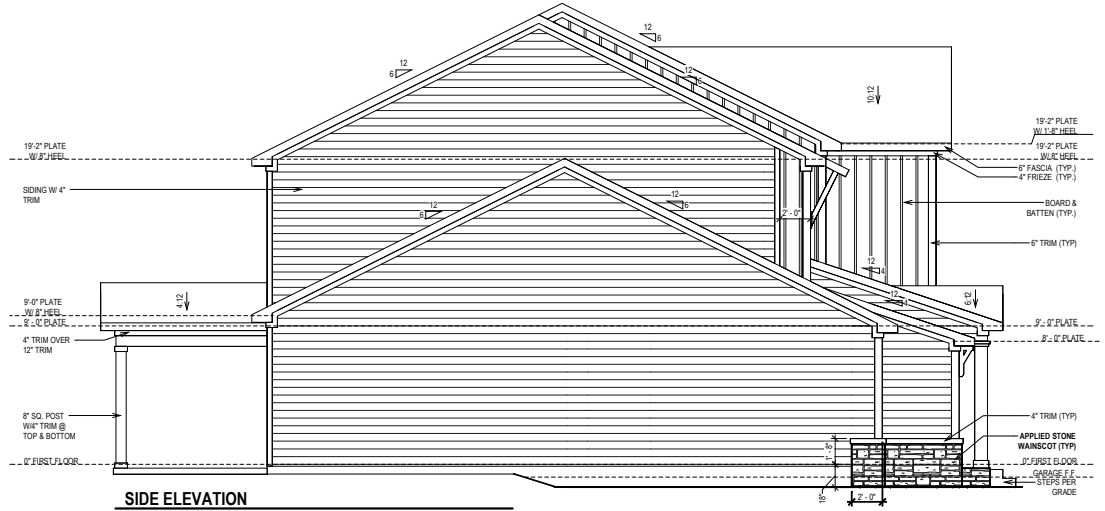
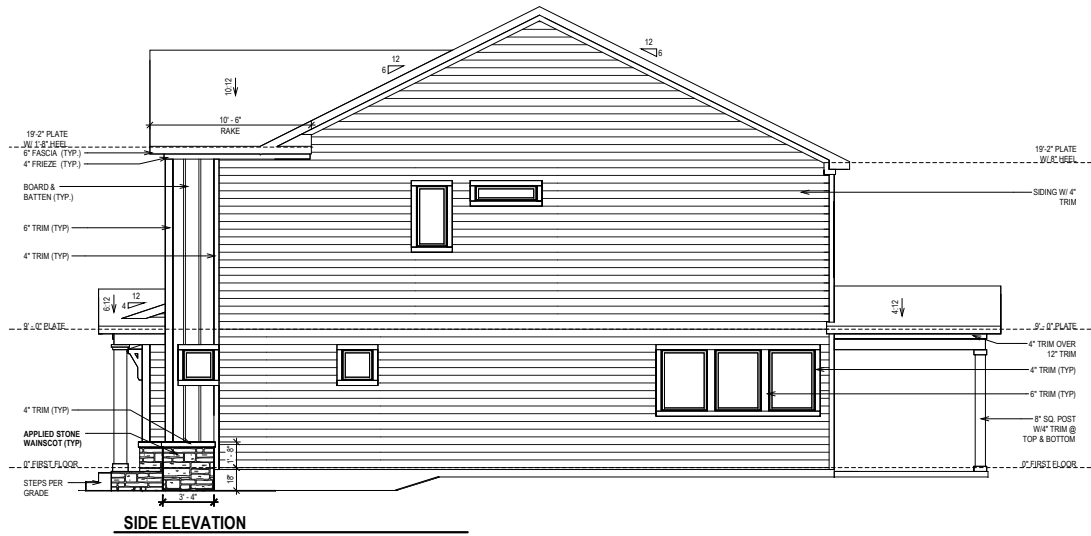




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The measurements, dimensions, and other specifications shown on this document are guidelines for construction use only. They are not to be used as a basis for construction. They may vary. This document may not be relied on as a representation of what the completed structure will look like.

David Weekley Homes
CN/AF/SG Scale: 1/8"=1'-0"
Date: 10/02/2020 Rev: 1/6/25 EB

1016
Proj. No.: 3277
Lot: -
Block: -
Job No.: 1016
Sect: -

SERENITY 65' SEL
1229 SERENITY WALK PARKWAY
FUQUAY VARINA, NC

SOUTH B330-A ELV-2
RANS DALL
RALEIGH

SHEET INDEX:

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S-2	SECOND FLOOR FRAMING PLAN
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SD-1	BRACED WALL DETAILS
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SD-4	PORTAL FRAME DETAILS
SD-5	MISCELLANEOUS FRAMING DETAILS
SD-6	MISCELLANEOUS FRAMING DETAILS
SD-7	MONOLITHIC SLAB FOUNDATION DETAILS
SD-8	NOT USED
SD-9	NOT USED
SD-10	NOT USED
SD-11	NOT USED
SD-12	ADVANCED FRAMING DETAILS & NOTES



KSE
ENGINEERING

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B330 RANSBALL
SERENITY, LOT #1016

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 STRUCTURAL ENGINEER OF RECORD (SER). SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS. IT IS THE INTENT OF THE ENGINEER LISTED ON THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO REVIEW ALL OF THE INFORMATION CONTAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ANY PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS.

DESIGN SPECIFICATIONS:

DESIGN BUILDING CODE (REFERRED TO HEREIN AS "THE BUILDING CODE"):
• 2018 NORTH CAROLINA RESIDENTIAL CODE. WALL BRACING PER INTERNATIONAL RESIDENTIAL CODE 2015 EDITION.

DESIGN LIVE LOADS:
• ROOF = 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 = 40 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_b=2,325 PSI, F_v=310 PSI, F_c=900 PSI
• LVL: E=2,000,000 PSI, F_b=2,600 PSI, F_v=285 PSI, F_c=750 PSI
• PSL: E=2,100,000 PSI, F_b=2,900 PSI, F_v=290 PSI, F_c=625 PSI



David Weekley Homes
Raleigh, NC

Cover Sheet
Serenity, Lot #1016
B330 Ransdall Model
115 M.P.H.
Raleigh, North Carolina

Project #: 047-20010
Designed By: JPS
Checked By:
Issue Date: 9/18/25
Re-Issue:
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

S-0

3. 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 DESIGN OF ALL ELEMENTS OF THE STRUCTURE. NO OTHER PARTY MAY REVERSE, 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 CONSIDER THE STRUCTURE TO BE A STRUCTURE.
4. THE STRUCTURE IS ONLY STABLE IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION TO STABILIZE THE STRUCTURE.
5. THE SER IS NOT RESPONSIBLE FOR THE SELECTION OF METHODS, METHODS, OR TECHNIQUES IN CONNECTION WITH THE CONSTRUCTION OF THIS STRUCTURE. THE SER WILL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT DOCUMENTS, SHOULD ANY NON-CONFORMITIES OCCUR.
6. THE SER DOES NOT CERTIFY DURING ANY DESIGN OR ARCHITECTURAL LAYOUT INCLUDING ROOF GEOMETRY, THE SER ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY ANTI-DRIFT OR DEFLECTIONS. THE SER WILL NOT BE HELD RESPONSIBLE FOR CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
7. ANY STRUCTURAL ELEMENTS OR DETAILS NOT FULLY DEVELOPED ON THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THESE CONSTRUCTION DRAWINGS SHALL BE SUBMITTED TO KSE ENGINEERING FOR REVIEW BEFORE ANY CONSTRUCTION BEGINS. THE SHOP DRAWINGS WILL BE REVIEWED FOR OVERALL COMPLIANCE AS IT RELATES TO THE STRUCTURAL DESIGN OF THIS PROJECT. VERIFICATION OF THE SHOP DRAWINGS FOR DIMENSIONS AND MATERIALS SHALL BE THE RESPONSIBILITY OF THE SER OR KSE ENGINEERING, P.C.
8. VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE RESPONSIBILITY OF THE SER. THE CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS FOR ALL STRUCTURAL ELEMENTS. COMPLIANCE TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
9. THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL ELEMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS. THIS REQUIREMENT AND ALL REQUIREMENTS SHALL APPLY TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL CODES OR RESTRICTIONS.
10. DO NOT SCALE DRAWINGS. WRITE ALL DIMENSIONS. TAKE PRECEDENCE IN ALL DIMENSIONS. DIMENSIONS TO FACE OF STUD OR TO FACE OF FRAMING UNLESS OTHERWISE NOTED.
11. WATERPROOFING AND FLASHING BY OTHERS.

1. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE BUILDING CODE.
2. THE DESIGNER SHALL BE RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM THE GEOTECHNICAL ENGINEER ON THE STUDY OF THE PROPOSED SITE TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.
3. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS SHALL BE AS SPECIFIED IN THE BUILDING CODE.
4. THERE SHALL NOT BE PERFORATION OF THE SURFACE INVESTIGATION. VERIFICATION OF THE ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER OR THE CONTRACTOR. SHOULD ANY ADVERSE SOIL CONDITION BE ENCOUNTERED, THE SUR MUST BE CONTACTED BEFORE PROCEEDING.
5. 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 SHALL HAVE A MINIMUM PROJECTION OF 2" ON EACH SIDE OF FOUNDATION WALLS. MAXIMUM FOOTING PROJECTION SHALL NOT EXCEED THE THICKNESS OF THE FOOTING.
6. WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH 3/4" DIAMETER BOLTS WITH 6" MINIMUM EMBEDMENT. SPACED A MAXIMUM OF 6" - 0" OC. MINIMUM 2" ANCHOR BOLTS PER SECTION, 12" MAXIMUM FROM CORNERS, 3/4" DIAMETER X 8" LONG SIMPSON TIE HD OR USP SCREW-BOLTS X SCREWS MAY BE SUBSTITUTED ON A 1 FOR 1 BASIS FOR CONCRETE FOUNDATIONS.
7. 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 DENSITY.
8. 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.
9. ALL EXCAVATIONS SHALL CONTAIN AN APPROPRIATE SUBGRADE CONTAINING WATER, ICE, FROST, OR LOOSE MATERIAL.
10. PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE SLOPE TO DRAINAGE AS REQUIRED BY SITE CONDITIONS (SEE ARCHITECTURAL PLANS AND DETAILS).
11. NONE OF THE FOUNDATION DESIGNS IN THESE DOCUMENTS ARE SUITABLE FOR INSTALLATION IN SHRINK/SWELL CONDITIONS. REFER TO GEOTECHNICAL ENGINEER FOR APPROPRIATE DESIGN.
12. LOT ELEVATION GRADING TO BE MAINTAINED 4" AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST TEN FEET.
13. GRADING TO BE MAINTAINED LEVEL AND CLEAR OF ALL DEBRIS. PROVIDE MINIMUM 6 MIL APPROVED VAPOR BARRIER. ALL JOINTS TO BE LAPPED MINIMUM 12" AND SEALED.

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) OF 3,000 POUNDS PER SQUARE INCH (20.7 MPa) AT 28 DAYS PER (ASTM C 39) (WEATHER). UNLESS OTHERWISE NOTED ON THE PLAN.

2. CONCRETE SHALL BE PROPORTIONED, MIXED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301: "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".

3. AIR ENTRAINMENT 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.

4. EXTERIOR SLABS ON GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITHOUT WRITTEN PERMISSION OF THE SER. WATER ALLOWED TO CONCRETE ON SITE SHALL NOT EXCEED THAT ADDED BY THE MIX DESIGN.

5. CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302.1R "GUIDE FOR CONCRETE SLAB AND SLAB CONSTRUCTION".

6. 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 12'-0" O.C. UNLESS OTHERWISE NOTED. CARE SHALL BE TAKEN TO AVOID RE-ENTRANT CORNERS.

7. CONTROL OR SAW CUT JOINTS SHALL BE PRODUCED USING CONCRETE CUT OR TOOLED WITH FINISHES WITHIN 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED.

8. REINFORCING STEEL MAY EXTEND THROUGH A SAW CUT JOINT.

9. ALL WELDED WIRE FABRIC (W.W.F.) FOR CONCRETE SLABS-ON-GRADE SHALL BE PLACED AT A MINIMUM OF 2" BELOW THE TOP SURFACE. IT SHALL BE SECURELY SUPPORTED DURING THE CONCRETE POUR. FIBROUS CONCRETE REINFORCEMENT, OR POLYPROPYLENE FIBERS MAY BE USED IN LIEU OF W.W.F. APPLICATION OF POLYPROPYLENE FIBERS PER CURING INSTRUCTIONS FOR CONCRETE SHALL BE USED. ALL SHALL 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 REINFORCING OLEFIN INTERPOLYMER AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT.

11. STEEL REINFORCING BAR SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.

12. REINFORCING 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".

13. HORIZONTAL FOOTING AND WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90 DEGREE BENDS, OR CORNER BENDS WITH THE SAME SIZE SPACING AS THE HORIZONTAL REINFORCEMENT.

14. PROVIDE REINFORCEMENT LAP AS NOTED BELOW, UNLESS NOTED OTHERWISE:

#4 BARS - 36" LENGTH
#5 BARS - 36" LENGTH
#6 BARS - 48" LENGTH

15. WHERE REINFORCING DOWELS ARE REQUIRED, THEY SHALL BE EQUIVALENT IN SIZE AND SPACING TO THE VERTICAL REINFORCEMENT. THE DOWEL SHALL EXTEND 50 BAR DIAMETERS VERTICALLY AND 20 BAR DIAMETERS HORIZONTALLY TO THE TOP OF THE FOOTING OR WALL.

16. WHERE FOOTING BOTTOMS ARE TO BE STEPPED AT SLOPING GRADE, PROVIDE CONTINUOUS REINFORCEMENT WITH Z BARS (TO MATCH FOOTING REINFORCING) AS REQUIRED.

17. WITH THE LATEST EDITION ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST EDITIONS OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, EXCEPT THAT REINFORCING SHALL BE CHARGED ON THE BOTTOM AND/OR THE SIDES ON BOLUSTERS SPACED NO MORE THAN 4 FEET ON CENTER. NO ROCKS, CUM, CLAY, TIE, OR OTHER DEBRIS SHALL BE ALLOWED TO SUPPORT REINFORCING.

18. FOR GRADE SUPPORTED SLABS, SLAB REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS AND ACCESSORIES AS DESCRIBED IN THE CROSS SECTION OF STANDARD PRACTICE FOR BAR SUPPORTS. BAR SUPPORTS SHALL BE SPACED A MAXIMUM OF 4'-0" O.C. BOTH WAYS IN STRAIGHT LINES ON THE MESH GRID.

1. ALL MASONRY SHALL CONFORM TO ASTM C-90, F=1500 PSI, ALL BRICK SHALL CONFORM TO ASTM C-216, F=1500 PSI, ALL MORTAR SHALL BE TYPE "S" (TYPE "M" BELOW GRADE) AND CONFORM TO ASTM C-270.
2. CONCRETE SHALL CONSUME TO ASTM C-476 WITH A MINIMUM AGGREGATE SIZE OF 3/4" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
3. ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530/ASCE 5/TMS 402 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1/ASCE 6/TMS 602.
4. THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED HOLLOW PIERS MAY EXCEED IF THE UNBUTTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION.
5. EACH CRAWL SPACE PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING AND EACH GROUND SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS. PLASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
6. TOP COURSE OF MASONRY SHALL BE GROUDED SOLID.
7. FOUNDATION WALL SHALL BE REINFORCED WITH EACH PIECE OF REINFORCEMENT LADDER OR TRUSS TYPE SPACED AT 16" O.C., UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
8. SPLICED WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 6" AND CANTED AT LEAST ONE CROSS WIRE WITH STANDARD "I" AND "L" SHAPED PIECES AT INTERSECTIONS AND CORNERS.

SOLID SAWN WOOD FRAMING MEMBERS SHALL CONFORM TO THE SPECIFICATIONS LISTED IN THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION": (NDS). UNLESS OTHERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGNED TO BE:

SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING MINIMUM DESIGN VALUES:
E=1,900,000 PSI, F_b =875 PSI, F_v =135 PSI

1.1. FRAMING: SPF #2.
1.2. PLATES: SPF #2.
1.3. STUDS: SPF STUD GRADE.
1.4. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED SOUTHERN YELLOW PINE #2 OR BETTER.

2. ANCHOR SILLS PLACED IN ACCORDANCE W/ GENERAL STRUCTURAL NOTES.
4. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY BE SUBSTITUTED AS NECESSARY BASED ON CASE OF CONSTRUCTION.
5. NAILS SHALL BE COMMON WIRE NAILS UNLESS OTHERWISE NOTED.
6. BOLT HOLES AND LEAD HOLES FOR LAG SCREWS SHALL BE IN ACCORDANCE WITH NDS SPECIFICATIONS.
7. NONWIND-RESISTANT COLUMNS SHALL BE ATTACHED WITH (2) ROWS 14" NAILS @ 6" O.C. STAGGERED. THE STUD COLUMN SHALL BE FULLY BLOCKED AT ALL FLOOR LEVELS TO ENSURE PROPER LOAD TRANSFER. WALL SHEATHING SHALL BE NAILED TO EDGE OF EACH STUD.
8. WALLS SHALL BE MULTIPLE BEAM CASE OF CONSTRUCTION. (2) ROWS 16d COMMON NAILS @ 16" O.C. STAGGERED, OR PER MANUFACTURER'S SPECIFICATIONS FOR ENGINEERED LUMBER, APPLY NAILING FROM BOTH FACES FOR (3) OR MORE PILES.
9. FASTEN 4-PLY BEAMS WITH (1)" $\frac{1}{2}$ " DIAMETER THROUGH BOLT W/ NUT WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, (2)" MINIMUM EDGE DISTANCE. (UNLESS OTHERWISE NOTED).
10. 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: 24" O.C. STUD SPACING:
(1) STUD UP TO 3' OPENING (1) STUD UP TO 4' OPENING -
(2) STUDS UP TO 4' OPENING (2) STUDS UP TO 6' OPENING -
(3) STUDS UP TO 8' OPENING (3) STUDS UP TO 12' OPENING -
(4) STUDS UP TO 12' OPENING (4) STUDS UP TO 16' OPENING -
(5) STUDS UP TO 16' OPENING (5) STUDS UP TO 16' OPENING

12. ALL BEAMS TO BE CONTINUOUSLY SUPPORTED Laterally AND SHALL BE FULLY BUILT UP ON SUPPORTING WOOD COLUMN AS INDICATED. WITH A MINIMUM OF TWO STUDS UNLESS OTHERWISE NOTED. ALL BEAM SPLICES SHALL OCCUR OVER SUPPORTS.

13. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR JOISTS. SEE FOUNDATION FOR MORE INFORMATION.

14. ALL LUMBER SPECIFIED ON DRAWINGS IS INTENDED FOR DRY USE ONLY (MOISTURE CONTENT <19%) UNLESS OTHERWISE NOTED.

15. ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS.

16. ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE ROLES IN THE CENTER OF THE STUD UP TO 1" DIAMETER SHALL HAVE STUD PROTECTION SHIELDS. ALL HOLES OVER 1" IN DIAMETER FOR PLUMBING SHALL BE REINFORCED WITH 2" MIN. STEEL OR USP ST1 STUD SHOES, TYPICAL, UNLESS OTHERWISE NOTED.

17. BEARING WALLS SHALL BE SHEATHED ON NOT LESS THAN ONE SIDE WITH 1/2" OSB OR GYPSUM BOARD. BRIDGING SHALL BE INSTALLED NOT GREATER THAN 4 FEET APART AND SHALL BE VERTICALLY FROM EITHER END OF THE STUD IN LEAF OF SHEATHING.

1. 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.
2. PRESERVATIVE TREATED WOOD FRAMING TO BE SOUTHERN YELLOW PINE #2 OR BETTER.
3. GUARD RAILS AND LATERAL BRACING IS REQUIRED AT DECKS. DESIGN BY OTHERS.
4. PROVIDE DECK LATERAL LOAD CONNECTIONS PER BUILDING CODE.

1. PROVIDE 2x4x4"-0" RAFTERS TIED AT 50' O.C.
2. RAFTERS SHALL BE SUPPORTED BY PURLINS AND PURLIN BRACES AS SHOWN ON THE PLAN. PURLIN BRACES SHALL NOT BEAR ON ANY CEILING JOIST, STRINGBARK OR HEADER UNLESS SPECIFICALLY SHOWN ON PLAN. RAFTERS SHALL BE SPACED AT 4' ON PLAN LOCATIONS.
3. CEILING JOISTS SHALL HAVE LATERAL SUPPORT W/ 1x4 FLAT BRACING ON TOP EDGE 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.
4. FASTEN ENDER AND CEILING JOIST WITH (6) 12d NAILS UNLESS OTHERWISE NOTED.
5. PROVIDE VERTICAL 2x6 STRINGBARKS AT CEILING JOISTS @ 8'-0" O.C. THE STRINGBARK ENDS TO GABLE STUDS OR RAFTERS WHERE POSSIBLE. PROVIDE BLOCKING BETWEEN TOP PLATES AND STRINGBARKS. PROVIDE 2x6 JOIST BRACING AT EACH JOIST WITH (2) 12d NAILS. FASTEN STRINGBARK TO 2x4 FLAT WITH 12d NAILS @ 12" O.C. AND FASTENED TO EACH JOIST WITH (1) 12d TENDAL.

1. 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. 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.
2. 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 ON THIS PROJECT. THE TRUSS DESIGN SHALL BE LIMITED TO HVAC EQUIPMENT, PIPING, AND ARCHITECTURAL FIXTURES ATTACHED TO THE TRUSSES.
3. THE TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISI/TPI-1, NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION".
4. THE TRUSS MANUFACTURER SHALL PROVIDE ADEQUATE BRACING INFORMATION IN ACCORDANCE WITH "BUILDING COMMISSION SAFETY INFORMATION GUIDE TO GOOD PRACTICE FOR BRACING, INSTABILITY, RESTRAINTS & BRACING OF METAL ROOF TRUSSES AND WOOD TRUSSES" (S1). 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.
5. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING TEMPORARY BRACING AND PERMANENT BRACING AS REQUIRED. THE CONTRACTOR SHALL, DURING CONSTRUCTION, AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE LATEST IBC. THE CONTRACTOR SHALL KEEP A COPY OF THE BCI SUMMARY SHEETS ON SITE.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL PERMANENT TRUSS BRACING SHOWN IN THE STRUCTURAL DRAWINGS AND IN THE TRUSS DESIGNS. ALL CONTINUOUS LATERAL BRACING OF WSSS REQUIRES BRACING. REFER TO BCI SUMMARY SHEET B3 FOR TYPES OF DIAGONAL BRACING TO PROVIDE AT EACH CONTINUOUS LATER BRACE LINE. SUCH DIAGONAL BRACING SHALL BE FASTENED TO EACH TRUSS WEB WITH A MINIMUM OF TWO 10d FACE NAILS. WHERE CONTINUOUS LATERAL BRACING CANNOT BE INSTALLED, DUE TO A MINIMUM OF THREE ADJACENT BRACES BEING INSTALLED, THE CONTRACTOR SHALL COORDINATE WITH THE TRUSS SPECIALTY ENGINEER/MANUFACTURER TO DETERMINE WHAT TYPE OF ALTERNATE BRACE (I.E., T OR L BRACE, ETC.) IS REQUIRED.
7. ANY CHORDS OR TRUSS WEBS SHOWN ON THESE DRAWINGS HAVE BEEN SHOWN WITH REFERENCE ONLY TO THE FINAL DESIGN OF THE TRUSSES SHALL BE PER THE MANUFACTURER.
8. 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.
9. TRUSS MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTORS FOR ALL TRUSSES.
10. PROVIDE BRIMSON H2.5A, USP R177 OR EQUIVALENT AT EACH TRUSS TO TOP PLATE CONNECTION, UNLESS OTHERWISE NOTED.

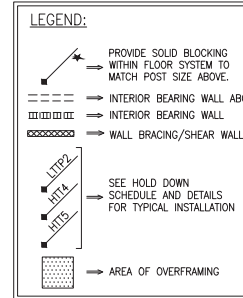
1. FABRICATION AND PLACEMENT OF STRUCTURAL WOOD SHEATHING SHALL BE IN ACCORDANCE WITH THE APA DESIGN/CONSTRUCTION GUIDE "RESIDENTIAL AND COMMERCIAL," AND ALL OTHER APPLICABLE AREA STANDARDS.
2. ALL STRUCTURALLY REQUIRED WOOD SHEATHING SHALL BEAR THE MARK OF THE APA.
3. WOOD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOGIC FOR FRAMING FOR EXTERIOR WALLS. STARTING CONDITIONS FOR THESE DRAWINGS, REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION. EXTERIOR WALLS TO BE FULLY SHEATHED USING ¾" OSB OR PLYWOOD MINIMUM. AT BRACED WALL PANELS, PROVIDE BRACING ALONG ALL JOINTS PERPENDICULAR TO STUDS OR PLATES. BRACING AT HORIZONTAL JOINTS SHALL NOT BE NEEDED IN WALL SEGMENTS NOT COUNTED AS BRACED WALL PANELS.
4. ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ROOF SHEATHING SHALL BE CONTINUOUS OVER TWO SUPPORTS MINIMUM AND ATTACHED TO ITS SUPPORTING ROOF FRAMING WITH 8d NAIL AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE DRAWINGS. SHEATHING SHALL BE APPLIED WITH THE LONG DIRECTION PERPENDICULAR TO FRAMING. SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPLICING. PROVIDE SUITABLE EDGE SUPPORT BY USE OF PLYWOOD OR LUMBER BROWLERS UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING. ROOF SHEATHING TO BE ¾" OSB MINIMUM.
5. 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 SPLICING. PROVIDE SUITABLE EDGE SUPPORT BY USE OF TAG PLYWOOD OR LUMBER BROWLERS UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING.
6. SHEATHING SHALL HAVE AN OVERHANG OF 6" AT EAVES AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE APA.

1. STRUCTURAL FIBERBOARD SHEATHING SHALL ONLY BE USED WHERE SPECIFICALLY NOTED ON THE STRUCTURAL PLANS.
2. FIBERBOARD AND FIBERBOARD SHEATHING SHALL BE IN ACCORDANCE WITH THE APPLICABLE ALFA STANDARDS.
3. 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.
4. SHEATHING SHALL HAVE A $\frac{1}{8}$ " GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE ALFA.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL 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.
2. ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS (F_y) OF 50 KSI.
3. ALL WELDERS MUST BE CERTIFIED TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWI D1.1. ELECTRODES FOR SHOP AND FIELD WELDING SHALL BE AS LISTED IN THE ALFA. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS.
4. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3ϕ AND FULL FLANGE WIDTH UNLESS OTHERWISE NOTED. REINFORCING BARS SHALL BE AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR $(2) \frac{1}{2}" \times 4"$ LAG SCREWS UNLESS OTHERWISE NOTED.
5. INSTALL 2X WOOD PLATE ON TOP OF STEEL BEAMS, RIPPED TO MATCH BEAM WIDTH. FASTEN PLATE TO BEAM W/ 18LTS X-18 @ 5d PINS AT 12" O.C. STAGGERED OR $\frac{1}{2}"$ DIAMETER BOLTS AT 24" O.C.

1. ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG-TIE OR APPROVED EQUIVALENT.
2. ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 153, G-185.
3. 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.

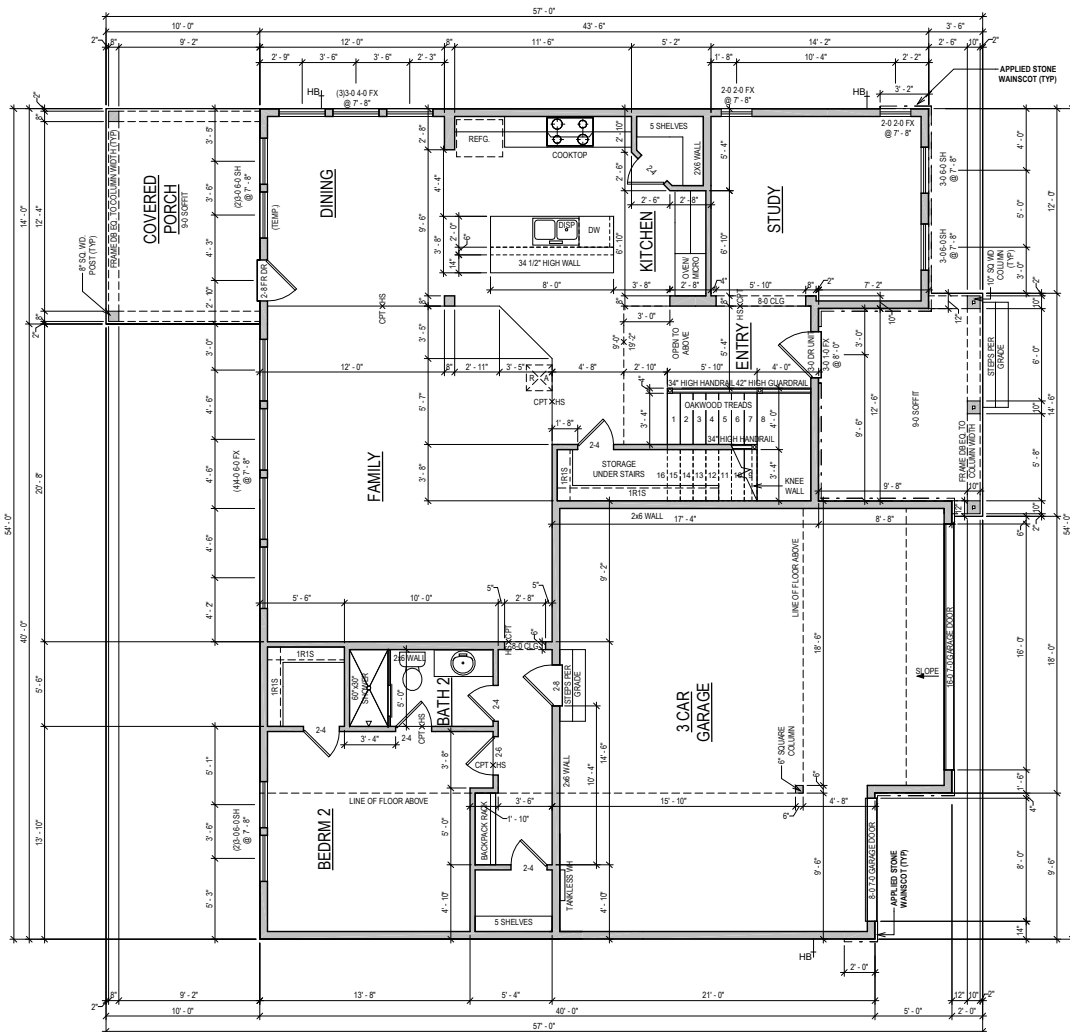


SPAN	LINTEL SIZE	END BEARING
UP TO 3'-0"	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$ "	4"
UP TO 6'-3"	$5 \times 3\frac{1}{2} \times \frac{1}{2}$ " L.L.V.	8"
UP TO 9'-6"	$6 \times 3\frac{1}{2} \times \frac{1}{2}$ " L.L.V.	12"

LINTELS ARE NOT DESIGNED TO BE BOLTED TO HEADERS UNLESS SPECIFIED ON UNIT PLANS.

SPANS OVER 4'-0" SHALL BE SHORED UP UNTIL CURED.





FIRST FLOOR

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

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

PLAN SQFT	
LIVING	
1ST FLOOR	1584 SF
2ND FLOOR	1612 SF
TOTAL LIVING	3196 SF
SLAB	
1ST FLOOR	1584 SF
COVERED PORCH	140 SF
FRONT PORCH	130 SF
GARAGE	671 SF
TOTAL SLAB	2524 SF
FRAMING	
1ST FLOOR	1584 SF
2ND FLOOR	1540 SF
COVERED PORCH	140 SF
FRONT PORCH	130 SF
GARAGE	671 SF
TOTAL FRAMING	4074 SF

OPTION LIST
BATHROOM & BATH 1
2ND BATH & BATH 2
2ND BATH & BATH 3
STAIRS - HAND RAIL FACE TREADS
RAILING @ STAIRS
COUNTERTOP @ UTILITY
SWIM @ UTILITY
COVERED PORCH

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

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

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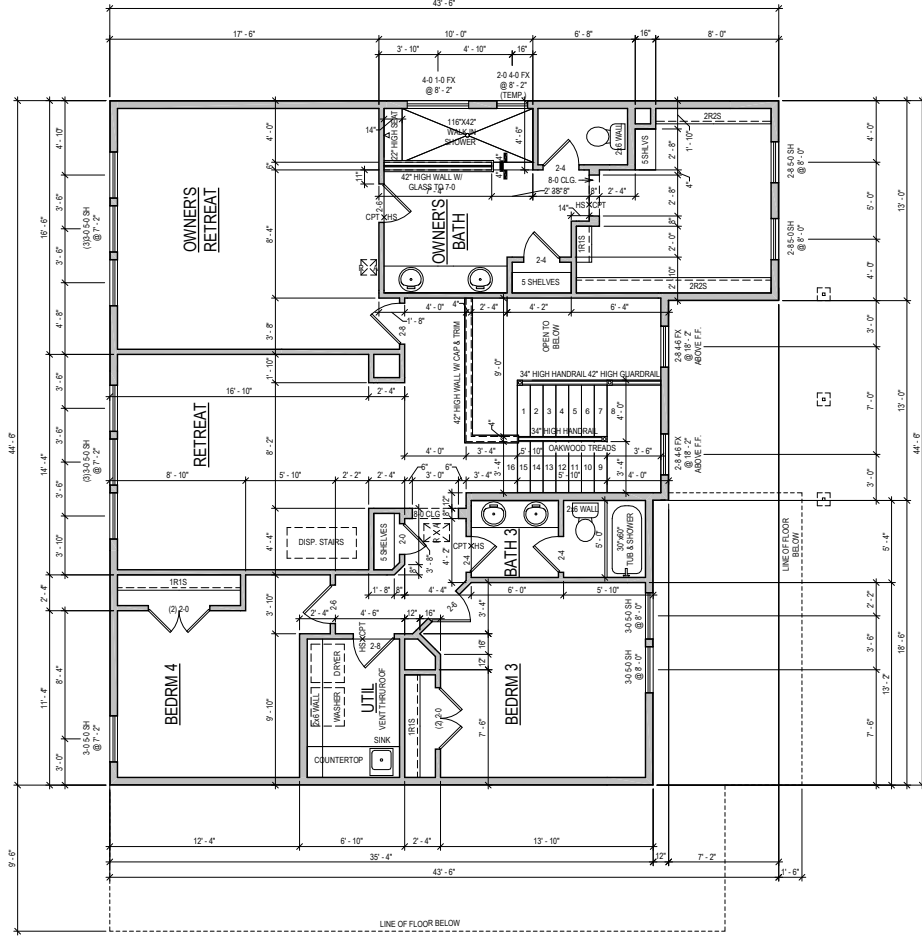
David Weekly Homes
CN/AFSG
Date: 10/02/2020
Scale: 1/8"=1'-0"
Rev: 1/6/25 EB

1016
Proj. No.:
3277
Lot:
1016
Job No.:
1016
Block:
1016
Sect:

SERENITY 65' SEL
1229 SERENITY WALK PARKWAY
FUQUAY VARINA, NC

SOUTH
B330-A
PLN-1
RANS DALL
RALEIGH

□ □

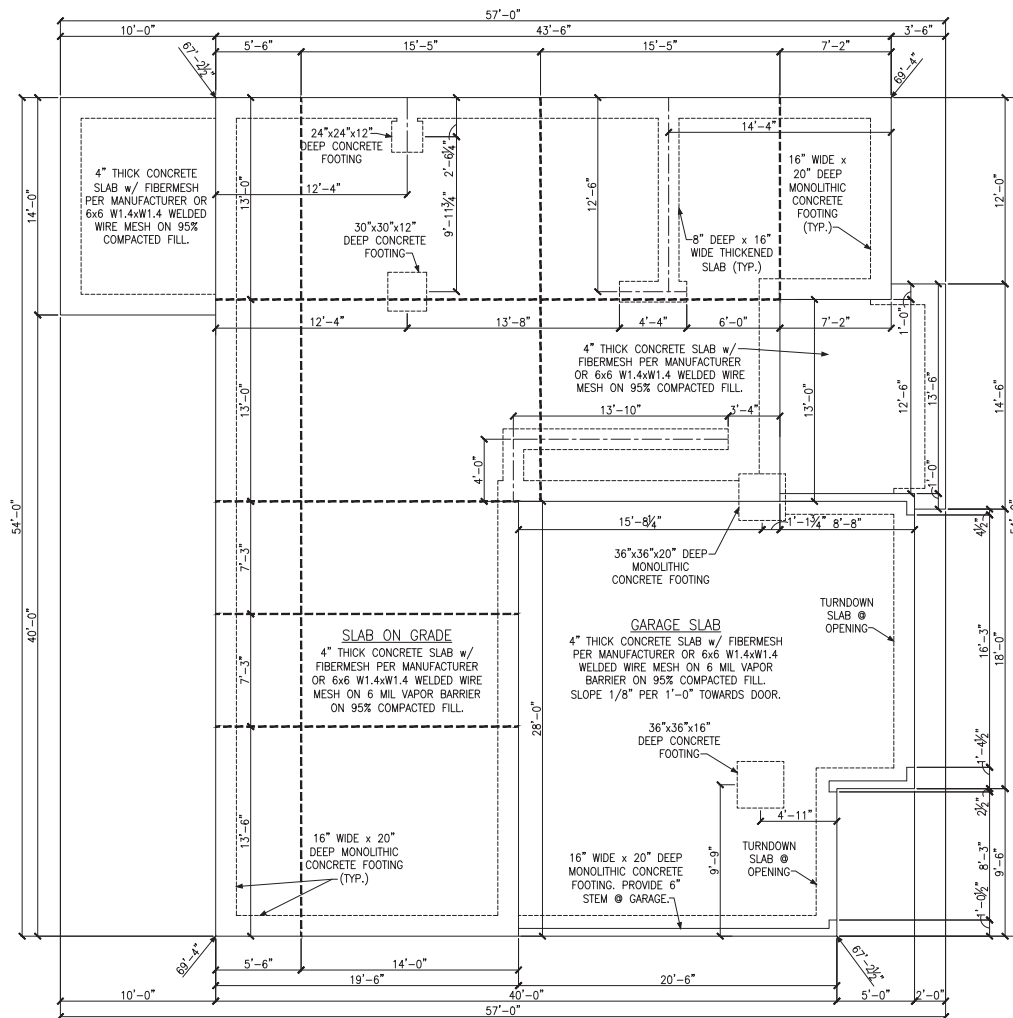


SECOND FLOOR

NOTE: ALL 2ND FLR. CEILING HEIGHTS
9' - 0" UNLESS NOTED OTHERWISE

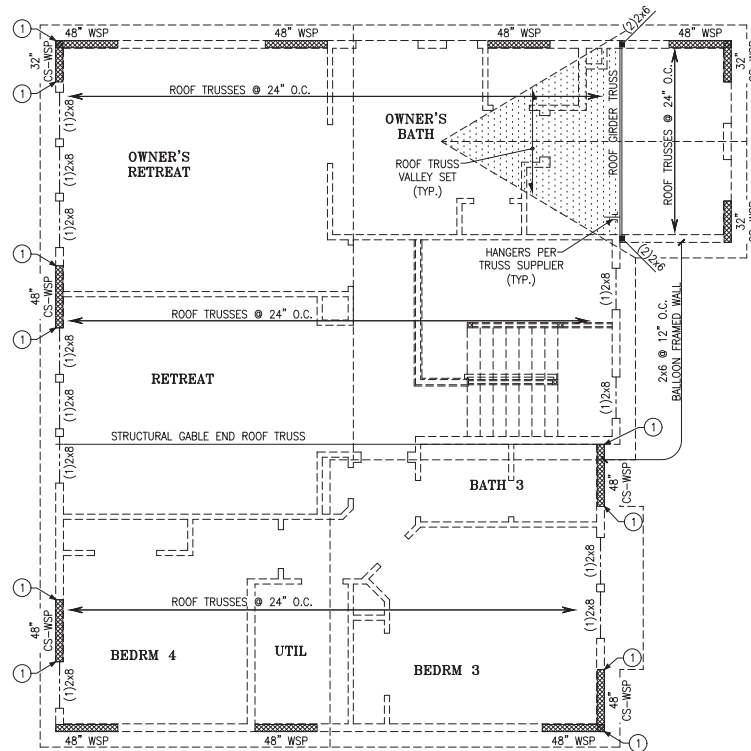
ADVANCED FRAMING: 2X6 EXTERIOR
PERIMETER WALLS & ALL INSULATED
WALLS UNLESS NOTED OTHERWISE

SOUTH B330-A PLN-2	SERENITY 65' SEL 1229 SERENITY WALK PARKWAY FUQUAY VARINA, NC	Proj. No.: 1016	Lot: 1016	© Weekly Homes L.P. 2025 The measurements, dimensions, and other specifications shown on this document are guidelines for construction use only. They are not to be used for legal purposes. The actual construction may vary. This document may not be relied on as a representation of what the completed structure will look like.
		Job No.: 1016	Block: -	
RANSDALE RALEIGH		Date: 10/02/2020		Rev: 1/6/25 EB



MONOLITHIC SLAB FOUNDATION PLAN

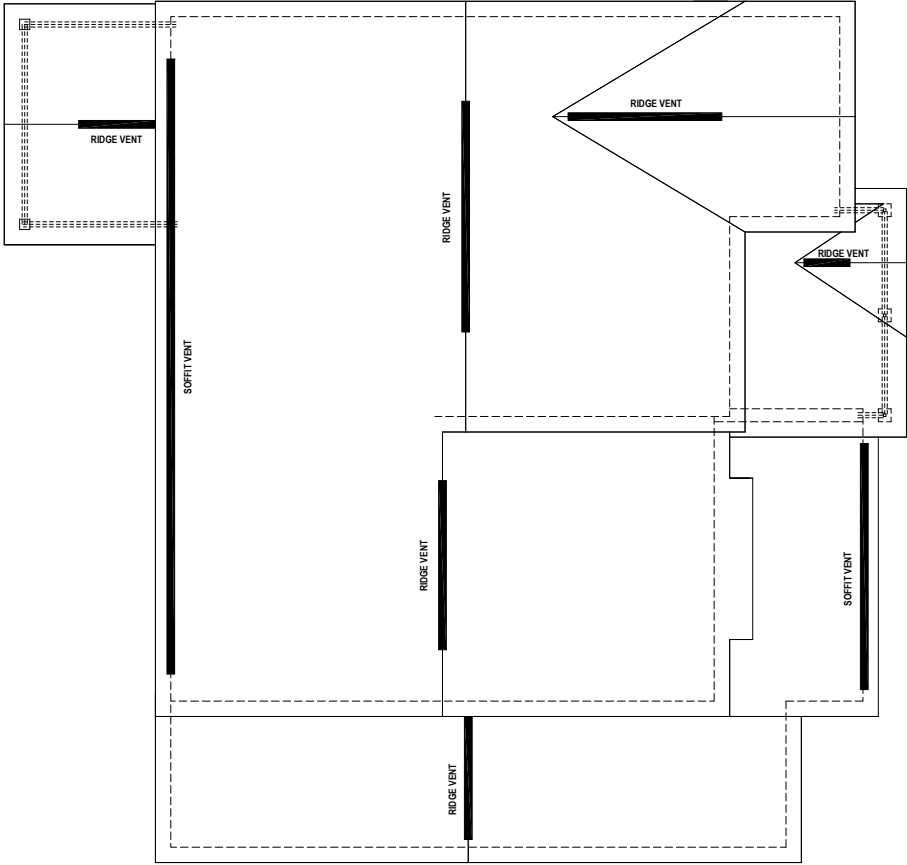




ROOF FRAMING PLAN

LEGEND	
	PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
	BEARING WALL ABOVE
	INTERIOR BEARING WALL
	BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES, TYPICAL DETAILS AND ADVANCED FRAMING NOTES AND DETAILS	
PLAN DESIGNED WITH 9\"/>	
KEYNOTES:	
①	AT RAISED FLOOR BELOW, CONNECT STUD AT END OF BRACED WALL PANEL TO FRAMING BELOW WITH A 30\"/>





ROOF PLAN CALCS

ROOF VENT CALCULATION:
 ATTIC SPACE: 2534 SQ.FT.
 REQUIRED VENTILATION: 1216 SQ.IN. REQ.

SOFFIT VENT PROVIDED: 56 LINEAL FEET
 RIDGE VENT PROVIDED: 52 LINEAL FEET
 AIR HAWK VENT PROVIDED: 0 UNITS

PROVIDED VENTILATION: 1216 SQ.IN.

50-80% IN UPPER PORTION: 77%

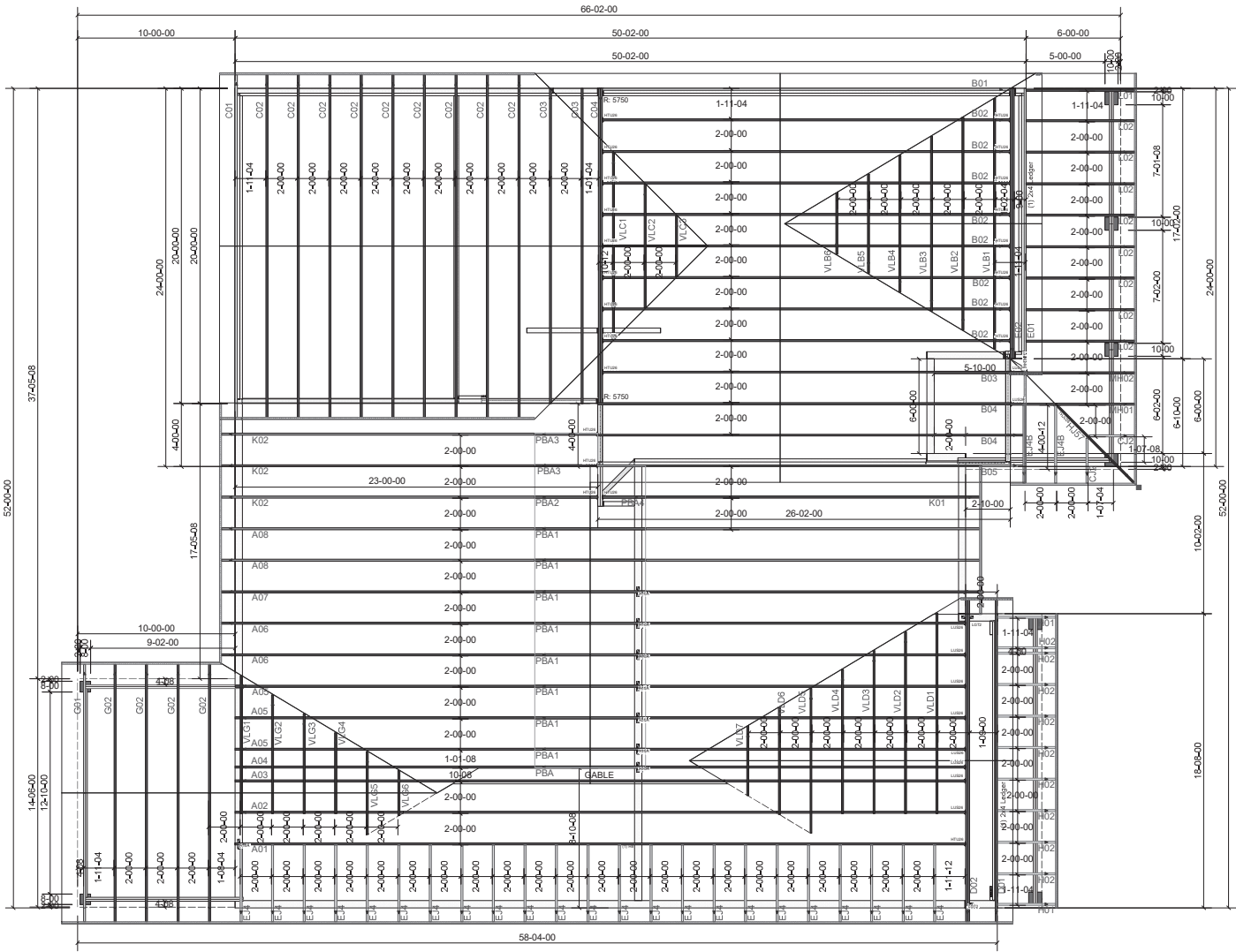
General Notes: ** CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION. ** ALL BEARING POINTS MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS.

** FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS. ** DAMAGED COMPONENTS SHOULD NOT BE INSTALLED UNLESS TOLD TO BY THE COMPONENT PLANT. ** TRUSSES TO TRUSS CONNECTIONS ARE TOE-MAILED, UNLESS NOTED OTHERWISE.



Truss Drawing Left End Indicator

** TRIANGULAR SYMBOL NEAR END OF TRUSS INDICATES LEFT END OF TRUSS AS SHOWN ON INDIVIDUAL TRUSS DRAWINGS. ** PLUMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN. BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES. ** REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS.



Truss Connector Total List		
Manuf	Product	Qty
Simpson	H10A	8
Simpson	HTU26	22
Simpson	LGT2	2
Simpson	LUS26	10
Simpson	One H2.5A	87

ALL UPLIFT CONNECTORS ARE ONE H2.5A, UNLESS OTHERWISE NOTED ON LAYOUT.

Revisions	
00/00/00	Name
00/00/00	Name
00/00/00	Name
00/00/00	Name
00/00/00	Name

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for the design of the building structure, including the truss support systems and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. These trusses are available from the Truss Plant, 953 D'Onofrio Drive, Madison, WI 53719.



David Weekley Homes

1016 Serenity-Roof-330 A CP
LH

ROOF PLACEMENT PLAN

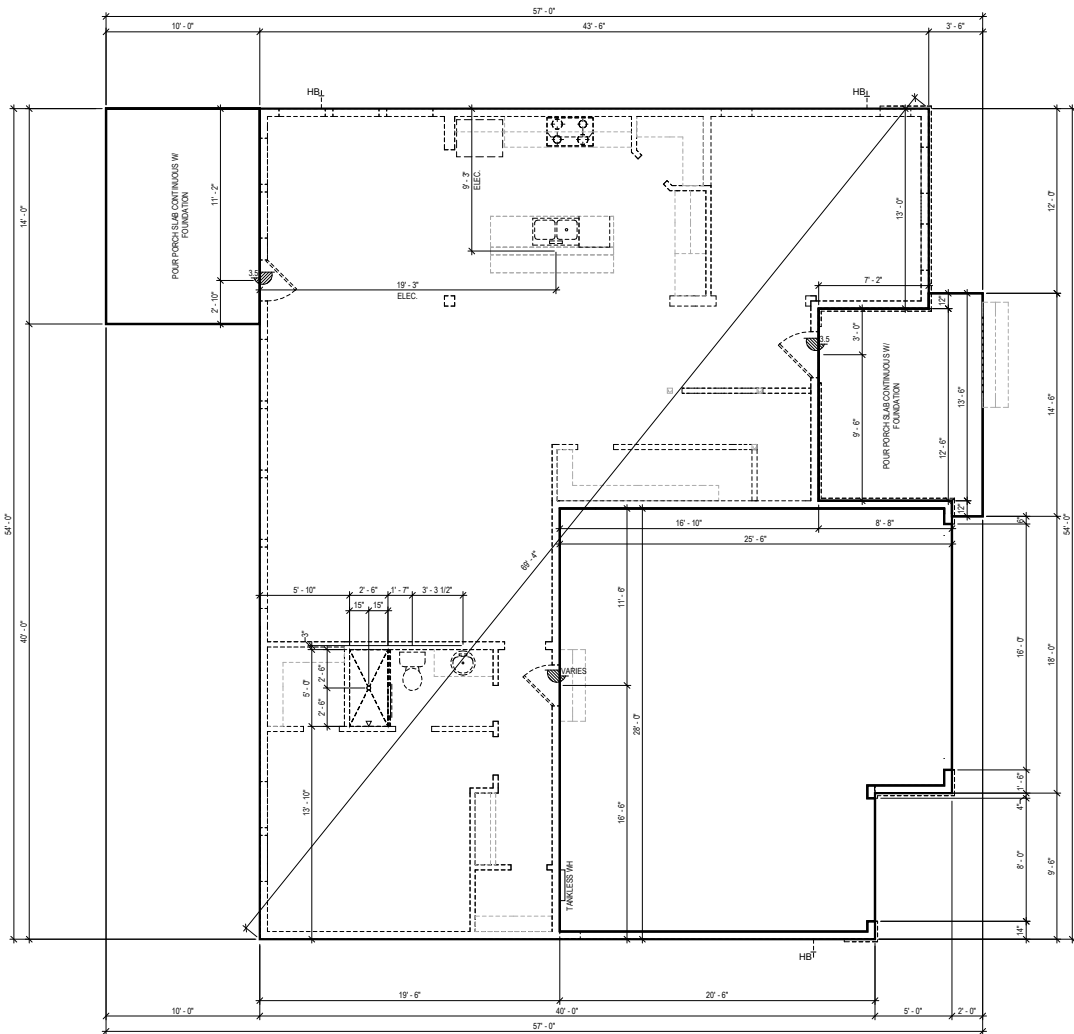
Scale: NTS

Date: 9/29/2025

Designer: Nick Darr

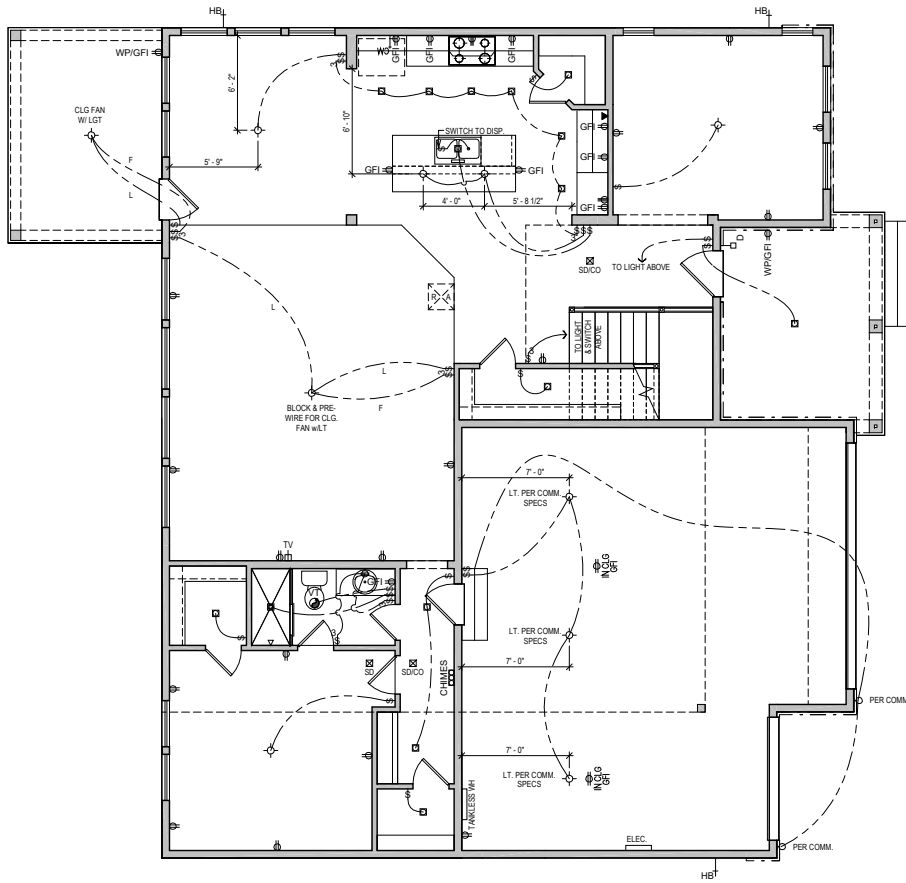
Project Number: 25070208-01

Sheet Number: 1/1



FIRST FLOOR

SEE ENGINEERING FOR ANCHOR BOLT REQUIREMENTS



FIRST FLOOR

UTILITY LEGEND	
110V OUTLET 12" A.F.F. (U.N.O.)	ELEVATOR CALL BUTTON
GROUND FAULT INTERRUPTOR (WEATHER PROOF AS NOTED)	RECESS CAN LIGHT (EYEBALL AS NOTED)
1/2" HALF HOT OUTLET	VT EXHAUST VENT
220V OUTLET (36" A.F.F. @ UTILITY)	SD SMOKE DETECTOR (CARBON MONOXIDE AS NOTED)
PHONE LINE	D DOOR BELL
CABLE TELEVISION	CHIMES DOOR BELL CHIMES
STANDARD SWITCH (3 OR 4 WAY AS NOTED)	ELEC PANELBOARD W/ CIRCUIT BREAKERS
SURFACE MOUNTED LIGHT	HB HOSE BIB
SURFACE MOUNTED LED LED DISC LIGHT	GAS GAS TAP
WALL MOUNTED LIGHT	CW, HW COLD/HOT WATER SUPPLY

CITY SPECIFIC	
VT	RECESS CAN EXHAUST VENT COMBO

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

IN ALL HABITABLE ROOMS
LIGHT BOXES MUST BE FAN
RATED

MID-ATLANTIC General Notes

- ALL ELECTRICAL PLUGS TO BE 9" TO TOP FROM FLOOR IN ROOMS WITH WALL MOUNTING.
- SWITCH FOR ATTIC LIGHT TO BE LOCATED OUTSIDE OF ATTIC SPACE, 12 INCHES FROM CEILING.
- DO NOT RUN WIRES ON TOP OF JOISTS IN AREAS LIKELY TO HAVE DECKING IN ATTIC. (near disappearing stam)
- PROVIDE SMOKE DETECTORS IN EVERY BEDROOM. SEE SPECS FOR REQUIRED TYPE AND WIRING.
- PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.
- LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.

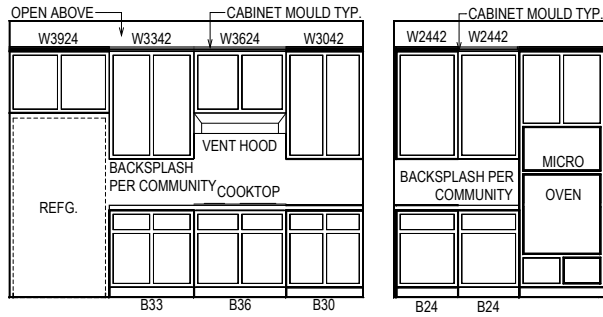
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Date: 10/02/2020
Scale: 1/8"=1'-0"
Rev: 1/6/25 EB

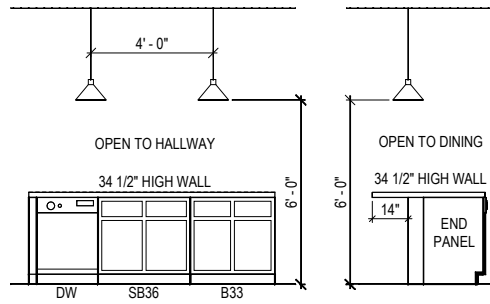
Proj. No.: 1016
Lot: 3277
Block: -
Job No.: 1016
Sect: -

SERENITY 65' SEL
1229 SERENITY WALK PARKWAY
FUQUAY VARINA, NC

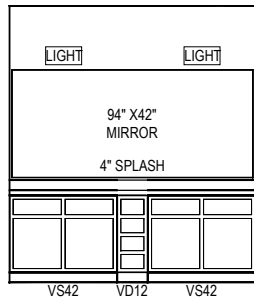
SOUTH
B330-A
ELE-1
RANS DALL
RALEIGH



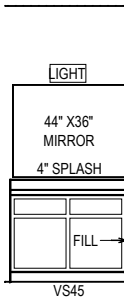
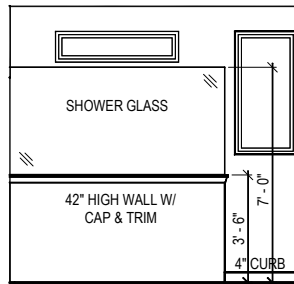
KITCHEN



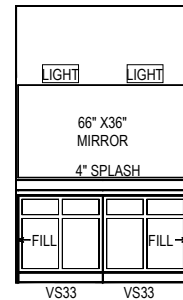
ISLAND



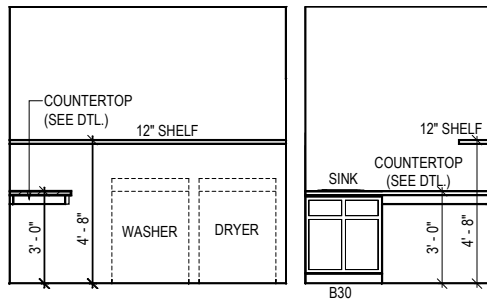
OWNER'S BATH



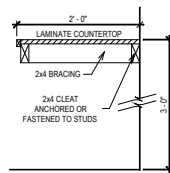
BATH 2



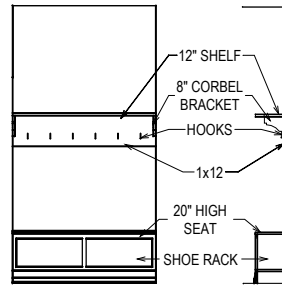
BATH 3



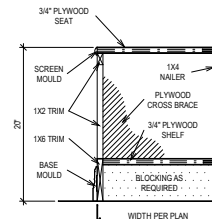
UTILITY



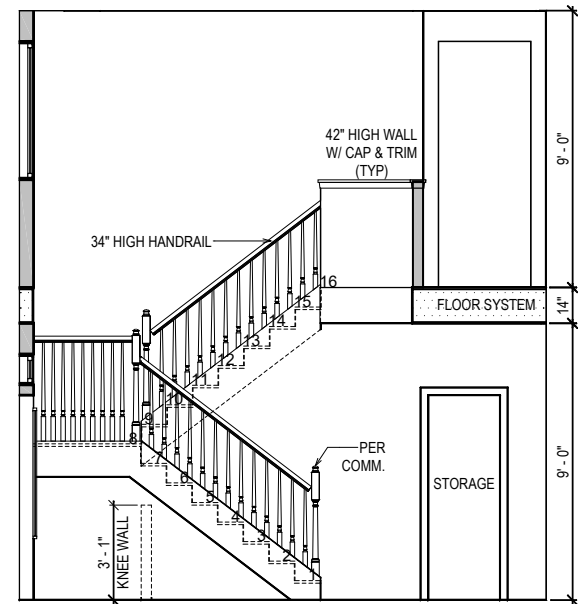
COUNTERTOP DETAIL
SCALE: 1/2" = 1'-0"



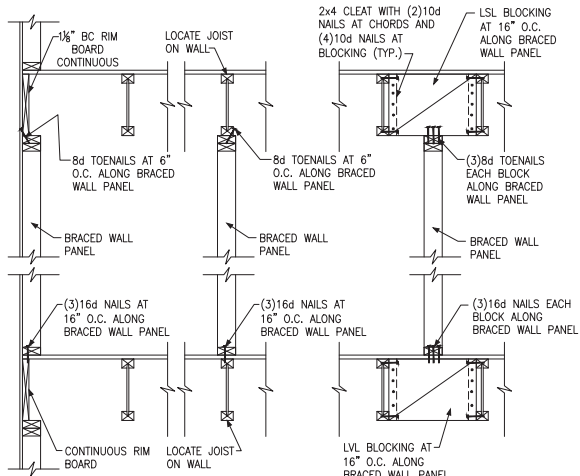
BACKPACK RACK



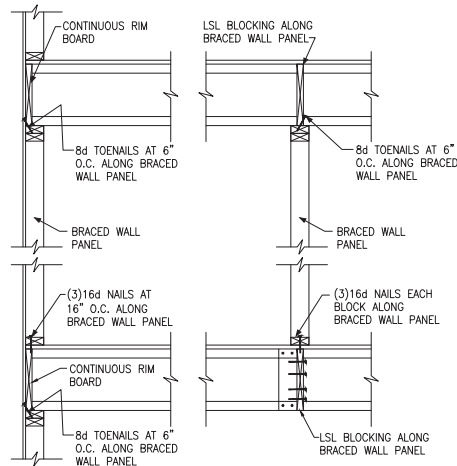
SEAT DETAIL
SCALE: 3/4" = 1'-0"



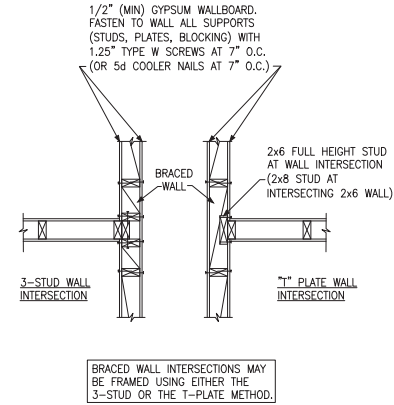
STAIR SECTION



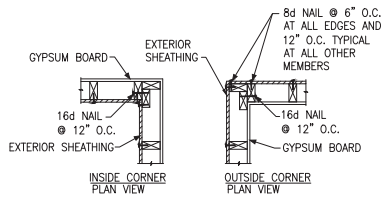
A TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION
BRACED WALL PANELS PARALLEL TO I-JOISTS



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

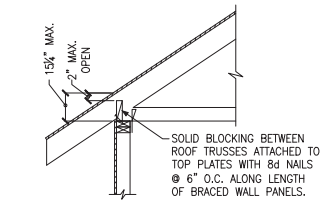


C METHOD GB(1) AND GB(2) INTERSECTION DETAILS

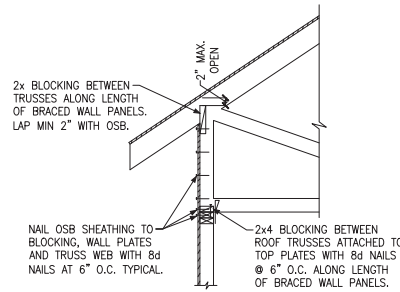


D TYPICAL EXTERIOR CORNER WALL FRAMING

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



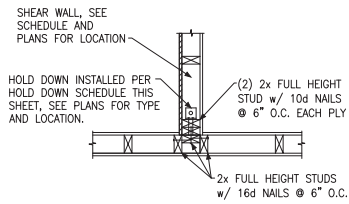
HEEL HEIGHT GREATER THAN 9 1/4" AND LESS THAN 15 1/4"



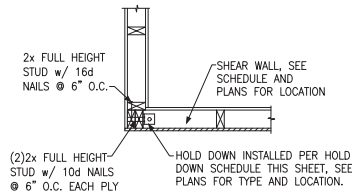
HEEL HEIGHT GREATER 15"

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

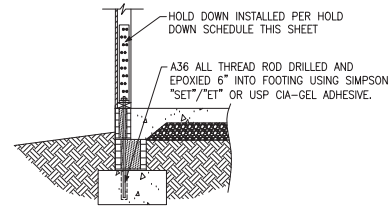




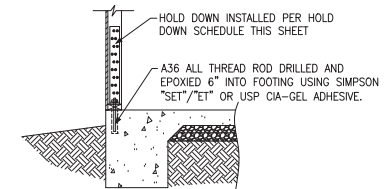
(A) TYPICAL HOLD DOWN DETAIL



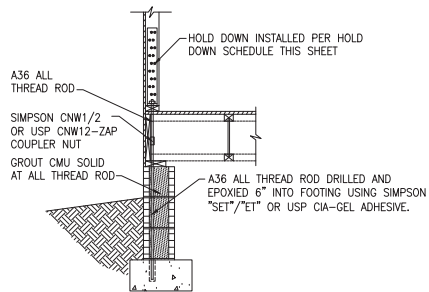
(B) TYPICAL HOLD DOWN DETAIL



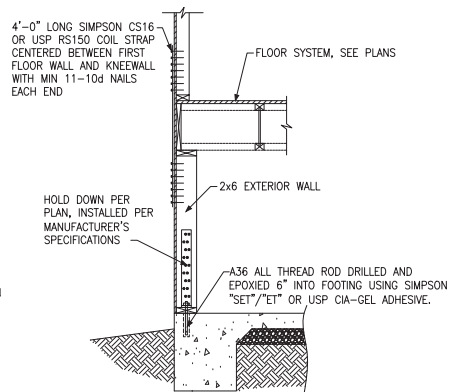
(C) HOLD DOWN AT STEMWALL SLAB



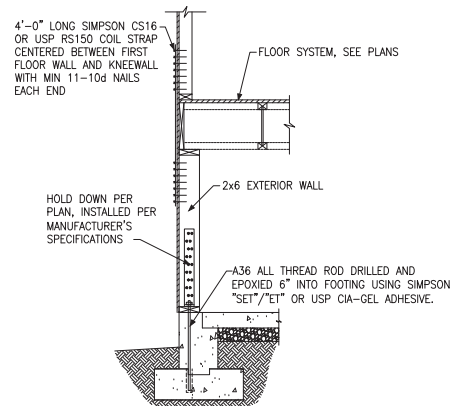
(D) HOLD DOWN AT MONOLITHIC SLAB



(E) HOLD DOWN AT CRAWL FOUNDATION



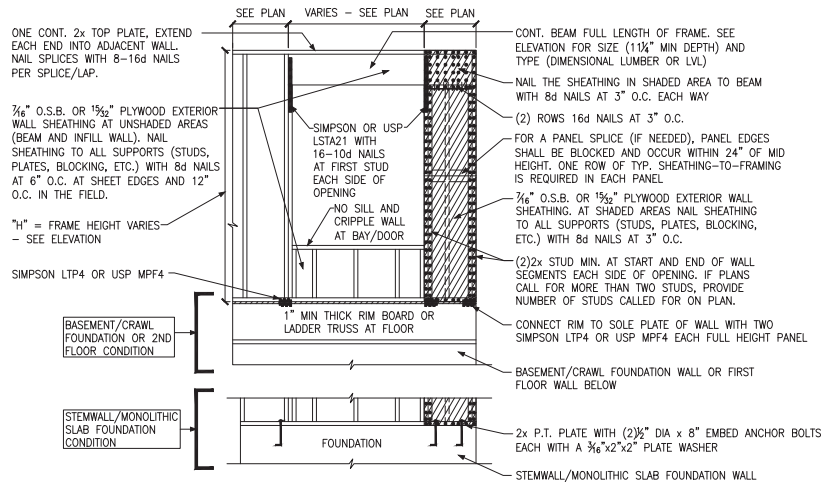
(F) HOLD DOWN AT FOUNDATION MONOLITHIC TURN-DOWN



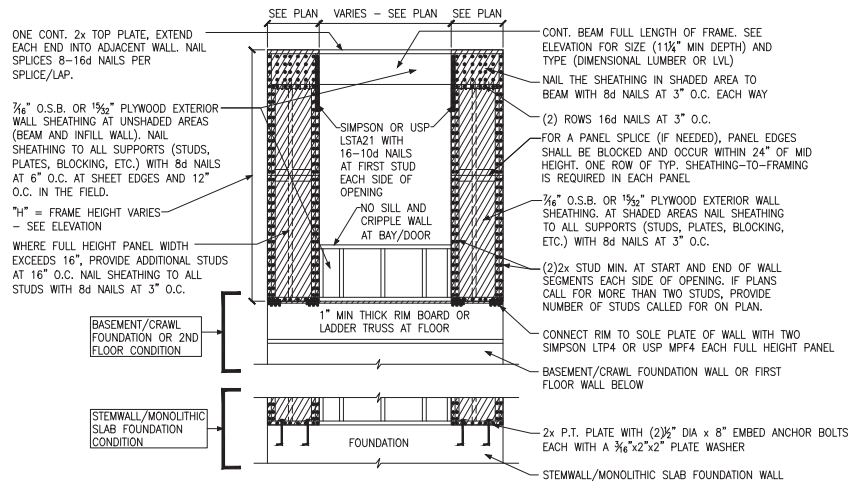
(G) HOLD DOWN AT FOUNDATION STEM WALL

HOLD DOWN SCHEDULE			
HOLD DOWN		ALL TREAD ROD	FASTENERS
SIMPSON	USP		
LTP2	LTS20B	1/2" DIA.	(10)10d NAILS
HTT4	HTT16	3/8" DIA.	(18)16dx2 1/2" LONG NAILS
HTT5	HTT45	3/8" DIA.	(26)16dx2 1/2" LONG NAILS

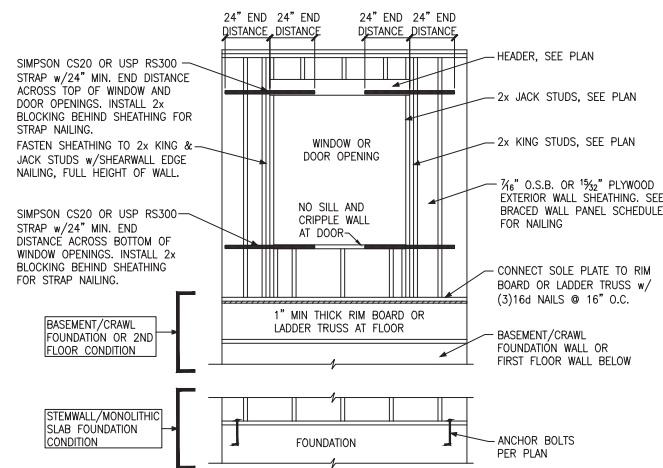




A METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
ONE BRACED WALL SEGMENT



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

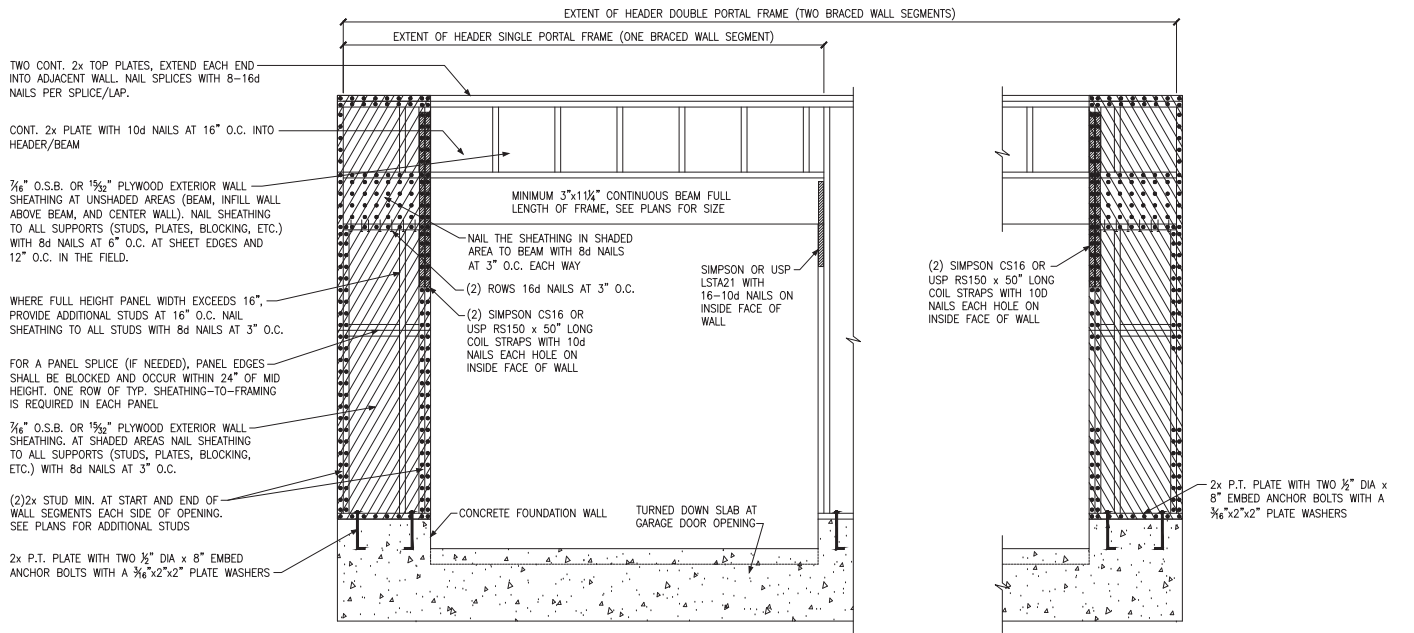


C WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL
ONLY REQUIRED WHERE SPECIFIED ON PLANS

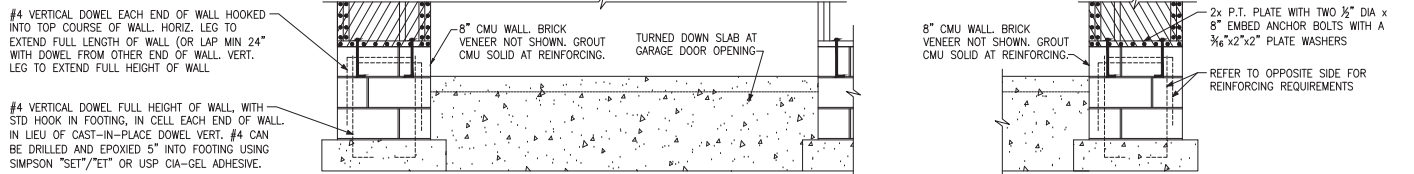
BRACED WALL PANEL AND ENGINEERED SHEAR WALL SCHEDULE			
PANEL TYPES	PANEL TYPE	MATERIAL	FASTENERS
WSP	INTERMITTENT WOOD STRUCTURAL PANEL	7/16" OSB	6d or 8d COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS
GB(1)	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GAL. 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 GAL. 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 GAL. 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:

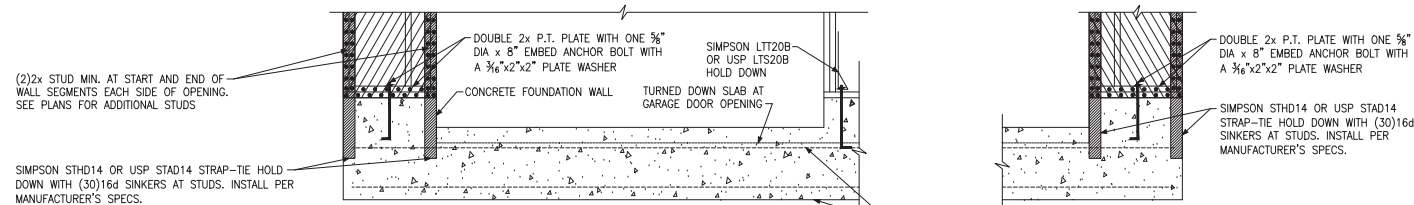
- ALL BRACED WALL PANELS SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES, EXCEPT INTERMITTENT GYPSUM BOARD PANEL TYPES INSTALLED HORIZONTALLY.
- PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.
- SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH 1/4" O.S.B., OR 1/2" 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.



A METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
MONOLITHIC SLAB OR BASEMENT FOUNDATION

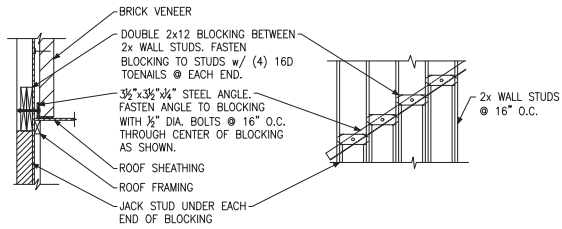


B METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
STEMWALL SLAB OR CRAWL SPACE FOUNDATION



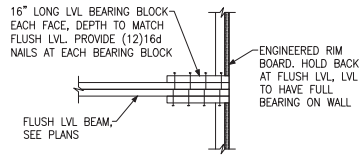
C METHOD CS-EPF: ENGINEERED PORTAL FRAME WITH HOLD-DOWNS



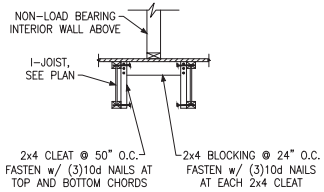


SECTION VIEW ELEVATION VIEW

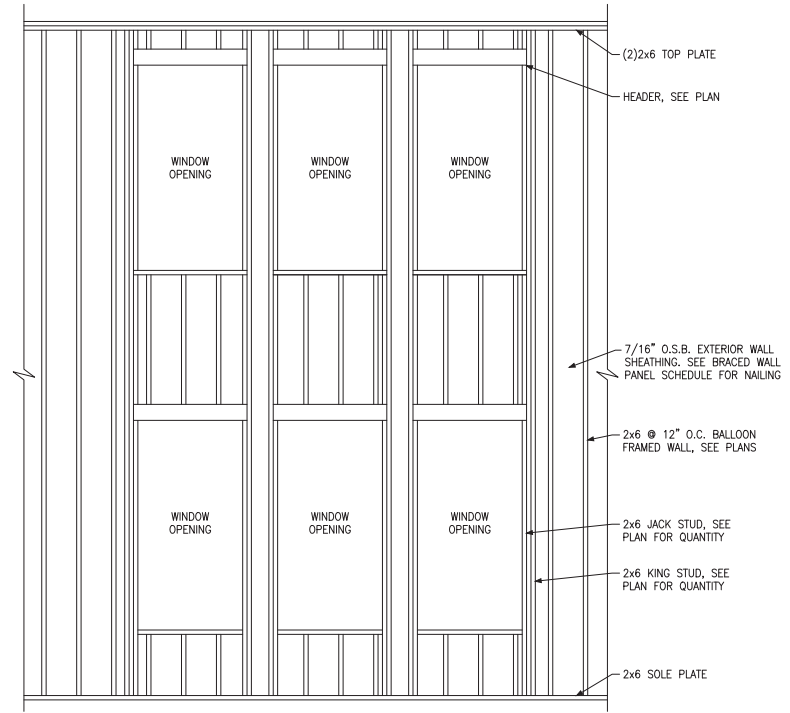
(A) BRICK LEDGER CONNECTION DETAIL



(B) BEARING ENHANCER
FLUSH LVL



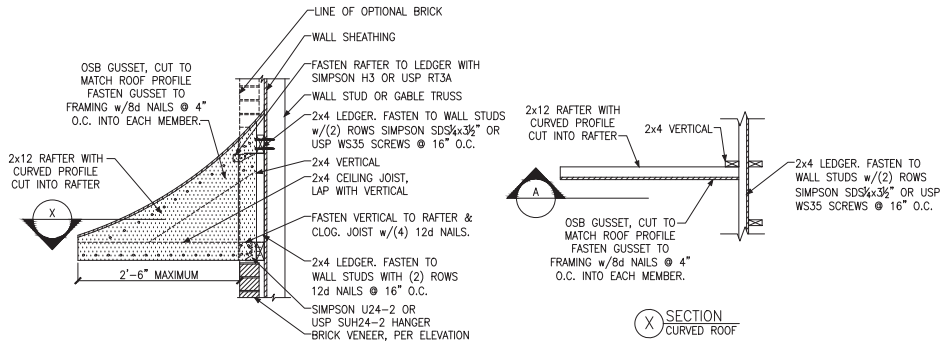
(C) I-JOIST LADDER BLOCKING
AS REQUIRED @ PARALLEL WALLS



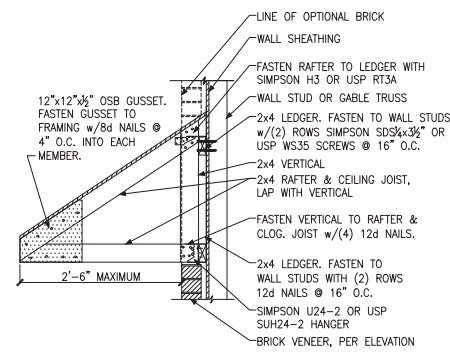
(D) BALLOON FRAMED WALL DETAIL
N.T.S.

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	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"

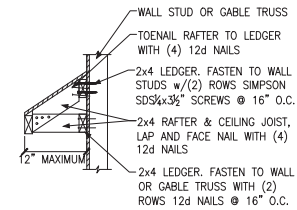




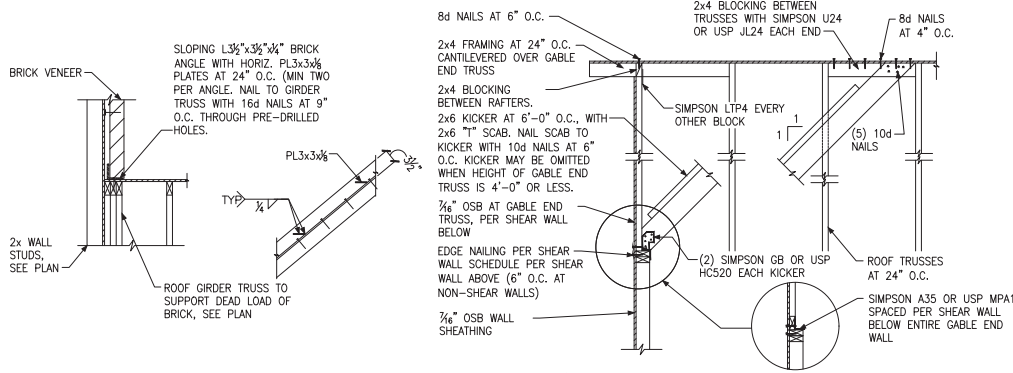
A PENT ROOF DETAIL
CURVED ROOF



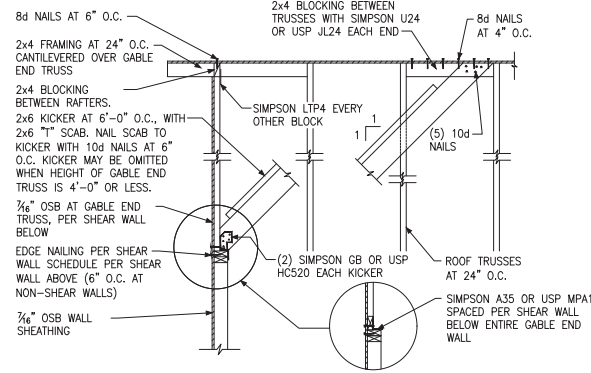
B PENT ROOF DETAIL
STRAIGHT ROOF



C EYEBROW ROOF DETAIL
STRAIGHT ROOF



D TRUSS DETAIL

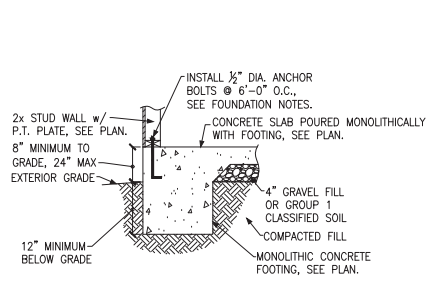


E GABLE END WALL DETAIL

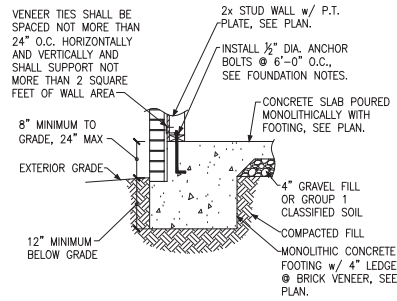


Miscellaneous Framing Details
Serenity, Lot #1016
B330 Ransdall Model
115 M.P.H.
Raleigh, North Carolina

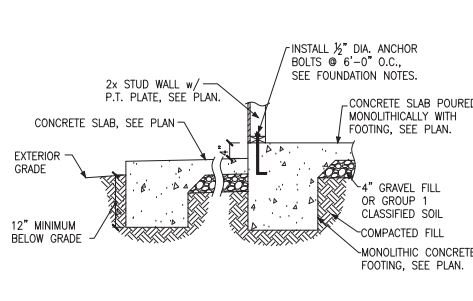
Project #: 047-20010
Designed By: JPS
Checked By:
Issue Date: 9/18/25
Re-issue:
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34



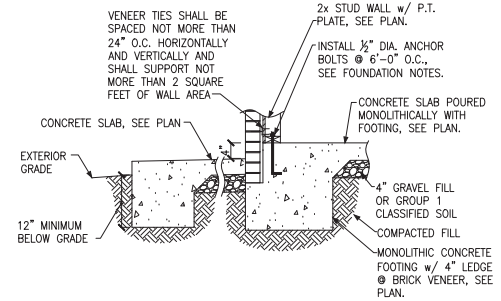
(A) FOUNDATION SECTION
EXTERIOR WALL



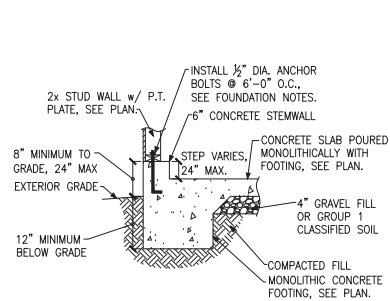
(B) FOUNDATION SECTION
EXTERIOR WALL @ BRICK VENEER



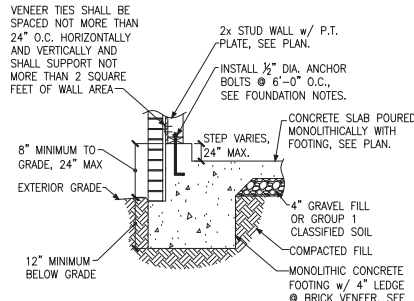
(C) FOUNDATION SECTION
EXTERIOR WALL AT PORCH



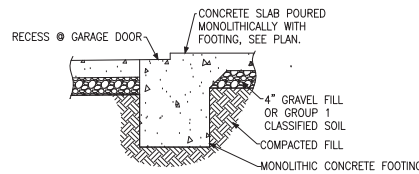
(D) FOUNDATION SECTION
EXTERIOR WALL AT PORCH w/ BRICK VENEER



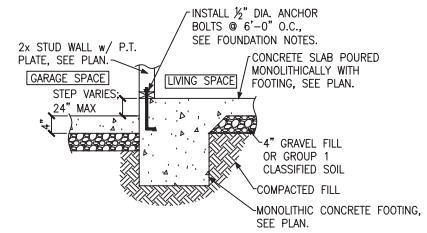
(E) FOUNDATION SECTION
EXTERIOR GARAGE WALL



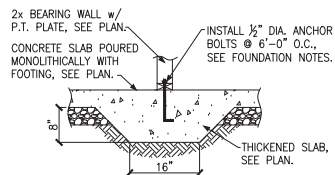
(F) FOUNDATION SECTION
EXTERIOR GARAGE WALL @ BRICK VENEER



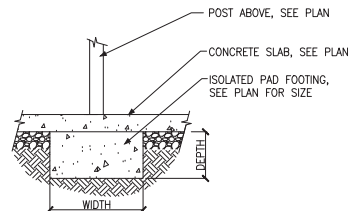
(G) GARAGE DOOR SECTION
GARAGE DOOR



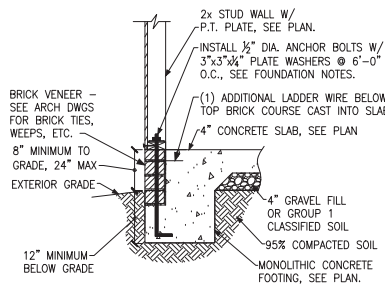
(H) THICKENED SLAB
AT GARAGE



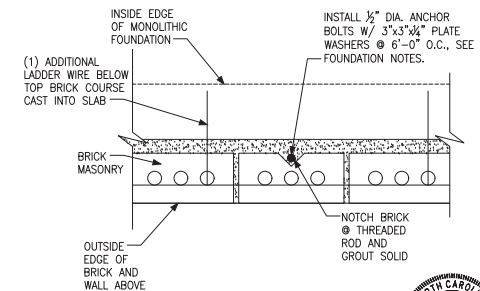
(J) THICKENED SLAB SECTION
INTERIOR BEARING WALL



(K) ISOLATED PAD FOOTING
INTERIOR COLUMN



(L) FOUNDATION SECTION
ALTERNATE EXTERIOR WALL



(M) FOUNDATION SECTION
ALTERNATE EXTERIOR WALL



Monolithic Slab Foundation Details

Serenity, Lot #1016

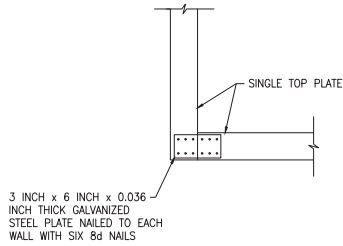
B330 Ransdall Model

115 M.P.H.

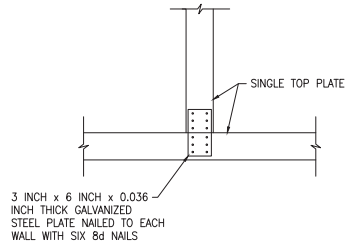
Raleigh, North Carolina

Project #: 047-20010
Designed By: JPS
Checked By:
Issue Date: 9/18/25
Re-issue:
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

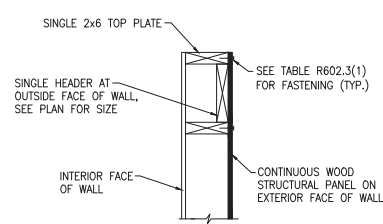
SD-7



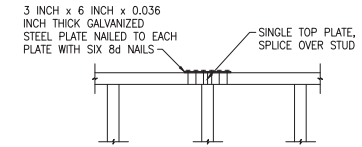
A SINGLE TOP PLATE SPLICE
WALL INTERSECTION



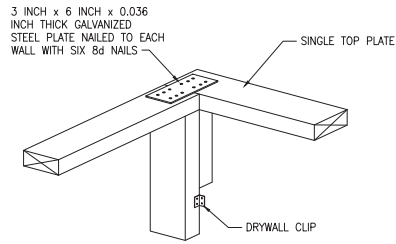
B SINGLE TOP PLATE SPLICE
WALL INTERSECTION



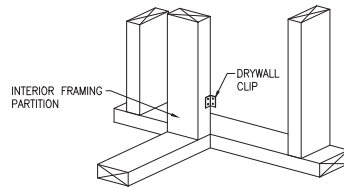
C SINGLE LOAD BEARING HEADER
EXTERIOR WALL



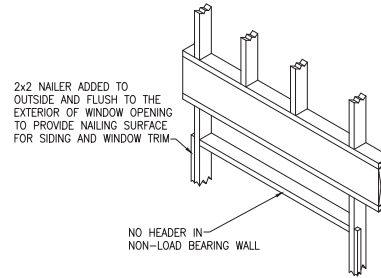
D SINGLE TOP PLATE SPLICE
INTERIOR OR EXTERIOR WALL



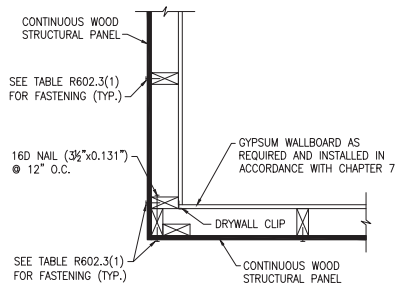
E SINGLE TOP PLATE SPLICE
WALL INTERSECTION



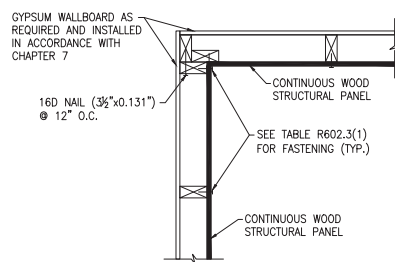
F SINGLE TOP PLATE SPLICE
WALL INTERSECTION



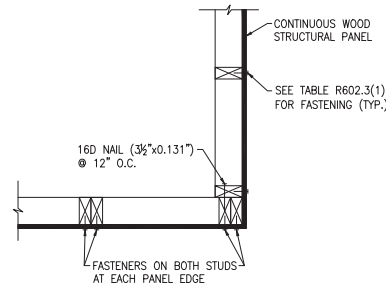
G NON-LOAD BEARING HEADER
EXTERIOR WALL



H TYPICAL EXTERIOR CORNER FRAMING
OUTSIDE CORNER DETAIL



J TYPICAL EXTERIOR CORNER FRAMING
INSIDE CORNER DETAIL



K TYPICAL EXTERIOR CORNER FRAMING
GARAGE DOOR 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 NC 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 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.



Advanced Framing Details & Notes

Serenity, Lot #1016

B330 Ransdall Model

115 M.P.H.

Raleigh, North Carolina

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David Weekley Homes
Raleigh, NC