STONEHAVEN-RALE

RALEIGH - LOT 00.0097 BLAKE POND

(MODEL# 3656)

ELEVATION 1 - GR

<u>INDEX</u>



AREA CALCULATIONS		COVERED /	
ELEVATION 1	HEATED	UNHEATED	UNCOVERED
FIRST FLOOR	1724 SF		
GARAGE		487 SF	
FRONT PORCH - ELEVATION 1		169 SF	
SECOND FLOOR	1939 SF		
OPTIONS			
REAR FIREPLACE	+10 SF		
SCREENED PORCH		+150 SF	
TOTAL	3673 SF	806 SF	

109 WHIMBREL COURT

	SPECIFIC	
1	LOT 00.0097	BLAKE POND
	1000000	STONEHAVEN REV. RALE-2 ELEVATION 1
2	ADDRESS	109 WHIMBREL COURT LILLINGTON, NC 27546
	-	



DRAWN BY: DATE: 01/18/2024

FRONT & REAR ELEVATIONS

SHEET No.



DRAWN BY: DATE: 01/18/2024 PLAN NO. 3656

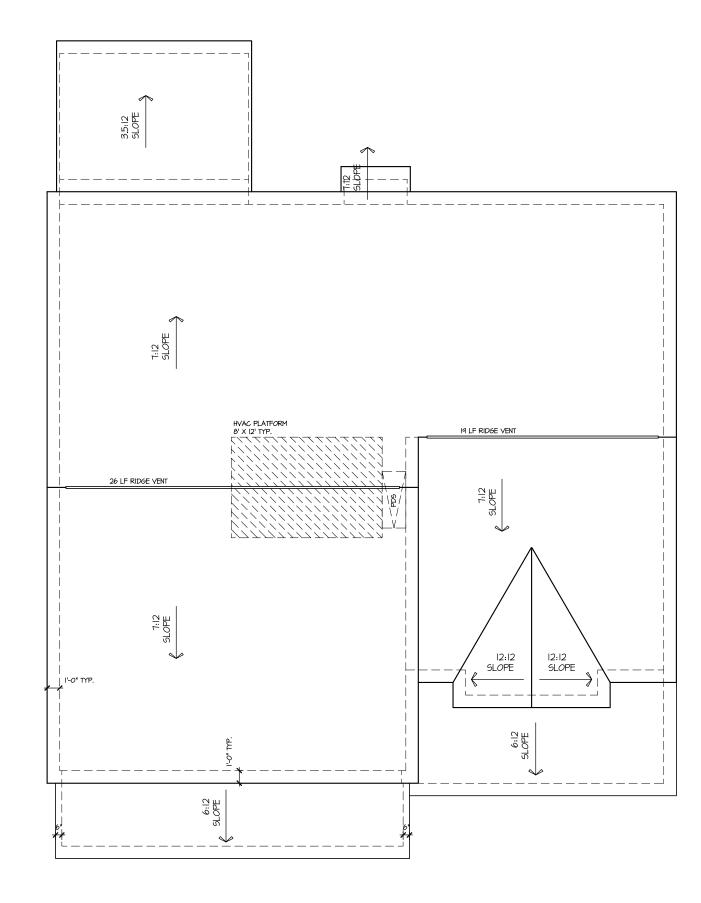
RIGHT & LEFT ELEVATIONS

HOUSE NAME: STONEHAVEN DRAWING TITLE

SHEET No.

ROOF VENTILATION CALCULATIONS:
ROOF AREA = 244 90. FT.
OVERALL REGISTED VISITILATION.
1. OVERALL REGISTED VISITILATION.
1. TO 300 = 50 + 421 90. FT.
1. TO 300 = 514 90. FT.
1. TO 300 = 514 90. FT.
1. TO 300 = 50 + 51 90. FT. (1 TO 300)
NET FREE AREA OF VENTED SOFFIT = 57. 90. IN / LINEAR FT.
NET FREE AREA OF RIDGE VENT = 10 90. IN / LINEAR FT.

LOWER VENTING. (BOTTOM 2/3 RDS)
86 LINEAR FIET OF SOFFIT X 5.1 50. IN. = 3.40 50. FT.
45 PERE VENTING. (TOP. JS RD)
45 LINEAR FIET OF RUDGE X 10 50. IN. = 5.63 50. FT.
50.5 SG. T. EETHERN SOR. = 2.6%
TOTAL ROOF VENTILATION. 4.03 50. FT. > 1.14 50. FT. (RQTD)



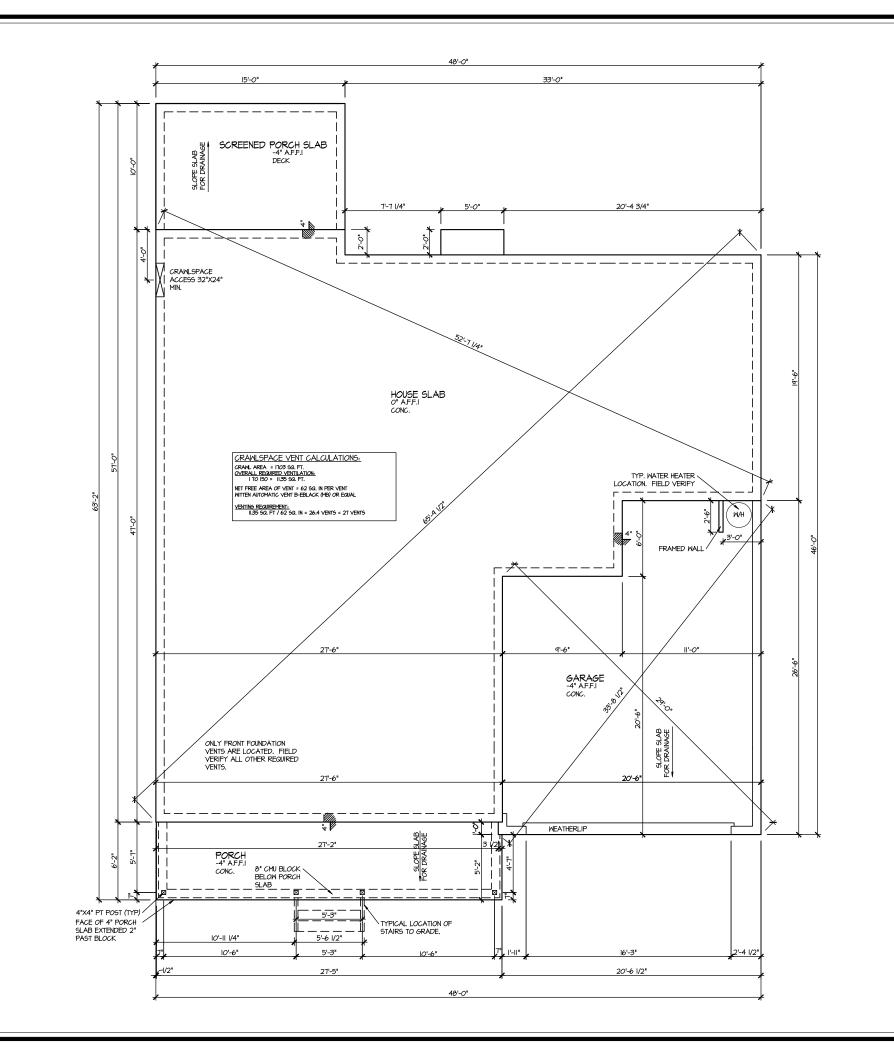
ROOF PLAN ELEV. I

HOUSE NAME: STONEHAVEN DRAWING TITLE ROOF PLAN SHEET No.

DRAWN BY:

PLAN NO. 3656

DATE: 01/18/2024



0.0097 amendment 2.dwg DATE: 1/18/2024 9:4

ELEVATION I CRAWL SPACE PLAN

SCALE: 1/8" = 1'-0"

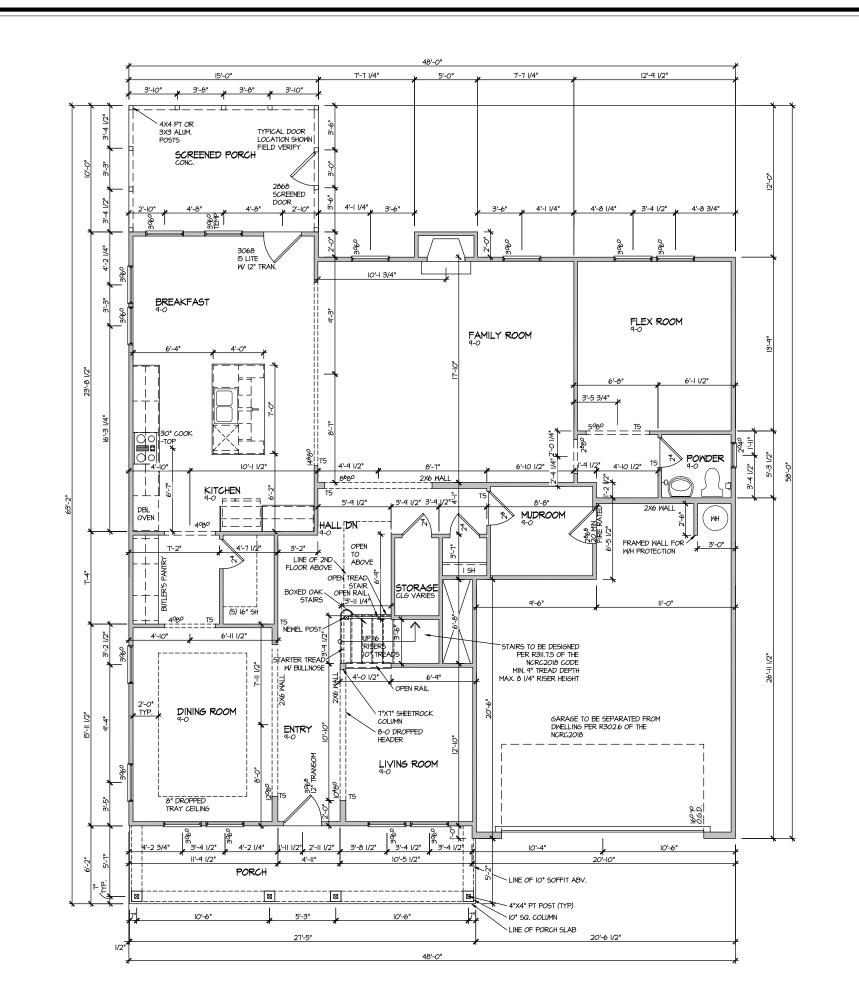
STONEHAVEN
DRAWING TITLE

CRAML SPACE PLAN

SHEET No.

DRAWN BY: ITS DATE: 01/18/2024

> PLAN NO. 3656



00.0097 amendment 2.dwg DATE: 1/18/2024 9:48

ELEVATION I FIRST FLOOR PLAN SCALE: 1/0" = 1'-0" MASTER PLAN INFORMATION

MASTER PLAN INFORMATION

REVISION DATE

2-RALE 11-10-2023

ON NVTA

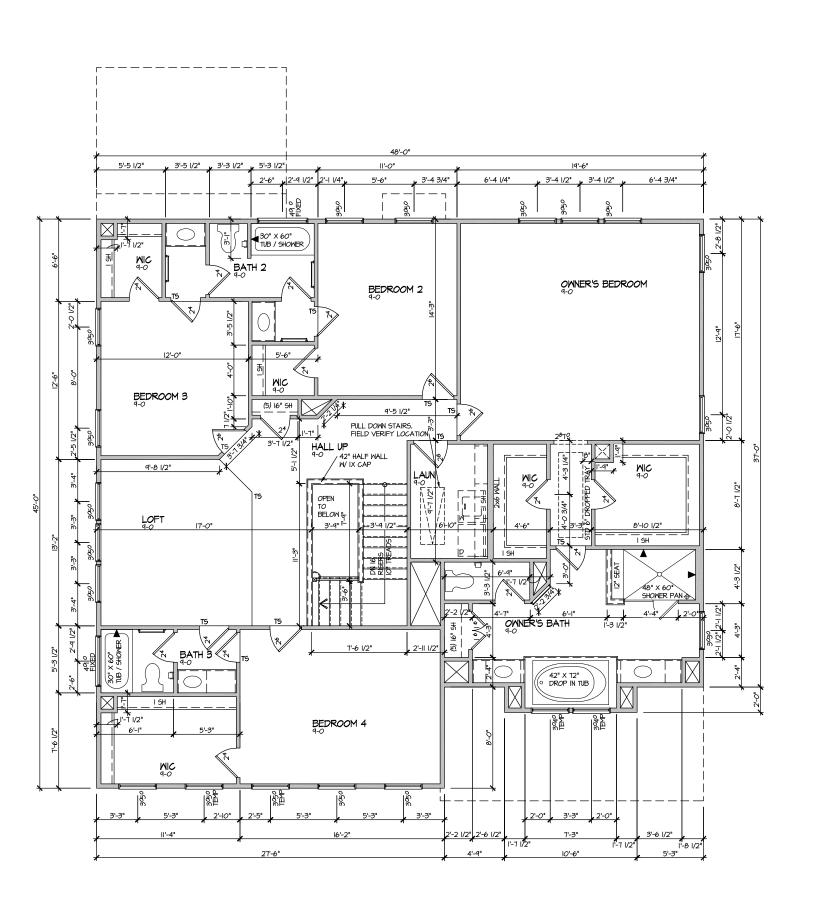
39292



HOUSE NAME:
STONEHAVEN
DRAWING TITLE

FLOOR PLAN

SHEET No.

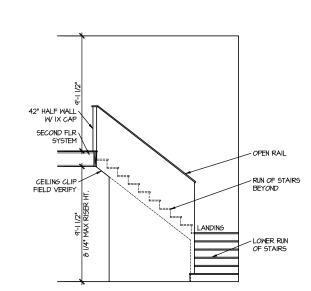


0.009/ dinglanding 2.04g DAIL: 1/ 10/ 2021 9.10

ELEVATION I SECOND FLOOR PLAN SCALE: 1/8" = 1'-0" | MASTER PLAN INFORMATION | MASTER PLAN INFORMATION | STATE |

HOUSE NAME:
STONEHAVEN
DRAWING TITLE
SECOND FLOOR PLAN

SHEET No. A3.2



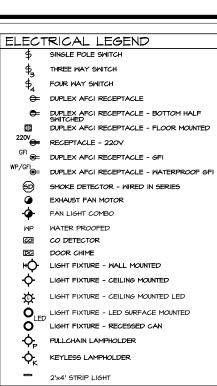
SECTION | SCALE: 1/8" = 1'-0"

HOUSE NAME:
STONEHAVEN
DRAWING TITLE
BUILDING SECTION

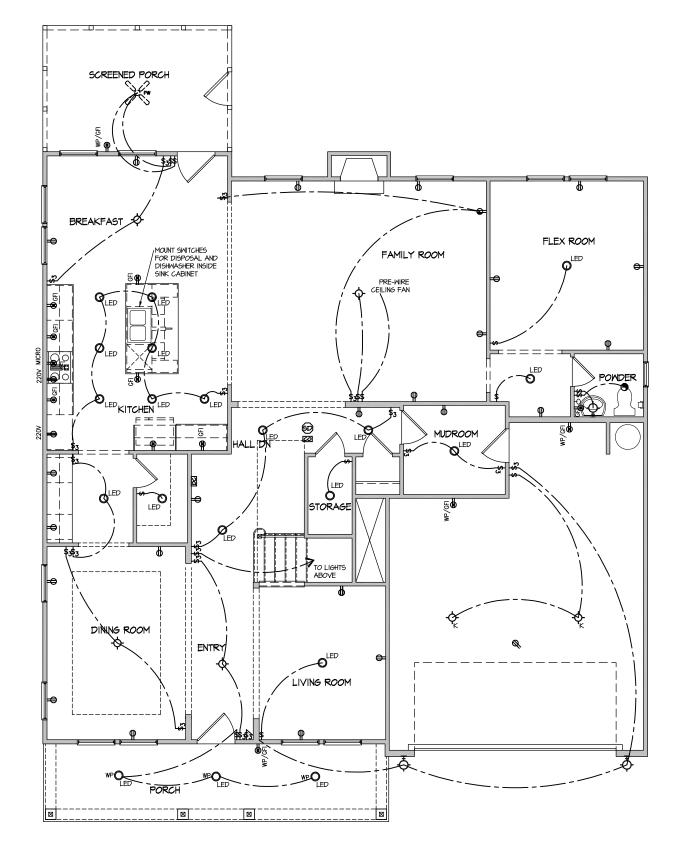
DRAWN BY: DATE: 01/18/2024

PLAN NO. 3656

SHEET No. A4.I



NOTE: ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, THE LOCAL POWER COMPANY AND TO ALL APPLICABLE LOCAL REGULATIONS.



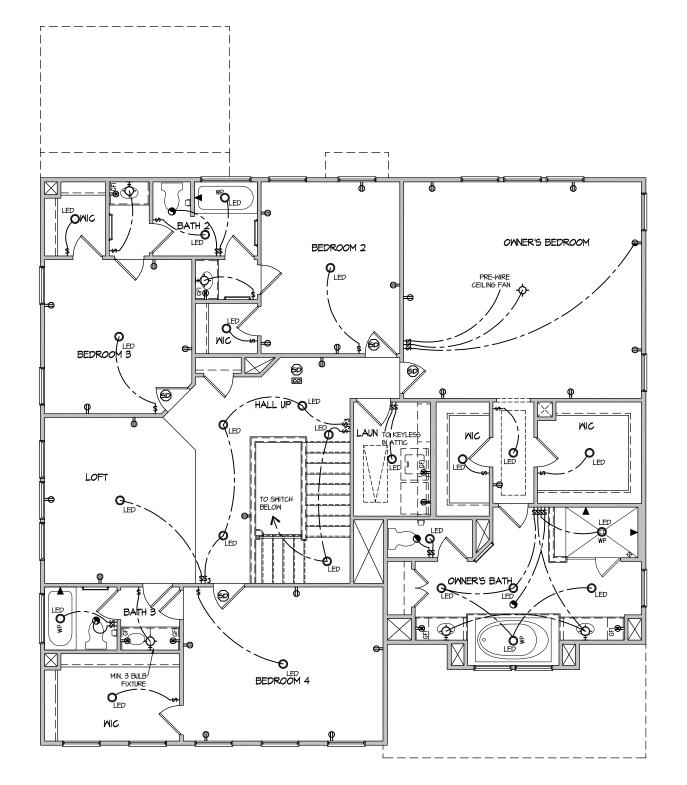
ELECTRICAL PLAN FIRST FLOOR - ELEV. I SCALE: 1/8" = 1'-0"

ELECTRICAL HOUSE NAME:
STONEHAVEN
DRAWING TITLE FLOOR SHEET No.

DRAWN BY: DATE: 01/18/2024 PLAN NO. 3656



MOTE, ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, THE LOCAL POWER COMPANY AND TO ALL APPLICABLE LOCAL REGULATIONS.



ELECTRICAL PLAN SECOND FLOOR - ELEV. I SCALE: 1/8" = 1'-0" MASTER PLAN INFORMATION

MASTER PLAN INFORMATION

MASTER PLAN INFORMATION

REVISION DATE

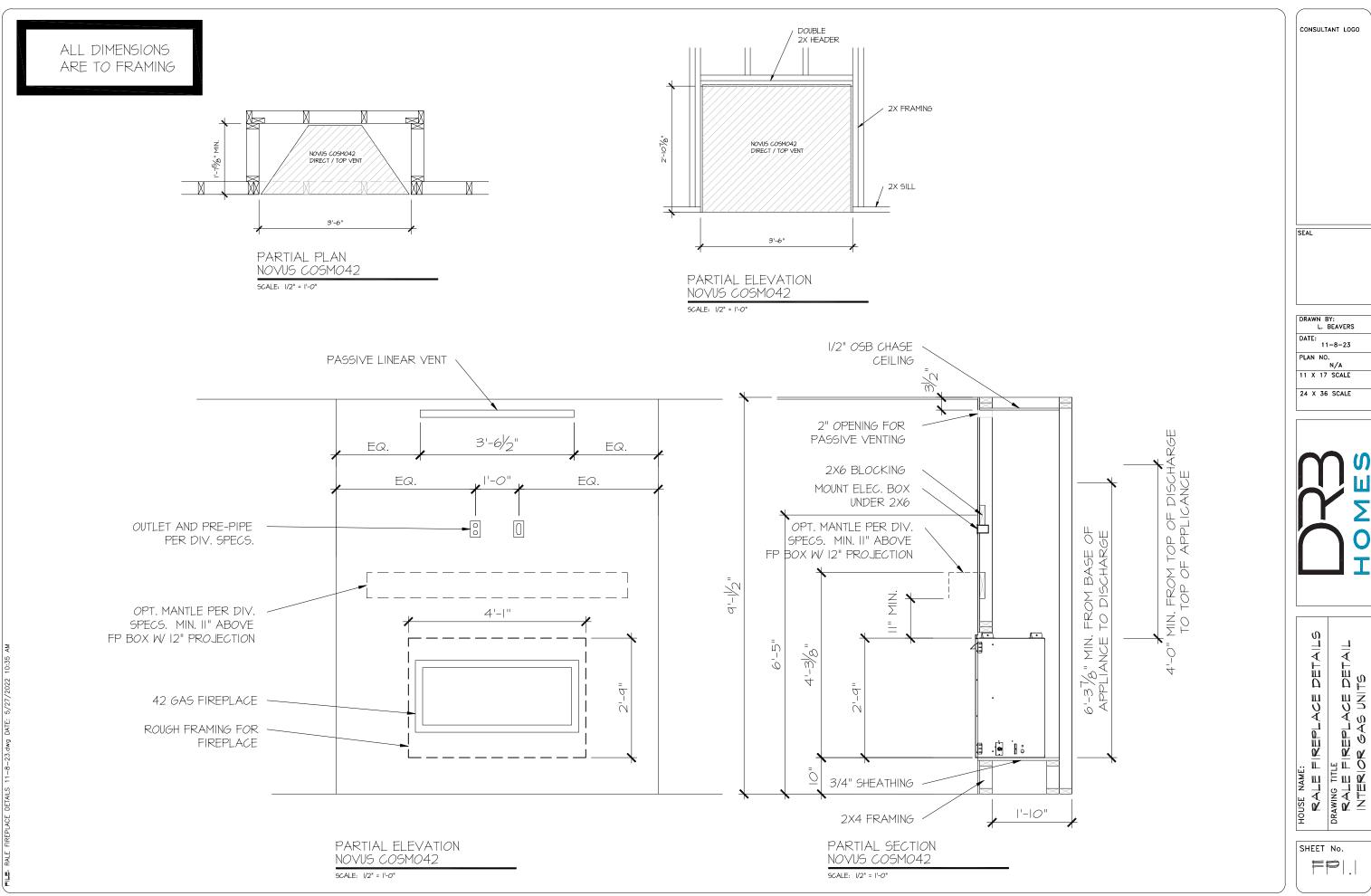
2-RALE 11-10-2023

2-RALE 11-10-2023

HOUSE NAME:
STONEHAVEN
DRAWING TITLE
SECOND FLOOR ELECTRICAL

SHEET No.

E1.2



CONSULTANT LOGO

DRAWN BY: L. BEAVERS DATE: 11-8-23 PLAN NO. 11 X 17 SCALE



SHEET No.

DESCRIPTION OF BLDG. ELEMENT	3"x0.131" NAILS	3"x0.120" NAIL5
JOIST TO SOLE PLATE	(3) TOENAILS	(3) TOENAILS*
SOLE PLATE TO JOIST/BLK'G.	(3) NAILS • 4" o.c.	(3) NAILS • 4" o.c.
STUD TO SOLE PLATE	(2) TOENAILS	(3) TOENAILS*
TOP OR SOLE PLATE TO STUD	(2) NAILS	(3) NAILS
RIM TO TOP PLATE	TOENAILS @ 8" O.C.	TOENAILS @ 6" o.c.*
BLK'G. BTWN. JOISTS TO TOP PL.	(3) TOENAILS	(3) TOENAILS*
DOUBLE STUD	NAILS @ 24" o.c.	NAILS @ 16" O.C.
DOUBLE TOP PLATE	NAILS @ 24" O.C.	NAILS ● 16" O.C.
DOUBLE TOP PLATE LAP SPLICE	(9) NAILS IN LAPPED AREA	(II) NAILS IN LAPPED AREA
TOP PLATE LAP @ CORNERS & INTERSECTING WALLS	(2) NAILS	(2) NAILS

2½"x0.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS. (ONLY ACCEPTABLE WHERE * ARE SHOWN)

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING SHEETING TEMPORARY BRACING, GUYS, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING FLEMEN N CONTACT WITH FLOOR FRAMING ARE LEVEL, INCLUDING, BUT NOT LIMITED TO: FOUNDATIONS, SLABS ON GRADE, BEAMS, WALLS, AND NON-BEARING ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY BE WITHIN CONTRACTUAL, INDUSTRY OR WARRANTY TOLERANCES.

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DIFFERENTIAL DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN

TRIGGES/ MISTS SHALL BE DESIGNED SO THAT DIFFERENTIAL DEFLECTION BETWEEN ADJACENT PARALLEL TRUSSES/JOISTS OR GIRDER TRUSSES/FLUS BEAMS DO NOT EXCEED THE FOLLOWING:

- A ROOF TRUSSES:
- I/4" DEAD LOAD FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS.
- I/8" DEAD LOAD FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO

FLOOR FRAMING BY OTHERS: LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAD LOAD. (NOT DIFFERENTIAL DEFLECTION)

GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE:
- WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.

DESIGN LOADS:

ROOF DEAD = 7 PSF T.C., IO PSF B.C.

LOAD DURATION FACTOR = 1.25

FLOOR LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (I-JOISTS & SOLID SAWN)

IO PSF T.C., 5 PSF B.C. (TRUSSES) (ADD'L IO PSF @ TILE)

LATERAL 120 MPH. EXPOSURE B. SEISMIC A/B.

2,000 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)

GENERAL FRAMING

- ALL TYP, NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE OR ON PLANS, ALL NAILS SPECIFIED ARE MIN DIAMETER AND LENGTH REQUIRED FOR CONNECTION. ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- REFER TO FASTENING SCHEDULE TABLE R602.3(I) FOR ALL
- EXT. & INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS)
 I6" O.C. SPF OR SYP "STUD" GRADE LUMBER, OR BETTER, U.N.O. . WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRICE-PINE-FIR #2 (SPE) OR SOUTHERN PINE #2 (SYP) LIMPER OR BETTER (KILN-DRIED). ALL HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED LOADS & SIZED ACCORDINGLY, CODE TABLES HAVE NOT BEEN USED.
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS SPACED @ 16" O.C. (MAX., U.N.O.) • HEADERS IN NON-LOAD BEARING WALLS SHALL BE:
- (1)2x4/6 FLAT @ OPENINGS UP TO 4'. (2)2x4/6 FLAT UP TO 8' ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).
- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING
- 'LSL' Fb=2325 psi: Fv=3I0 psi: E=I,55xI0^6 psi
- 'LVL' Fb=2600 psi; Fv=285 psi; E=2.0xl0^6 psi 'PSL' - FB=2900 PSI: FV=290 PSI: F=2.0XI0^6 PSI

INSTALLATION.

- M+K SHALL BE FULLY INDEMNIFIED FOR ANY AND ALL ISSUES OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO M+K FOR STRUCTURAL REVIEW PRIOR TO FABRICATION, DELIVERY, OR
- FOR 2 & 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 8" O/C OR 2 ROWS 1/4"x31/5" SIMPSON SDS SCREWS (OR 3½" TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 3 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM FDGE SOLID 3 K" OR 5 K" BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 \$ 2x8 MEMBERS
- FOR 4 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 1/2"x6" SIMPSON SDS SCREWS (OR 6 3/4" TRUSSLOK SCREMS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER, APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AND BOTTOM SCREWS 2" FROM EDGE. A SOLID 7" BEAM IS ACCEPTABLE.
- ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD & (1)2x KING STUD, MINIMUM.
- THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, U.N.O.,
- ALL MULTI-PLY STUDS TO BE FASTENED TOGETHER w/ 3"X0.131" NAILS @ 24" O.C. (MIN.), EACH PLY.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND/BEARING. BLOCKING TO MATCH POST ABOVE.
- FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS WITH P.A.F.'s ('HILTI' X-CF PINS OR EQUAL) @ 16" O.C. STAGGERED. OR I/2" DIA. BOLTS @ 48" O.C. STAGGERED.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BCS2-2/4 CAP & ABW44Z BASE, U.N.O.

FLOOR FRAMING

- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES MARBLE FLOORS - CONTACT M&K FOR MARBLE FLOOR DESIGNS)
- AT I-JOIST FLOORS, PROVIDE I I/8" MIN, OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR' 24" O.C. EXPOSURE I (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W GLUE AND
- 2 ½" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES \$ @ 12"o.c. FIELD.
- 2 3 × 0.120" NAILS @ 4" O.C. @ PANEL EDGES \$ @ 8" O.C. FIELD. - 2 3" × 0 113" NAILS @ 3" OC @ PANEL EDGES & @ 6" OC IN FIELD
- #6 x 2" MIN. SCREWS @ 6" O.C. @ PANEL EDGES & @ 12" O.C. FIELD.

ROOF FRAMING

- BAY WINDOWS & SHED ROOFS (UP TO 6' SPAN) CAN BE 2x4 OR 2x6 RAFTERS & CEILING JOISTS @ 16/24" O.C.
- FASTEN EACH ROOF TRUSS TO TOP PLATE W/ SIMPSON H2.5T CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) H2.5T CLIPS AT 2-PLY GIRDER TRUSSES, (3) H2 5T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.
- ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI I-08 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (MAX 7' SPAN) W 2x4 LEDGER FASTENED TO
 - RIM BOARD w/ (2) 3"x0.131" NAILS @ 16" O.C. MAX. (1-JOISTS) - TRUSS VERTICALS w/ (3) 3"x0.131" NAILS @ 19.2" O.C. MAX. (FLOOR TRUSSES)
- ROOF SHEATHING SHALL BE 1/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS
- W/ 2 ½" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES € @ 12" O.C. FIELD. " x 0.120" NAILS @ 4"o.c. @ PANEL EDGES & @ 8" O.C. FIELD. -w/2 ₹
- W/ 2 3" x 0.113" NAILS @ 3"O.C. @ PANEL EDGES \$ @ 6" O.C. FIELD.

VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE
3'-0"	20 FT. MAX	L3"x3"x¼"
	3 FT. MAX	L3"x3"x¼"
6'-0"	I2 FT. MAX	L4"x3"x¼"
	20 FT. MAX	L5"x3½"x%;"
8'-0"	3 FT. MAX	L4"x4"x¼" *
<i>6-</i> 0	I2 FT. MAX	L5"x3½"x%;"
	I6 FT. MAX	L6"x3½"x%"
9'-6"	I2 FT. MAX	L6"x3½"x¾6"
16'-0"	2 FT. MAX	L7"x4"x½" **
	3 FT. MAX	L8"x4"x½" **

LSI JPPORT 2 3½" - 3 ½" VENEER w/ 40 pa∮ MAXIMUM MEIGHT 1. HAVE 4" MIN. BEARING 1. HAVE 6" MIN. BEARING 1. NOT BE FASTISHED BACK TO HEADER.

- I/O SHALL NOT BE PASTEND PACK TO FEADER IN WALL #46% C. N/S* DIA. X 3/S*
 LOW LOBE PASTENDED PACK TO DOD FEADER IN WALL #46% C. N/S* DIA. X 3/S*
 LOW LOBE PASTENDED PACK TO MORPOWALLY LOTTED PACES.

 LOW LOBE PASTENDED BY CONTROLLING TO THE OFFINION OF THE OFFINION OF THE OFFINION OF THE OFFINION OF THE PASTENDED PACK OF THE PASTENDED PACK OFFINION OF THE PASTENDED PACK OF THE PASTENDED PACK OFFINION OF THE PASTENDED PA
- OVE TAXABLELIANS.

 REQUEEN VENEER USE L4x34/4".

 OR 3/4" VENEER ONLY. SEE PLAN FOR VENEER SUPPORT IF VENEER < 3/5" THICK.

SD2.I REFERS TO SD2.IA FOR LVL/PSL/LSL BEAMS OR SD2.IB FOR FLITCH BEAMS OR SD2.IC

FOR STEEL BEAMS

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:

20 MPH WIND IN 2018 NCSBC:RO (120 MPH WIND SPEED IN ASCE 7-10 WIND MAP, PER IRC R301.2.1.1) EXP. B, RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 IBC (SECTION 1609) & ASCE 7-10, AS PERMITTED BY R30113 OF THE 2018 NCSBC:RC OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.12 COMPLY ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST

THE CODE REQUIRED LATERAL FORCES. DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018

NCSBC:RC SECTION R802.II.I.I. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R60235& R80211

EXT. WALL SHEATHING SPECIFICATION

- 1/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W 2 3/8"x0.II3" NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE PANEL FIELD. TYP, UN.C.
- HORIZONTAL BLOCKING OF EXT. WALL/SHEAR WALL PANEL EDGES IS NOT REQUIRED BY THIS DESIGN EXCEPT FOR THOSE AREAS SPECIFICALLY NOTED.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.
- ・ALT. STAPLE CONNECTION SPEC: 1½" 16 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES \$ @ 6" O.C IN FIELD.

BLOCKED PANEL EDGES

AT DESIGNATED AREAS - FASTEN SHEATHING w/ 2 36" x 0.113" NAILS @ 6" O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR 1 3/4" 16 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES & @ 6"
O.C. IN FIELD. ALL SHEATHING PANELS SHALL BE ORIENTED AND INSTALLED FULL HEIGHT OF SHEAR WALL OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE FASTENING.

3" O.C. EDGE NAILING

AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING W/ 8d NAILS @ 3" O.C. NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED AND INSTALLED FULL HEIGHT SHEAR WALL OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
- DESIGN ASSUMES 16" O.C MAX, STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING
- PRE-MANUFACTURED PANELIZED WALLS FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT. OSB SHEARWAI OR 3" O.C. OSB SHEARWALL.

INDICATES HOLDOWN BELOW

GENERAL STRUCTURAL NOTES

FOUNDATION

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
- FOOTING DESIGN 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.
- FASTEN 2x4/6 SILL PLATES TO FND WITH A MINIMUM OF 2 ANCHORS PER PLATE 12" MAX FROM PLATE ENDS - LITTLIZING
- I/2" DIA. ANCHOR BOLTS 6'-0" O.C, 7" MIN. EMBEDMENT
- (CONC), 15" MIN, EMBEDMENT (CMU)
- SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C. (CONC)
- SIMPSON MAB23 ANCHOR STRAPS 2'-8" O.C. (CMU) (REFER TO DETAILS FOR IO' TALL WALL ANCHOR REQUIREMENTS)
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ CONCRETE OR CMU SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2. BUILDER TO VERIEY CORROSION-RESISTANCE COMPATIBILITY OF
- HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED WOOD, CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD. • BASEMENT INTERIOR BEARING WALLS & EXTERIOR WALK-OUT BASEMENT WALLS SHALL BE 2x6 @ 16" O.C. SPF OR SYP, "STUD"
- GRADE OR BETTER. CONCRETE DESIGN BASED ON ACL 318 CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.: 4,000 psi: FOUNDATION WALLS
- 2,500 psi: FOOTINGS & INTERIOR SLABS ON GRADE 3,000 psi: GARAGE & EXTERIOR SLABS ON GRADE 60,000 psi
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
- . 9' OR IO' HEIGHT (AS NOTED ON PLANS) - TALLER WALLS MUST BE ENGINEERED.
- NOMINAL WIDTH (9 1/2" FOR 10" THICK WALL).
- BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYPE CLASSIFICATIONS (SC. ML-CL, OR CL). BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY
- ADEQUATE TEMPORARY BRACING OR INSTALL 1st FLOOR DECK.
- PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN CONCRETE BSMT, FND, WALL WITH 2" CLEAR, REINFORCEMENT SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS.
- FOR OPENINGS UP TO 36", PROVIDE MINIMUM IO" CONCRETE
- DEPTH OVER OPENING OR (3)2x10 w/ (2)2x6 JACK STUDS, U.N.O LARGER OPENINGS SHALL BE PER PLAN.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT
- ALL FOOTINGS SHALL BEAR AT LEAST 12" BELOW FINISH GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP
- JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR
- 15'-0" O.C. (MAXIMUM) JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS
- POSSIBLE (I.I RATIO) WITH A MAXIMUM OF I.I.5 RATIO · CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL
- CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 WITH A MIN. COMPRESSIVE STRENGTH OF 1900 psi (Fm=1500 psi). MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 & 530.I.
- CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORCEMENT (OR EQUAL) - 9 GA. MINIMUM @ 16" O.C.
- PROVIDE 2x8 x 16" LONG PT PLATE ON TOP OF ALL CRAWL SPACE PIERS. ALL PIERS SHALL BE GROUTED SOLID.
- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRAWL SPACE WALLS. FASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE.
- BUILDER TO VERIFY THAT MODEL HAS BEEN ADEQUATELY TREATED BY A LICENSED AND BONDED PEST CONTROL COMPANY FOR SUBTERRANEAN TERMITES. METHOD AND TYPE OF TREATMENT TO BE DETERMINED BY PEST CONTROL COMPANY.

HOLD-DOWN SCHEDULE

· DIMENSIONS BY OTHERS, BUILDER TO VERIFY.

SYMBOL	SPECIFICATION
► HD-I	SIMPSON HTT4 HOLD-DOWN *
HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.) (PRE-BENT MSTC66 ALT. WHEN SPECIFIED)
№ HD-3	SIMPSON STHD14/14RJ HOLD-DOWN

ALTERNATIVE TO SSTB24 ANCHOR BOLT SPECIFICATION: * UTILIZE SIMPSON "SET" EPOXY SYSTEM TO FASTEN 5/6" DIA. THREADED ROD INTO CONCRETE FOUNDATION. PROVIDE 12" MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF. RECOMMENDATIONS. DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF FOUNDATION

al: 1/26/24 TH CAR PROFESSION, O. ENGINE

SEPHT. R





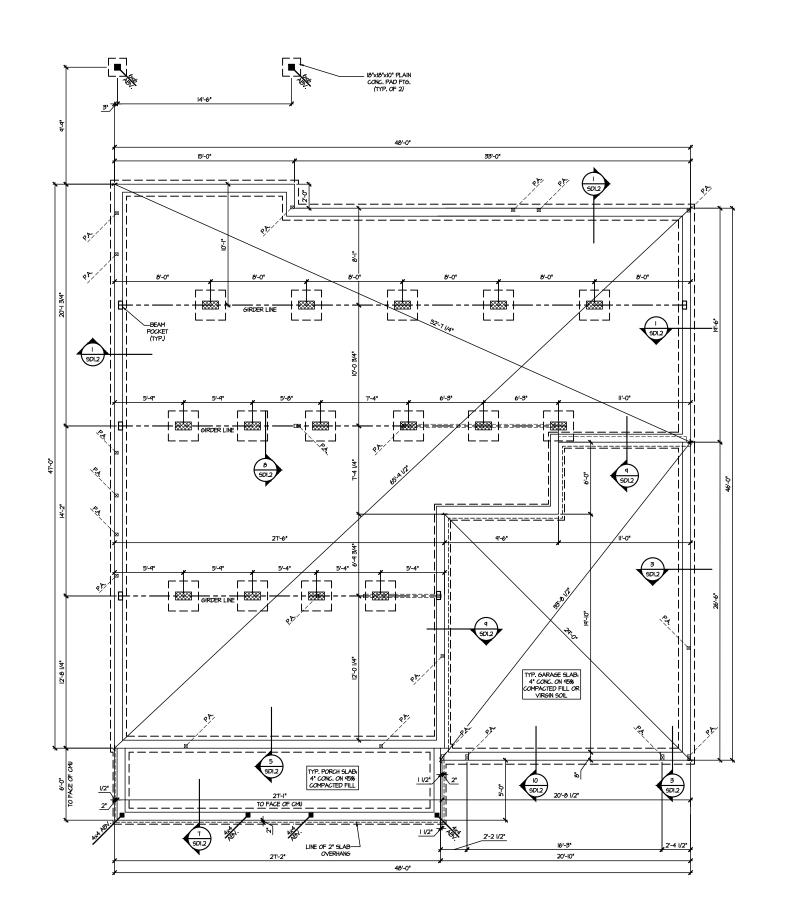
JTR rawn by: SJF sue date: 01-10-2

REVISIONS initial: KFG 1-25-24



POND COMMUNI: Stonehaven 1 . nc LO

BLAKE I LOT 97 - S RALEIGH,



eal: 1/26/24 SEPH T. R

MULHERN+KUL
RESIDENTIAL STRUCTURAL ENGINEERI



M&K project number 126-23061

JTR SJF drawn by: issue date: 01-10-24

REVISIONS: 01-25-24 KFG

BLAKE POND COMMUNITY Lot 97 - Stonehaven 1 raleigh, nc **OUNDATION PLANS**

S1.0

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

LEGEND

• = = INDICATES SHEAR WALL & EXTENT

* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

• INTERIOR BEARING WALL ● □===□ BEARING WALL ABOVE

EXTENT OF OVERFRAMING

INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

• BEAM / HEADER

JL METAL HANGER

6x6 P.T. POST w/

ENGINEERED BEAM MATERIAL SCHEDULE BEAM NUMBER LVL OPTION FLITCH OPTION STEEL OPTION 2)2x10 + (1) ¼"x4¼" STEEL FLITCH PLATES - F 001 (2)13/4"x9 1/4" - F 3½"x9¼" - F W8x10 - F (2)2xl2 + (I) I"xII¼" STEEL FLITCH PLATES - F 002 (2)13/4"x18" - FB 3%"xi8" - FB N/A WI2xI4 - F (3)2xl2 + (2) 片"xl以" STEEI FLITCH PLATES - F 002A (3)13/4"x16" - FB 51/4"x16" - FB WI2xI4 - I (2)2xi2 + (i) ¼"xil¼" Steel Flitch Plates - F 003 (2)13/4"×14" - F 3½"x14" - F (2)13/4"×14" -(2)2xl2 + (I) %"xll4" STEEL FLITCH PLATES - F 004 (2)|3/"v|4" - F 3½"xl4" - F (3)13/4"×14" -005 (4)13/4"x18" - D 7"xI8" - D WI2x30 - D N/A 006 N/A (2)13/4"×117/6" - H (3)134"x1136" - H N/A 3½"xII%" - H (2)2xl2 + (l) **%**"xl以" STEEI FLITCH PLATES - H (2)13/4"×14" - H (3)13/4"×14" - H N/A 3½"xl4" - H (3)2xl0 + (2) ¼"xll¼" STEE FLITCH PLATES - F 800 (3)13/4"x14" - F 5½"xl4" - F N/A WI2xI4 - F 009 (3)13/4"x18" - H 5½"xl8" - H N/A N/A (2)2x10 + (1) ¼"x4¼" STEEL FLITCH PLATES - H 010 M8xI0 - H (2)134"x914" - H 3K"x9¼" - H (2)134"x94" - H (3)2xi0 + (2) ¼"xi¼" STEEL FLITCH PLATES - F OII W∂xI0 - F 5¼"×9¼" - F (4)2xl2 + (3) ¼"xll¼" STEEL FLITCH PLATES - D 012 (4)13/4"x113/6" - D 7"xII%" - D WI2xI4 - D (3)2xi2 + (2) ½"xi以" STEEI FLITCH PLATES - F 013 (3)13/4"x16" - FT 5¼"xl6" - FT WI2xI9 - F N/A (2)2xl2 + (I) %"xll4" STEEL FLITCH PLATES - F 014 (2)13/4"×14" - F 3½"xl4" - F (3)13/4"×14" - F WI2xI4 - F

BEAM NOTATION:
- "F" INDICATES FLUSH BEAM

- "FT" INDICATES FLUSH TOP BEAM
- "FB" INDICATES FLUSH BOTTOM BEAM
- "D" INDICATES DROPPED BEAM
- "H" INDICATES DROPPED OPENING HEADER

REFER TO DETAIL D/SD2.0 FOR TYPICAL FLITCH BEAM CONNECTIONS
REFER TO DETAIL E/SD2.0 FOR TYPICAL STEEL BEAM CONNECTIONS
FOR FLUSH TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN

PLATES IN SUCCESSION W (2) 3"XO(120" NAILS • 8" O.C.
FOR FLUSH BOTTOM BEAMS PROVIDE 2x STACKED PLATES ATOP BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION w/ (2) 3"x0.120" NAILS @ 8" O.C.

al: 1/26/24 Walter Barre CAR ENGINE OSEPH T. RI

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING



M&K project number: 126-2306

JTR frawn by: ssue date: 01-10-2

REVISIONS:

initial: KFG 01-25-24

ANS

OR

SD2, REFERS TO SD2, IA FOR LVL/PSL/LSL BEAMS OR SD2.IB FOR FLITCH BEAMS OR SD2.IC FOR STEEL BEAMS

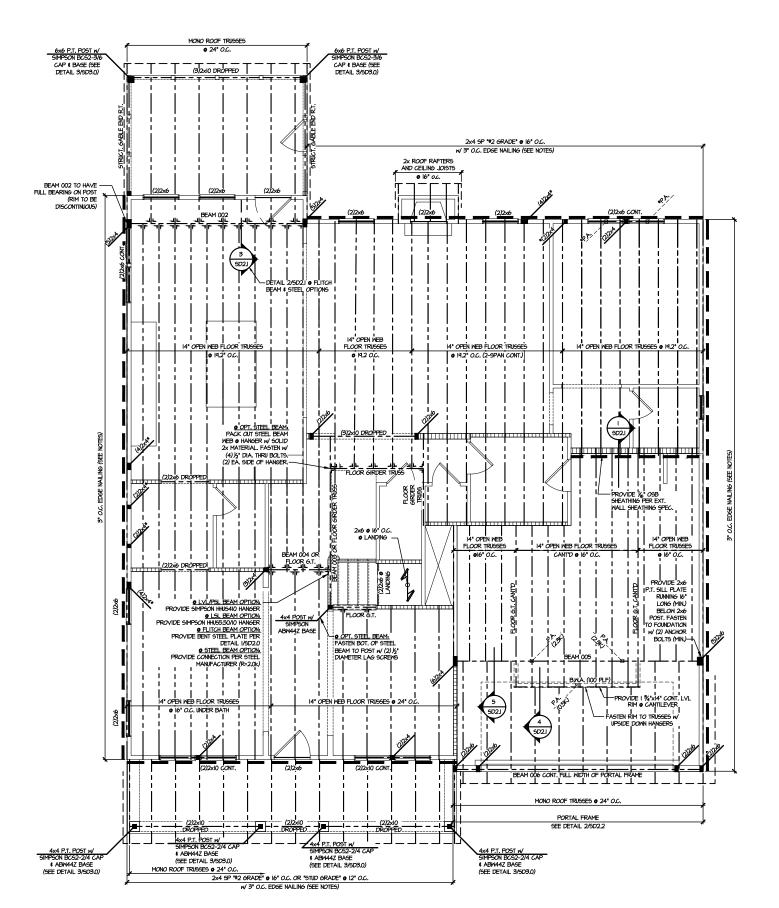
LEGEND

- IIIIIII INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- BEAM / HEADER
- = INDICATES SHEAR WALL & EXTENT EXTENT OF OVERFRAMING
- JL METAL HANGER
- * INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

IST FLOOR FRAMING PLAN

BLAKE POND COMMUNITY Lot 97 - Stonehaven 1 Raleigh, nc



ENGINEERED BEAM MATERIAL SCHEDULE BEAM LVL OPTION FLITCH OPTION STEEL OPTION 2)2x10 + (1) ¼"x4¼" STEEI FLITCH PLATES - F 001 (2)13/4"x9 1/4" - F 3½"x9¼" - F W8xIO - F (2)2xl2 + (I) I"xII¼" STEEL FLITCH PLATES - F 002 (2)13/4"x18" - FB 3%"xi8" - FB MIDYIA - I (3)2xl2 + (2) 片"xl以" STEEI FLITCH PLATES - F 002A (3)13/4"x16" - FB 5¼"xl6" - FB WI2xI4 - I (2)2xl2 + (1) ¼"xll¼" STEEI FLITCH PLATES - F 003 (2)13/4"×14" - F 3½"x14" - F (2)13/4"x14" -(2)2xl2 + (I) %"xll4" STEEL FLITCH PLATES - F 004 (2)|3/"v|4" - F 3½"xl4" - F (3)13/4"x14" -1)2x12 + (3) %"xII¼" STEE FLITCH PLATES - D 005 (4)13/4"x18" - D 7"xI8" - D WI2x30 - D N/A 006 N/A (2)13/4"×117/6" - H (3)134"x1136" - H N/A 3½"xII%" - H (2)2xl2 + (l) **%**"xl以" STEEI FLITCH PLATES - H (2)13/4"×14" - H (3)13/4"×14" - H 3½"xl4" - H (3)2x10 + (2) ¼"x1¼" STEE FLITCH PLATES - F 800 (3)13/4"×14" - F 5½"xl4" - F N/A WI2xI4 - F (3)2xi2 + (2) 片"xi以" STEEL FLITCH PLATES - H 009 (3)13/4"x18" - H 5½"xl8" - H N/A N/A (2)2x10 + (1) ¼"x4¼" STEEL FLITCH PLATES - H M8xIO - H (2)134"×94" - H 3K"x9¼" - H (2)134"×944" - H (3)2x10 + (2) ¼"x1¼" STEEL FLITCH PLATES - F OII 5¼"x9¼" - F W∂xI0 - F (4)2xl2 + (3) ¼"xll¼" STEEL FLITCH PLATES - D 012 (4)13/4"x113/6" - D 7"xII%" - D WI2xI4 - D (3)2xi2 + (2) ½"xi以" STEEI FLITCH PLATES - F 013 (3)13/4"x16" - FT 5¼"xl6" - FT WI2xI9 - F N/A (2)2x12 + (1) %"xII¼" STEEL FLITCH PLATES - F 014 (2)13/4"×14" - F 3½"xl4" - F (3)13/4"×14" - F WI2xI4 - F

BEAM NOTATION:
- "F" INDICATES FLUSH BEAM

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REFER TO DETAIL D/SD2.0 FOR TYPICAL FLITCH BEAM CONNECTIONS
REFER TO DETAIL E/SD2.0 FOR TYPICAL STEEL BEAM CONNECTIONS
FOR FLUSH TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN

PLATES IN SUCCESSION W (2) 3"XO(120" NAILS & 8" O/C.
FOR FLUSH BOTTOM BEAMS PROVIDE 2x STACKED PLATES ATOP BEAM AS REQ'D. FASTEN

PLATES IN SUCCESSION w/ (2) 3"x0.120" NAILS @ 8" O.C.

al: 1/26/24 AND RIVE CAR ENGINEE EPH T. R

MULHERN+KULP HESIDENTIAL STRUCTURAL ENGINEERING



M&K project number: 126-2306

JTR frawn by: ssue date: 01-10-2

REVISIONS

initial: KFG 01-25-24



S BLAKE POND COMMUNITY Lot 97 - Stonehaven 1 Raleigh, nc

SD2.I REFERS TO SD2.IA FOR LVL/PSL/LSL BEAMS OR SD2.IB FOR FLITCH BEAMS OR SD2.IC FOR STEEL BEAMS

LEGEND

- IIIIIII INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- BEAM / HEADER
- = = INDICATES SHEAR WALL & EXTENT EXTENT OF OVERFRAMING
- JL METAL HANGER
- * INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

S3.

OOR



M&K project number: 126-23061

JTR drawn by: SJF issue date: 01-10-24

REVISIONS: initial: 01-25-24 KFG



ROOF FRAMING PLANS

LEGEND

ullet = \blacksquare INDICATES SHEAR WALL & EXTENT EXTENT OF OVERFRAMING

* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

& SCHEDULES

INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

 INTERIOR BEARING WALL ● □===□ BEARING WALL ABOVE • ---- BEAM / HEADER

JL METAL HANGER

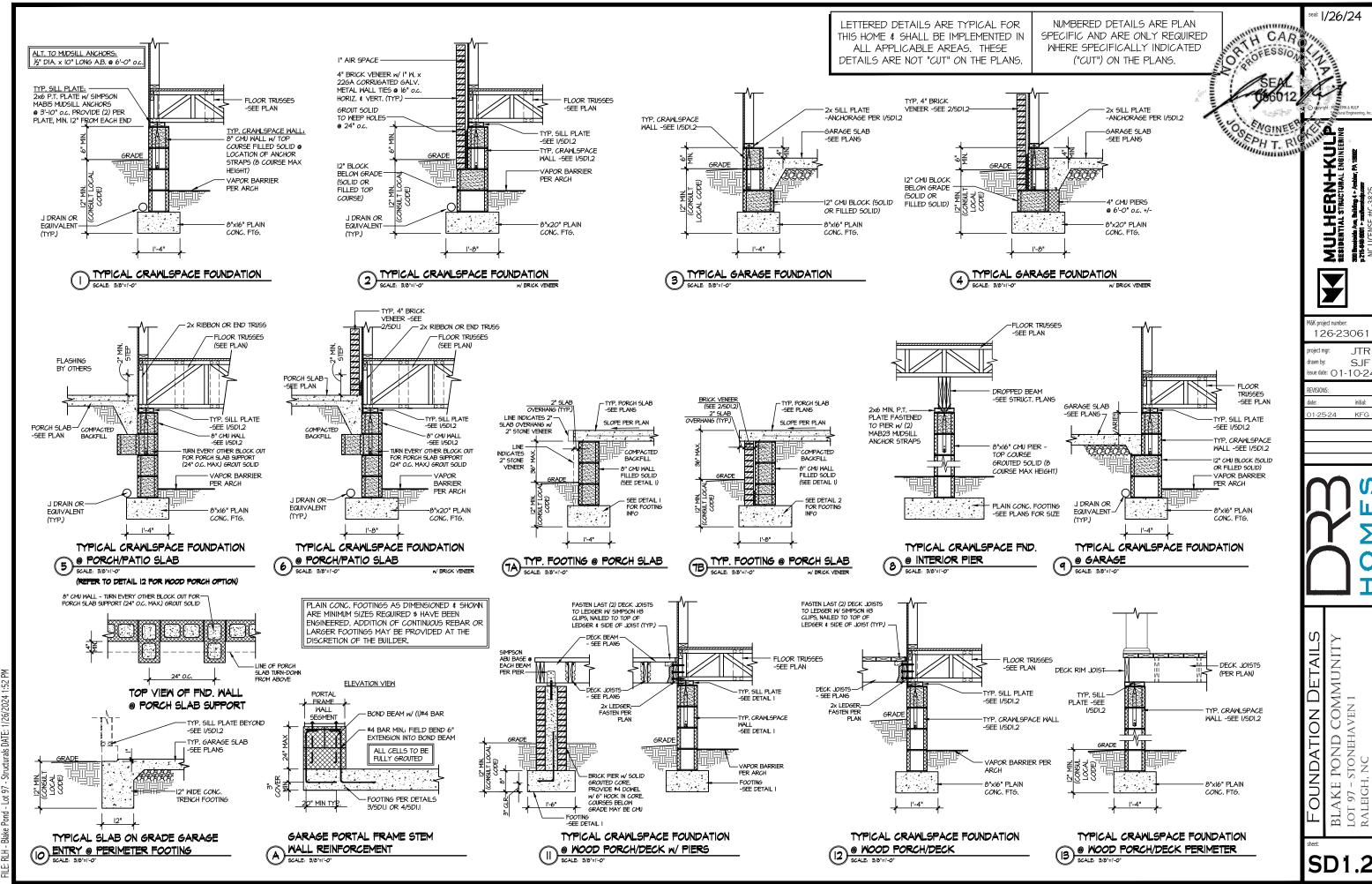
BLAKE POND COMMUNITY Lot 97 - Stonehaven 1 Raleigh, nc

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES

— ROOF TRUSSES € 24" O.C.

ROOF TRUSSES @ 24" O.C.





JTR

initial:

KFG

TYPICAL SHEAR

TRANSFER DETAIL @ ROOF

SCALE: 3/8'=1'-0' HEEL HEIGHT LESS THAN HEEL HEIGHT LESS THAN 9½" NO BLOCKING REQD

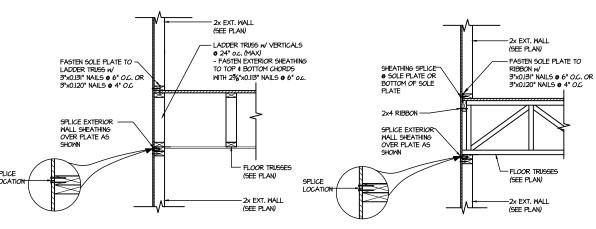
2xi0 (4 ½" - 12" HEEL) OR 2xi2 (12" - 16" HEEL) SOLID BLOCKING PANELS EVERY 3RD TRUSS BAY (12" OL. MAX) FASTEN EA. BLOCKING PANEL TO TOP PLATE w/ (4) 3"x0.13" TOENAILS -BLOCKING MUST FIT TIGHT BETWEEN TRUSSES, FASTEN EA, END OF BLOCKING TO TRUSS W(2) 3"XO.131" TOENAILS O TOP OF PANEL -Fasten Roof Trugs to top Plate of Wall With 'SIMPSON' H2.5A CLIP 2x EXTERIOR— SHEAR WALL - SEE PLAN & SPECIFICATIONS

TYPICAL SHEAR

TRANSFER DETAIL @ ROOF

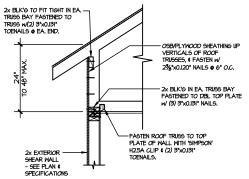
SCALE: 3/8'=1-0' HEEL HEIGHT BETWEEN 4.)

HEEL HEIGHT BETWEEN 9½" - 16" BLOCKING REQ'D

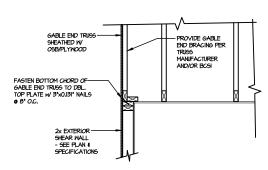


TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
SCALE SIGNAL FROM

TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
SCALE 9/9"-1"-0" FENTEDICLER FRAS

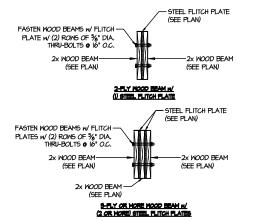


TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS

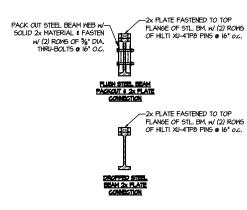


TYPICAL GABLE END DETAIL

SCALE: 3/8"=1"-0"



TYPICAL FLITCH BEAM CONNECTION DETAIL SCALE 944-11-0*



TYPICAL STEEL BEAM CONNECTION DETAIL
SCALE 9/4*-1"-0"

al: 1/26/24

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

M&K project number:

drawn by:

REVISIONS:

01-25-24

126-2306

ssue date: 01-10-24

JTR

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initial:

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TH CAR

OSEPH T. RI

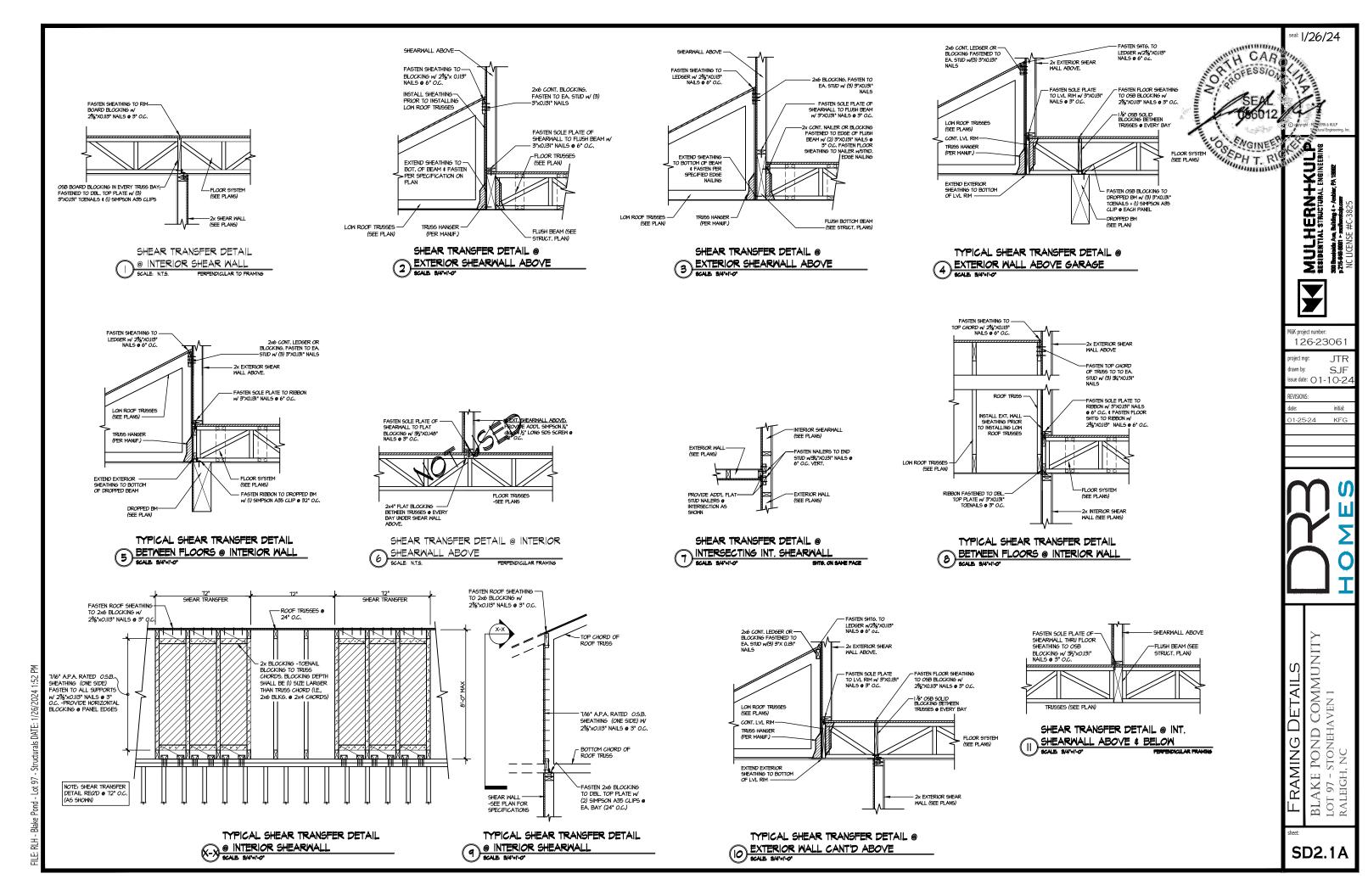
BLAKE POND COMMUNIT lot 97 - Stonehaven 1 raleigh, nc

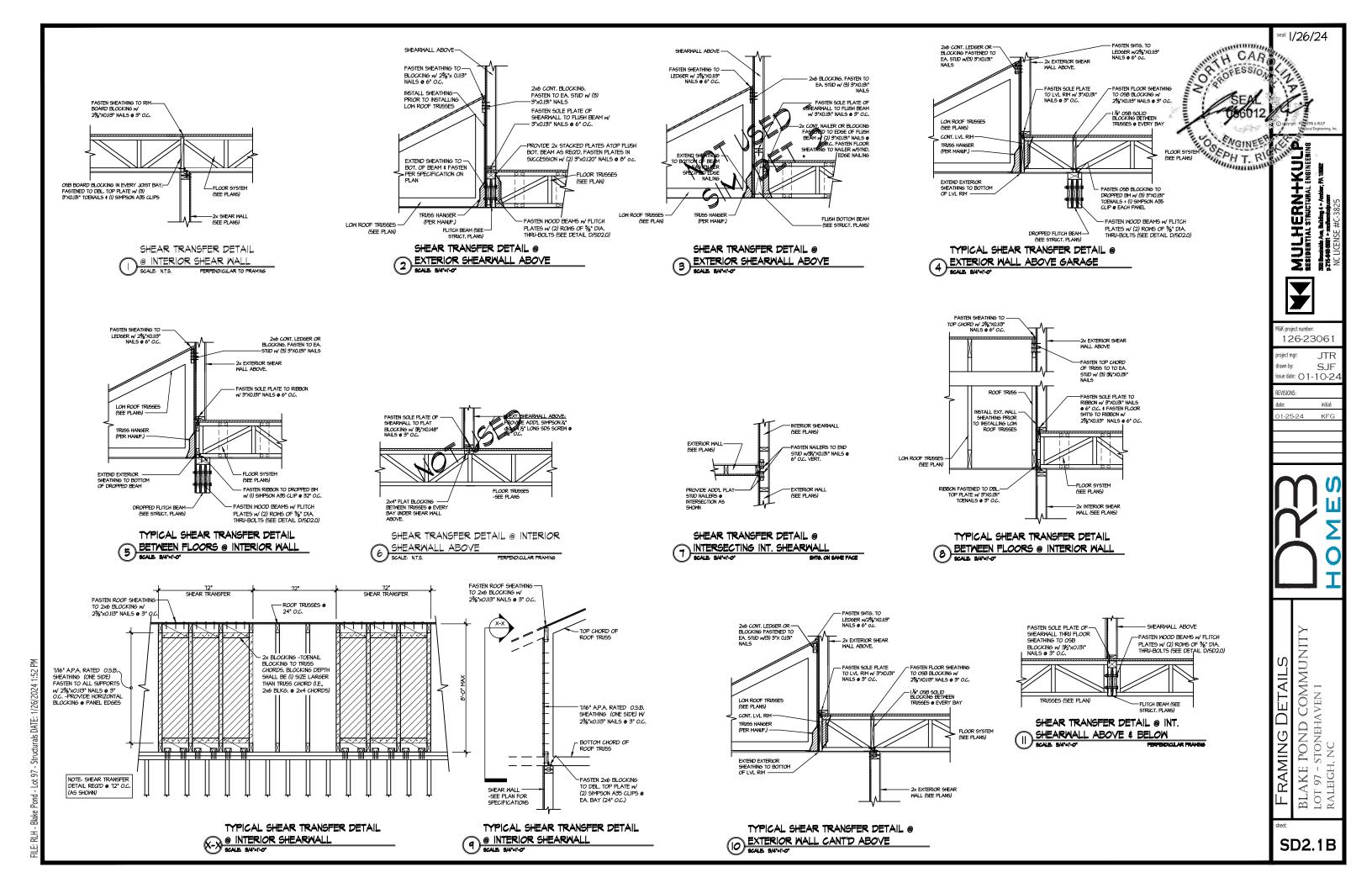
G DETAILS RAMIN

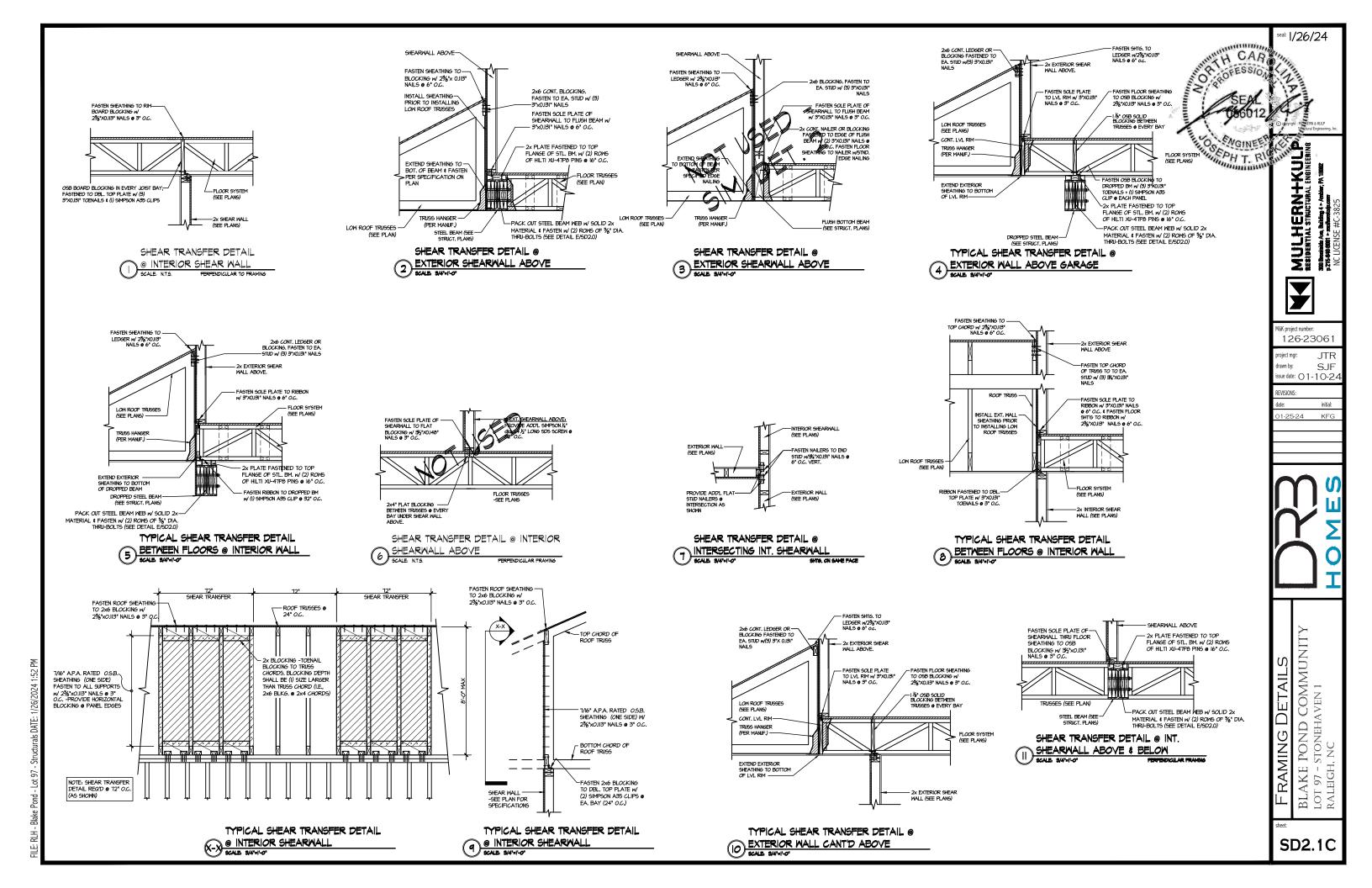
NUMBERED DETAILS ARE PLAN SPECIFIC AND ARE ONLY REQUIRED WHERE SPECIFICALLY INDICATED

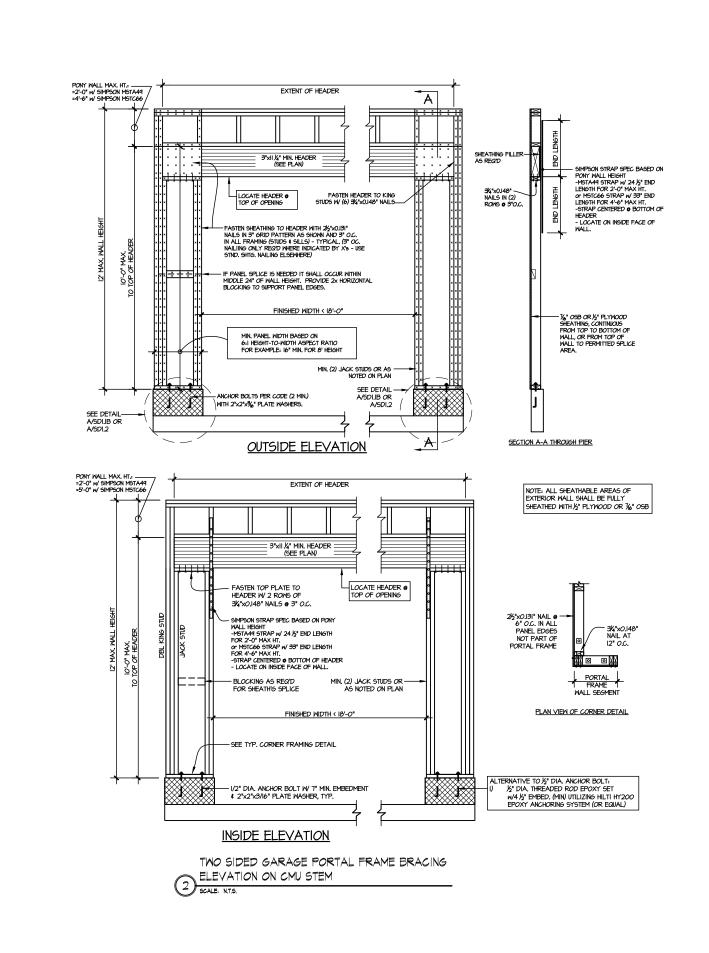
LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN ALL APPLICABLE AREAS. THESE DETAILS ARE NOT "CUT" ON THE PLANS.

("CUT") ON THE PLANS.









al: 1/26/24 MINTH CAR OSEPH T. R

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING



M&K project number: 126-23061

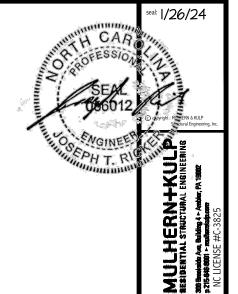
JTR drawn by: SJF issue date: 01-10-24

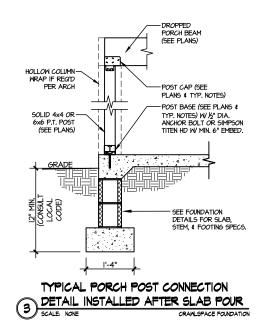
REVISIONS:

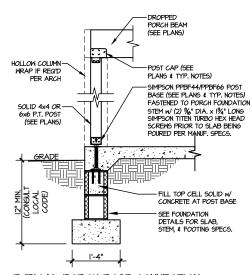
initial: KFG 01-25-24



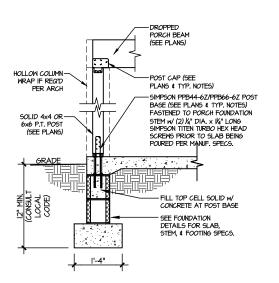
BLAKE POND COMMUNITY Lot 97 - Stonehaven 1 Raleigh, nc RAMING DETAILS











TYPICAL PORCH POST CONNECTION DETAIL INSTALLED PRIOR TO SLAB POUR SCALE: NONE CRANLSPACE FOUNDATION

M&K project number 126-2306

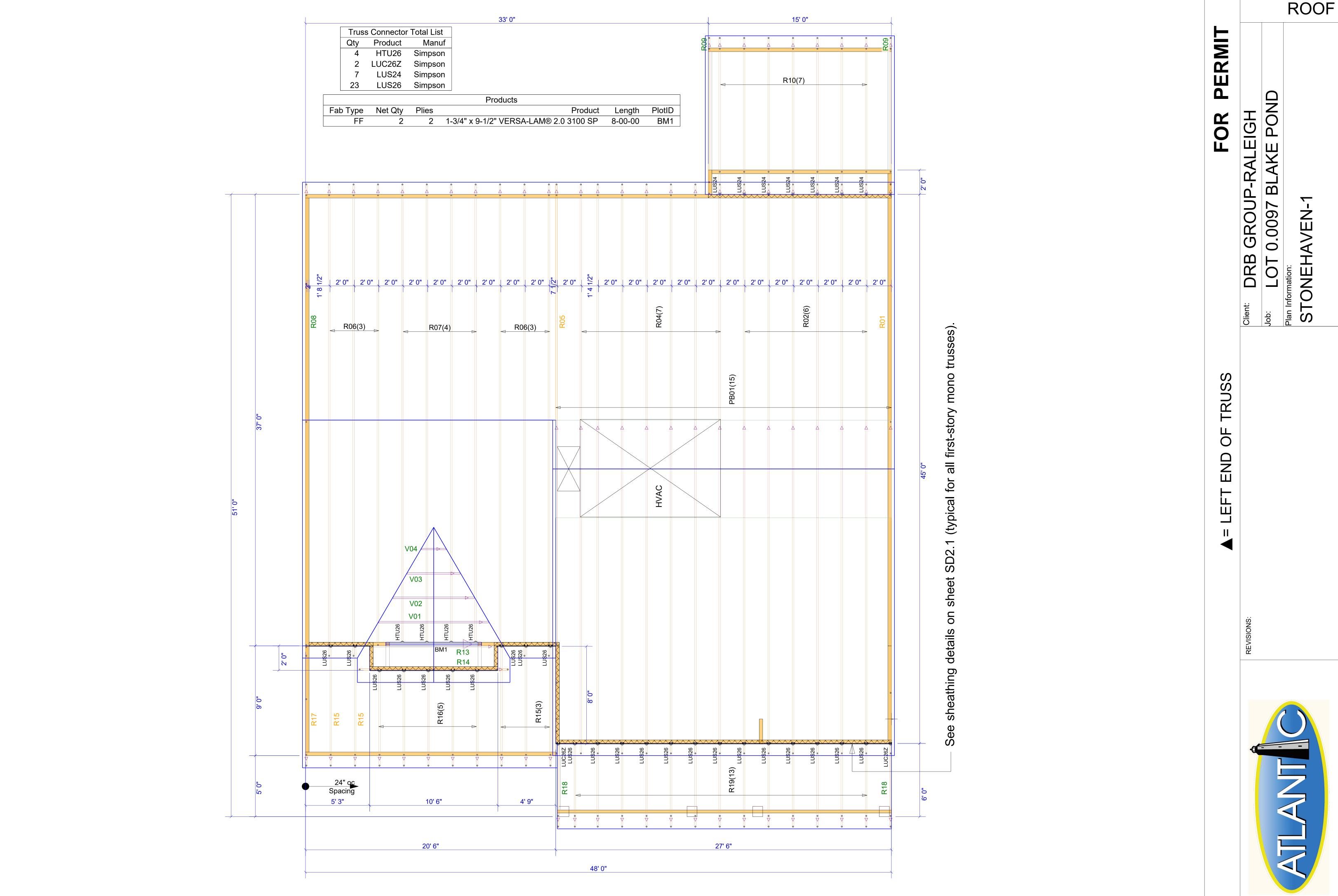
JTR

SJF drawn by: issue date: 01-10-24

REVISIONS: initial: 01-25-24 KFG

BLAKE POND COMMUNITY Lot 97 - Stonehaven 1 Raleigh, nc FRAMING DETAILS

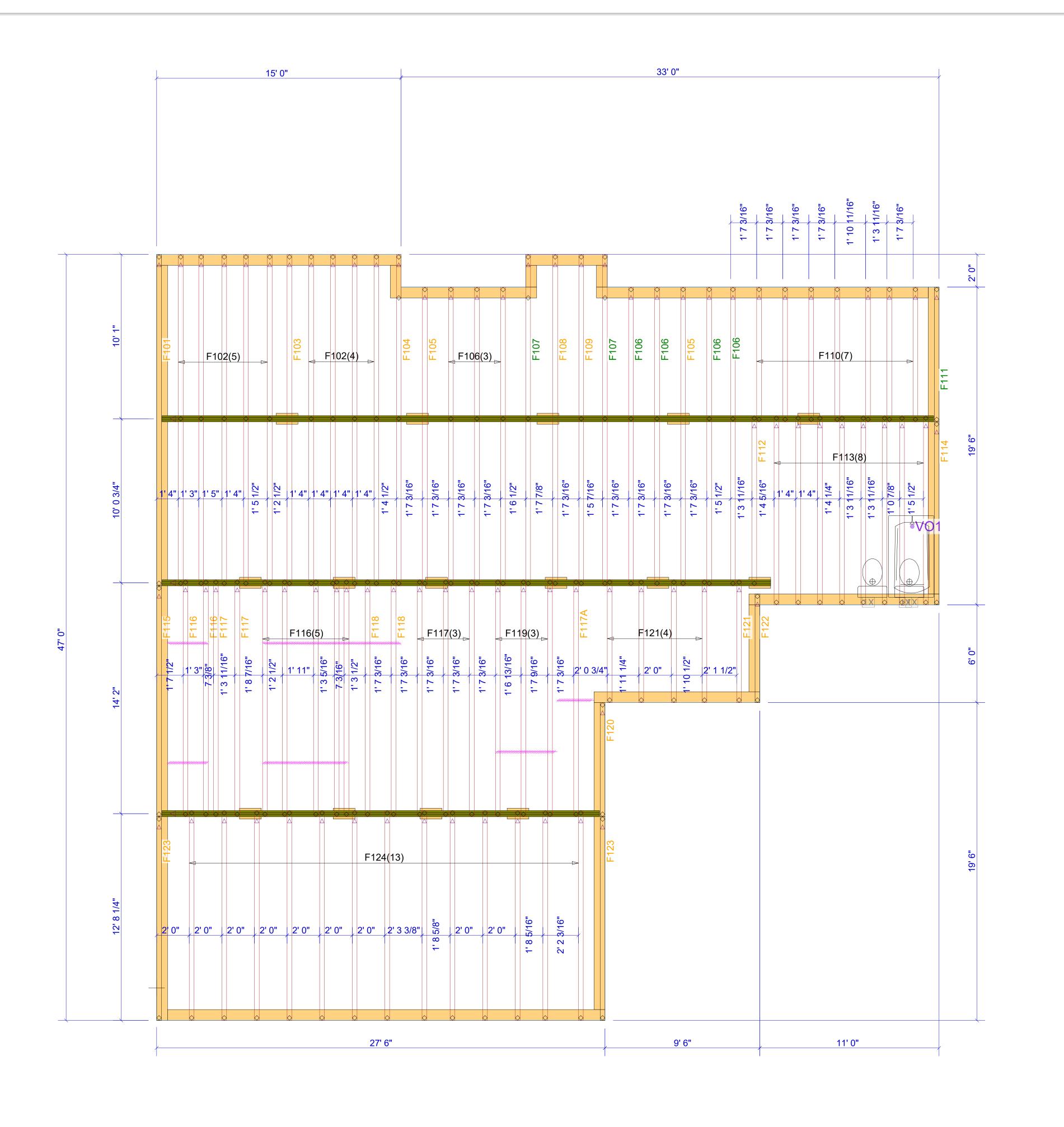
SD3.0



NOT TO SCALE

Drawn By:

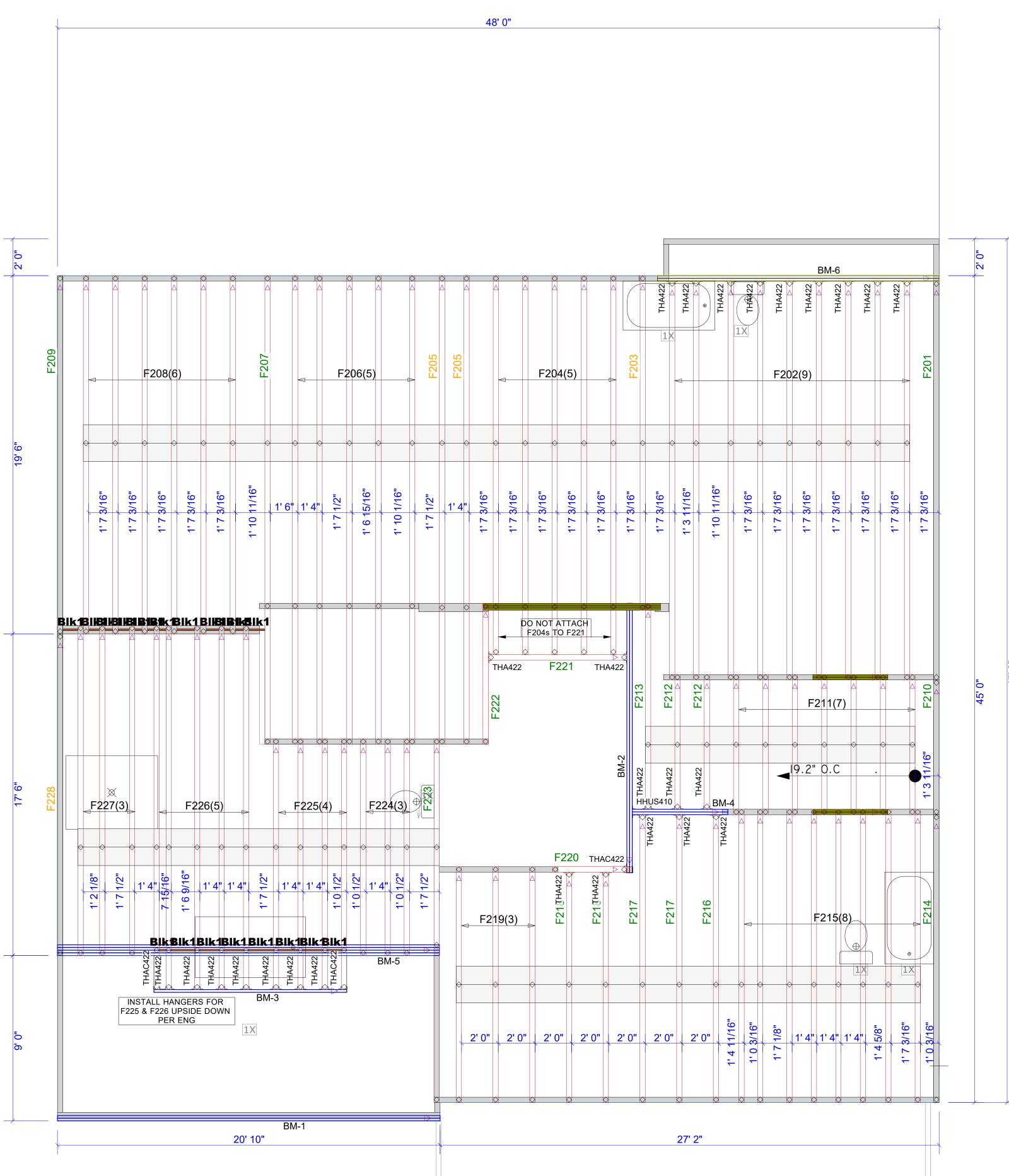
WARNING! Long span trusses, 60' or greater in length, require extreme care and experience for proper and safe handling and installation guidance, see the "Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), JOINTLY PRODUCED BY SBCA and TPI. For project specific guidance, consult with a registered design professional. ATLANTIC assumes no responsibility for the handling, installation or bracing of trusses.



FLOOR PERMIT Date: 01/09/24 Job #: Sales Rep: KYLE GIBSON 23-B625-F01 Phone: 864-304-3282 LOT 0.0097 BLAKE POND FOR DRB GROUP-RALEIGH NOT TO SCALE

Drawn By: END OF TRUSS LEFT







FLOOR

PERMIT

FOR

TRUSS

Я

END

0.0097 BLAKE

LOT

ONEHAVEN-

TO SCALE

NOT TO SO Drawn By:

WARNING! Long span trusses, 60' or greater in length, require extreme care and experience for proper and safe handling and installation guidance, see the "Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), JOINTLY PRODUCED BY SBCA and TPI. For project specific guidance, consult with a registered design professional. ATLANTIC assumes no responsibility for the handling, installation or bracing of trusses.

Products

1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

1-3/4" x 14" VERSA-LAM® 2.0 3100 SP 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP 1-3/4" x 18" VERSA-LAM® 2.0 3100 SP

1-3/4" x 18" VERSA-LAM® 2.0 3100 SP

1-1/8" x 14" BC RIM BOARD OSB

Truss Connector Total List

3 THAC422 Simpson

Manuf

Manuf Qty

Product

THA422

Connector Summary

Product None HHUS410 Simpson

Net Qty Plies