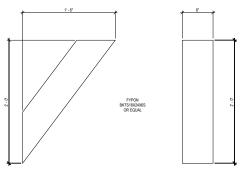
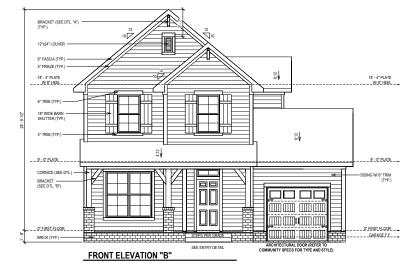


# BRACKET DETAIL "A" SCALE: 1" = 1'-0"



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







REAR ELEVATION "B"

© Weekler
The measurements, climens shown on this document are only. The actual specification vary. This document reof what the com-

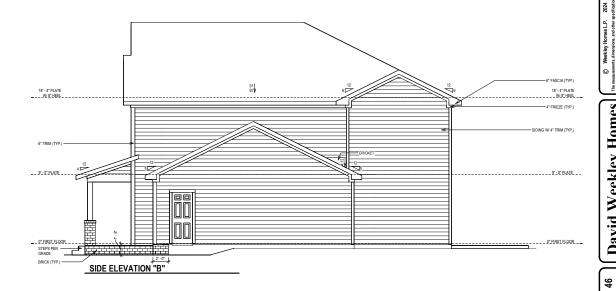
David Weekley Homes Scale:1/8"=1'-0" Rev:

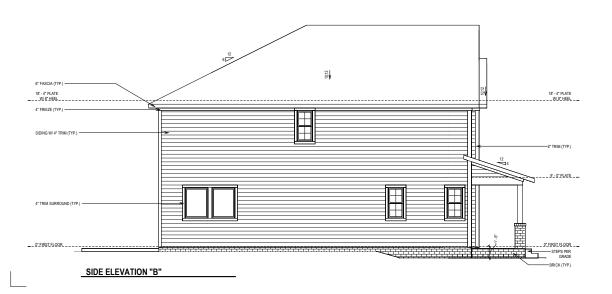
PT/AAS/JF/JL Date: 11/18/2024

46 Fot Proj. No.: 3293 Job No.: 0046M

SERENITY 43' 17 COMFORT COURT FUQUAY VARINA, NC

A610-B ELV-1 SPRINGHILL RALEIGH





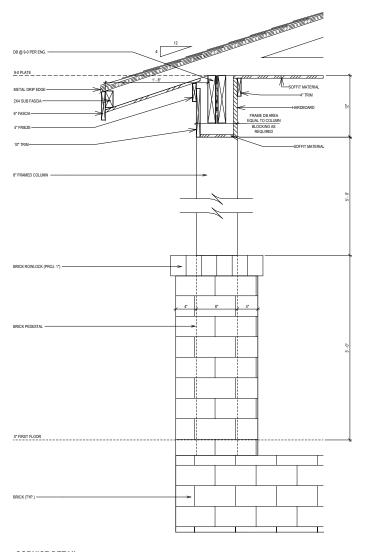
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PT/AAS/JF/JL Date: 11/18/2024

Proj. No.: 3293 Job No.: 0046M SERENITY 43' 17 COMFORT COURT FUQUAY VARINA, NC

Lot:

A610-B ELV-2 SPRINGHILL RALEIGH



SCALE: 1" = 1'-0"

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

46 Lot: Proj. No.: 3293 Job No.: 0046M

SERENITY 43' 17 COMFORT COURT FUQUAY VARINA, NC

NORTH A610-B ELV-3 SPRINGHILL RALEIGH

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NOT USED SD-11

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

## A610 SPRINGHILL

SERENITY, LOT #46

## RALEIGH, NORTH CAROLINA

THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. THIS COORDINATION IS NOT THE RESPONSIBILITY OF THE RECORDING LENGINEER OF RECORD (SER), SHOULD ANY DISORPEANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KSE ENGINEERING, P.E. SEFORE CONSTRUCTION BEGINST, IT IS THE HINTE OF THE ENGINEER LISTED ON THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO REVIEW ALL OF THE INFORMATION CONTRAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE TO RANT PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PROFILE OF CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS.

#### DESIGN SPECIFICATIONS:

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

- 2018 NORTH CAROLINA RESIDENTIAL CODE. WALL BRACING PER INTERNATIONAL RESIDENTIAL CODE 2015 EDITION.

- \*\*RODF = 20 PSF (LOAD DURATION FACTOR=1.25)

  \*\*UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)
- · HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 30 PSF
- FLOOR (SLEEPING AREAS) = 30 PSF
- DECK/BALCONY = 40 PSF STAIRS = 40 PSF

DESIGN DEAD LOADS:

- \*ROOF TRUSS = 17 PSF (TC=7, BC=10)

  \*FLOOR TRUSS = 15 PSF (TC=10, BC=5)
- FLOOR JOIST = 10 PSF STANDARD BRICK = 40 PSF
- QUEEN ANNE BRICK = 25 PSF

\*NOTE: STRUCTURAL FRAMING HAS NOT BEEN DESIGNED FOR TILE, GRANITE, MARBLE OR OTHER MATERIALS HEAVIER THAN THE ABOVE LOADING UNLESS SPECIFICALLY NOTED ON PLANS.\*

DESIGN WIND LOADS:

\* ULTIMATE WIND SPEED = 115 MPH • EXPOSURE CATEGORY = B

ASSUMED SOIL BEARING CAPACITY = 2000 PSF ASSUMED LATERAL SOIL PRESSURE = 45 PCF

FROST DEPTH = 12" MINIMUM

SEISMIC DESIGN CATEGORY = B

#### ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:

- \*TJI 210 SERIES (SERIES AND SPACING PER PLANS)

  \*LSL: E=1,550,000 PSI, 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

Cover Sheet Serenity, Lot #46 A610 Springhill Model Raleigh, North Carolina 115

Project #: 047-24010 Designed By: LMR Checked By: Issue Date: 5/16/25

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

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

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

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

FOUNDATIONS: FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH

- CHAPTER 4 OF THE BUILDING CODE.
  CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY
  OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM GEOTECHNICAL ENGINEER ON THE STUDY OF THE PROPOSED
  TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.
- CONTRACTOR.

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

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

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

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

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

#### CONCRETE & REINFORCING

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

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

#### MASONRY

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

#### WOOD FRAMING:

- SOLID SAWN WOOD FRAMING MEMBERS SHALL CONFORM TO THE SPECIFICATIONS LISTED IN THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION": (NDS). LINEESS THERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGNED
- SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING MINIMUM DESIGN
- E=1,400,000 PSI, F<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 AT MINIMUM OF TWO TOOF FACE SHALLS. WHERE CONTINUOUS LATERAL BRACING CANNOT BE INSTALLED, DUE TO A MINIMUM OF THREE ADJACENT TRUSSES NOT BEING IDENTICAL, THE CONTINGATION SHALL COORDINATE WITH THE TRUSS SPECIALTY ENGINEER/MANUFACTURER TO DETERMINE WHAT TYPE OF ALTERNATE BRACE (I.E., T OR L BRACE, ETC.) IS REQUIRED
- ANY CHORDS OR TRUSS WERS SHOWN ON THESE DRAWINGS HAVE BEEN SHOWN AS A REFERENCE ONLY. THE FINAL DESIGN OF THE TRUSSES SHALL BE PER THE MANUFACTURER.

  TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH
- THE SUPPORT LOCATIONS SHOWN ON THE SEALED STRUCTURAL DRAWINGS, TRUSS PROFILES TO BE SEALED BY THE TRUSS
  MANUFACTURER, TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS.
- TRUSS MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTORS FOR ALL TRUSSES
- 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 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:

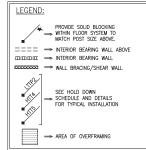
  1. STRUCTURAL SITEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS
- ALL STEEL SHALL HAVE A MINIMUM YIELD 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) 1/2" 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 SCHEDULE				
SPAN LINTEL SIZE END BEARING				
UP TO 3'-0" 3½"x3½"x½" 4"				
UP TO 6'-3"	0 6'-3" 5"x3½"x5\6" 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				



Homes <u>5</u>2 Weekl

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KERTOWN, PA 18951
(215) 804-4449

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46 Serenity, Lot #4 A610 Springhill ' .H. North ₽.  $\stackrel{\cdot}{\geq}$ 115

No.

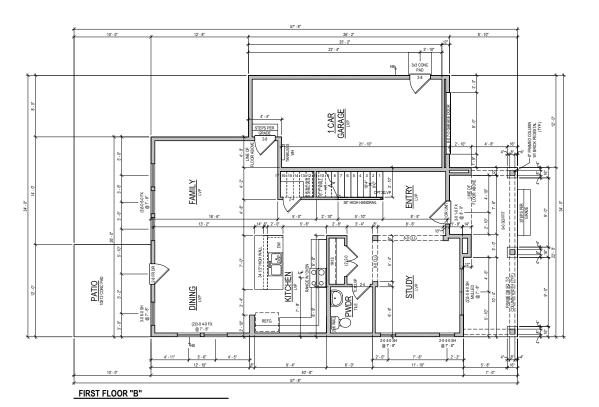
Structural

Carolina

gh,

General Project #: 047-24010 Designed By: LMR Checked By: Issue Date: 5/16/25

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



### **GENERAL REQUIREMENTS**

### SLOPED SURFACE REQUIREMENTS ALL PATIOS TO SLOPE 1/4" PER FOOT

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

RAILING REQUIREMENTS
FINISHED HANDRAIL REQUIRED AT STAIRS WITH 4 OR MORE RISERS FINISHED HANDRAIL HEIGHT BETWEEN 34" AND 36" MEASURED VERTICALLY ABOVE TREAD NOSING

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

OPTION LIST
DPBN RAILING @ 1ST & 2NDF LOOR
RRAY CELLING @ OWNER'S RETREAT

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

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

David Weekley Homes

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

Weekley Homes L.P. 202
The measurements dimension, and other opticities the phone to this document are guidelines for construct only. The actual specifications of the finished shock very. This occurrent may be breided on as a representation of what the completed summer.

PT/AAS/JF/JL Date: 11/18/2024 46

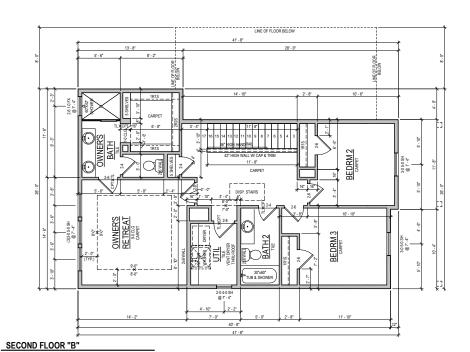
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Proj. No.: 3293 Job No.: 0046M

SERENITY 43' 17 COMFORT COURT FUQUAY VARINA, NC

$\overline{}$	,
NORTH A610-B	Ì
PLN-1	ı
SPRINGHILL	ı
RALEIGH	ı





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

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

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

© Weekley Homes LP. 20.
The measurement, dimension, and note specifical show on the governor as goldeness for control work. The december date of the Initial of the latter of the latter

Lot: 46	Block:	Sect:
Proj. No.:	Job No.:	0046M

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N 45	7 COMFORT COURT	FUQUAY VARINA,	
SEKENI	SOMF	NAY.	
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⇒ BEARING WALL ABOVE □□□□□□ ⇒ INTERIOR BEARING WALL

⇒ 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

#### KEYNOTES:

57'-8"

26'-2"

16" WIDE x 20" DEEP-

MONOLITHIC CONCRETE FOOTING. PROVIDE 6" STEM @ GARAGE.

21'-10" GARAGE SLAB

4" THICK CONCRETE SLAB W/ FIBERMESH
PER MANUFACTURER OR 646 W1.4xW1.4
WELDED WIRE MESH ON 6 MIL VAPOR
BARRIER ON 95% COMPACTED FILL SLOPE
1/8" PER 1'-0" TOWARDS DOOR.

22'-4"

3'-10"

SLAB @ OPENING

DEEP CONCRETE FOOTING

16" WIDE × 20" DEEP MONOLITHIC CONCRETE FOOTING (TYP.)

(TYP. @ BRICK -VENEER) 11'-4"

"0-'احصا

48.34.

1'-7/2" 8'-3" 2'-1/2"

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

10'-0"

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

51-7/4

18' Ja"

12'-8"

-16" WIDE x 20" DEEP MONOLITHIC

CONCRETE

30"x30"x12" DEEP CONCRETE FOOTING

SLAB ON GRADE

VAPOR BARRIER ON 95% COMPACTED FILL.

4" THICK CONCRETE
SLAB w/ FIBERMESH
FER MANUFACTURER OR
FILICKENED
GAG W1.4.W1.4 WELDED
WIRE MESH ON 6 MIL
WIRE MESH ON 6 MIL

40'-8"

MONOLITHIC SLAB FOUNDATION PLAN

57'-8"

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



Monolithic Slab Foundation P Serenity, Lot #46 A610 Springhill Model 115 M.P.H. Raleigh, North Carolina Project #: 047–24010
Designed By:LMR
Checked By:
Issue Date: 5/16/25
Re-issue:
Scale: 1/8"=1"-0" @ 11x17
1/4"=1"-0" @ 22x34

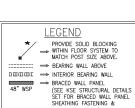
Plan





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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.

ROOF TRUSSES @ 24" O.C

1 CAR GARAGE

(2)2x6 16" 16" 16" 16"

KITCHEN

RIM BOARD 48" WSP

RIM BOARD 48" WSP

# # # # #

48" WSP

FAMILY

DINING

Q \*

9" START JOIST LAYOUT
HERE @ 19.2" O.C.
DIMENSION IS TO
REAR FACE OF JOIST

CS-ESW(1) DESIGNED TO REPLACE 110" OF CS-WSP. STRAP AROUND OPENINGS PER DETAIL C/SD-3

( Sept.

RIM BOARD (2)2x6

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

4 CONT.

RUN OSB SHEATHING CONT. THROUGH INTERSECTION WALL

(2)2x6 RIM BOARD

-ROOF TRUSSES @ 24" O.C.

-HANGERS PER TRUSS SUPPLIER (TYP.)

-STRUCTURAL COLUMN, INSTALL PER MANUFACTURER'S

SPECIFICATIONS (TYPICAL)

2x4 LEDGER w/ (2) ROWS 12d NAILS @ 16" O.C.

HUC28-2

(TYP.)

===(2)2x12 (

(2)2x6\_

NIM BOARD 80" GB(2)

STUDY

48" WSP

DOUBLE

JOIST

PWDR

SECOND FLOOR FRAMING PLAN

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

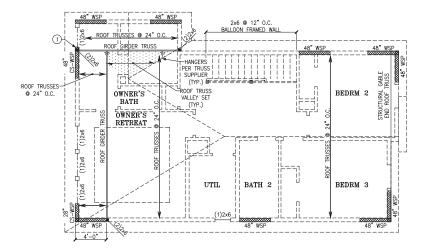


Plan Second Floor Framing Serenity, Lot #46 A610 Springhill Model Framing BLOCKING DETAILS)

115 M.P.H. Raleigh, North Carolina

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ROOF FRAMING PLAN



⇒ W

PROVIDE SOLID BLOCKING

WITHIN FLOOR SYSTEM TO
MATCH POST SIZE ABOVE.

⇒ BEARING WALL ABOVE

□□□□□□□□ → INTERIOR BEARING WALL

→ BRACED WALL PANEL

48" WSP

(SEE KSE STRUCTURAL I

→ 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:

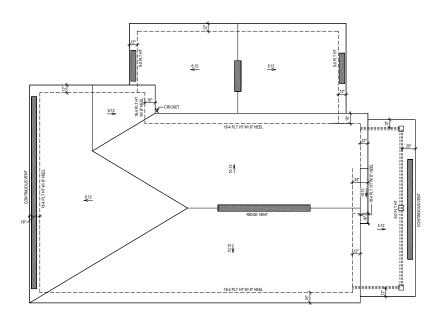
1) AT RAISED FLOOR BELOW, CONNECT STUD AT END OF BRACED WALL PANEL TO FRAMING BELOW WITH A 30" LONG SIMPSON CS20 COIL STRA WITH MIN B -104 NAILS EACH END. AT SLAB FOUNDATION BELOW, CONNECT STUD TO FOUNDATION W/ SIMPSON DTITZ W/ SIMPSON TOTTZ W/ SIMPSON TOTTZ W/ SIMPSON AS WE'R' MINIMOW EMBEDMENT.

Roof Framing Plan

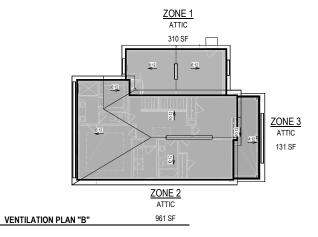
Serenity, Lot #46
A610 Springhill Model
A115 M.P.H.
Raleigh, North Carolina



Project #: 047–24010
Designed By:LMR
Checked By:
Issue Dote: 5/16/25
Re-issue: 2/13/25
Scole: 1/8'=1'-0' @ 11x17
1/4"=1'-0' @ 22x34



### ROOF PLAN "B"



	ATTIC VENTILATION - B									
NET F	REE VENTI	LATED AF	REA		EXHAUST V	/ENTS	PRIM	ARY INTAKE	ACT VENTILA	
NFVA	AREA SF )	(144/RA	TIO	INSTALL NO MORE THAN 3' BELOW HIGHEST POINT OF ZONE		INSTALL IN LOWER THIRD OF ZONE		EXHAUST NOT TO EXCEED INTAKE		
					V	ENTS		VENTS		
ZONE	AREA	VENT	MIN	REQ	SIZE	COUNT	SIZE	COUNT	EXHAUST	INTAKE
		KATIU	NEVA		SQIN	EA or LF	SQIN	EA or LF	1 "	76
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%

(i) Week lay Honnes, L.P. 2024 The measurement, all mentions, and other specifications shown on this document are guidelines for construction use the construction of the construction of the construction of the arry. This document may not be reliefed on as a representation of what the completed structure will look like.

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

Lot: 40	Block:
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Proj. No.: 3293 Job No.: 0046M

SERENITY 43' 17 COMFORT COURT FUQUAY VARINA, NC

### TRUSS ROOF NOTES

ALL OVERHANGS PER PLAN MEASURED FROM OUTSIDE FACE OF FRAME.

GABLE OVERHANGS 12" UNLESS NOTED OTHERWI

HIP OVERHANGS 16" UNLESS NOTED OTHERV

ALIGN FASCIA TO MAINTAIN CONSISTENT OVERHANG WITH DIFFERING ROOF PIT

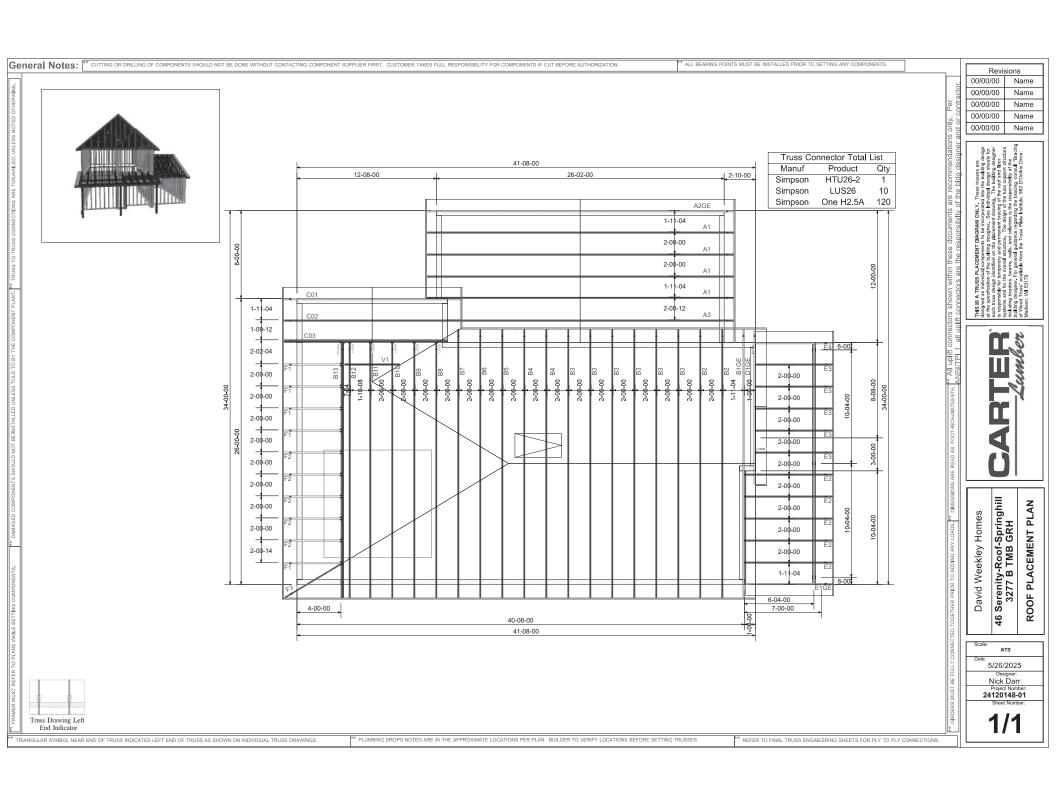
THE TRUSS MANUFACTURER SHALL DETERMINE ALL SPANS, WORKING POINTS, BEAF POINTS, AND SIMILAR CONDITIONS. TRUSS SHOP DRAWINGS SHALL SHOW ALL TRUSS MEMBERS, AND ALL TRUSS TO TRUSS HANGERS.

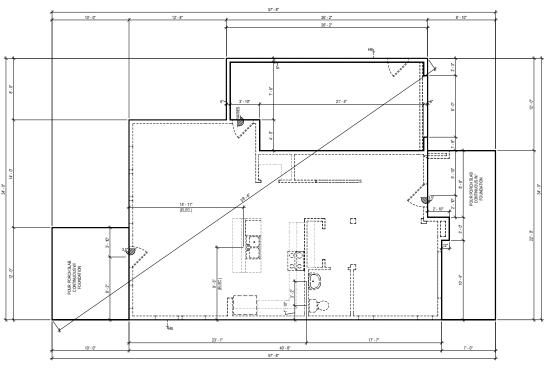
ALL OVERFRAMING AND BRACING TO BE NO. 2 GRADE 2X S.Y.P. UNLESS NOTED OTHERWISE.

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

ACTUAL ATTIC VENTILATION MAY VARY. VERIFY IN THE FIELD.







FIRST FLOOR "B"

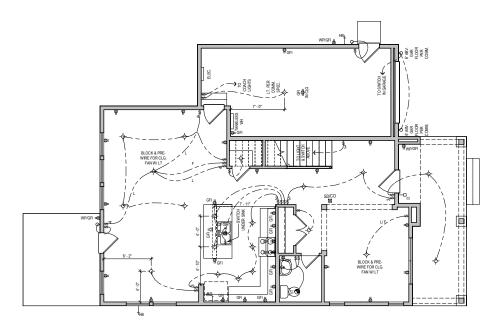
SEE ENGINEERING FOR ANCHOR BOLT REQUIREMENTS

(C) Weekley Homes LP. 2024
The measurement, dimensional and other disclosure or open or his document are good delines for construction and only. The schall specialization part to held on an expensent disclosure only with This completed studius will look like.

| Proj. No. | Lot. 46 | David Weekley Homes | 3293 | Lot. 46 | David Weekley Homes | Job No. | Block: | Date: 11/18/2024 | Rev: | Date: 11/18/2024 | Rev: |

SERENITY 43' 17 COMFORT COURT FUQUAY VARINA, NC

NORTH
A610-B
FS-1
SPRINGHILL
RALEIGH



FIRST FLOOR "B"

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

46

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Proj. No.: 3293 Job No.: 0046M

SERENITY 43' 17 COMFORT COURT FUQUAY VARINA, NC

SD SMOKE DETECTOR (CARBON MONOXIDE AS NOTED)
DOOR BELL CHIMES DOOR BELL
CHIMES
CHIMES
PANELBOARD W/
CIRCUIT
HB 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 JUNCTION BOX VT/LT RECESSED CAN/ EXHAUST VENT COMBO

ELEVATOR CALL BUTTON RECESS CAN LIGHT (EYEBALL AS NOTED)

UTILITY LEGEND

VT EXHAUST VENT

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

HALF HOT OUTLET

▼ PHONE LINE

₫ 220V OUTLET (36" A.F.F. @ UTILITY)

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**

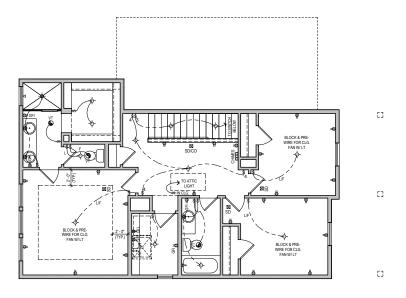
2. SWITCH FOR ATTIC LIGHT TO BE LOCATED OUTSIDE OF ATTIC SPACE, 12 INCHES FROM CEILING.

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.





SECOND FLOOR "B"

Week key Homes L.P. 2024

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46 Fot:

Proj. No.: 3293 Job No.: 0046M

SERENITY 43' 17 COMFORT COURT FUQUAY VARINA, NC

A610-B ELE-2

SPRINGHILL RALEIGH

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
ELEC. CHIMES
CIRCUIT
HB 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 JUNCTION BOX

VT/LT RECESSED CAN/ EXHAUST VENT COMBO

IN ALL HABITABLE ROOMS LIGHT BOXES MUST BE FAN RATED

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

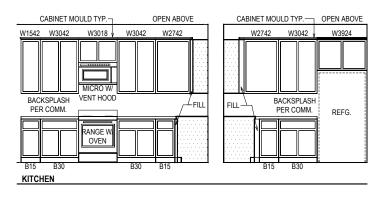
#### **MID-ATLANTIC General Notes**

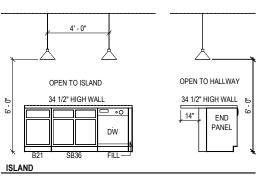
2. SWITCH FOR ATTIC LIGHT TO BE LOCATED OUTSIDE OF ATTIC SPACE, 12 INCHES FROM CEILING.

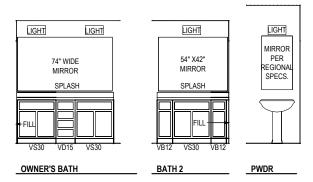
3. DO NOT RUN WIRES ON TOP OF JOISTS IN AREAS LIKELY TO HAVE DECKING IN ATTIC. (near disappearing stairs)

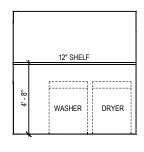
5. PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.

6. LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.









UTILITY

1293 Lot. 46 David Weekley Homes
1299 Block: PTAAS\JF\JL Scale:1/4"=1'.0"

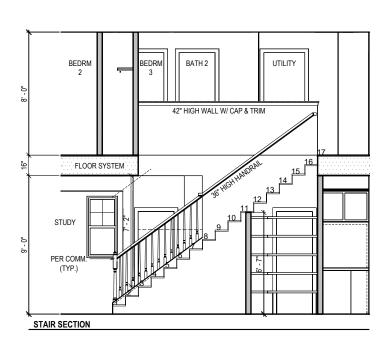
0046\M sect. Date: 11/18/2024 Rev:

Week ley Homes L.P.
The measurements, almention, and other goe above on this document are guidelines for con only. The actual specifications of the finished viva; This document may not be trelied on as a city what the commission of a surface.

SERENITY 43' 17 COMFORT COURT FUQUAY VARINA, NC

NORTH A610-B INT-1 SPRINGHILL

RALEIGH





| SERENITY 43' | Proj. No.: | Lot. | 17 COMFORT COURT | 3293 | Lot. | 1906K: | Block: | Block

46

NORTH A610-B INT-2 SPRINGHILL RALEIGH

Raleigh, North Carolina

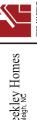
М.Р.Н

115

Braced Wall Details Serenity, Lot #46 A610 Springhill Model

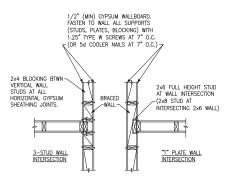






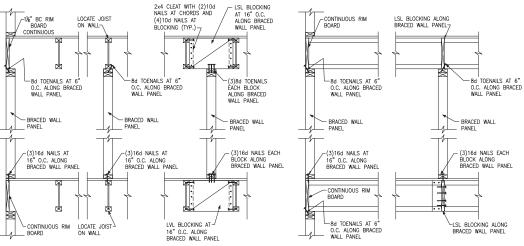






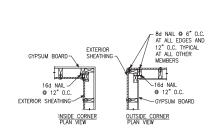
BRACED WALL INTERSECTIONS MAY BE FRAMED USING EITHER THE 3-STUD OR THE T-PLATE METHOD

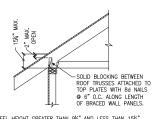
© METHOD GB(1) AND GB(2) INTERSECTION DETAILS

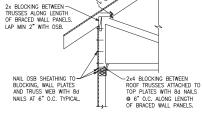


A TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION BRACED WALL PANELS PARALLEL TO I-JOISTS

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







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

HEEL HEIGHT GREATER 15"

## DTYPICAL EXTERIOR CORNER WALL FRAMING

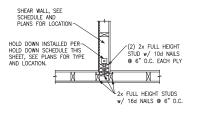
NOTE: A THIRD STUD AND/OR PARTITION INTERSECTION BACKING STUDS SHALL BE PERMITTED TO BE OMITTED THROUGH THE USE OF WOOD BACKUP CLEATS, METAL DRYWALL CLIPS OR OTHER APPROVED DEVICES THAT WILL SERVE AS ADEQUATE BACKING FOR THE FACING MATERIALS.

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

KSE

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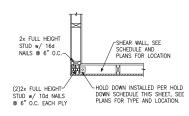




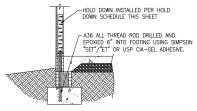
A36 ALL THREAD ROD-

SIMPSON CNW1/2 -OR USP CNW12-ZP COUPLER NUT

GROUT CMU SOLID AT ALL THREAD ROD-

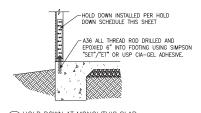


# B TYPICAL HOLD DOWN DETAIL

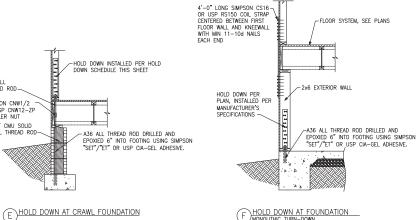




4'-0" LONG SIMPSON CS16-



(D)HOLD DOWN AT MONOLITHIC SLAB





OR USP RS150 COIL STRAP CENTERED BETWEEN FIRST FLOOR WALL AND KNEEWALL WITH MIN 11—10d NAILS EACH END	FLOOR SYSTEM, SEE PLANS
HOLD DOWN PER PLAN, INSTALLED PER MANUFACTURER'S SPECIFICATIONS	2x6 EXTERIOR WALL  -A36 ALL THREAD ROD DRILLED AND EPOXED 6" NTO FOOTING USING SIMPSON "SET"/E" OR USP CIA-GEL ADHESIVE.
	DWN AT FOUNDATION

	1	HOLD DOWN	SCHEDULE	
HOLD DOWN		ALL TREAD ROD	FASTENERS	
SIMPSON	USP	1.66 11.66	111012112110	
LTTP2	LTS20B	½" DIA.	(10)10d NAILS	
HTT4	HTT16	%" DIA.	(18)16dx2½" LONG NAILS	
HTT5	HTT45	%" DIA.	(26)16dx2½" LONG NAILS	



Carolina

North

Details

 $\approx$ 

Notes

Wall

SEE PLAN VARIES - SEE PLAN SEE PLAN ONE CONT. 2x TOP PLATE, EXTEND EACH END INTO ADJACENT WALL. CONT. BEAM FULL LENGTH OF FRAME. SEE ELEVATION FOR SIZE (111/4" MIN DEPTH) AND TYPE (DIMENSIONAL LUMBER OR LVL) NAIL SPLICES WITH 8-16d NAILS PER SPLICE/LAP. NAIL THE SHEATHING IN SHADED AREA TO BEAM WITH 8d NAILS AT 3" O.C. EACH WAY  $\%_6$ " O.S.B. OR  $^{15}\!\%_2$ " PLYWOOD EXTERIOR WALL SHEATHING AT UNSHADED AREAS (2) ROWS 16d NAILS AT 3" O.C. SIMPSON OR LISE FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES
SHALL BE BLOCKED AND OCCUR WITHIN 24" OF MID
HEIGHT, ONE ROW OF TYP, SHEATHING-TO-FRAMING (BEAM AND INFILL WALL), NAIL LSTA21 WITH 16-10d NAILS SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 12" AT FIRST STUD EACH SIDE OF IS REQUIRED IN EACH PANEL  $\%_6$ " O.S.B. OR  $^{15}\!\!\!/_{\!\!\!2}$ " PLYWOOD EXTERIOR WALL SHEATHING. AT SHADED AREAS NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, O.C. IN THE FIELD. OPENING NO SILL AND CRIPPLE WALL "H" = FRAME HEIGHT VARIES-- SEE ELEVATION AT BAY/DOOR ETC.) WITH 8d NAILS AT 3" O.C. (2)2x STUD MIN. AT START AND END OF WALL SEGMENTS EACH SIDE OF OPENING. IF PLANS CALL FOR MORE THAN TWO STUDS, PROVIDE SIMPSON LTP4 OR USP MPF4 NUMBER OF STUDS CALLED FOR ON PLAN. " MIN THICK RIM BOARD OR BASEMENT/CRAWL FOUNDATION OR 2ND CONNECT RIM TO SOLE PLATE OF WALL WITH TWO SIMPSON LTP4 OR USP MPF4 EACH FULL HEIGHT PANEL LADDER TRUSS AT FLOOR FLOOR CONDITION BASEMENT/CRAWL FOUNDATION WALL OR FIRST FLOOR WALL BELOW STEMWALL /MONOLITHIC SLAB FOUNDATION -2x P.T. PLATE WITH (2)½" DIA x 8" EMBED ANCHOR BOLTS EACH WITH A  $\frac{1}{16}$ "x2"x2" PLATE WASHER CONDITION FOUNDATION

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

STEMWALL/MONOLITHIC SLAB FOUNDATION WALL

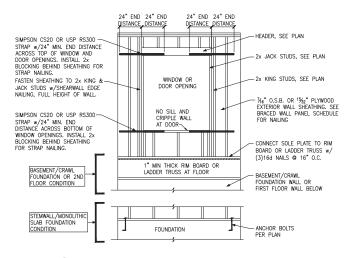
VARIES - SEE PLAN SEE PLAN SEE PLAN CONT. BEAM FULL LENGTH OF FRAME. SEE ELEVATION FOR SIZE (11½" MIN DEPTH) AND ONE CONT. 2x TOP PLATE, EXTEND - EACH END INTO ADJACENT WALL. NAIL SPLICES 8-16d NAILS PER TYPE (DIMENSIONAL LUMBER OR LVL) SPLICE/LAP. NAIL THE SHEATHING IN SHADED AREA TO BEAM WITH 8d NAILS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

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

	BRACED WALI	L 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 SUPPORTS</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 SUPPORTS</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 15/2" PLYWOOD, FASTENED PER IRC. AT EXTERIOR CORNERS SHEATHING SHALL BE FASTENED PER KSE BRACED WALL DETAILS. AT INTERIOR WALL INTERSECTIONS, FASTEN STUDS & WALL BRACING PER KSE BRACED WALL DETAILS.
- BRACED WALL PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER IRC. PANEL LENGTHS SHOWN ON PLANS ARE THE MINIMUM LENGTH REQUIRED.



WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL



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ENGINE







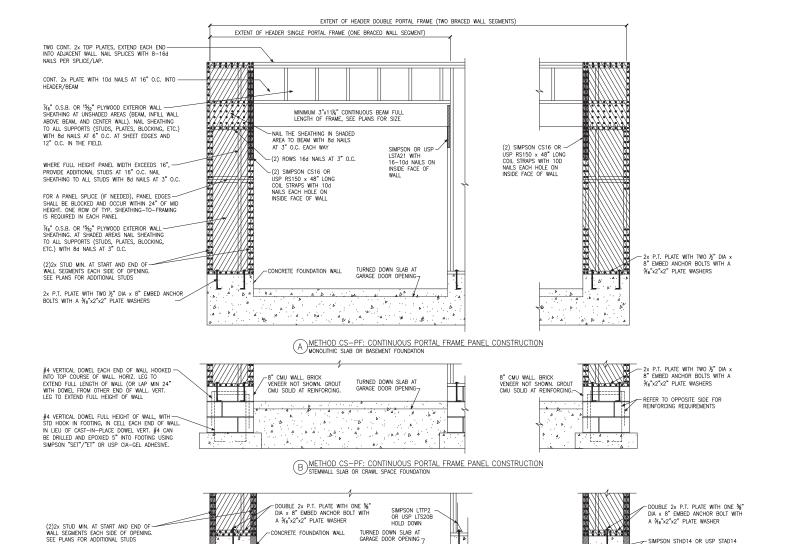
Designed By:LMR Checked By: Issue Date: 5/16/25

Re-Issue:

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



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



CONTINUOUS #4 HIGH AND LOW.

PROVIDE MIN 24" LAPS WHERE SPLICED.

SIMPSON STHD14 OR USP STAD14 STRAP-TIE HOLD -

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

MANUFACTURER'S SPECS.

KSE

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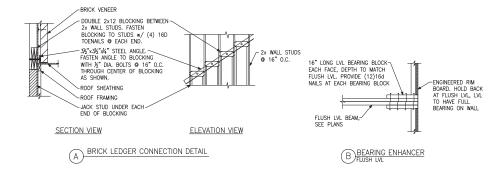


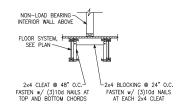




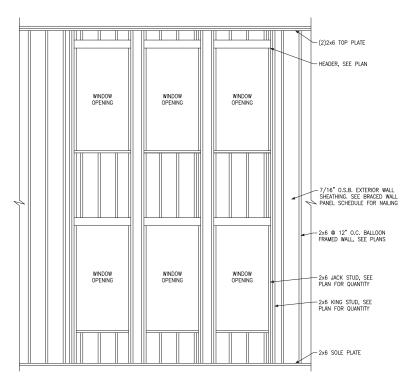


Raleigh, North Carolina Project #: 047–24010
Designed By:LMR
Checked By:
Issue Date: 5/16/25
Re-Issue:
Scole: 1/8"=1"-0" @ 11x17
1/4"=1"-0" @ 22x34





C LADDER BLOCKING
AS REQUIRED @ PARALLEL WALLS



DBALLOON FRAMED WALL DETAIL N.T.S.

WALL STUD SIZE, HEIGHT & SPACING SCHEDULE						
STUD SIZE	BEARING WALLS				NONBEARING WALLS	
	LATERALLY UNSUPPORTED STUD HEIGHT	MAXIMUM SPACING WHEN SUPPORTING A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY, ONLY	MAXIMUM SPACING WHEN SUPPORTING ONE FLOOR, PLUS A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY	WHEN SUPPORTING TWO FLOORS, PLUS	LATERALLY UNSUPPORTED STUD HEIGHT	MAXIMUM SPACING
2x4	10'-0"	24"	16"	-	14'-0"	24"
2x6	10'-0"	24"	24"	16"	20'-0"	24"

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

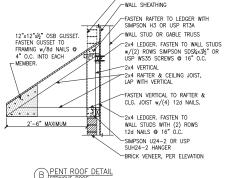
Issue Date: 5/16/25 Re-Issue:

Designed By: LMR Checked By:

Project #: 047-24010

Detail

Miscellaneous Framing | Serenity, Lot #46 A610 Springhill Model



-LINE OF OPTIONAL BRICK

B PENT ROOF 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 SDS¼x3½" 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)

¾6" OSB WALL SHEATHING

OSB GUSSET, CUT TO-MATCH ROOF PROFILE

FASTEN GUSSET TO FRAMING w/8d NAILS @ 4"

O.C. INTO EACH MEMBER.

2x4 VERTICAL

X SECTION CURVED ROOF

(E)GABLE END WALL DETAIL

2x4 LEDGER, FASTEN TO

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

SIMPSON LTP4 EVERY

(2) SIMPSON GBC OR

USP HC520 EACH KICKER

WALL STUDS w/(2) ROWS SIMPSON SDS¼x3½" OR USP WS35 SCREWS ⊕ 16" O.C.

- 8d NAILS AT 4" O.C.

(5) 10d-

ROOF TRUSSES

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

AT 24" O.C.

NAILS

-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 K

ROOF GIRDER TRUSS TO

SUPPORT DEAD LOAD OF BRICK, SEE PLAN

D TRUSS DETAIL

PL3x3x16

-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,

SEE PLAN

12d NAILS



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

S

ENGINEERING

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AKERTOWN, PA 18951
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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.

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.

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



Detail

Foundation

Slab

nity, Lot #46 Springhill Model ΞĖ  $\dot{\geq}$ A610 115

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

Project #: 047-24010 Designed By: LMR Checked By: Issue Date: 5/16/25

Monolithic

Serenity,

Raleigh,

Carolina North

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

INSIDE EDGE OF MONOLITHIC 2x STUD WALL W/ P.T. PLATE, SEE PLAN. FOUNDATION: INSTALL 1/2" DIA. ANCHOR BOLTS W/ (1) ADDITIONAL LADDER WIRE BELOW 3"x3"x14" PLATE WASHERS @ 6'-0' O.C., SEE FOUNDATION NOTES. TOP BRICK COURSE CAST INTO SLAB (1) ADDITIONAL LADDER WIRE BELOW TOP BRICK COURSE CAST INTO SLAB 4" CONCRETE SLAB, SEE PLAN BRICK -MASONRY 00 4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL OUTSIDE

/ 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

EDGE OF BRICK AND

WALL ABOVE

M FOUNDATION SECTION
ALTERNATE EXTERIOR WALL

POST ABOVE, SEE PLAN 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

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

-MONOLITHIC CONCRETE

FOOTING w/ 4" LEDGE BRICK VENEER, SEE

FOOTING, SEE PLAN.

BRICK VENEER -SEE ARCH DWGS CONCRETE SLAB, SEE PLAN FOR BRICK TIES WEEPS, ETC. 8" MINIMUM TO GRADE, 24" MAX EXTERIOR GRADE 12" MINIMUM-BELOW GRADE

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

> THICKENED SLAB SECTION ( J )INTERIOR BEARING WALL

rINSTALL ½" DIA. ANCHOR BOLTS @ 6'-0" O.C., SEE FOUNDATION NOTES. CONCRETE SLAB POURED MONOLITHICALLY WITH 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 SQUARE

FEET OF WALL AREA

8" MINIMUM TO

GRADE, 30" MAX

EXTERIOR GRADE

12" MINIMUM

BELOW GRADE

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

FOUNDATION SECTION

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

8" MINIMUM TO

GRADE, 30" MAX

EXTERIOR GRADE-

12" MINIMUM-

BELOW GRADE

BELOW GRADE

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

2x STUD WALL w/ P.T. SEE FOUNDATION NOTES PLATE, SEE PLAN. -6" CONCRETE STEMWALL CONCRETE SLAB POURED 8" MINIMUM TO MONOLITHICALLY WITH GRADE, 30" MAX FOOTING, SEE PLAN. EXTERIOR GRADE -4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL 12" MINIMUM

> COMPACTED FILL MONOLITHIC CONCRETE FOOTING, SEE PLAN,

E)FOUNDATION SECTION
EXTERIOR GARAGE WALL

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

ISOLATED PAD FOOTING INTERIOR COLUMN

95% COMPACTED SOIL MONOLITHIC CONCRETE

G GARAGE DOOR SECTION

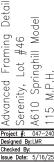
FOOTING, SEE PLAN. FOUNDATION SECTION ALTERNATE EXTERIOR WALL

INSTALL ½" DIA. ANCHOR BOLTS w/3"x3"x4" PLATE WASHERS @ 6'-0" O.C., SEE FOUNDATION NOTES. 000 NOTCH BRICK @ THREADED ROD AND GROUT SOLID

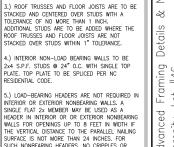


















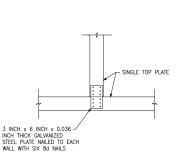
Re-Issue: 1/4"=1'-0" @ 22x34

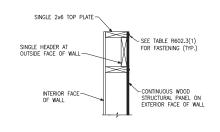
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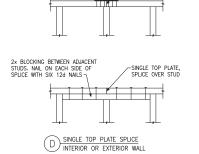
5. SUITE 201, QUAKERTOWN, PA 18951

(215) 804-4449

S







ADVANCED FRAMING NOTES

1.) EXTERIOR WALLS TO BE 2x6 S.P.F. STUDS ® 24" O.C. WITH SINGLE TOP PLATE. TOP PLATE TO

BE SPLICED PER NC RESIDENTIAL CODE.

TOLERANCE OF NO MORE THAN 1 INCH.

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

INTERIOR OR EXTERIOR NONBEARING WALLS. A

SINGLE FLAT 2x MEMBER MAY BE USED AS A

SURFACE IS NOT MORE THAN 24 INCHES. FOR SUCH NONBEARING HEADERS, NO CRIPPLES OR BLOCKING ARE REQUIRED ABOVE THE HEADER.

PLATE. TOP PLATE TO BE SPLICED PER NC

RESIDENTIAL CODE.

RESIDENTIAL CODE.

2.) INTERIOR BEARING WALLS TO BE PER NO

SINGLE TOP PLATE. SPLICE OVER STUD

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

PLATE WITH SIX 8d NAILS

SINGLE TOP PLATE SPLICE WALL INTERSECTION

SINGLE LOAD BEARING HEADER EXTERIOR WALL



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.)

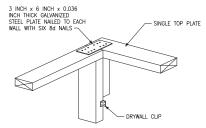
16D NAIL (3½"x0.131") -

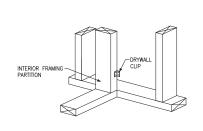
SEE TABLE R602.3(1)

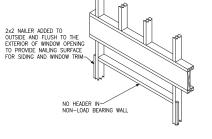
@ 12" O.C.

STEEL PLATE NAILED TO EACH WALL WITH SIX 8d NAILS

SINGLE TOP PLATE

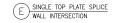






NON-LOAD BEARING HEADER (G) NUIN-LU-

-CONTINUOUS WOOD STRUCTURAL PANEL



GYPSUM WALLBOARD AS REQUIRED AND INSTALLED IN

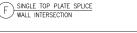
CONTINUOUS WOOD

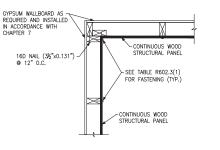
STRUCTURAL PANEL

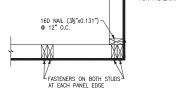
- DRYWALL CLIP

ACCORDANCE WITH CHAPTER 7









TYPICAL EXTERIOR CORNER FRAMING OUTSIDE CORNER DETAIL

TYPICAL EXTERIOR CORNER FRAMING INSIDE CORNER DETAIL

TYPICAL EXTERIOR CORNER FRAMING GARAGE DOOR CORNER DETAIL

- SEE TABLE R602.3(1) FOR FASTENING (TYP.)