MERLOT-RALE

RALEIGH- LOT 00.0074 THE FARM AT NEILL'S CREEK

(MODEL# 1995)

ELEVATION 4- GL

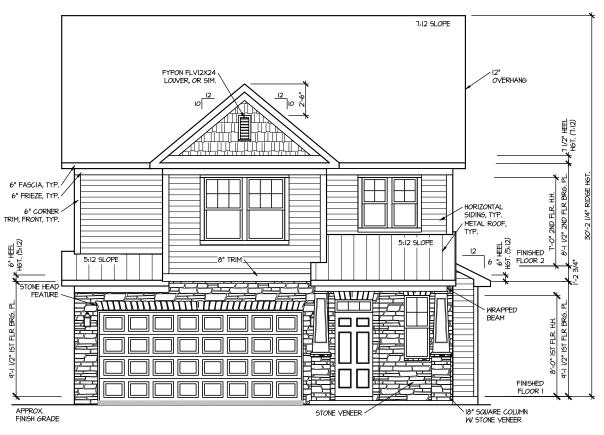
273 Winding Creek Drive

<u>INDEX</u>	

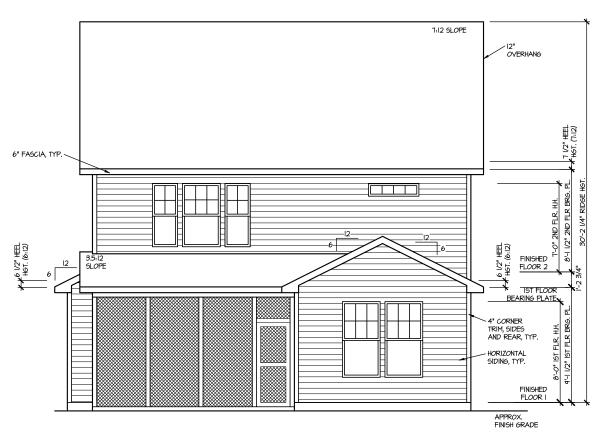


AREA CALCULATIONS		COVERED /	
ELEVATION 4	HEATED	UNHEATED	UNCOVERED
FIRST FLOOR	872 SF		
GARAGE		416 SF	
FRONT PORCH — ELEVATION 4		53 SF	
SECOND FLOOR	1154 SF		
OPTIONS			
4' BREAKFAST EXTENSION	56 SF		
SCREENED PORCH W/ BREAKFAST EXTENSION		128 SF	
FRONT PORCH — ELEVATION 4		+23 SF	
SIDE FIREPLACE	+10 SF		
TOTAL	2092 SF	620 SF	
TOTAL	2032 31	020 31	
			+
			+
			+

<u>LOT</u>	<u>SPECIFIC</u>	
1	LOT 00.0074	THE FARM AT NEILL'S CREEK
		MERLOT REV. RALE 2 ELEVATION 4
2	ADDRESS	273 WINDING CREEK DR LILLINGTON, NC 27546
	1	
	1	



FRONT ELEVATION 4 SCALE: 100" = 11-0"



REAR ELEVATION 4

_ot 00.0074.dwg DATE: 2/17/2024 11:24 AM

FRONT & REAR ELEVATIONS

HOUSE NAME:

MERLOT

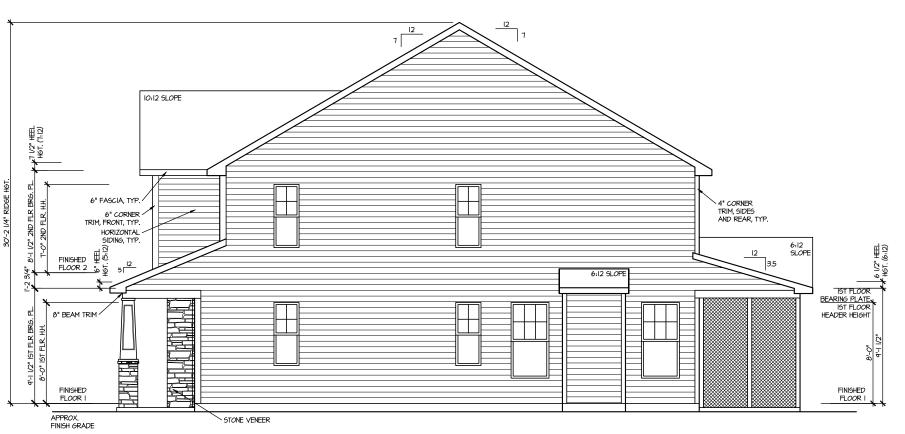
OS DRAWING TITLE

DRAWN BY:

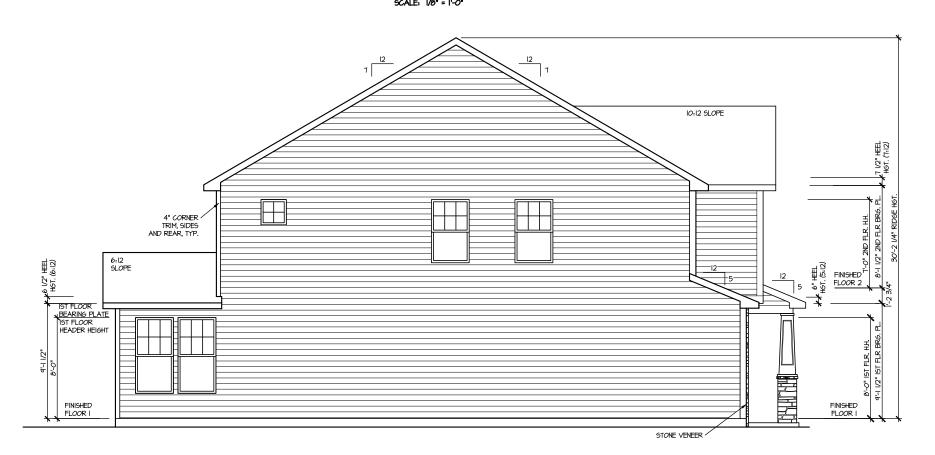
PLAN NO. 1995

DATE: 02/17/2024

SHEET No.



RIGHT ELEVATION 4



LEFT ELEVATION 4

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

-E: Lot 00.0074.dwg DATE: 2/17/2024

DRAWN BY:
ITS
DATE:
02/17/2024
PLAN NO.
1995



RIGHT & LEFT ELEVATIONS

HOUSE NAME:
MERLOT
DRAWING TITLE

SHEET No.

UPPER ROOF VENTILATION CALCULATIONS:

ROOF AREA = 1800 50, FT.

OVERALL REGISTED VANTILATION.

OVERALL REGISTED VANTILATION.

1 10 300 = 0.61 56, FT.

1 10 300 = 4.33 50, FT.

50-80% IN TOP THIRD = 2.17 - 3.46 50, FT. (1 TO 300)

NET FREE AREA OF VENTIED SOFFIT = 5.1 50, IN / LINEAR FT.

NET FREE AREA OF RIDGE VENT = 10 50, IN LINEAR FT.

LOHER YERTING, (BOTTOM 2/3 RDS)

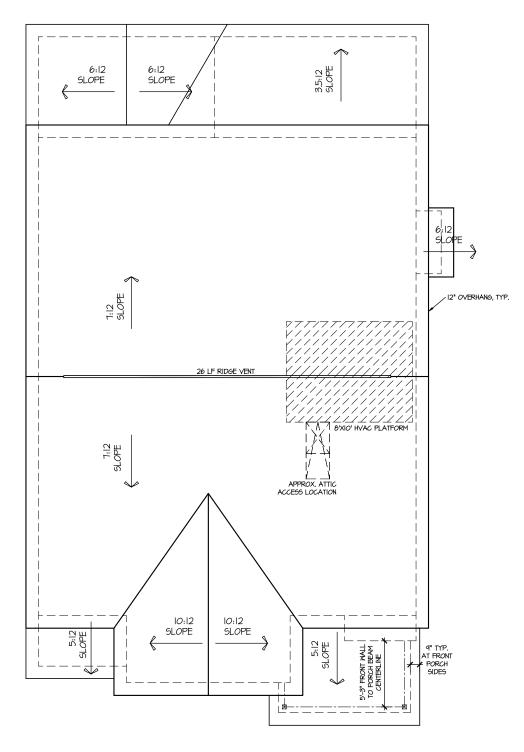
J LINEAR FIELT OF SOFFIT X 5.1 50. IN = 2.26 50. FT.

JEPER YERTING, ICD (1/3 SD)

26 LINEAR FIELF OF RIDGE X IO 50. IN = 3.25 50. FT.

(1 TO 300 ALLOHED)

TOTAL ROOF VENTILATION; 55! 50. FT. > 4.33 50. FT. (ROD)



ROOF PLAN ELEV. 4
SCALE: 1/0"

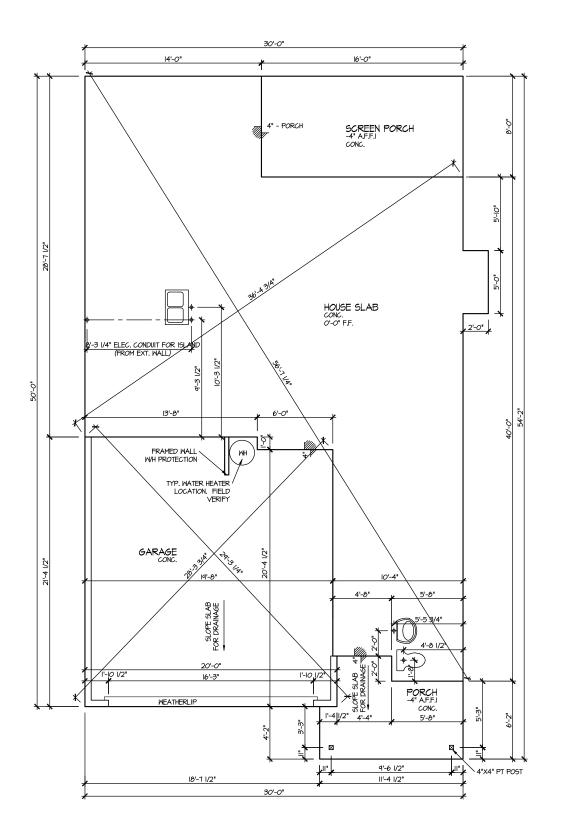
DRAWN BY:

DATE: 02/17/2024 PLAN NO. 1995



HOUSE NAME:
MERLOT
DRAWING TITLE
ROOF PLAN

SHEET No. Al.3



ELEVATION 4 SLAB PLAN SCALE: 1/8" = 1'-0"

I**LE**: Lot 00.0074.dwg DATE: 2/17/2024 11:24 AM

DATE: 02/17/2024
PLAN NO. 1995

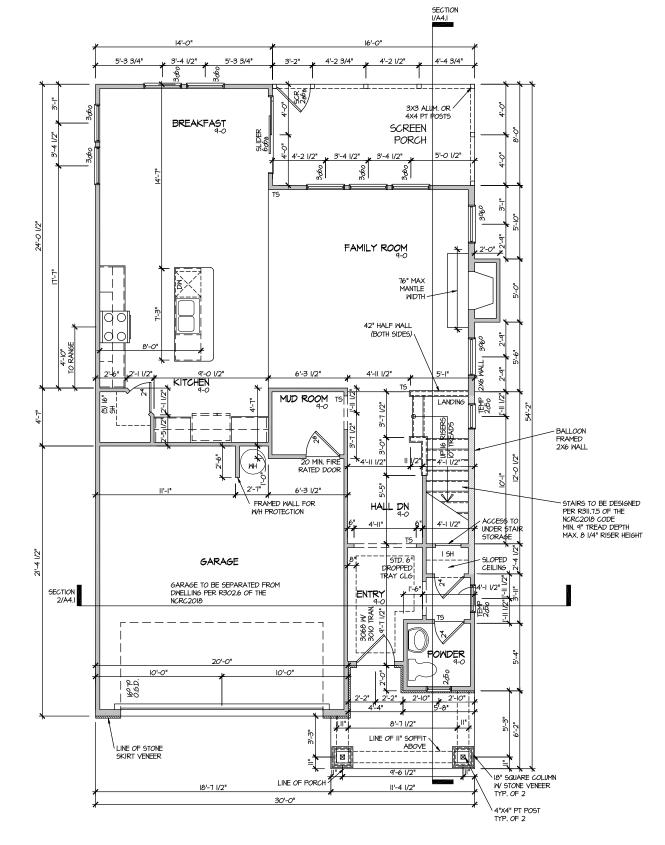
HOUSE NAME:

MERLOT

DRAWING TITLE

SLAB PLAN

SHEET No.



ELEVATION 4 FIRST FLOOR PLAN SCALE: 1/8" = 1'-0"

HOUSE NAME:
MERLOT
DRAWING TITLE

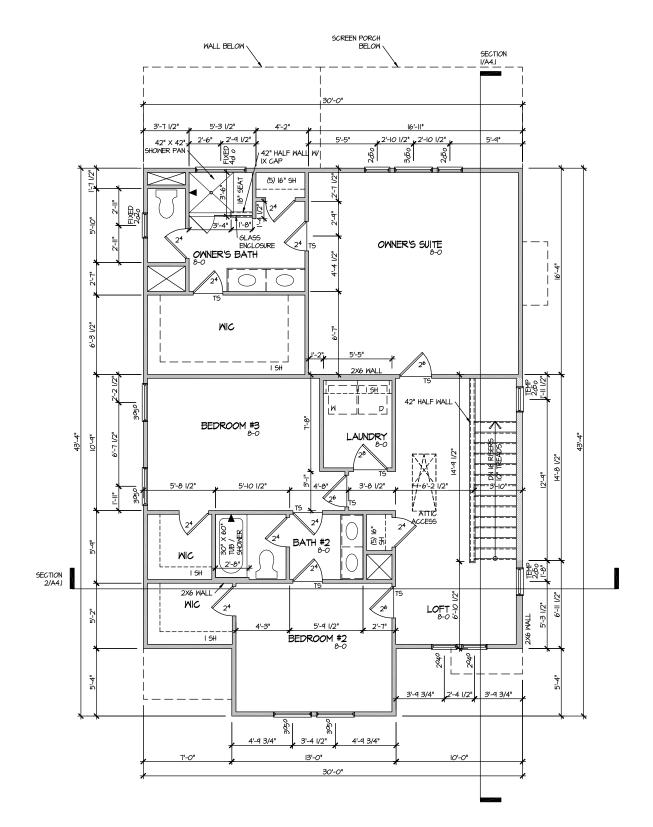
FLOOR PLAN

DRAWN BY:

DATE: 02/17/2024

PLAN NO. 1995

SHEET No. A3.I



ELEVATION 4 SECOND FLOOR PLAN SCALE: 100' = 1'-0'

: Lot 00.0074.dwg DATE: 2/17/2024 11:24 AM

MASTER PLAN INFORMATION

MASTER PLAN INFORMATION

REVISION DATE

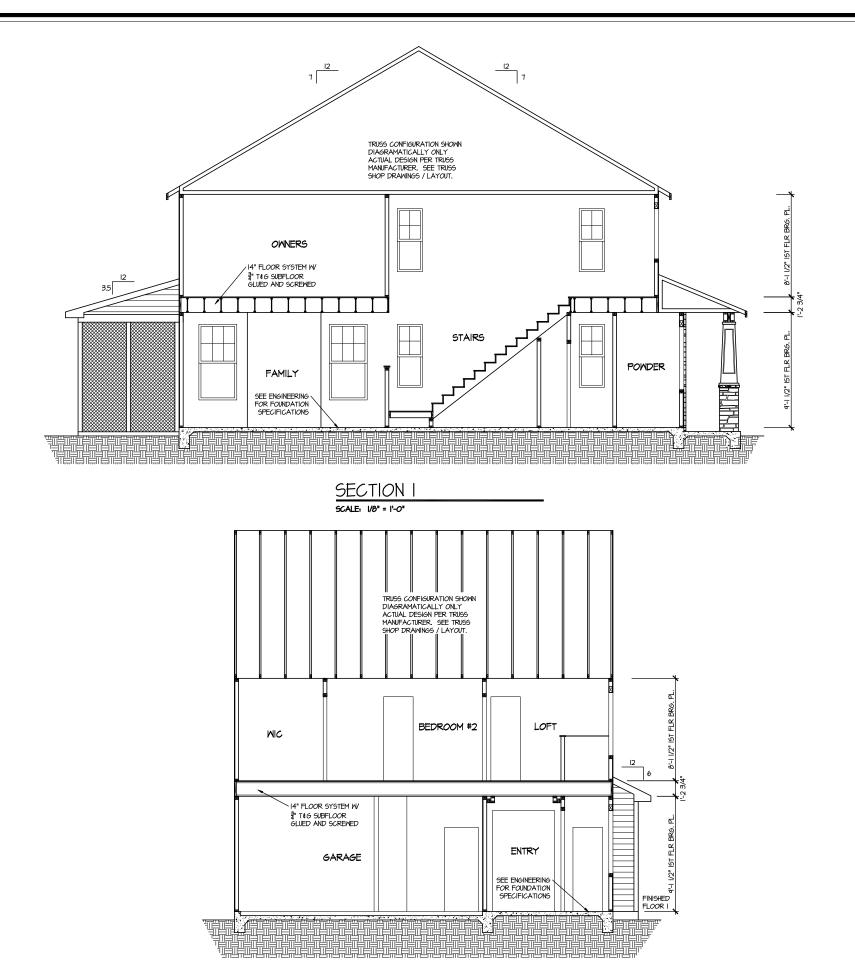
2-RALE 07-10-2023

2-RALE 07-10-2023



HOUSE NAME:
MERLOT
DRAWING TITLE
SECOND FLOOR PLAN

SHEET No. A3.2



SECTION 2 SCALE: 1/8" = 1'-0" HOUSE NAME:

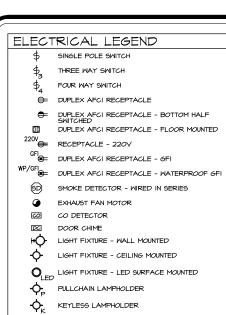
MERLOT

DRAWING TITLE

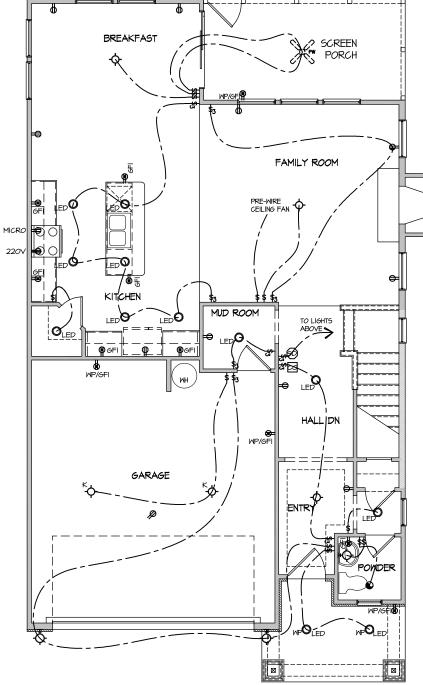
BUILDING SECTION

UPDATED

DRAWN BY: ITS DATE: 02/17/2024 PLAN NO. 1995



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

DRAWN BY:

DATE: 02/17/2024

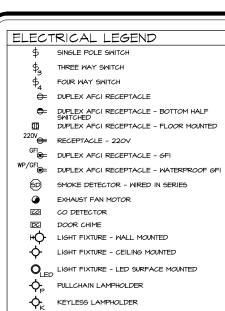
ELECTRICAL

FLOOR

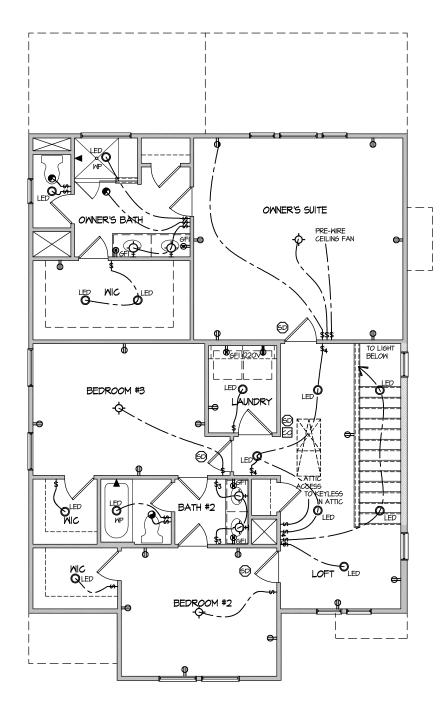
HOUSE NAME:
MERLOT
DRAWING TITLE

SHEET No.

PLAN NO. 1995



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

FILE: Lot 00.0074.dwg DATE: 2/17/2024 11:24 AM

HOUSE NAME:

MERLOT

DRAWING TITLE

SECOND FLOOR ELECTRICAL

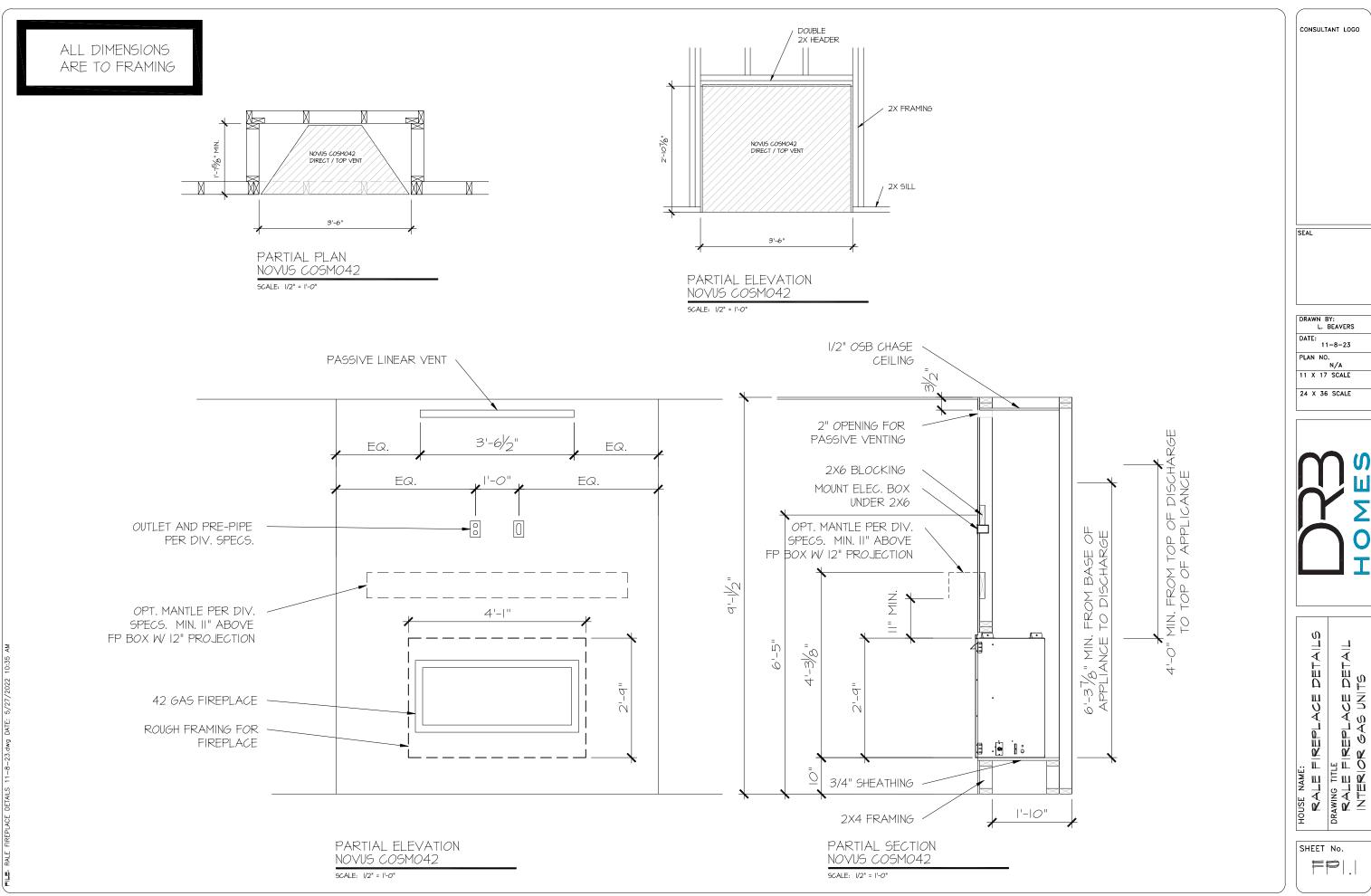
SHEET No.

DRAWN BY:

DATE: 02/17/2024

PLAN NO. 1995

EI.2

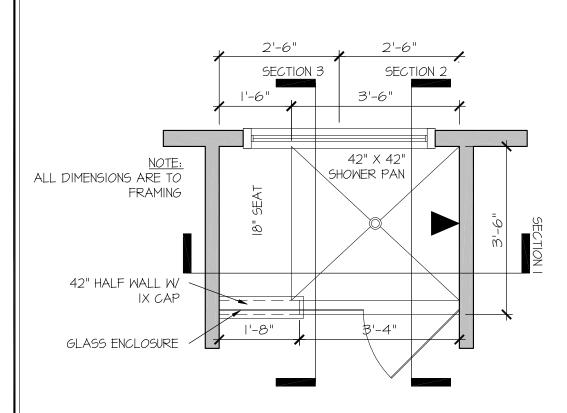


CONSULTANT LOGO

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

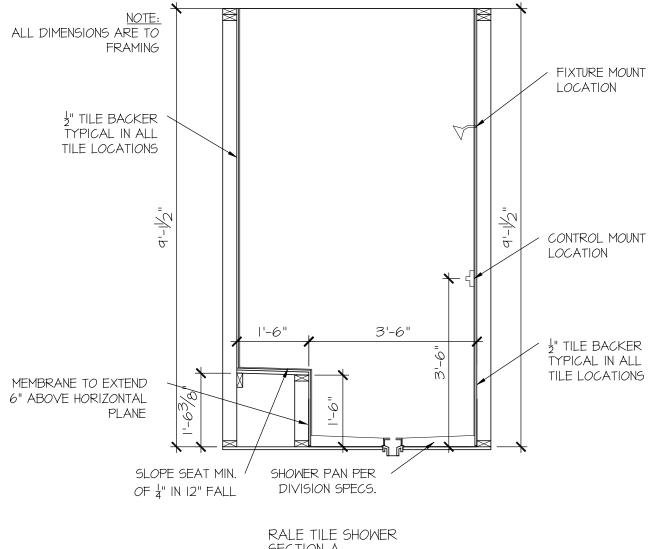


SHEET No.



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.

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

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

MEANS & METHODS NOTES

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

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

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

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

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

- A ROOF TRISSES. I/4" DEAD LOAD
- B. FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS:
- FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO FLOOR FRAMING BY OTHERS: LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAD LOAD. (NOT DIFFERENTIAL DEFLECTION)

GENERAL STRUCTURAL NOTES

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

ROOF

DEAD = 7 PSF T.C., IO PSF B.C. LOAD DURATION FACTOR = 1.25

LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) **FLOOR** DEAD = 10 PSF (I-JOISTS & SOLID SAWN) IO PSF T.C., 5 PSF B.C. (TRUSSES) (ADD'L IO PSF @ TILE)

LATERAL 120 MPH EXPOSURE B. SEISMIC A/B.

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

GENERAL FRAMING

- ALL TYP, NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD DIAMETER AND LENGTH REQUIRED FOR CONNECTION, ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- REFER TO FASTENING SCHEDULE TABLE R602.3(I) FOR ALL 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., 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).
- PENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING
- "LSL" Fb=2325 psi: Fv=3I0 psi: E=I,55xI0^6 psi • 'LVL' - Fb=2600 psi; Fv=285 psi; E=2.0xl0^6 psi
- 'PSL' FB=2900 PSI; FV=290 PSI; 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 INSTALLATION.
- FOR 2 & 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROMS OF 3"X0.120" NAILS @ 8" O/C OR 2 ROMS ¼"X3½" SIMPSON SDS SCREWS (OR 3½" TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 3 ROWS FOR BEAM DEPTHS OF 14" OR GREATER APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE. SOLID 3 ½" OR 5 ¼" 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 $\frac{1}{4}$ "x6" SIMPSON SDS SCREWS (OR 6 $\frac{3}{4}$ " 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
- 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 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 & ABM44Z BASE, U.N.O.

FLOOR FRAMING

- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED 1 /480 LIVE LOAD DEFLECTION CRITERIA (EXCLUDES MARBLE FLOORS - CONTACT M&K FOR MARBLE FLOOR DESIGNS)
- AT I-JOIST FLOORS, PROVIDE I I/8" MIN, OSB RIM BOARD.
- 24" O.C. EXPOSURE I (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W/ GLUE AND
- 2 1" x 0 131" NAII S @ 6"0 C @ PANEL EDGES & @ 12"0 C FIELD

- 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
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.C
- ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI I-08 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING
- SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (MAX 7' SPAN) W
 - RIM BOARD w/ (2) 3"x0.131" NAILS @ 16" O.C. MAX. (1-JOISTS) - TRUSS VERTICALS w/ (3) 3"x0.131" NAILS @ 19.2" O.C. MAX.
- ROOF SHEATHING SHALL BE 1/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBER
- w/ 2 1 x 0.131" NAILS @ 6"04. @ PANEL EDGES & @ 12" 0.6. FIELD.

HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION
► HD-I	SIMPSON HTT4 HOLD-DOWN *
► HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.) (PRE-BENT MSTC66 ALT. WHEN SPECIFIED)
→ HD-3	SIMPSON STHDI4/I4RJ HOLD-DOWN

DIA. THREADED ROD INTO CONCRETE FOUNDATION. PROVIDE 12" MIN, EMBEDMENT INTO CONCRETE. INSTALL PER MANUF, RECOMMENDATIONS. DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF FOUNDATION

VENEER LINTEL SCHEDULE

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

SHALL SUPPORT 2 %" - 3 ½" VENEER W 40 pef MAXIMUM WEIGHT.

- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR'
- 2 3" x 0 120" NAIL S @ 4" O C @ PANEL EDGES & @ 8" O C FIELD
- 2 🖁 x 0.113" NAILS 🛭 3" O.C. 🗗 PANEL EDGES 🕻 🗗 6" O.C. IN FIELD.
- 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
- GIRDER TRUSSES & ROOF BEAMS AT ALL BEARING POINTS.
- OF METAL PLATE CONNECTED WOOD TRUSSES."
- 2x4 LEDGER FASTENED TO:
 - (FLOOR TRUSSES)
- 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.

SYMBOL	SPECIFICATION
► HD-I	SIMPSON HTT4 HOLD-DOWN *
HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.) (PRE-BENT MSTC66 ALT. WHEN SPECIFIED)

ALTERNATIVE TO SSTB24 ANCHOR BOLT SPECIFICATION: UTILIZE SIMPSON "SET" EPOXY SYSTEM TO FASTEN %

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE
3'-0"	20 FT. MAX	L3"x3"x/4"
	3 FT. MAX	L3"x3"x/4"
6'-0"	I2 FT. MAX	L4"x3"x¼"
	20 FT. MAX	L5"x3½"x%"
8'-0"	3 FT. MAX	L4"x4"x¼" "
0-0	I2 FT. MAX	L5"x3½"x%"
	I6 FT. MAX	L6"x3½"x%"
9'-6"	I2 FT. MAX	L6"x3½"x¾"
16'-0"	2 FT. MAX	L7"x4"x½" **
	3 FT. MAX	L8"x4"x/5" **

- LE SHALL HAVE A' FIN. BEARINE

 IF SHALL HAVE O' HIN. BEARINE

 IF SHALL HAVE O' HIN. BEARINE

 IF SHALL BEAR STEEPED BACK TO HOOD HEADER.

 IF SHALL BE FASTIBED BACK TO HOOD HEADER IN MALL 446°02. IN 15' DIA. X 3 15'

 LONG LAS SCREPS IN 2' LONG VERTICALLY SLOTTED HOLES.

 MAX. YEBERS IN A'PRILES TO ANY FORTION OF FROKE OVER THE OPENING.

 ALL LINTELS SHALL BE LONG LEG VERTICAL.

 BENER SUPPORTION PUERER O' PINCE THE EXTERIOR TOE OF THE HORIZONTAL LEG

 MAY BE CUT IN THE FIELD TO BE 35' MIDE OVER THE BEARING LEIGHTH ONLY. THIS

 STO ALLON FOR HORIZON ALONG THROUGHS.

 STO ALLON FOR HORIZON ALONG THROUGHS.

 BE STO ALLON FOR HORIZON ALONG THROUGHS.
- GUEEN VENEER USE L4x3%". R 3½" VENEER ONLY, SEE PLAN FOR VENEER SUPPORT IF VENEER < 3½" THICK

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

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

<u>0 MPH WIND IN 2018 NCSBC:R(</u> (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 R30LL3 OF THE 2018 NGSBC:RC, OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R60212 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.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 ¾"x0.113" 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 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: 1/2" 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 3/4" x 0.113" NAILS @ 6" O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR 1 3/4" 16 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C IN FIELD. ALL SHEATHING PANELS SHALL BE ORIENTED AND INSTALLED FULL HEIGHT OF SHEAR WALL OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE FASTENING.

3" O.C. EDGE NAILING

AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING W/ 8d NAII S @ 3" OC NO STAPI F AI TERNATIVE 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" OC EDGE FASTENING

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING, IE 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 OR 3" O.C. OSB SHEARWALL.

INDICATES HOLDOWN BELOW.

GENERAL STRUCTURAL NOTES

FOUNDATION

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE RESIDENTIAL CODE.
 - FOOTING DESIGN 2.000 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.
 - FASTEN 2x4/6 SILL PLATES TO FND WITH A MINIMUM OF 2 ANCHORS PER PLATE 12" MAX FROM PLATE ENDS - LITH 17ING
 - I/2" DIA. ANCHOR BOLTS ● 6'-0" O.C, 7" MIN. EMBEDMENT (CONC.) 15" MIN EMBEDMENT (CMU)
 - SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C. (CONC)
 - SIMPSON MAB23 ANCHOR STRAPS 2'-8" O.C. (CMU)
 - (REFER TO DETAILS FOR IO' TALL WALL ANCHOR REQUIREMENTS)
 - ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ CONCRETE OR CMU SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
 - BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED WOOD. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
 - BASEMENT INTERIOR BEARING WALLS & EXTERIOR WALK-OUT BASEMENT WALLS SHALL BE 2x6 @ 16" O.C. SPF OR SYP, "STUD" GRADE OR BETTER.
 - CONCRETE DESIGN BASED ON ACL 318 CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.: 4,000 psi: FOUNDATION WALLS
 - 2,500 psi: FOOTINGS & INTERIOR SLABS ON GRADE 3,000 psi: GARAGE & EXTERIOR SLABS ON GRADE 60,000 psi
 - BASEMENT FOUNDATION WALL DESIGN BASED ON: . d' OP IO' HEIGHT (AS NOTED ON PLANS)
 - TALLER WALLS MUST BE ENGINEERED. NOMINAL WIDTH (9 ½" FOR 10" THICK WALL).
 - BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYPE CLASSIFICATIONS (SC, ML-CL, OR CL).
 - BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY ADEQUATE TEMPORARY BRACING OR INSTALL 1st FLOOR DECK.
 - PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN CONCRETE BSMT, FND, WALL WITH 2" CLEAR, REINFORCEMENT SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS
 - FOR OPENINGS UP TO 36", PROVIDE MINIMUM IO" CONCRETE DEPTH OVER OPENING OR (3)2x10 w/ (2)2x6 JACK STUDS, U.N.O
 - LARGER OPENINGS SHALL BE PER PLAN. ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS
 - THAN 5% OR MORE THAN 7% AIR ENTRAINMENT ALL FOOTINGS SHALL BEAR AT LEAST 12" BELOW FINISH GRADE.
 - FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.
 - PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY
 - TO DEVELOP . JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR
 - 15'-O" OC (MAXIMUM) JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (I.I RATIO) WITH A MAXIMIM OF I.I.S RATIO
 - CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 WITH A MIN
 - COMPRESSIVE STRENGTH OF 1900 psi (Fm=1500 psi). MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 \$ 530.I. ● CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL
 - JOINT REINFORCEMENT (OR EQUAL) 9 GA. MINIMUM @ 16" O.C. PROVIDE 2x8 x 16" LONG 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.

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

H CAR OFESSIO ENGINE EPH T. R

3/4/2

X ENGINE ERNATURAL EL



1&K project numbe 126-2207

rawn by: sue date: 02-21-24

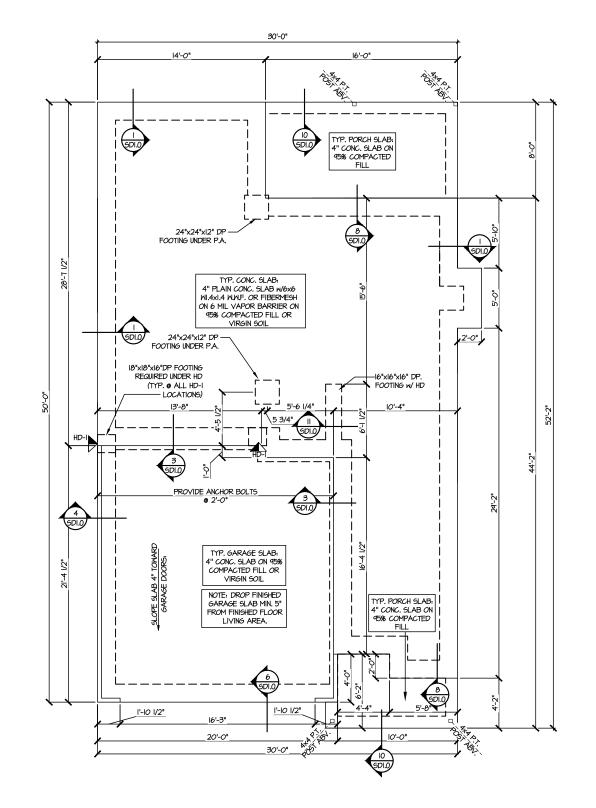
initial:

REVISIONS



RE \bigcap \mathcal{O} **E** 4 Z 6 A B Z

LOT 74 -RALEIGH





MUCHERN+KULP

3/4/24



M&K project number: 126-2207

drawn by: issue date: 02-21-24

REVISIONS:

initial:

CREEK

FARM AT NEIL'S Lot 74 - Merlot 4 Raleigh, nc

S1.0

OUNDATION P

LEGEND

- IIIIIII INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- BEAM / HEADER
- = = INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING

JL METAL HANGER

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

INDICATES HOLD-DOWN OR STRAP.
REFER TO SCHEDULE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

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

3" O.C. EDGE NAILING (SEE NOTES)

(I)2x4 JACK @ EA. SIDE

VALLEY TRUSS

VALLET TRUSS-OVERFRAMING (1)2x4 JACK • 24" O.C.

BEAM 004

ON EA. SIDE

ROOF TRUSSES @ 24" O.C.

BASE (SEE DETAIL 3/SD3.0) (TYP.)

2x ROOF RAFTERS ---

9 24" o.c.

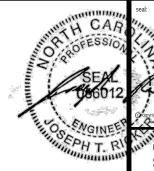
SALLOON-FRAMED W 2x6 STUDS SPF #2 OR SYP #2 GRADE OR W 3" O.C. EDGE NAILING (SEE

-WALL ABV. PROVIDE

FULL HEIGHT WALL SHEATHING BEHIND LOW ROOF TRUSSES. EXTEND

LOW RT TOP CHORDS TO WALL ABOVE PER DETAIL 1/5D2.I

4x4 P.T. POST w/ SIMPSON BC52-2/4 CAP & ABM44Z BASE (SEE DETAIL 3/SD3.0) (TYP.)



MUCHERN+KU
RESIDENTIAL STRUCTURAL ENGINE

3/4/24



M&K project number

126-2207

rawn by: sue date: 02-21-24

REVISIONS: initial:

LEGEND

SD2.I REFERS TO SD2.IA FOR

LVL/PSL/LSL BEAMS OR SD2.IB

FOR FLITCH BEAMS OR SD2.IC

FOR STEEL BEAMS

- 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

BEAM	1ON
NUMBER LYL OPTION PSL OPTION LSL OPTION FLITCH OPTION STEEL OPT	ION
00I (2)%*xII%* - H 3%*xII%* - H (3)%*xII%* - H (3)2x12 + (2) \(\)	
002 (4)%'xi4" - F 7'xi4" - F (5)%'xi4" - F (4)2xi2 + (3)½'xi½' 5TEL HITCH PLATES - FB Wi2xi9 -	F
003 (2)%'x\4" - D 3½'x\4" - D (3)%'x\4" - D (3)%'x\4" - D (3)2x\12 + (2) %'x\ 4" - D Wex\10 -	D
004 (2)%*xl4* - F 3½*xl4* - F (3)%*xl4* - F (2)2xl2 + (1)½*xl½* STEEL FLITCH PLATES - FB WI2xl4 -	F
005 (2)%*xl6" - H 3½*xl6" - H (3)%*xl6" - H (3)%*xl6" - H (3)2xl2 + (2)½*xl½*STEL FLITCH PLATE5 - FB N/A	
006 (2)将次44* - D 3½×44* - D (2)将次144* - D (2)2x(2 + ())4x(4)4* 5TEEL FLITCH PLATE5 - D Wext0 -	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 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.

ANS CREEK RAMING OR

1 AT NEIL'S (
- MERLOT 4
- N. N.C. LOT 74 - N RALEIGH, ARM

MUCHERN+KULP

RESIDENTIAL STRUCTURAL ENGINEERING

300 Publishe Ave. Building 14 Amiliar, PA 19002

2155 SHREENIT - Imministration

3/4/24

Y

M&K project number: 126-2207

drawn by: issue date: 02-21-24

REVISIONS:

initial:

CREEK

LEGEND

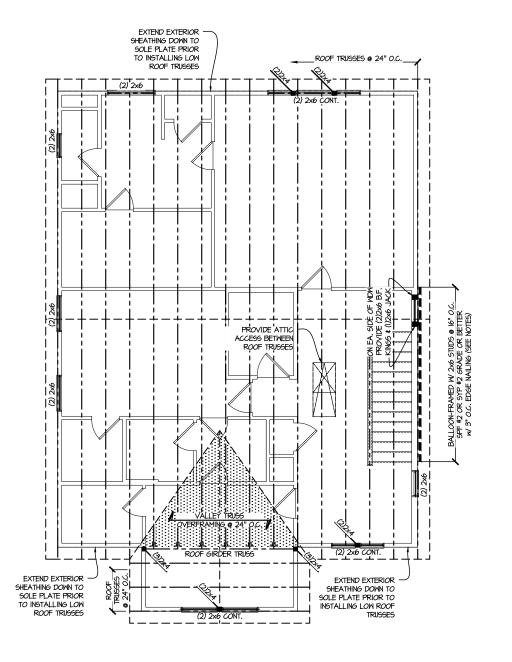
- INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- ---- BEAM / HEADER
- ullet = = INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING

JL METAL HANGER

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

INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

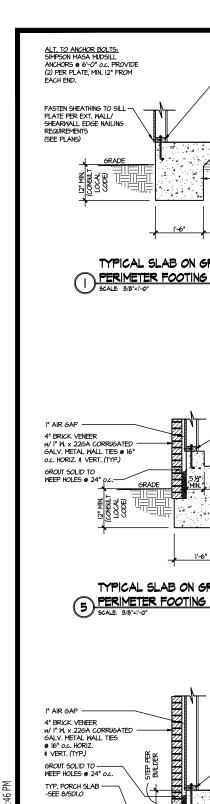
REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES # SCHEDULES

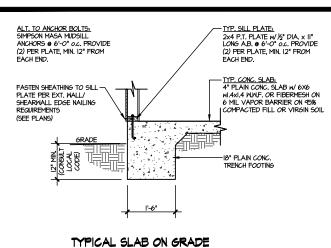


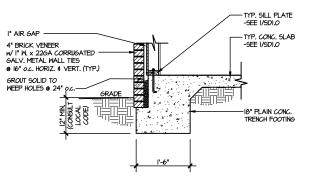
ROOF FRAMING PLAN SCALE: 1/8"=1'-0"

FARM AT NEIL'S (LOT 74 - MERLOT 4 RALEIGH, NC FRAMING OOF

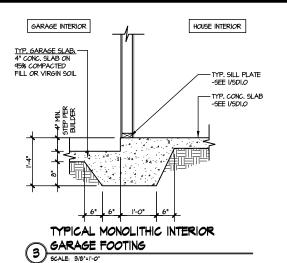
S3.0

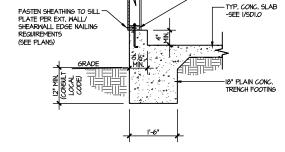






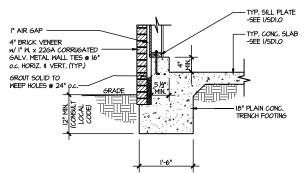




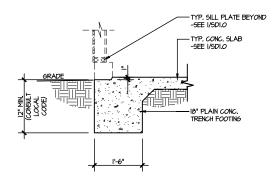


-SEE I/SDI.O

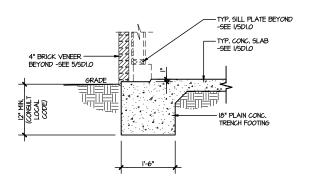




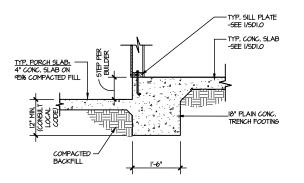




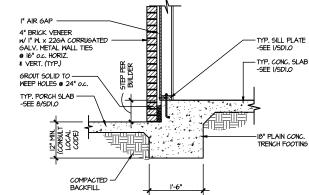
TYPICAL SLAB ON GRADE GARAGE 6 ENTRY @ PERIMETER FOOTING
SCALE: 3/8"=1"-0"



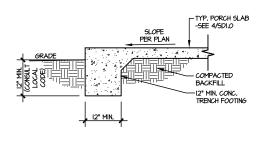
TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING



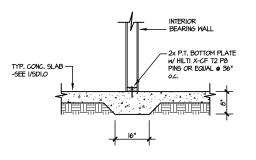
TYPICAL SLAB ON GRADE PERIMETER 8 FOOTING @ PORCH/PATIO SCALE: 3/8"=1'-0"



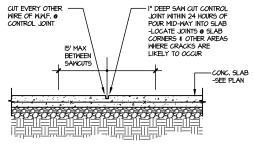
TYPICAL SLAB ON GRADE PERIMETER FOOTING @ PORCH/PATIO



TYPICAL FOOTING @ PORCH SLAB



TYPICAL THICKENED SLAB @ NITERIOR BEARING WALL





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.

LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN

SD1

ARM

CREEK

N O

I AT NEII Merlot 4 I, nc

LOT 74 -Raleigh,

3/4/24

ERNATKUI STRUCTURAL ENGINEEL

M&K project number: 126-2207

ssue date: 02-21-24

initial:

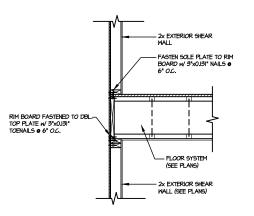
frawn by:

REVISIONS

TH CAR

SEPH T. R

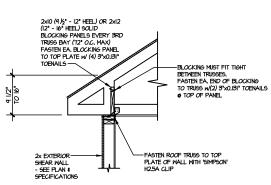
OFESSIO



TYPICAL SHEAR TRANSFER DETAIL

BETWEEN FLOORS @ EXTERIOR WALL

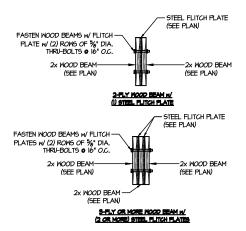
SCALE: 3/8':1'-0'



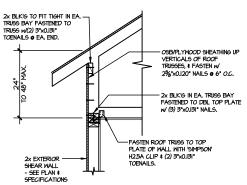
TYPICAL SHEAR

TRANSFER DETAIL @ ROOF

SCALE: 3/8"=1"-0" HEEL HEIGHT DETMERN 9 1/5" - 16"



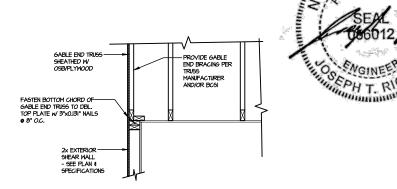
D TYPICAL FLITCH BEAM CONNECTION DETAIL



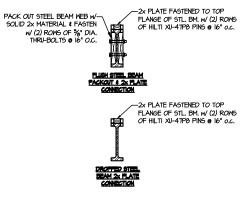
TYPICAL SHEAR TRANSFER

DETAIL @ RAISED HEEL TRUSS

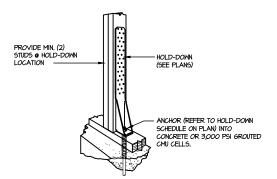
SCALE: 3/8':-'-0' HEEL HEIGHT UP TO 48' MAX.



B TYPICAL GABLE END DETAIL



TYPICAL STEEL BEAM CONNECTION DETAIL



TYPICAL HOLD DOWN INSTALLATION
SCALE: NT.5.

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. HOMES

3/4/24

MULHERN+KULP

Y

M&K project number:

drawn by:

REVISIONS:

126-2207

issue date: 02-21-24

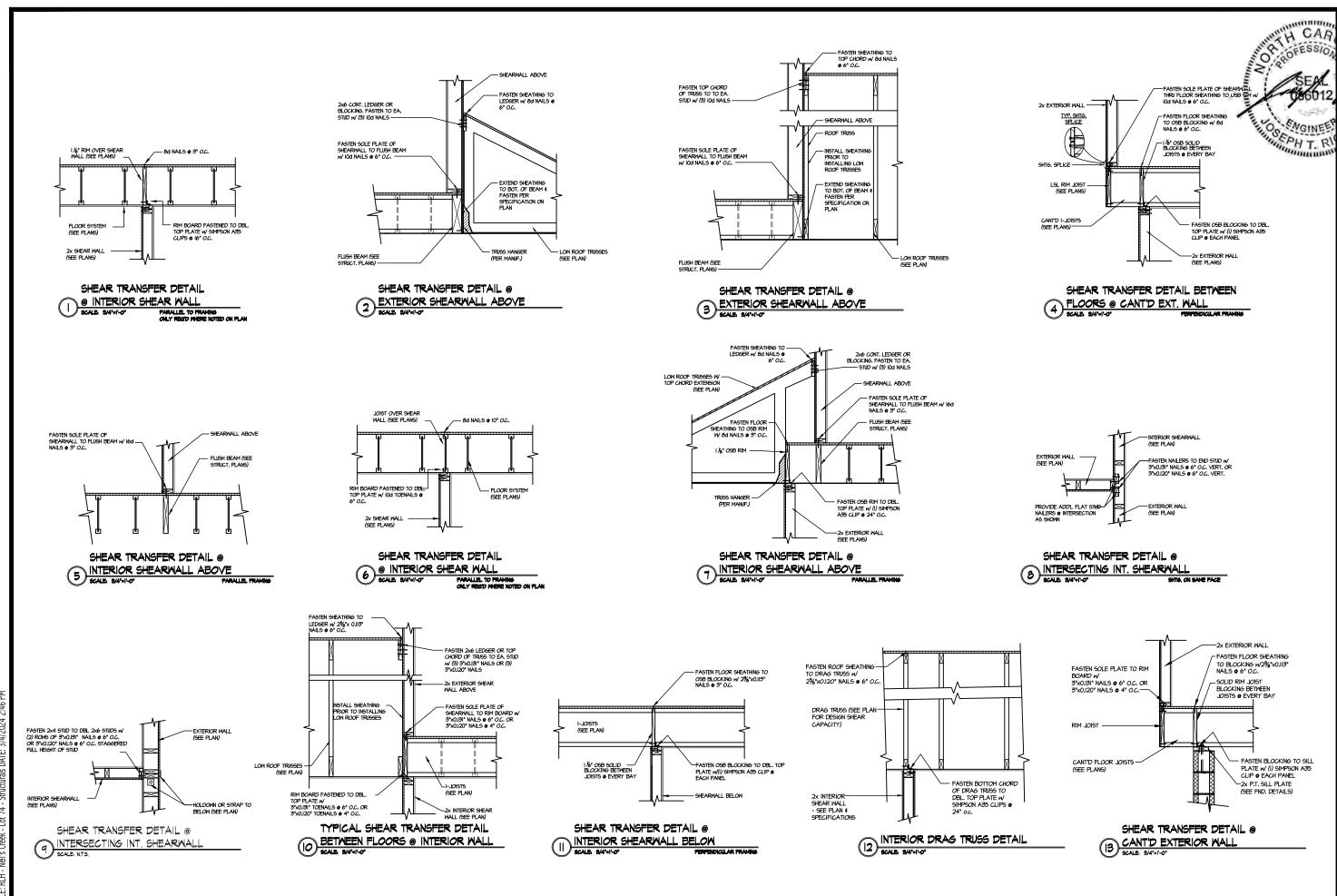
initial:

H CAR

FRAMING DETAILS
FARM AT NEIL'S CREEI
LOT 74 - MERLOT 4
RALEIGH, NC

sheet:

NSFER DETAIL @ ROOF
3/6"=1"-0" HEEL HEIGHT BETMEEN 9 1/2" - 16"
BLOCKING READ



SD2.1A

ARM

 \Box

 \tilde{N}

Ŋ

EIL'

MERLOT I, NC

LOT 74 -Raleigh,

3/4/24

LERN+KUI LI STRUCTURAL ENGINEE Malling 4 + Amble, PA 19002

Y

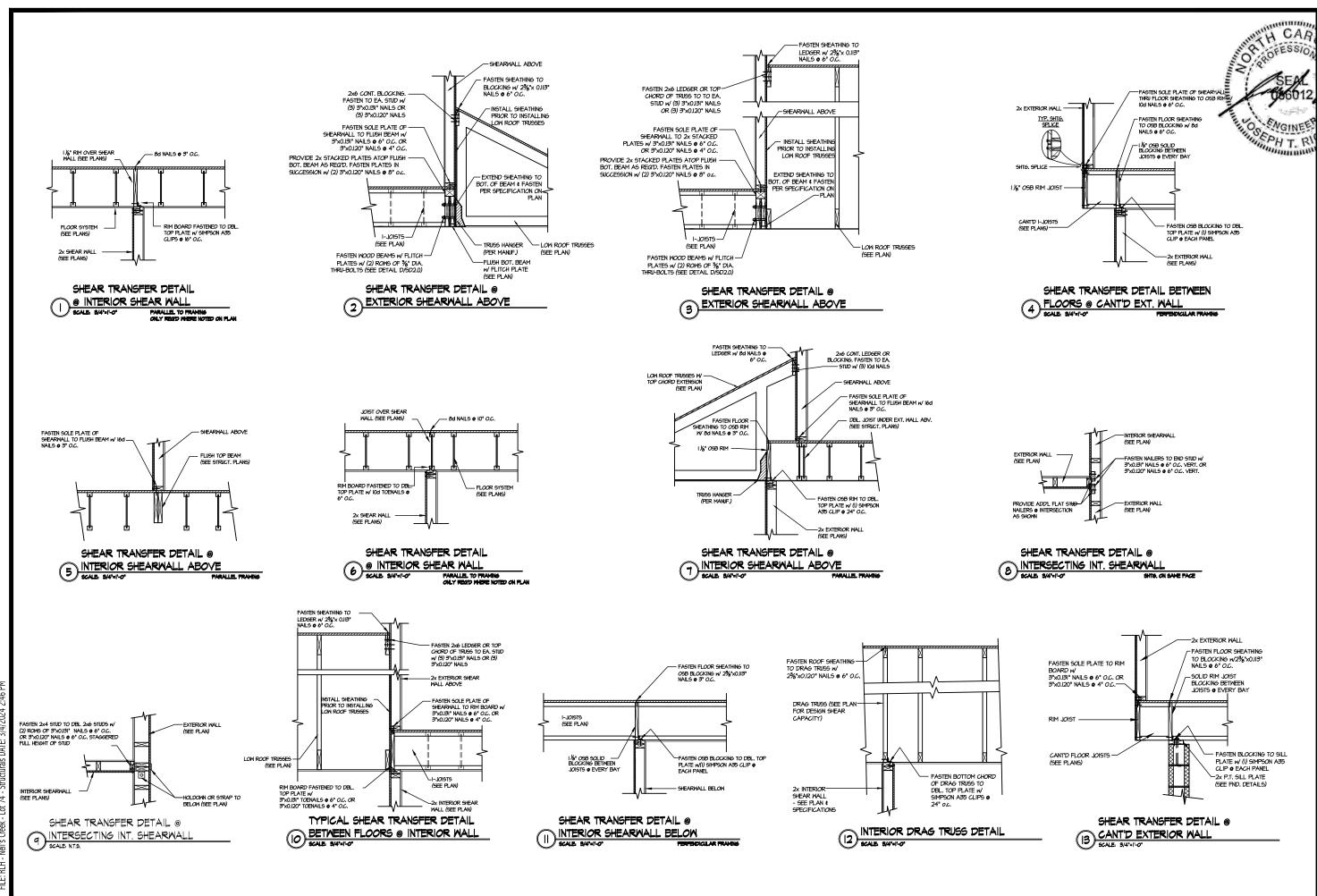
M&K project number: 126-2207

ssue date: 02-21-24

initial:

frawn by:

REVISIONS



LE: RLH - Neil's Creek - Lot 74 - Structurals DATE: 3/4/2024 2:46 PM

SD2.1B

ARM

 $\overline{\cup}$

 \mathcal{O}

EII

MERLOT I, NC

LOT 74 -Raleigh,

3/4/24

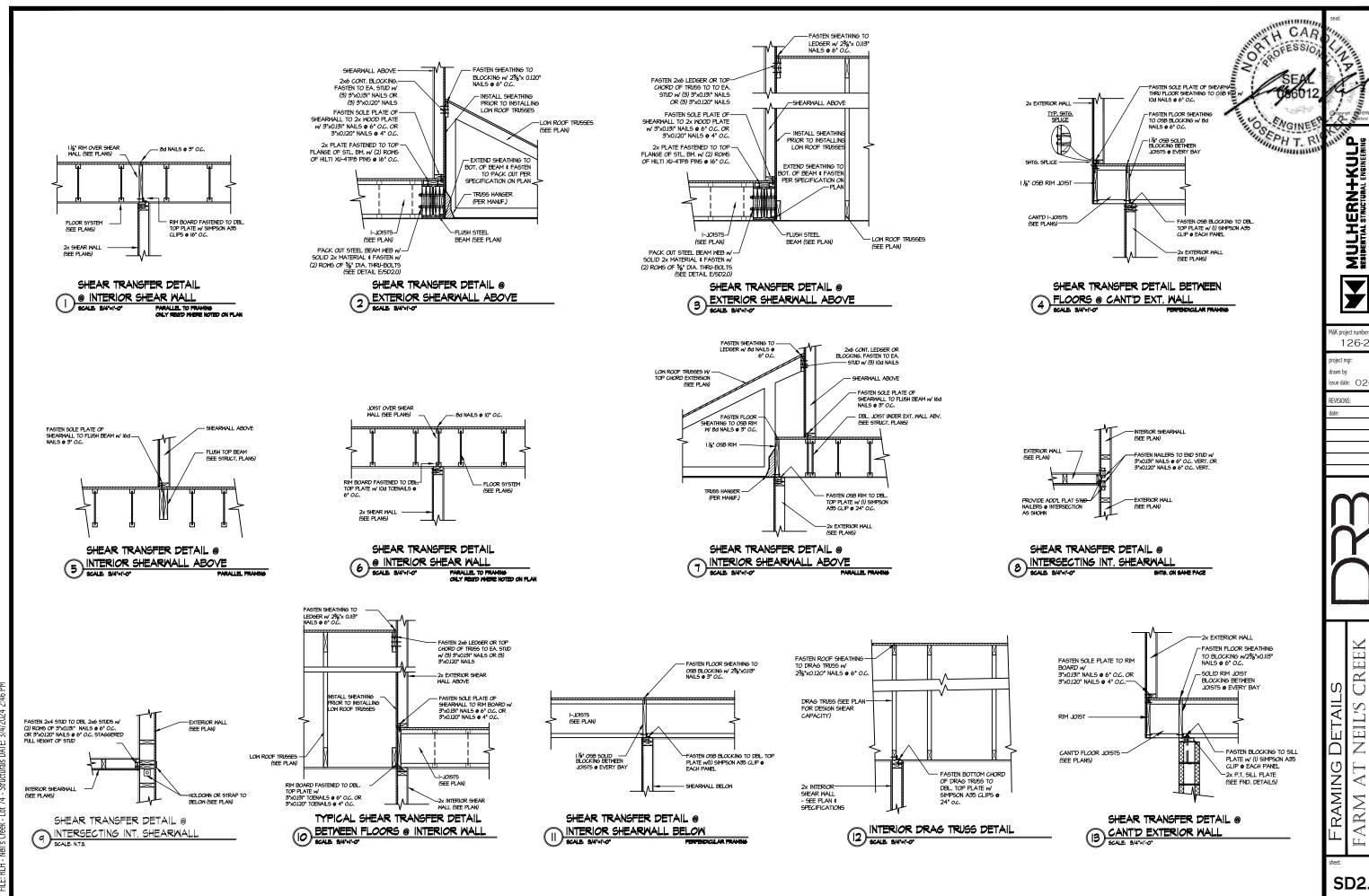
ERN+KUI

M&K project number: 126-2207

REVISIONS

ssue date: 02-21-24

initial:



MERLOT I, NC Ü ARM LOT 74 -Raleigh,

 \Box

 \mathcal{O}

EIL'

3/4/24

ERN+KUI STRUCTURAL ENGINEEL

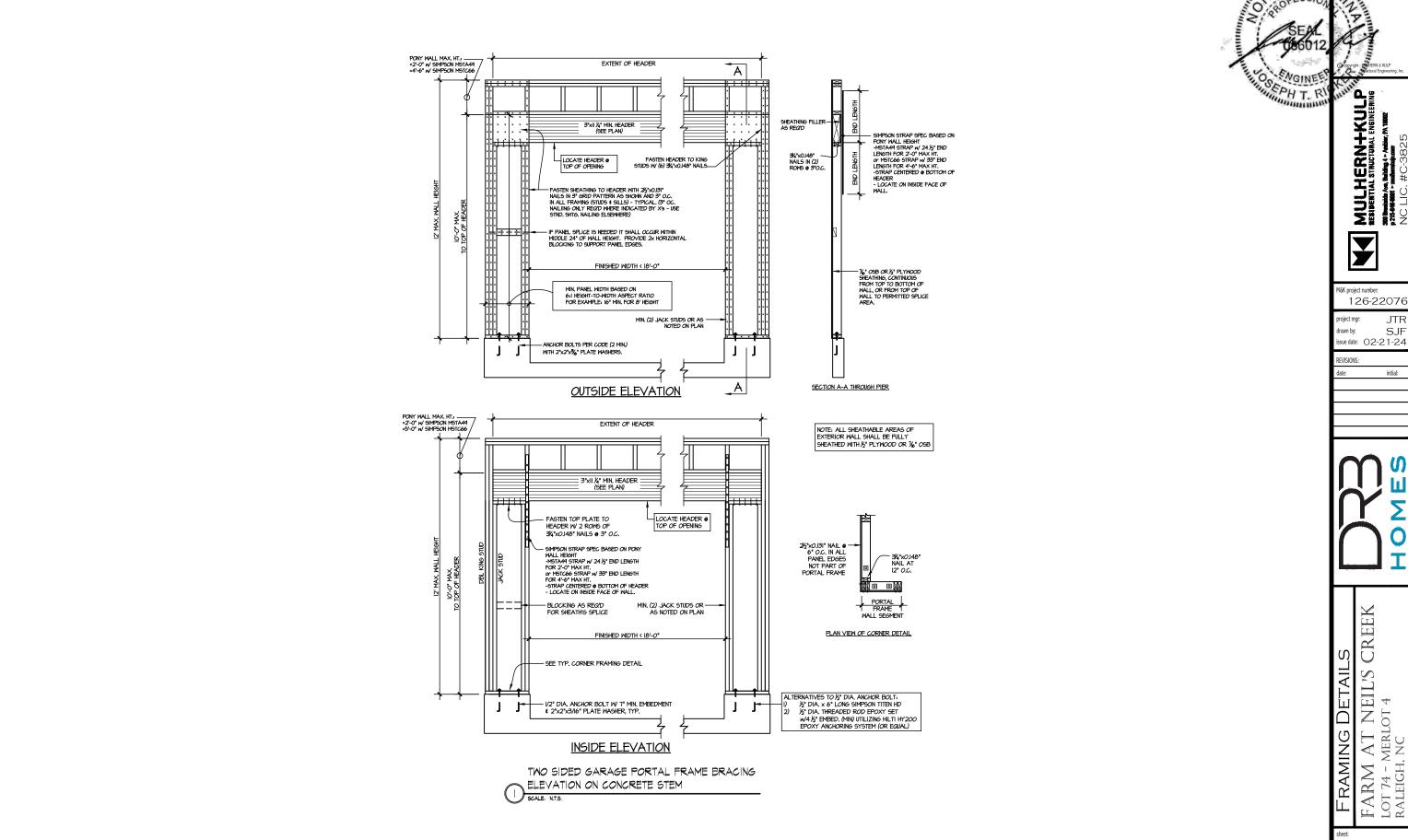
126-2207

ssue date: 02-21-24

initial:

REVISIONS

SD2.1C



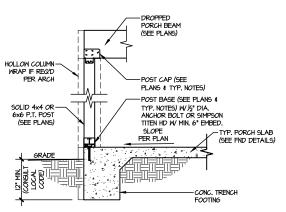
I F. DI II - N.S. ... Canal - Lat 74 - Characteristic - DATE: 2/4/2024 - 2.46 DM

SD2.2

3/4/24

TH CAR





TYPICAL PORCH
POST CONNECTION DETAIL
SCALE: NONE SLAB ON GRADE SHOW SLAB ON GRADE SHOWN (SIM. @ CRAWL & BSMT.)

FILE: RLH - Neil's Creek - Lot 74 - St

MULHERNHKULP RESIDENTIAL STRUCTURAL ENGINEERING SUBMISSION OF PARTY PARTY

y

M&K project number: 126-22076

drawn by: SJF issue date: O2-21-24

FARM AT NEIL'S CREEK Lot 74 - Merlot 4 Raleigh, nc

SD3.0



SEAL

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

PLAN NO.

04 V 76 COALE

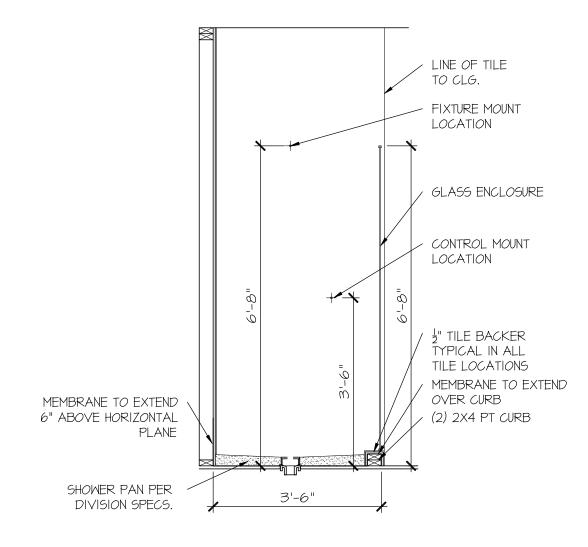
24 X 36 SCALE



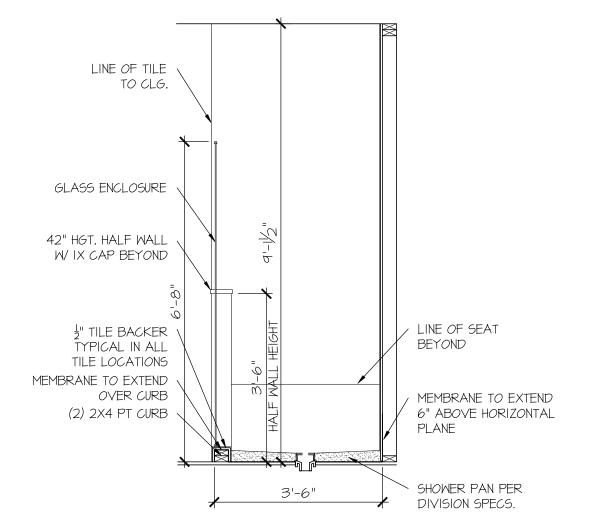
SHOWER DETAIL

RAWING TITLE

SHEET No.

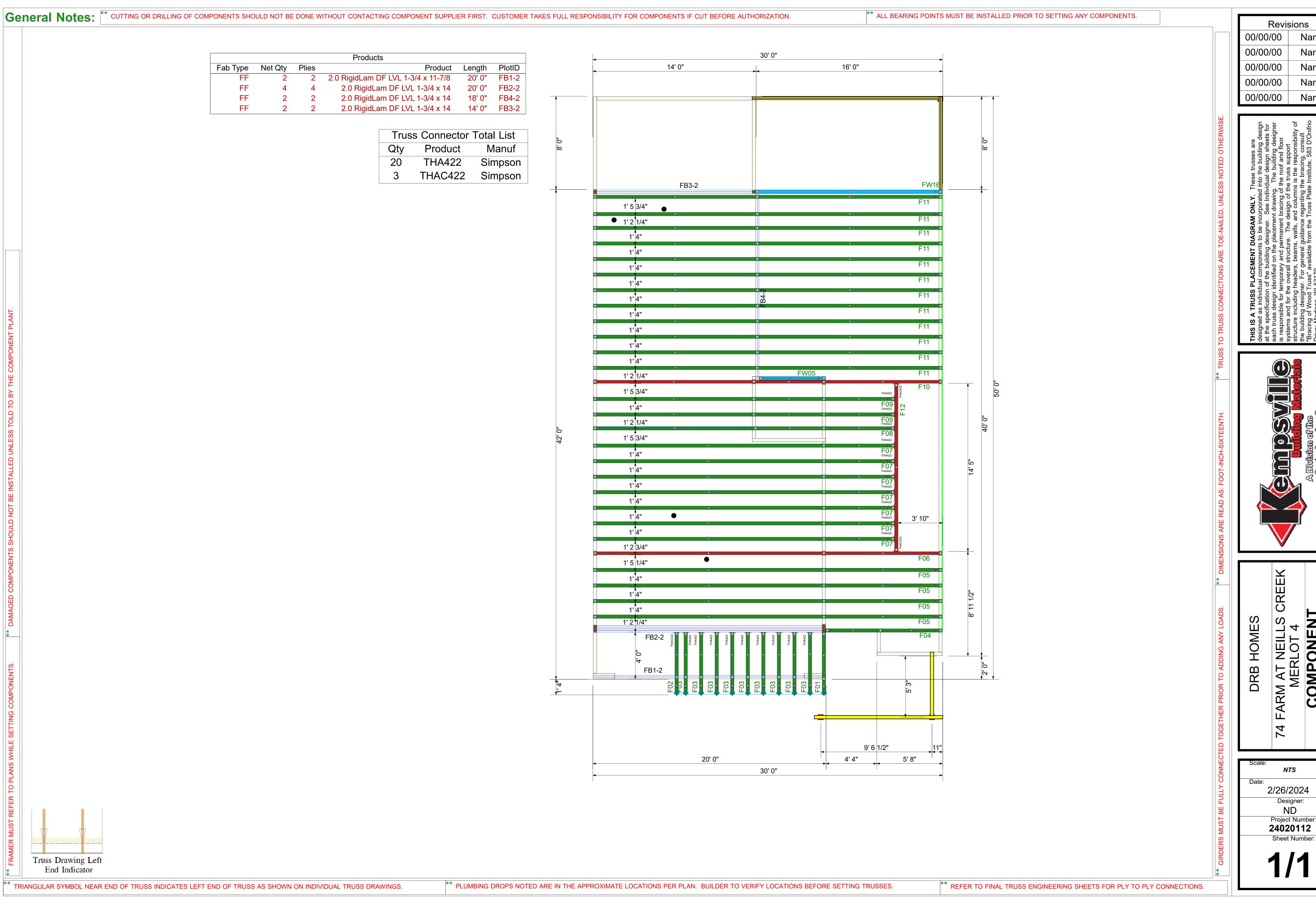


RALE TILE SHOWER
SECTION B
SCALE: 1/2" = 1'-0"



RALE TILE SHOWER SECTION C

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



Revisions Name Name

Name Name

Name

2/26/2024 Designer: Project Number: 24020112

FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION.

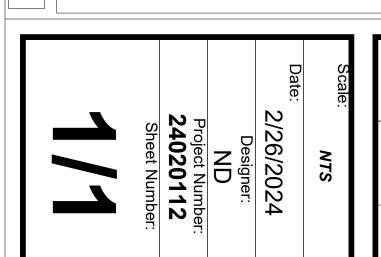
** ALL BEARING POINTS MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS

8' 0"

General Notes:

** CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER

TRUSS INDICATES LEFT END OF TRUSS AS SHOWN ON INDIVIDUAL TRUSS DRAWINGS



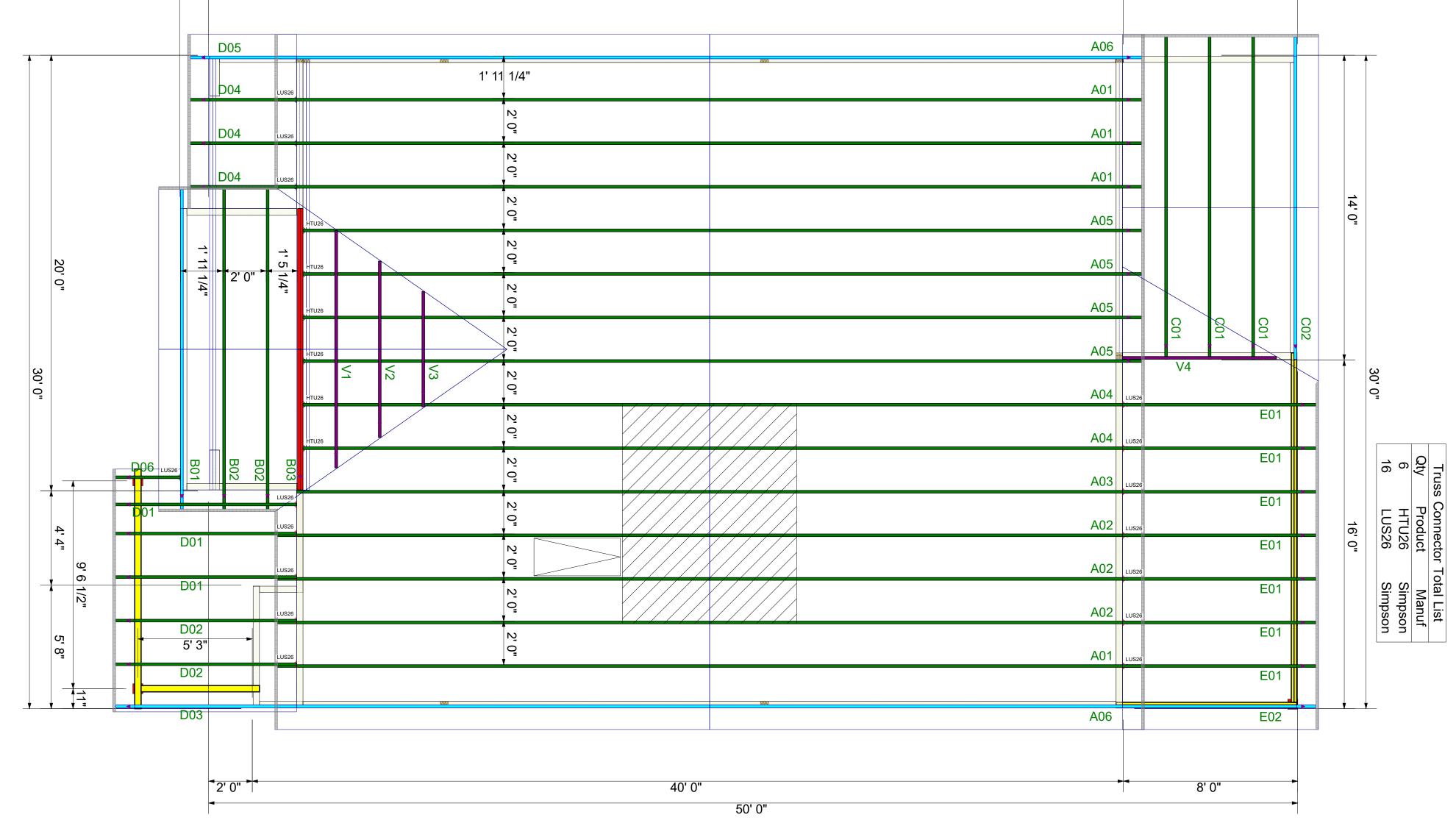
DRB HOMES 74 FARM AT NEILLS CREEK

MERLOT 4 COMPONENT **PLACEMENT PLAN**



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Madison, WI 53179

Revisions00/00/00Name00/00/00Name00/00/00Name00/00/00Name00/00/00Name		
Visio	Name	00/00/00
Visio	Name	00/00/00
	Name	00/00/00
/isio	Name	00/00/00
Revisions	Name	00/00/00
	ions	Revis



42' 0"

** GIRDERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.

** DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.

** TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE.

Drive: Madison, WI 53179