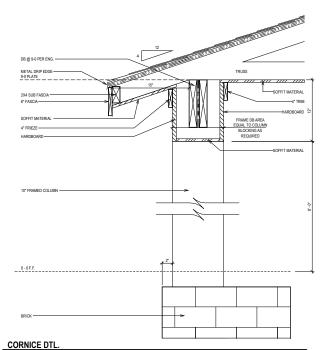


STRIMW ANGLE ENDS

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







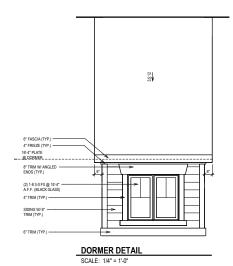
REAR ELEVATION "B"

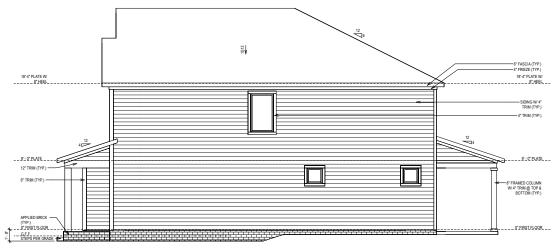
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David Weekley Homes Scale:1/8"=1'-0" Rev: 8.5.25 AM

PT/JP/JS/KC Date: 12/02/2024 993 Fot Proj. No.: 3294 Job No.: 0993 SERENITY 50' 67 COZY HAVEN FUQUAY VARINA, NC

SOUTH A670-B ELV-1 MADISON RALEIGH





SIDE ELEVATION "B"



David Weekley Homes

Lot: 993

Proj. No.: 3294 Job No.: 0993

SERENITY 50' 67 COZY HAVEN FUQUAY VARINA, NC

Scale:1/8"=1'-0" Rev: 8.5.25 AM

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

# SHEET INDEX:

S-0 S-0.1	COVER SHEET GENERAL STRUCTURAL NOTES
S-1	MONOLITHIC SLAB FOUNDATION PLAN
S-2	SECOND FLOOR FRAMING PLAN

ROOF FRAMING PLAN S-3

SD-1J BRACED WALL DETAILS SD-2J HOLD DOWN DETAILS SD-3 BRACED WALL NOTES & DETAILS SD-4 PORTAL FRAME DETAILS

SD-5 MISCELLANEOUS FRAMING DETAILS SD-6 MISCELLANEOUS FRAMING DETAILS MONOLITHIC SLAB FOUNDATION DETAILS

SD-7 SD-8 NOT USED NOT USED SD-9

SD-10 NOT USED SD-11 NOT USED

SD-12 ADVANCED FRAMING DETAILS & NOTES



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

# A670 MADISON

SERENITY, LOT #993

# 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 DISORPEANAIGES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KEE DOCUMENTS, PLACE CONTRACTOR SHALL SHAL TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ANY FULL ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENRICH PROPERTY 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.

IN LIVE LUMDS:
NOTE: LUMDS:
NOTE: 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>4</sub>=310 PSI, F<sub>6</sub>=900 PSI

  \*LVL: E=2,000,000 PSI, F<sub>8</sub>=2,600 PSI, F<sub>4</sub>=285 PSI, F<sub>6</sub>=750 PSI

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



David Weekley Homes

Carolina Serenity, Lot #993 A670 Madison Mode North М.Р.Н. 115 Project #: 047-24017

Sheet

Cover

Designed By:LMR Checked By: Issue Date: 10/23/25 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. LOO THER PARTY MAY RENSE, ALTER, OR DELETE ANY STRUCTURAL ASPECTS OF THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN CONSENT OF KSE 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 ONLY STABLE IN TIS COMPLETED FORM, THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION SEQUENCES, METHODS, OR TECHNIQUES IN CONNECTION WITH THE CONSTRUCTION OF THIS STRUCTURE. THE SER WILL NOT BE HELD RESPONSIBLE FOR THE STRUCTURE. THIS PROJECT, THE SER BEARS THE RESPONSIBILITY OF THE PRIMARY
- THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT

THE CONTRACIONS FAILURE ITO COMPORANT OF THE CONTRACIDOCUMENTS, SHOULD ANY NON-CONFORMITIES OCCUR.
THE SER DOES NOT CERTIFY DIMENSIONAL ACCURACY OR
ARCHITECTURAL LAYOUT INCLUDING ROOF GEOMETRY. THE SER
ASSUMES NO LABILITY 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

- ANY STRUCTURAL ELEMENTS OR DETAILS NOT FULLY DEVELOPED ON THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO KSE ENGINEERING FOR REVIEW BEFORE ANY CONSTRUCTION BEGINS. THE SHOP DRAWINGS WILL BE EVELOPED FOR OVERALL COMPLANCE AS IT RELATES TO THE STRUCTURAL DESIGN OF THIS PROJECT, VERIFICATION OF THE SHOP DRAWINGS FOR DIMENSIONS, OF FOR ACTUAL FIELD CONDITIONS, IS NOT THE RESPONSIBILITY OF THE SER OR KSE ENGINEERING, P.C. PRESPONSIBILITY OF THE SER OF THE STRUCTURAL DESIGN OF THE SER OF
- TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
  THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL
  ELEMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE
- FLEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS THIS STRUCTURE AND ALL CONSTRUCTIONS SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL CODES OR RESTRICTIONS.
   DO NOT SCALE DRAWNOS. 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
- 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 22 ANCHOR BOLIS WITH 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 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.
- within the First 1EN FEET.

  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 FIBERS 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.

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. DEFAULING, 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 BE 13. WHERE REINFURGING DOWNES ARE REQUIRED, THEI SPAUL FOR EQUIVALENT 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 HAM 4 FEET ON CENTER, NO ROCKS, CMM, 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 PSL 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 3/4" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,000
- ALL MASONRY WORK SHALL RE 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
- 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
- MAY BE USED IF THE DISSIPPORTED HEIGHT IS NOT MURE THAN FOL 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 WINDLOCK 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). LINEESS 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 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, 13" 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 OTHERWISE NOTED.

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 (4) STUDS UP TO 16' OPENING (5) STUDS UP TO 12' 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, DINESS DIFFERMS. NOTED, ALL BEAM SPLICES SHALL OCCUR OVER SUPPORTS.

13. 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 ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIAMETER SHALL HAVE STUD PROTECTION SHIFLDS ALL HOLES OVER 1" IN DIAMETER FOR PLLIMRING 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 OF 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 RAFTER 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 BU 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. "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 TO PROVIDE AT BUSH CONTINUOUS STREPAR PARKE LINE. SO, 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 TO FACE SHALS. WHERE CONTINUOUS LATERAL BRACING CANNOT BE INSTALLED, DUE TO A MINIMUM OF THREE ADJACENT TRUSSES NOT BEING IDENTICAL, THE CONTINGTOR 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

PROVIDE SIMPSON H2 54 LISP RT7 OR FOLIVALENT 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

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 76 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 SHEATHING SHALL HAVE A SHAN RATING CONSISTENT WITH THE FRAMING SPACING, PROVIDE SUITABLE EDGE SUPPORT BY USE OF T&G PLYWOOD OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. 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 SITEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS (F.) OF 50 KSI

UNLESS OTHERWISE NOTED.
WELDING SHALL CONFORM TO THE LATEST EDITION OF THE

AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWA D1.1 ELECTRODES FOR SHOP AND FIELDING WELDING SHALL BE CLASS 570XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A

MINIMUM BEARING LENGTH OF 38" AND FULL FLANGE WIDTH UNLESS OTHERWISE NOTED. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR (2) 3/8" x 4" LAG SCREWS

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

### MECHANICAL FASTENERS

ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG—TIE OR APPROVED EQUIVALENT. ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE

PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN

ACCORDANCE WITH ASTM A 153, G-185,
MANY OF THE NEW PRESSURE TREATED WOODS USE CHEMICALS
THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S
RESPONSIBILITY TO VERIFY THE TYPE OF WOOD TREATMENT AND SELECT APPROPRIATE CONNECTORS THAT WILL RESIST THE APPLICABLE CORROSIVE CHEMICALS.



BRICK	VENEER LINTEL SC	HEDULE			
SPAN LINTEL SIZE END BEARING					
UP TO 3'-0"	3½"×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.					



es S Not Model 666 Structural # ity, Lot # Madison Serenity, General

Carolina

.H. North

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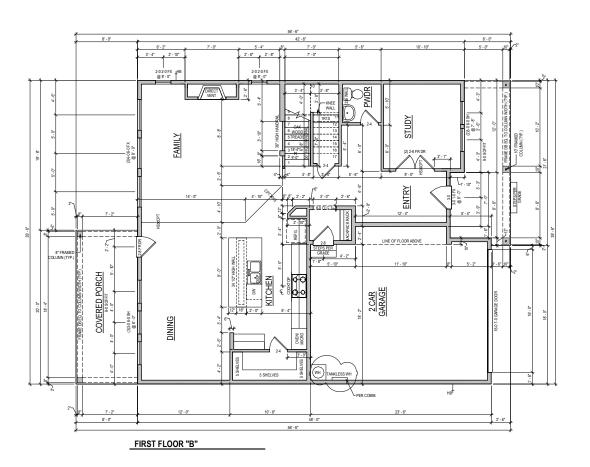
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A670 Ralei 115 Project #: 047-24017 Designed By: LMR Checked By: Issue Date: 10/23/25

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

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KERTOWN, PA 18951
(215) 804-4449 NGIN S  $\checkmark$ ÍШ

Homes <u>5</u>2 Week1 David 7



GENERAL REQUIREMENTS
SURB SURLIFEQUEREMENTS
ALPATOS N.S. OR. EVENTOR
GARGELORY DE SLUPED 16 THE POTTOR
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GARGELORY
FRENCH TOWNERS
F

OPTION LIST TRAY CELLING @ OWNER'S RETREAT HARD SURFACE TREADS

FINSPED HANDRAL HEIGHT BETYERN 34" AND 35" MEASLRED VER MOSING FINSHED GLARDRALS REQUIRED AT DECKS, BALCONIES AND WA GREATER ARONG GRADE AT A MANMAM, OF 35" IN HIBGHT

 Week key Homes L.P. 205.
The measurements, dimensions, and other specifical shown on this document or aguldeless for constructory. The schall specification of the finaled environment of what the occument may not be. ADVANCED FRAMING: 2X6 EXTERIOR PERIMETER WALLS & ALL INSULATED WALLS UNLESS NOTED OTHERWISE

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

PLAN SQFT - B

1270 SF 160 SF 141 SF

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

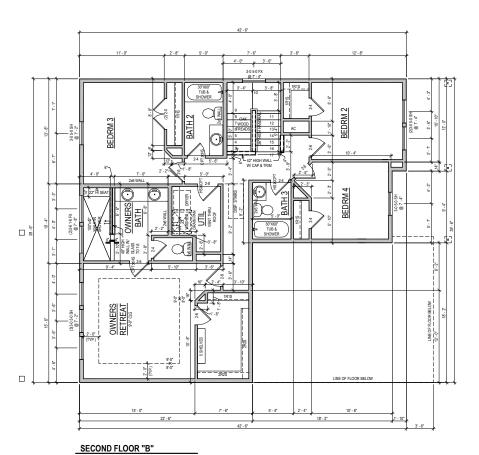
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SOUTH A670-B PI N-1

MADISON RALEIGH

SERENITY 50'	67 COZY HAVEN FUQUAY VARINA, NC
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Proj. No.:	3294	Job No.: 0993
ERENITY 50'	OZY HAVEN	AY VARINA, NC

Lot: 993	David Wee	David Weekley Homes
Block:	PT/JP/JS/KC	Scale:1/8"=1'-0"
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NOTE: ALL 2ND FLR. CEILING HEIGHTS 8' - 0" UNLESS NOTED OTHERWISE

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

David Weekley Homes PT/JP/JS/KC Date: 12/02/2024 993 Block: Lot: Proj. No.: 3294 Job No.: 0993

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.

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SERENITY 50' 67 COZY HAVEN FUQUAY VARINA, NC





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KSE



Plan



4" THICK CONCRETE

SLAB w/ FIBERMESH PER MANUFACTURER OR 6x6 W1.4xW1.4 WELDED

WIRE MESH ON 95% —COMPACTED FILL.

158.012

16" WIDE x-20" DEEP MONOLITHIC CONCRETE

FOOTING (TYP.)

11'-10"

23'-6"

GARAGE SLAB

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.

TURNDOWN-SLAB @ OPENING

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 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

KEYNOTES:

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



MONOLITHIC SLAB FOUNDATION PLAN

56'-6"

11)\

5'-10"

11'-3"

(TYP. @

BRICK

VENEER)

DEEP MONOLITHIC CONCRETE FOOTING (TYP.)

8'-0" 38 da

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

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

11'-3"

8" DEEP x 16"-WIDE THICKENED

SLAB (TYP.)

SLAB ON GRADE

4" THICK CONCRETE SLAB w/ FIBERMESH PER

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

22'-6"



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KSE



Plan

Framing

Second Floor Framing Serenity, Lot #993 A670 Madison Model

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.



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





SECOND FLOOR FRAMING PLAN

48" WSP

KITCHEN

2x6 @ 12" O.C. BALLOON

FRAMED WALL

PWDR

JOIST SUPPLIER (TYP.)

HANGERS PER TRUSS SUPPLIER

FAMILY

DINING

SIMPSON HUC28-2 (TYP.)

START DOUBLE

COVERED PORCH

@ 24" O.C.

2x6 LEDGERw/ (3) ROWS 12d NAILS ® 16" O.C.

(2)2x8

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

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

STUDY

ENTRY

1¾"x16" LVL FLUSH

ROOF TRUSSES @ 24" O.C.

2 CAR

GARAGE

VALLEY SET ROOF TRUSSES @ 24" TO FORM FALSE DORMER

HUC28-2 (TYP.)-7

င္ဗ်ာ (2)2x8

(2)2x8<sub>7</sub>

CONT

3

(2)134"x1176"

Ę,

STRUCTURAL COLUMN, INSTALL PER

MANUFACTURER'S
-SPECIFICATIONS (TYPICAL)

ROOF TRUSSES -@ 24" O.C.

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

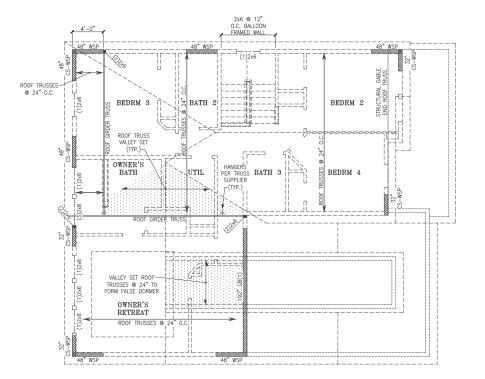
Issue Date: 10/23/25

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

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KSE







PROVIDE SOLID BLOCKING

WITHIN FLOOR SYSTEM TO
MATCH POST SIZE ABOVE.

⇒ BEARING WALL ABOVE

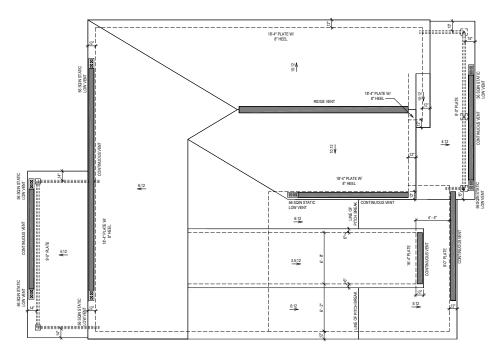
□□□□□□ ⇒ INTERIOR BEARING WALL BLOCKING DETAILS)

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

PLAN DESIGNED WITH 8' NOMINAL WALL PLATE HEIGHT

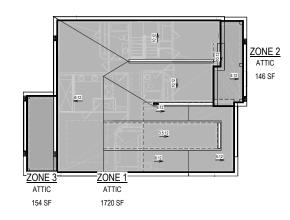


115 M.P.H. Raleigh, North Carolina Roof Framing Plan Serenity, Lot #993 A670 Madison Model Project #: 047–24017
Designed By:LMR
Checked By:
Issue Date: 10/23/25
Re-issue:
Scale: 1/8"=1"-0" @ 11x17
1/4"=1"-0" @ 22x34



ROOF PLAN "B"

	ATTIC VENTILATION WITH SECONDARY INTAKE - B												
NET FREE VENTILATED AREA EXHAUST VENTS				INTAKE VENTS ACTUAL VENTILATION %									
NFVA	=AREA SF	X 144 / RA	по		NO MORE SHEST POIN	THAN 3' BELOW IT OF ZONE	INSTALL IN LOWER THIRD OF ZONE					EXHAUST NOT TO EXCEED INTAKE	
		\	·		VENTS		PRII	MARY VENTS		SECON	DARY VENTS		
ZONE	AREA	VENT	MIN	REQ	SIZE	COUNT	SIZE	COUNT	INTAKE SPLIT %	SIZE	COUNT	EXHAUST 46	INTAKE
		104110			SQIN	EA or SQIN/LF	SQIN	EA or SQIN/LF	0. 2	SQIN	EA or SQINLF	~ \	" \
ZONE 1	1720 SF	300	826	Yes	18	22	5	61	30%	56	3	46%	54%
ZONE 2	146 SF	150	140	No	0	0	5	13	55%	56	2	0%	100%
ZONE 3	154 SF	150	1/18	No	0	0	5	13	58%	56	2	0%	100%



# VENTILATION PLAN "B"

# TRUSS ROOF NOTES

ALL OVERHANGS PER PLAN MEASURED FROM OUTSIDE FACE OF FRAME.

GABLE OVERHANGS 12" UNLESS NOTED OTHERWISE.

HIP OVERHANGS 16" UNLESS NOTED OTHERWIS

JGN FASCIA TO MAINTAIN CONSISTENT OVERHANG WITH DIFFERING ROOF PITC

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

ALL OVERFRAMING AND BRACING TO BE NO. 2 GRADE 2X S.Y.P. UNLESS NOTED OTHERWISE ROOF SHEATHING AT OVERFRAME SHALL BE REMOVED TO ALLOW FOR VENTLATION BETWEEN ATTICS SPACES ON VENTED ATTICS.

ACTUAL ATTIC VENTILATION MAY VARY, VERIFY IN THE FIELD.

Weekley Homes L.P. 2024

The measurement dimensions, and one specifications show on the document are guidelines for construction uses the work. The extent professions on the initial desturation may vize. This document may not be reliefed on as a representation of what the completed standard will look like.

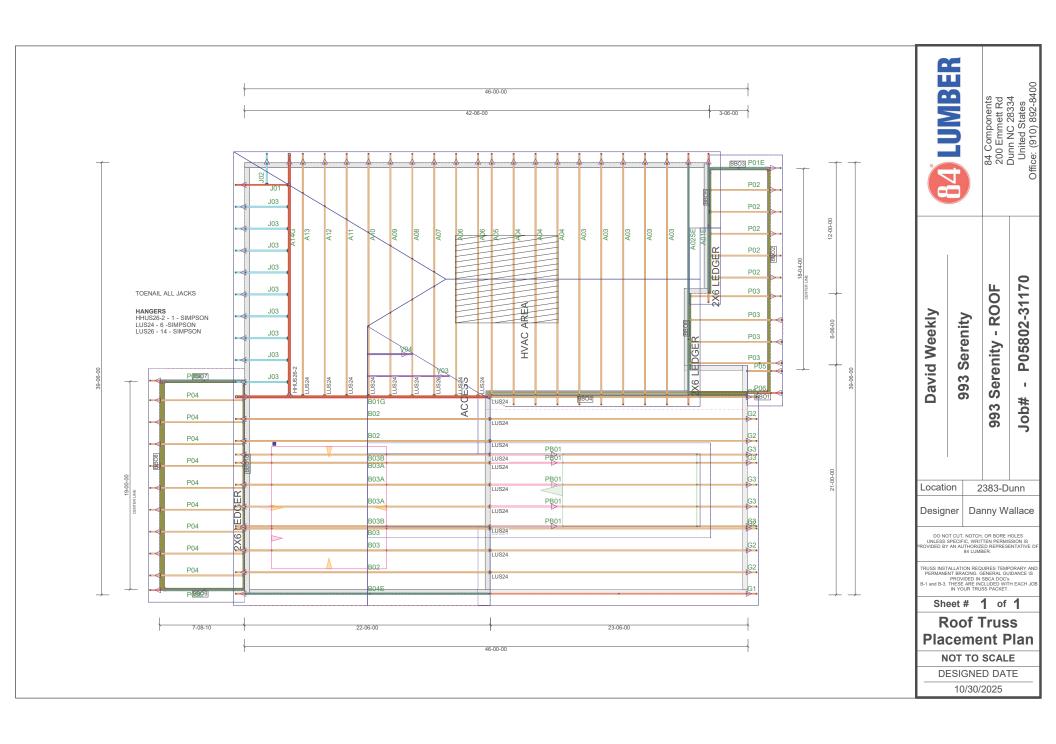
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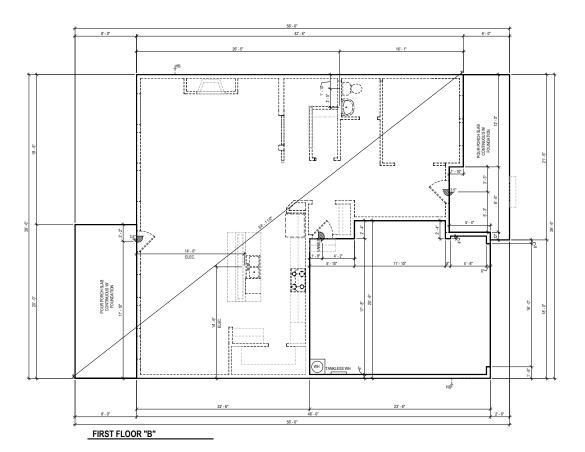
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SERENITY 50' 67 COZY HAVEN FUQUAY VARINA, NC

SOUTH A670-B RFP-1 MADISON RALEIGH





SEE ENGINEERING FOR ANCHOR BOLT REQUIREMENTS

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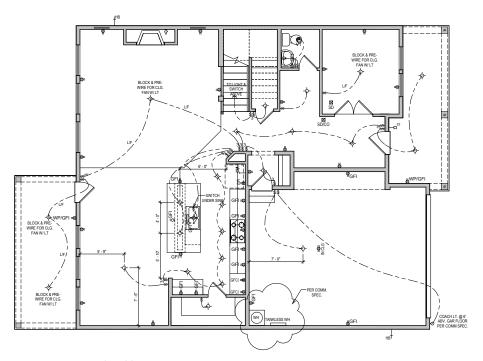
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SERENITY 50' 67 COZY HAVEN FUQUAY VARINA, NC

A670-B FS-1 MADISON RALEIGH



FIRST FLOOR "B"

 Weekky Homes LP. 202

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

Block:

Proj. No.: 3294 Job No.: 0993

SERENITY 50' 67 COZY HAVEN FUQUAY VARINA, NC

993

Lot:

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

GFI GROUND FAULT INTERRUPTOR
(WEATHER PROOF AS NOTED) 1/2 HALF HOT OUTLET 220V OUTLET
 (36" A.F.F. @ UTILITY) ▼ PHONE LINE CABLE TELEVISION \$ STANDARD SWITCH (3 OR 4 WAY AS NOTED) SURFACE MOUNTED LIGHT

SURFACE MOUNTED LED DISC LIGHT

WALL MOUNTED LIGHT

WALL MOUNTED LIGHT

RECESS CAN LIGHT
(EYEBALL AS NOTED) VT EXHAUST VENT SD SMOKE DETECTOR

(CARBON MONOXIDE AS

D NOTED)

DOOR BELL CHIMES DOOR BELL
ELEC. CHIMES
PANEL BOARD W/
CIRCUIT
HB. BREAKERS
HOSE BIB

GAS GAS TAP

F ELEVATOR CALL BUTTON JUNCTION BOX

MID-ATLANTIC General Notes

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

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

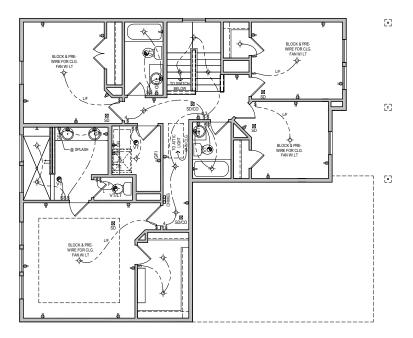
3. DO NOT RUN WIRES ON TOP OF JOISTS IN AREAS LIKELY TO HAVE DECKING IN ATTIC. (near disappearing stairs)

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.

A670-B ELE-1 MADISON RALEIGH



SECOND FLOOR "B"

UTILITY LEGEND 110V OUTLET 12" A.F.F. (U.N.O.) GROUND FAULT INTERRUPTOR (WEATHER PROOF AS NOTED) GFI 1/2 HALF HOT OUTLET CABLE TELEVISION STANDARD SWITCH (3 OR 4 WAY AS NOTED) - SURFACE MOUNTED LIGHT - SURFACE MOUNTED LED DISC LIGHT VED DISCLIGHT

WALL MOUNTED
LIGHT

RECESS CAN LIGHT
(EVERALL AS NOTED)

VT

SD SMOKE DETECTOR
(CARBON MONOXIDE AS
NOTED)

DOOR BELL CHIMES DOOR BELL
CHIMES
CHIMES
CHIMES
CHIMES
CIRCUIT
CIRCUIT
HB. BREAKERS
HOSE BIB GAS GAS TAP CW HW COLD/HOT WATER SUPPLY E ELEVATOR CALL BUTTON JUNCTION BOX

## **MID-ATLANTIC General Notes**

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

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

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

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

5. PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS

6. LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.

SERENITY 50' 67 COZY HAVEN FUQUAY VARINA, NC

David Weekley Homes

993

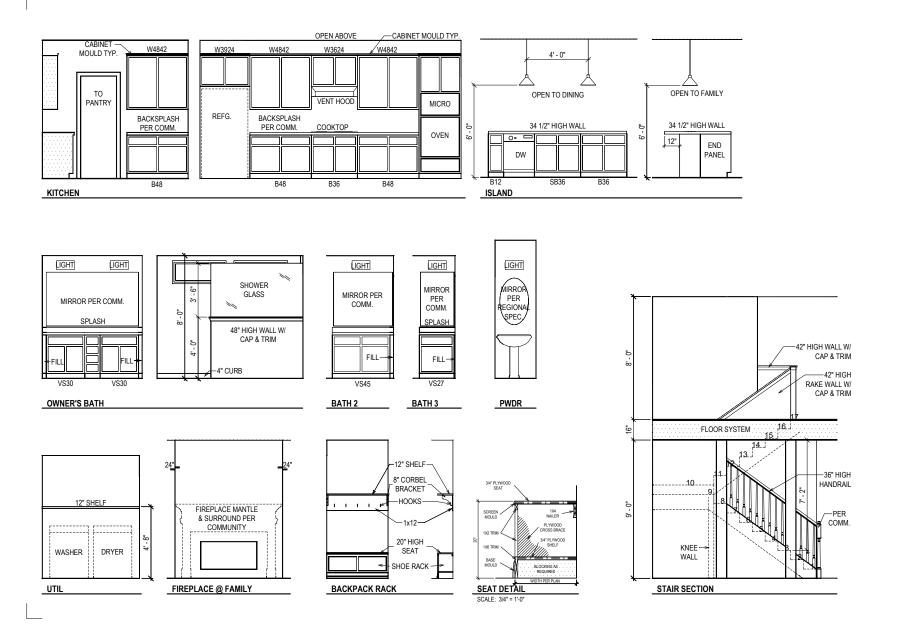
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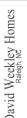








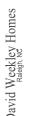












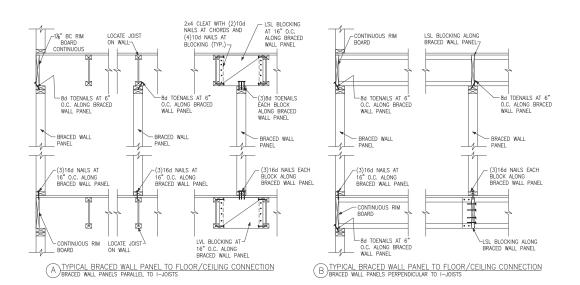


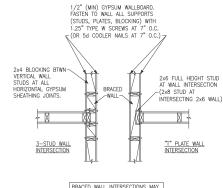


Carolina Serenity, Lot #9 A670 Madison N Raleigh, North М.Р.Н. 115 Project #: 047-24017

Braced Wall [ Serenity, Lot

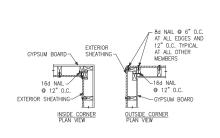
Designed By:LMR Checked By: Issue Date: 10/23/25 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

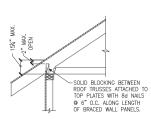


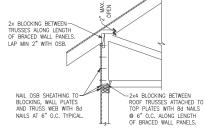


BRACED WALL INTERSECTIONS MAY BE FRAMED USING EITHER THE 3-STUD OR THE T-PLATE METHOD

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







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.

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

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







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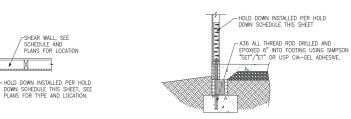
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Hold-Down Details Serenity, Lot #993 A670 Madison Model

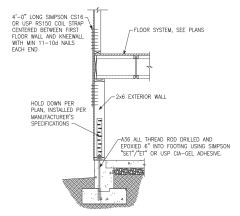








# C HOLD DOWN AT STEMWALL SLAB



# BTYPICAL HOLD DOWN DETAIL

2x FULL HEIGHT

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

(2)2x FULL HEIGHT-

STUD w/ 10d NAILS @ 6" O.C. EACH PLY

SHEAR WALL, SEE SCHEDULE AND PLANS FOR LOCATION

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

A36 ALL THREAD ROD-

SIMPSON CNW1/2 OR USP CNW12-ZP COUPLER NUT

GROUT CMU SOLID AT ALL THREAD ROD-

AND LOCATION.

(2) 2x FULL HEIGHT

STUD w/ 10d NAILS © 6" O.C. EACH PLY

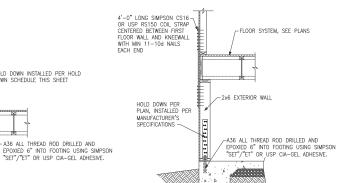
2x FULL HEIGHT STUDS

A TYPICAL HOLD DOWN DETAIL

(E)HOLD DOWN AT CRAWL FOUNDATION

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

-HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET



HOLD DOWN AT FOUNDATION
MONOLITHIC TURN-DOWN

G HOLD DOWN AT FOUNDATION STEM WALL

	-	HOLD DOWN	SCHEDULE	
HOLD DOWN		ALL TREAD ROD	FASTENERS	
SIMPSON	USP	THE THE HOD	THOTENERO	
LTTP2	LTS20B	⅓" DIA.	(10)10d NAILS	
HTT4	HTT16	%" DIA.	(18)16dx2½" LONG NAILS	
HTT5	HTT/45	54" DIA	(26)164v2k" LONG NAILS	

-HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET

DHOLD DOWN AT MONOLITHIC SLAB

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

Carolina

North

Details

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Notes

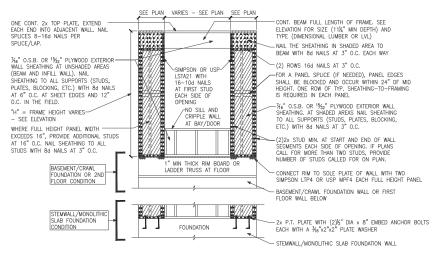
Wall

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

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

STEMWALL/MONOLITHIC SLAB FOUNDATION WALL

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

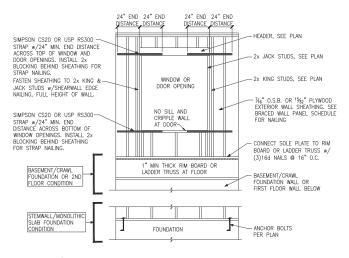


B METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION TWO BRACED WALL SEGMENTS

BRACED WALL PANEL AND ENGINEERED SHEAR WALL SCHEDULE					
PANEL TYPES	PANEL TYPE	MATERIAL	FASTENERS		
WSP	INTERMITTENT WOOD STRUCTURAL PANEL	7/16" OSB	6d or 8d common nails at 6" o.c. at sheet edges and 12" o.c. at intermediate supports. <u>Engineered Alternative</u> : 16 <u>Gage By 1.75" Long STAPLES AT 3" o.c. at sheet edges and 6" o.c. at intermediate 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. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS		
CS-PF	CONTINUOUS SHEATHED PORTAL FRAME	7/16" OSB	NAILING PER DETAIL		
CS-EPF	PORTAL FRAME WITH HOLD DOWNS	7/16" OSB	NAILING PER DETAIL		
CS-ESW(1)	ENGINEERED SHEAR WALL, TYPE 1	7/16" OSB	8d COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS		
CS-ESW(2)	ENGINEERED SHEAR WALL, TYPE 2	7/16" OSB	8d COMMON NAILS AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS		
CS-ESW(3)	ENGINEERED SHEAR WALL, TYPE 3	7/16" OSB	8d COMMON NAILS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS		

### BRACED WALL PANEL NOTES:

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



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5, SUITE 201, QUAKERTOWN, PA 18951

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Carolina

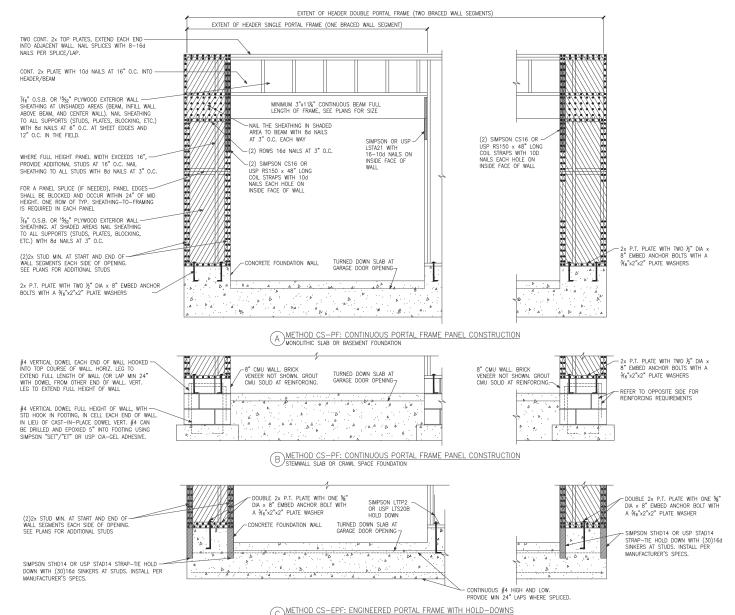
North



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Issue Date: 10/23/25

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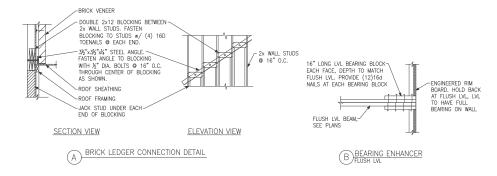


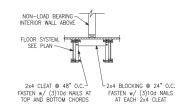




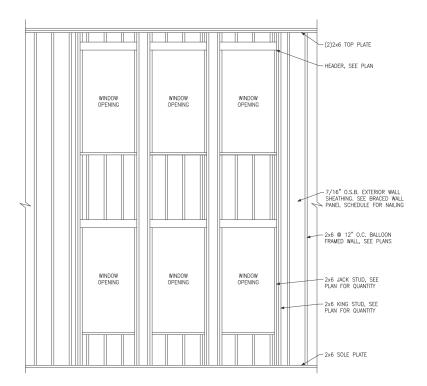
115 M.P.H. Raleigh, North Carolina 115

Project #: 047–24017
Designed By: IMR
Checked By:
Issue Date: 10/23/25
Re-Issue:
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1/4"=1"-0" @ 22x34





C LADDER BLOCKING
AS REQUIRED ® PARALLEL WALLS



DBALLOON FRAMED WALL DETAIL N.T.S.

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

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

Issue Date: 10/23/25

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Detail

Framing #993

Miscellaneous | Serenity, Lot # 115

A670 Madison

FASTEN RAFTER TO LEDGER WITH SIMPSON H3 OR USP RT3A 12"x12"x½" OSB GUSSET. FASTEN GUSSET TO FRAMING w/8d NAILS @ ─WALL STUD OR GABLE TRUSS -2x4 LEDGER. FASTEN TO WALL STUDS w/(2) ROWS SIMPSON SDS½x3½" OR USP WS35 SCREWS @ 16" O.C. 4" O.C. INTO EACH

-2x4 VERTICAL -2x4 RAFTER & CEILING JOIST, LAP WITH VERTICAL

-LINE OF OPTIONAL BRICK

-WALL SHEATHING

FASTEN VERTICAL TO RAFTER & CLG. JOIST w/(4) 12d NAILS.

-2x4 LEDGER, FASTEN TO WALL STUDS WITH (2) ROWS 12d NAILS @ 16" O.C.

SUH24-2 HANGER

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

B PENT ROOF DETAIL

- MEMBER.

- 8d NAILS 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

NAILS

2'-6" MAXIMUM

2x4 LEDGER, FASTEN TO

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

-(2) SIMPSON GBC OR USP HC520 EACH KICKER

SIMPSON LTP4 EVERY

OTHER BLOCK

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

-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 BELOW

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 VERTICAL

X SECTION CURVED ROOF

(E) GABLE END WALL DETAIL

/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

PL3x3x1/a

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

-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) 12d NAILS -2x4 LEDGER. FASTEN TO WALL OR GABLE TRUSS WITH (2) ROWS 12d NAILS @ 16" O.C.

EYEBROW ROOF DETAIL STRAIGHT ROOF

ENGINEERING

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S



Details

Foundation



115

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

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Slab ot #9 Lot Monolithic Serenity,

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Carolina North

MONOLITHICALLY WITH FOOTING, SEE PLAN. GARAGE SPACE LIVING SPACE STEP VARIES 3333 -4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL COMPACTED FILL -MONOLITHIC CONCRETE FOOTING, SEE PLAN.

FOUNDATION SECTION

EXTERIOR WALL AT PORCH W/ BRICK VENEER

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

SEE FOUNDATION NOTES.

CONCRETE SLAB POURED

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

FOUNDATION NOTES.

2x STUD WALL w/ P.T.

INSTALL 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

FEET OF WALL AREA

CONCRETE SLAB, SEE PLAN

2x STUD WALL w/ P.T.

PLATE, SEE PLAN.

12" MINIMUM

BELOW GRADE

2x STUD WALL W/ P.T. PLATE, SEE PLAN. INSTALL 1/2" DIA. ANCHOR BOLTS W/ 3"x3"x14" PLATE WASHERS @ 6'-0' O.C., SEE FOUNDATION NOTES. BRICK VENEER -SEE ARCH DWGS (1) ADDITIONAL LADDER WIRE BELOW TOP BRICK COURSE CAST INTO SLAB FOR BRICK TIES 4" CONCRETE SLAB, SEE PLAN WEEPS, ETC. 8" MINIMUM TO GRADE, 24" MAX EXTERIOR GRADE 4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL 95% COMPACTED SOIL 12" MINIMUM-MONOLITHIC CONCRETE BELOW GRADE

FOOTING, SEE PLAN.

WIDTH

CONCRETE SLAB, SEE PLAN ISOLATED PAD FOOTING, SEE PLAN FOR SIZE

FOUNDATION SECTION
EXTERIOR GARAGE WALL ® BRICK VENEER

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

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

SEE FOUNDATION NOTES.

FOUNDATION SECTION

B 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.

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

SEE FOUNDATION NOTES

CONCRETE SLAB POURED

MONOLITHICALLY WITH

FOOTING, SEE PLAN.

GRAVEL FILL

CLASSIFIED SOIL

COMPACTED FILL

MONOLITHIC CONCRETE

FOOTING w/ 4" LEDGE BRICK VENEER, SEE

OR GROUP

-PLATE, SEE PLAN.

-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

8" MINIMUM TO

GRADE, 30" MAX

12" MINIMUM

BELOW GRADE

MORE THAN 2 SQUARE FEET OF WALL AREA

ISOLATED PAD FOOTING

INTERIOR COLUMN

POST ABOVE, SEE PLAN

FOUNDATION SECTION ALTERNATE EXTERIOR WALL

INSIDE EDGE OF MONOLITHIC FOUNDATION:

(1) ADDITIONAL LADDER WIRE BELOW

TOP BRICK COURSE

CONCRETE SLAB POURED FOOTING SEE PLAN 4" GRAVEL FILL OR GROUP CLASSIFIED SOIL COMPACTED FILL

RECESS @ GARAGE DOOR

-MONOLITHIC CONCRETE FOOTING

rINSTALL 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, SEE PLAN.

OR GROUP 1

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

20 B

FOUNDATION SECTION EXTERIOR WALL AT PORCH

CONCRETE SLAB, SEE PLAN

GRADE

12" MINIMUM

BELOW GRADE

GARAGE DOOR SECTION

CAST INTO SLAB MASONRY 00 NOTCH BRICK @ THREADED ROD AND GROUT SOLID OUTSIDE EDGE OF BRICK AND WALL ABOVE

M FOUNDATION SECTION
ALTERNATE EXTERIOR WALL

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

> THICKENED SLAB SECTION ( J )INTERIOR BEARING WALL

E) FOUNDATION SECTION EXTERIOR GARAGE WALL

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

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

CONCRETE SLAB POURED 8" MINIMUM TO MONOLITHICALLY WITH GRADE, 30" MAX. FOOTING, SEE PLAN.

FOUNDATION SECTION

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

SEE FOUNDATION NOTES.

CONCRETE SLAB POURED MONOLITHICALLY WITH FOOTING, SEE PLAN.

"4" GRAVEL FILL OR GROUP 1

CLASSIFIED SOIL

COMPACTED FILL

-MONOLITHIC CONCRETE

FOOTING, SEE PLAN.

EXTERIOR GRADE--4" GRAVEL FILL OR GROUP 1 12" MINIMUM

CLASSIFIED SOIL -COMPACTED FILL MONOLITHIC CONCRETE

FOOTING, SEE PLAN,

BELOW GRADE

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

8" MINIMUM TO

GRADE, 30" MAX

EXTERIOR GRADE ~

12" MINIMUM-BELOW GRADE

ENGINEERING

5. SUITE 201, QUAKERTOWN, PA 18951

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Notes

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Details

Framing

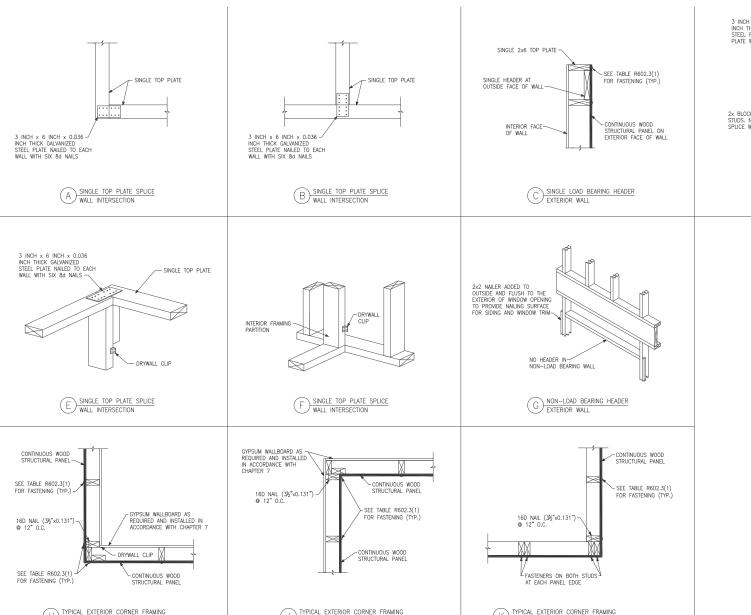
#883





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

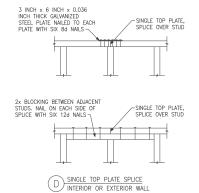




INSIDE CORNER DETAIL

GARAGE DOOR CORNER DETAIL

OUTSIDE CORNER DETAIL



ADVANCED FRAMING NOTES

1.) EXTERIOR WALLS TO BE 2x6 S.P.F. STUDS ®

24" O.C. WITH SINGLE TOP PLATE, TOP PLATE TO BE SPLICED PER NC RESIDENTIAL CODE.

2.) INTERIOR BEARING WALLS TO BE PER 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.