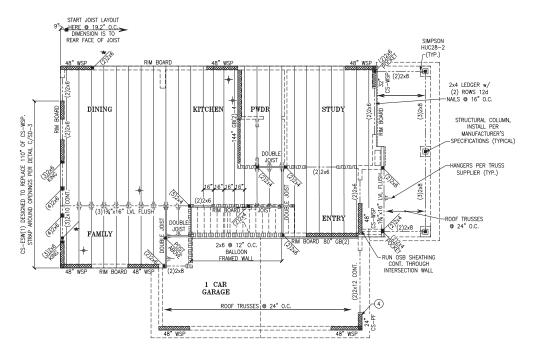
Plan

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

115 M.P.H. Raleigh, North Carolina

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

KSE



SECOND FLOOR 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 9' NOMINAL WALL PLATE HEIGHT

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

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



115 M.P.H. Raleigh, North Carolina Second Floor Framing Serenity, Lot #1032 A610 Springhill Model Project #: 047-24010 Designed By:JPS Checked By:

Plan

Framing

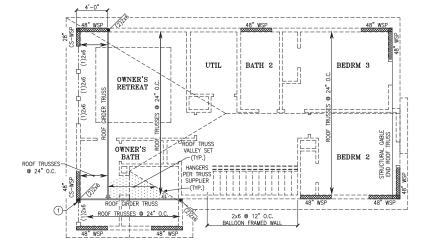
Issue Date: 5/7/25 Re-Issue:

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

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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 48" WSP

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

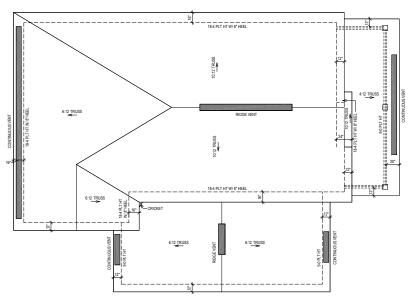
#### KEYNOTES:

 AT RAISED FLOOR BELOW, CONNECT STUD AT END OF BRACED WALL PANEL TO FRAMING BELOW WITH A ANEL TO FRAMING BELOW WITH A
30" LONG SIMPSON CS20 COIL
STRAP WITH MIN 8-10d NAILS EACH
END. AT SLAB FOUNDATION BELOW,
CONNECT STUD TO FOUNDATION w/ SIMPSON DTT1Z W/ SIMPSON 36"x6"
TITEN HD SCREW ANCHOR AND 3½"
MINIMUM EMBEDMENT.

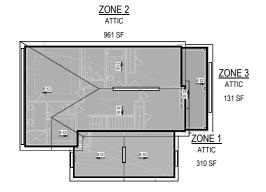
Roof Framing Plan Serenity, Lot #1032 A610 Springhill Model

115 M.P.H. Raleigh, North Carolina Project #: 047-24010 Designed By: JPS Checked By:

Issue Date: 5/7/25
Re-Issue:
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34



## ROOF PLAN "B"



			Α.	TTIC	VEN	TILATIO	N - B	,		
NET FREE VENTILATED AREA		NET FREE VENTILATED AREA EXHAUST VENTS		PRIMARY INTAKE		ACTUAL VENTILATION %				
NFVA	AREA SF X	(144 / RA	по		ALL NO MOI HIGHEST PI	RE THAN 3' OINT OF ZONE		LL IN LOWER D OF ZONE	EXHAUS: EXCEED	
	VENTS			ENTS	VENTS		\\			
ZONE	AREA RATIO NEVA	VENT MIN			SIZE	COUNT	EXHAUST	INTAKE		
KATIO			SQIN	EA or LF	SQIN	EA or LF		, n		
ZONE 1	310 SF	300	149	Yes	18	4	10	8	47%	53%
ZONE 2	961 SF	300	461	Yes	18	12	10	25	46%	54%
ZONE 3	131 SF	150	126	No	0	0	10	13	0%	100%

**VENTILATION PLAN "B"** 

# TRUSS ROOF NOTES

ALL OVERHANGS PER PLAN MEASURED FROM OUTSIDE FACE OF FRAME.

GABLE OVERHANGS 12" UNLESS NOTED OTHERWISE

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.

Weekley Homes L.P.
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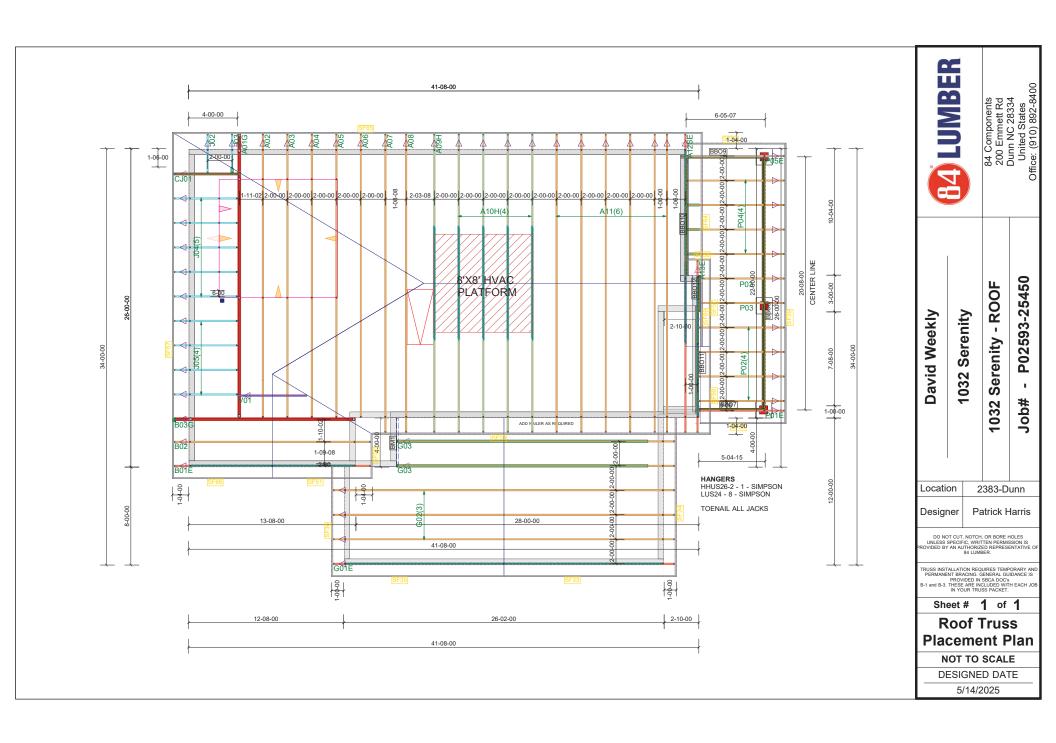
David Weekley Homes Scale:1/8"=1'-0" Rev: 2/19/25 EB

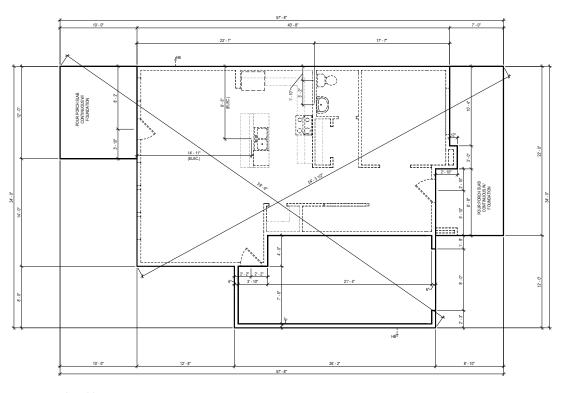
Lot: 1032 Proj. No.: 3293 Job No.: 1032

SERENITY 43' 121 RESTFUL POINT FUQUAY VARINA, NC

A610-B RFP-1 SPRINGHILL

RALEIGH





FIRST FLOOR "B"

SEE ENGINEERING FOR ANCHOR BOLT REQUIREMENTS

Weeklay Homes L.P. 2024
 The measurest, dimention, and note a policiation above no into document are guidelines for contruction are only. The example interference of the document may not be reliefed on as a presentation of what the completed distuden will look like.

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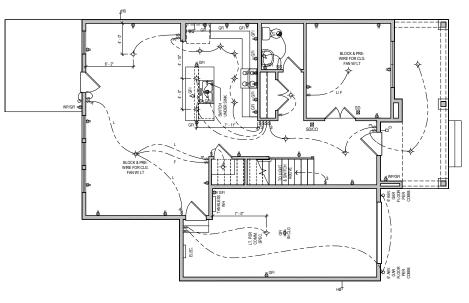
 PTIAASJJFJUL
 Scale: 11/18"=1"-0"

 Date: 11/18/2024
 Rev: 2/19/25 EB

3293 Lot; 1032 3293 Block: 1032 Sect:

SERENITY 43' 121 RESTFUL POINT FUQUAY VARINA, NC

SOUTH
A610-B
FS-1
SPRINGHILL
RALEIGH



FIRST FLOOR "B"

Weekkey Homes LP. 2024
The measurements chemonous, and other specification shown in this occurred registering to construction only. The studie specification is glidely in this had also seen in the construction of the studies of the second into the thin instead seen of the studies of the second into the second in the s

Scale:1/8"=1'-0" Rev: 2/19/25 EB

David Weekley Homes UTILITY LEGEND ELEVATOR CALL BUTTON

PT/AAS/JF/JL Date: 11/18/2024 1032 Lot:

Proj. No.: 3293 Job No.: 1032

SERENITY 43' 121 RESTFUL POINT FUQUAY VARINA, NC

RECESS CAN LIGHT
(EYEBALL AS NOTED) VT EXHAUST VENT HALF HOT OUTLET SD SMOKE DETECTOR (CARBON MONOXIDE AS NOTED)
DOOR BELL ₫ 220V OUTLET (36" A.F.F. @ UTILITY) ▼ PHONE LINE CHIMES DOOR BELL
CHIMES
CHIMES
PANELBOARD W/
CIRCUIT
HB BREAKERS
HOSE BIB - SURFACE MOUNTED LIGHT GAS GAS TAP - SURFACE MOUNTED LED LED DISC LIGHT CW HW COLD/HOT WATER SUPPLY Q WALL MOUNTED LIGHT JUNCTION BOX

VT/LT RECESSED CAN/ EXHAUST VENT COMBO

110V OUTLET 12" A.F.F. (U.N.O.)

IN ALL HABITABLE ROOMS LIGHT BOXES MUST BE FAN RATED

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

### **MID-ATLANTIC General Notes**

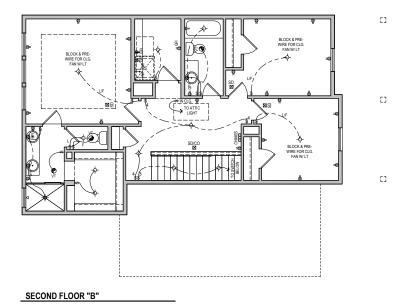
2. SWITCH FOR ATTIC LIGHT TO BE LOCATED OUTSIDE OF ATTIC SPACE, 12 INCHES FROM CEILING.

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

5. PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.

6. LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.





UTILITY LEGEND 110V OUTLET 12" A.F.F. (U.N.O.) ELEVATOR CALL BUTTON RECESS CAN LIGHT (EYEBALL AS NOTED) VT EXHAUST VENT HALF HOT OUTLET SD SMOKE DETECTOR (CARBON MONOXIDE AS NOTED)
DOOR BELL ₫ 220V OUTLET (36" A.F.F. @ UTILITY) ▼ PHONE LINE CHIMES DOOR BELL
CHIMES
CHIMES
CHIMES
CHIMES
CHIMES
CIRCUIT
BREAKERS
HOSE BIB CABLE TELEVISION - SURFACE MOUNTED LIGHT GAS GAS TAP - SURFACE MOUNTED LED LED DISC LIGHT CW HW COLD/HOT WATER SUPPLY Q WALL MOUNTED LIGHT

CITY SPECIFIC

VT/LT RECESSED CAN/ EXHAUST VENT COMBO

JUNCTION BOX

IN ALL HABITABLE ROOMS LIGHT BOXES MUST BE FAN RATED

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

### **MID-ATLANTIC General Notes**

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

 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.

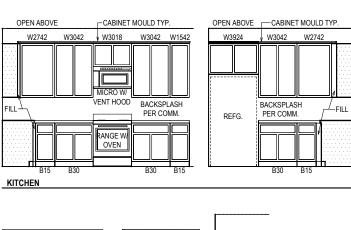
Week key Homes L     The measurements, dimensions, and off shown on this document are guidelines only. The actual specifications of the fr	of what the completed structure will look	_
David Weekley Homes    David Weekley Homes	Scale: 1/8"=10"	0/40/05 17
David Wee	PT/AAS/JF/JL	1000,01,11

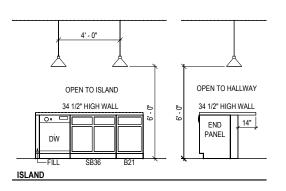
Proj. No.: 1032		Job No.: Block:	1032 Sect.
SERENITY 43'	121 RESTFUL POINT	FUQUAY VARINA, NC	

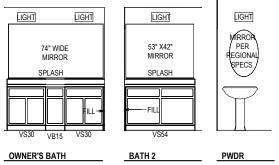
A610-B

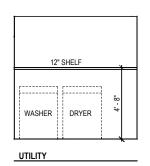
ELE-2

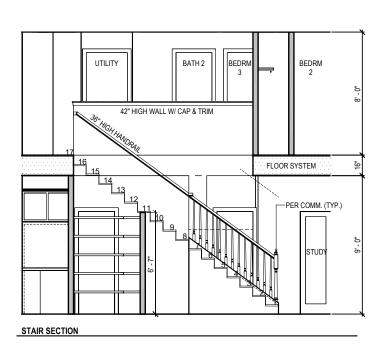
RALEIGH

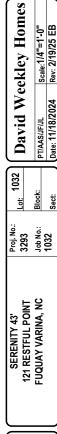












Scale:1/4"=1'-0" Rev: 2/19/25 EB







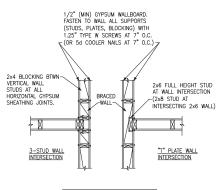






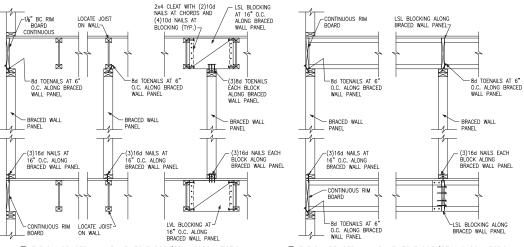






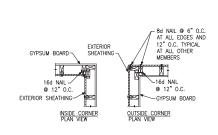
BRACED WALL INTERSECTIONS MAY BE FRAMED USING EITHER THE 3-STUD OR THE T-PLATE METHOD

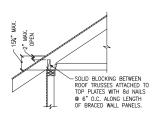
© METHOD GB(1) AND GB(2) INTERSECTION DETAILS

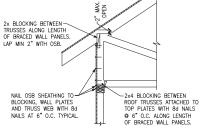


A TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION BRACED WALL PANELS PARALLEL TO I-JOISTS

BTYPICAL 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"

# D TYPICAL EXTERIOR CORNER WALL FRAMING

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

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



Project #: 047-24010 Designed By: JPS Checked By: Issue Date: 5/7/25 Re-Issue:

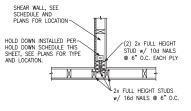
Braced Wall Details Serenity, Lot #1032 A610 Springhill Model

Carolina

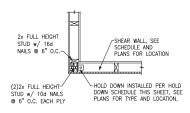
Raleigh, North

115



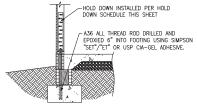




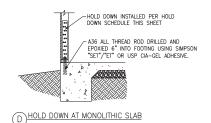


# B TYPICAL HOLD DOWN DETAIL

4'-0" LONG SIMPSON CS16-







4'-0" LONG SIMPSON CS16-OR USP RS150 COIL STRAP CENTERED BETWEEN FIRST FLOOR SYSTEM, SEE PLANS FLOOR WALL AND KNEEWALL WITH MIN 11-10d NAILS EACH END -2x6 EXTERIOR WALL HOLD DOWN PER PLAN, INSTALLED PER MANUFACTURER'S SPECIFICATIONS -A36 ALL THREAD ROD DRILLED AND EPOXIED 6" INTO FOOTING USING SIMPSON "SET"/"ET" OR USP CIA-GEL ADHESIVE. 400000

G HOLD DOWN AT FOUNDATION STEM WALL

HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET	OR USP RS150 COIL STRAP CENTRERD BETWEEN FIRST FLOOR WALL AND KNEEWALL WITH MIN 11-10d NAILS EACH END
A36 ALL THREAD ROD SIMPSON CNW1/2 OR USP CNW12-ZP COUPLER NUT GROUT CMU SOLID AT ALL THREAD ROD DRILLED AND EPOXIED 6" INTO FOOTING USING SIMPSON "SET"/"ET" OR USP CIA-GEL ADHESIVE.	HOLD DOWN PER PLAN, INSTALLED PER MANUFACTURER'S SPECIFICATIONS  A36 ALL THREAD ROD DRILLED AND EPOXIED 6" INTO FOOTING USING SIMPSON "SET"/"ET" OR USP CIA-GEL ADHESIVE.
E HOLD DOWN AT CRAWL FOUNDATION	F)HOLD DOWN AT FOUNDATION MONOLITHIC TURN-DOWN

	I	HOLD DOWN	SCHEDULE
HOLD DOWN SIMPSON USP ALL TREAD ROD FASTENERS		FASTENERS	
LTTP2	LTS20B	½" DIA.	(10)10d NAILS
HTT4	HTT16	%" DIA.	(18)16dx2½" LONG NAILS

HTT45

%" DIA.

HTT5



(26)16dx21/5" LONG NAILS

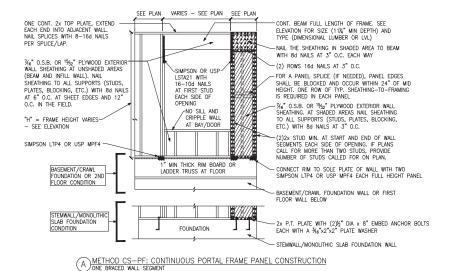
Carolina

North

Details

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





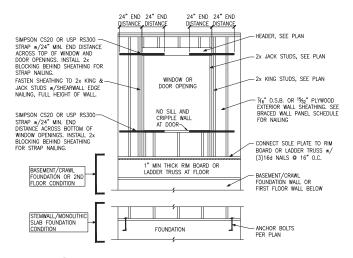
ONE CONT. 2x TOP PLATE, EXTEND EACH END INTO ADJACENT WALL. NAIL SPLICES 8-16d NAILS PER SPLICE/LAP.  34," O.S.B. OR 135," PLYMOOD EXTENIOR WALL SHEATHING AT UNSHADED AREAS (BEAM AND INFILE WALL). NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 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	SEE PLAN VARIES — SEE PLAN SEE PLAN  CONT. BEAM FULL LENGTH OF FRAME. SEE ELEVATION FOR SIZE (11½" MIN DEPTH) AND TYPE (DIMPSIONAL LUMBER OR L'V.)  NAIL THE SHEATHING IN SHADED AREA TO BEAM WITH 8d NAILS AT 3" O.C. EACH WAY  (2) ROWS IS RIG MAILS AT 3" O.C. EACH WAY  (2) ROWS IS RIG MAILS AT 3" O.C. EACH WAY  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 IS REQUIRED IN EACH PANEL  AT BAY/DOOR  AT BAY/DOOR  AT BAY/DOOR  TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 3" O.C.  ECC.) WITH 8d NAILS AT 3" O.C. EACH WAY  CRIPPLE WALL SECRIFICS EACH SIDE OF OPENING, IF PANES
STUDS WITH 8d NAILS AT 3" O.C.  BASEMENT/CRAWL FOUNDATION OR 2ND FLOOR CONDITION  STEMMALL/MONOLITHIC SLAB FOUNDATION CONDITION	CALL FOR MORE THAN TWO STUDS, PROVIDE  I'MIN THICK RIM BOARD OR  LADDER TRUSS AT FLOOR  CONNECT RIM TO SOLE PLATE OF WALL WITH TWO SIMPSON LTP4 OR USP MPF4 EACH FULL HEIGHT PANEL  BASEMENT/CRAWL FOUNDATION WALL OR FIRST FLOOR WALL BELOW  2x P.T. PLATE WITH (2)½" DIA x 8" EMBED ANCHOR BOLTS EACH WITH A 3½"x2"x2" PLATE WASHER  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</u> <u>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</u> <u>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 1/46" O.S.B., OR 15/22" 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

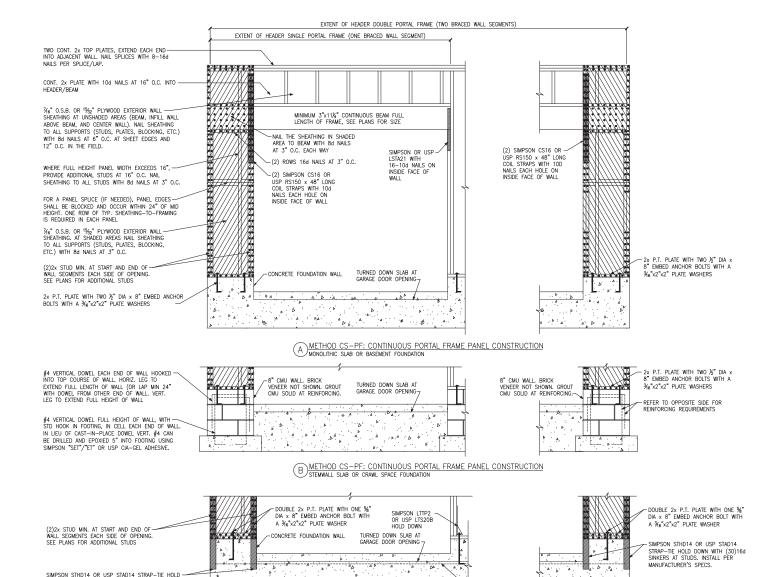








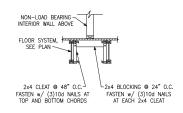




CONTINUOUS #4 HIGH AND LOW PROVIDE MIN 24" LAPS WHERE SPLICED.

DOWN WITH (30)16d SINKERS AT STUDS. INSTALL PER

MANUFACTURER'S SPECS.



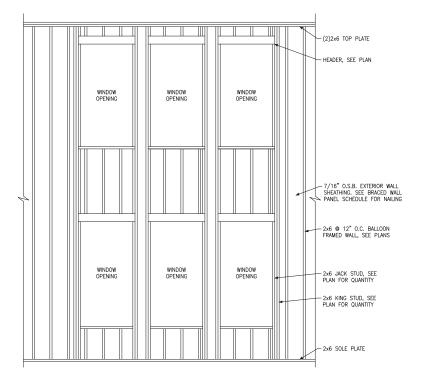
-BRICK VENEER

-ROOF SHEATHING -ROOF FRAMING - JACK STUD UNDER EACH-END OF BLOCKING

SECTION VIEW

TOENAILS @ EACH END.

C LADDER BLOCKING
AS REQUIRED ® PARALLEL WALLS



BALLOON	FRAMED	WALL	DETAIL
DBALLOON N.T.S.			

WALL STUD SIZE, HEIGHT & SPACING SCHEDULE									
	NONBEARIN	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"			



Project #: 047–24010
Designed By: UPS
Checked By:
Issue Dote: 5/7/25
Re-Issue:
Scole: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

Miscellaneous Framing Details
Serenity, Lot #1032
A610 Springhill Model
115 M.P.H.

Raleigh, North Carolina

ENGINEERING
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(COM (215) 804-449

KSE

David Weekley Homes

ENGINEERING

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Miscellaneous Framing I Serenity, Lot #1032 A610 Springhill Model

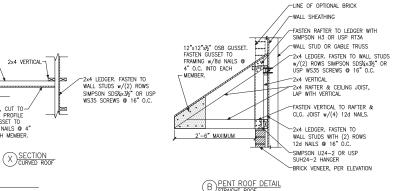
Detail

Designed By: JPS

Checked By: Issue Date: 5/7/25 Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

Project #: 047-24010

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AT 4" O.C.

(5) 10d-

ROOF TRUSSES AT 24" O.C.

SIMPSON A35 OR USP MPA1 SPACED PER SHEAR WALL BELOW ENTIRE GABLE END

LINE OF OPTIONAL BRICK

FASTEN RAFTER TO LEDGER WITH SIMPSON H3 OR USP RT3A

-2x4 LEDGER. FASTEN TO WALL STUDS

w/(2) ROWS SIMPSON SDS4x3½" OR USP WS35 SCREWS @ 16" O.C.

FASTEN VERTICAL TO RAFTER &

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

WALL STUDS WITH (2) ROWS 12d NAILS @ 16" O.C.

-SIMPSON U24-2 OR USP SUH24-2 HANGER -BRICK VENEER, PER ELEVATION

-2x4 LEDGER. FASTEN TO

2x12 RAFTER WITH

CURVED PROFILE CUT INTO RAFTER-

8d NAILS AT 6" O.C. -

END TRUSS 2x4 BLOCKING BTWN

RAFTERS.

2x4 FRAMING AT 24" O.C. -CANTILEVERED OVER GABLE

2x6 KICKER AT 6'-0" O.C., WITH-

2x6 "T" SCAB, NAIL SCAB TO

KICKER WITH 10d NAILS AT 6" O.C. KICKER MAY BE OMITTED WHEN HEIGHT OF GABLE END TRUSS IS 4'-0" OR LESS.

%6" OSB AT GABLE END TRUSS, PER SHEAR WALL

EDGE NAILING PER SHEAR — WALL SCHEDULE PER SHEAR

WALL ABOVE (6" O.C. AT NON-SHEAR WALLS)

%6" OSB WALL SHEATHING

OSB GUSSET, CUT TO-MATCH ROOF PROFILE

FASTEN GUSSET TO

FRAMING w/8d NAILS @ 4"

O.C. INTO EACH MEMBER.

2x4 BLOCKING BETWEEN TRUSSES WITH SIMPSON U24 OR USP JL24 EACH END

-SIMPSON LTP4 EVERY

(2) SIMPSON GBC OR

(E) GABLE END WALL DETAIL

USP HC520 EACH KICKER

/WALL STUD OR GABLE TRUSS

-WALL SHEATHING

-2x4 VERTICAL

A PENT ROOF DETAIL CURVED ROOF

SLOPING L3½"x3½"x½" BRICK ANGLE WITH HORIZ. PL3x3x½ PLATES AT 24" O.C. (MIN TWO PER ANGLE. NAIL TO GIRDER

TRUSS WITH 16d NAILS AT 9" O.C. THROUGH PRE-DRILLED

TYP 14 V

ROOF GIRDER TRUSS TO

SUPPORT DEAD LOAD OF BRICK, SEE PLAN

(D)TRUSS DETAIL

-HOLES.

-2x4 CEILING JOIST, LAP WITH VERTICAL

OSB GUSSET, CUT TO MATCH ROOF PROFILE FASTEN GUSSET TO

FRAMING w/8d NAILS @ 4"

O.C. INTO EACH MEMBER.

2'-6" MAXIMUM

2x12 RAFTER WITH

CURVED PROFILE

CUT INTO RAFTER

BRICK VENEER-

2x WALL STUDS,

B PENT ROOF DETAIL

TOENAIL RAFTER TO LEDGER WITH (4) 12d NAILS -2×4 LEDGER, FASTEN TO WALL STUDS w/(2) ROWS SIMPSON SDS1/4×31/2" SCREWS @ 16" O.C. -2x4 RAFTER & CEILING JOIST, LAP AND FACE NAIL WITH (4) -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



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North Ξ. A610 115

Re-Issue:

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

Foundation ithic Slab Foundity, Lot #1032 Springhill Mode Monolithic Serenity, Designed By: JPS Checked By: Issue Date: 5/7/25

INSTALL ½" DIA. ANCHOR BOLTS w/3"x3"x4" PLATE WASHERS @ 6'-0" O.C., SEE

SEAL 051215

Project #: 047-24010

Raleigh,

Carolina

4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL COMPACTED FILL -MONOLITHIC CONCRETE FOOTING, SEE PLAN. Details

FOUNDATION NOTES.

00

NOTCH BRICK

@ THREADED

ROD AND GROUT SOLID

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

THICKENED SLAB

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

AND VERTICALLY AND SHALL SUPPORT NOT

MORE THAN 2 SQUARE

FOUNDATION SECTION EXTERIOR WALL AT PORCH w/ BRICK VENEER

LIVING SPACE

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

CONCRETE SLAB POURED

MONOLITHICALLY WITH FOOTING, SEE PLAN.

FEET OF WALL AREA

CONCRETE SLAB, SEE PLAN

EXTERIOR

12" MINIMUM

BELOW GRADE

GRADE

INSIDE EDGE OF MONOLITHIC

00

FOUNDATION:

(1) ADDITIONAL LADDER WIRE BELOW

TOP BRICK COURSE CAST INTO SLAB

BRICK -

MASONRY

OUTSIDE

EDGE OF BRICK AND

WALL ABOVE

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

STEP VARIES

GARAGE SPACE

G GARAGE DOOR SECTION 2x STUD WALL W/ -P.T. PLATE, SEE PLAN. 3"x3"x4" PLATE WASHERS @ 6'-0' O.C., SEE FOUNDATION NOTES.

/ 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 2

C FOUNDATION SECTION EXTERIOR WALL AT PORCH

CONCRETE SLAB, SEE PLAN

EXTERIOR

12" MINIMUM

BELOW GRADE

GRADE

INSTALL 1/2" DIA. ANCHOR BOLTS W/ BRICK VENEER -SEE ARCH DWGS -(1) ADDITIONAL LADDER WIRE BELOW TOP BRICK COURSE CAST INTO SLAB FOR BRICK TIES. CA" CONCRETE SLAB. SEE PLAN. WEEPS, ETC. 8" MINIMUM TO GRADE, 24" MAX EXTERIOR GRADE " GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL

ISOLATED PAD FOOTING INTERIOR COLUMN

WIDTH

CONCRETE SLAB, SEE PLAN ISOLATED PAD FOOTING, SEE PLAN FOR SIZE 12" MINIMUM-BELOW GRADE FOOTING, SEE PLAN.

FOUNDATION SECTION
EXTERIOR GARAGE WALL ® BRICK VENEER

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

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

SEE FOUNDATION NOTES.

B) FOUNDATION SECTION EXTERIOR WALL @ BRICK VENEER FOUNDATION SECTION

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 ❷ 6'-0" O.C., SEE FOUNDATION NOTES.

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

MONOLITHIC CONCRETE FOOTING w/ 4" LEDGE BRICK VENEER, SEE

FOOTING, SEE PLAN.

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 SOLIARE FEET OF WALL AREA

8" MINIMUM TO

GRADE, 30" MAX

EXTERIOR GRADE

12" MINIMUM -

BELOW GRADE

95% COMPACTED SOIL MONOLITHIC CONCRETE

FOUNDATION SECTION ALTERNATE EXTERIOR WALL

POST ABOVE, SEE PLAN

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 POLIRED SEE FOUNDATION NOTES FOOTING, SEE PLAN, THICKENED SLAB, SEE PLAN.

E) FOUNDATION SECTION EXTERIOR GARAGE WALL

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

SEE FOUNDATION NOTES.

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

SEE FOUNDATION NOTES

-6" CONCRETE STEMWALL

FOUNDATION SECTION

CONCRETE SLAB POURED MONOLITHICALLY WITH FOOTING, SEE PLAN.

"4" GRAVEL FILL OR GROUP 1

CLASSIFIED SOIL

COMPACTED FILL

-MONOLITHIC CONCRETE

CONCRETE SLAB POURED

-4" GRAVEL FILL OR GROUP 1

CLASSIFIED SOIL

MONOLITHICALLY WITH

FOOTING, SEE PLAN.

-COMPACTED FILL

MONOLITHIC CONCRETE

FOOTING, SEE PLAN,

FOOTING, SEE PLAN.

P.T. PLATE, SEE PLAN.

8" MINIMIM TO

GRADE, 30" MAX

EXTERIOR GRADE~

12" MINIMUM~ BELOW GRADE

2x STUD WALL w/ P.T.

PLATE, SEE PLAN

8" MINIMUM TO

GRADE, 30" MAX

EXTERIOR GRADE

12" MINIMUM

BELOW GRADE

THICKENED SLAB SECTION ( J )INTERIOR BEARING WALL



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Notes

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Details

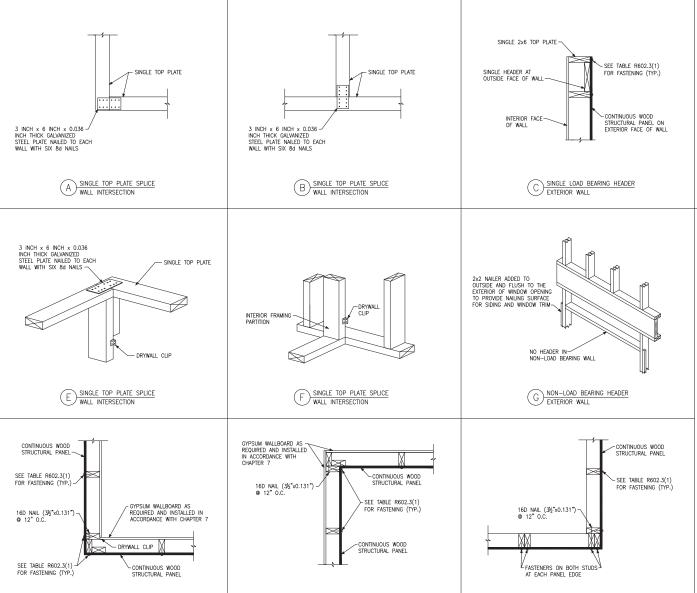








1/4"=1'-0" @ 22x34



TYPICAL EXTERIOR CORNER FRAMING GARAGE DOOR CORNER DETAIL

ADVANCED FRAMING NOTES

SINGLE TOP PLATE SPLICE

INTERIOR OR EXTERIOR WALL

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

PLATE WITH SIX 8d NAILS

2x BLOCKING BETWEEN ADJACENT STUDS. NAIL ON EACH SIDE OF SPLICE WITH SIX 12d NAILS 7

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.

SINGLE TOP PLATE. SPLICE OVER STUD

-SINGLE TOP PLATE, SPLICE OVER STUD

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.

TYPICAL EXTERIOR CORNER FRAMING INSIDE CORNER DETAIL

TYPICAL EXTERIOR CORNER FRAMING

OUTSIDE CORNER DETAIL