COOPER 3-RALE

RALEIGH - LOT 00.0043 THE FARM AT NEILL'S CREEK

(MODEL# 1777)

ELEVATION 6 - GR

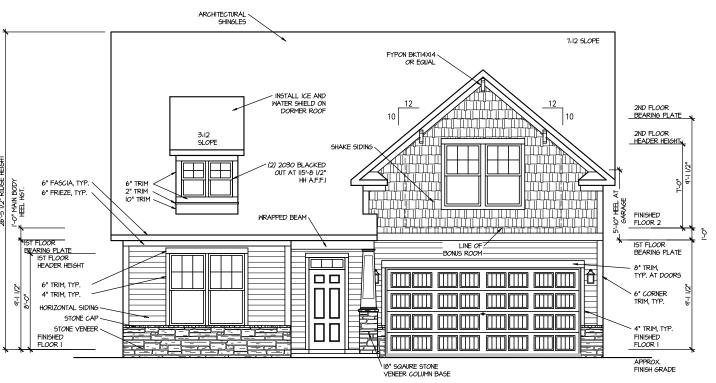


AREA CALCULATIONS ELEVATION 6 FIRST FLOOR GARAGE FRONT PORCH - ELEVATION 6	HEATED 1777 SF	COVERED / UNHEATED 394 SF 37 SF	UNCOVERED
OPTIONS BONUS ROOM SCREENED PORCH	430 SF	120 SF	
TOTAL	2207 SF	551 SF	

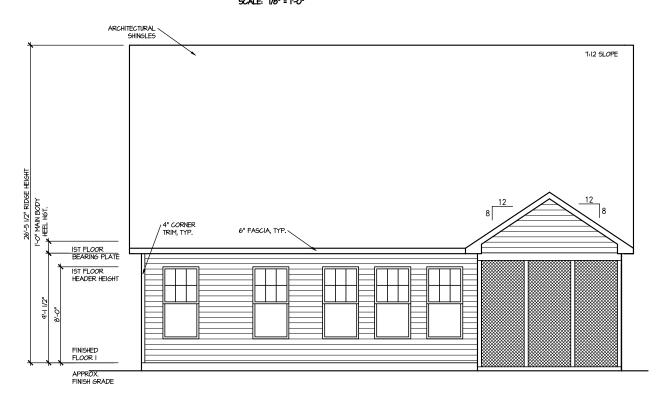
504 Winding Creek Way

LOT	SPECIFIC	
1	LOT 00.0043	THE FARM AT NEILL'S CREEK
<u> </u>		COOPER 3 REV. RALE 4 ELEVATION 6
2	ADDRESS	504 WINDING CREEK DR LILLINGTON, NC 27546
	ADDRESS	304 WINDING CREEK DR LILLINGTON, NC 27346
L		
-		
1		
-		
-		
<u> </u>		
<u> </u>		
-		
<u> </u>		

INDEX	
	+
-	
 	
	+



FRONT ELEVATION 6 SCALE: 1/8" = 1'-0"



REAR ELEVATION 6 SCALE: 1/8" = 1'-0"

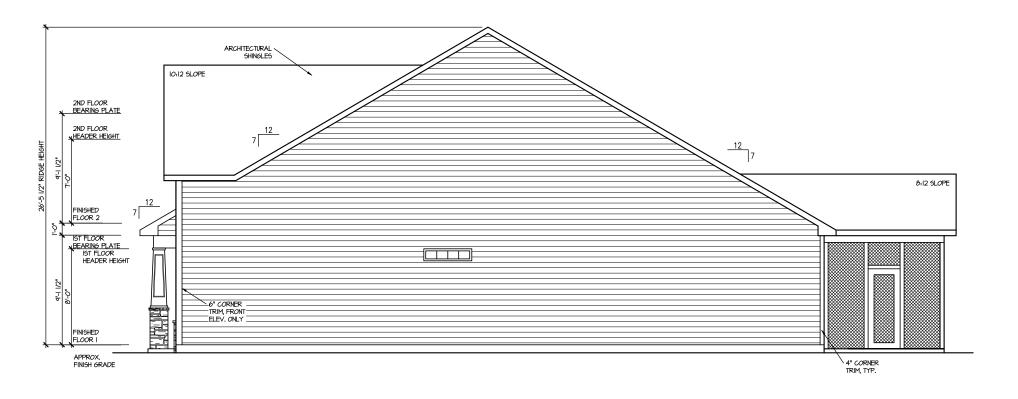
DRAWN BY: DATE: 02/21/2025 PLAN NO. 1777



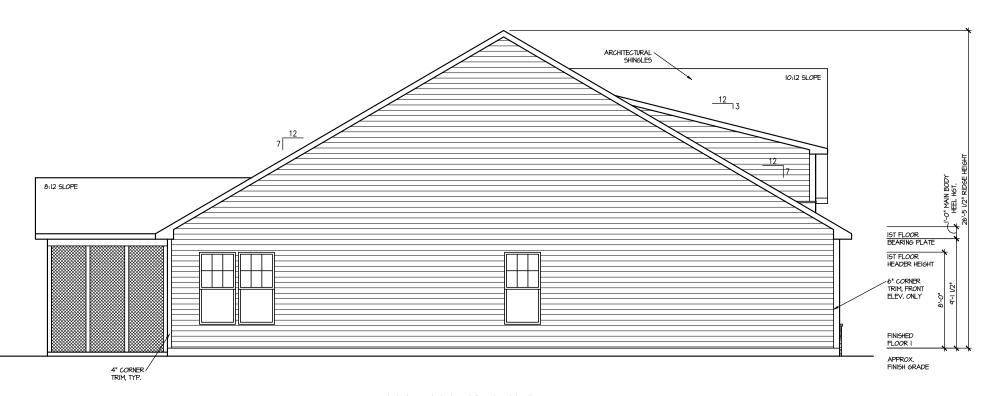
2 HOUSE NAME:
COOPER
DRAWING TITLE

SHEET No.

A|.



RIGHT ELEVATION 6 SCALE: 1/8" = 1'-0"



LEFT ELEVATION 6

SHEET No.

DRAWN BY: DATE: 02/21/2025 PLAN NO. 1777

HOUSE NAME:
COOPER
DRAWING TITLE
RIGHT # LEF

ROOF VENTIL ATION CALCULATIONS:
ROOF AREA = 236 50. FT.
CORRAL SEQUENCY OF THE CONTROL ATION
TO 300 = 1712 50. FT.
10 300 = 1712 50. FT.
50-60% IN TOP THIRD = 326 - 6.10 50. FT. (1 TO 300)
HET FREE AREA OF WINDS SOFT = 5.11 50. IN LINEAR FT.
NET FREE AREA OF RIDGE VENT = 16 50. IN LINEAR FT.

LOWER YANTING, (BOTTOM 2/3 RDS)

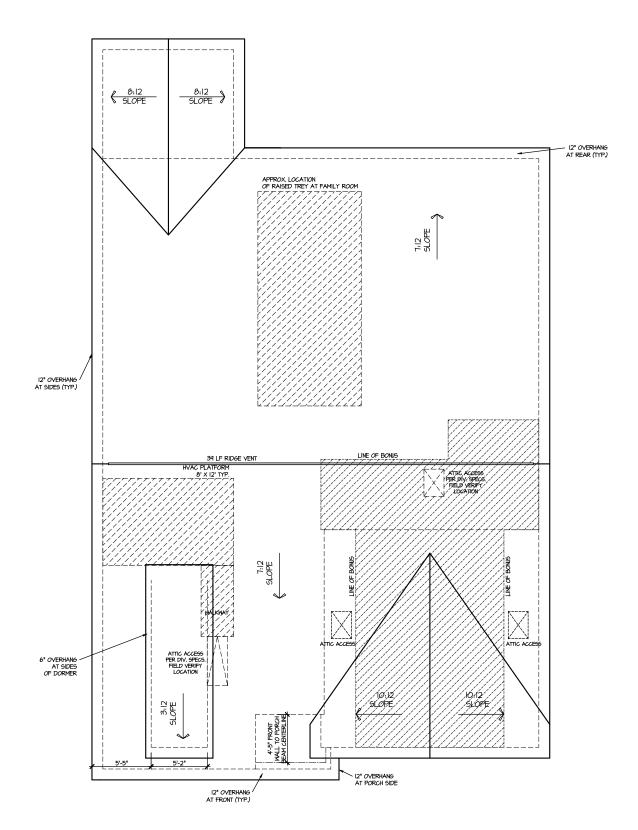
14 LINEAR FEET OF SOFFIT X 3.1 50, IN. = 2.93 50, FT.

14 LINEAR FEET OF RIDGE X 10 50, IN. = 4.05 50, FT.

4.05 50, FT. FEET FEET SOS. = 2.05

10 TO SOO ALLOWED)

TOTAL ROOF VEHILLATION, 1.04 50, FT. > 1.12 50, FT. (ROD)



ROOF PLAN ELEV. 6

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

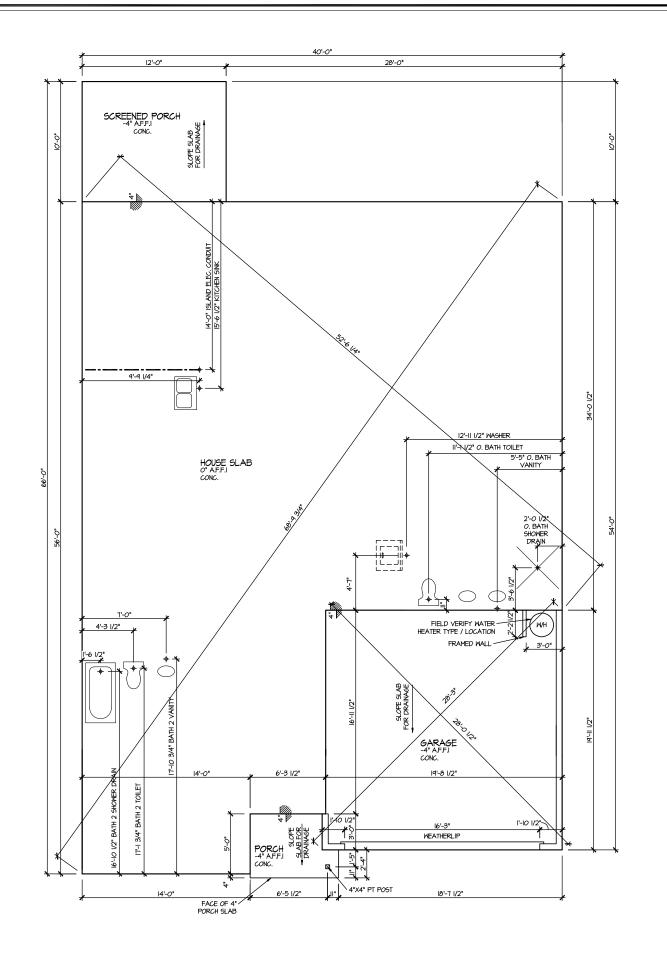
DRAWN BY: DATE: 02/21/2025 PLAN NO. 1777



8 HOUSE NAME:
COOPER ;
DRAWING TITLE
ROOF PLAN

SHEET No.

AI.3



	UPDATED DATE	02-19-2025				
MASTER PLAN INFORMATION	DATE	4-RALE 02-24-2022				
MASTER PL	REVISION DATE	4-RALE				
	DRAWN BY: ITS DATE: 02/21/2025					

PLAN NO. 1777

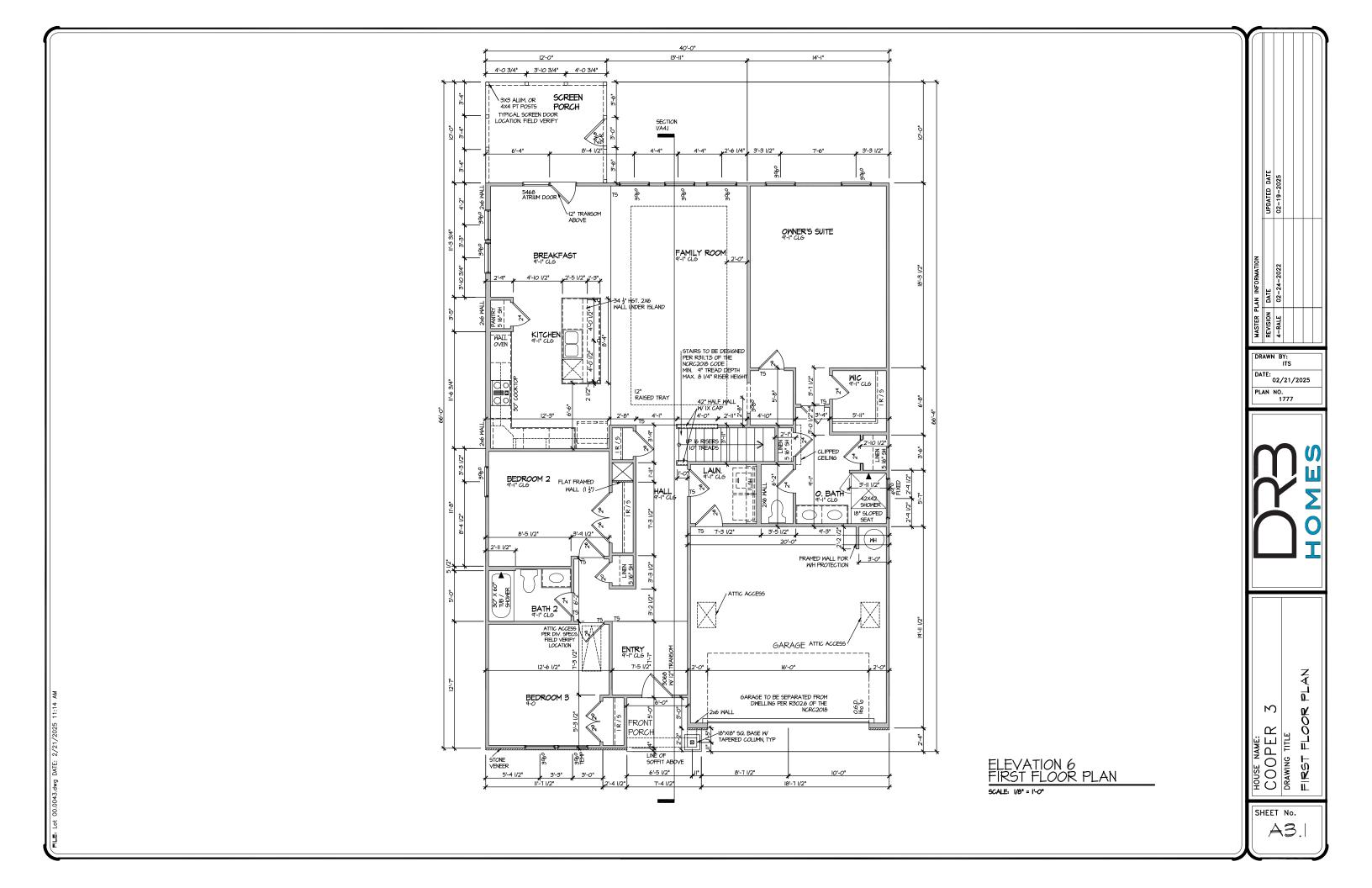


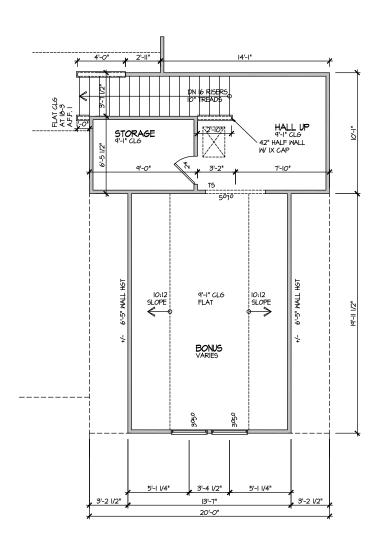
8 HOUSE NAME:
COOPER
DRAWING TITLE
SLAB PLAN

SHEET No.

ELEVATION 6 SLAB PLAN SCALE: 1/8" = 1'-0"

A2.1







DRAWN BY: DATE: 02/21/2025

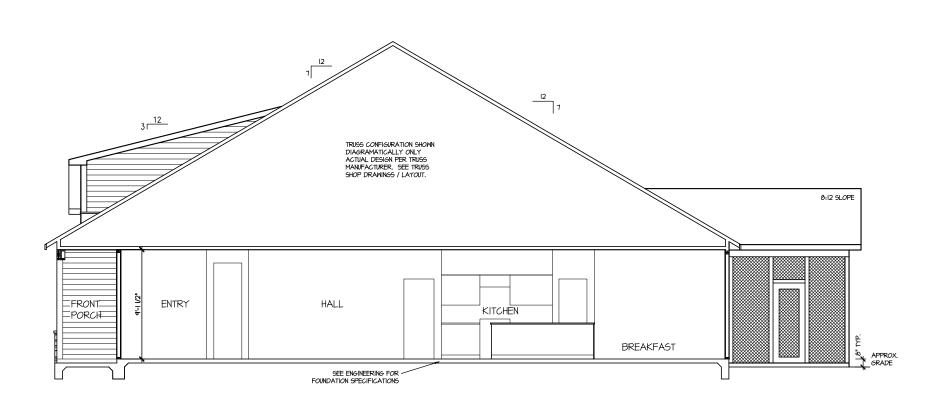
PLAN NO. 1777



HOUSE NAME:
COOPER
DRAWING TITLE

SHEET No.

A3.2



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

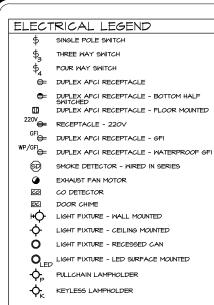
8 HOUSE NAME:
COOPER
DRAWING TITLE
BUILDING SE

9 〒0 □

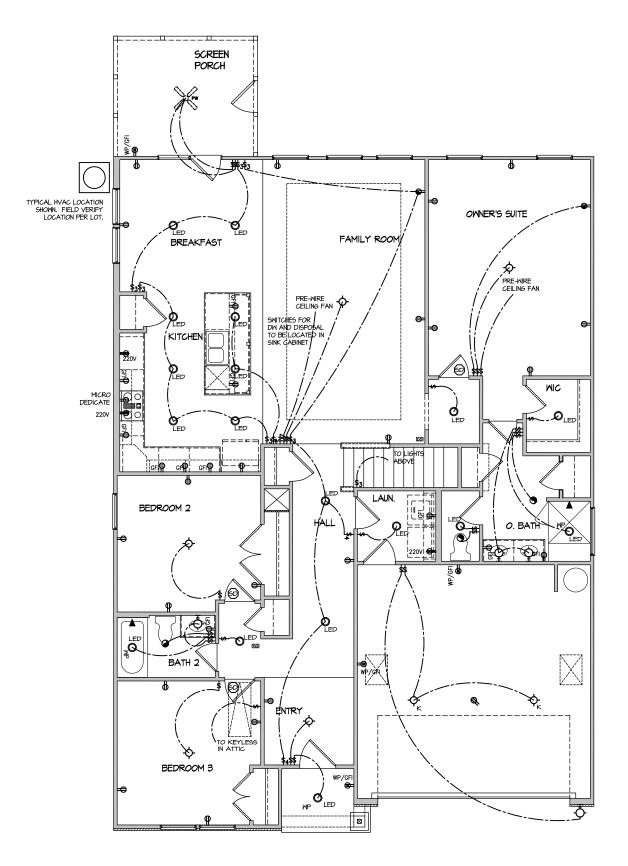
DRAWN BY: DATE: 02/21/2025

PLAN NO. 1777

SHEET No. A4.1



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.



DRAWN BY:

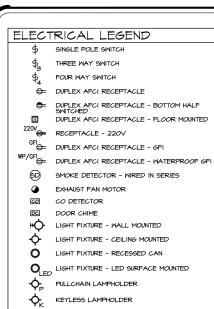
DATE: 02/21/2025 PLAN NO. 1777



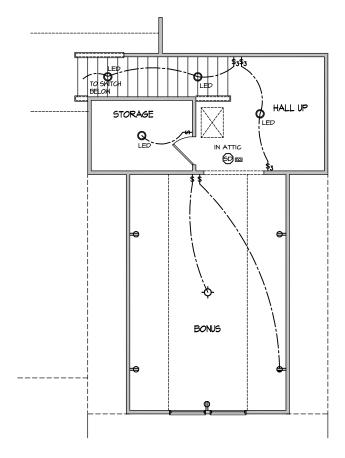
HOUSE NAME:
COOPER
DRAWING TITLE

ELECTRICAL PLAN FIRST FLOOR - ELEV. 6

SHEET No.



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. 6 SCALE: 1/8" = 1'-0" | MASTER PLAN INFORMATION | WASTER PLAN INFORMATION | PROPERTIES | PLAN INFORMATION | P

DRAWN BY:
ITS

DATE:
02/21/2025

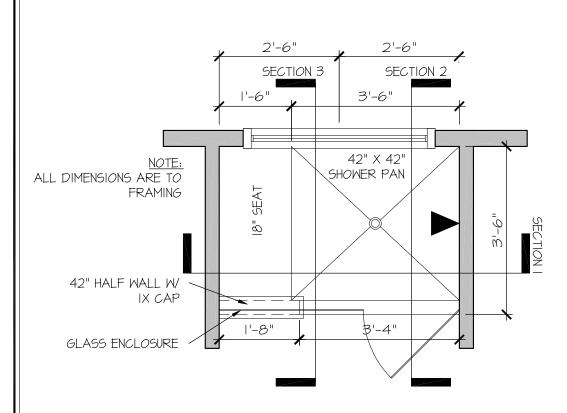
PLAN NO.
1777



LOOR ELECTRICAL

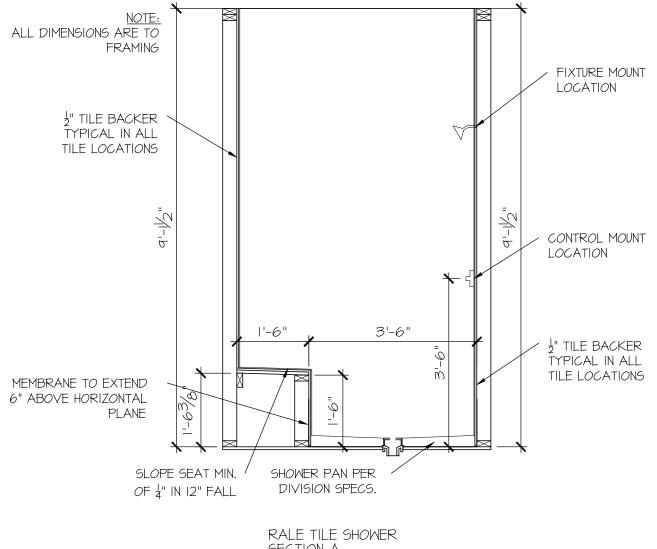
HOUSE NAME:
COOPER 3
DRAWING TITLE
SECOND FLOO

SHEET No.



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

SHEET No.



SEAL

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

PLAN NO.

24 X 36 SCALE

~ "

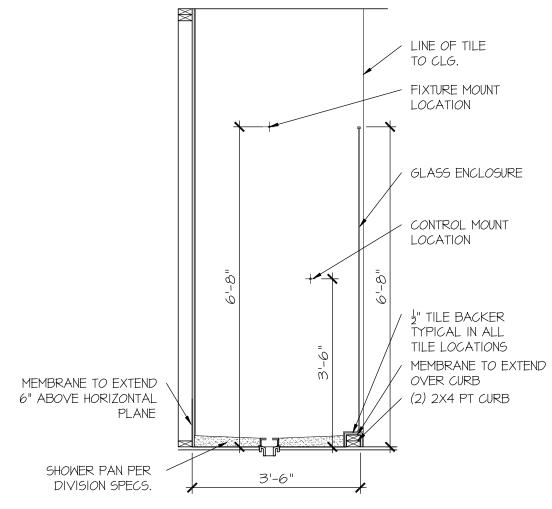


E ILE SHOWER DETAIL

OUSE NAME:

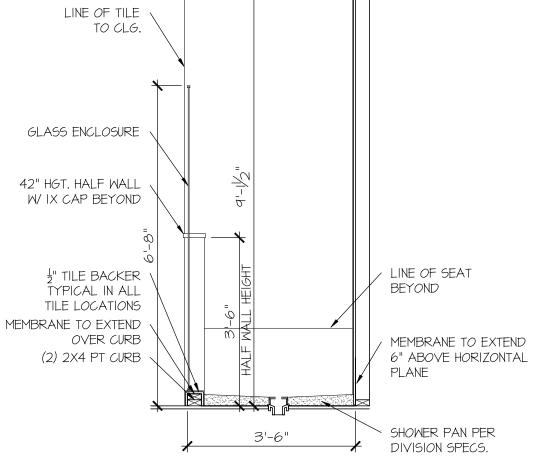
SHEET No.

P||.2



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





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

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 - 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 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 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 ieq 000,06
- 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
- ADEQUATE TEMPORARY BRACING OR INSTALL ISL 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.C
- LARGER OPENINGS SHALL BE PER PLAN.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMEN
- 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
- 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: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 REINFORGEMENT (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 ABO
- 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 NDS. "NATIONAL DESIGN

DESIGN LOADS:

DEAD = 7 PSF T.C., 10 PSF B.C.

LOAD DURATION FACTOR = 1.25

LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (I-JOISTS & SOLID SAWN)
10 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 REQUIREMENT 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 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. UN.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:
- 'LSL' Fb=2325 psi; Fv=3I0 psi; E=I.55xI0^6 psi 'LVL' Fb=2600 psi; Fv=285 psi; E=2.0xI0^6 psi
- 'PSL' FB=2400 PSI; FV=240 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 THI 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 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 31/3" 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 $\mbox{\it K}_2$ " OR 5 $\mbox{\it K}_3$ " 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 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 T" BEAM IS ACCEPTABLE.
- ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD & (1)2x
- 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 INDER 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-, IOISTS/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 1/8" 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" × 0.131" NAILS @ 6"o.c. @ PANEL EDGES & @ 12"o.c. FIELD.
- 2 🖥 x 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 H2 ST 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.
- PERECT AND INSTALL ROOF TRUSSES PER WICA & TPI'S BOSI 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/
 - 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 7/16" 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. - w/ 2 🖁 × 0.120" NAILS @ 4"o.c. @ PANEL EDGES & @ 8" O.C. FIELD.
- W 2 8 × 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 U.N.O.) -OR- MSTC66B3 ALTERNATE
▶ HD-3	SIMPSON STHDI4/STHDI4RJ

* UTILIZE THE SSTB24 ANCHOR BOLT ● ALL MONOSLAB & INTERIOR RAISED SLAB (I.E. THICKENED SLABS, FOOTINGS) CONDITIONS. MINIMUM 24" MIN.

POXY-SET ALTERNATE FOR MONOSLAB & INTERIOR RAISED SLAB THREADED ROD INTO CONCRETE FOUNDATION, PROVIDE 10" (FOR 5/8" DIA.) OR 5" (FOR 1/8" DIA.) MIN, EMBEDMENT INTO CONCRETE. NSTALL PER MANUE. INSTRUCTIONS. MINIMUM 16" FOOTING THICKNESS REQ'D.

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

LATERAL BRACING & SHEAR MALL 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 R301,21,1) EXP. B. RISK CAT. 2 & SEISMIC CAT. A/B

THE DESIGN WAS COMPLETED PER 2015 IBC (SECTION 1609) & ASCE 7-10, AS PERMITTED BY 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 NCSBC:RC 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

- 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. 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 3/8" 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 V 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.

<u>NOTES</u>

- SEE CONNECTION SPECIFICATIONS CHART FOR 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 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 AD JACENT PARALLEL TRUSSES/JOISTS OR GIRDER TRUSSES/FLUS BEAMS DO NOT EXCEED THE FOLLOWING: 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" 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"xII%" - F	(3)1¾"x11%" - F	(2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - F	WI2xI4 - F
002	(3)1¾"x11%" - F	5¼"xII%" - F	(4)1¾"x11%" - F	(2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - F	WI2xI4 - F
003	(2)134"x1136" - F	3½"xII%" - F	(3)1¾"x11%" - F	(2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - F	WI2xI4 - F
004	(2)134"×11 ¼" - D	3½"xII ⅓" - Ɗ	(2)134"×1136" - D	(2)2xi0 + (1) %"xil4" STEEL	W8XIO - 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/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 SICCESSION W/ (2) 3"X0 120" NAILS @ 8" OC.
- 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.

LEGEND

- IIIIII 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.

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

NOTES:

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

CAR OFESSIO. ENGINE ERN+KU

> $\mathbf{\Sigma}$ Y

三

1&K project numbe 126-2207

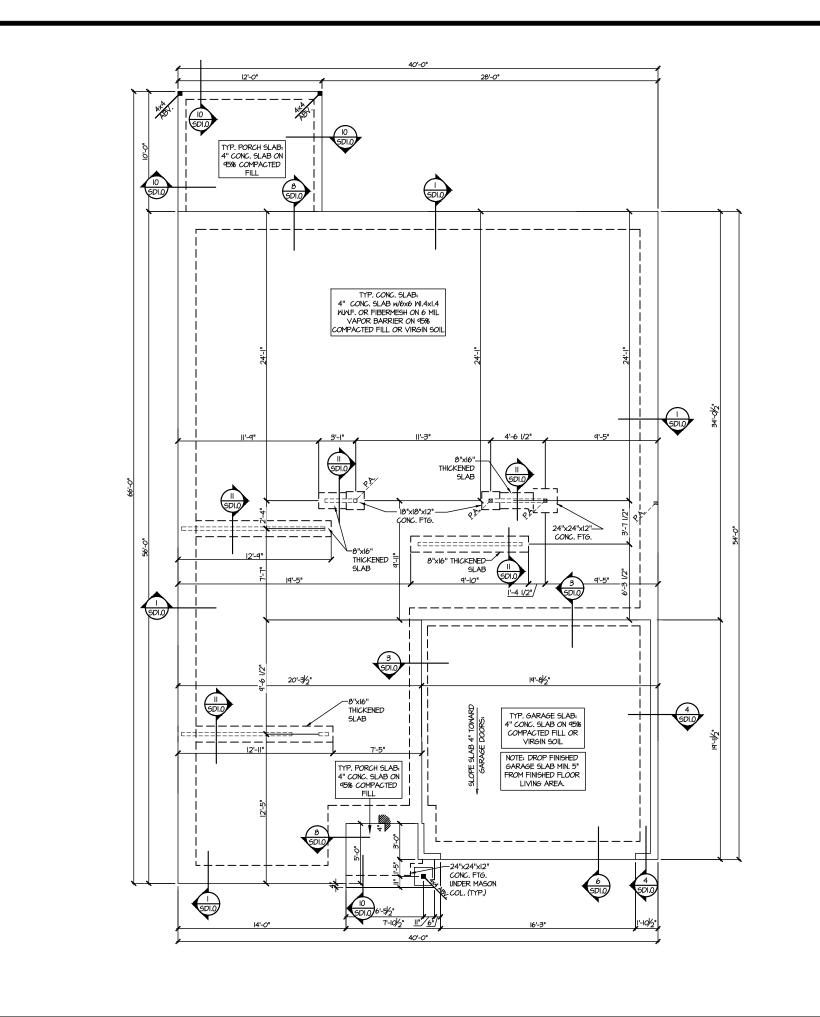
ITF rawn by: KJN ssue date: 03-03-2

EVISIONS: initial:



CREEK TRUCTURAL NOTE NEIL'S R 6 I AT I RM

Ľ



MONO SLAB FOUNDATION PLAN SCALE: 1/8"=1'-0"

LEGEND

- 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

3/5/25

¥

M&K project number: 126-22076

drawn by:

REVISIONS:

JTR

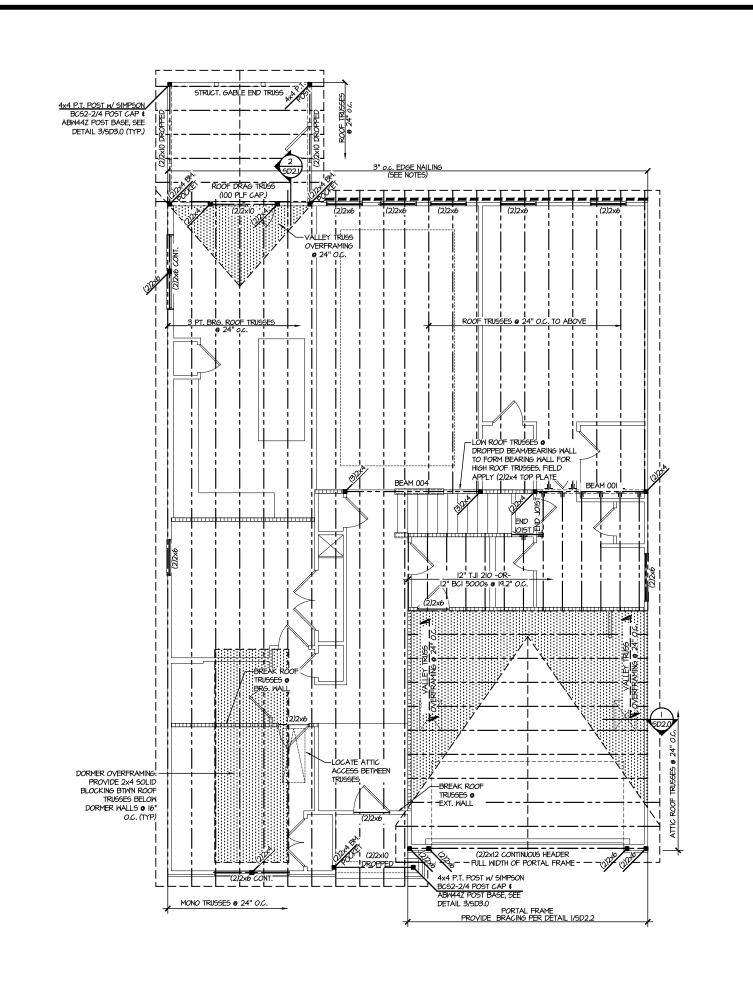
KJN issue date: 03-03-25

initial:

H CAR

FOUNDATION PLANS
FARM AT NEIL'S CREEK
LOT 43 - COOPER 6

S1.0



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

LEGEND

- IIIIII 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								
BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION				
001	(2)1¾"x11%" - F	3½"xII%" - F	(3)134"x1136" - F	(2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - F	WI2xI4 - F				
002	(3)1¾"x11%" - F	5¼"×II%" - F	(4)1¾"×11%" - F	(2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - F	WI2xI4 - F				
003	(2)1¾"x11¾" - F	3½"xII%" - F	(3)1¾"x11¾" - F	(2)2xl2 + (l) %"xll4" STEEL FLITCH PLATES - F	WI2xI4 - F				

004

(2)13/4"xII 1/2" - D

- BEAM NOTATION:

 "F" INDICATES FLUSH BEAM

 "F" INDICATES FLUSH BOTTOM BEAM

 "B" INDICATES FLUSH BOTTOM BEAM

 "D" INDICATES DROPPED BEAM

 "H" INDICATES DROPPED OPENING HEADER

3½"xII ¼" - D

- REFER TO DETAIL D'802.0 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 SICCESSION W (2) 3"X0.120" 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.

MULHERN+KULI
RESIDENTIAL STRUCTURAL ENSINEERIN

3/5/25

CAR



M&K project number: 126-22076

JTR drawn by: KJN issue date: 03-03-25

REVISIONS:

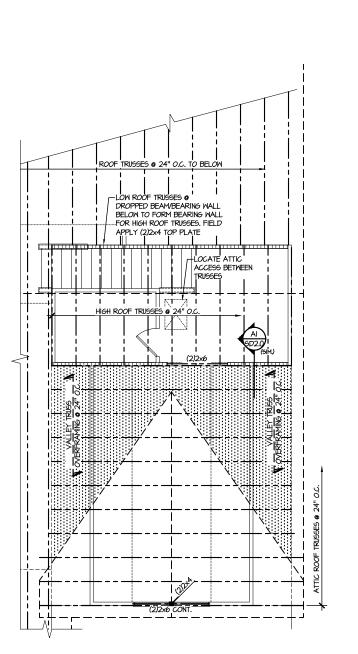
initial:

CREEK LANS ROOF FRAMING P NEIL'S R 6

WBXIO - D

1 AT N COOPER FARM A LOT 43 - CC

S2.



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

H CAR MUCHERN+KULP

Y

3/5/25

M&K project number: 126-22076

JTR drawn by: KJN issue date: 03-03-25

REVISIONS:

initial:

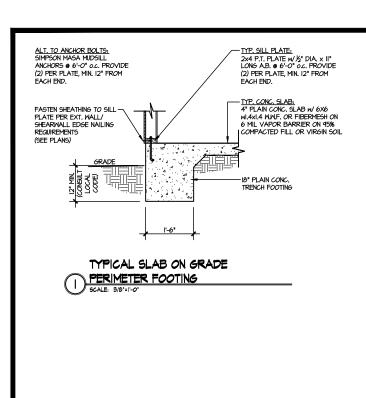
FARM AT NEIL'S CREEK
LOT 43 - COOPER 6
RALEIGH, NC

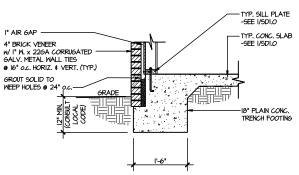
S3.0

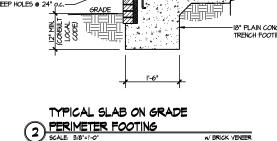
LEGEND

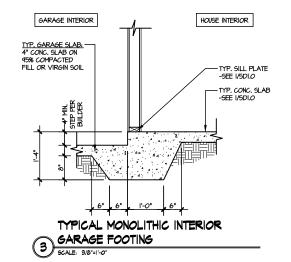
- INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- ---- BEAM / HEADER
- = = INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- * INDICATES POST ABOVE, PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

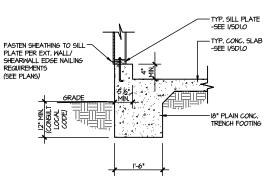
REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES



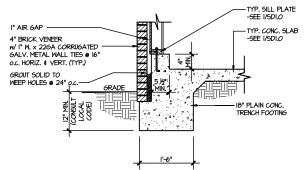






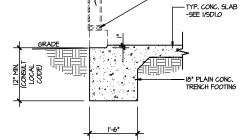


TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING

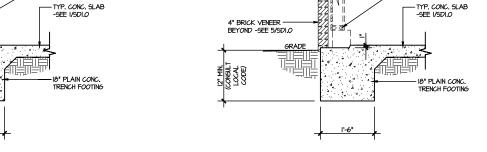


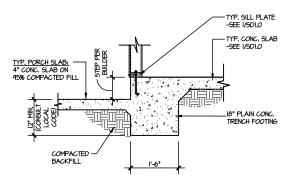
TYPICAL SLAB ON GRADE GARAGE

5 PERIMETER FOOTING
SCALE: 3/8"=1"-0"



- TYP, SILL PLATE BEYOND -SEE I/SDI.O



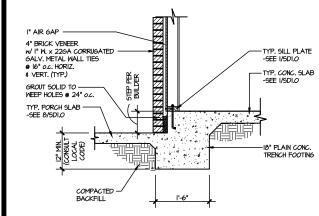


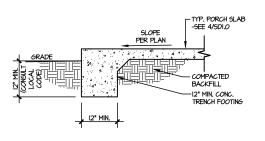


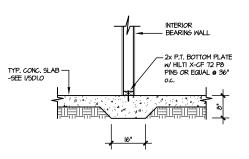


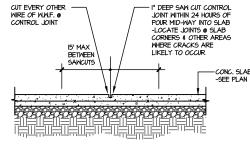
-TYP. SILL PLATE BEYOND -SEE I/SDI.0

TYPICAL SLAB ON GRADE PERIMETER 8 FOOTING @ PORCH/PATIO









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

TYPICAL SLAB ON GRADE PERIMETER FOOTING @ 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 DETAILS -CONC. SLAB -SEE PLAN LOCATE @ 15'-O" o.c. MAX OR CORNERS WHERE CRACKS LIKELY TO DEVELOP

SD1

LOT

CREEK

NEIL'S R 6

1 AT N COOPER

FARM

3/5/2

CERN+KUI

Z

Y

M&K project number 126-2207

drawn by:

REVISIONS:

JTF

KJN

initial:

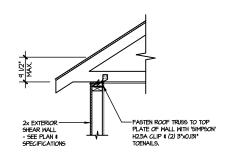
ssue date: 03-03-2

CAR

OFESSIO,

ENGINE

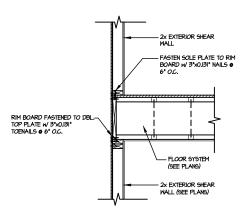
SEPH T. R



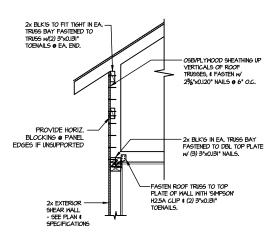
TYPICAL SHEAR TRANSFER DETAIL @ ROOF

TRANSFER

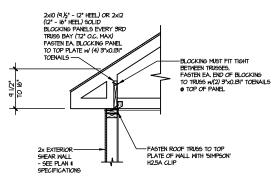
SCALE: 3/8"=1"-0" HEEL HEIGHT LESS THAN 9½" NO BLOCKING REQ'D



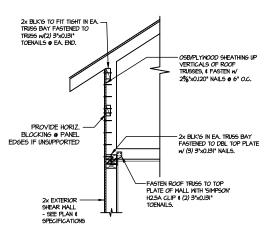
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL



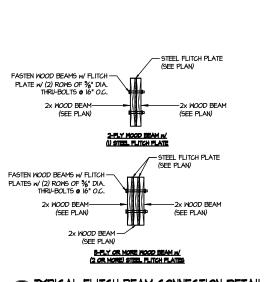
TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS SCALE: 3/8"=1'-0"



TYPICAL SHEAR TRANSFER DETAIL @ ROOF SCALE: 3/8"=1"-0" HEEL HEIGHT BETWEEN 9 1/2 HEEL HEIGHT BETWEEN 9 ½" - 16" BLOCKING REQ'D



TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS HEEL HEIGHT GREATER THAN 48"



TYPICAL SHEAR TRANSFER

DETAIL @ RAISED HEEL TRUSS

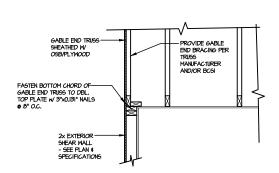
- 2x Blk'g in Ea. Truss Bay Fastened to DBL top Plate W (3) 3"x0.131" Nails.

-Fasten Roof Truss to top Plate of Wall With Simpson' H2.5A Clip & (2) 3"x0.131" Toenails.

2x Blk'g to fit tight in Ea. Trugs bay fastened to Trugs w(2) 3"x0.131" Toenails ⊕ Ea. End.

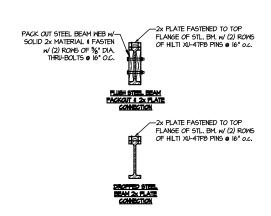
2x EXTERIOR — SHEAR WALL - SEE PLAN & SPECIFICATIONS

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



TYPICAL GABLE END DETAIL

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



TYPICAL STEEL BEAM CONNECTION DETAIL
SCALE 944-1-0*

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.

CREEK RAMING DETAILS NEIL'S R 6 1 AT N COOPER FARM LOT 43 - CC

3/5/2

ERN+KULI STRUCTURAL ENGINEERIN

MULH EMPENTIALS

Y

M&K project number:

frawn by:

REVISIONS:

126-22076

issue date: 03-03-2

JTR

KJN

initial:

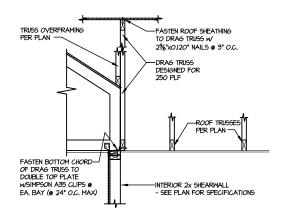
H CAR OFESSIO.

ENGINE

SEPHT. RI

SD2.0

SHEAR TRANSFER DETAIL @ Break in trusses over shear wall SCALE. 3/4"=1"-0" - 22:64 3/0"=1"-0" - IbdT



SHEAR TRANSFER DETAIL

AT INTERIOR SHEARMALL BELOW
SCALE 844-1-0"

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.

OSEPH T. RI MUCHERN+KULP **y** M&K project number:

3/5/25

TH CAR

126-22076

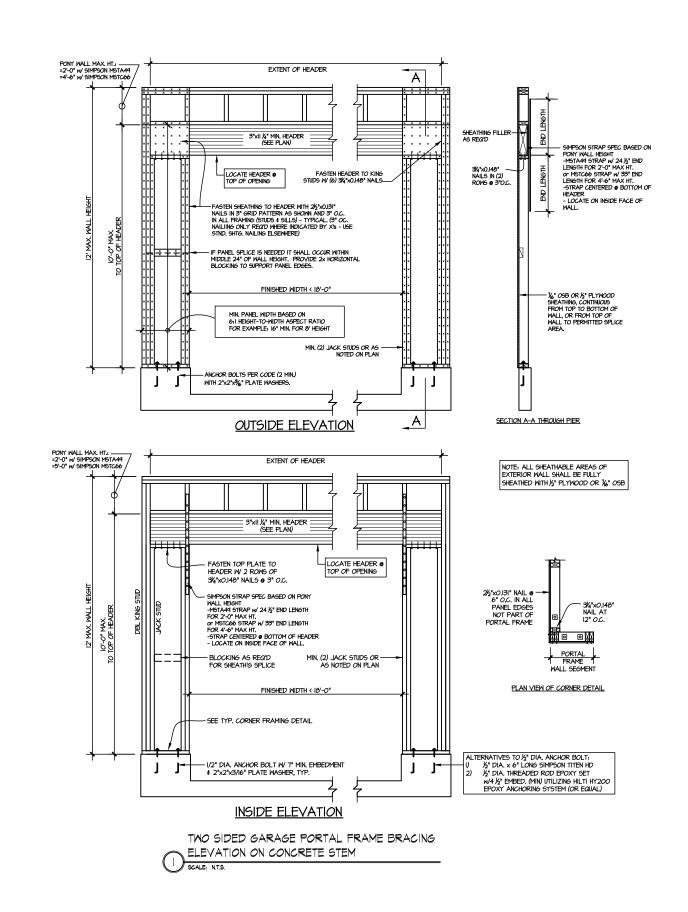
JTR KJN drawn by: issue date: 03-03-25

REVISIONS:

initial:

FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 43 - COOPER 6

SD2.



TH CAR ¥

3/5/25

M&K project number: 126-22076

JTR drawn by: KJN issue date: 03-03-25

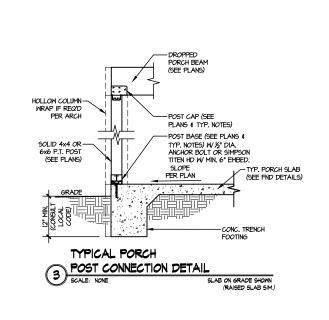
REVISIONS:

initial:

FRAMING DETAILS
FARM AT NEIL'S CREEK

FARM AT NEIL'S Lot 43 - Cooper 6

SD2.2



3/5/25 H CAR OSEPH T. RI



M&K project number: 126-22076

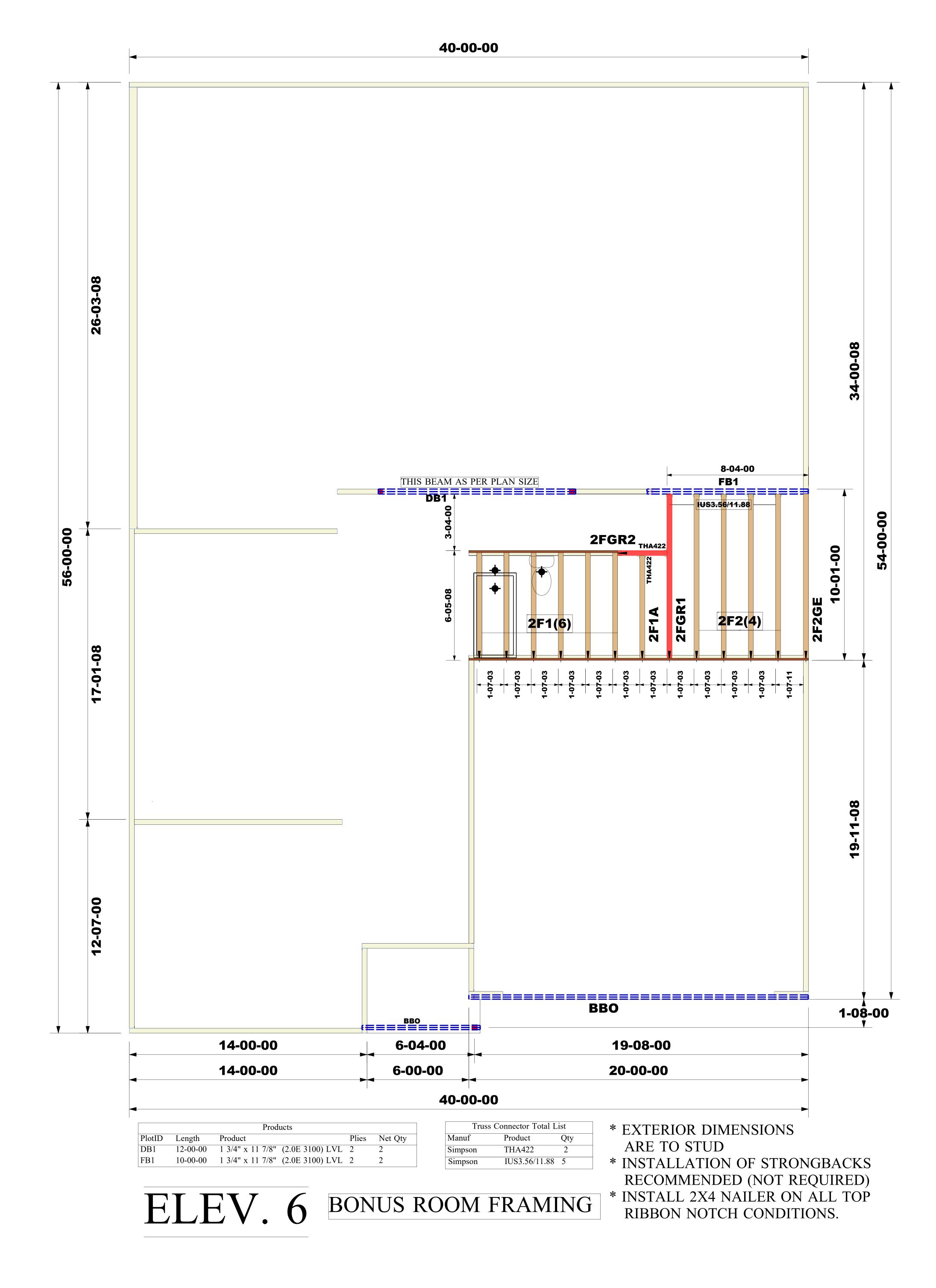
JTR drawn by: KJN issue date: 03-03-25

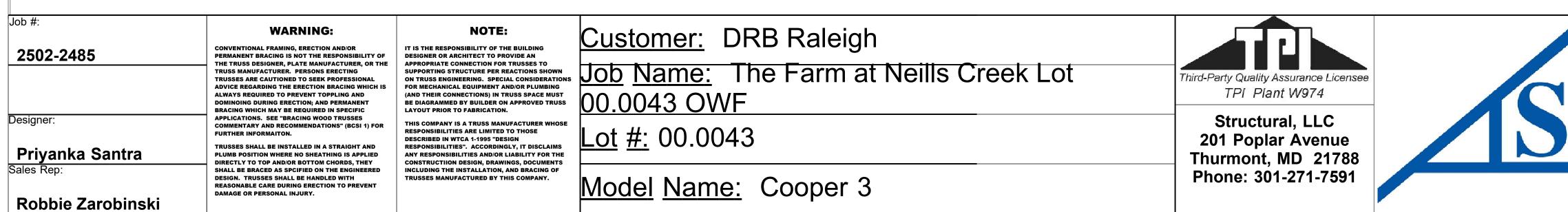
REVISIONS:

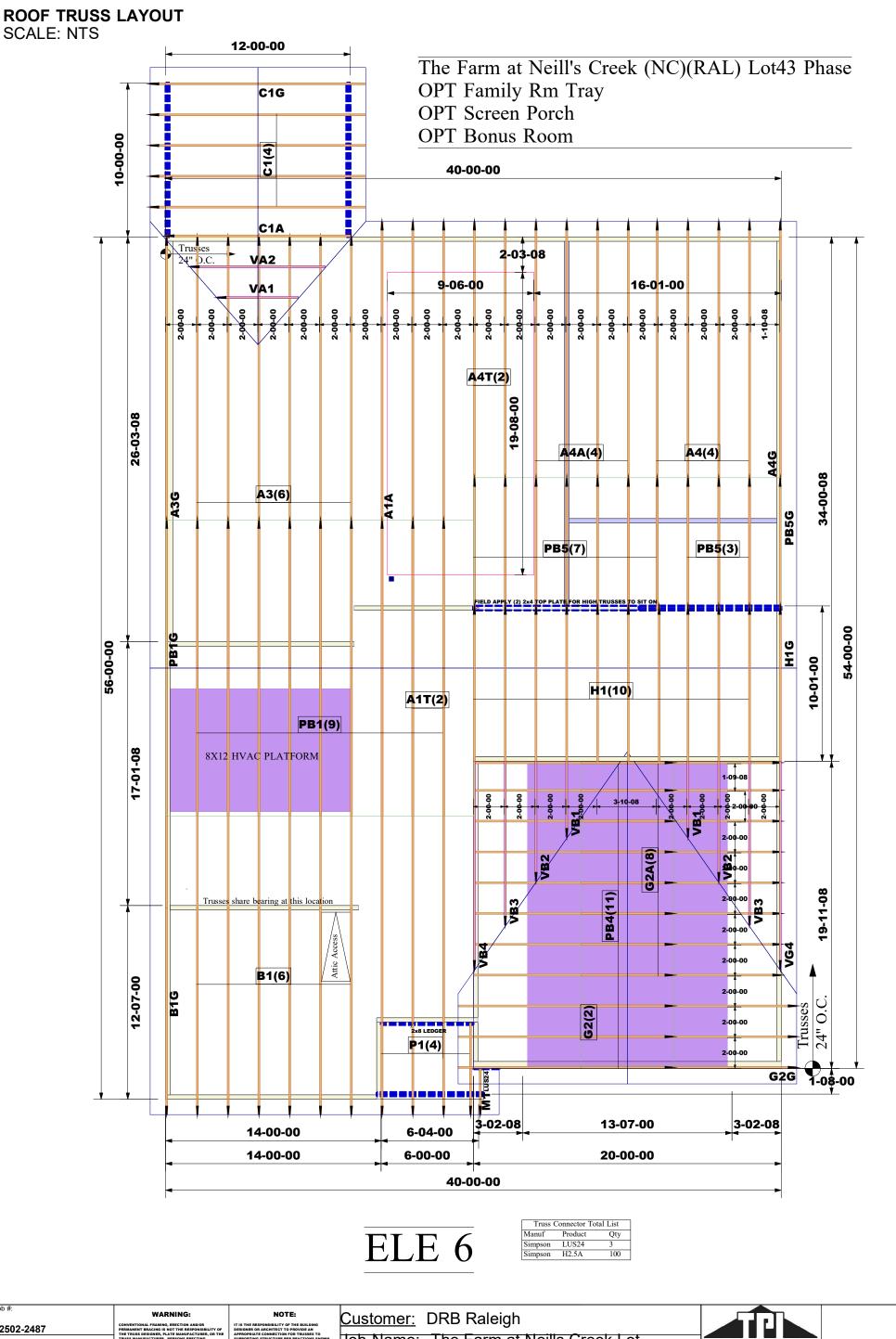
initial:

FARM AT NEIL'S CREEK
LOT 43 - COOPER 6

SD3.0







WARNING:
2502-2487

WARNING:
CONVENTIONAL FRAINMO, RECTION ANDOR PERMANENT RECIDIOR IS NOT THE RESPONSIBILITY OF THE RESPONSIBILITY