# COOPER 3-RALE

RALEIGH - LOT 00.0025 THE FARM AT NEILL'S CREEK

(MODEL# 1777)

ELEVATION 9 - GR



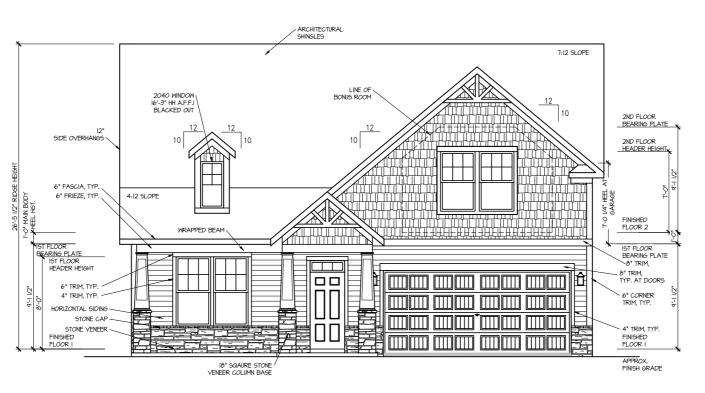
<u>INDEX</u>



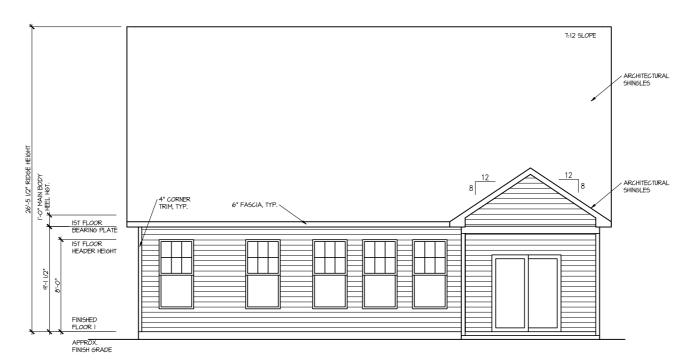
FIRST FLOOR         1777 SF           GARAGE         394 SF           FRONT PORCH - ELEVATION 9         182 SF           OPTIONS         182 SF	OVERED
FIRST FLOOR         1777 SF           GARAGE         394 SF           FRONT PORCH - ELEVATION 9         182 SF           OPTIONS         182 SF	OVERED
GARAGE 394 SF FRONT PORCH — ELEVATION 9 182 SF  OPTIONS	
FRONT PORCH - ELEVATION 9 182 SF  OPTIONS	
OPTIONS	
BONUS ROOM 430 SF	
COVERED PORCH 120 SF	
BEDROOM 4 168 SF	
TOTAL 2375 SF 696 SF	

# 270 Peach Grove Way

LOT	SPECIFIC	
		THE FARM AT NEILL'S CREEK
'	LU1 00.0025	COOPER 3 REV. RALE 4 ELEVATION 9
2	ADDRESS	270 PEACH GROVE WAY LILLINGTON, NC 27546
	ADDICESS	270 TEACH GROVE WAT EILENGTON, NO 27340



FRONT ELEVATION 9



REAR ELEVATION 9

MASTER PLAN INFORMATION

REVISION DATE

4-RALE 02-24-2022 02-19-2025

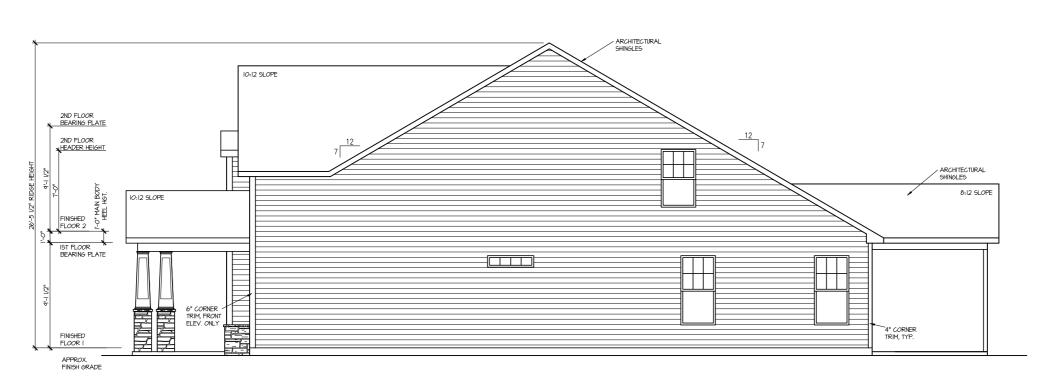
DATE: 06/25/2025
PLAN NO. 1777



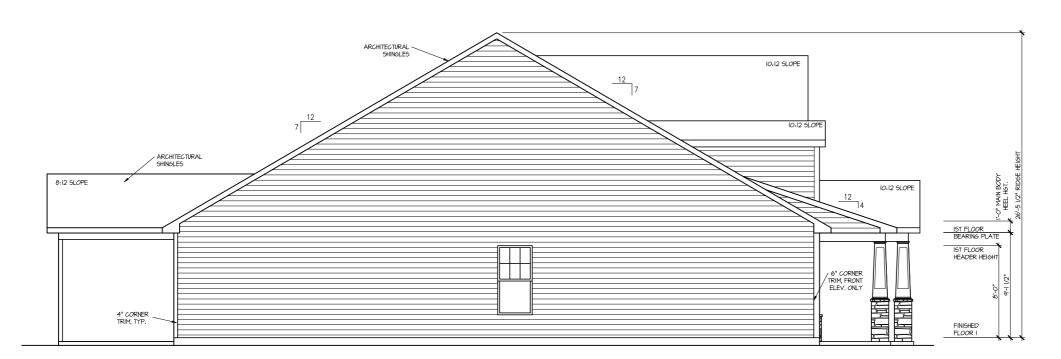
HOUSE NAME:
COOPER 3
DRAWING TITLE
FRONT & REAR ELEYATIONS

SHEET No.

ot 00.0025.dwg DATE: 6/25/2025 10:04 AN



# RIGHT ELEVATION 9



LEFT ELEVATION 9

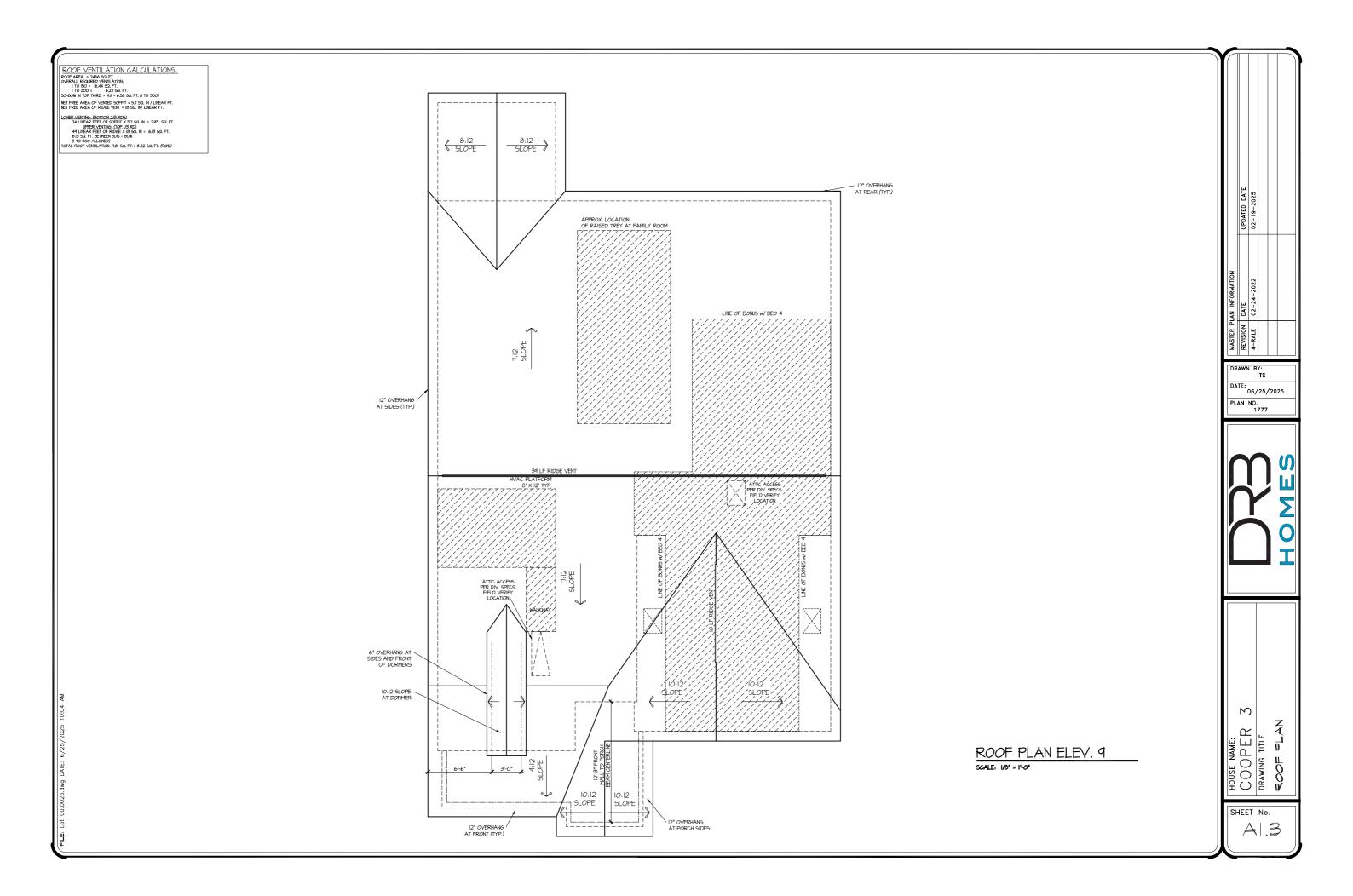
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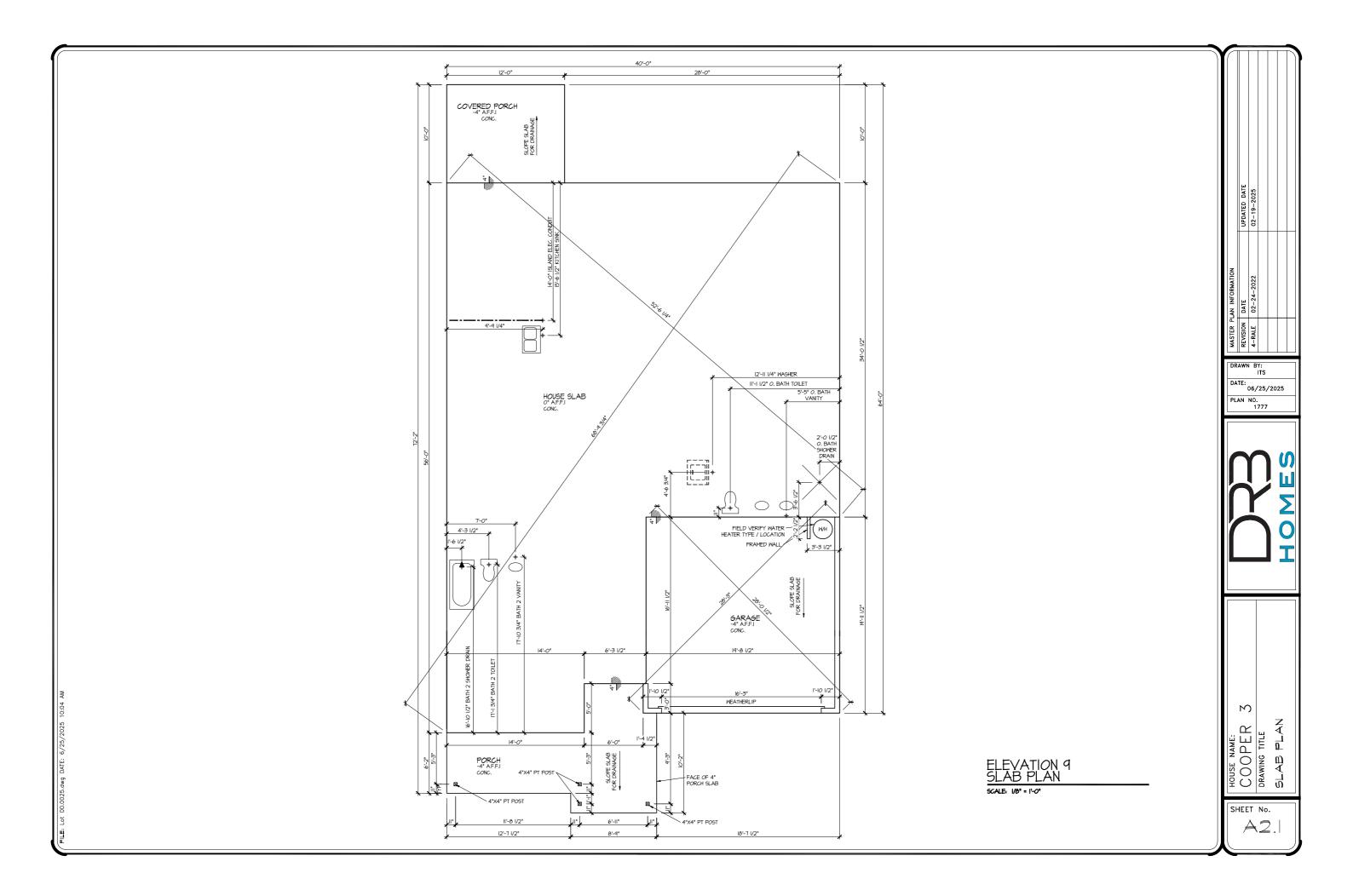
DRAWN BY: ITS DATE: 06/25/2025 PLAN NO. 1777

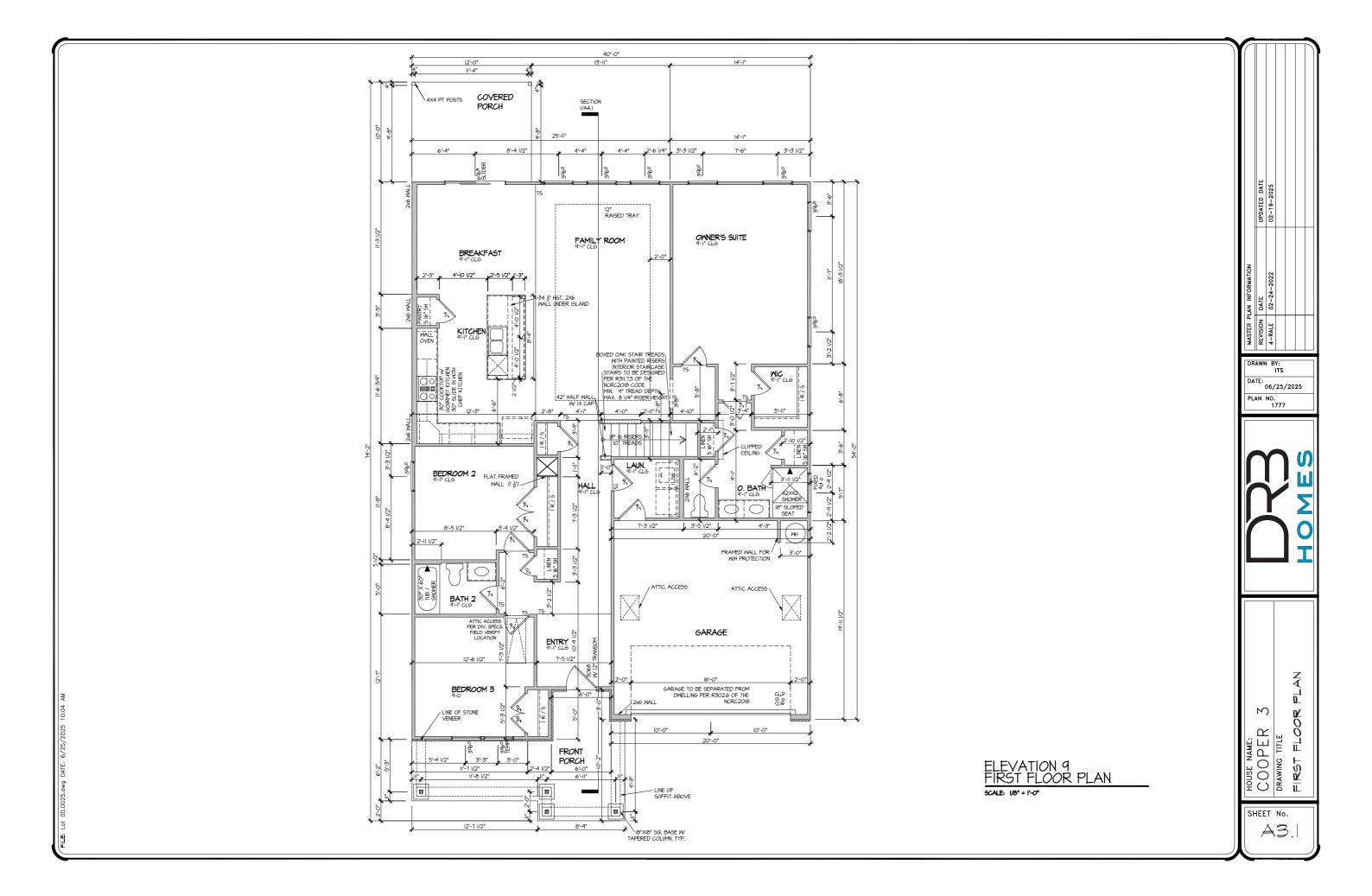


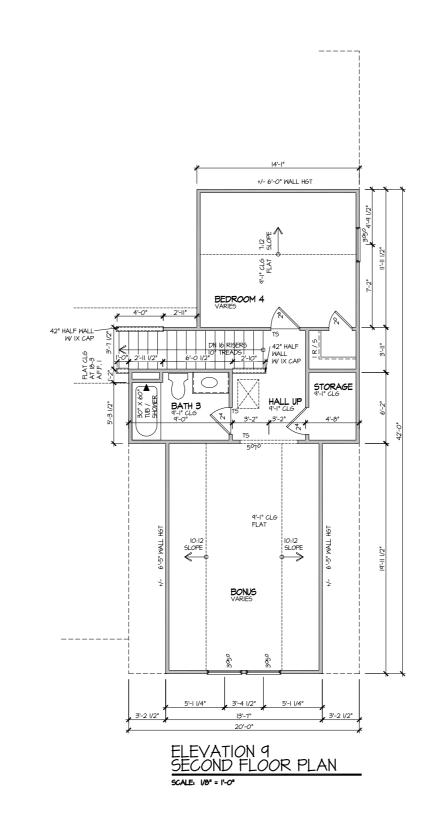
HOUSE NAME:
COOPER 3
DRAWING TITLE
RIGHT & LEFT ELEVATIONS

SHEET No.









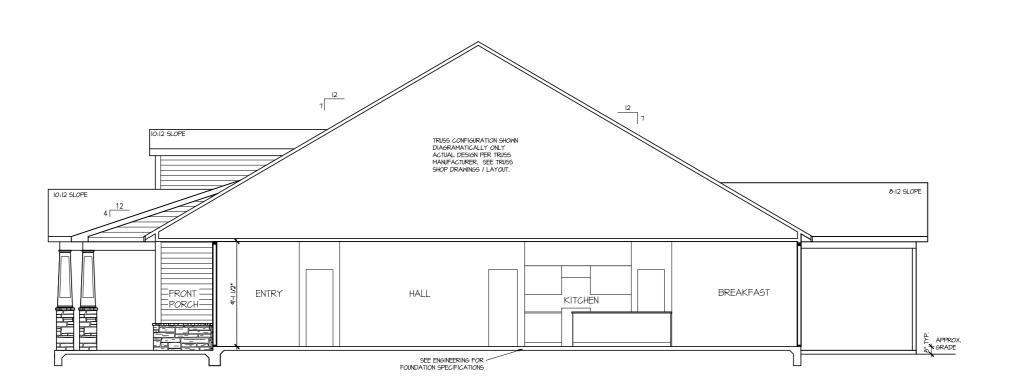
DRAWN BY: DATE: 06/25/2025 PLAN NO. 1777



HOUSE NAME:
COOPER
DRAWING TITLE
SECOND FLG

SHEET No.

A3.2



SECTION 1

MASTER PLAN INFORMATION

HEVISION DATE

4-RALE 02-24-2022 02-19-2025

DRAWN BY:
ITS

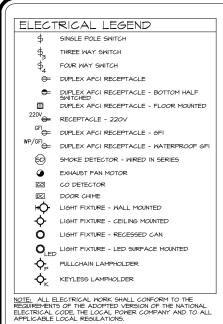
DATE:
06/25/2025

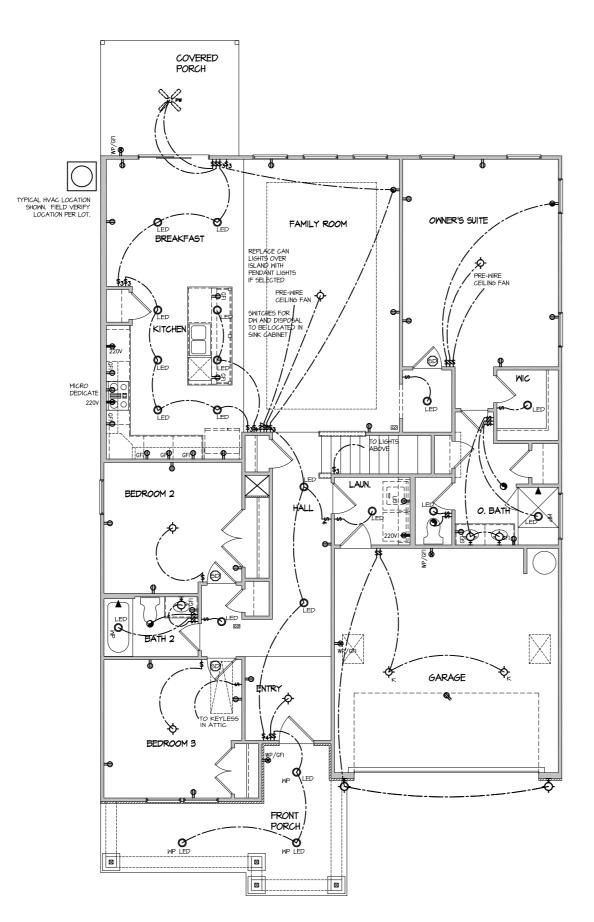
PLAN NO.
1777



HOUSE NAME:
COOPER 3
DRAWING TITLE
BUILDING SECTION

SHEET No.





| MASTER PLAN INFORMATION | UPDATED DATE | REVISION | DATE | 02-24-2022 | 02-19-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025 | 1-2025

DRAWN BY: ITS DATE: 06/25/2025 PLAN NO. 1777



HOUSE NAME:
COOPER 3
DRAWING TILE
FIRST FLOOR ELECTRICAL

SHEET NO

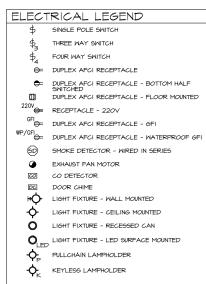
ELECTRICAL PLAN FIRST FLOOR - ELEV. 9

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

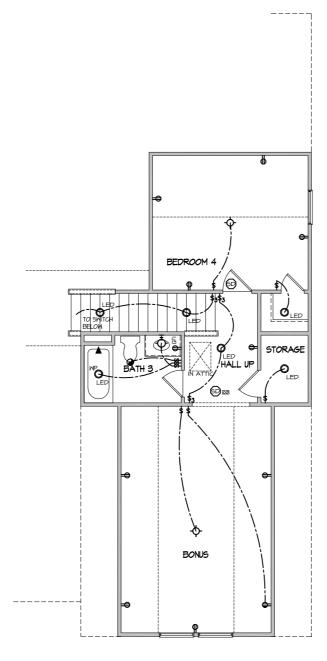
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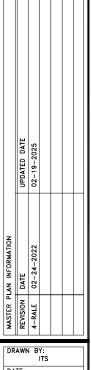
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NOTE: ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, THE LOCAL POWER COMPANY AND TO ALL APPLICABLE LOCAL REGULATIONS.



ELECTRICAL PLAN SECOND FLOOR - ELEV. 9 SCALE: 1/8" = 1'-0"

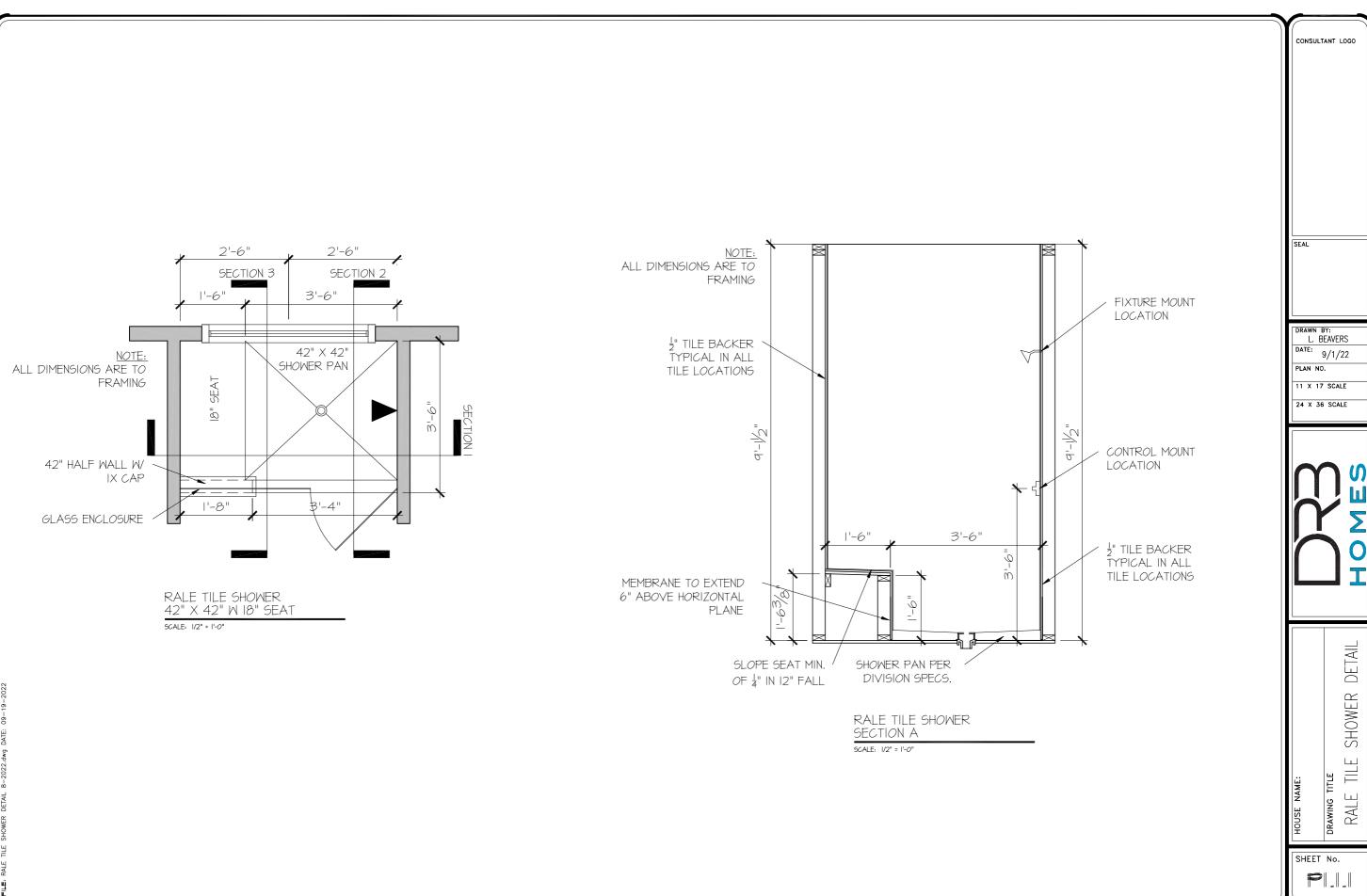


DRAWN BY: ITS DATE: 06/25/2025 PLAN NO. 1777



HOUSE NAME:
COOPER 3
DRAWING TITLE
SECOND FLOOR ELECTRICAL

SHEET No.





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

11 X 17 SCALE 24 X 36 SCALE



DETAIL SHOWER

RALE

DRAWING TITLE
RALE TILE

SHEET No.

PI.I.2

GLASS ENCLOSURE <u>-</u>P 42" HGT. HALF WALL W/ IX CAP BEYOND I" TILE BACKER V / LINE OF SEAT TYPICAL IN ALL BEYOND TILE LOCATIONS MEMBRANE TO EXTEND OVER CURB / MEMBRANE TO EXTEND (2) 2X4 PT CURB 6" ABOVE HORIZONTAL PLANE SHOWER PAN PER 3'-6" DIVISION SPECS. RALE TILE SHOWER

SECTION C

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

LINE OF TILE

TO CLG.

LINE OF TILE TO CLG. FIXTURE MOUNT LOCATION GLASS ENCLOSURE CONTROL MOUNT LOCATION "B-19 1 TILE BACKER TYPICAL IN ALL TILE LOCATIONS MEMBRANE TO EXTEND OVER CURB MEMBRANE TO EXTEND (2) 2X4 PT CURB 3'-6"

RALE TILE SHOWER SECTION B

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

6" ABOVE HORIZONTAL

SHOWER PAN PER

DIVISION SPECS.

PLANE

#### 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 2x SILL PLATES TO FND WITH A MINIMUM OF 2 ANCHORS
- PER PLATE, 12" MAX. FROM PLATE ENDS UTILIZING:
   1/2" 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 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 ACI 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 leg 000,06
- BASEMENT FOUNDATION WALL DESIGN BASED ON
- 9' OR 10' 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 10" CONCRETE DEPTH OVER OPENING OR (3)2x10 w/ (2)2x6 JACK STUDS, U.N.C
- \* LARGER OPENINGS SHALL BE PER PLAN. ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS
- HAN 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 WINTS 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'-O" OC. (MAXIMIM)
- JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (I-1 RATIO) WITH A MAXIMUM OF I-15 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 2x6 (MIN.) x 16" LONG P.T. PLATE ON TOP OF ALL CRAWL SPACE PIERS. ALL PIERS SHALL BE FASTENED PER ANCHORAGE SPECIFICATIONS NOTED ABOVE. TOP 2 COURSES (MIN.) OF PIER TO BE GROUTED SOLID (8 COURSE MAX. PIER HEIGHT).
- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRAWL SPACE WALLS, FASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE. TOP 2 COURSES (MIN.) OF WALL TO BE GROUTED SOLID (8 COURSE MAX, WALL HEIGHT)
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY.
- 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

#### GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
- WOOD FRAME ENGINEERING IS BASED ON NOS. "NATIONAL DESIGN

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

LOAD DURATION FACTOR = 1.25

LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = IO 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

#### 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 REQUIREMEN FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- REFER TO FASTENING SCHEDULE TABLE R602.3(1) FOR ALL CONNECTIONS, TYP, U.N.O.
- 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 BE SPRUCE-PINE-FIR #2 (SPF) OR SOUTHERN PINE #2 (SYP) LUMBER, OR BETTER (KILN-DRIED). ALL HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED OADS & SIZED ACCORDINGLY, CODE TABLES HAVE NOT BEEN USED.
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED MITH 2x 'STUD' GRADE MEMBERS SPACED @ 16" O.C. (MAX., U.N.O.)

  • HEADERS IN NON-LOAD BEARING WALLS SHALL BE:
- (I)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:
- 'L9L' Fb=2325 psl; Fv=3I0 psl; E=1.55xI0^6 psl 'LVL' Fb=2600 psl; Fv=285 psl; E=2.0xI0^6 psl
- 'PSL' FB=2900 PSI; FV=290 PSI; E=2.0XIO^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 INSTALL ATION.
- 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"x31/2" SIMPSON SDS SCREWS (OR 31/4" TRUSSLOK SCREWS) @ 16" O/C. USE 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 ½" OR 5 ½" BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 & 2x8
- 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 SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTH 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 T" 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.I3I" 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 1/2" DIA. BOLTS • 48" O.C. STAGGERED.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BC52-2/4 CAP & ABW44Z BASE, U.N.O.

#### FLOOR FRAMING

- \* I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUE, 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 1 × 0.131 NAILS @ 6"0.c. @ PANEL EDGES & @ 12"0.c. FIELD.
- 2 3 × 0.120" NAILS @ 4" O.C. @ PANEL EDGES \$ @ 8" O.C. FIELD. 2 👸 × 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 FACH POOF TRIES TO TOP PLATE W/ SIMPSON H25T 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.C
- \* ERECT AND INSTALL ROOF TRUSSES PER WICA & TPI'S BCSLI-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/
  - RIM BOARD W/ (2) 3"x0 131" NAILS @ 16" OC MAX (1-1015TS - 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" × 0.131" NAILS @ 6"o.c. @ PANEL EDGES \$ @ 12" O.C. FIELD. -w/2 🖁 x 0.120" NAILS @ 4"o.c. @ PANEL EDGES \$ @ 8" O.C. FIELD.
- W/ 2 🖥 x 0.113" NAILS @ 3"O.C. @ PANEL EDGES \$ @ 6" O.C. FIELD.

#### HOLD-DOWN SCHEDULE

SYMBOL .	SPECIFICATION			
► HD-I	SIMPSON HTT4 HOLD-DOWN * (%" DIA. ANCHOR)			
► HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM UN.O.) -OR- MSTC66B3 ALTERNATE			
► HD-3	SIMPSON STHD14/STHD14RJ			

SLAB (I.E. THICKENED SLABS, FOOTINGS) CONDITIONS. MINIMUM 24" MIN. OOTING THICKNESS REQUIRED.

EPOXY-SET ALTERNATE FOR MONOSLAB & INTERIOR RAISED SLAB THREADED ROD INTO CONCRETE FOUNDATION, PROVIDE IO" (FOR 5/8" DIA.) OR 5" (FOR 1/8" DIA.) MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUE. INSTRUCTIONS, MINIMUM 16" FOOTING THICKNESS REQ'D.

DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF CONCRETE.

#### LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: 20 MPH WIND IN 2018 NCSBC:RC

(120 MPH WIND SPEED IN ASCE 7-10 WIND MAP, PER IRC R301.211) 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 CCORDINGLY, 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 NGSBG:RG SECTION R802.II.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

- 1/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 % "XO.II3" NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE PANEL FIELD. TYP, UN.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" 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 (%" CROWN) @ 3" O.C. AT EDGES \$ @ 6" O.C IN FIELD, ALL SHEATHING PANELS SHALL BE DRIENTED 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 SHEARWALL
  - INDICATES HOLDOWN BELOW

#### 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/FLUSI BEAMS DO NOT EXCEED THE FOLLOWING:

- 1/4" 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" DEAL LOAD. (NOT DIFFERENTIAL DEFLECTION)

#### ENGINEERED BEAM MATERIAL SCHEDULE

BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)1¾"x11%" - F	3½"xll%" - F	(3)1¾"x11%" - F	(2)2xl2 + (1) %"xll4" STEEL FLITCH PLATES - F	WI2xI4 - F
002	(3)134"x1136" - F	5¼"xII%" - F	(4)1¾"x11%" - F	(2)2xl2 + (1) %"xll4" STEEL FLITCH PLATES - F	WI2xI4 - F
003	(2)1¾"x11%" - F	3½"xll%" - F	(3)1¾"x11%" - F	(2)2xl2 + (1) %"xl以" STEEL FLITCH PLATES - F	WI2xI4 - F
004	(2)194"x11 ½" - D	3½"x   ∤" - D	(2)1¾"x11%" - D	(2)2xi0 + (1) 3/2xil/4" Steel Flitch Plates - D	MBXIO - D

- 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/502.0 FOR TYPICAL FLITCH BEAM CONNECTIONS
  REFER TO DETAIL E/502.0 FOR TYPICAL STEEL BEAM CONNECTIONS
  FOR FLUSH TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN PLATES IN SICCESSION W/ (2) 3"XO 120" NAILS & 8" OC.
- FOR FLUSH BOTTOM BEAMS PROVIDE 2x STACKED PLATES ATOP BEAM AS REQ'D. FASTEN

#### LEGEND

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

- INTERIOR BEARING WALL
- □□□□□ BEARING WALL ABOVE
- ---- BEAM / HEADER
- = = INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- II 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)2×4
JP TO 8'-0"	(2)2x6	(3)2x6
IP TO 12'-0"	(2)2x8	(3)2v8

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

#### ALTERNATE F.J MANUFACTURERS

FLOOR JOISTS BY MANUFACTURER'S OTHER THAN THOSE SHOWN ON PLAN SHALL CONFORM TO THE APA PERFORMANCE RELATED I-JOISTS DESIGN AND CONSTRUCTION GUIDE, MINIMUM JOIST PROPERTIES INCLUDING, BUT NOT LIMITED TO, ALLOWABLE SHEAR, ALLOWABLE MOMENT, STRENGTH, AND STIFFNESS, SHALL MEET OR EXCEED THOSE LISTED FOR THE PRI-60 SERIES I-JOISTS, ALL ALLOWABLE HOLES, BEARING STIFFENERS, AND JOIST TO JOIST CONNECTIONS ARE PER THE JOIST MANUFACTURER.

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1&K project numbe 126-22076

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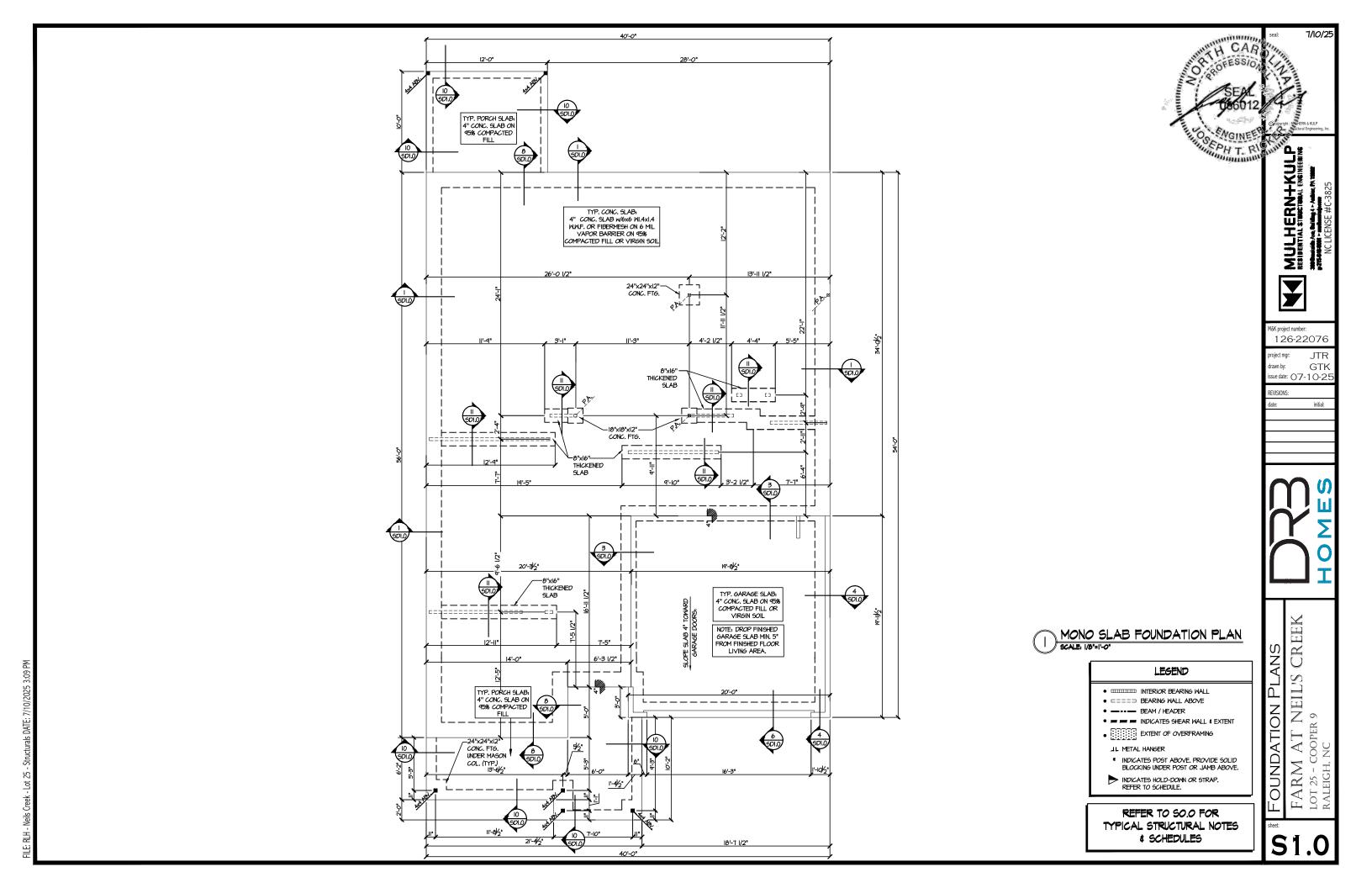
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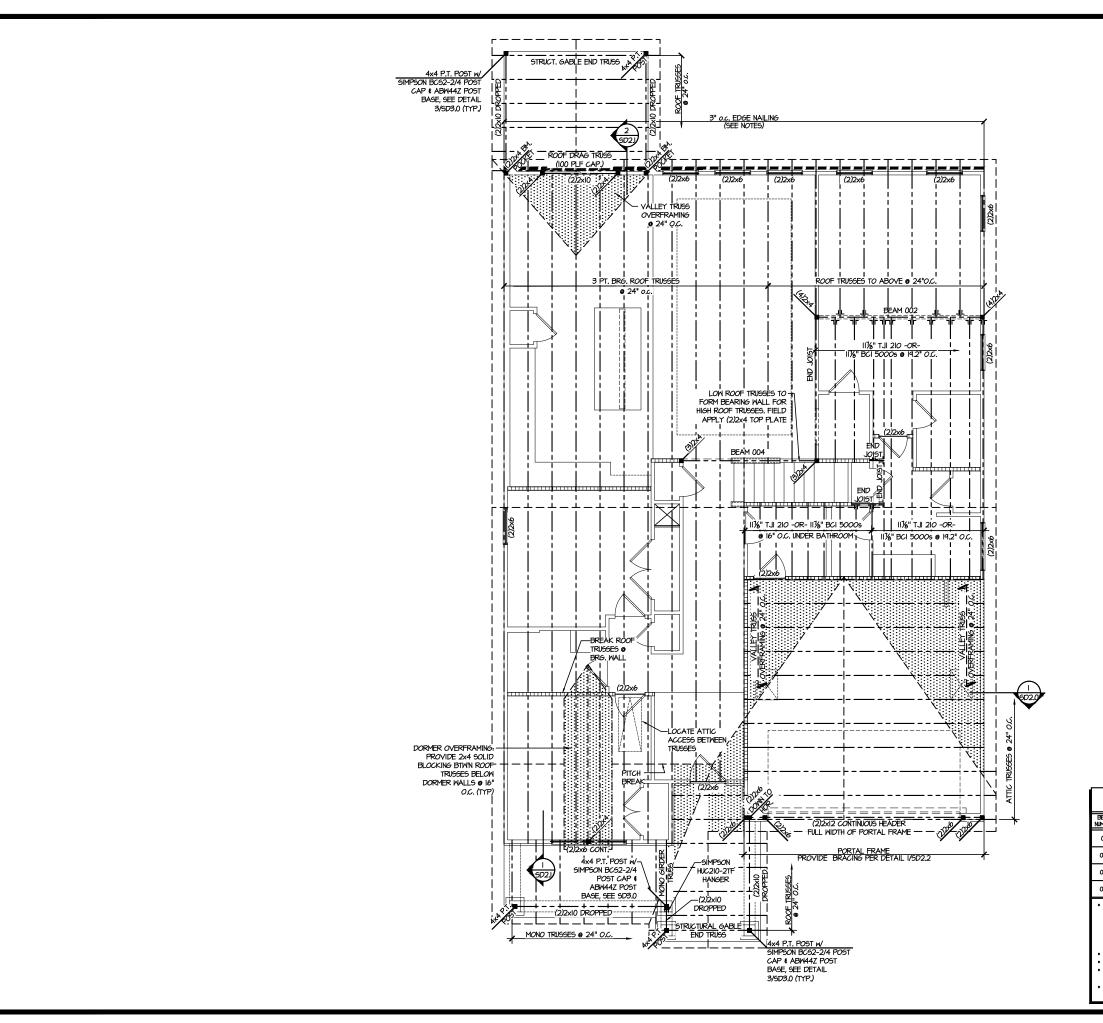
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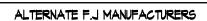


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FLOOR JOISTS BY MANUFACTURER'S OTHER THAN THOSE SHOWN ON PLAN SHALL CONFORM TO THE APA PERFORMANCE RELATED I-JOISTS DESIGN AND CONSTRUCTION GUIDE. MINIMUM JOIST PROPERTIES INCLUDING, BUT NOT LIMITED TO, ALLOWABLE SHEAR, ALLOWABLE MOMENT, STRENGTH, AND STIFFNESS, SHALL MEET OR EXCEED THOSE LISTED FOR THE PRI-60 SERIES I-JOISTS, ALL ALLOWABLE HOLES, BEARING STIFFENERS, AND JOIST TO JOIST CONNECTIONS ARE PER THE JOIST MANUFACTURER.

## 2ND FLOOR/LOW ROOF FRAMING PLAN

#### 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

#### ENGINEERED BEAM MATERIAL SCHEDULE

ı						
	BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
	001	(2)134"x1136" - F	3½"xll⅓" - F	(3)1¾"x11%" - F	(2)2xl2 + (1) %"xl以" STEEL FLITCH PLATES - F	WI2xI4 - F
	002	(3)1¾"×11¾" - F	5¼"xII%" - F	(4)1¾"x11%" - F	(2)2xl2 + (1) %"xll4" STEEL FLITCH PLATES - F	WI2xI4 - F
	003	(2)134"x1136" - F	3½"xll%" - F	(3)1¾"x11%" - F	(2)2xl2 + (1) %"xll4" STEEL FLITCH PLATES - F	WI2xI4 - F
	004	(2)19¼"x 1 ¼" - D	3½"xII ‡" - D	(2)13/4"x11%" - D	(2)2xl0 + (1) %"xl以" STEEL FLITCH PLATES - D	MBXIO - D

- BEAM NOTATION:

   "F" INDICATES FLUSH BEAM

   "FT" INDICATES FLUSH TOP BEAM

   "FB" INDICATES FLUSH BOTTOM BEAM

   "D" INDICATES FLUSH BOTTOM BEAM

   "IN" INDICATES DROPPED DEAM

   "H" INDICATES DROPPED OPENING HEADER
- REFER TO DETAIL D'ESQU' 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"X0.120" NAILS @ 0" 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

7/10/2

MULHERN+KULP RESIDENTIAL STRUCTURE INC.

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N&K project number: 126-22076

REVISIONS:

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GTK

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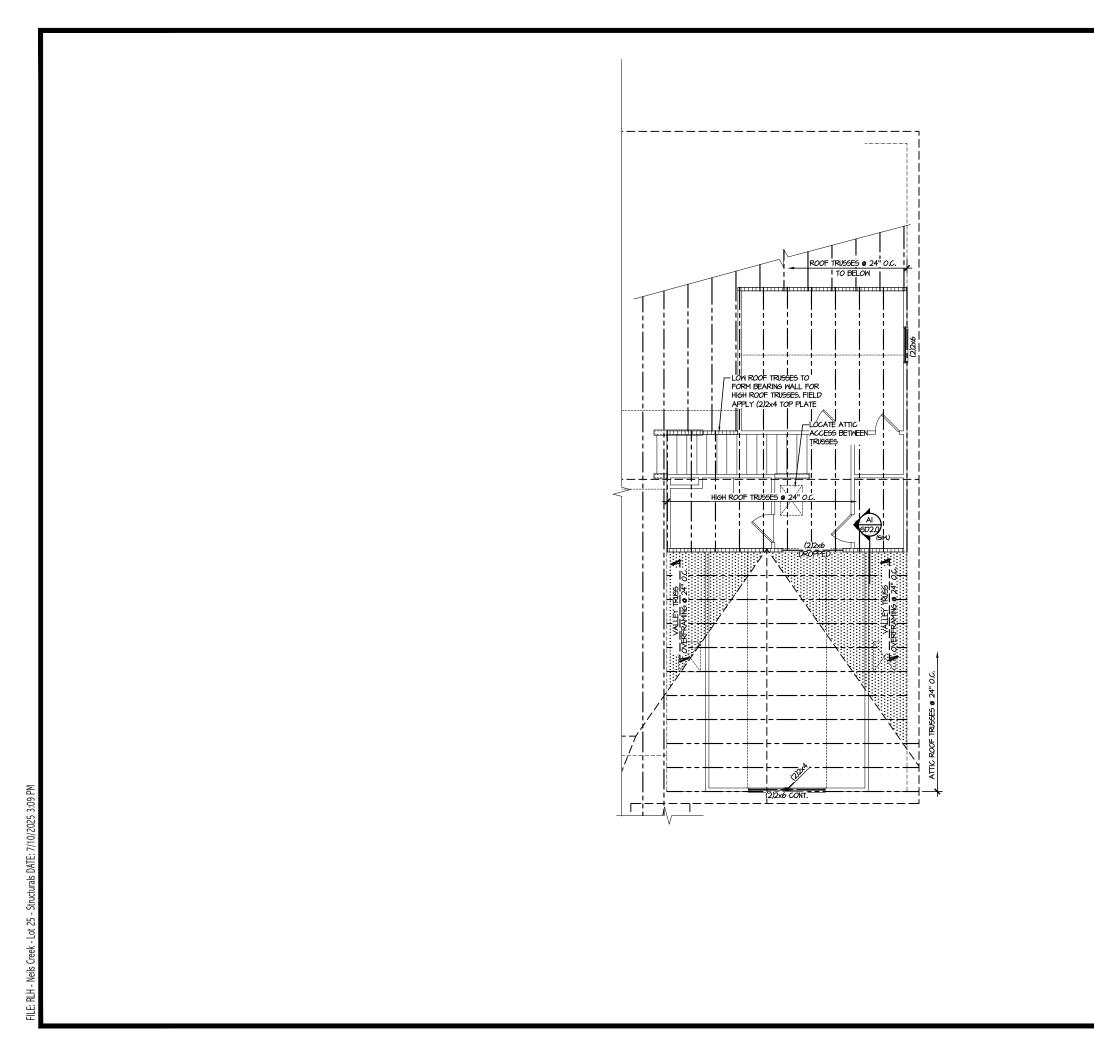
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FARM LOT

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MULHERN+KULP Y

M&K project number: 126-22076

JTR drawn by: GTK issue date: 07-10-25

REVISIONS:

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

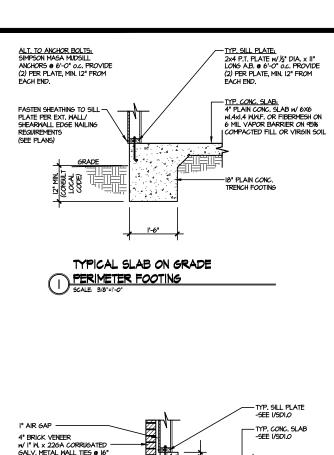
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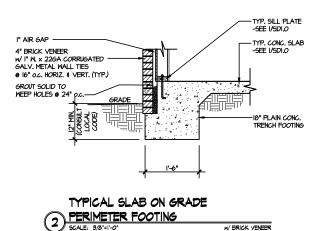
- INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- --- BEAM / HEADER
- = = INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- \* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

FARM AT NEIL'S CREEK Lot 25 - cooper 9 raleigh, nc ROOF FRAMING PLANS

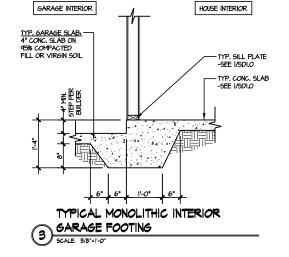
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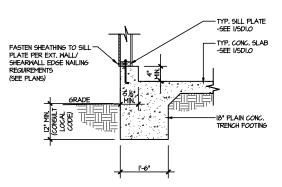




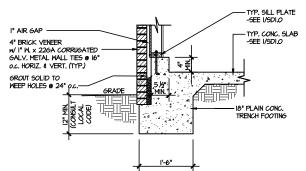
SCALE: 3/8"=1"-0"

w/ BRICK VENEER

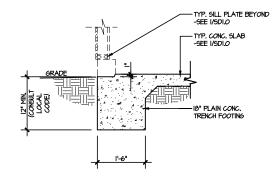




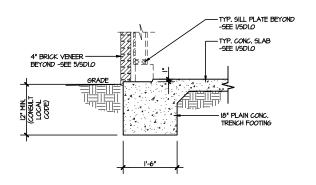




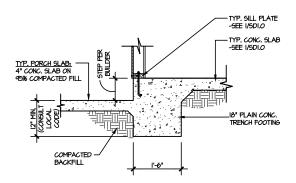




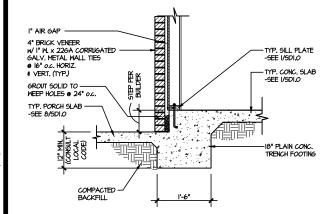




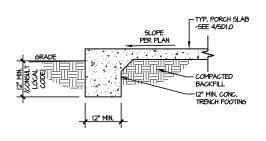
TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING



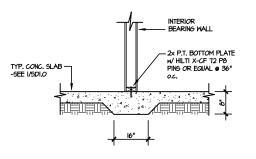
TYPICAL SLAB ON GRADE PERIMETER B FOOTING @ PORCH/PATIO



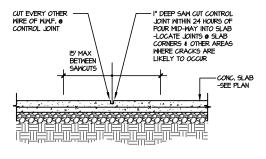
TYPICAL SLAB ON GRADE PERIMETER POOTING @ PORCH/PATIO



TYPICAL FOOTING @ PORCH SLAB



TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL





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

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

oundation Detail NEIL'S AT FARM LOT

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M&K project number 126-22076

ssue date: 07-10-2

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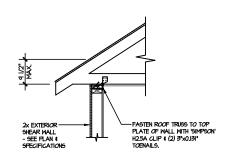
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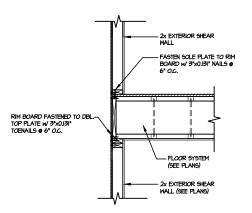
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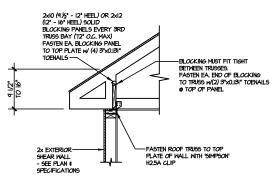


#### TYPICAL SHEAR

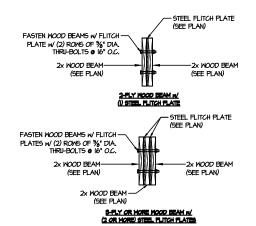
TRANSFER DETAIL @ ROOF TRANSFER HEEL HEIGHT LESS THAN 9½" NO BLOCKING REQ'D



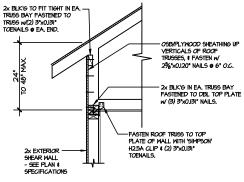
### TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL SCALE: 3/8'=1'-0'



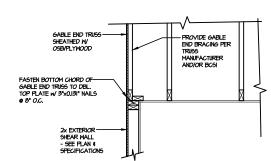




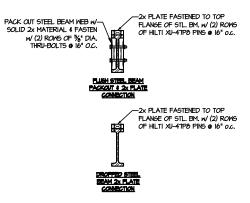
# TYPICAL FLITCH BEAM CONNECTION DETAIL SCALE SAT-IT-OF



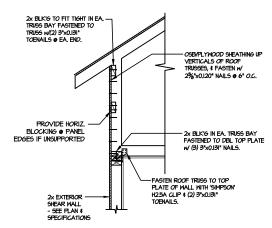
## TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS



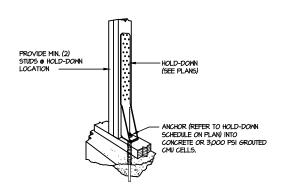
TYPICAL GABLE END DETAIL B TYPICAL (B) 500 ALE: 3/8":1"-0"



TYPICAL STEEL BEAM CONNECTION DETAIL SCALE 8/4\*-11-0\*



TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS



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

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

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

NEIL'S (R.9 RAMING DETAIL COOPER ATFARM LOT 25 - C Raleigh,

**SD2.0** 

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ERN+KULP STRUCTURAL ENGINEERING

MULHE RESIDENTIAL S

Y

M&K project number:

drawn by:

REVISIONS:

126-22076

ssue date: 07-10-2

JTR

GTK

initial:

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ENGINE

SEPHT. RI

SHEAR TRANSFER DETAIL @
BREAK IN TRUSSES OVER SHEAR WALL
SCALE 844-1-0" - 22564
9,69-1-0" - 1647

FASTEN BOTTOM CHORD
OF DRAG TRISS 10
DOUBLE TOP PLATE
WISHPSON A35 CLIPS @
EA, BAY (@ 24' O.C., MAX)

FASTEN BOTTOM CHORD
OF DRAG TRISS 10
DOUBLE TOP PLATE
EA, BAY (@ 24' O.C., MAX)

SHEAR TRANSFER DETAIL

AT INTERIOR SHEARMALL BELOW

SCALE 344-1-0"

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

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M&K project number: 126-22076

project mgr: JTR drawn by: GTK issue date: 07-10-25

REVISIONS:

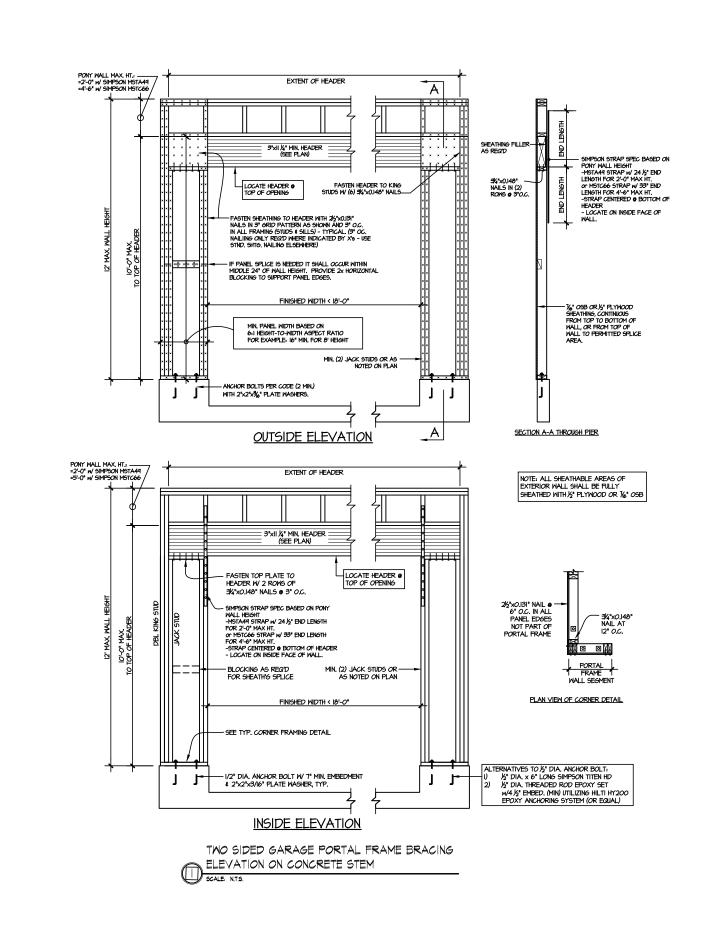
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SEPH T. RI

M&K project number: 126-22076

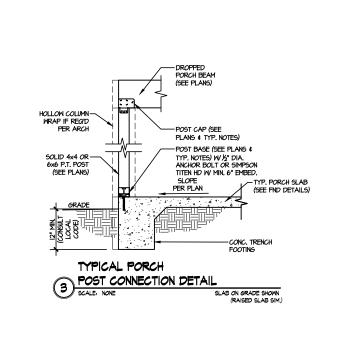
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initial:

REVISIONS:

FARM AT NEIL'S CREEK FRAMING DETAILS

LOT 25 - C Raleigh,



7/10/25 MULHERN+KULP

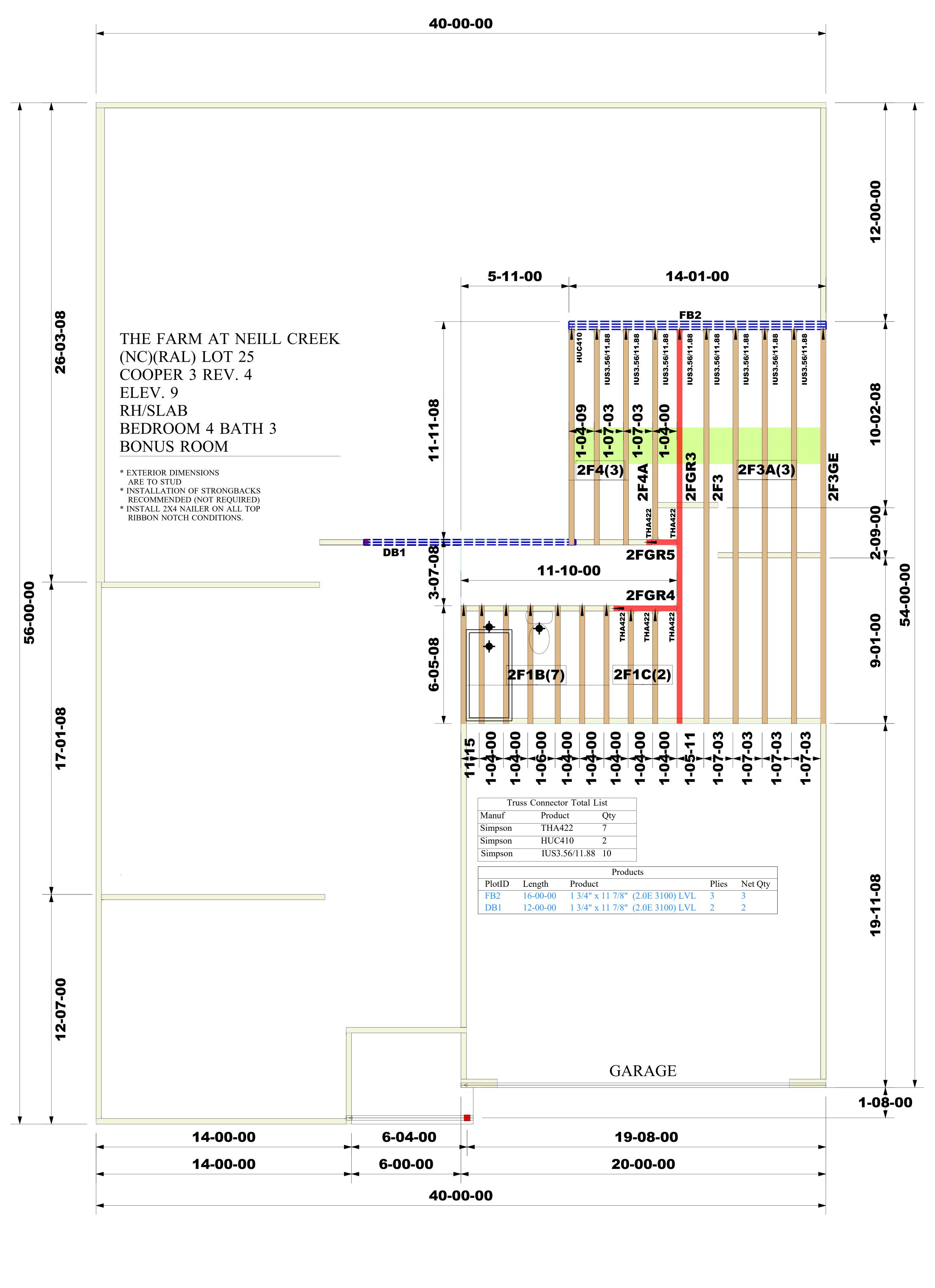
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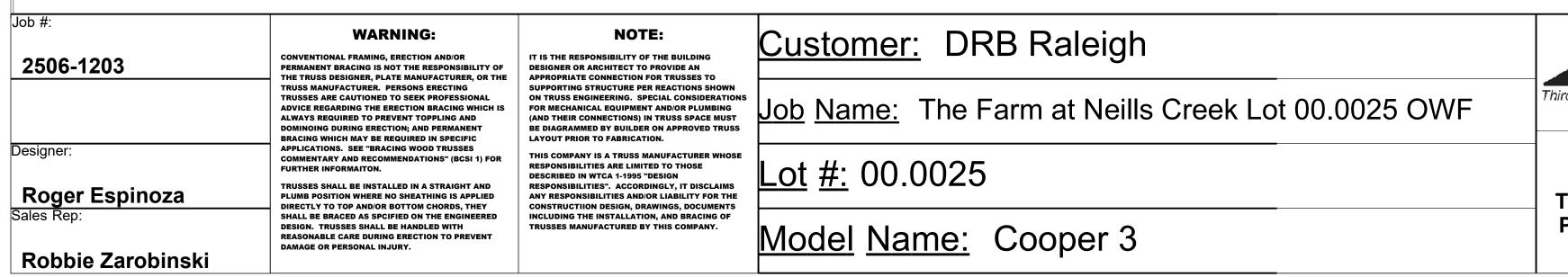
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project mgr: JTR drawn by: GTK issue date: 07-10-25

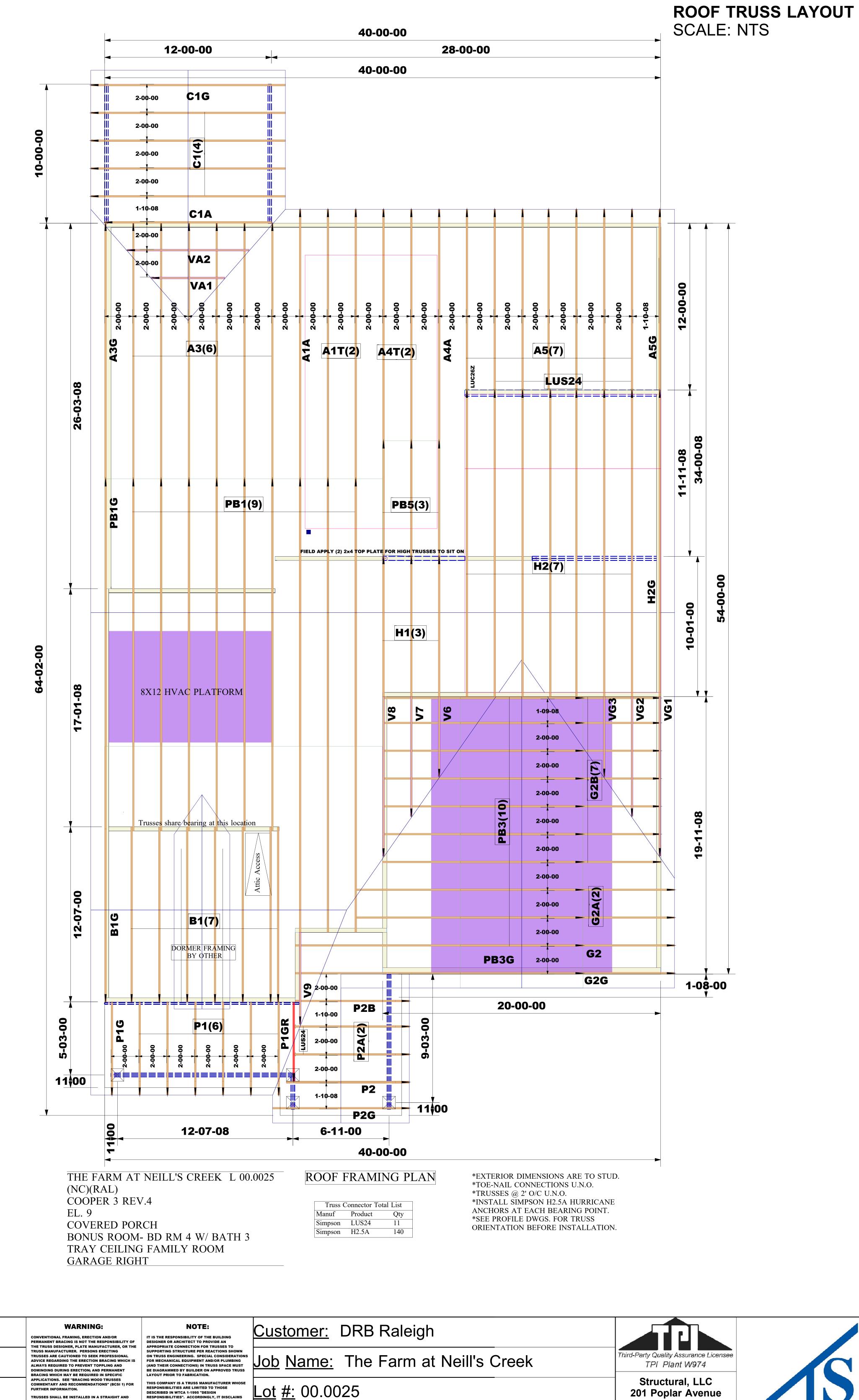
FARM AT NEIL'S CREEK LOT 25 - COOPER 9

SD3.0









Job #:

Designer:

2506-1204

Priyanka Santra Sales Rep:

Robbie Zarobinski

PLUMB POSITION WHERE NO SHEATHING IS APPLIED

DIRECTLY TO TOP AND/OR BOTTOM CHORDS. THEY

REASONABLE CARE DURING ERECTION TO PREVENT

DESIGN. TRUSSES SHALL BE HANDLED WITH

DAMAGE OR PERSONAL INJURY.

SHALL BE BRACED AS SPCIFIED ON THE ENGINEERED

ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE

CONSTRUCTION DESIGN, DRAWINGS, DOCUMENTS INCLUDING THE INSTALLATION, AND BRACING OF

Model Name: Cooper 3

TRUSSES MANUFACTURED BY THIS COMPANY.

Thurmont, MD 21788 Phone: 301-271-7591