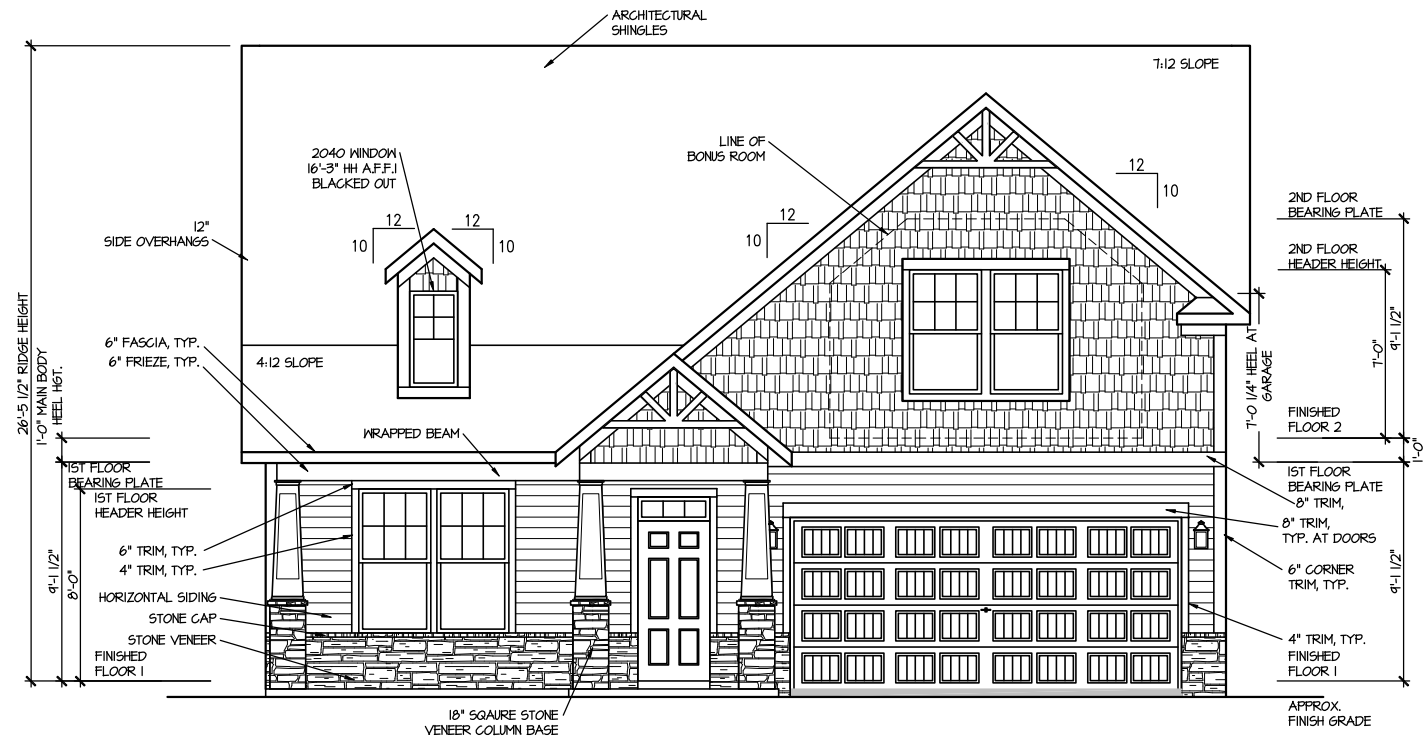


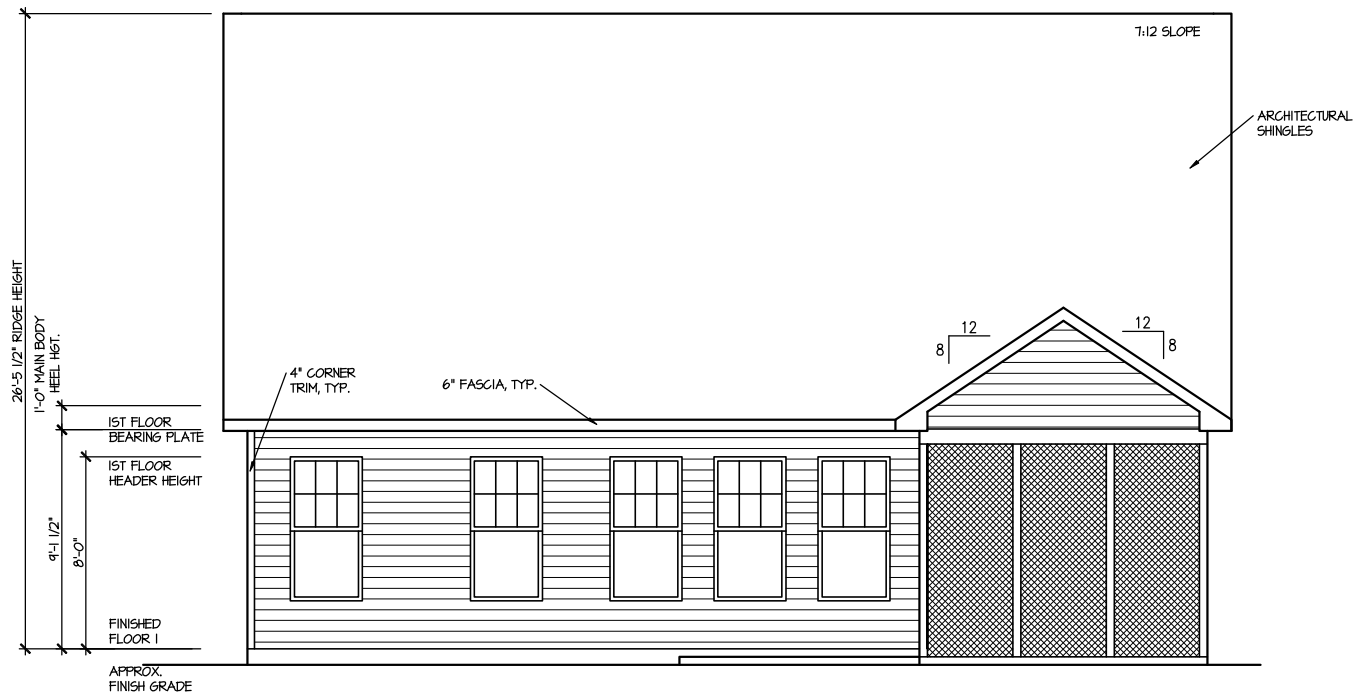


FILE: Lot\_00.0039.dwg DATE: 2/21/2025 10:01 AM



FRONT ELEVATION 9

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



REAR ELEVATION 9

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

MASTER PLAN INFORMATION

REVISION	DATE	UPDATED DATE
4-RALE	02-24-2022	06-17-2024

DRAWN BY: ITS

DATE: 02/21/2025

PLAN NO. 1777

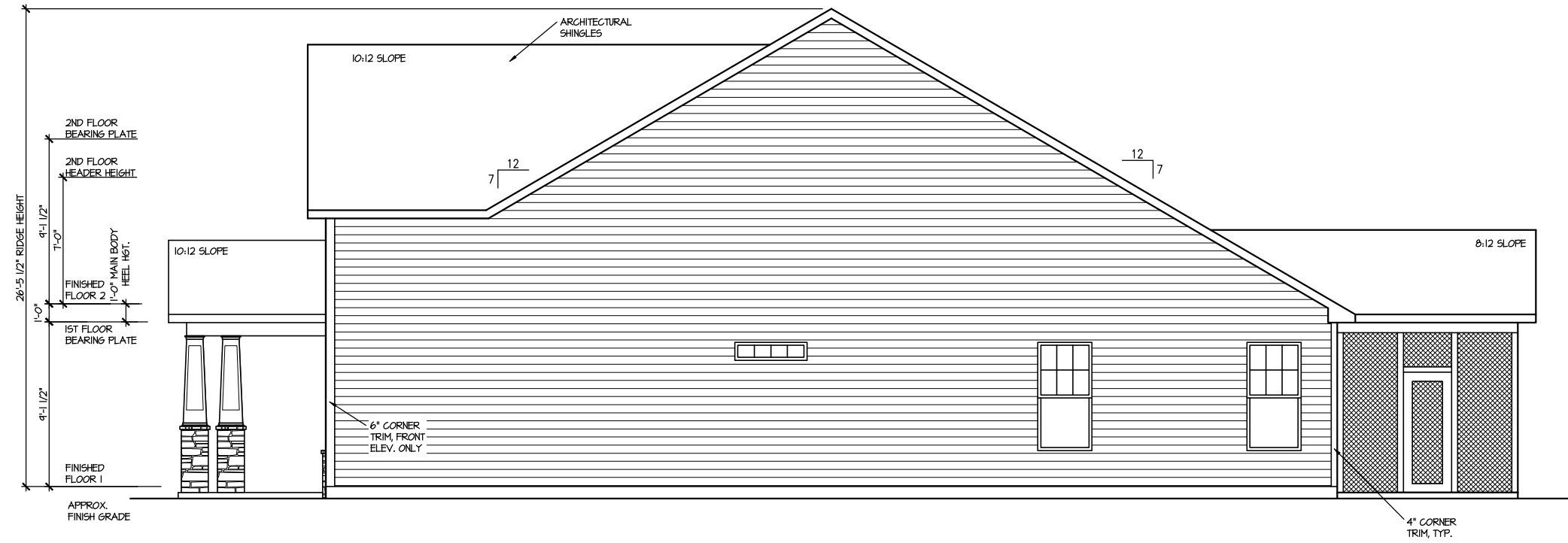
**DRB**  
HOMES

HOUSE NAME:  
COOPER 3

DRAWING TITLE  
FRONT & REAR ELEVATIONS

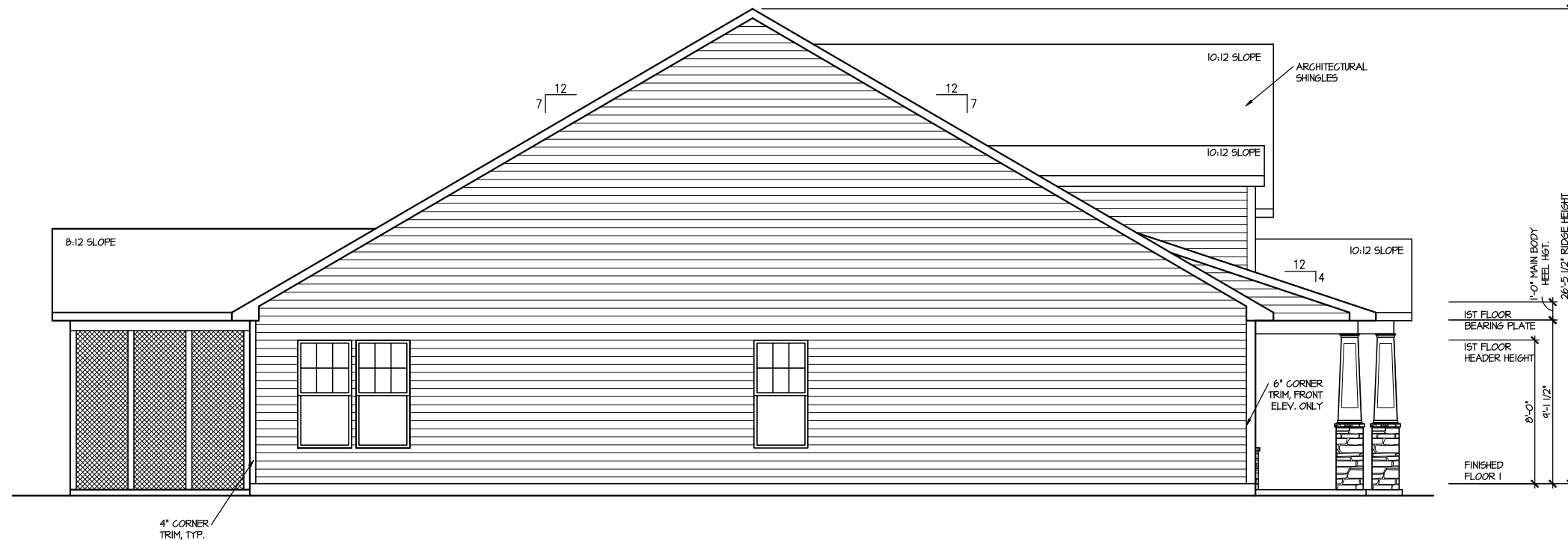
SHEET No.

A.1



RIGHT ELEVATION 9

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



LEFT ELEVATION 9

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

FILE: Lot\_00.0039.dwg DATE: 2/21/2025 10:01 AM

MASTER PLAN INFORMATION			UPDATED DATE
REVISION	DATE		
4-RALE	02-24-2022		06-17-2024

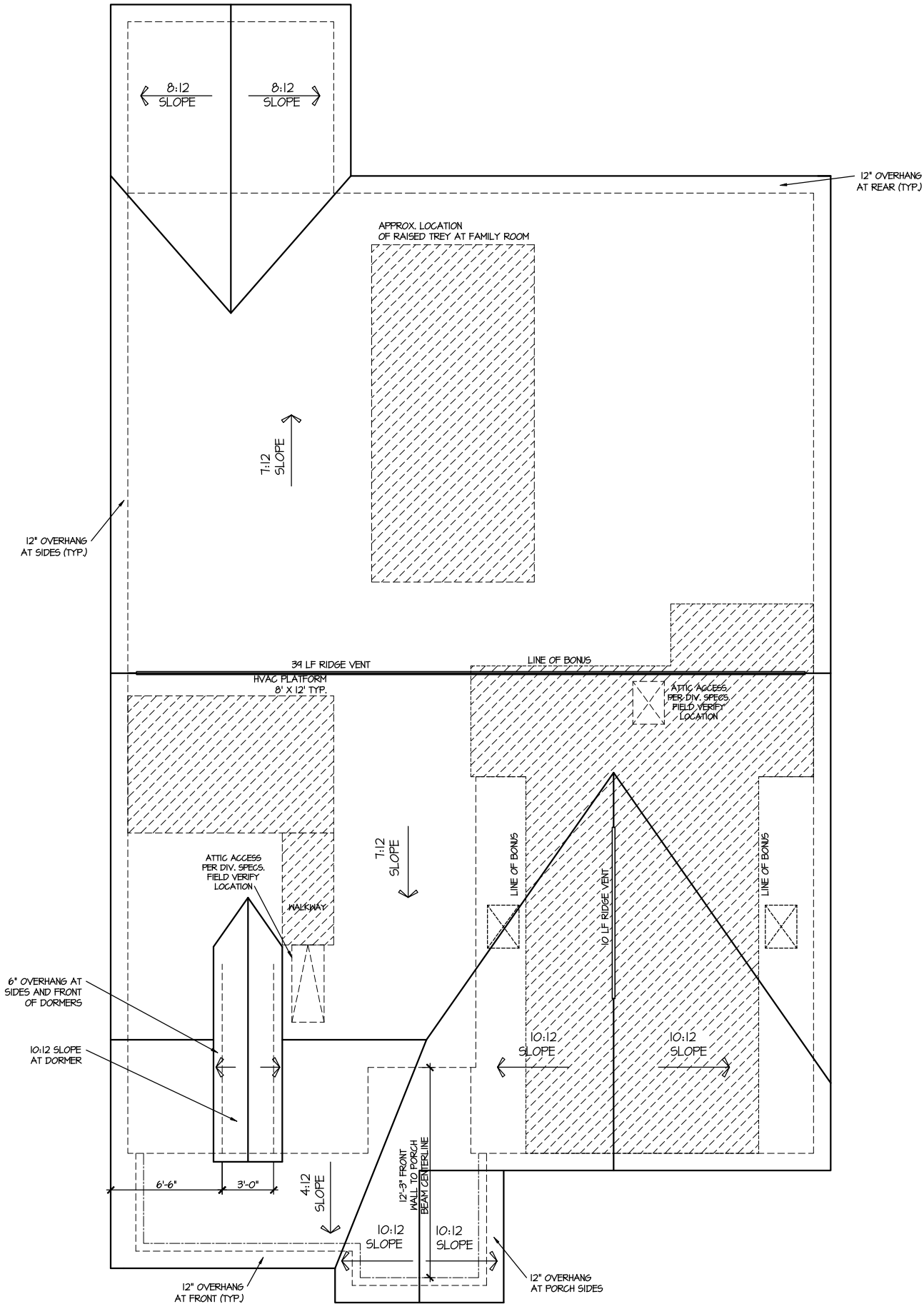
DRAWN BY:	ITS
DATE:	02/21/2025
PLAN NO.	1777

**DRB**  
**HOMES**

HOUSE NAME:  
**COOPER 3**  
DRAWING TITLE  
**RIGHT & LEFT ELEVATIONS**

SHEET No.  
**A1.2**

ROOF VENTILATION CALCULATIONS:  
ROOF AREA = 2466 SQ. FT.  
OVERALL REQUIRED VENTILATION:  
1 TO 50 = 16.44 SQ. FT.  
1 TO 300 = 8.22 SQ. FT.  
50-60% IN TOP THIRD = 411 - 656 SQ. FT. (1 TO 300)  
NET FREE AREA OF VENTED SOFFIT = 5.1 SQ. IN / LINEAR FT.  
NET FREE AREA OF RIDGE VENT = 19 SQ. IN / LINEAR FT.  
LOWER VENTING (BOTTOM 2/3 ROOF)  
14 LINEAR FEET OF SOFFIT X 5.1 SQ. IN = 2.13 SQ. FT.  
UPPER VENTING (TOP 1/3 ROOF)  
41 LINEAR FEET OF RIDGE X 19 SQ. IN = 6.19 SQ. FT.  
6.19 SQ. FT. BETWEEN 50% - 60%  
(1 TO 300 ALLOWED)  
TOTAL ROOF VENTILATION: 7.81 SQ. FT. > 8.22 SQ. FT. (REQ'D)



ROOF PLAN ELEV. 9  
SCALE: 1/8" = 1'-0"

FILE: Lot\_00.0039.dwg DATE: 2/21/2025 10:01 AM

MASTER PLAN INFORMATION			UPDATED DATE
REVISION	DATE		
4-RALE	02-24-2022		06-17-2024

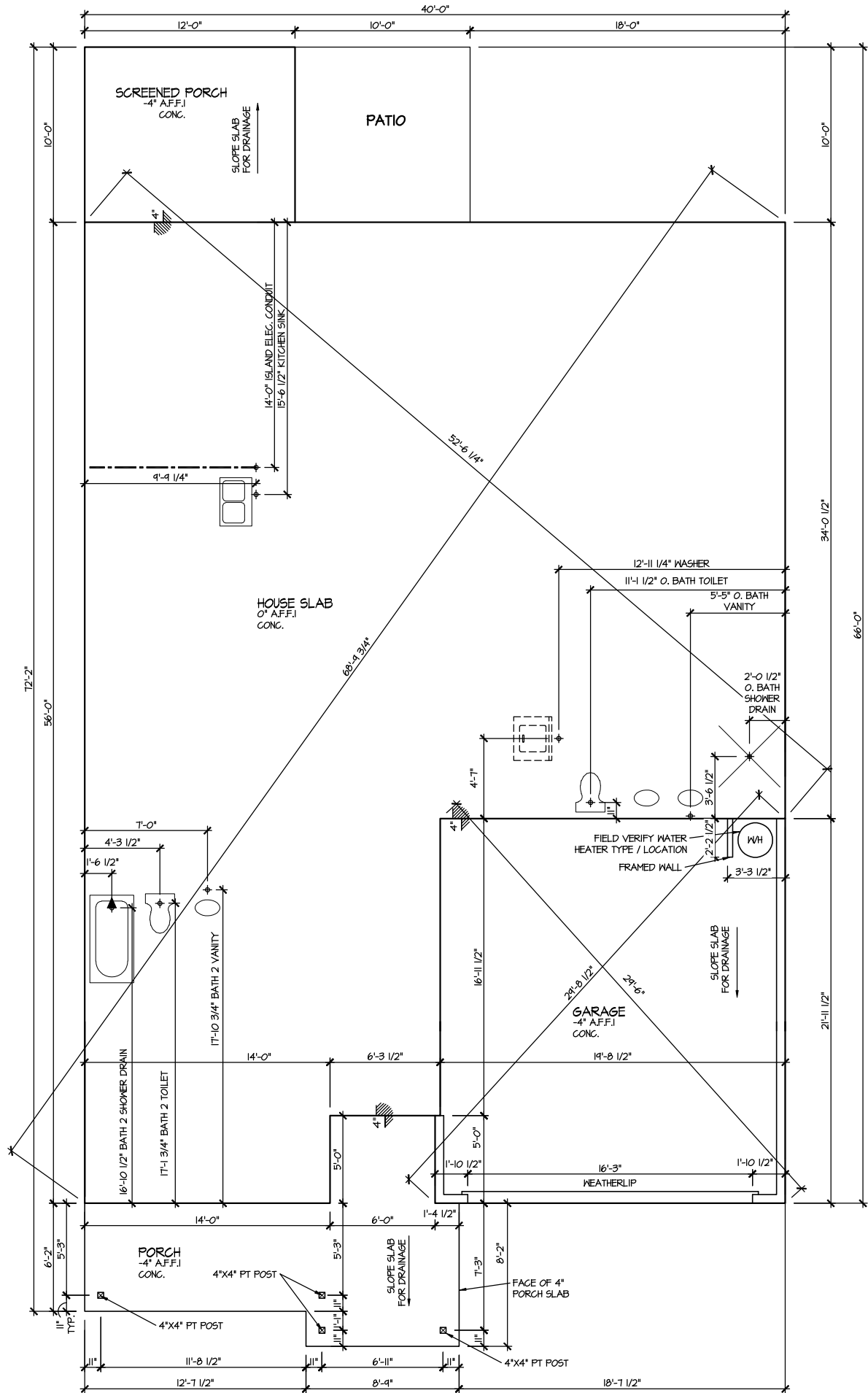
DRAWN BY:	ITS
DATE:	02/21/2025
PLAN NO.	1777

DRB  
HOMES

HOUSE NAME:  
COOPER 3  
DRAWING TITLE  
ROOF PLAN

SHEET No.  
A.3





ELEVATION 9  
SLAB PLAN

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

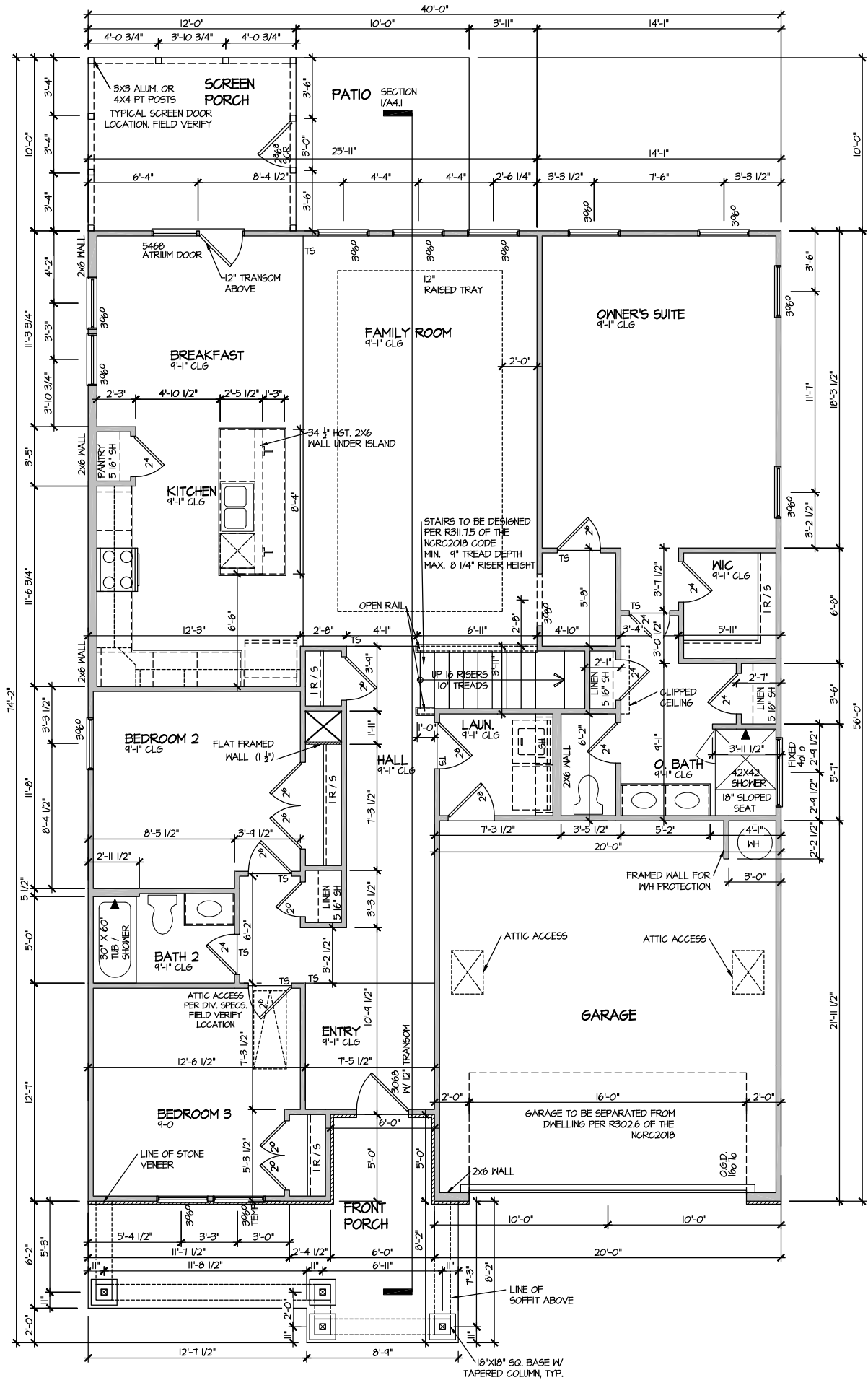
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REVISION	DATE	DATE	UPDATED DATE
4-RALE	02-24-2022		06-17-2024

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



HOUSE NAME:  
COOPER 3  
DRAWING TITLE  
SLAB PLAN

SHEET No.  
A2.1



ELEVATION 9  
FIRST FLOOR PLAN

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

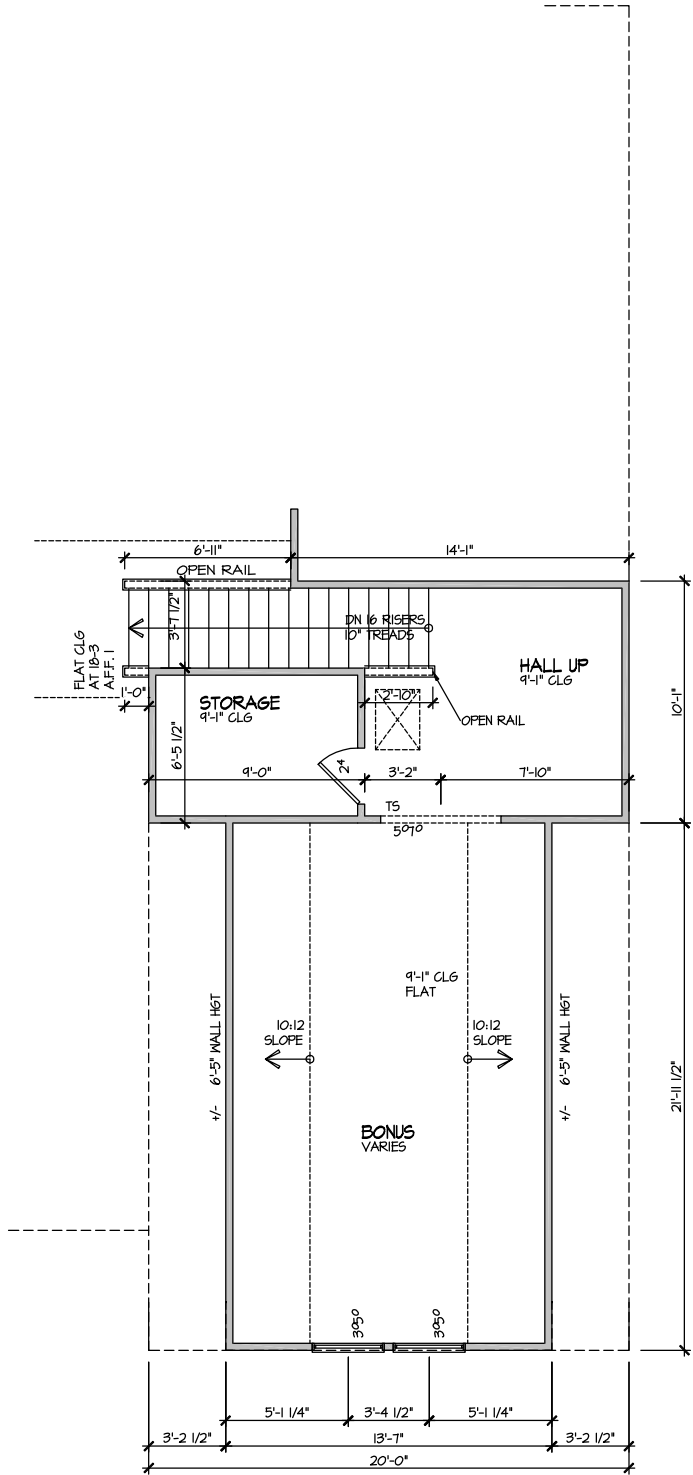
DRAWN BY:	
ITS	
DATE:	
02/21/2025	
PLAN NO.	
1777	



HOUSE NAME:	
COOPER 3	
DRAWING TITLE	
FIRST FLOOR PLAN	

SHEET No.	
A3.1	

MASTER PLAN INFORMATION	
REVISION	DATE
4-RALE	02-24-2022
UPDATED DATE	
06-17-2024	



ELEVATION 9  
SECOND FLOOR PLAN

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

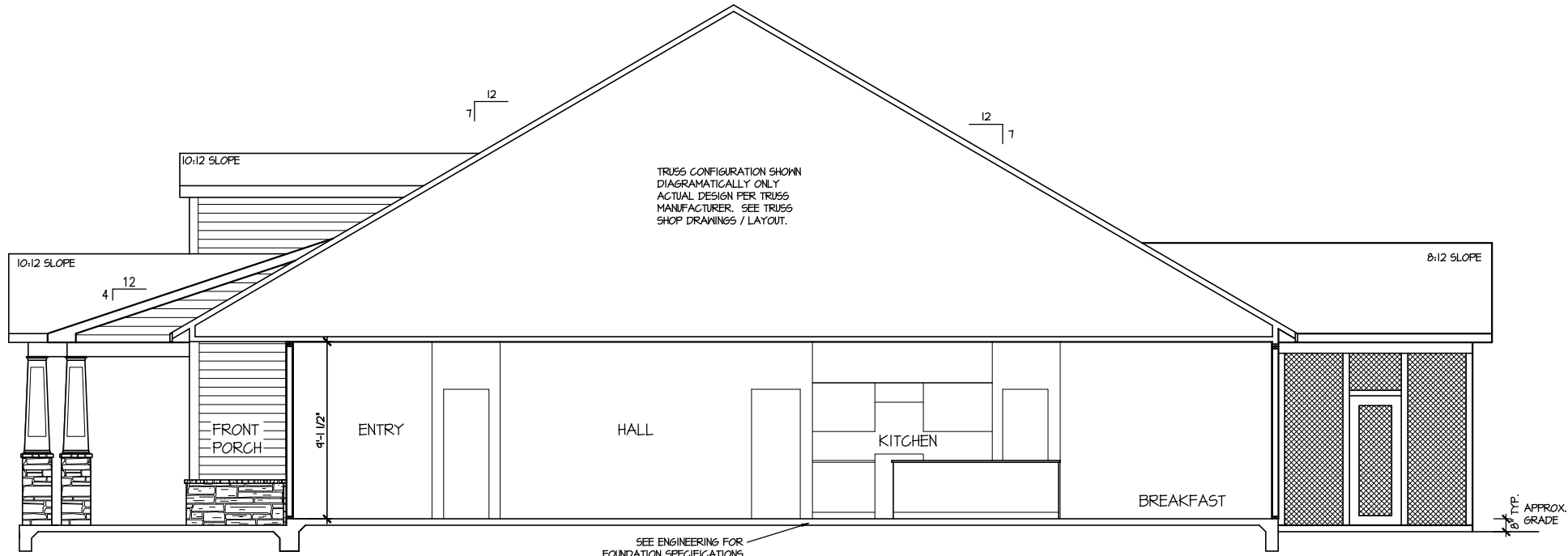
DRAWN BY:  
ITS  
DATE: 02/21/2025  
PLAN NO.  
1777



HOUSE NAME:  
COOPER 3  
DRAWING TITLE  
SECOND FLOOR PLAN

SHEET No.  
A3.2

MASTER PLAN INFORMATION		
REVISION	DATE	UPDATED DATE
4-RALE	02-24-2022	06-17-2024



SECTION I

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

MASTER PLAN INFORMATION			
REVISION	DATE	DATE	UPDATED DATE
4-RALE	02-24-2022		06-17-2024

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

DRB  
HOMES

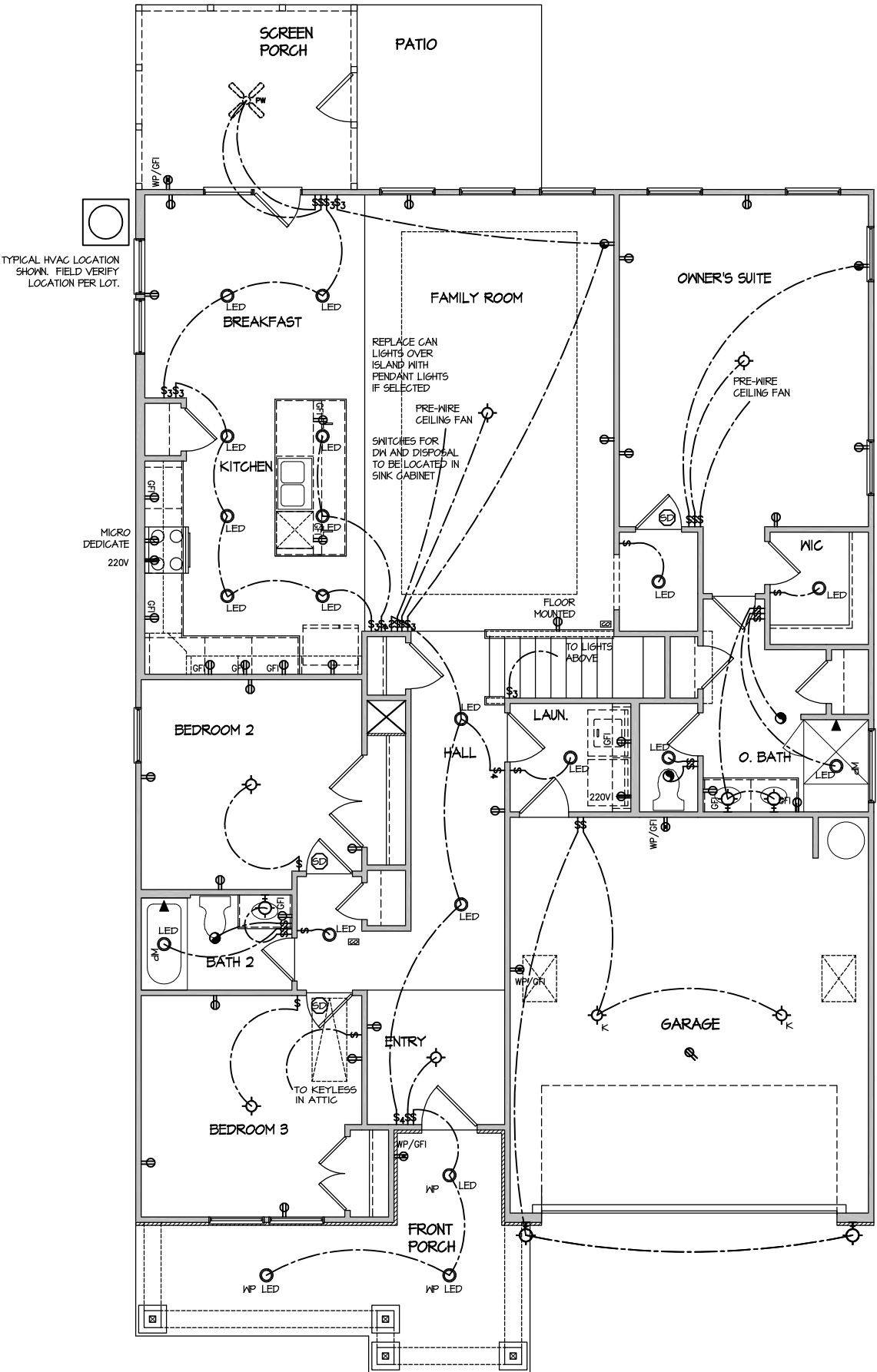
HOUSE NAME:  
COOPER 3

DRAWING TITLE  
BUILDING SECTION

SHEET No.  
A4.1

ELECTRICAL LEGEND	
	SINGLE POLE SWITCH
	THREE WAY SWITCH
	FOUR WAY SWITCH
	DUPLEX AFCI RECEPTACLE
	DUPLEX AFCI RECEPTACLE - BOTTOM HALF SWITCHED
	DUPLEX AFCI RECEPTACLE - FLOOR MOUNTED
	RECEPTACLE - 220V
	DUPLEX AFCI RECEPTACLE - GFI
	DUPLEX AFCI RECEPTACLE - WATERPROOF GFI
	SMOKE DETECTOR - WIRED IN SERIES
	EXHAUST FAN MOTOR
	CO DETECTOR
	DOOR CHIME
	LIGHT FIXTURE - WALL MOUNTED
	LIGHT FIXTURE - CEILING MOUNTED
	LIGHT FIXTURE - RECESSED CAN
	LIGHT FIXTURE - LED SURFACE MOUNTED
	FULLCHAIN LAMPHOLDER
	KEYLESS LAMPHOLDER

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



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

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



HOUSE NAME:		COOPER 3
DRAWING TITLE		FIRST FLOOR ELECTRICAL

SHEET No.		11
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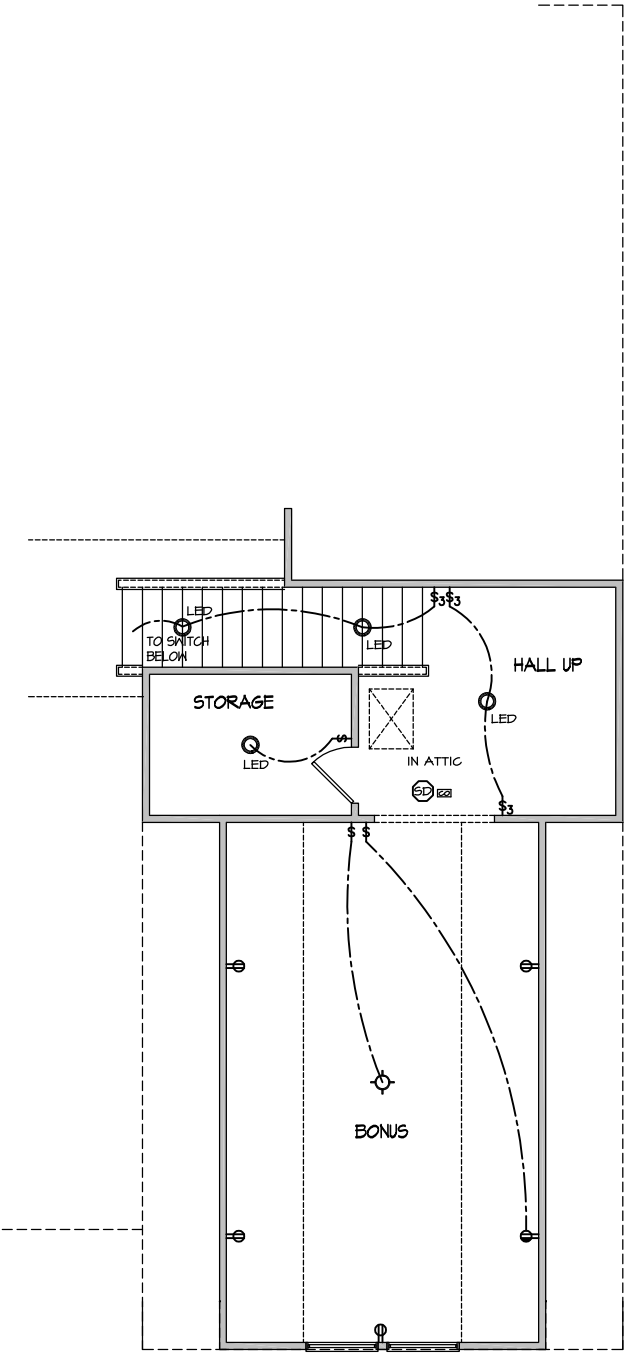
MASTER PLAN INFORMATION	
REVISION	DATE
4-RALE	02-24-2022

UPDATED DATE		06-17-2024
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ELECTRICAL LEGEND

- Ⓢ SINGLE POLE SWITCH
- Ⓢ<sub>3</sub> THREE WAY SWITCH
- Ⓢ<sub>4</sub> FOUR WAY SWITCH
- Ⓢ= DUPLEX AFCI RECEPTACLE
- Ⓢ= DUPLEX AFCI RECEPTACLE - BOTTOM HALF SWITCHED
- Ⓢ= DUPLEX AFCI RECEPTACLE - FLOOR MOUNTED
- 220V Ⓢ= RECEPTACLE - 220V
- GF Ⓢ= DUPLEX AFCI RECEPTACLE - GFI
- WP/GFI Ⓢ= DUPLEX AFCI RECEPTACLE - WATERPROOF GFI
- Ⓢ(SD) SMOKE DETECTOR - WIRED IN SERIES
- Ⓢ EXHAUST FAN MOTOR
- Ⓢ CO DETECTOR
- Ⓢ DOOR CHIME
- Ⓢ(H) LIGHT FIXTURE - WALL MOUNTED
- Ⓢ(C) LIGHT FIXTURE - CEILING MOUNTED
- Ⓢ(R) LIGHT FIXTURE - RECESSED CAN
- Ⓢ(LED) LIGHT FIXTURE - LED SURFACE MOUNTED
- Ⓢ(P) PULLCHAIN LAMPHOLDER
- Ⓢ(K) KEYLESS LAMPHOLDER

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"

MASTER PLAN INFORMATION			UPDATED DATE
REVISION	DATE		
4-RALE	02-24-2022		06-17-2024

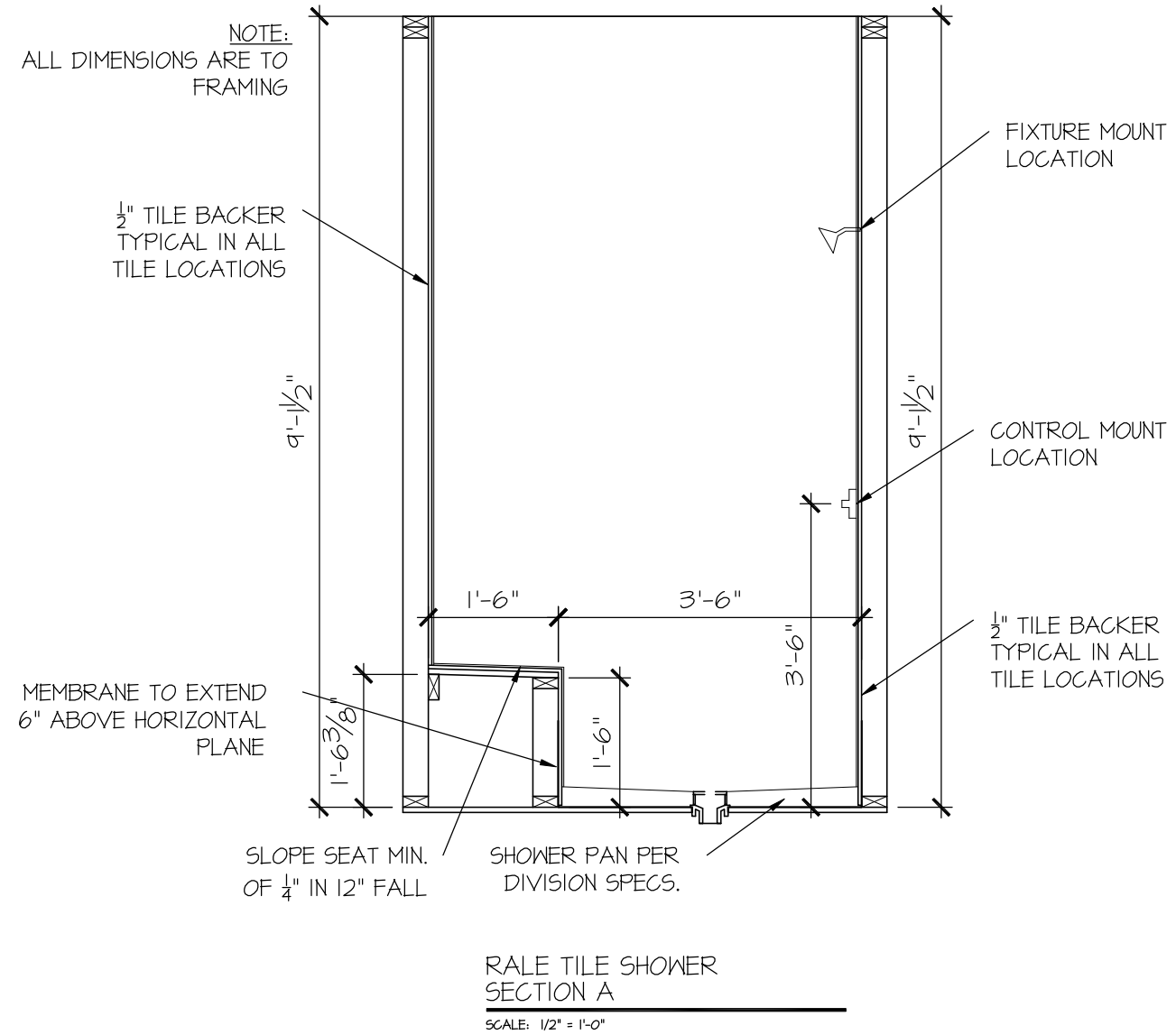
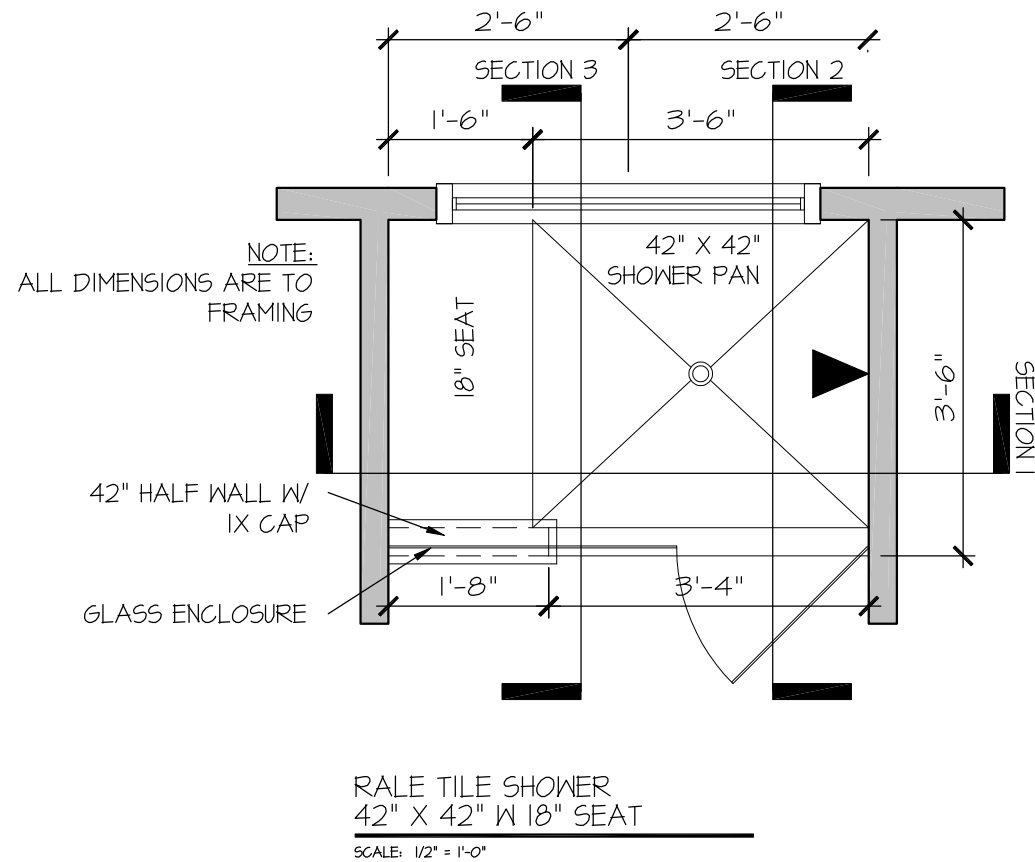
DRAWN BY:	ITS
DATE:	02/21/2025
PLAN NO.	1777

DRB  
HOMES

HOUSE NAME:	COOPER 3
DRAWING TITLE	SECOND FLOOR ELECTRICAL

SHEET No.	1.2
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FILE: RALE TILE SHOWER DETAIL 8-2022.dwg DATE: 09-19-2022



CONSULTANT LOGO

SEAL

DRAWN BY:  
L. BEAVERS  
DATE: 9/1/22  
PLAN NO.  
11 X 17 SCALE  
24 X 36 SCALE

**DRB**  
HOMES

HOUSE NAME:

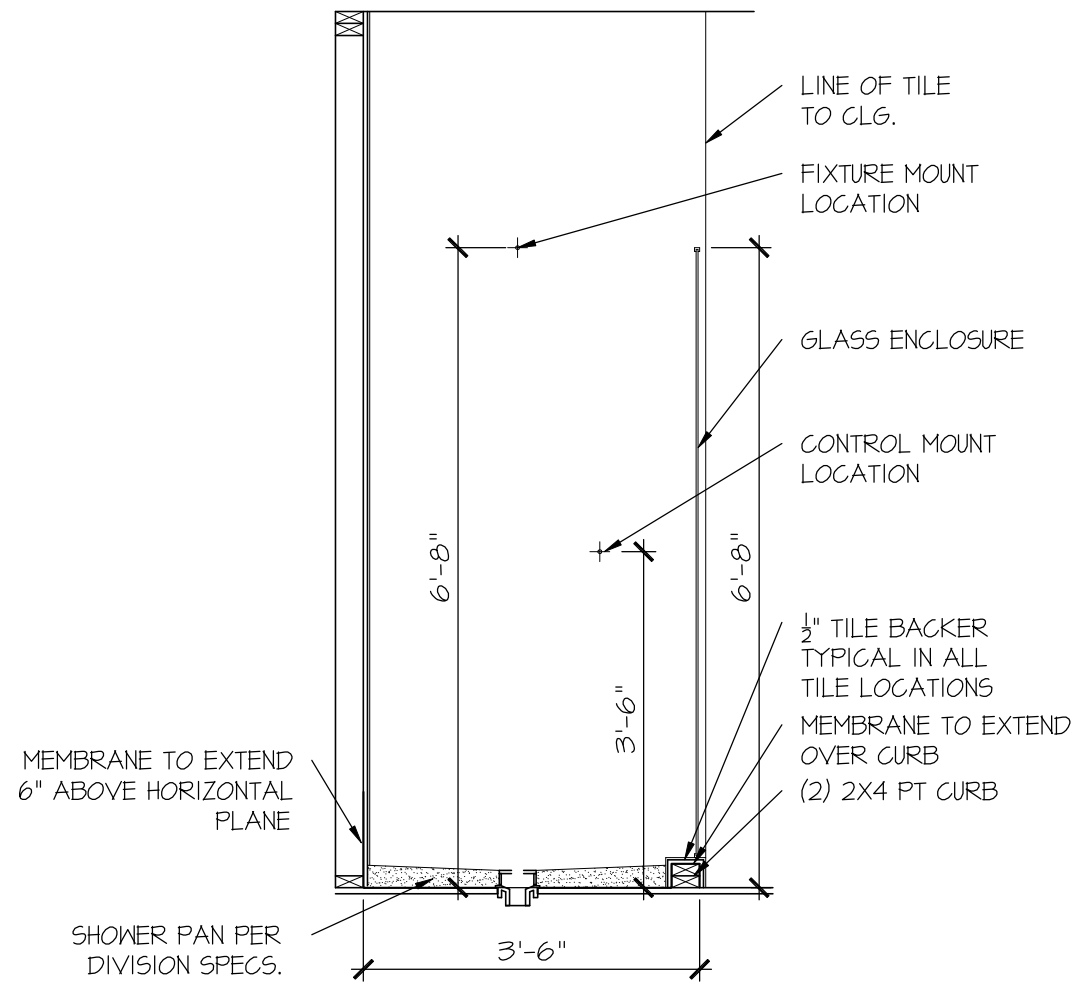
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RALE TILE SHOWER DETAIL

SHEET No.

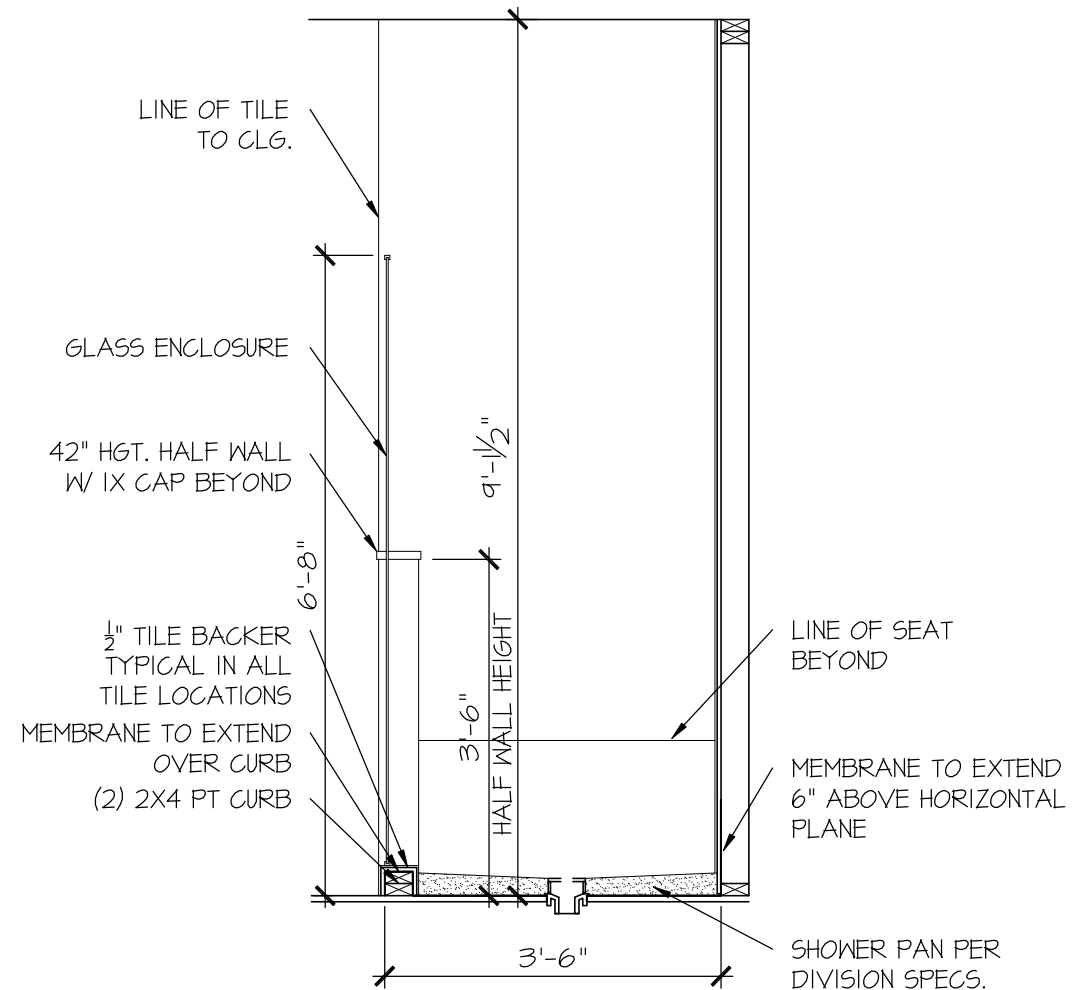
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FILE: RALE TILE SHOWER DETAIL 8-2022.dwg DATE: 09-19-2022



RALE TILE SHOWER  
SECTION B

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



RALE TILE SHOWER  
SECTION C

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

CONSULTANT LOGO

SEAL

DRAWN BY:  
L. BEAVERS  
DATE: 9/1/22  
PLAN NO.  
11 X 17 SCALE  
24 X 36 SCALE

**DRB**  
HOMES

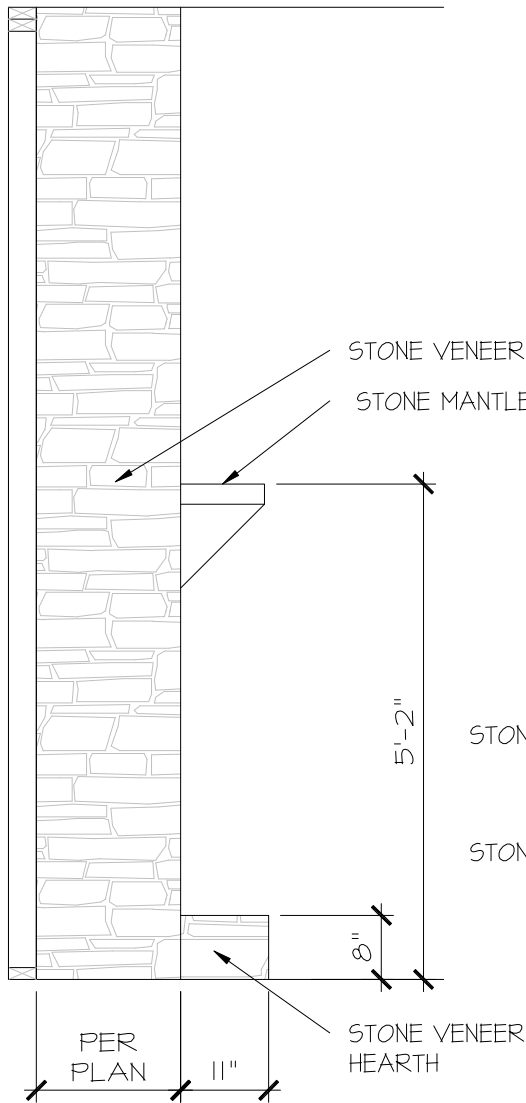
HOUSE NAME:  
DRAWING TITLE  
RALE TILE SHOWER DETAIL

SHEET No.

01.12

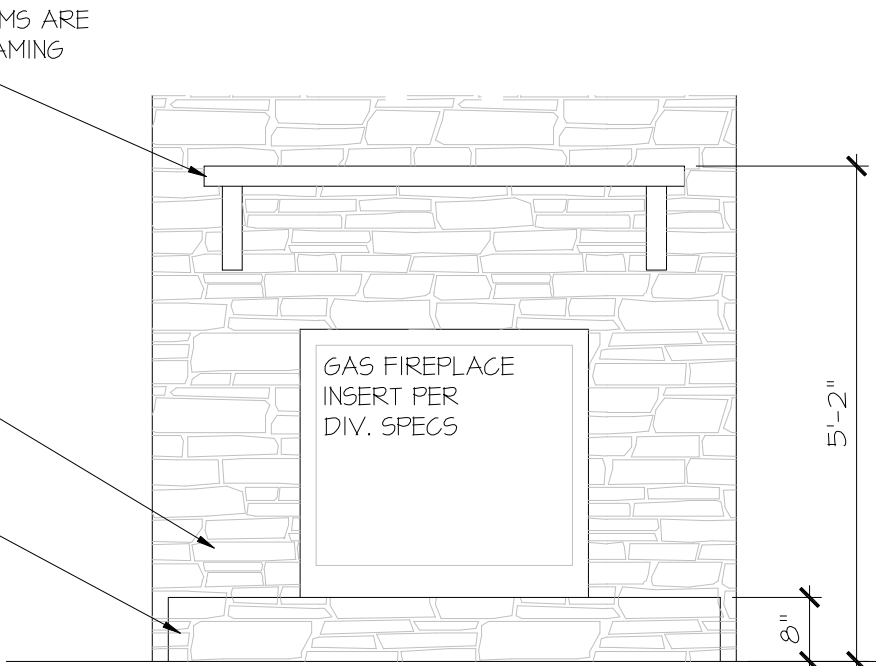
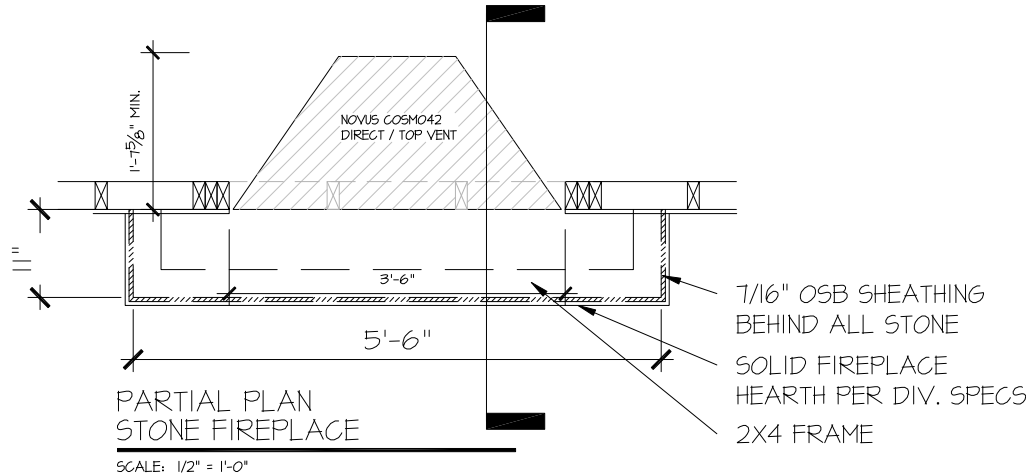


ALL DIMENSIONS  
ARE TO FRAMING



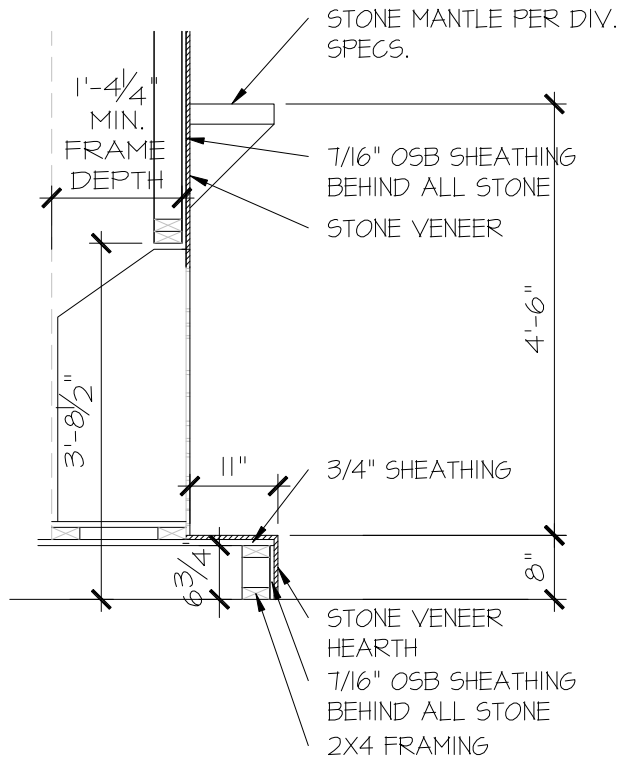
PARTIAL ELEVATION  
STONE FIREPLACE

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



PARTIAL ELEVATION  
STONE FIREPLACE

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



PARTIAL SECTION  
STONE FIREPLACE

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 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 GRADE WALLS SHALL BE 2x6 @ 16" O.C. SFF OR SYP, "STUD" GRADE OR BETTER.

• CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, UNO.:

f <sub>c</sub> =	4,000 psi:	.....	FOUNDATION WALLS
	2,500 psi:	.....	FOOTINGS & INTERIOR SLABS ON GRADE
	3,000 psi:	.....	GARAGE & EXTERIOR SLABS ON GRADE
f <sub>y</sub> =	60,000 psi		

• 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, UNO.
- LARGER OPENINGS SHALL BE PER PLAN.

• ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT.

• ALL FOOTINGS SHALL BEAR AT LEAST 12" BELOW FINISH GRADE.

• FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.

• PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP.

- JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-0" O.C. (MAXIMUM)
- JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (1:1 RATIO), WITH A MAXIMUM OF 1:1.5 RATIO
- CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL SLABS

• CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 WITH A MIN. COMPRESSIVE STRENGTH OF 1400 psi (F<sub>m</sub>=1500 psi). MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 & 530.1.

• CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORCEMENT (OR EQUAL) - 4 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 SUBTERRANEAN TERMITES. METHOD AND TYPE OF TREATMENT TO BE DETERMINED BY PEST CONTROL COMPANY.

GENERAL STRUCTURAL NOTES

GENERAL FRAMING

• DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.

• WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.

• DESIGN LOADS:

ROOF	DEAD = 7 PSF T.C., 10 PSF B.C. LIVE = 16 PSF LOAD DURATION FACTOR = 1.25
FLOOR	LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (1-JOISTS & SOLID SAMN) 10 PSF T.C., 5 PSF B.C. (TRUSSES) (ADD'L 10 PSF @ TILE)
LATERAL	120 MPH, EXPOSURE B. SEISMIC A/B.
SOIL	2,000 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)

• 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(1) FOR ALL CONNECTIONS, TYP. UNO.

• EXT. & INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. SFF OR SYP "STUD" GRADE LUMBER, OR BETTER, UNO.

- 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., UNO.)

- HEADERS IN NON-LOAD BEARING WALLS SHALL BE: (1)2x4/6 FLAT @ OPENINGS UP TO 4'; (2)2x4/6 FLAT UP TO 8'.

• ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).

• ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING:

- 'LSL' - Fb=2325 psi; Fv=310 psi; E=1.55x10<sup>6</sup> psi
- 'LVL' - Fb=2600 psi; Fv=285 psi; E=2.0x10<sup>6</sup> psi
- 'PSL' - Fb=2400 psi; Fv=240 psi; E=2.0x10<sup>6</sup> 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 EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 8" O/C OR 2 ROWS 1/4"x3/8" SIMPSON SDS SCREWS (OR 3/8" 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 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 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"x0.131" NAILS @ 24" O.C. (MIN.), EACH PLY.

• PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND/BEARING. BLOCKING TO MATCH POST ABOVE.

• FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS WITH P.A.F.'s (HILTI' X-CF PINS OR EQUAL) @ 16" O.C. STAGGERED, OR 1/2" DIA. BOLTS @ 48" O.C. STAGGERED.

• ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BCS2-2/4 CAP & ABW44Z BASE, UNO.

FLOOR FRAMING

ROOF FRAMING

• 1-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES MARBLE FLOORS - CONTACT M&K FOR MARBLE FLOOR DESIGNS)

• AT 1-JOIST FLOORS, PROVIDE 1 1/8" MIN. OSB RIM BOARD.

• METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, UNO.

• FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR' 24" O.C, EXPOSURE 1 (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W/ GLUE AND

- 2 1/2" x 0.131" NAILS @ 6" o.c. @ PANEL EDGES & @ 12" o.c. FIELD.
- 2 3/8" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES & @ 8" O.C. FIELD.
- 2 3/8" x 0.118" 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.

• BAY WINDOWS & SHED ROOFS (UP TO 6' SPAN) CAN BE 2x4 OR 2x6 RAFTERS & CEILING JOISTS @ 16/24" O.C.

• FASTEN EACH ROOF TRUSS TO TOP PLATE W/ SIMPSON H2.5T CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) H2.5T CLIPS AT 2-PLY GIRDER TRUSSES, (3) H2.5T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS.

• METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, UNO.

• ERECT AND INSTALL ROOF TRUSSES PER WTC&A & TPI'S BCSI 1-08 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."

• SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (MAX 7' SPAN) W/ 2x4 LEDGER FASTENED TO:

- RIM BOARD W/ (2) 3"x0.131" NAILS @ 16" O.C. MAX. (1-JOISTS)
- TRUSS VERTICALS W/ (3) 3"x0.131" NAILS @ 14.2" O.C. MAX. (FLOOR TRUSSES)

• ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE 1 (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS

- W/ 2 1/2" x 0.131" NAILS @ 6" o.c. @ PANEL EDGES & @ 12" O.C. FIELD.
- W/ 2 3/8" x 0.120" NAILS @ 4" o.c. @ PANEL EDGES & @ 8" O.C. FIELD.
- W/ 2 3/8" x 0.113" NAILS @ 3" o.c. @ PANEL EDGES & @ 6" O.C. FIELD.

HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION
	SIMPSON HTT4 HOLD-DOWN @ (9/8" DIA. ANCHOR)
	SIMPSON MSTC666 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM UNO.) -OR- MSTC666B ALTERNATE
	SIMPSON STHD14/STHD14RJ

\* UTILIZE THE 56TB24 ANCHOR BOLT @ ALL MONOSLAB & INTERIOR RAISED SLAB (I.E. THICKENED SLABS, FOOTINGS) CONDITIONS. MINIMUM 24" MIN. FOOTING THICKNESS REQUIRED. EPOXY-SET ALTERNATE FOR MONOSLAB & INTERIOR RAISED SLAB CONDITIONS ONLY; UTILIZE SIMPSON SET EPOXY SYSTEM TO FASTEN THREADED ROD INTO CONCRETE FOUNDATION. PROVIDE 10" (FOR 5/8" DIA) OR 15" (FOR 7/8" DIA) MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF. INSTRUCTIONS. MINIMUM 16" FOOTING THICKNESS REQ'D. DO NOT LOCATE ANCHORS WITHIN 1 3/4" OF EDGE OF CONCRETE.

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

EXT. WALL SHEATHING SPECIFICATION

3" O.C. EDGE NAILING

NOTES

INDICATES EXTENT OF INT. OSB SHEARNWALL OR 3" O.C. OSB SHEARNWALL.

INDICATES HOLDDOWN BELOW

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

**120 MPH WIND IN 2018 NC5BC:RC**

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

THE DESIGN WAS COMPLETED PER 2015 IBC (SECTION 1609) & ASCE 7-10, AS PERMITTED BY R301.1.3 OF THE 2018 NC5BC:RC, OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.12 COMPLY. ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NC5BC:RC SECTION R802.11.1.1. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.54 R802.11.

FASTEN SHEATHING W/ 2 3/8"x0.113" NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE PANEL FIELD. TYP, UNO.

HORIZONTAL BLOCKING OF EXT. WALL/SHEAR WALL PANEL EDGES IS NOT REQUIRED BY THIS DESIGN EXCEPT FOR THOSE AREAS SPECIFICALLY NOTED.

ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.

ALT. STAPLE CONNECTION SPEC: 1 1/2" 16 GA STAPLES (1/8" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C. IN FIELD.

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 1/4" 16 GA STAPLES (1/8" 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.

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.

SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING. IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.

DESIGN ASSUMES 16" O.C. MAX. STUD SPACING, UNO.

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)

ADDITIONAL NOTES FOR TRUSS & 1-JOIST MANUFACTURER

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

A. ROOF TRUSSES:

- 1/4" DEAD LOAD

B. FLOOR TRUSSES, ATTIC TRUSSES, & 1-JOISTS:

- 1/8" DEAD LOAD

C. FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO FLOOR FRAMING BY OTHERS:

- LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAD LOAD. (NOT DIFFERENTIAL DEFLECTION)

ENGINEERED BEAM MATERIAL SCHEDULE

BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)3/4"x11 1/8" - F	3/2"x11 1/8" - F	(3)3/4"x11 1/8" - F	(2)2x12 + (1) 3/8"x11 1/4" STEEL FLITCH PLATES - F	W12x14 - F
002	(3)3/4"x11 1/8" - F	5/4"x11 1/8" - F	(4)3/4"x11 1/8" - F	(2)2x12 + (1) 3/8"x11 1/4" STEEL FLITCH PLATES - F	W12x14 - F
003	(2)3/4"x11 1/8" - F	3/2"x11 1/8" - F	(3)3/4"x11 1/8" - F	(2)2x12 + (1) 3/8"x11 1/4" STEEL FLITCH PLATES - F	W12x14 - F
004	(2)3/4"x11 1/4" - D	3/2"x11 1/4" - D	(2)3/4"x11 1/8" - D	(2)2x10 + (1) 3/8"x11 1/4" STEEL FLITCH PLATES - D	W8x10 - 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 SUCCESSION 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.

LEGEND

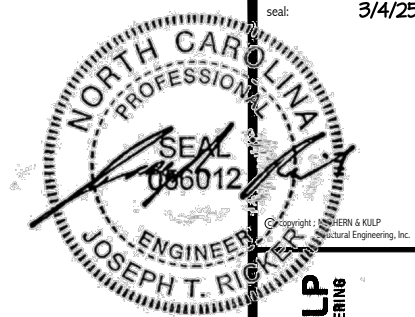
- INTERIOR BEARING WALL
- BEARING WALL ABOVE
- BEAM / HEADER
- INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- METAL HANGER
- INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

NON-BEARING HEADER SCHEDULE

SPAN	2x4 NON-BEARING PARTITION WALL	2x6 NON-BEARING PARTITION WALL
UP TO 3'-0"	(1)2x4 FLAT	(1)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.)



seal: 3/4/25

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M&K project number:

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project mgr:

JTR

drawn by:

KJN

issue date:

02-28-25



STRUCTURAL NOTES

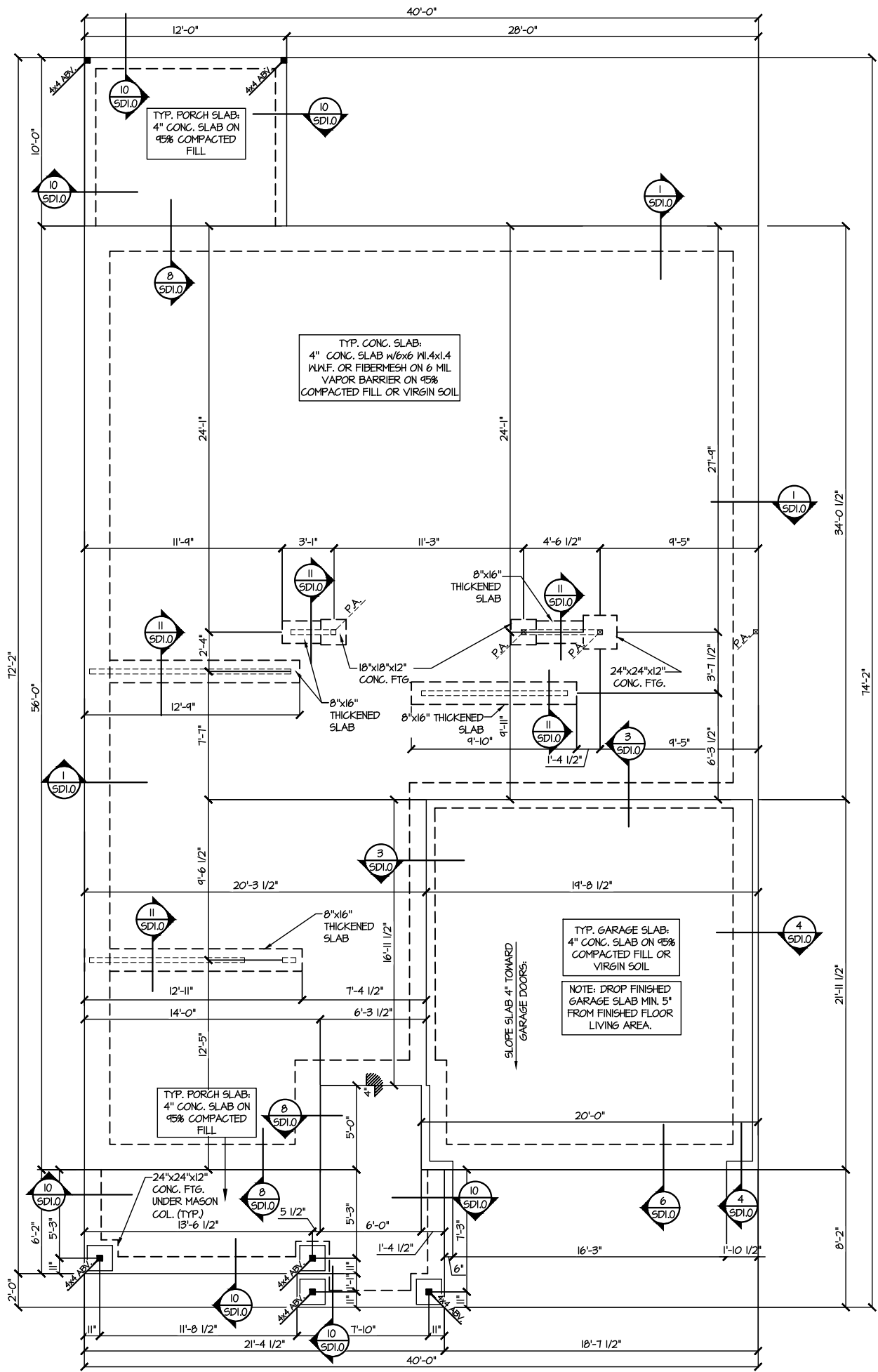
FARM AT NEIL'S CREEK

LOT 39 - COOPER 9

RALEIGH, NC

sheet:

**S0.0**



1 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
- METAL HANGER
- INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

REFER TO SO.0 FOR  
TYPICAL STRUCTURAL NOTES  
& SCHEDULES

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SEAL  
086012  
ENGINEER  
JOSEPH T. RICKER

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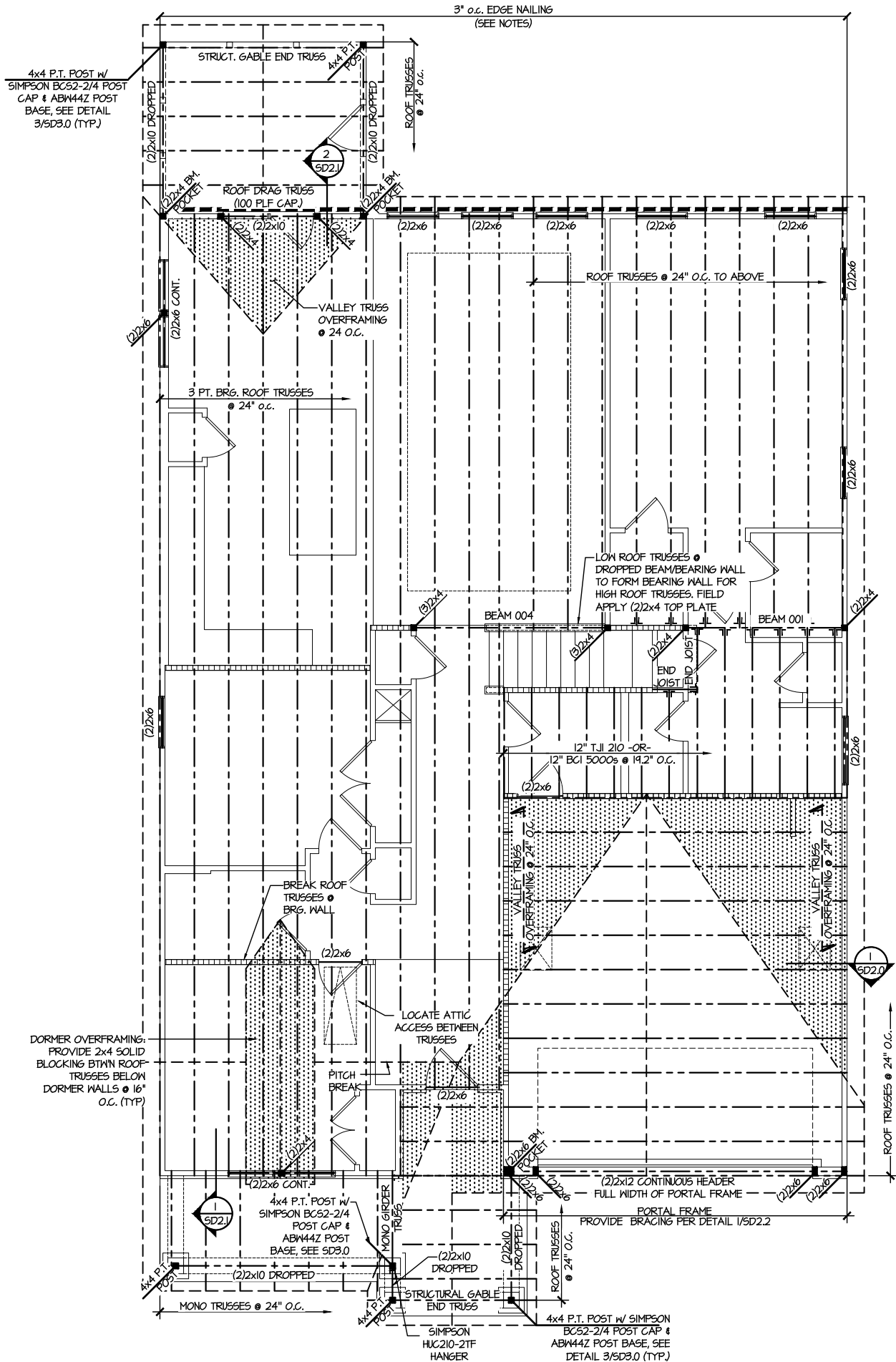
REVISIONS:  
date: initial:

**DRB HOMES**

FOUNDATION PLANS  
FARM AT NEILS CREEK  
LOT 39 - COOPER 9  
RALEIGH, NC

sheet:  
**S1.0**





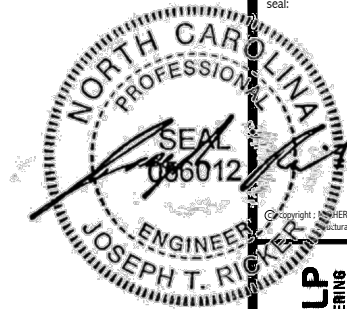
1 2ND FLOOR/LOW ROOF FRAMING PLAN  
SCALE: 1/8"=1'-0"

LEGEND

- INTERIOR BEARING WALL
- BEARING WALL ABOVE
- BEAM / HEADER
- INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- 1L METAL HANGER
- INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

REFER TO 50.0 FOR  
TYPICAL STRUCTURAL NOTES  
& SCHEDULES

ENGINEERED BEAM MATERIAL SCHEDULE					
BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)3/4"x11 3/8" - F	3 1/2"x11 3/8" - F	(3)3/4"x11 3/8" - F	(2)2x12 + (1) 3/8"x11 3/4" STEEL FLITCH PLATES - F	W12x14 - F
002	(3)3/4"x11 3/8" - F	5 1/4"x11 3/8" - F	(4)3/4"x11 3/8" - F	(2)2x12 + (1) 3/8"x11 3/4" STEEL FLITCH PLATES - F	W12x14 - F
003	(2)3/4"x11 3/8" - F	3 1/2"x11 3/8" - F	(3)3/4"x11 3/8" - F	(2)2x12 + (1) 3/8"x11 3/4" STEEL FLITCH PLATES - F	W12x14 - F
004	(2)3/4"x11 1/4" - D	3 1/2"x11 1/4" - D	(2)3/4"x11 3/8" - D	(2)2x10 + (1) 3/8"x11 3/4" STEEL FLITCH PLATES - D	W8x10 - D
<div>BEAM NOTATION:<ul style="list-style-type: none"><li>"F" INDICATES FLUSH BEAM</li><li>"FT" INDICATES FLUSH TOP BEAM</li><li>"FB" INDICATES FLUSH BOTTOM BEAM</li><li>"D" INDICATES DROPPED BEAM</li><li>"H" INDICATES DROPPED OPENING HEADER</li></ul></div> <div><ul style="list-style-type: none"><li>REFER TO DETAIL D/SD2.0 FOR TYPICAL FLITCH BEAM CONNECTIONS</li><li>REFER TO DETAIL E/SD2.0 FOR TYPICAL STEEL BEAM CONNECTIONS</li><li>FOR FLUSH TOP BEAMS PROVIDE 2x STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION w/ (2) 3"x0.120" NAILS @ 8" O.C.</li><li>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.</li></ul></div>					



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ROOF FRAMING PLANS

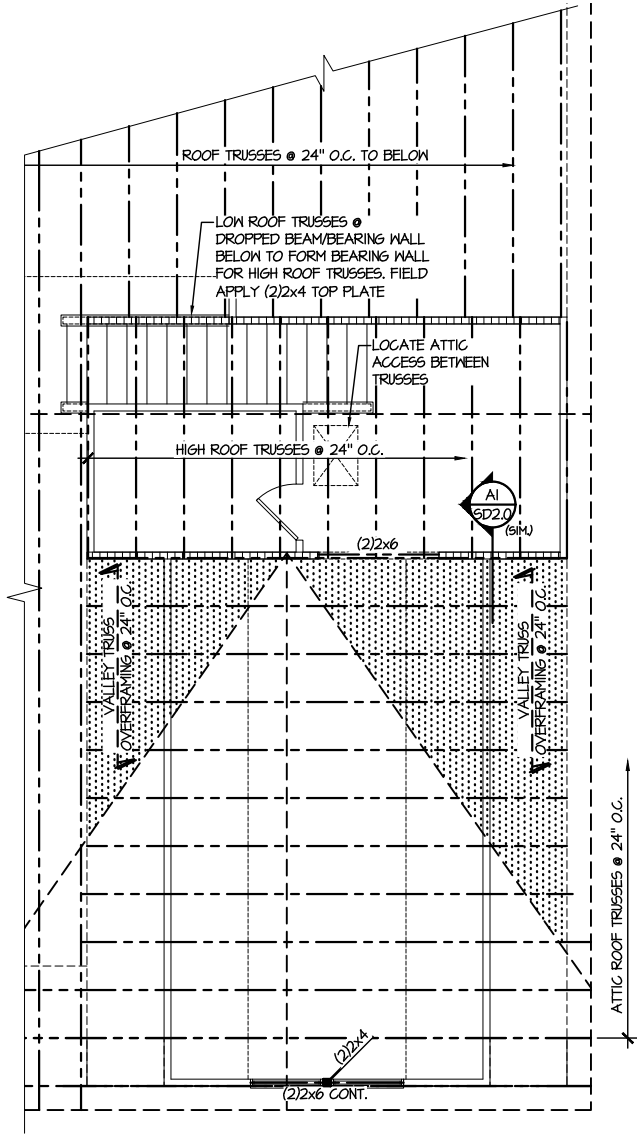
FARM AT NEILS CREEK

LOT 39 - COOPER 9

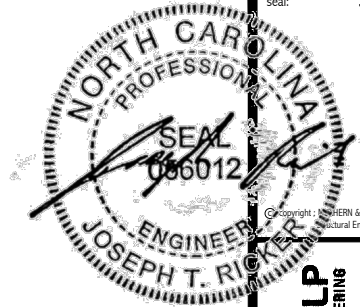
RALEIGH, NC

sheet:

S2.0



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



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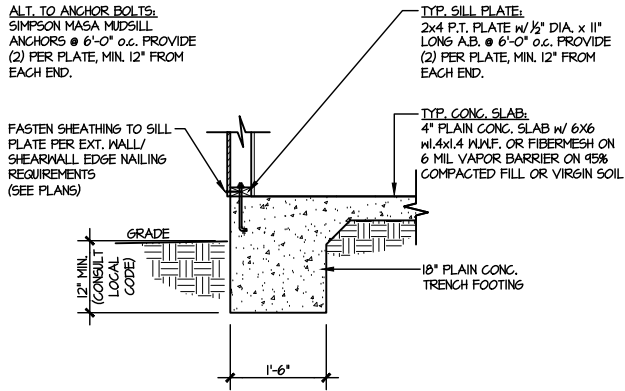
ROOF FRAMING PLANS  
FARM AT NEIL'S CREEK  
LOT 39 - COOPER 9  
RALEIGH, NC

**LEGEND**

- [dashed line] INTERIOR BEARING WALL
- [dashed line] BEARING WALL ABOVE
- [solid line] BEAM / HEADER
- [dashed line] INDICATES SHEAR WALL & EXTENT
- [stippled area] 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.

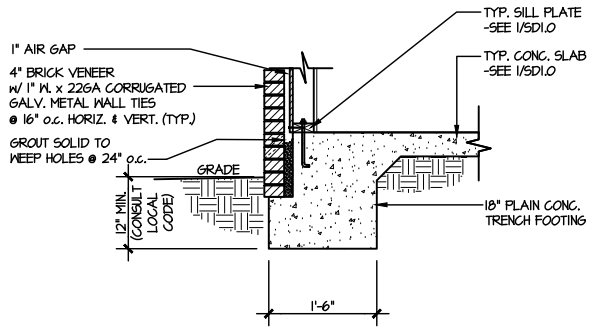
REFER TO S.O. FOR  
TYPICAL STRUCTURAL NOTES  
& SCHEDULES

sheet:  
**S3.0**



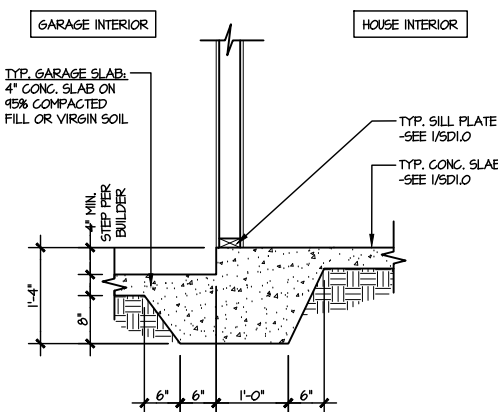
**1** TYPICAL SLAB ON GRADE  
PERIMETER FOOTING

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



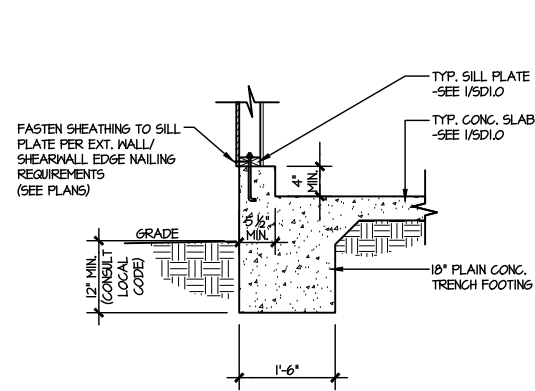
**2** TYPICAL SLAB ON GRADE  
PERIMETER FOOTING

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



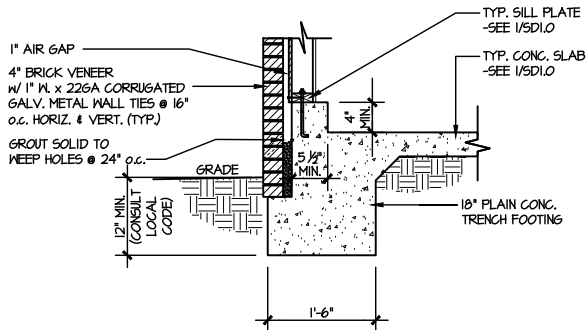
**3** TYPICAL MONOLITHIC INTERIOR  
GARAGE FOOTING

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



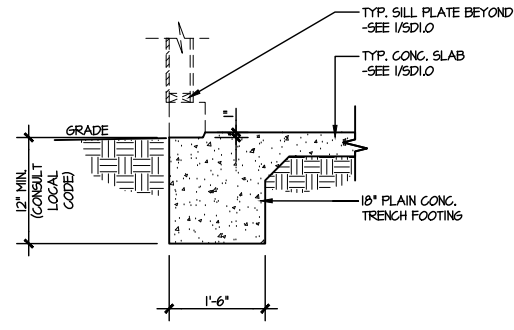
**4** TYPICAL SLAB ON GRADE GARAGE  
PERIMETER FOOTING

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



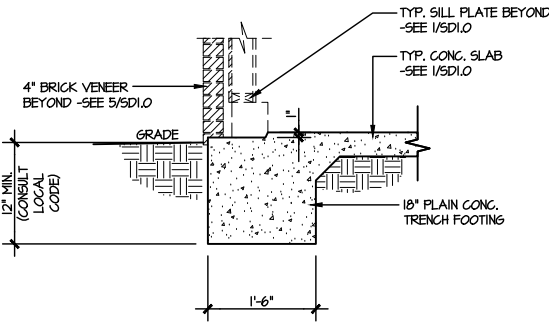
**5** TYPICAL SLAB ON GRADE GARAGE  
PERIMETER FOOTING

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



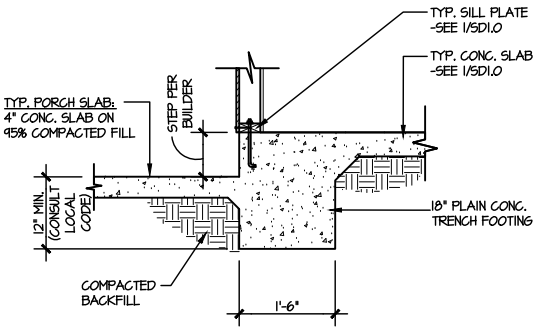
**6** TYPICAL SLAB ON GRADE GARAGE  
ENTRY @ PERIMETER FOOTING

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



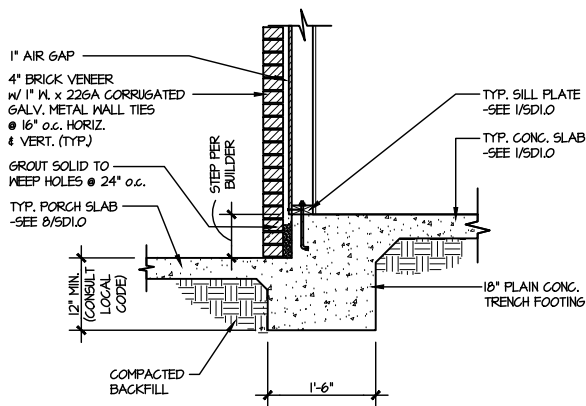
**7** TYPICAL SLAB ON GRADE GARAGE  
ENTRY @ PERIMETER FOOTING

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



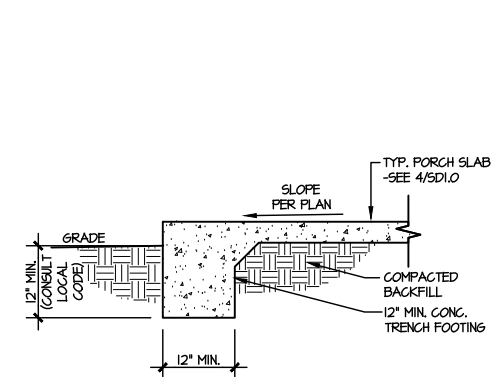
**8** TYPICAL SLAB ON GRADE PERIMETER  
FOOTING @ PORCH/PATIO

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



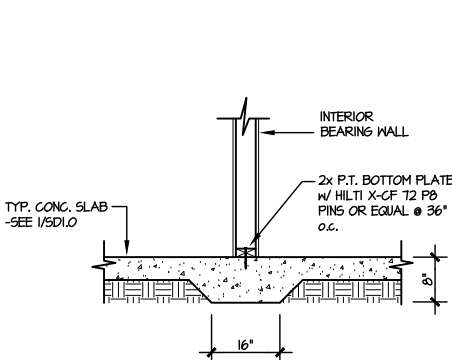
**9** TYPICAL SLAB ON GRADE PERIMETER  
FOOTING @ PORCH/PATIO

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



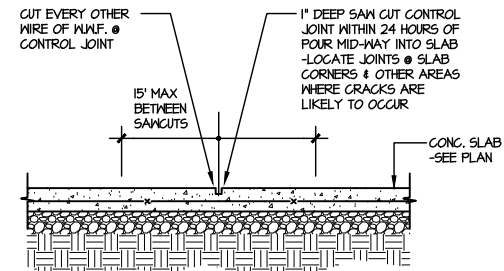
**10** TYPICAL FOOTING @ PORCH SLAB

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



**11** TYPICAL THICKENED SLAB @  
INTERIOR BEARING WALL

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



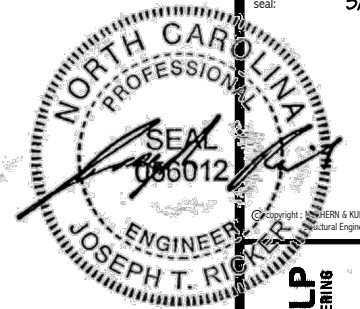
**A** TYPICAL CONTROL JOINT

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

LOCATE @ 15'-0" o.c. MAX.  
OR CORNERS WHERE CRACKS  
LIKELY TO DEVELOP

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.



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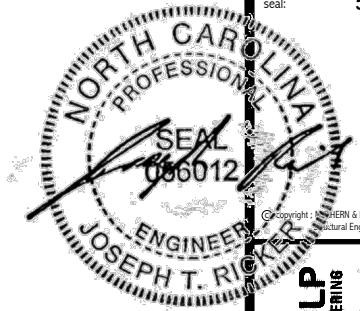
project mgr: JTR  
drawn by: KJN  
issue date: 02-28-25

REVISIONS:  
date: initial:

**DRB**  
**HOMES**

FOUNDATION DETAILS  
FARM AT NEILS CREEK  
LOT 39 - COOPER 9  
RALEIGH, NC

sheet:  
**SD1.0**



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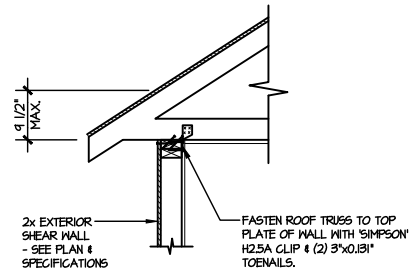
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drawn by: **KJN**  
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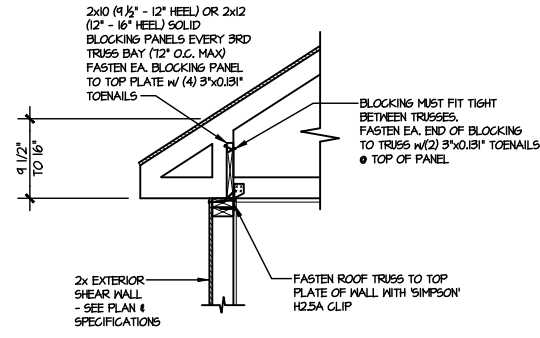
**DRB HOMES**

FRAMING DETAILS  
**FARM AT NEILS CREEK**  
LOT 39 - COOPER 9  
RALEIGH, NC

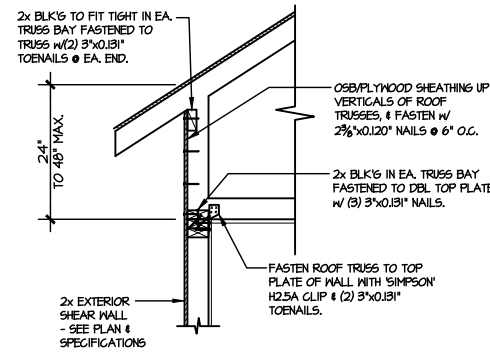
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**SD2.0**



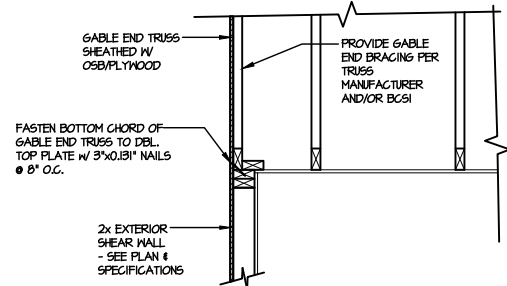
**TYPICAL SHEAR  
TRANSFER DETAIL @ ROOF**  
**A1** SCALE: 3/8"=1'-0" HEEL HEIGHT LESS THAN 4 1/2'  
NO BLOCKING REQ'D



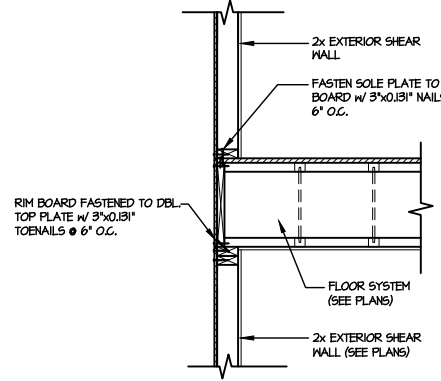
**TYPICAL SHEAR  
TRANSFER DETAIL @ ROOF**  
**A2** SCALE: 3/8"=1'-0" HEEL HEIGHT BETWEEN 4 1/2' - 16'  
BLOCKING REQ'D



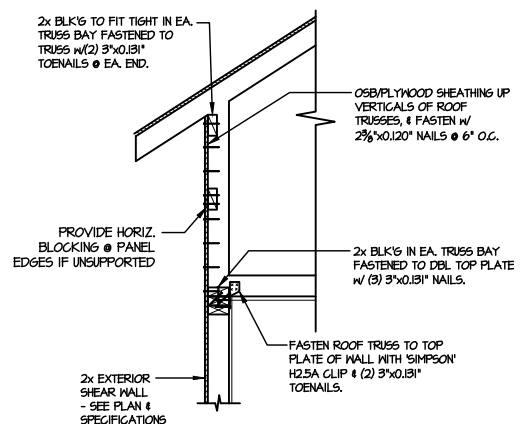
**TYPICAL SHEAR TRANSFER  
DETAIL @ RAISED HEEL TRUSS**  
**A3** SCALE: 3/8"=1'-0" HEEL HEIGHT UP TO 48' MAX.



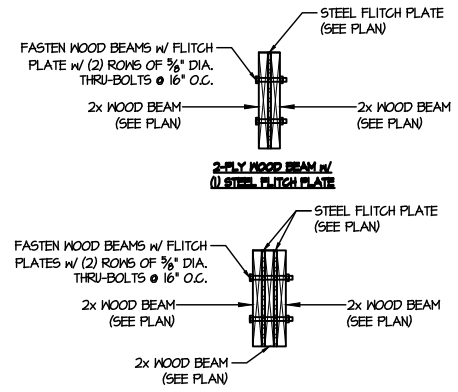
**TYPICAL GABLE END DETAIL**  
**B** SCALE: 3/8"=1'-0"



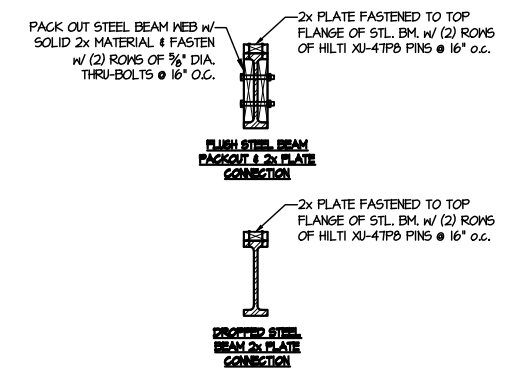
**TYPICAL SHEAR TRANSFER DETAIL  
BETWEEN FLOORS @ EXTERIOR WALL**  
**C** SCALE: 3/8"=1'-0"



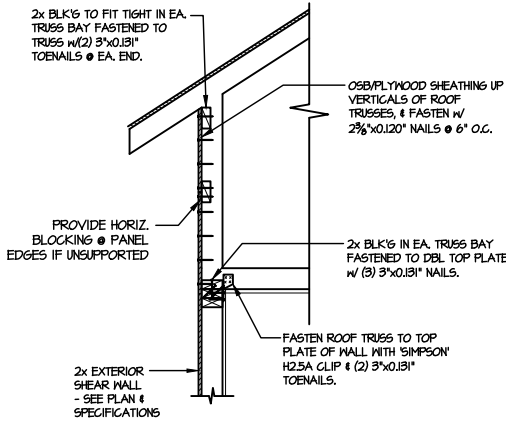
**TYPICAL SHEAR TRANSFER  
DETAIL @ RAISED HEEL TRUSS**  
**D** SCALE: 3/8"=1'-0" HEEL HEIGHT GREATER THAN 48'



**TYPICAL FLITCH BEAM CONNECTION DETAIL**  
**D** SCALE: 3/4"=1'-0"



**TYPICAL STEEL BEAM CONNECTION DETAIL**  
**E** SCALE: 3/4"=1'-0"



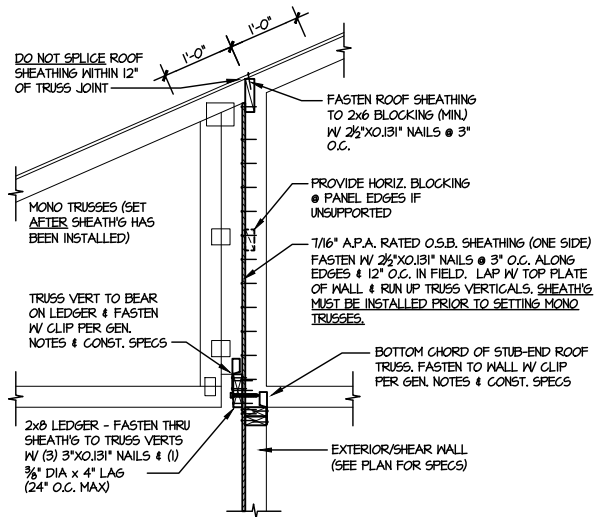
**TYPICAL SHEAR TRANSFER  
DETAIL @ RAISED HEEL TRUSS**  
**I** SCALE: 3/8"=1'-0" HEEL HEIGHT GREATER THAN 48'

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

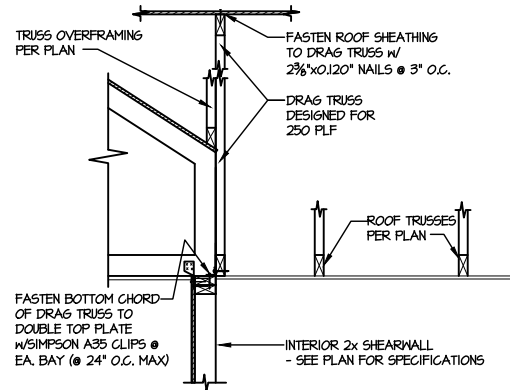
NUMBERED DETAILS ARE PLAN SPECIFIC AND ARE ONLY REQUIRED WHERE SPECIFICALLY INDICATED ("CUT") ON THE PLANS.



FILE: RJH - Neils Creek - Lot 39 - Structural.s DATE: 3/4/2025 10:02 AM



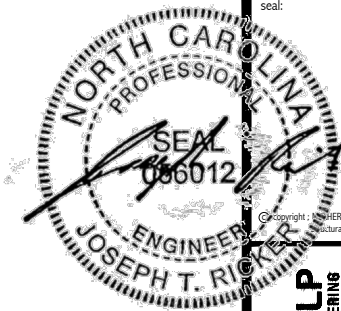
**1** SHEAR TRANSFER DETAIL @  
BREAK IN TRUSSES OVER SHEAR WALL  
SCALE: 3/4"=1'-0" - 23-04  
3/8"=1'-0" - 11x7



**2** SHEAR TRANSFER DETAIL  
AT INTERIOR SHEARWALL BELOW  
SCALE: 3/4"=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.



seal: 3/4/25



M&K project number:  
126-22076

project mgr: JTR  
drawn by: KJN  
issue date: 02-28-25

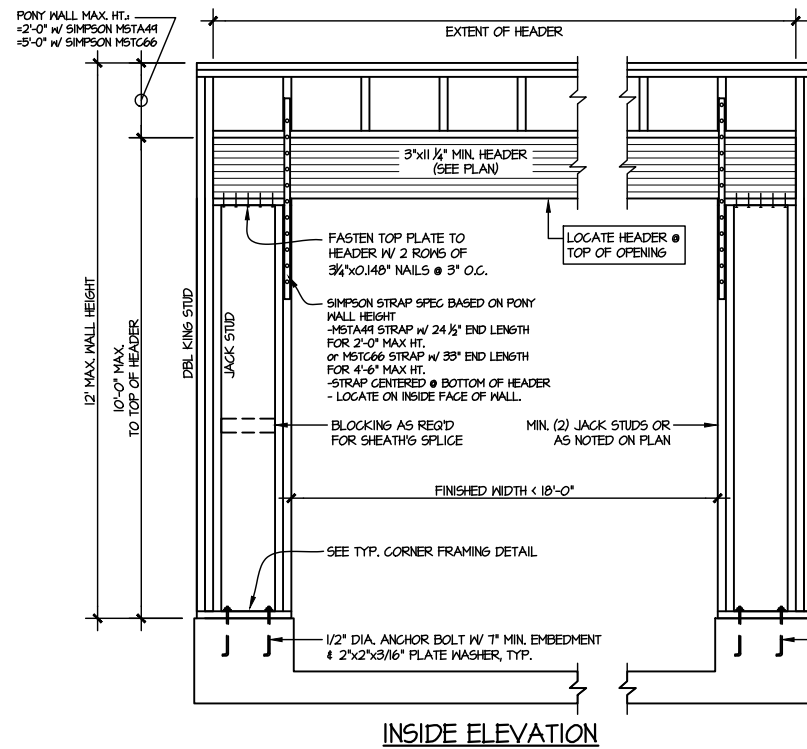
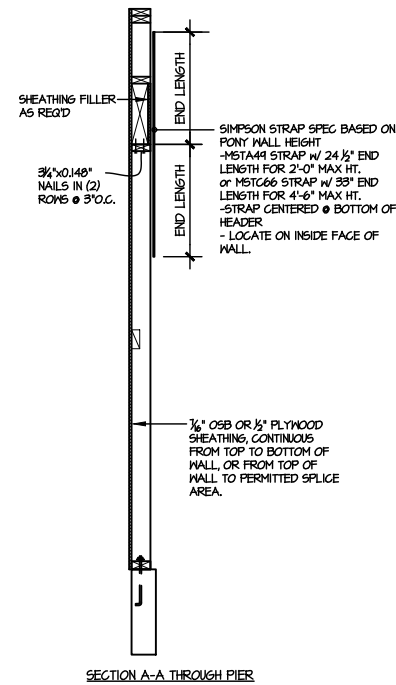
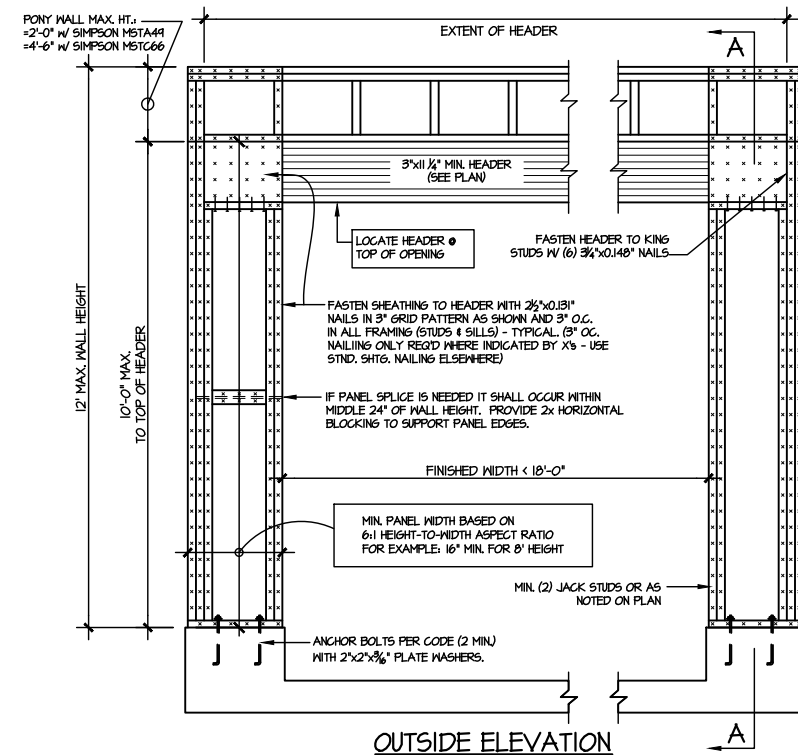
REVISIONS:  
date: initial:



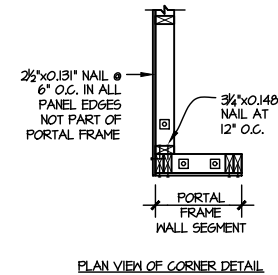
FRAMING DETAILS  
FARM AT NEIL'S CREEK  
LOT 39 - COOPER 9  
RALEIGH, NC

sheet:  
**SD2.1**





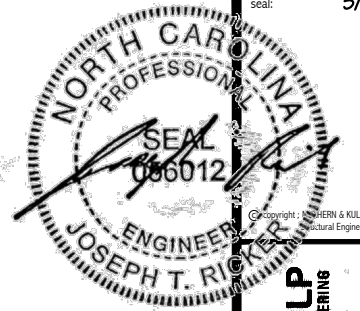
NOTE: ALL SHEATHABLE AREAS OF  
EXTERIOR WALL SHALL BE FULLY  
SHEATHED WITH 1/2" PLYWOOD OR 1/2" OSB



ALTERNATIVES TO 1/2" DIA. ANCHOR BOLT:  
1) 1/2" DIA. x 6" LONG SIMPSON TITEN HD  
2) 1/2" DIA. TREADED ROD EPOXY SET  
w/ 4 1/2" EMBED. (MIN) UTILIZING HILTI HY200  
EPOXY ANCHORING SYSTEM (OR EQUAL)

TWO SIDED GARAGE PORTAL FRAME BRACING  
ELEVATION ON CONCRETE STEM

SCALE: N.T.S.



**MULHERN+KULP**  
RESIDENTIAL STRUCTURAL ENGINEERING  
300 Riverside Ave., Building 4 - Asheville, PA 18002  
P 212-546-8801 • mulhern+kulp.com  
NC LICENSE #C-3825



M&K project number:  
126-22076

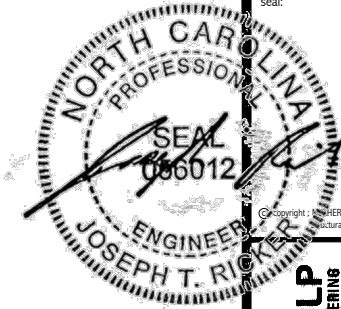
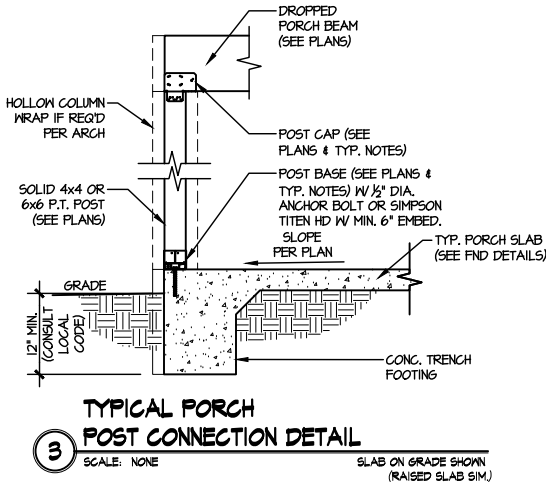
project mgr: JTR  
drawn by: KJN  
issue date: 02-28-25

REVISIONS:  
date: initial:

**DRB**  
**HOMES**

FRAMING DETAILS  
FARM AT NEIL'S CREEK  
LOT 39 - COOPER 9  
RALEIGH, NC

sheet:  
**SD2.2**



seal: 3/4/25



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M&K project number:  
126-22076

project mgr: JTR  
drawn by: KJN  
issue date: 02-28-25

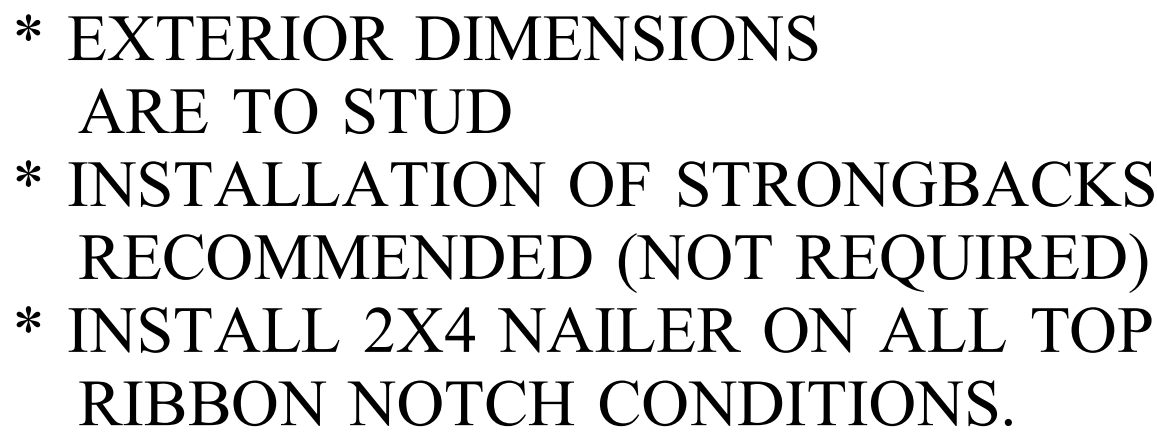
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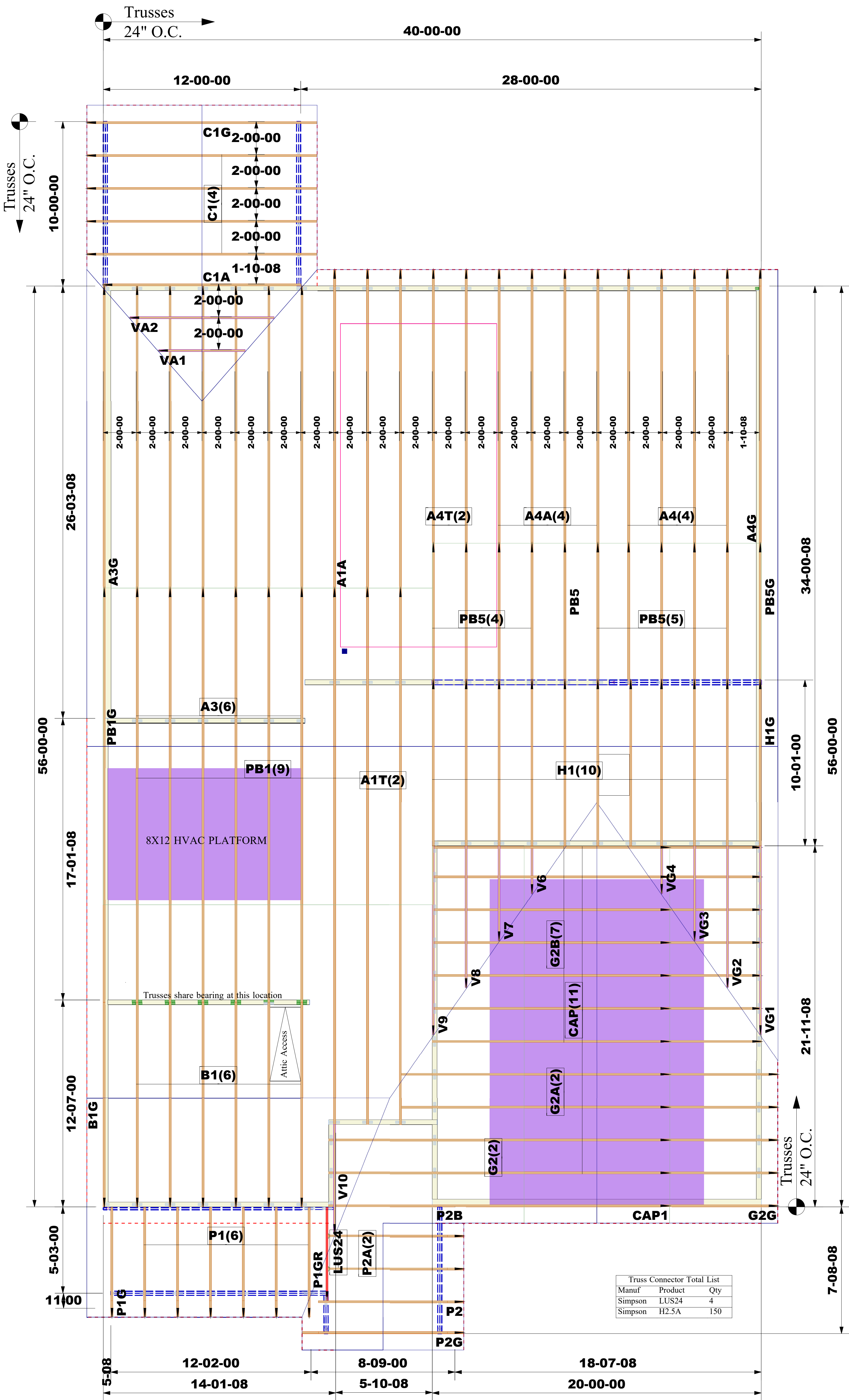
FRAMING DETAILS  
FARM AT NEIL'S CREEK  
LOT 39 - COOPER 9  
RALEIGH, NC

sheet:  
**SD3.0**

**40-00-00**



ROOF TRUSS LAYOUT  
SCALE: NTS



The Farm at Neill's Creek (NC)(RAL) Lot 00.0039 Phase  
Model-1776-1-Cooper 3  
Garage Right side w/ 2' Extension  
Opt Bonus Room w/ Fam Tray  
Opt Screen Porch/Cover Porch

ELEV. 9

\*EXTERIOR DIMENSIONS ARE TO STUD.  
\*TRUSS 2' O.C. U.N.O  
\*INSTALL SIMPSON H2.5A HURRICANE ANCHORS AT EACH BEARING POINT

Job #:

2502-2489

Designer:

Sayan Roy

Sales Rep:

Robbie Zarobinski

**WARNING:**  
CONVENTIONAL FRAMING, ERECTION AND/OR PERMANENT BRACING IS NOT THE RESPONSIBILITY OF THE TRUSS DESIGNER, PLATE MANUFACTURER, OR THE TRUSS MANUFACTURER. PERSONS ERECTING TRUSSES ARE CAUTIONED TO SEEK PROFESSIONAL ADVICE REGARDING THE ERECTION BRACING WHICH IS ALWAYS REQUIRED TO PREVENT TOPPLING AND DOMINATING DURING ERECTION, AND PERMANENT BRACING WHICH MAY BE REQUIRED IN SPECIFIC APPLICATIONS. SEE "BRACING WOOD TRUSSES COMMENTARY AND RECOMMENDATIONS" (BCSI 1) FOR FURTHER INFORMATION.  
TRUSSES SHALL BE INSTALLED IN A STRAIGHT AND PLUMB POSITION WHERE NO SHEATHING IS APPLIED DIRECTLY TO TOP AND/OR BOTTOM CHORDS, THEY SHALL BE BRACED AS SPECIFIED ON THE ENGINEERED DESIGN. TRUSSES SHALL BE HANDLED WITH REASONABLE CARE DURING ERECTION TO PREVENT DAMAGE OR PERSONAL INJURY.

**NOTE:**  
IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PER REACTIONS SHOWN ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.  
THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN WTCA 1-1995 "DESIGN RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTION DESIGN, DRAWINGS, DOCUMENTS INCLUDING THE INSTALLATION, AND BRACING OF TRUSSES MANUFACTURED BY THIS COMPANY.

Customer: DRB Raleigh

Job Name: The Farm at Neill's Creek

Lot #: Lot 00.0039

Model Name: Cooper 3



Third-Party Quality Assurance Licensee  
TPI Plant W974

Structural, LLC  
201 Poplar Avenue  
Thurmont, MD 21788  
Phone: 301-271-7591

