MIDDLETON-RALE

RALEIGH - LOT 00.0025 CAMPBELL RIDGE SF (MODEL# 2183)

ELEVATION 10- GR

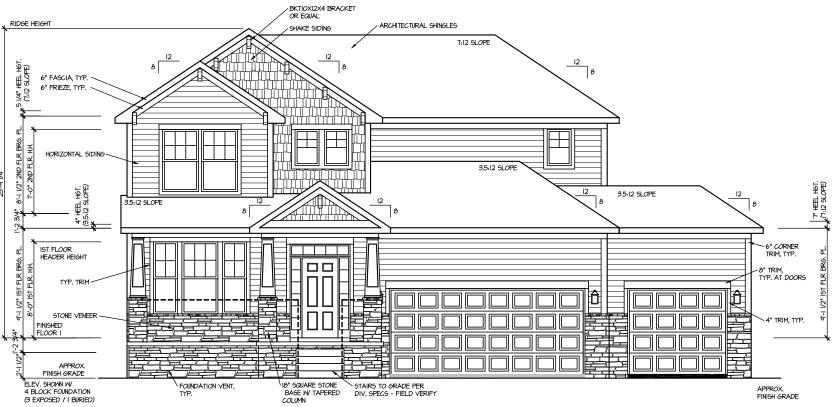


ADEA CALCULATIONS				ĺ
<u>area calculations</u>			COVERED /	
ELEVATION 10		HEATED	UNHEATED	UNCOVERED
FIRST FLOOR		1495 SF		
GARAGE			417 SF	
FRONT PORCH - ELEVATION 10			203 SF	
SECOND FLOOR		692 SF	200 01	
SESSIVE TESSIV		002 01		
OPTIONS				
BONUS ROOM		310 SF		
SCREEN PORCH		010 01	124 SF	
3RD CAR GARAGE			252 SF	
SIND CAIN GAINAGE			232 31	
TO	TAL	2497 SF	996 SF	
10	TAL	2497 SF	990 SF	
				·

63 Pinon Drive

	SPECIFIC	
1	LOT 00.0025	CAMPBELL RIDGE SF
		MIDDLETON REV. RALE 2 ELEVATION 10
2	ADDRESS	63 PINON DR ANGIER, NC 27501
	 	
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FRONT ELEVATION IO SCALE: 1/8" = 1'-0"



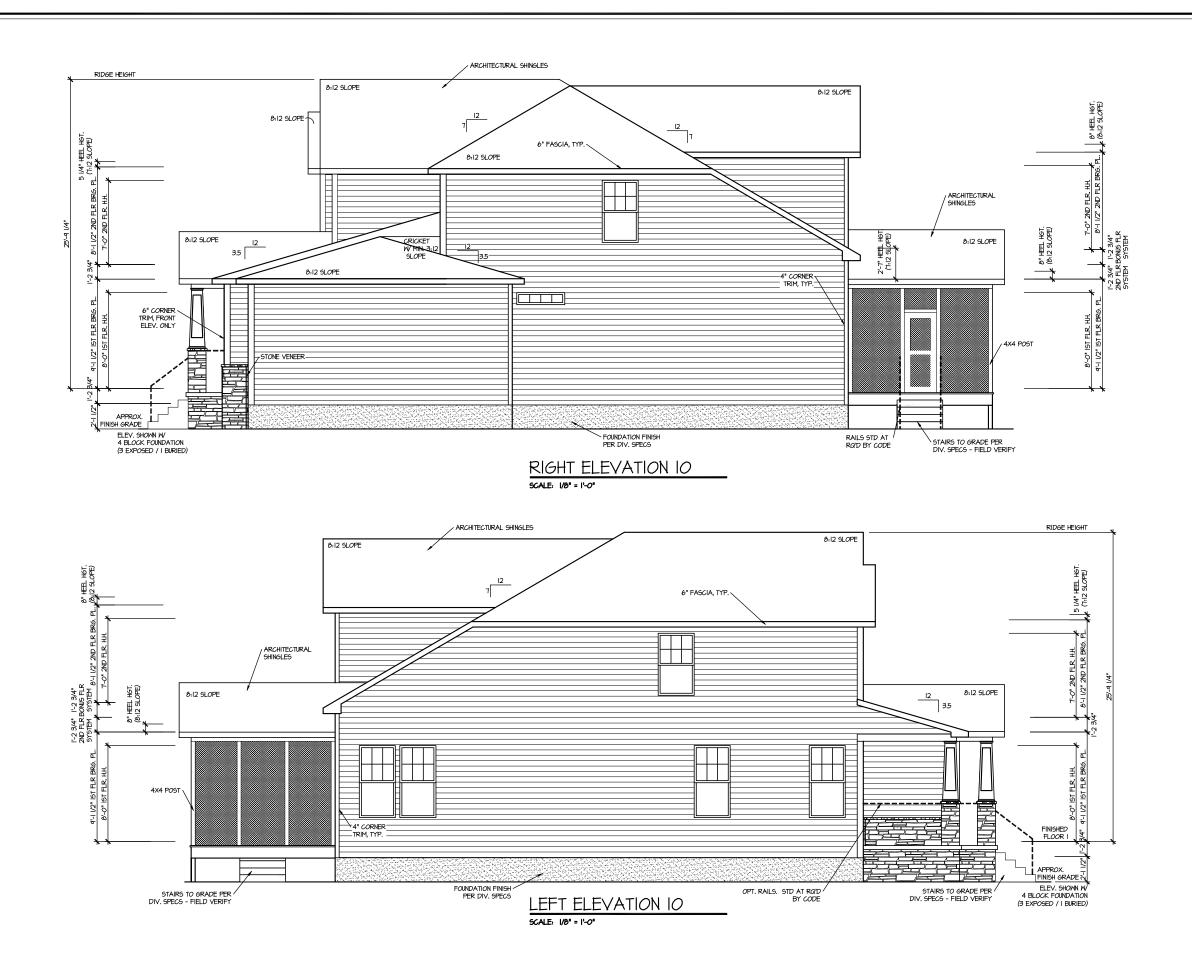
REAR ELEVATION IO

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

HOUSE NAME:
MIDDLETON
DRAWING TITLE
FRONT & REAR

DRAWN BY:

DATE: 02/21/2025 PLAN NO. 2183



| MASTER PLAN INFORMATION | PDATED DATE | REVISION | DATE | 03-20-2024 | 09-23-2024 |

DRAWN BY: ITS DATE: 02/21/2025 PLAN NO. 2183



HOUSE NAME:
MIDDLETON
DRAWING TITLE
RIGHT & LEFT ELEVATIONS

ROOF VENTIL ATION CALCULATIONS:
ROOF AREA = 1727 50, FT.
ROOF AREA = 1727 50, FT.
COMPANY TO SEE TO

LOMER MINING. (BOTTOM 2/3 RDS)

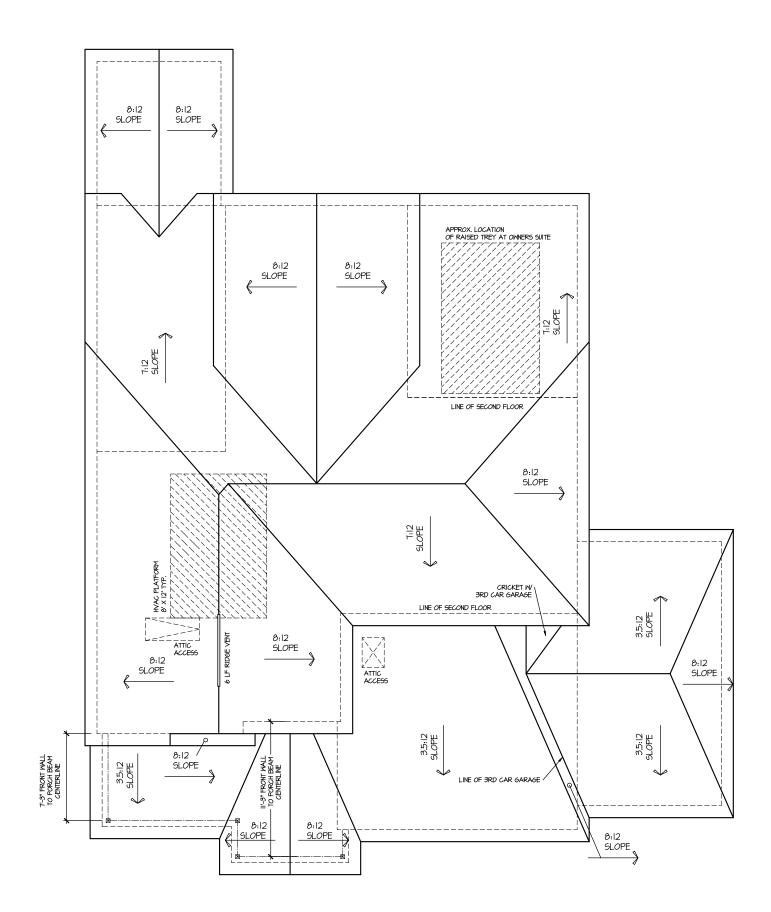
IN LINEAR FET OF SOFFIT X 5.1 50, IN. = 4.11 50, FT,

INE LINEAR FET OF ROPE X 15 50, IN. = 4.0 50, FT,

4.00 50, T. EEPINEH 508 - 508,

TOTAL ROOF VEHILLATION, 6.11 50, IF. > 5.16 50, FT, (RDD)

TOTAL ROOF VEHILLATION, 6.11 50, FT, > 5.16 50, FT, (RDD)



ROOF PLAN ELEV. 10

DRAWN BY: DATE: 02/21/2025 PLAN NO. 2183



HOUSE NAME:
MIDDLETON
DRAWING TITLE
ROOF PLAN

CRAMLSPACE VENT CALCULATIONS ALL ELEVATIONS
CRAML AREA = 1445 50, FT.
OVERAL REQUIRED VENTILATION.
I SO, IN PER I SO, FT. = 1444 50, IN.

NET FREE AREA OF VENT = 12 SQ. IN. PER VENT WITTEN AUTOMATIC VENT OAL-I OR EQUAL

<u>VENTING REQUIREMENT:</u> 1495 SQ. IN. / 72 SQ. IN = 20.7 VENTS = 21 VENTS

ONLY VENTS ON THE FRONT ELEVATION ARE SHOWN. ALL OTHERS TO BE FIELD LOCATED.

VENTS SHALL BE INSTALLED PER R322.2.2 - R322.2.2.1

52'-0" 12'-0" SCREEN PORCH DECK CRAMLSPACE ACCESS 32"X24"* LINE OF ELEC.
CONDUIT FOR ISLAND 8'-6 1/4" HOUSE DECK O" A.F.F.I WOOD SUBFLOOR 7'-8 1/2" FIELD VERIFY DROP FROM HOUSE APPROX. LOCATION
OF 2ND FLOOR PLUMBINGSTACK 4'-11 1/2" FIELD VERIFY WATER
HEATER TYPE / LOCATION
FRAMED WALL
15'-5" 4'-3 1/2" SLOPE SLAB FOR DRAINAGE GARAGE CONC. WEATHERLIP 20'-0" PORCH -4" AFF.I CONC. LINE OF 8" CMU 16'-3" WEATHERLIP 1'-10 1/2"| 9'-10 1/2" 10'-9 1/2"

ELEVATION IO CRAWL SPACE PLAN SCALE: 1/8" = 1'-0"

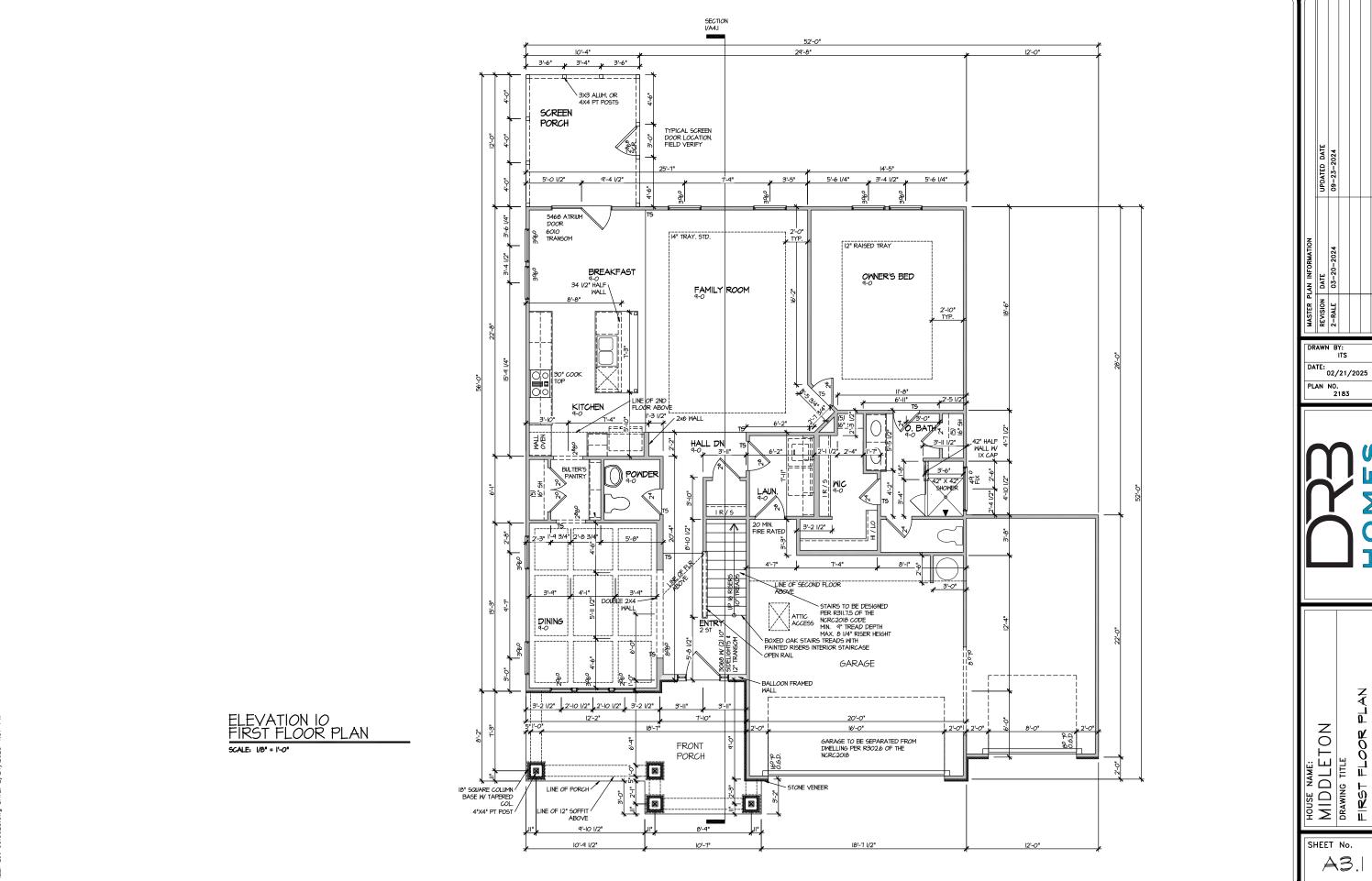
DATE
03-20-2024 DRAWN BY:

DATE: 02/21/2025 PLAN NO. 2183

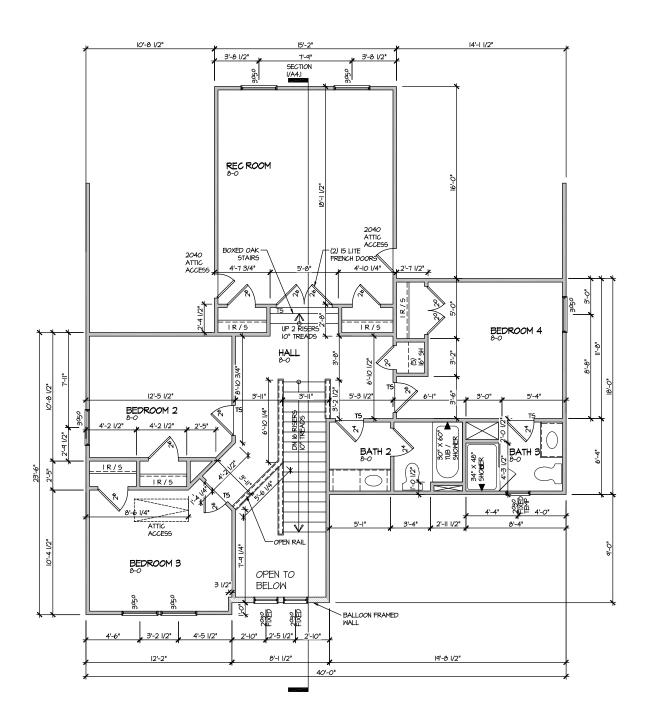


HOUSE NAME:
MIDDLETON
DRAWING TITLE ACIII O)

SHEET No. A2.



DRAWN BY: DATE: 02/21/2025 PLAN NO. 2183



ELEVATION IO SECOND FLOOR PLAN SCALE 100' = 1'-0"

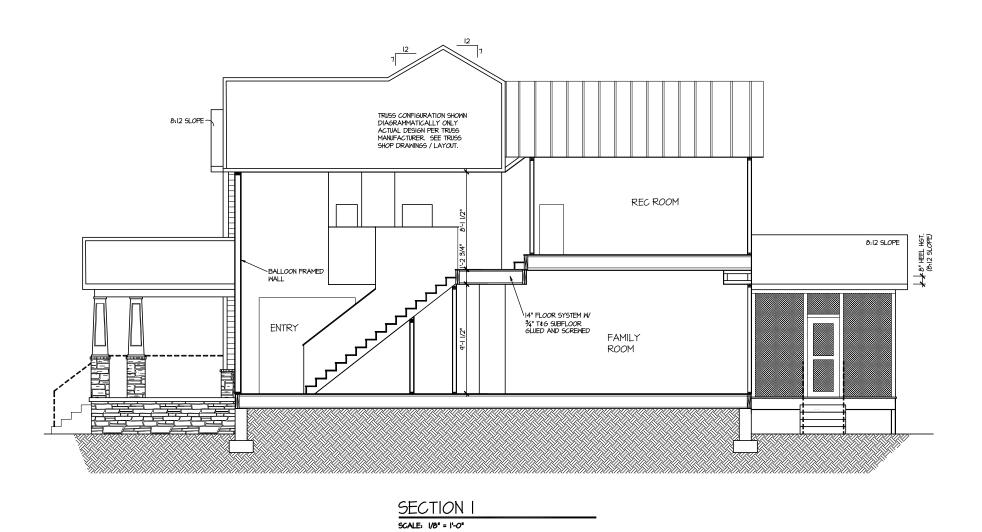
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PLAN NO. 2183

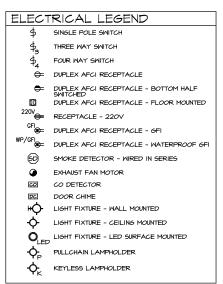
HOUSE NAME:
MIDDLETON
DRAWING TITLE
SECOND FLOOR PL



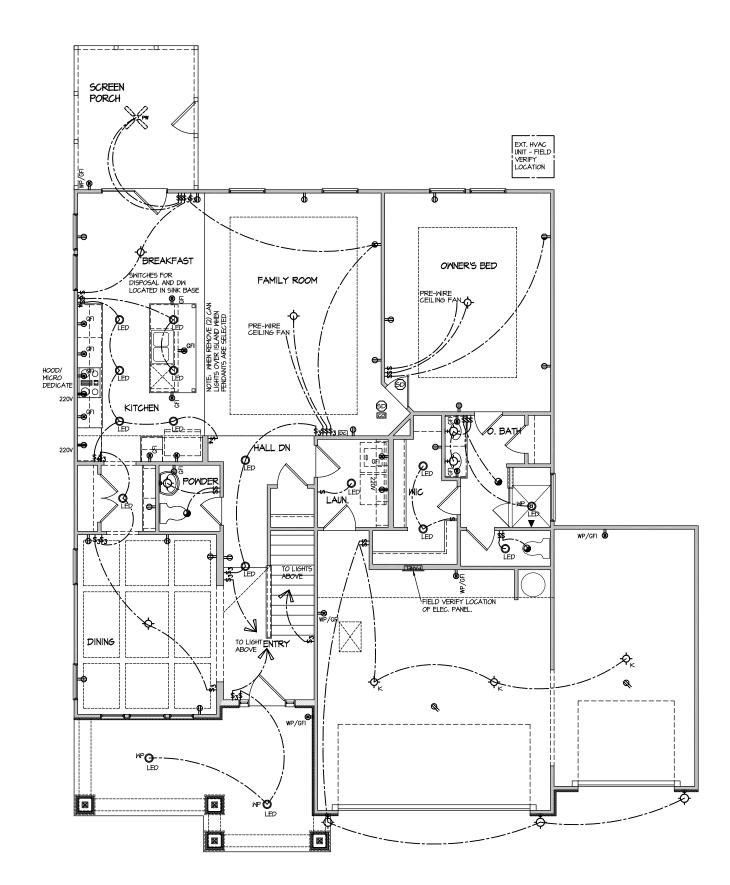
DRAWN BY: DATE: 02/21/2025 PLAN NO. 2183

HOUSE NAME:
MIDDLETON
DRAWING TITLE
BUILDING SECTION の目の一

SHEET No. A4.1



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



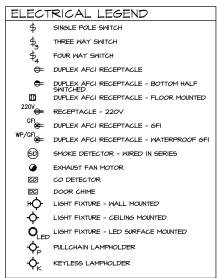
ELECTRICAL PLAN FIRST FLOOR - ELEV. 10 SCALE: 1/8" = 1'-0"

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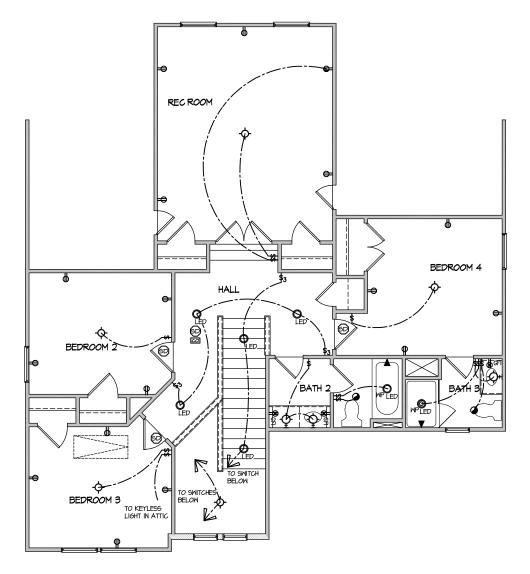
HOUSE NAME:
MIDDLETON
DRAWING TITLE
FIRST FLOOR ELE

DRAWN BY: ITS DATE: 02/21/2025

PLAN NO. 2183



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



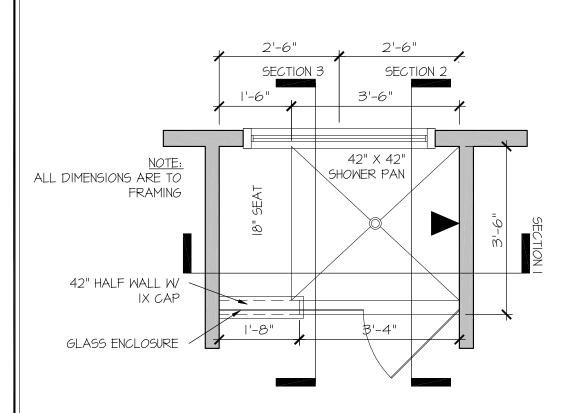
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PLAN NO. 2183



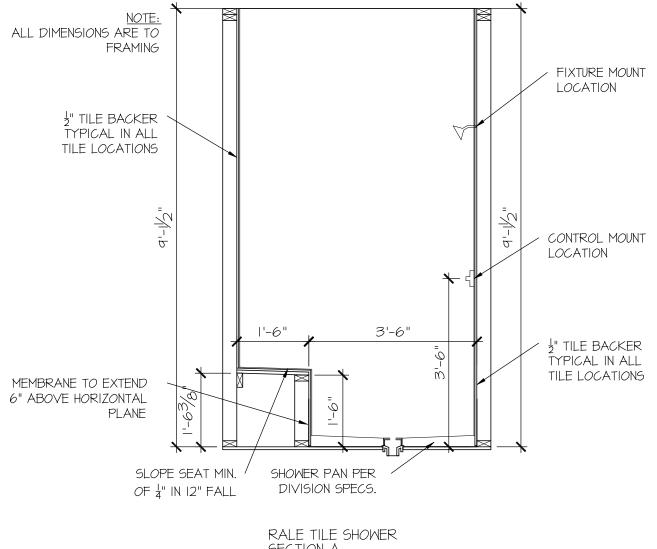
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HOUSE NAME:
MIDDLETON
DRAWING TITLE
SECOND FLOOR



RALE TILE SHOWER 42" X 42" W 18" SEAT

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



SECTION A

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

CONSULTANT LOGO

DRAWN BY: L. BEAVERS DATE: 9/1/22 PLAN NO.

11 X 17 SCALE

24 X 36 SCALE



DETAIL SHOWER RALE



SEAL

DRAWN BY:
L. BEAVERS
DATE: 9/1/22

PLAN NO.

24 X 36 SCALE

~ "

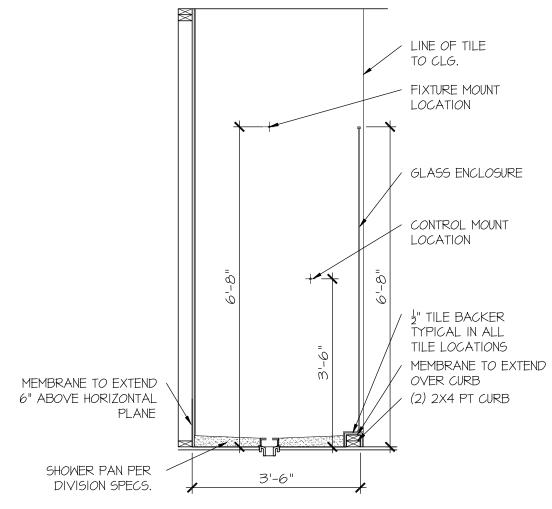


E ILE SHOWER DETAIL

OUSE NAME:

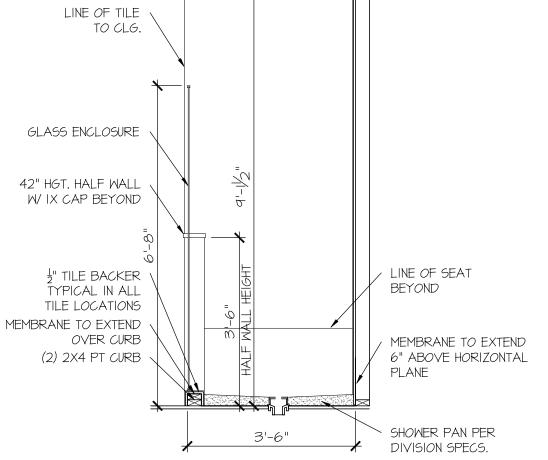
SHEET No.

P||.2



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





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

「2%"x0.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS. (ONLY ACCEPTABLE WHERE * ARE SHOWN)

LEGEND

- INTERIOR BEARING WALL □==== BEARING WALL ABOVE
- ■ FAM / 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.

NON-BEARING HEADER SCHEDULE

SPAN	2x4 Non-Bearing Partition Wall	2x6 NON-BEARING PARTITION WALL
UP TO 3'-0"	(I)2x4 FLAT	(I)2x6 FLAT
UP TO 6'-0"	(2)2x4	(3)2x4
UP TO 8'-0"	(2)2x6	(3)2x6
UP TO 12'-0"	(2)2x8	(3)2x8

 ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS SPACED @ 24" O.C. (MAX.)

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELE SUPPORTING AND STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO 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 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 ELEMEN IN 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.

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

- I/4" DEAD LOAD
- B. FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS
- C. FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO FLOOR FRAMING BY OTHERS:
 LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAL 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

DEAD = 7 PSF T.C., IO PSF B.C. ROOF LIVE = 16 PSF 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)

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

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

(ADD'L IO PSF @ TILE)

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 • 16" 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 B SPRUCE-PINE-FIR #2 (SPF) OR SOUTHERN PINE #2 (SYP) LUMBER. 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).

PENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING:

- 'LSL' Fb=2325 psi; Fv=310 psi; E=1.55x10^6 psi • 'LVL' - Fb=2600 psi; Fv=285 psi; E=2.0x10^6 psi
- 'PSL' FB=2900 PSI; FV=290 PSI; E=2.0XI0^6 PSI
- M+K SHALL BE FULLY INDEMNIFIED FOR ANY AND ALL ISSUES RESULTING FROM OR RELATED TO ANY BUILDING COMPONENT IF THE OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO M+K FOR STRUCTURAL REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.
- FOR 2 & 3 PLY BEAMS OF FOLIAL WIDTH FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"x0,120" NAILS @ 8" O/C OR 2 ROWS 1/4"x3/5" 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 EDGE. SOLID 3 1/2" OR 5 1/4" 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 1/4"x6" SIMPSON SDS SCREWS (OR 6 3/4" TRUSSLOK SCREMS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTI 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 UNO.
- ALL MULTI-PLY STUDS TO BE FASTENED TOGETHER W/ 3"XO.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 2V 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

FLOOR FRAMING

- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OF EXCEED 1 /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 3" x 0.131" NAILS @ 6"04. @ PANEL EDGES & @ 12"04. FIELD.
- 2 3" x 0 120" NAIL S @ 4" O C @ PANEL EDGES & @ 8" O C FIELD - 2 3" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. 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 CLIF (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. (I-JOISTS) TRUSS VERTICALS w/ (3) 3"x0.131" NAILS \bullet 19.2" O.C. MAX.
- ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS
- w/ 2 1 x 0.131 NAII S @ 6"04. @ PANEL EDGES & @ 12" 04. FIELD. - w/ 2 3" x 0.120" NAIL S @ 4"04. @ PANEL EDGES & @ 8" 04. FIELD.
- W/ 2 3 × 0.113 NAILS 3 o.c. PANEL EDGES \$ 6 O.C. FIELD.

HOLD-DOWN SCHEDULE

5YMB0L	SPECIFICATION
► HD-I	SIMPSON HTT4 HOLD-DOWN * (%" DIA. ANCHOR)
HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.) -OR- MSTC66B3 ALTERNATE
▶ HD-3	SIMPSON STHDI4/STHDI4RJ

* LITTLE THE SSTB24 ANCHOR BOLT @ ALL MONOSI AB & INTERIOR RAISED SLAB (I.E. THICKENED SLABS, FOOTINGS) CONDITIONS. MINIMUM 24" MIN. FOOTING THICKNESS REQUIRED.

POXY-SET ALTERNATE FOR MONOSLAB & INTERIOR RAISED SLAB CONDITIONS ONLY: UTILIZE SIMPSON 'SET' EPOXY SYSTEM TO FASTE THREADED ROD INTO CONCRETE FOUNDATION, PROVIDE 10" (FOR 5/8" DIA.) OR 15" (FOR 1/8" DIA) MIN EMBEDMENT INTO CONCRETE INSTALL PER MANUF. INSTRUCTIONS. MINIMUM 16" FOOTING THICKNESS REQ'D. DO NOT LOCATE ANCHORS WITHIN 13/4" OF EDGE OF CONCRETE.

VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE
3'-0"	20 FT. MAX	L3"x3"x/4"
	3 FT. MAX	L3"x3"x/4"
6'-0"	I2 FT. MAX	L4"x3"x/4"
	20 FT. MAX	L5"x3½"x%;"
	3 FT. MAX	L4"x4"x/4" *
8'-0"	I2 FT. MAX	L5"x3½"x%"
	I6 FT. MAX	L6"x3½"x¾"
9'-6"	I2 FT. MAX	L6"x3½"x¾6"
16'-0"	2 FT. MAX	L7"x4"x½" **
10-70	3 FT. MAX	L8"x4"x½" **

- REL LINILESS SHALL SUPPORT 2 %" 3 ½" VENEER W/ 40 PSF MAXIMUM MEIGHT. < 16' SHALL HAVE 3" MIN. BEARING S 16' SHALL HAVE 6" MIN. BEARING < 16' SHALL NOT BE FASTIENED BACK TO HEADER. = 16' SHALL DE FASTIENED BACK TO MOOD HEADER IN WALL. 040°02.

- >> 10' SHALL BE FASTENED BACK TO MOOD HEADER IN WALL 448°C.
 W 15' DIA. X 3 15' LONG LAG SCREPG IN 2' LONG VERTICALLY
 SLOTTED HOLES.
 MAX. VENEER HT. APPLIES TO ANY PORTION OF BRICK OVER THE
 OFFENING.
 ALL LINTELS SHALL BE LONG LEG VERTICAL.
 WERD SUPPORTING VENEER: 35' WIDE THE EXTERIOR TOE OF THE
 HORIZONTAL LEG MAY BE CUT IN THE FIELD TO BE 3 15' WIDE OVER
 THE BEARING LENGTH ONLY. THIS IS TO ALLOW FOR MORTAR JOINT
 FINISHING.
- FINISHING.
 SEE STRUCTURAL PLANS FOR ANY LINTEL CONDITION NOT
 BICOMPASSED BY THE ABOVE PARAMETERS, FOR ANY LINTEL
 FASTENED BACK TO BEAM, FASTENERS SHALL MAINTAIN A 2½*
 (MINIMAM CLEAR DISTANCE FROM BOTTOM OF BEAM.
- (MINIMON) OLEAR USE L4x33/4".

 FOR QUEEN VENEER USE L4x33/4".

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

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 R30L2 LI) EXP. B. RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 IBC (SECTION 1609) & ASCE 7-10, AS PERMITTED BY R301.1.3 OF THE 2018 NCSBC:RC, OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.12 COMPLY CORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIET 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 R602.3.5 R802.II

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 3/8"XO.II3" NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE PANEL FIELD. TYP, U.N.O.
- HORIZONTAL BLOCKING OF EXT. WALL/SHEAR WALL PANEL EDGES IS <u>NOT</u> 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. I K" IS 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 13/4" 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 OF SHEAR WALL OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING.

NOTES

- SEE CONNECTION SPECIFICATIONS CHART FOR ADDITIONAL CAPACITY IS REQUIRED BY DESIGN. T 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 SHEARWAL

INDICATES HOLDOWN BELOW

GENERAL STRUCTURAL NOTES

FOUNDATION

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING & DE RESIDENTIAL CODE. FOOTING DESIGN - 2,000 PSF ALLOWABLE SOIL BEARING PRESURE
- IS ASSUMED, BUILDER/CONTRACTOR MUST VERIFY.
- FASTEN 2x4/6 SILL PLATES TO FND WITH A MINIMUM OF 2 ANCI-PER PLATE, I2" MAX. FROM PLATE ENDS - UTILIZING:
- 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 10' 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 VERIFY 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" CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN
- THE FOLLOWING MIN, COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.: 4,000 psi: FOUNDATION WALLS 2500 psi: FOOTINGS & INTERIOR SLABS ON GRADE 3,000 psi: GARAGE & EXTERIOR SLABS ON GRADE ieg 000.00
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
- 9' OR 10' HEIGHT (AS NOTED ON PLANS) TALLER WALLS MUST BE ENGINEERED • NOMINAL WIDTH (91/2" 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
- 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 10" CONCRETE
- DEPTH OVER OPENING OR (3)2xIO 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
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY
- 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 (F'm=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 P.T. 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. DIMENSIONS BY OTHERS, BUILDER TO VERIFY.
- BUILDER TO VERIFY THAT MODEL HAS BEEN ADEQUATELY TREATED BY A LICENSED AND BONDED PEST CONTROL COMPANY FOR SUBTERPANEAN TERMITES, METHOD AND TYPE OF TREATMENT TO BE DETERMINED BY PEST CONTROL COMPANY.

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

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ENGINE

EPH T. R

al: 3/4/25

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&K project numbe 126-24045

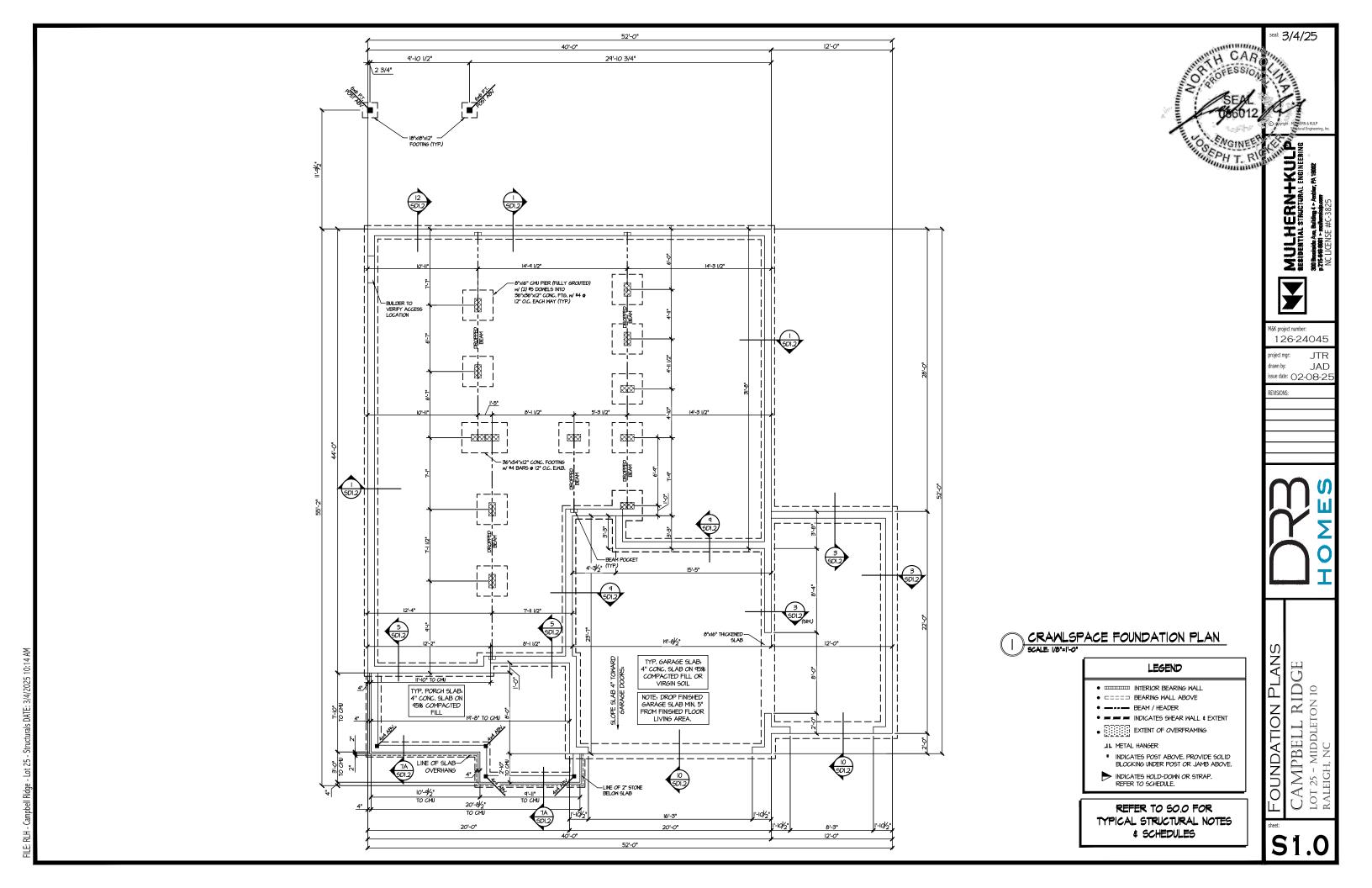
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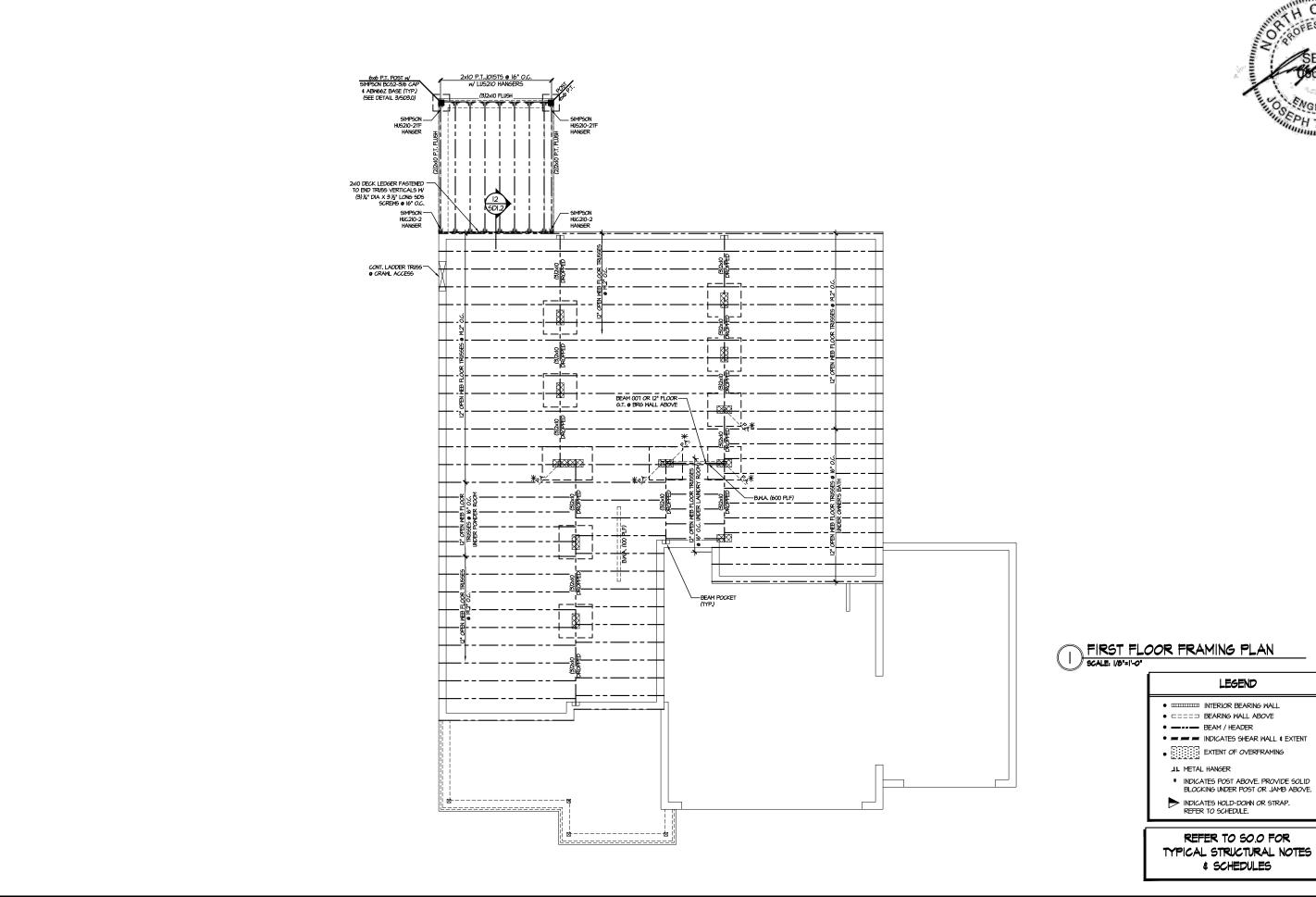
REVISIONS:



TRUCTURAL NOT RIDGI ON 10 MIDDLETON AMPBELL

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eal: 3/4/25 TH CAR O ENGINEER

MULHERN+KUL TEST DENTAL STRUCTURAL ENGINEERIN



M&K project number: 126-24045

JTR drawn by: JAD ssue date: 02-08-25

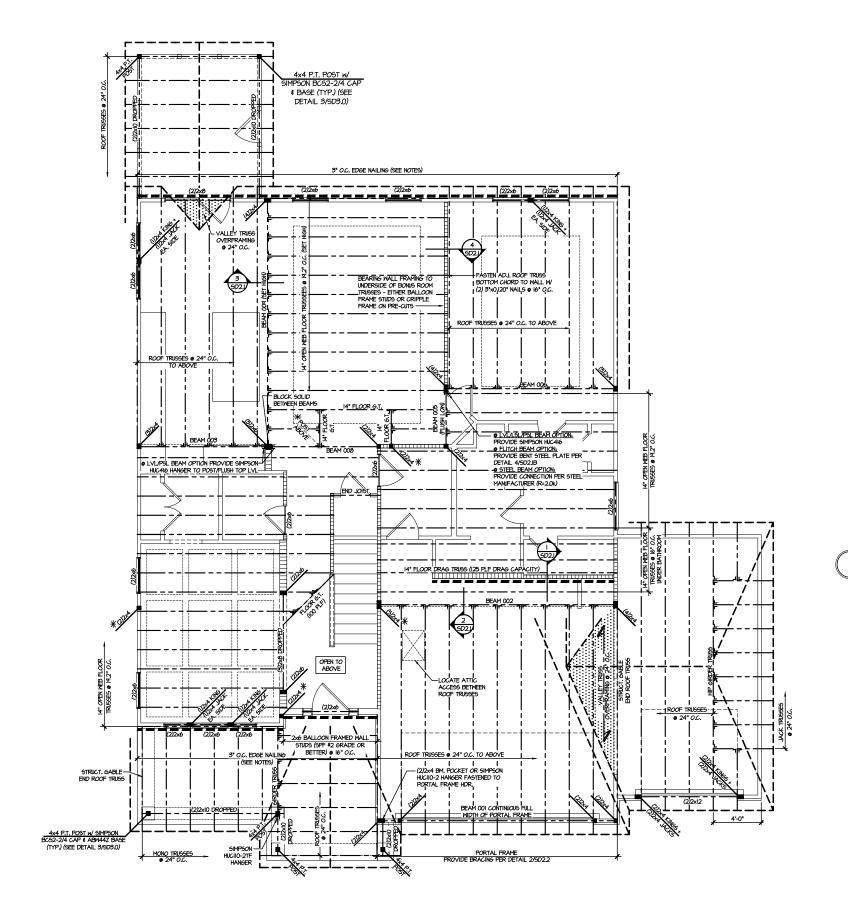
REVISIONS:



FLOOR FRAMING PLANS

CAMPBELL RIDGE LOT 25 - MIDDLETON 10 RALEIGH, NC

S2.0



TH CAR OSEPH T. RIV MULHERN+KUL RESIDENTIAL STRUCTURAL ENGINEERIN

al: 3/4/25

Y

1&K project number: 126-24045

rawn by:

REVISIONS:

JTR

JAD issue date: 02-08-25

O

INTERIOR BEARING WALL

□==== BEARING WALL ABOVE

• ---- BEAM / HEADER

• = = INDICATES SHEAR WALL & EXTENT

LEGEND

• 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

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

2ND FLOOR FRAMING PLAN SCALE: 1/8"=1'-0"

	15	R STEEL BEAM	FO		10
		RIAL SCHEDULE	SEAM MATER	SINEERED E	EN
4,5,-,5,-	STEEL OPTION	FLITCH OPTION	LSL OPTION	PSL OPTION	ON
	N/A	(2)2xl2 + (l) 片"xllk" STEEL FLITCH PLATE - H	(2)134"×1136" - H	3½"xII%" - H	- H
1	N/A	(2)2xi2 + (i) ½"xil¼" STEEL FLITCH PLATE - H	(2)134"x1136" - H	3½"×I1%" - H	- H
S	WI2xI9 - F	(3)2xl2 + (2) ½"xll½" STEEL FLITCH PLATES - FB	N/A	5¼"×18" - FT	- FT

BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)194"×1176" - H	3½"xII%" - H	(2)134"xII%" - H	(2)2xl2 + (l) 片"xll片" STEEL FLITCH PLATE - H	N/A
00IA	(2)1¾"x11½" - H	3½"×II%" - H	(2)13/4"x113/6" - H	(2)2xl2 + (l)火"xll火" STEEL FLITCH PLATE - H	N/A
002	(2)13/4"x18" - FT	51/4"×18" - FT	N/A	(3)2xl2 + (2) 片"xll4" STEEL FLITCH PLATES - FB	WI2xI9 - F
003	(2)134"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xl2 + (l)从"xll以" STEEL FLITCH PLATE - FB	WI2xI4 - F
004	(2)134"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xl2 + (l)从"xll以" STEEL FLITCH PLATE - FB	WI2xI4 - F
005	(2)134"×14" - F	3½"x14" - F	(2)13/4"×14" - F	(2)2xl2 + (l) 从"xll以" STEEL FLITCH PLATE - FB	WI2xI4 - F
006	(2)134"×14" - F	3½"xi4" - F	(2)13/4"×14" - F	(2)2xl2 + (l)从"xli以" STEEL FLITCH PLATE - FB	WI2xI4 - F
001	(2)13/4"x111/6" - F	3½"xII%" - F	(2)134"x1136" - F	(2)2xl2 + (l)从"xll以" STEEL FLITCH PLATE - F	WIOxI2 - F
000	(2)134"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xl2 + (l)从"xll以" STEEL FLITCH PLATE - FB	WI2xI4 - F
004	(3)13/4"x18" - FT	5¼"xl8" - FT	N/A	(4)2xi2 + (3) ½"xil¼" STEEL FLITCH PLATES - FB	WI2x26 - F
010	(3)13/4"x20" - FT	5¼"x20" - FT	N/A	(4)2xl2 + (3) %"xlik" Steel Flitch Plates - FB	WI2x35 - F
OII	(2)134"x1136" - FB	3½"x %" - FB	(2)13/4"x14" - FB	(2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATE - FB	MIOxi2 - FB

BEAM NOTATION: - "F" INDICATES FLUSH BEAM

- "FT" INDICATES FLUSH TOP BEAM "FB" INDICATES FLUSH BOTTOM BEAM
- "D" INDICATES DROPPED BEAM
- U 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.

RIDGE FON 10 RAMING

MIDDLETON CAMPBELL OOR



HESIDE SUBMOSE

M&K project number: 126-24045

project mgr: JTR
drawn by: JAD
issue date: 02-08-25

REVISIONS:

ROOF FRAMING PLAN
SCALE: 1/8"=1"-0"

LEGEND

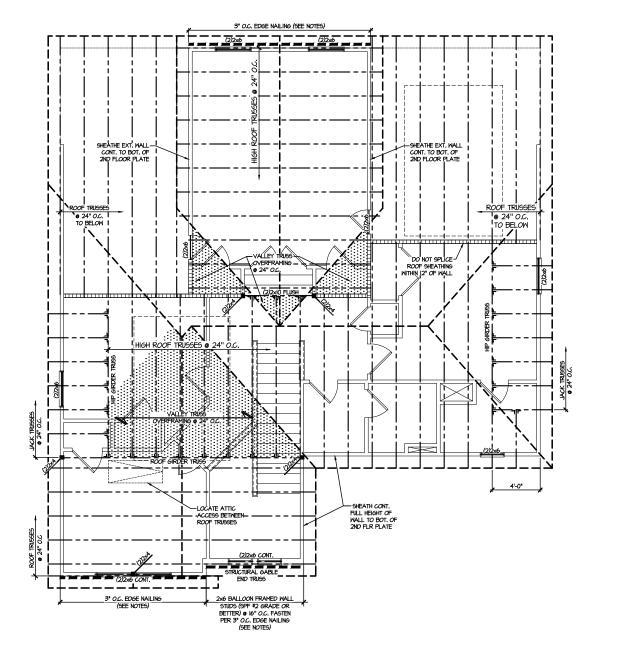
- INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- ---- BEAM / HEADER
- = = INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- JL METAL HANGER
- * INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP.
 REFER TO SCHEDULE.

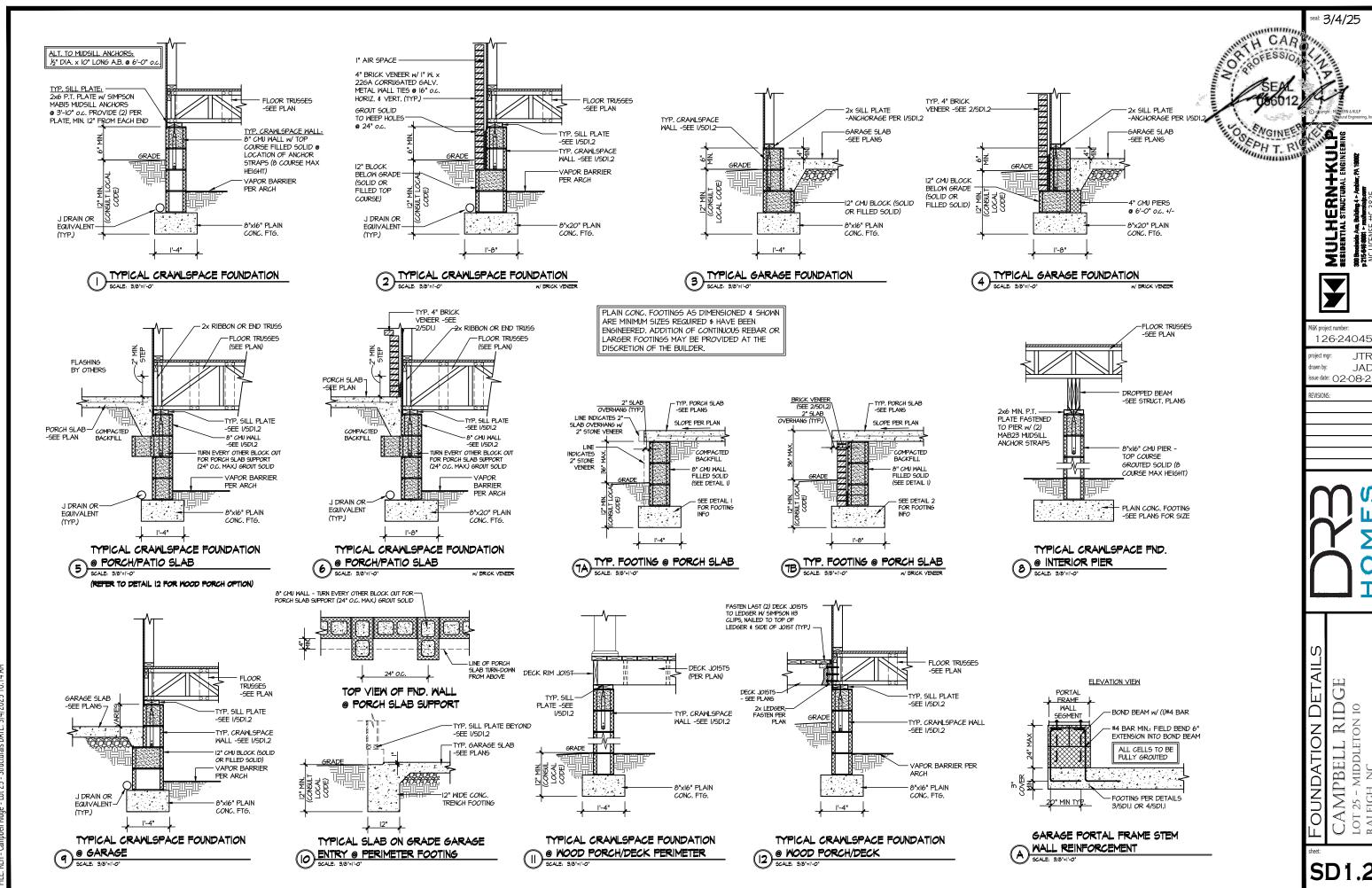
REFER TO SO.O FOR
TYPICAL STRUCTURAL NOTES

& SCHEDULES

ROOF FRAMING PLANS
CAMPBELL RIDGE
LOT 25 - MIDDLETON 10
RALEIGH, NC

sheet: **\$4.0**





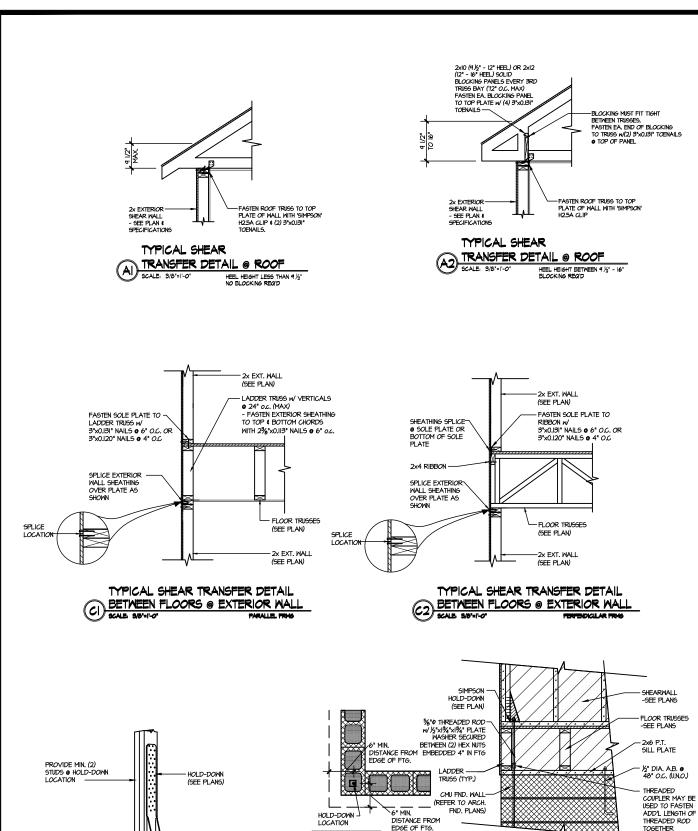
MIDDLETON AMPBELL

RIDGE

JTF

JAD

SD1



EMBEDMENT

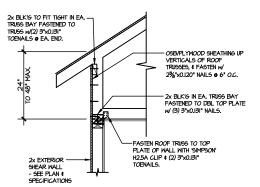
F2 INSTALLATION SCALE: N.T.S.

, 6" MIN. TYPICAL CMU FOUNDATION HOLD-DOWN

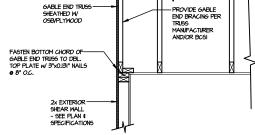
(CORNER SHOWN - APPLICABLE TO ALL CONDITIONS)

SCHEDULE ON PLAN) INTO CONCRETE OR 3,000 PSI GROUTED

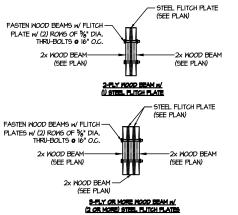
TYPICAL HOLD DOWN INSTALLATION
SCALE: N.T.S.



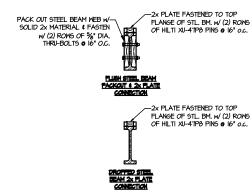
TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS
SCALE: 5/6/21/-07



TYPICAL GABLE END DETAIL



TYPICAL FLITCH BEAM CONNECTION DETAIL SCALE 944-91-0*



TYPICAL STEEL BEAM CONNECTION DETAIL SCALE SUPPLYOF

RIDGE ON 10 RAMING DETAILS MIDDLETON CAMPBELL

SD2.0

al: 3/4/25

126-24045

ssue date: 02-08-2

frawn by:

REVISIONS:

JTR

JAD

TH CAR TOFESSION

ENGINE

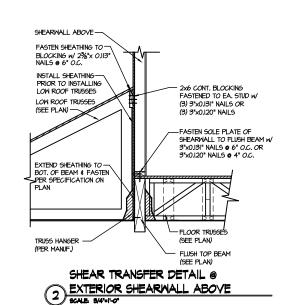
SEPH T. RIV

LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN ALL APPLICABLE AREAS. THESE

NUMBERED DETAILS ARE PLAN SPECIFIC AND ARE ONLY REQUIRED WHERE SPECIFICALLY INDICATED ("CUT") ON THE PLANS.

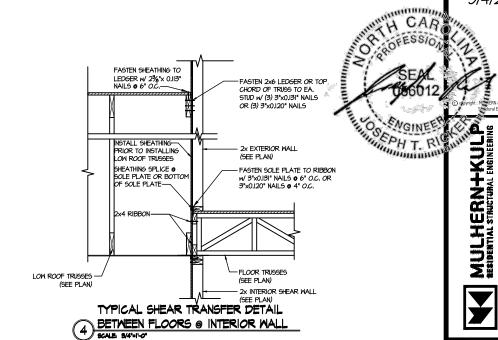
DETAILS ARE NOT "CUT" ON THE PLANS.

SHEAR TRANSFER DETAIL @ INTERIOR SHEAR WALL



FASTEN SHEATHING TO LEDGER W/ 23/6"x 0.113" | NAILS @ 6" O.C. - FASTEN 2x6 LEDGER OR TOP CHORD OF TRUGS TO TO EA. STUD w/ (3) 3"x0.131" NAILS OR (3) 3"x0.120" NAILS SHEARWALL ABOVE~ FASTEN SOLE PLATE TO FLUSH BEAM W/ 3"x0.131" NAILS • 6" O.C. OR 3"x0.120" NAILS • 4" O.C. NSTALL SHEATHING— PRIOR TO INSTALLING LOW ROOF TRUSSES -FLOOR TRUSSES (SEE PLAN) EXTEND SHEATHING TO BOT. OF BEAM & FASTEI PER SPECIFICATION ON LOW ROOF TRUSSES LVL/PSL/LSL FLUSH (SEE PLAN)

SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE



M&K project number: 126-24045

al: 3/4/25

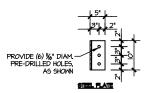
JTR JAD drawn by: ssue date: 02-08-2

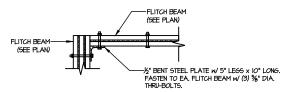
REVISIONS:

FRAMING DETAILS
CAMPBELL RIDGE
LOT 25 - MIDDLETON 10

SD2.1A

SHEAR TRANSFER DETAIL @ INTERIOR SHEAR WALL

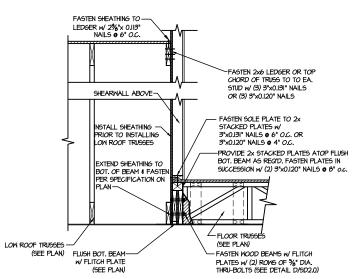




TYPICAL FLITCH BEAM TO FLITCH BEAM 4 CONNECTION DETAIL

SHEARWALL ABOVE -FASTEN SHEATHING TO-BLOCKING W/ 236"x O.113" NAILS @ 6" O.C. INSTALL SHEATHING PRIOR TO INSTALLING LOW ROOF TRUSSES - 2x6 CONT. BLOCKING FASTENED TO EA. STUD w/ (3) 3"x0.131" NAILS OR LOW ROOF TRUSSES (SEE PLAN) (3) 3"x0,120" NAILS - FASTEN SOLE PLATE TO 2x STACKED PLATES W/ 3"x0.131" NAILS @ 6" O.C. OR 3"x0.120" NAILS @ 4" O.C. -PROVIDE 2x STACKED PLATES ATOP FLUSH BOT. BEAM AS REQ'D. FASTEN PLATES IN EXTEND SHEATHING TO — BOT. OF BEAM & FASTEN PER SPECIFICATION ON PLAN SUCCESSION w/ (2) 3"x0.120" NAILS @ 8" o.c. TRUSS HANGER (PER MANUF.) FLOOR TRUSSES (SEE PLAN) FLUSH BOT. BEAM-w/ FLITCH PLATE (SEE PLAN) - FASTEN WOOD BEAMS W/ FLITCH PLATES W/ (2) ROWS OF 5/8" DIA. THRU-BOLTS (SEE DETAIL D/SD2.0)

SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE



SHEAR TRANSFER DETAIL @ 3 EXTERIOR SHEARWALL ABOVE

TH CAR PROFESSION 100 FASTEN SHEATHING TO -FASTEN 2x6 LEDGER OR TOP CHORD OF TRUSS TO EA. STUD W (3) 3*X0.13*** NAILS LEDGER W/ 2%"x 0.113" NAILS @ 6" O.C. OR (3) 3"x0.120" NAILS NSTALL SHEATHING— PRIOR TO INSTALLING - 2x exteri*o*r wall (See Plan) SEPH T. RIG LOW ROOF TRUSSES SHEATHING SPLICE @ FASTEN SOLE PLATE TO RIBBON SOLE PLATE OR BOTTO OF SOLE PLATE w/ 3"x0.131" NAILS @ 6" O.C. OR 3"x0.120" NAILS @ 4" O.C. LOW ROOF TRUSSES (SEE PLAN) (SEE PLAN) - 2x INTERIOR SHEAR WALL TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL
SCALE 9/4'-1'-Q"

1&K project number:

FRAMING DETAILS CAMPBELL RIDGE LOT 25 - MIDDLETON 10 SD2.1B

al: 3/4/25

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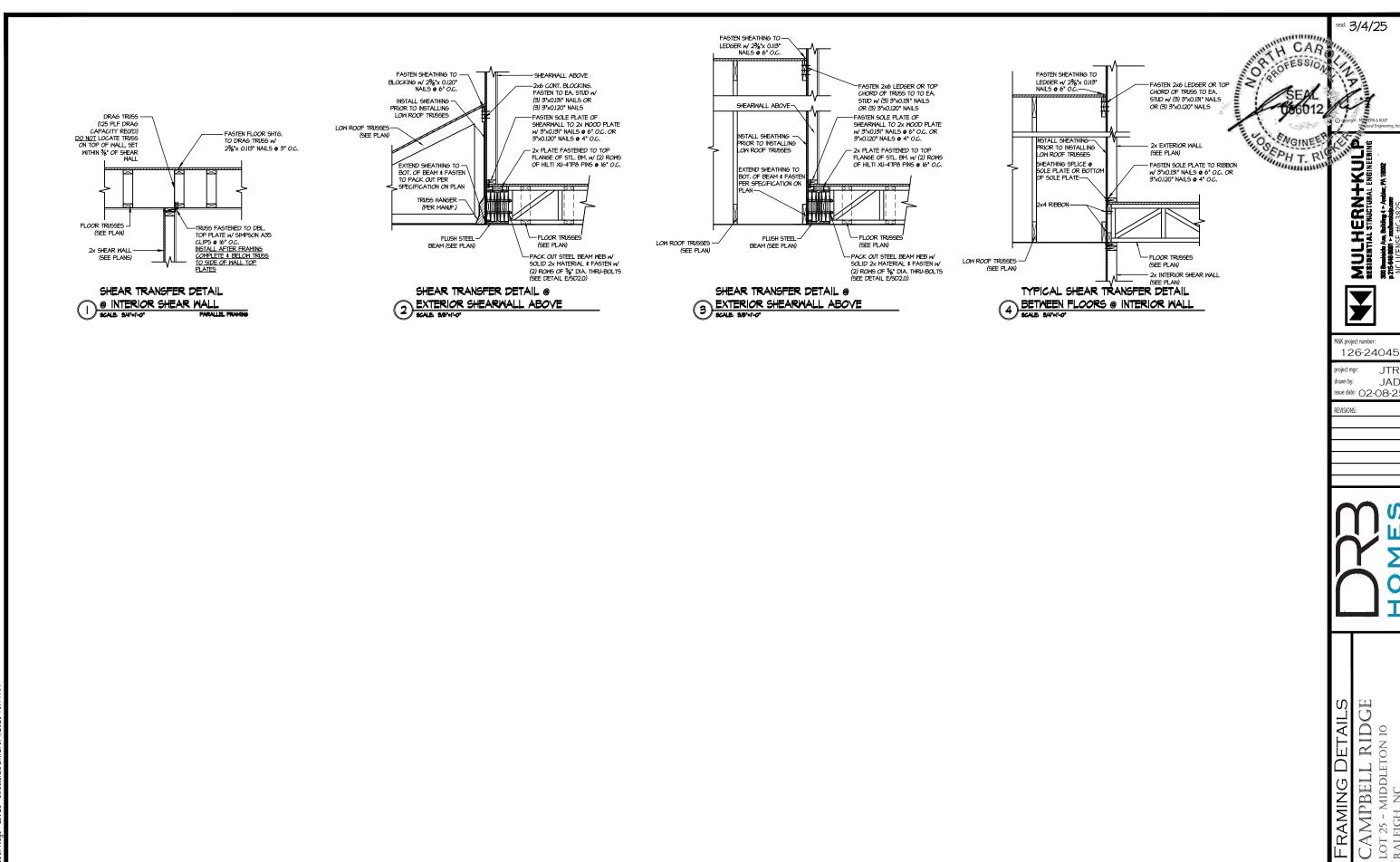
126-24045

frawn by:

REVISIONS:

JTR

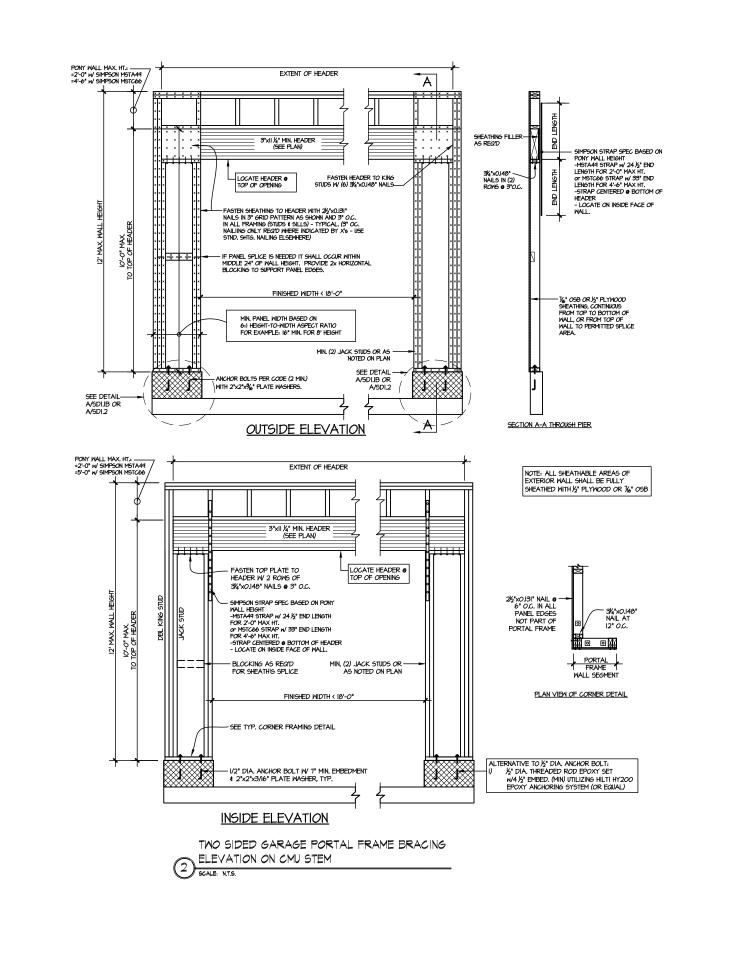
JAD ssue date: 02-08-2



JTR

JAD

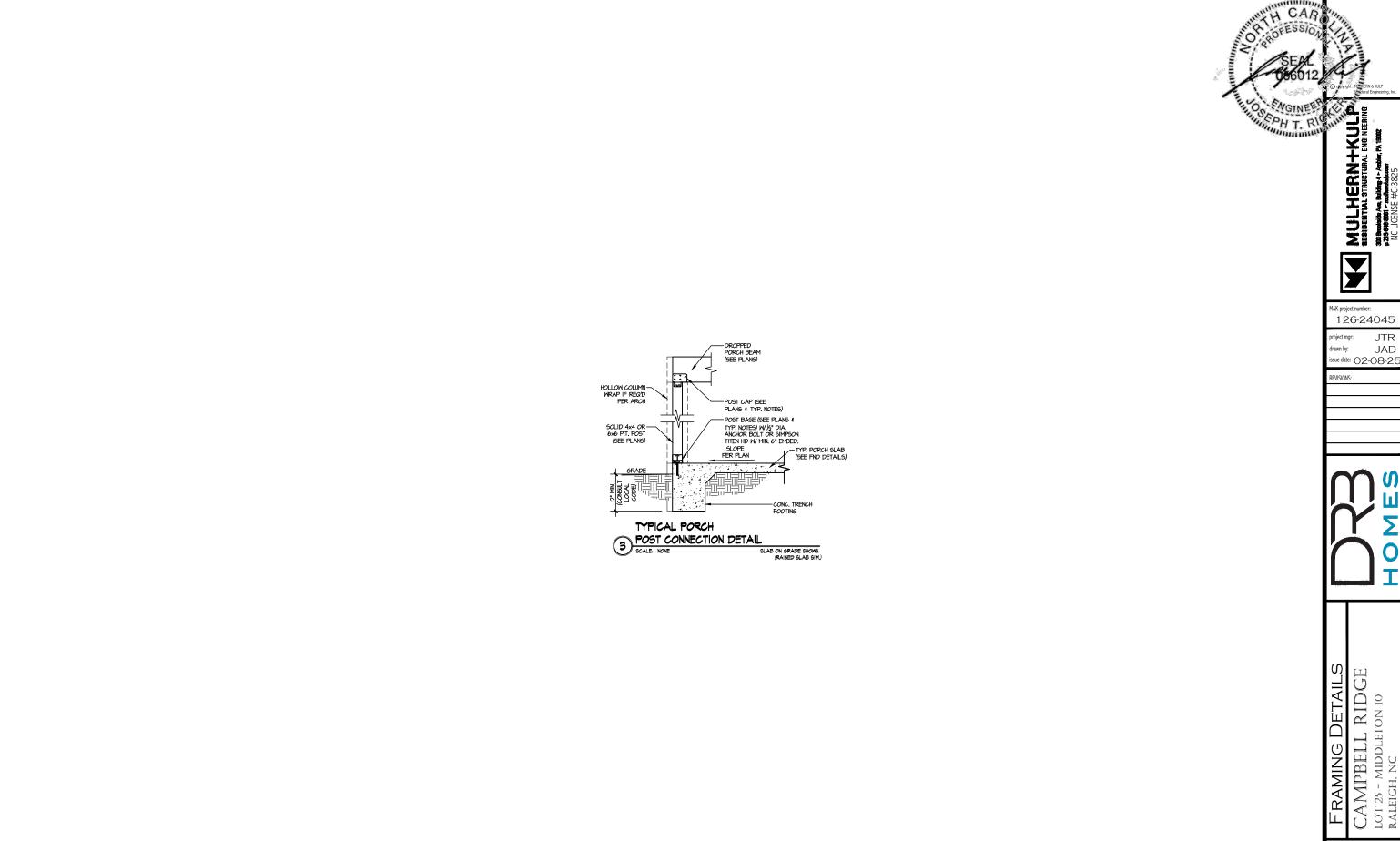
SD2.1C



al: 3/4/25 TO A OFESO ON ENGINEER MULHERN+KUL RESIDENTIAL STRUCTURAL ENGINEERIN Y M&K project number: 126-24045 JTR JAD drawn by: issue date: 02-08-25 REVISIONS: CAMPBELL RIDGE LOT 25 - MIDDLETON 10

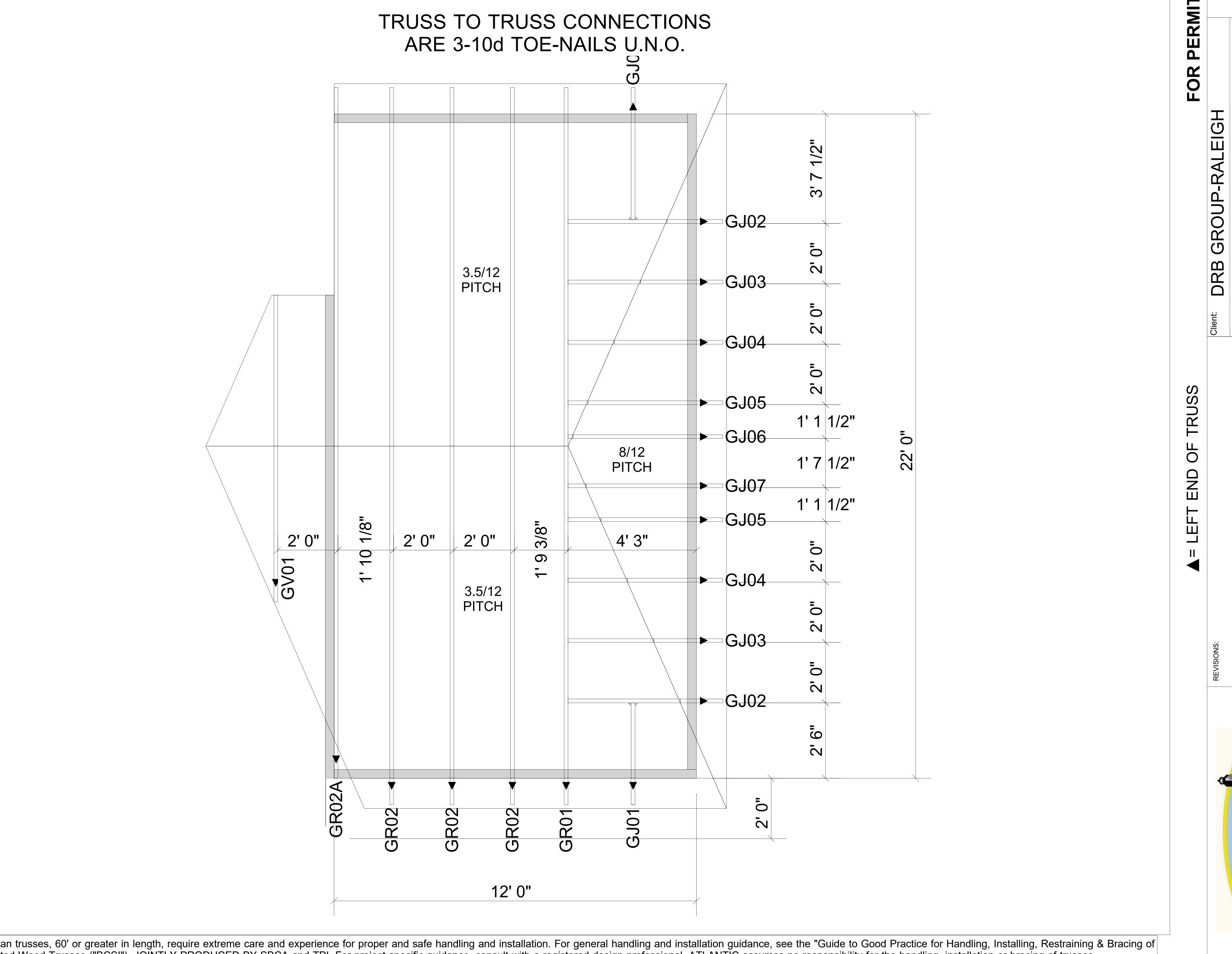
FRAMING DETAILS

SD2.2



seal: 3/4/25

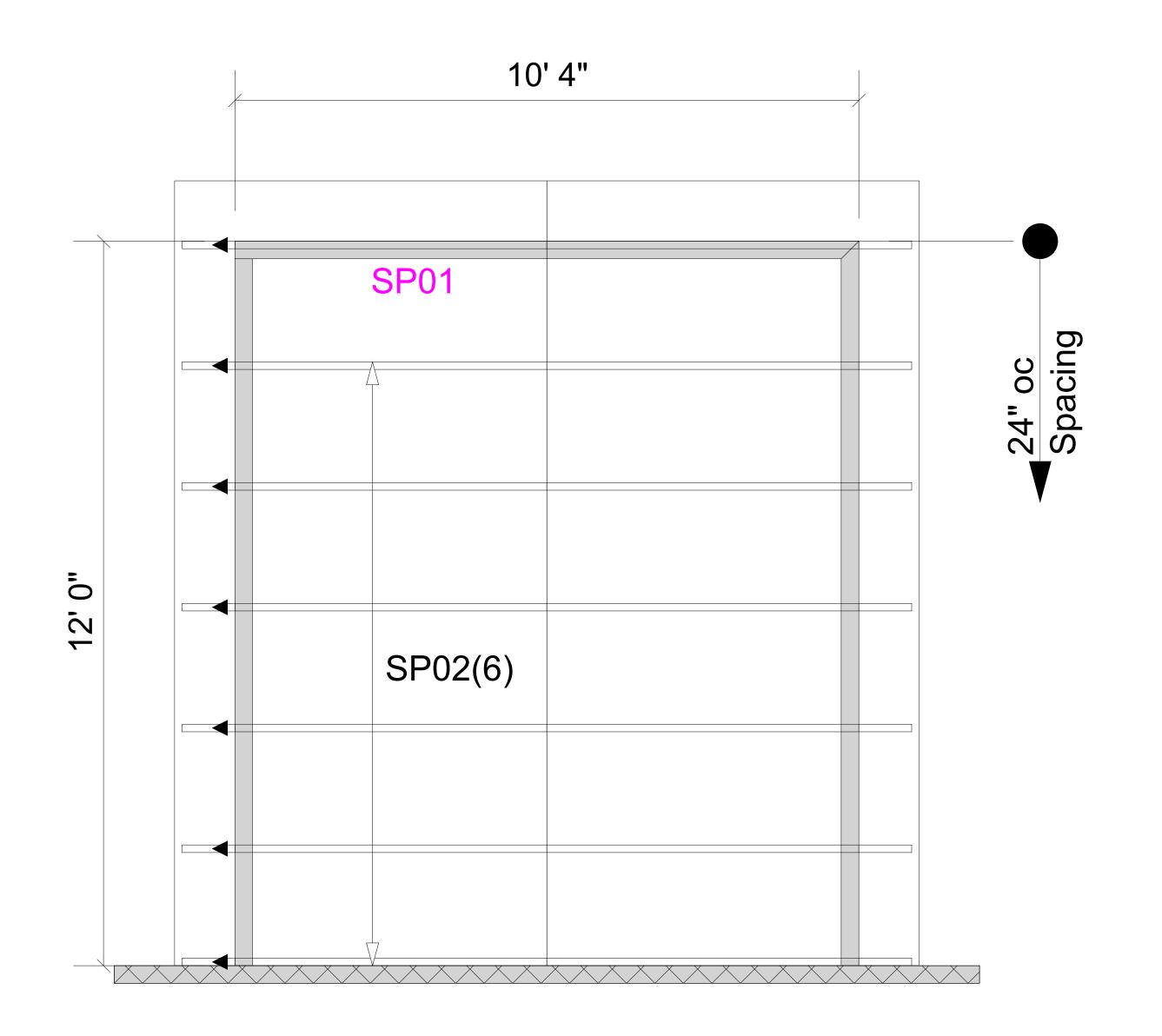
SD3.0



ROOF FOR PERMIT 0.0025 DRB NOT TO SCALE

Drawn By:



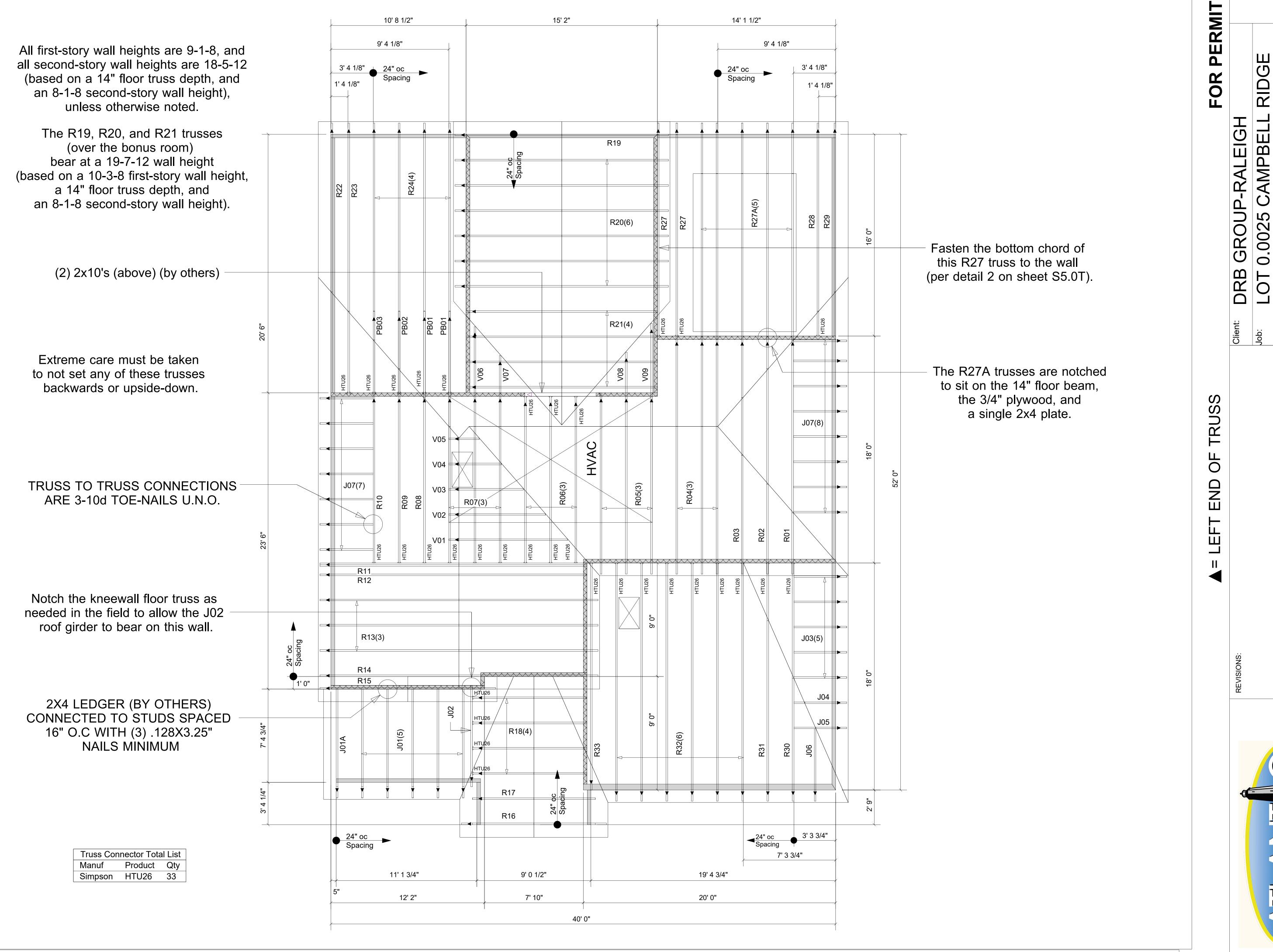


ROOF FOR PERMIT Date: 02/21/25
Job #: Sales Rep: KYLE GIBSON 25-1836-R01 Phone: DRB GROUP-RALEIGH LOT 0.0025 CAMPBELL MIDDLETON-10 NOT TO SCALE

Drawn By: END OF TRUSS LEFT



WARNING! Long span trusses, 60' or greater in length, require extreme care and experience for proper and safe handling and installation. For general 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.



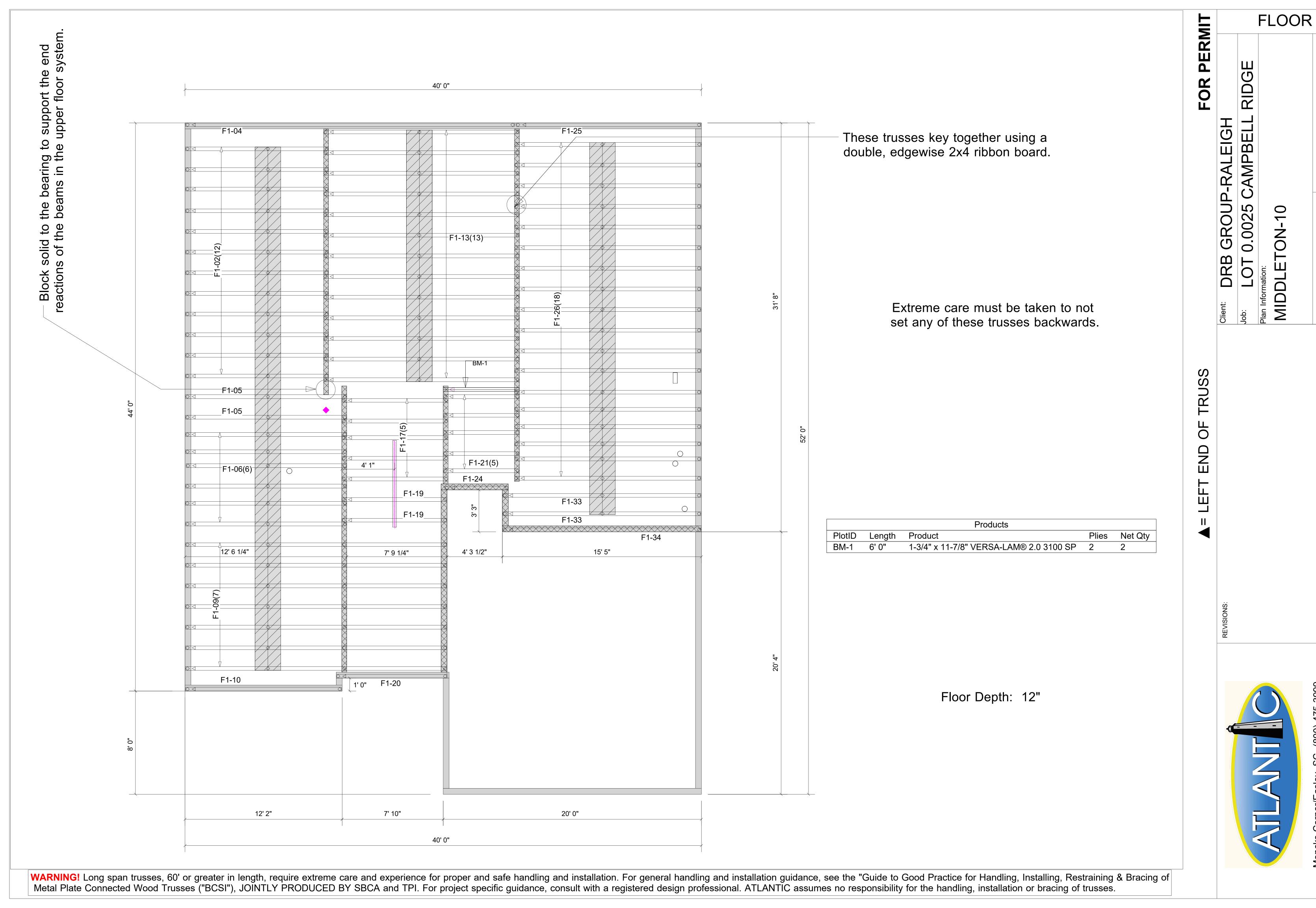
ROOF

0.0025

NOT TO SCALE

Drawn By:

WARNING! Long span trusses, 60' or greater in length, require extreme care and experience for proper 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.



NOT TO SCALE

Drawn By:

Corner/Easley, SC (800) 475-3999 Sparta, NC (336) 372-2226