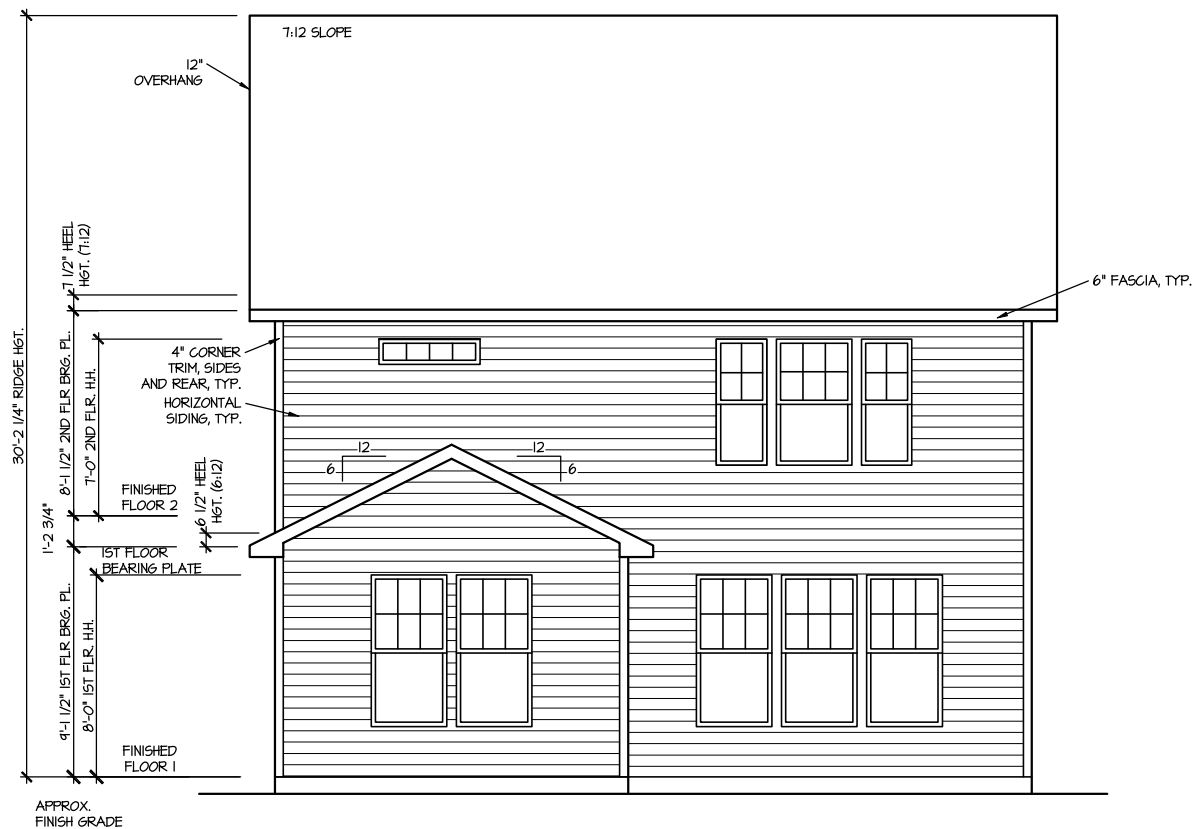


FRONT ELEVATION 2

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



REAR ELEVATION 2

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

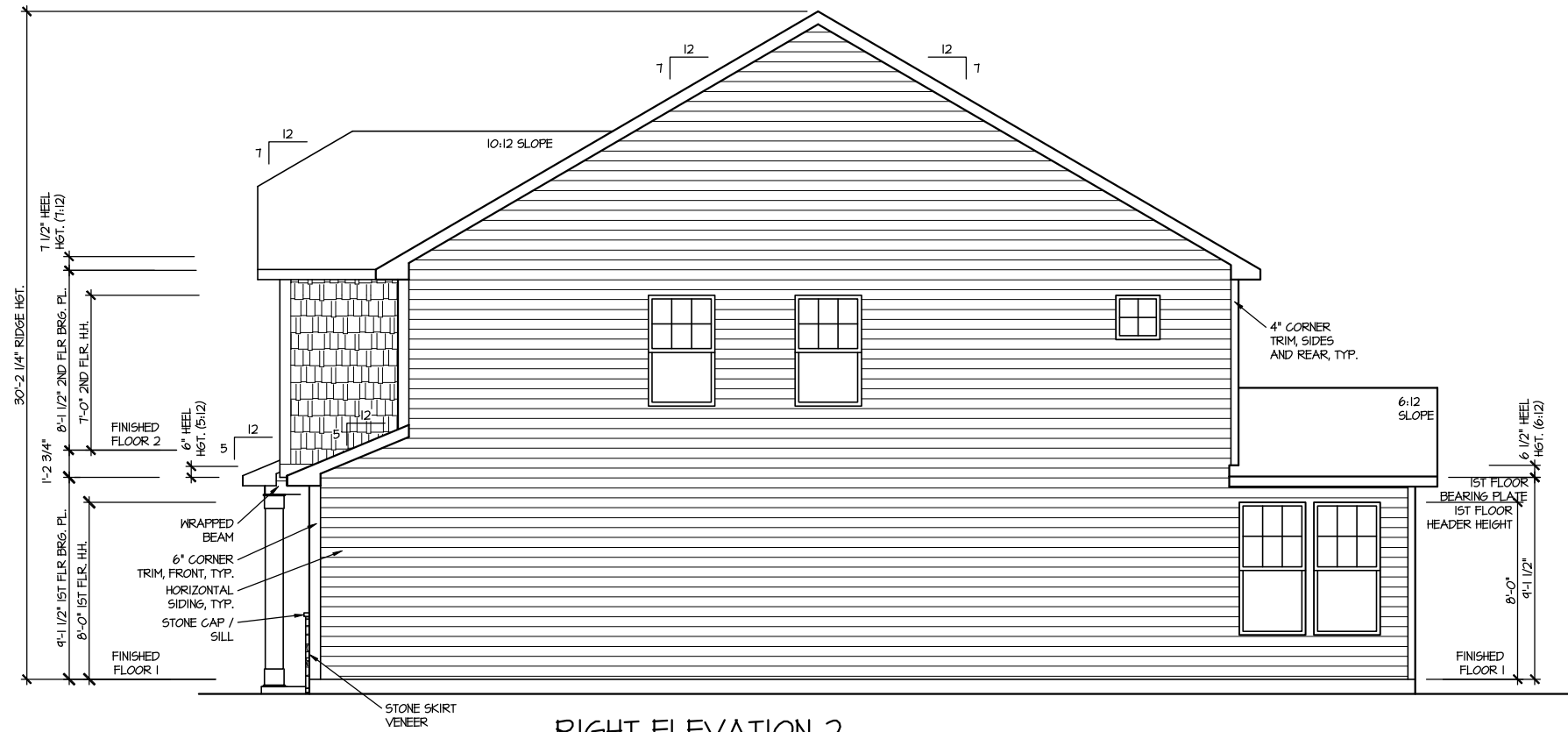
MASTER PLAN INFORMATION		UPDATED DATE
REVISION	DATE	
2 - RALE	07-10-2023	

DRAWN BY: ITS
 DATE: 02/08/2024
 PLAN NO. 1995



HOUSE NAME: MERLOT
 DRAWING TITLE: FRONT & REAR ELEVATIONS

SHEET No. A.1



RIGHT ELEVATION 2

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



LEFT ELEVATION 2

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

MASTER PLAN INFORMATION	
REVISION	DATE
2-RALE	07-10-2023
	UPDATED DATE

DRAWN BY: ITS
 DATE: 02/08/2024
 PLAN NO. 1995

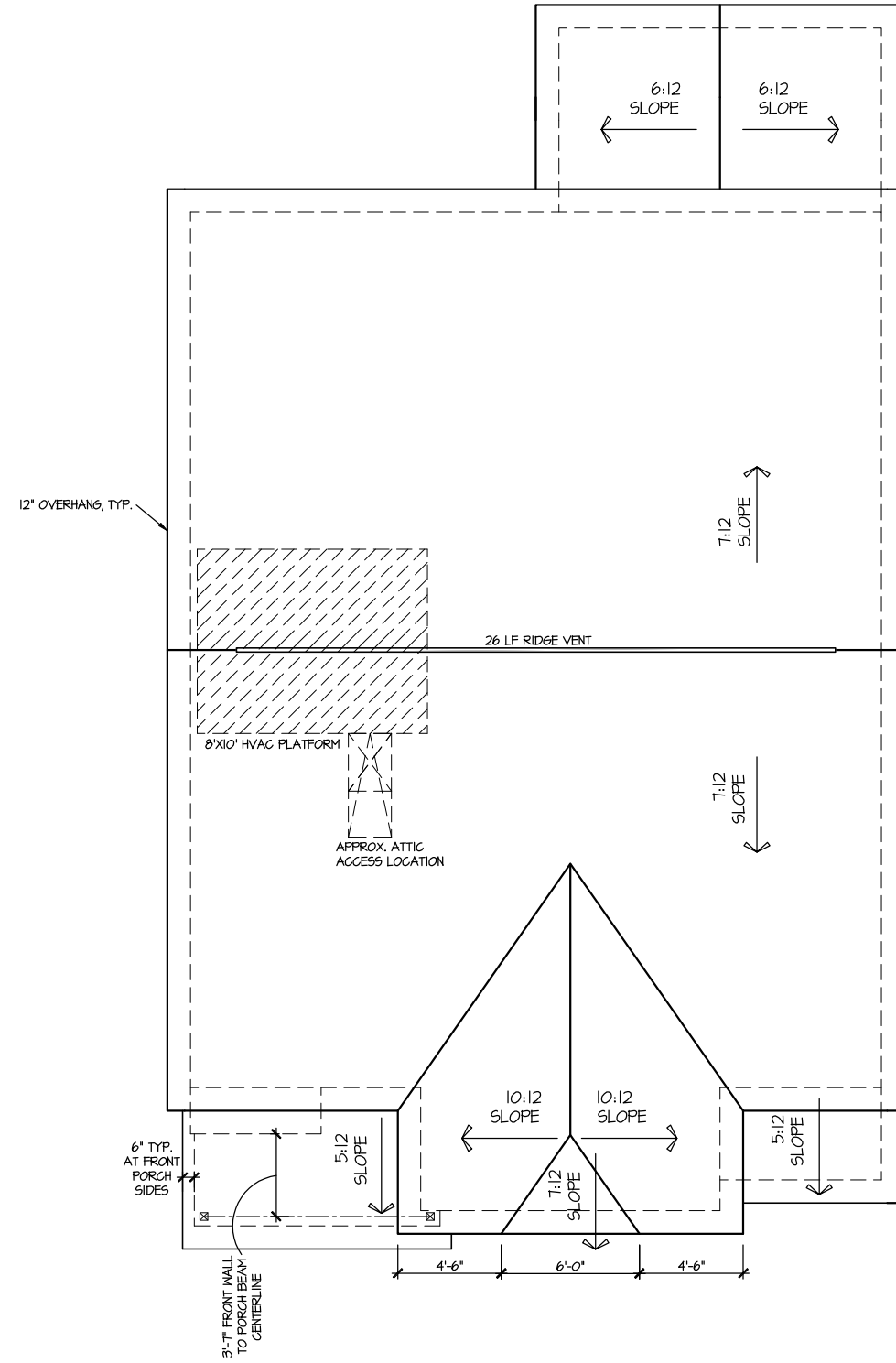


HOUSE NAME: MERLOT
 DRAWING TITLE: RIGHT & LEFT ELEVATIONS

SHEET No. A1.2

UPPER ROOF VENTILATION CALCULATIONS:

ROOF AREA = 1800 SQ. FT.
 OVERALL REQUIRED VENTILATION:
 1 TO 150 = 8.61 SQ. FT.
 1 TO 300 = 4.33 SQ. FT.
 50-80% IN TOP THIRD = 2.17 - 3.46 SQ. FT. (1 TO 300)
 NET FREE AREA OF VENTED SOFFIT = 5.1 SQ. IN. / LINEAR FT.
 NET FREE AREA OF RIDGE VENT = 18 SQ. IN. / LINEAR FT.
 LOWER VENTING (BOTTOM 2/3 RISE)
 57 LINEAR FEET OF SOFFIT X 5.1 SQ. IN. = 2.26 SQ. FT.
 UPPER VENTING (TOP 1/3 RISE)
 26 LINEAR FEET OF RIDGE X 18 SQ. IN. = 3.25 SQ. FT.
 3.25 SQ. FT. BETWEEN 50% - 80%
 (1 TO 300 ALLOWED)
 TOTAL ROOF VENTILATION: 5.51 SQ. FT. > 4.33 SQ. FT. (REQ'D)



ROOF PLAN ELEV. 2

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

UPDATED DATE

MASTER PLAN INFORMATION

REVISION	DATE
2-RALE	07-10-2023

DRAWN BY:
ITS

DATE:
02/08/2024

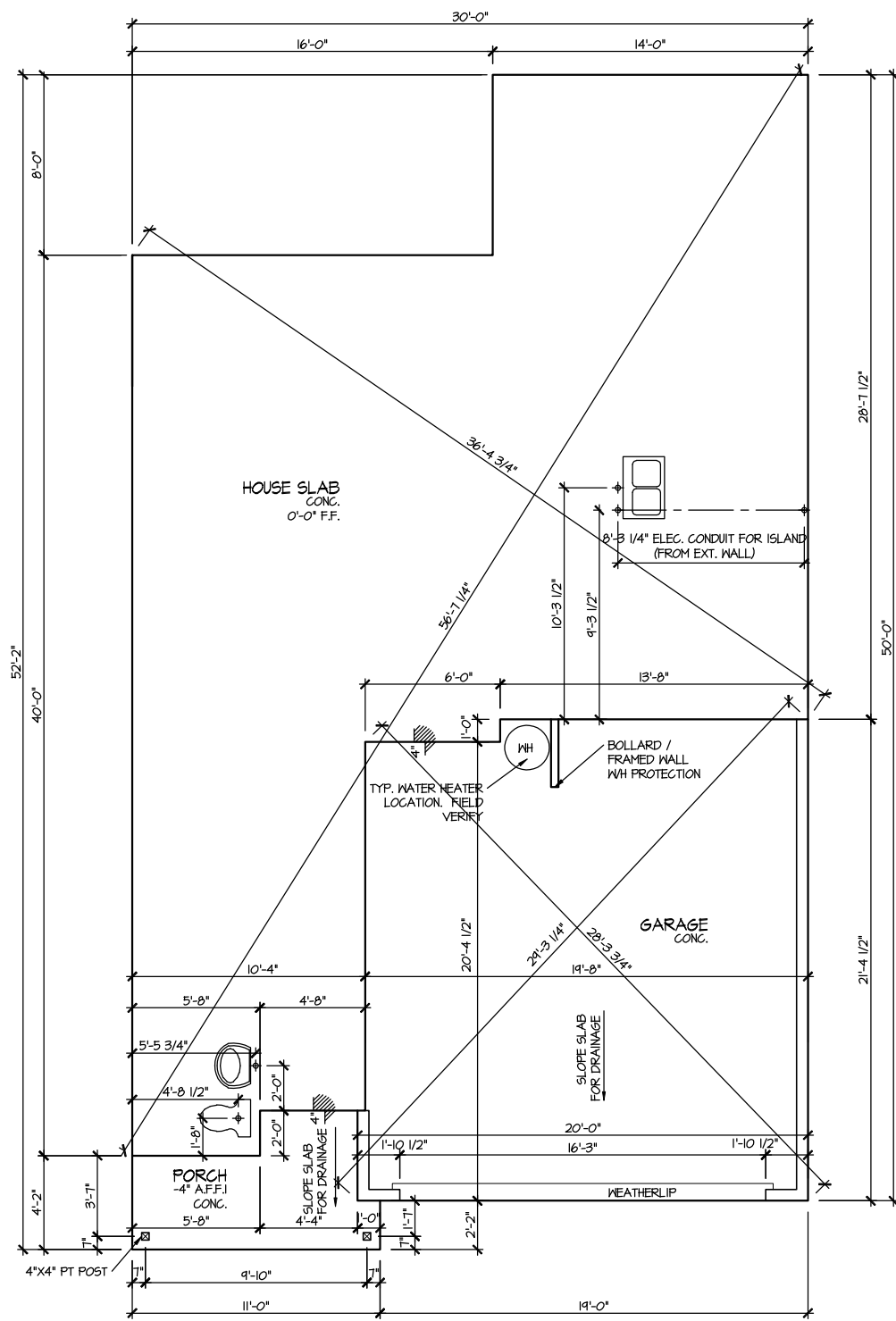
PLAN NO.
1995



HOUSE NAME:
MERLOT
DRAWING TITLE
ROOF PLAN

SHEET No.

A.3



ELEVATION 2
SLAB PLAN
SCALE: 1/8" = 1'-0"

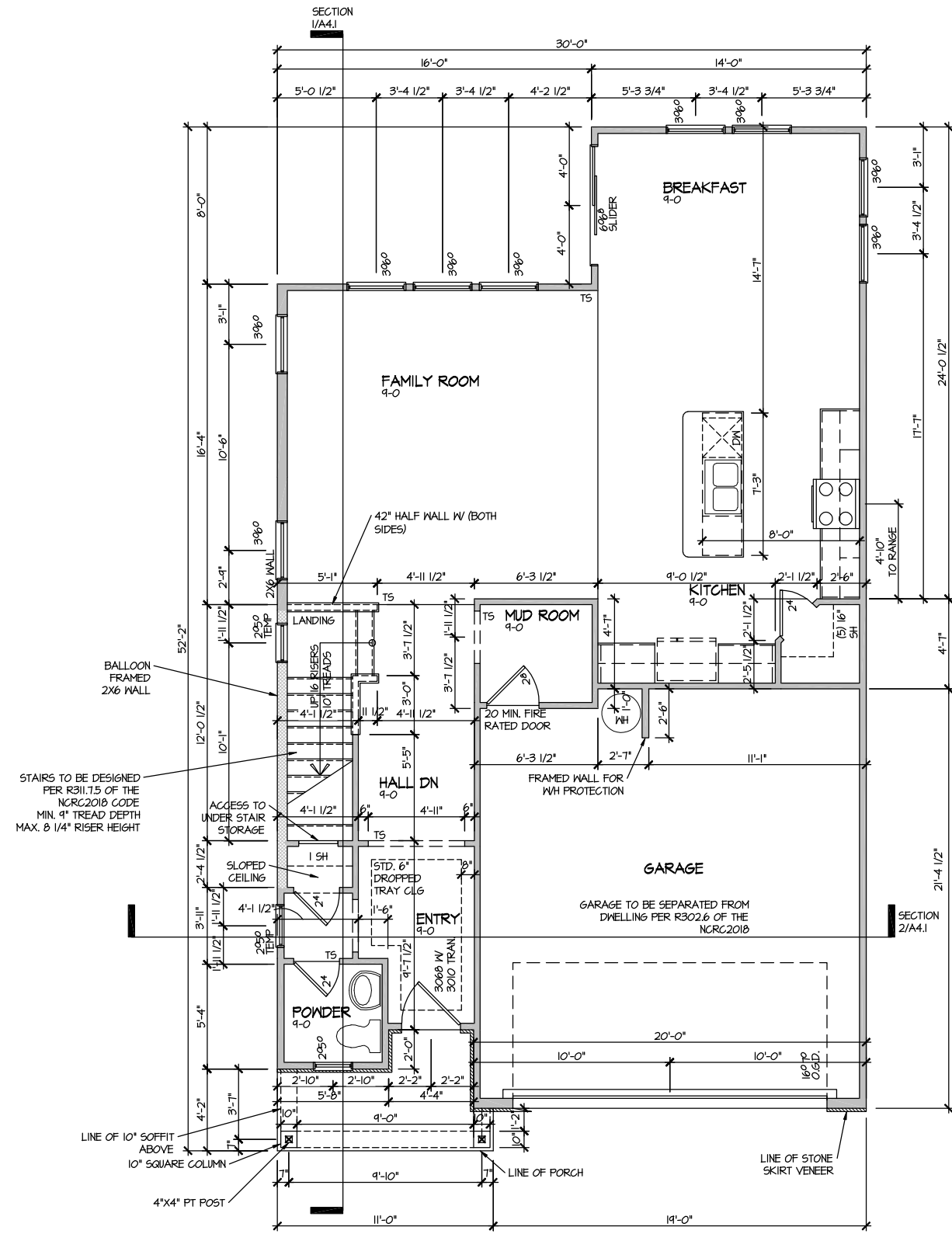
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REVISION	DATE	
2-RAL	07-10-2023	

DRAWN BY: ITS
DATE: 02/08/2024
PLAN NO. 1995



HOUSE NAME: MERLOT
DRAWING TITLE: SLAB PLAN

SHEET No. A2.1



ELEVATION 2
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

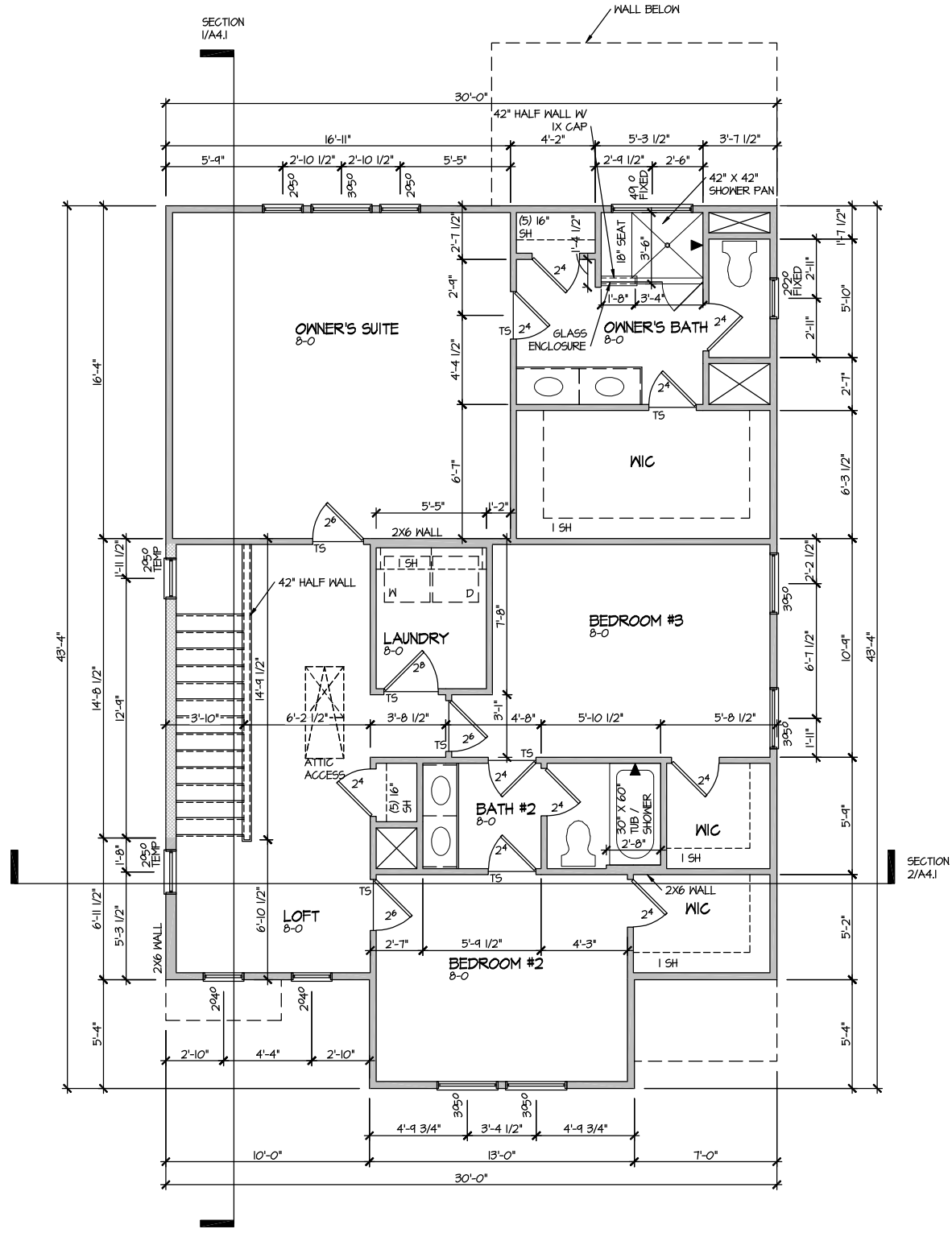
MASTER PLAN INFORMATION	
REVISION	DATE
2 - RALE	07-10-2023
UPDATED DATE	

DRAWN BY:	ITS
DATE:	02/08/2024
PLAN NO.	1995



HOUSE NAME:	MERLOT
DRAWING TITLE	FIRST FLOOR PLAN

SHEET No.	A3.1
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ELEVATION 2
SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

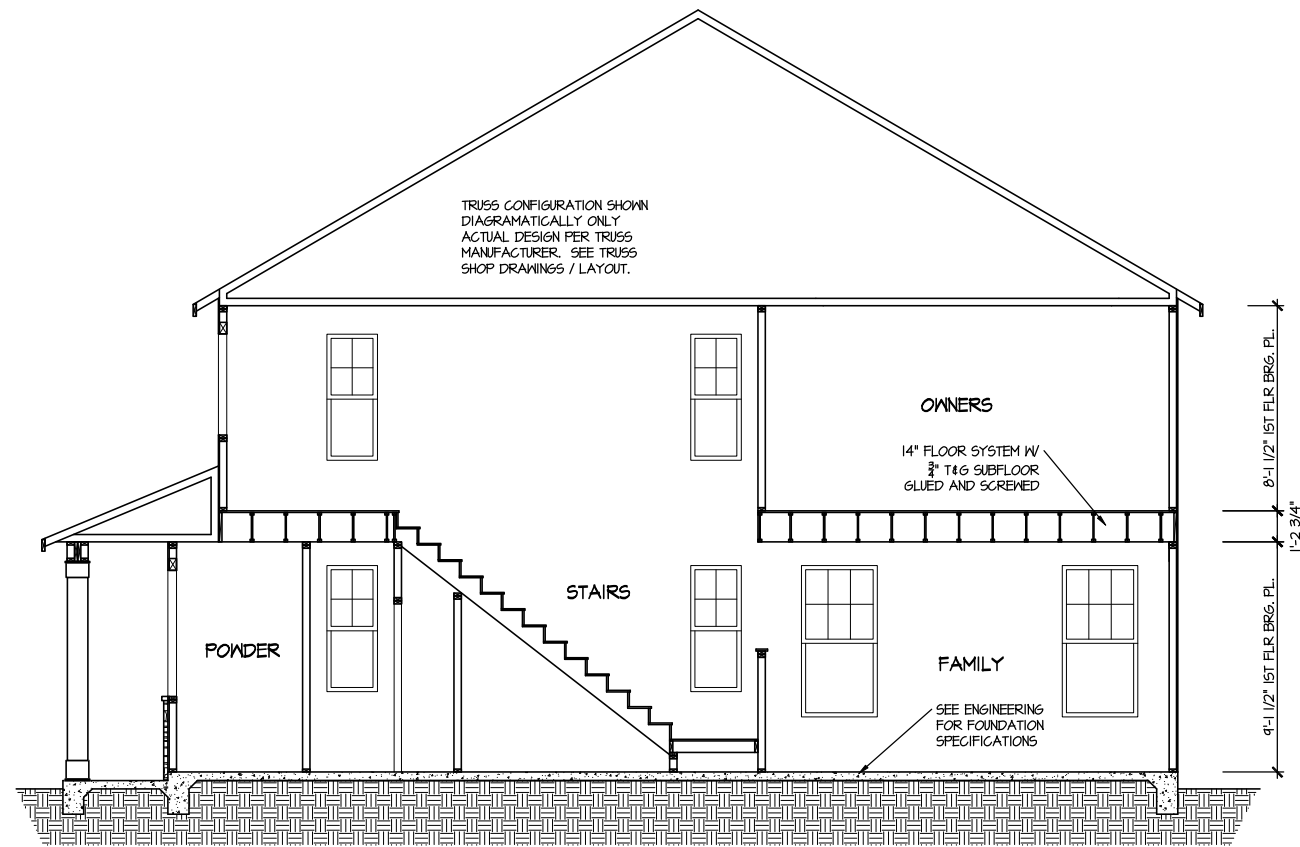
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REVISION DATE	UPDATED DATE
2-R-RALE	07-10-2023

DRAWN BY:	ITS
DATE:	02/08/2024
PLAN NO.	1995



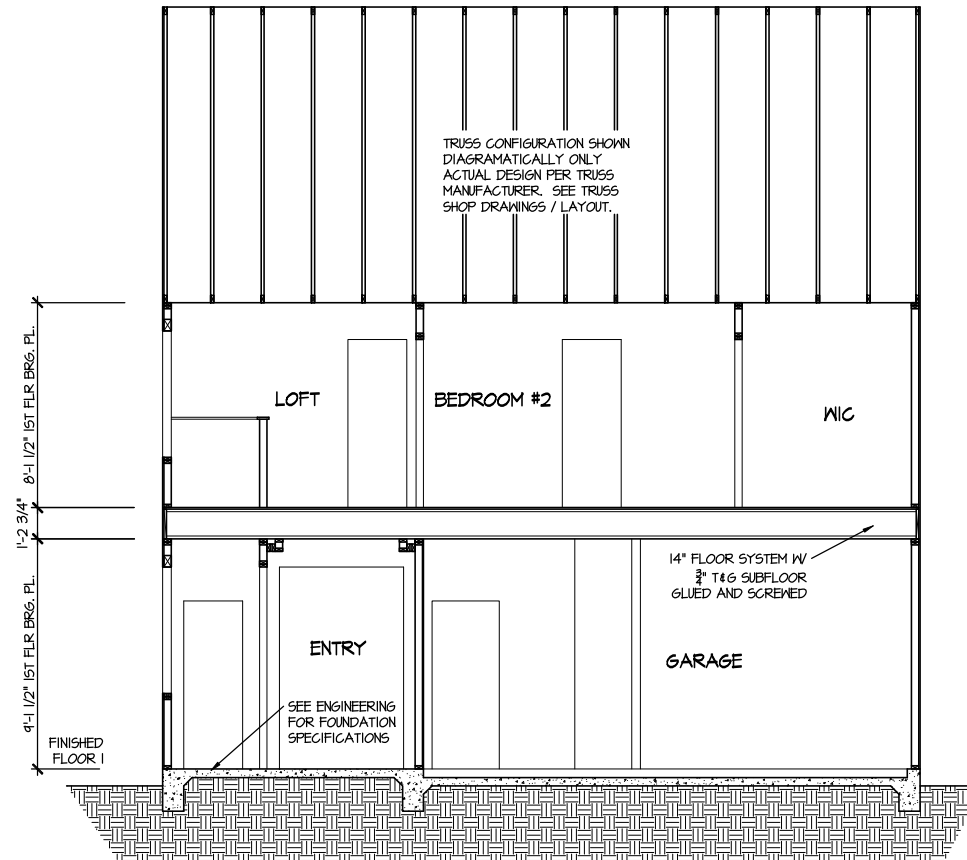
HOUSE NAME:	MERLOT
DRAWING TITLE	SECOND FLOOR PLAN

SHEET No.
A3.2



SECTION 1

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



SECTION 2

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

MASTER PLAN INFORMATION		UPDATED DATE
REVISION	DATE	
2 - RALE	07-10-2023	

DRAWN BY:	ITS
DATE:	02/08/2024
PLAN NO.	1995



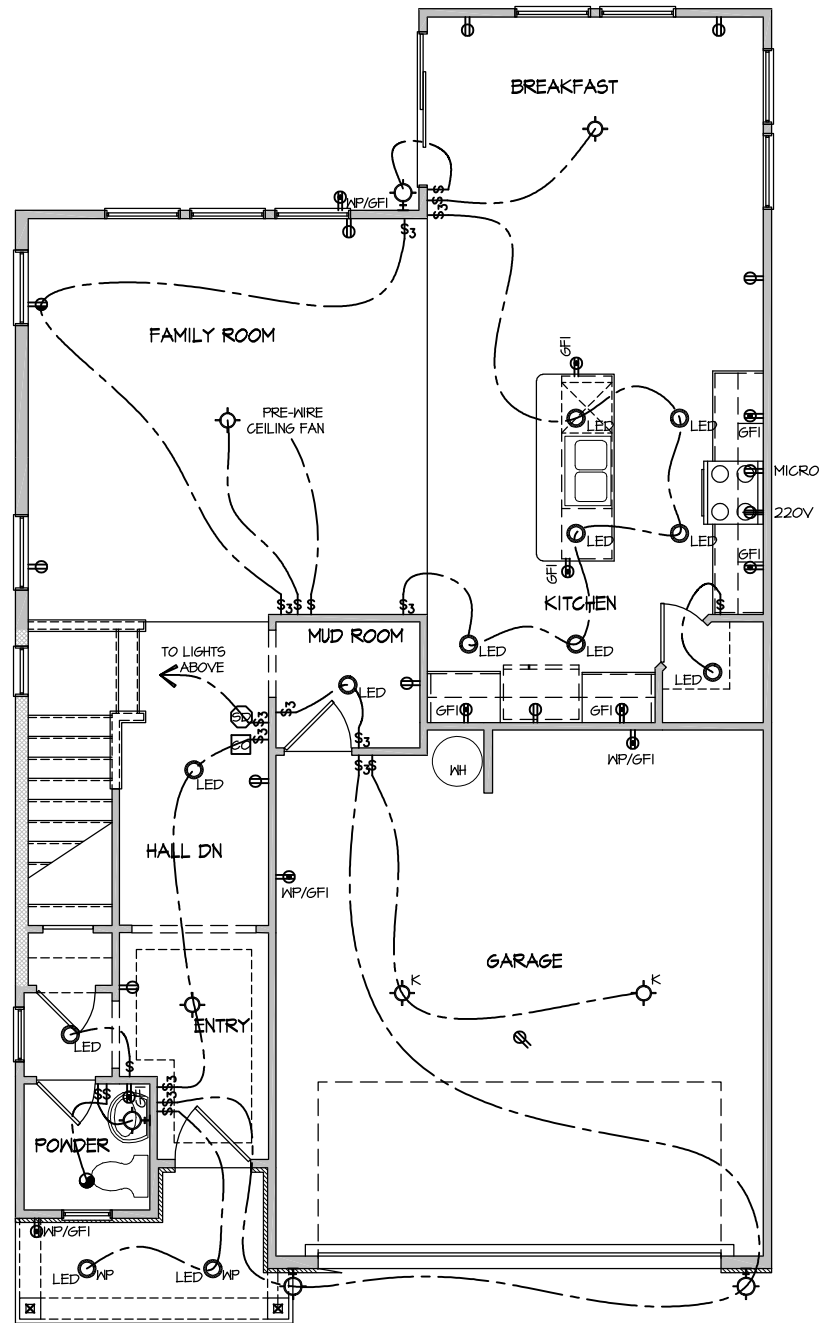
HOUSE NAME:	MERLOT
DRAWING TITLE	BUILDING SECTION

SHEET No.	A4.1
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ELECTRICAL LEGEND

- ⊠ SINGLE POLE SWITCH
- ⊠₃ THREE WAY SWITCH
- ⊠₄ FOUR WAY SWITCH
- ⊠⊠ DUPLEX AFCI RECEPTACLE
- ⊠⊠_⊕ DUPLEX AFCI RECEPTACLE - BOTTOM HALF SWITCHED
- ⊠⊠_⊕ DUPLEX AFCI RECEPTACLE - FLOOR MOUNTED
- 220V ⊠ RECEPTACLE - 220V
- ⊠⊠_{GFI} DUPLEX AFCI RECEPTACLE - GFI
- ⊠⊠_{WP/GFI} DUPLEX AFCI RECEPTACLE - WATERPROOF GFI
- ⊠⊠_{SD} SMOKE DETECTOR - WIRED IN SERIES
- ⊠⊠_{EF} EXHAUST FAN MOTOR
- ⊠⊠_{CO} CO DETECTOR
- ⊠⊠_{DC} DOOR CHIME
- ⊠⊠_L LIGHT FIXTURE - WALL MOUNTED
- ⊠⊠_C LIGHT FIXTURE - CEILING MOUNTED
- ⊠⊠_{LED} LIGHT FIXTURE - LED SURFACE MOUNTED
- ⊠⊠_P FULLCHAIN 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
FIRST FLOOR - ELEV. 2**

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

MASTER PLAN INFORMATION	
REVISION	DATE
2-RALE	07-10-2023

DRAWN BY:
ITS
DATE: 02/08/2024
PLAN NO.
1995



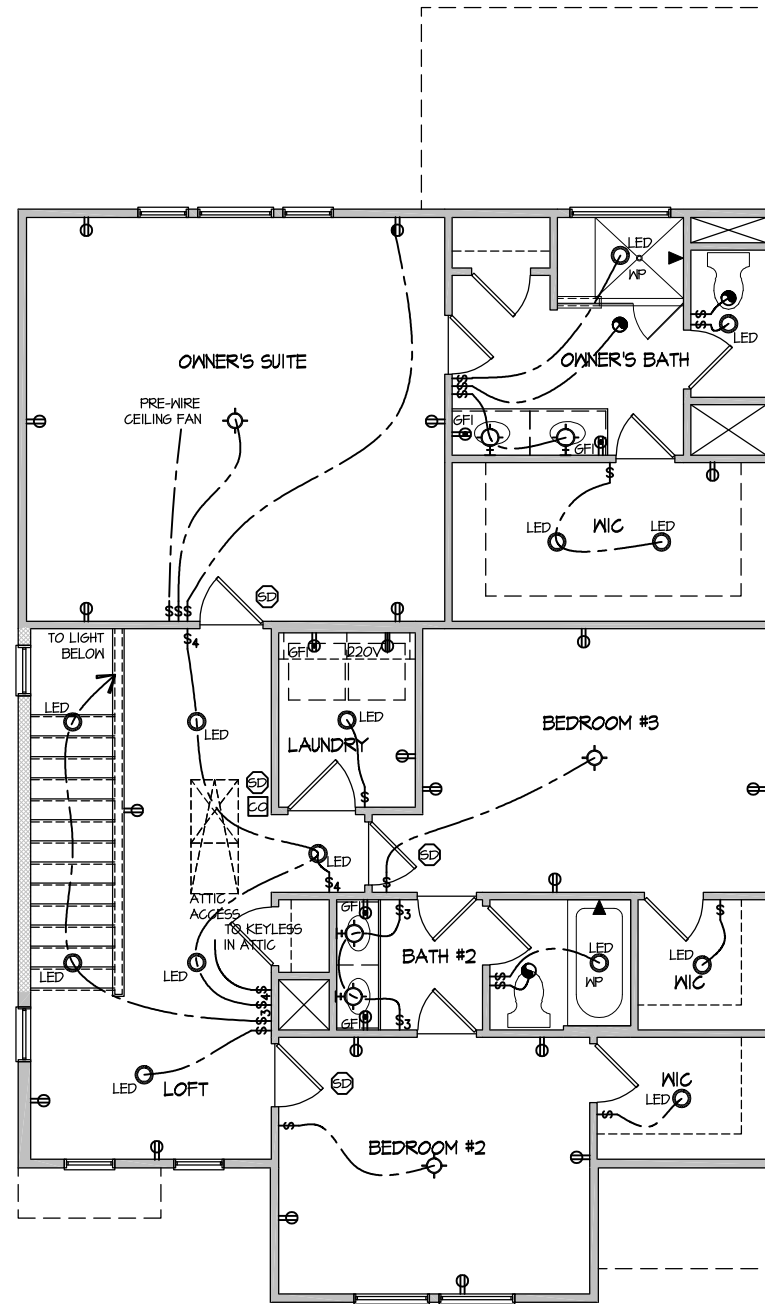
HOUSE NAME:
MERLOT
DRAWING TITLE
FIRST FLOOR ELECTRICAL

SHEET No.
E1.1

ELECTRICAL LEGEND

- ⊕ SINGLE POLE SWITCH
- ⊕₃ THREE WAY SWITCH
- ⊕₄ FOUR WAY SWITCH
- ⊖ DUPLEX AFCI RECEPTACLE
- ⊖_B DUPLEX AFCI RECEPTACLE - BOTTOM HALF SWITCHED
- ⊖_F DUPLEX AFCI RECEPTACLE - FLOOR MOUNTED
- 220V ⊖ RECEPTACLE - 220V
- ⊖_{GFI} DUPLEX AFCI RECEPTACLE - GFI
- ⊖_{WP/GFI} DUPLEX AFCI RECEPTACLE - WATERPROOF GFI
- ⊖_{SD} SMOKE DETECTOR - WIRED IN SERIES
- ⊖_{EF} EXHAUST FAN MOTOR
- ⊖_{CO} CO DETECTOR
- ⊖_{DC} DOOR CHIME
- ⊖_L LIGHT FIXTURE - WALL MOUNTED
- ⊖_C LIGHT FIXTURE - CEILING MOUNTED
- ⊖_{LED} LIGHT FIXTURE - LED SURFACE MOUNTED
- ⊖_F FULLCHAIN 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. 2**

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

MASTER PLAN INFORMATION	
REVISION	DATE
2 - RALE	07-10-2023

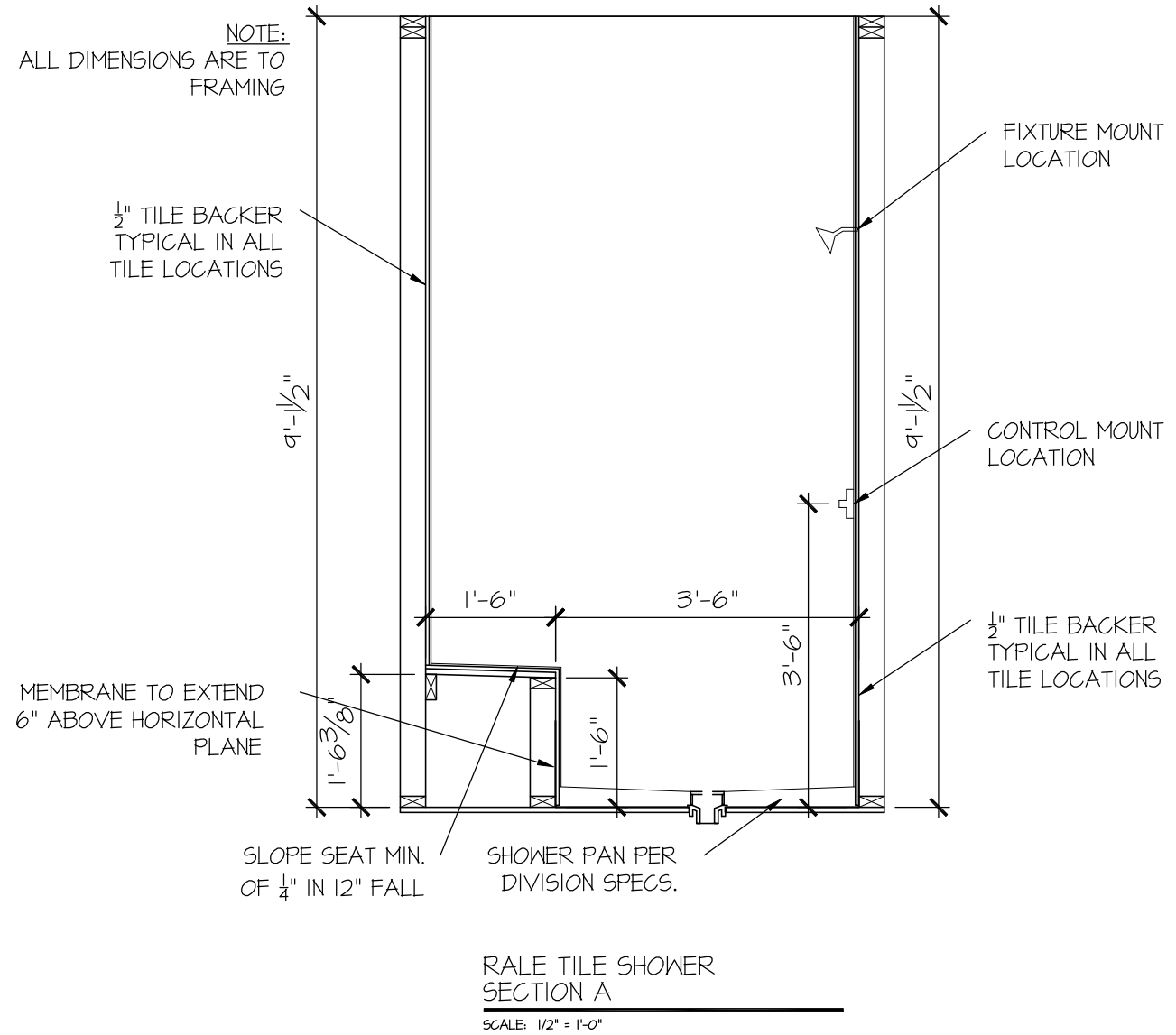
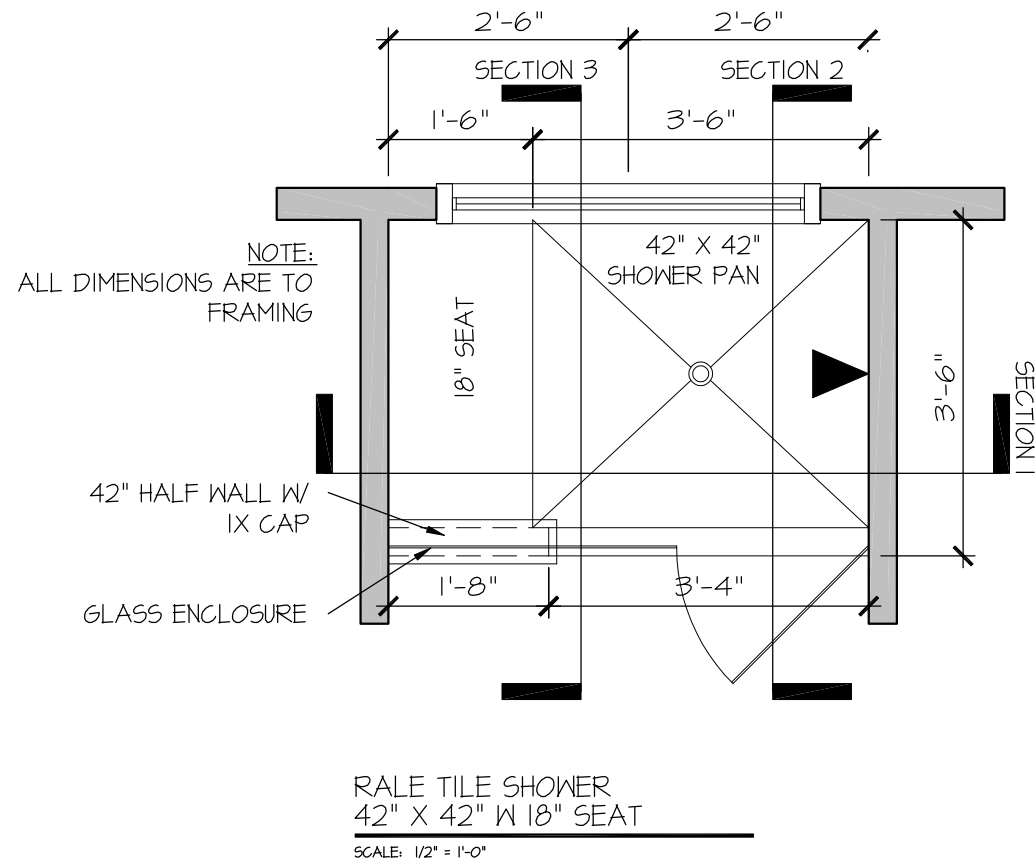
DRAWN BY:	ITS
DATE:	02/08/2024
PLAN NO.	1995



HOUSE NAME:	MERLOT
DRAWING TITLE	SECOND FLOOR ELECTRICAL

SHEET No.	E1.2
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FILE: RALE TILE SHOWER DETAIL 8-2022.dwg DATE: 09-19-2022

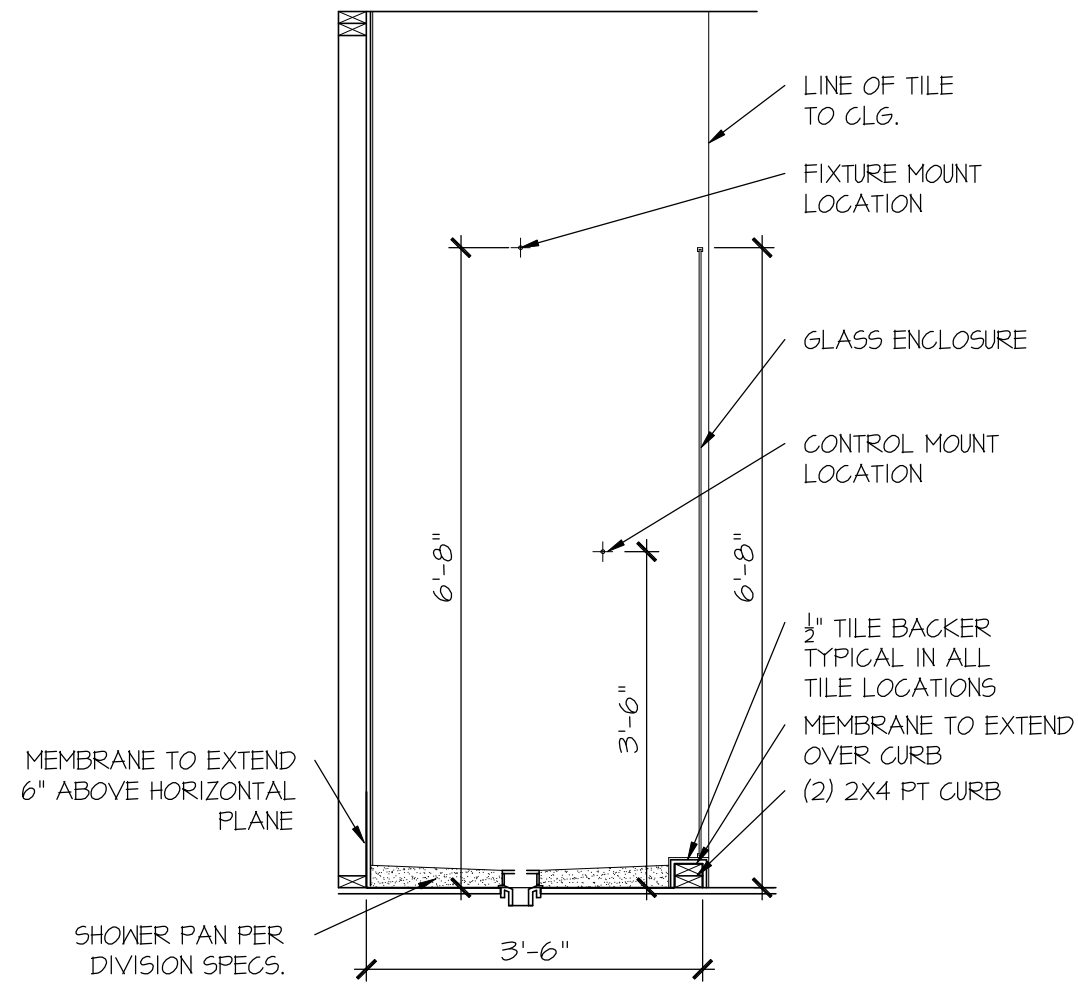


DRAWN BY:
L. BEAVERS
DATE: 9/1/22
PLAN NO.
11 X 17 SCALE
24 X 36 SCALE

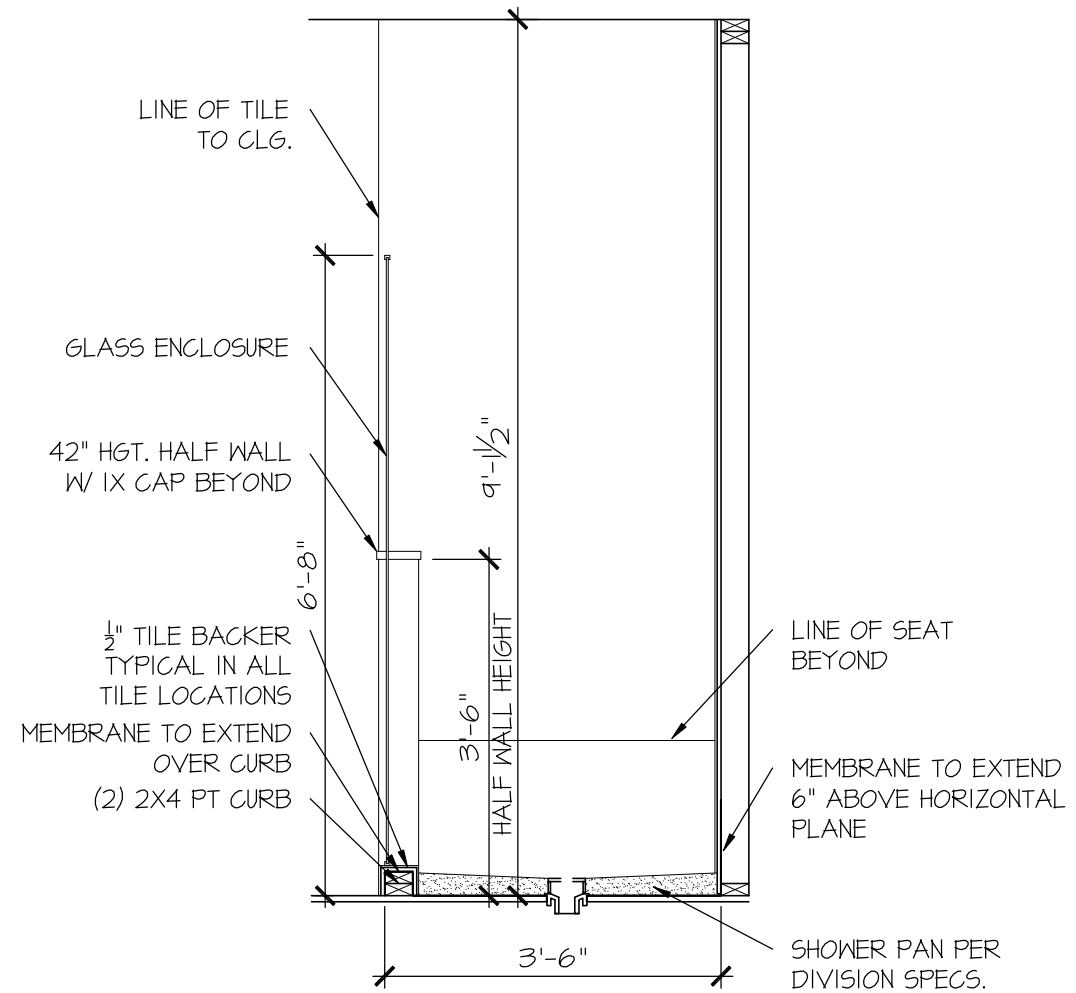


HOUSE NAME:
DRAWING TITLE
RALE TILE SHOWER DETAIL

SHEET No.
01.12



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



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

CONNECTION SPECIFICATIONS (TYP. U.N.O.)

Table with 3 columns: DESCRIPTION OF BLDG. ELEMENT, 3"x0.131" NAILS, and 3"x0.120" NAILS. Rows include JOIST TO SOLE PLATE, SOLE PLATE TO JOIST/BLK'G, STUD TO SOLE PLATE, TOP OR SOLE PLATE TO STUD, RIM TO TOP PLATE, BLK'G. BTWN. JOISTS TO TOP PL., DOUBLE STUD, DOUBLE TOP PLATE, DOUBLE TOP PLATE LAP SPLICE, and TOP PLATE LAP @ CORNERS & INTERSECTING WALLS.

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION.

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING ELEMENTS IN CONTACT WITH FLOOR FRAMING ARE LEVEL, INCLUDING, BUT NOT LIMITED TO; FOUNDATIONS, SLABS ON GRADE, BEAMS, WALLS, AND NON-BEARING ELEMENTS.

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/FLUSH BEAMS DO NOT EXCEED THE FOLLOWING: A. ROOF TRUSSES: 1/4" DEAD LOAD, 1/8" DEAD LOAD.

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.
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)

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.
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. SFF OR 5YP "STUD" GRADE LUMBER, OR BETTER, U.N.O.
ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRUCE-PINE-FIR #2 (SPPF) OR SOUTHERN PINE #2 (STP) LUMBER, OR BETTER (KILN-DRIED).
ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x "STUD" GRADE MEMBERS SPACED @ 16" O.C. (MAX. U.N.O.)
ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING: LSL' - Fb=2325 psi; Fv=310 psi; E=1.55x10^6 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.

FLOOR FRAMING

- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA.
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.

ROOF FRAMING

- BAY WINDOWS & SHED ROOFS (IF TO 6' SPAN) CAN BE 2x4 OR 2x6 RAFTERS & CEILING JOISTS @ 16/24" O.C.
FASTEN EACH ROOF TRUSS TO TOP PLATE W/ SIMPSON H25T CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS.
ERECT AND INSTALL ROOF TRUSSES PER WTCA & TP1'S BCSI 1-08 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: 120 MPH WIND IN 2018 NCSBG: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 R301.3 OF THE 2018 NCSBG:RC, OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.12 COMPLY.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBG:RC SECTION R802.11.1. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5 & R802.11.

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 3/8"x0.131" NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE PANEL FIELD.
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 (1/2" 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 (1/2" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C. IN FIELD.

3" O.C. EDGE NAILING

- AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING W/ 8d NAILS @ 3" O.C. NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC.

NOTES

- 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, 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 HOLDDOWN BELOW

HOLD-DOWN SCHEDULE

Table with 2 columns: SYMBOL and SPECIFICATION. Rows include HD-1 SIMPSON HTT4 HOLD-DOWN, HD-2 SIMPSON MSTC66 STRAP TIE, HD-3 SIMPSON STDH14/14RJ HOLD-DOWN.

ALTERNATIVE TO STDH24 ANCHOR BOLT SPECIFICATION: UTILIZE SIMPSON "SET" EPOXY SYSTEM TO FASTEN 3/8" DIA. THREADED ROD INTO CONCRETE FOUNDATION. PROVIDE 12" MIN. EMBEDMENT INTO CONCRETE.

VENEER LINTEL SCHEDULE

Table with 3 columns: SPAN (MAX), HEIGHT OF VENEER ABOVE LINTEL, and STEEL ANGLE SIZE. Rows include 3'-0", 6'-0", 8'-0", 9'-6", and 16'-0" spans with corresponding height and angle specifications.

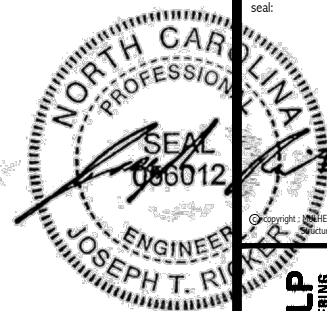
ALL LITELS: SHALL SUPPORT 2 3/8" - 3 1/2" VENEER W/ 40 psf MAXIMUM HEIGHT.
1) SHALL HAVE 4" MIN BEARING
2) SHALL HAVE 8" MIN BEARING
3) SHALL NOT BE FASTENED BACK TO HEADER
4) SHALL BE FASTENED BACK TO WOOD HEADER IN WALL @ 48" O.C. W/ 1/2" DIA. x 3 1/2" LONG LAG SCREWS IN 2" LONG VERTICALLY SLOTTED HOLES.

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.
FASTEN 2x4/6 SILL PLATES TO FIND WITH A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAX. FROM PLATE ENDS - UTILIZING: 1/2" DIA. ANCHOR BOLTS @ 6'-0" O.C., 1" 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)
CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.:
FOUNDATION WALLS: 4,000 psi
FOOTINGS & INTERIOR SLABS ON GRADE: 2,500 psi
EXTERIOR SLABS ON GRADE: 3,000 psi
BASEMENT FOUNDATION WALL DESIGN BASED ON: 9" OR 10" HEIGHT (AS NOTED ON PLANS)
TALLER WALLS MUST BE ENGINEERED.
NOMINAL WIDTH (1 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 (2)2x6 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 1% 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 1900 psi (Fm=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) - 9 GA. MINIMUM @ 16" O.C.
PROVIDE 2x8 x 16" LONG P.T. PLATE ON TOP OF ALL CRANL SPACE PIERS. ALL PIERS SHALL BE GROUTED SOLID.
PROVIDE 2x6 P.T. PLATE ON INTERIOR CRANL 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



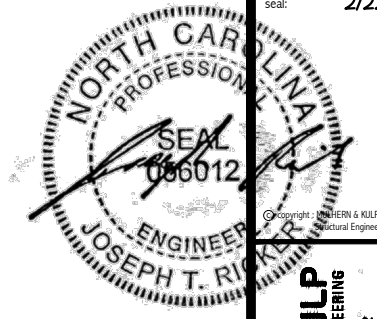
M&K project number: 126-22076

project mgr: JTR
drawn by: KFG
issue date: 02-13-24

REVISIONS:
date: initial:



STRUCTURAL NOTES
FARM AT NEIL'S CREEK
LOT 192 - MERLOT 2
RALEIGH, NC



M&K project number:
126-22076

project mgr: JTR
drawn by: KFG
issue date: 02-13-24

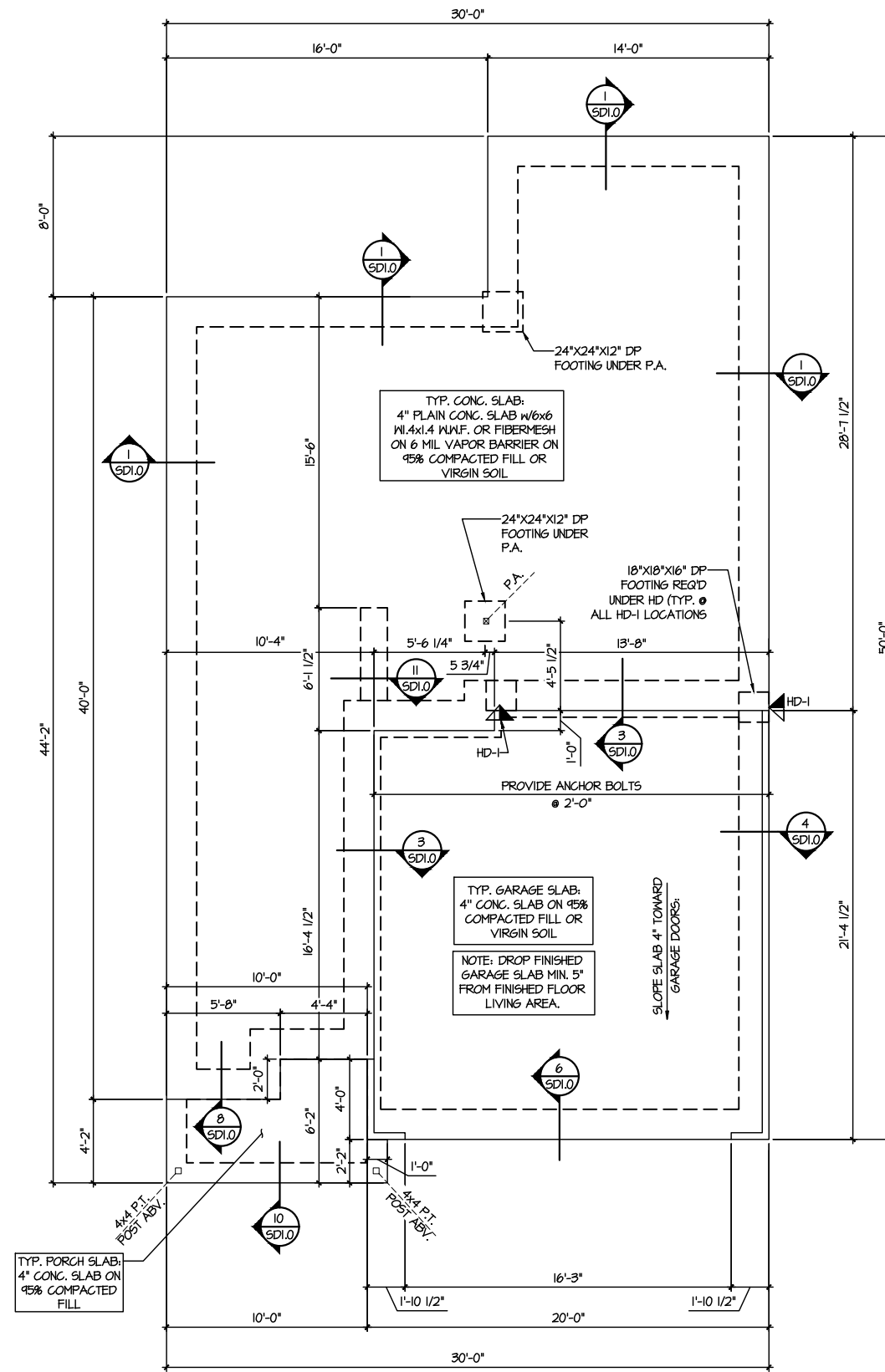
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FOUNDATION PLANS
FARM AT NEIL'S CREEK
LOT 192 - MERLOT 2
RALEIGH, NC

sheet:

S1.0

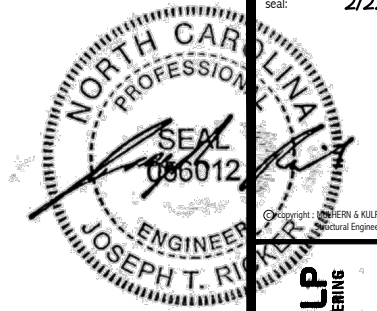


1 MONO SLAB FOUNDATION PLAN
SCALE: 1/8"=1'-0"

LEGEND

- [Symbol] INTERIOR BEARING WALL
- [Symbol] BEARING WALL ABOVE
- [Symbol] BEAM / HEADER
- [Symbol] INDICATES SHEAR WALL & EXTENT
- [Symbol] 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 50.0 FOR
TYPICAL STRUCTURAL NOTES
& SCHEDULES



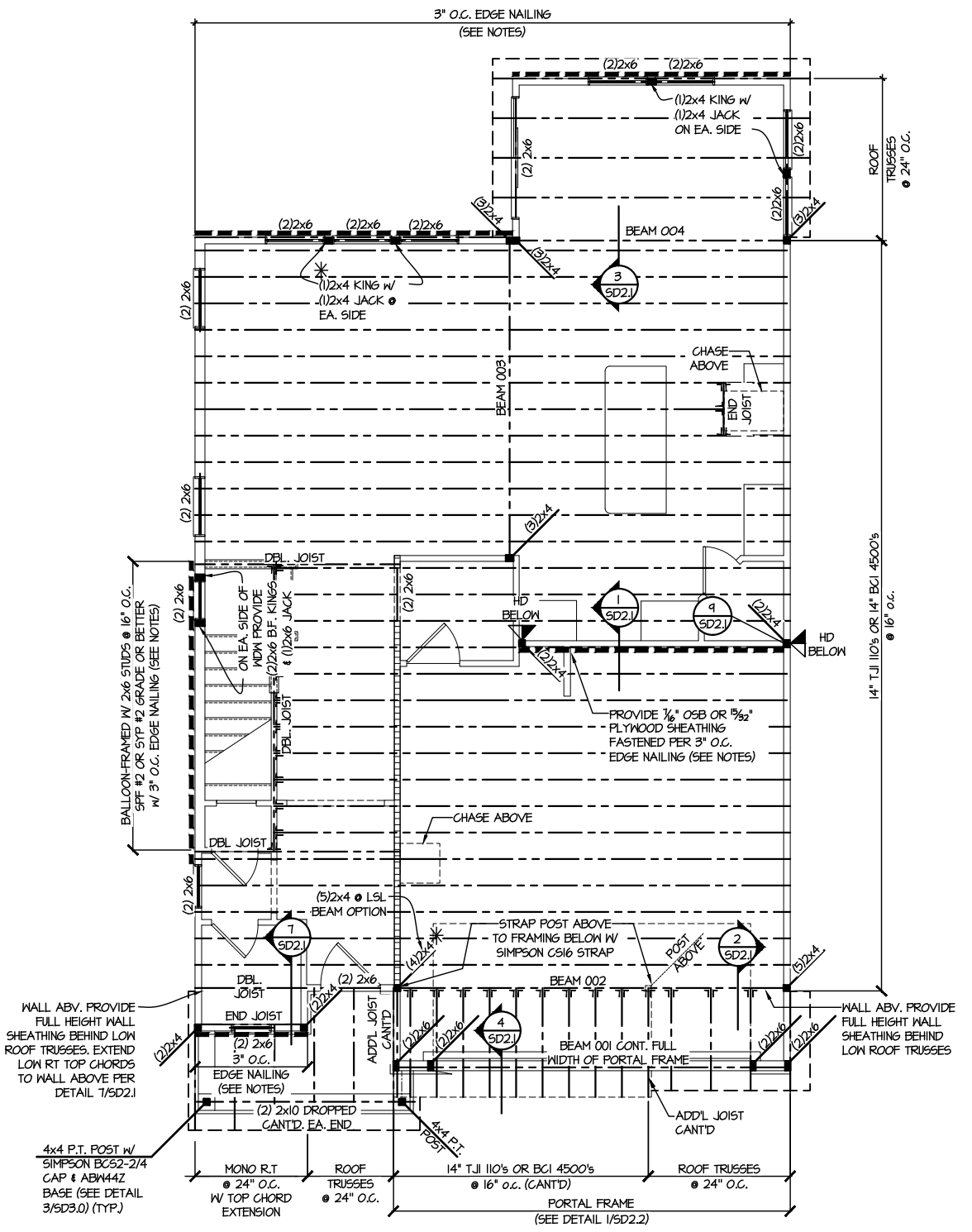
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NC LIC. #C-3825

M&K project number:
126-22076
project mgr: JTR
drawn by: KFG
issue date: 02-13-24
REVISIONS:
date: initial:



FLOOR FRAMING PLANS
FARM AT NEIL'S CREEK
LOT 192 - MERLOT 2
RALEIGH, NC

sheet:
S2.0



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

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

REFER TO 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" x 11 1/2" - H	3 1/2" x 11 1/2" - H	(3) 3/4" x 11 1/2" - H	(3) 2x12 + (2) 1/4" x 11 1/2" STEEL FLITCH PLATES - H	N/A
002	(4) 3/4" x 14" - F	1" x 14" - F	(5) 3/4" x 14" - F	(4) 2x12 + (3) 1/4" x 14" STEEL FLITCH PLATES - FB	W12x19 - F
003	(2) 3/4" x 14" - D	3 1/2" x 14" - D	(3) 3/4" x 14" - D	(3) 2x12 + (2) 3/4" x 14" STEEL FLITCH PLATES - D	W8x10 - D
004	(2) 3/4" x 14" - F	3 1/2" x 14" - F	(3) 3/4" x 14" - F	(2) 2x12 + (1) 1/4" x 14" STEEL FLITCH PLATES - FB	W12x14 - F
005	(2) 3/4" x 16" - H	3 1/2" x 16" - H	(3) 3/4" x 16" - H	(3) 2x12 + (2) 1/4" x 16" STEEL FLITCH PLATES - H	N/A
006	(2) 3/4" x 14" - D	3 1/2" x 14" - D	(2) 3/4" x 14" - D	(2) 2x12 + (1) 1/4" x 14" 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.

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



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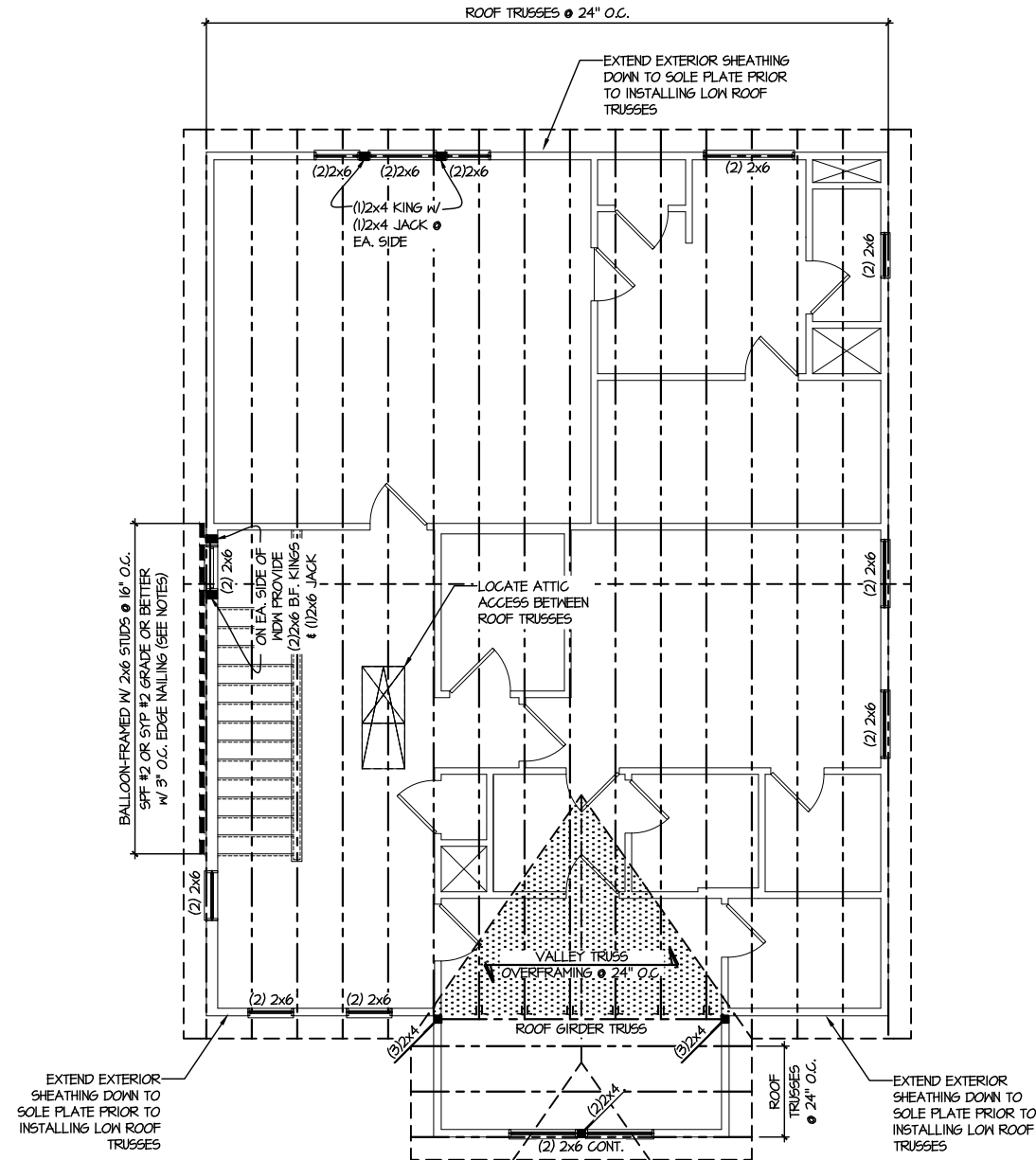
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ROOF FRAMING PLANS
FARM AT NEIL'S CREEK
LOT 192 - MERLOT 2
RALEIGH, NC

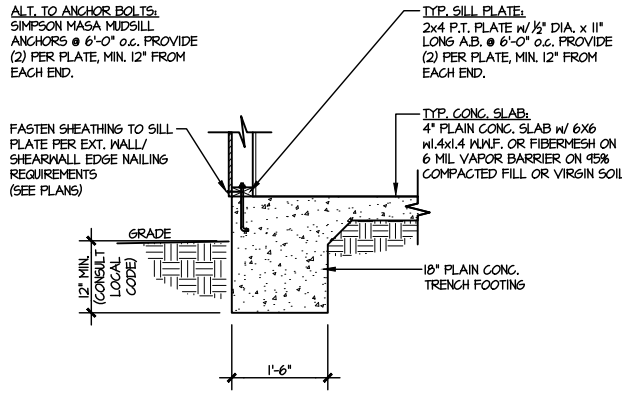
sheet:
S3.0



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

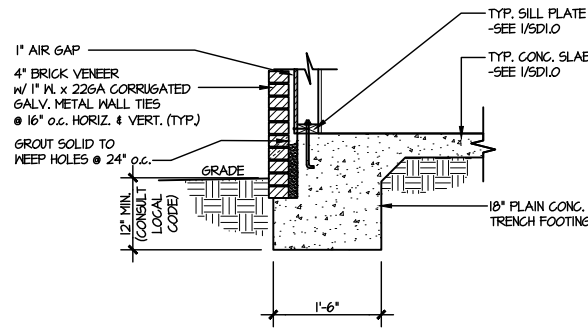
LEGEND	
	INTERIOR BEARING WALL
	BEARING WALL ABOVE
	BEAM / HEADER
	INDICATES SHEAR WALL & EXTENT
	EXTENT OF OVERFRAMING
	JL METAL HANGER
	* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
	INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

**REFER TO SO.0 FOR
TYPICAL STRUCTURAL NOTES
& SCHEDULES**



1 TYPICAL SLAB ON GRADE PERIMETER FOOTING

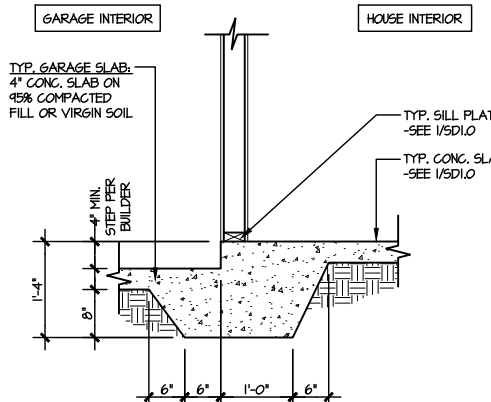
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2 TYPICAL SLAB ON GRADE PERIMETER FOOTING

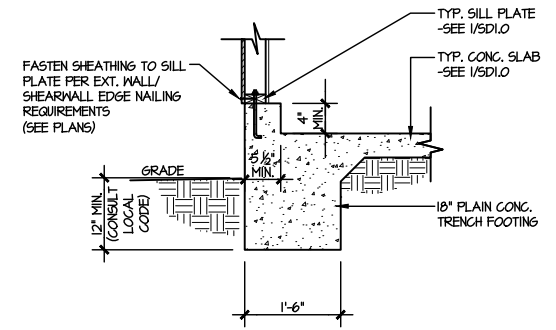
SCALE: 3/8"=1'-0"

w/ BRICK VENEER



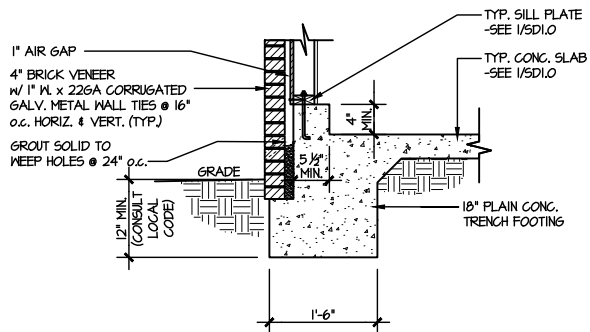
3 TYPICAL MONOLITHIC INTERIOR GARAGE FOOTING

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



4 TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING

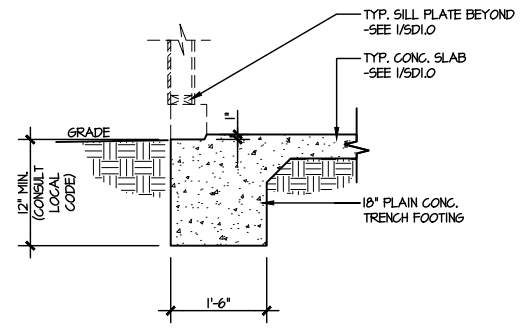
SCALE: 3/8"=1'-0"



5 TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING

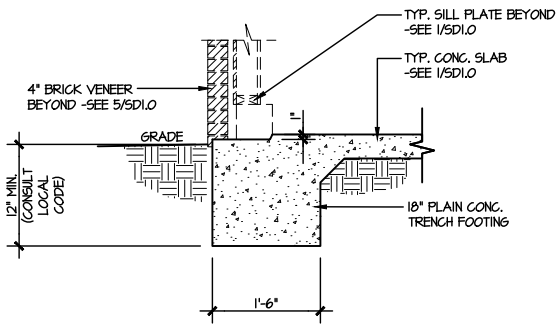
SCALE: 3/8"=1'-0"

w/ BRICK VENEER



6 TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING

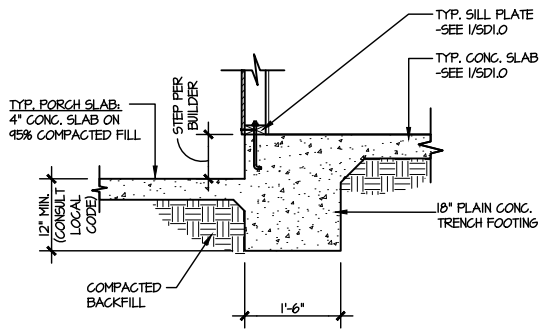
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7 TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING

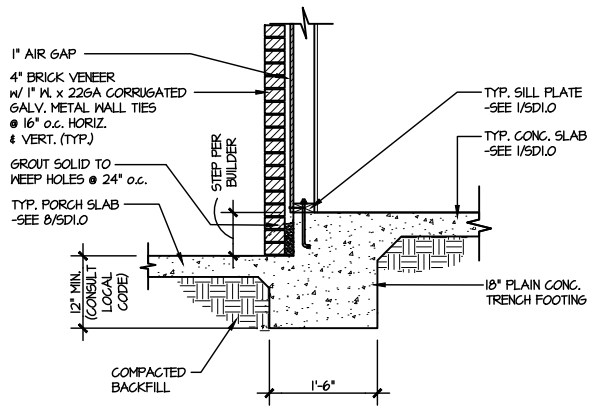
SCALE: 3/8"=1'-0"

w/ BRICK VENEER



8 TYPICAL SLAB ON GRADE PERIMETER FOOTING @ PORCH/PATIO

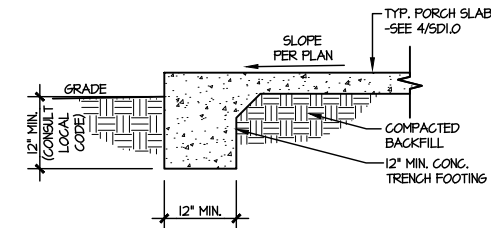
SCALE: 3/8"=1'-0"



9 TYPICAL SLAB ON GRADE PERIMETER FOOTING @ PORCH/PATIO

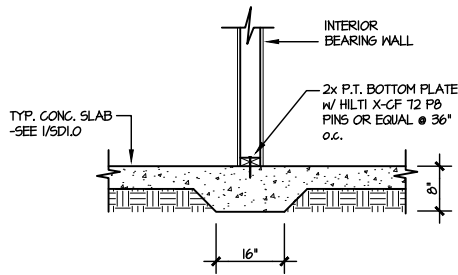
SCALE: 3/8"=1'-0"

w/ BRICK VENEER



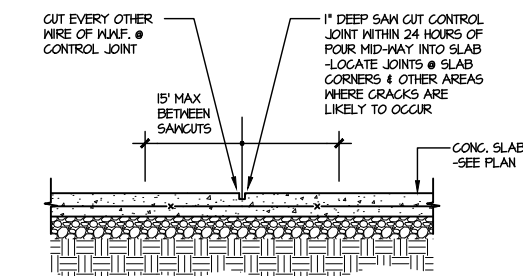
10 TYPICAL FOOTING @ PORCH SLAB

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



11 TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL

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



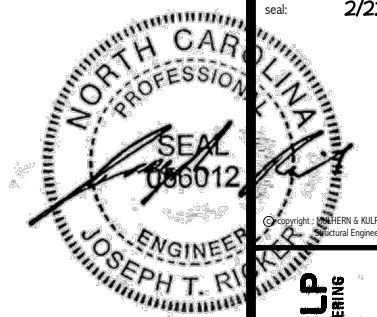
A TYPICAL CONTROL JOINT

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.

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M&K project number: 126-22076

project mgr: JTR

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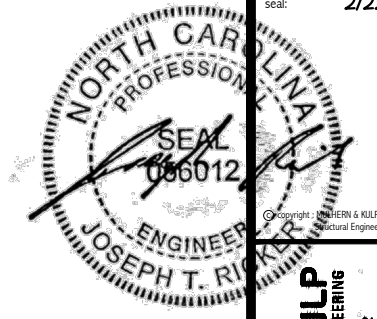
REVISIONS:

date: initial:



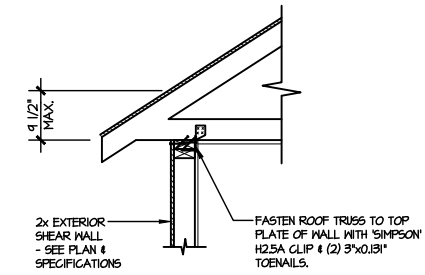
FOUNDATION DETAILS
FARM AT NEIL'S CREEK
LOT 192 - MERLOT 2
RALEIGH, NC

sheet: **SD1.0**

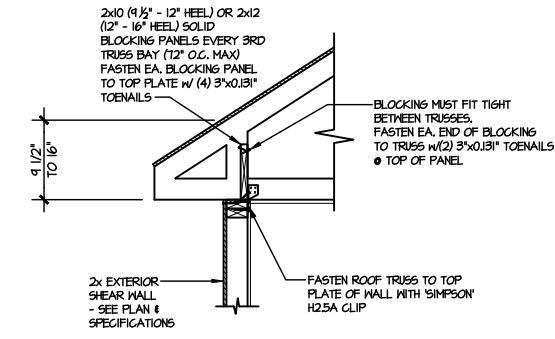


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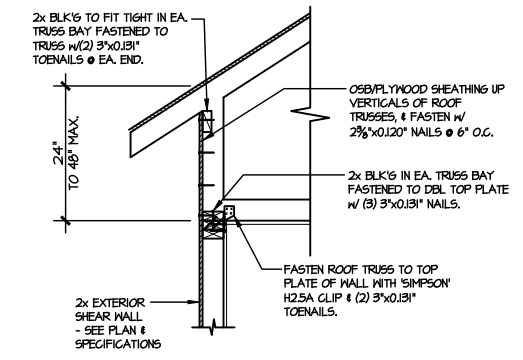
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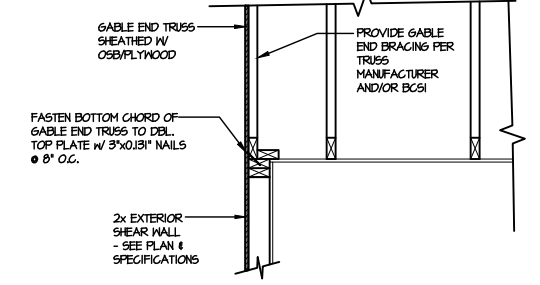
(A1) TYPICAL SHEAR TRANSFER DETAIL @ ROOF
SCALE: 3/8\"/>



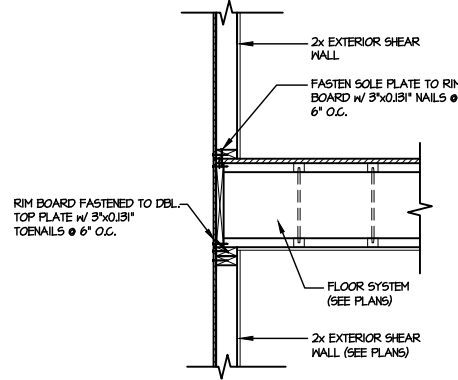
(A2) TYPICAL SHEAR TRANSFER DETAIL @ ROOF
SCALE: 3/8\"/>



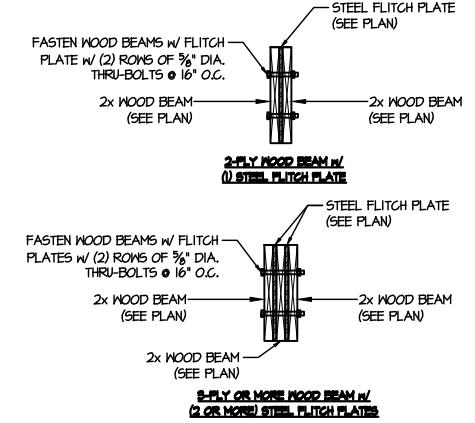
(A3) TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS
SCALE: 3/8\"/>



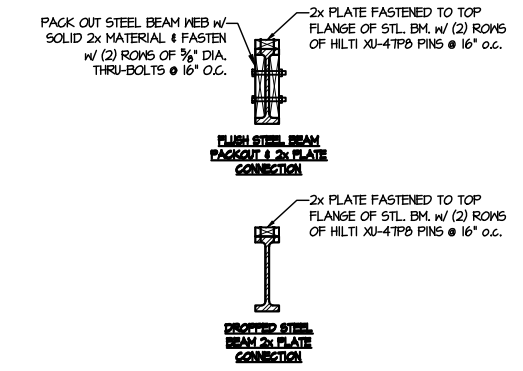
(B) TYPICAL GABLE END DETAIL
SCALE: 3/8\"/>



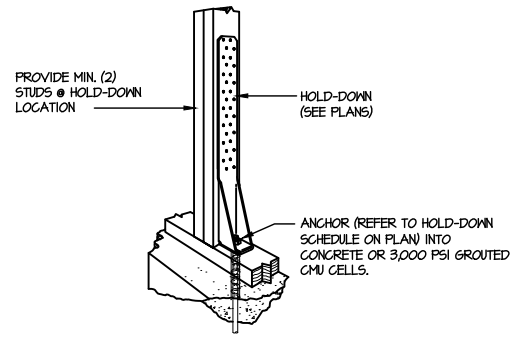
(C) TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
SCALE: 3/8\"/>



(D) TYPICAL FITCH BEAM CONNECTION DETAIL
SCALE: 3/4\"/>



(E) TYPICAL STEEL BEAM CONNECTION DETAIL
SCALE: 3/4\"/>



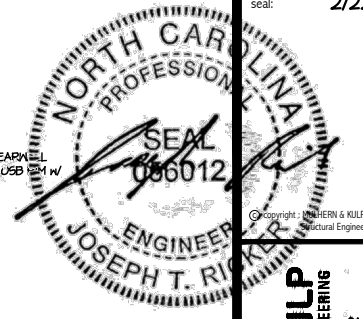
(F1) TYPICAL HOLD DOWN INSTALLATION
SCALE: N.T.S.

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FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 192 - MERLOT 2
RALEIGH, NC



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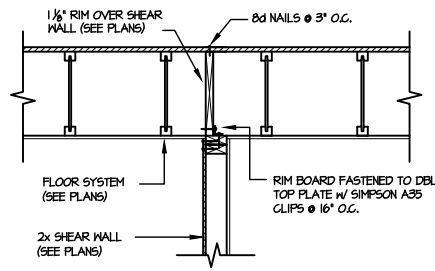


M&K project number:
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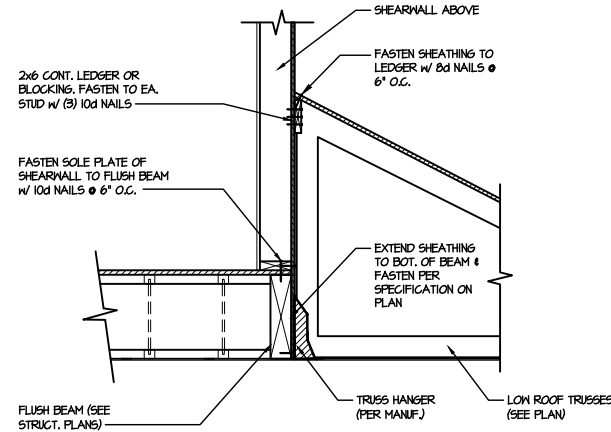
REVISIONS:
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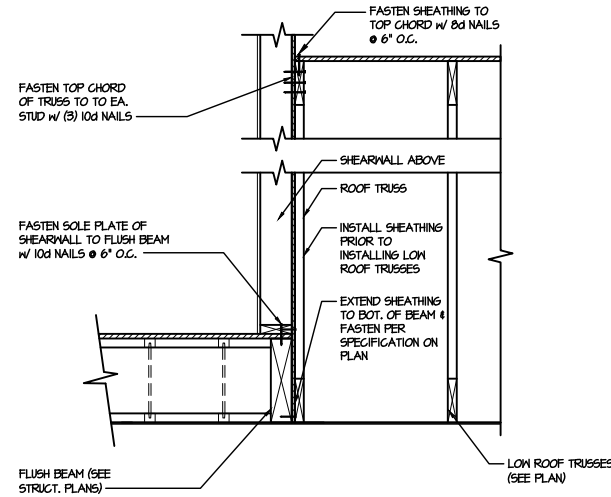
FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 192 - MERLOT 2
RALEIGH, NC



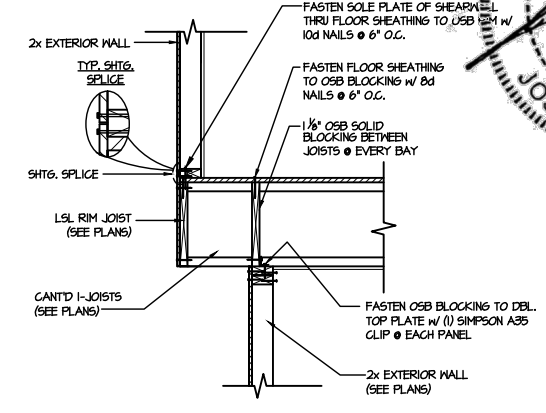
1 SHEAR TRANSFER DETAIL @ INTERIOR SHEAR WALL
SCALE: 3/4"=1'-0" PARALLEL TO FRAMING ONLY REVD WHERE NOTED ON PLAN



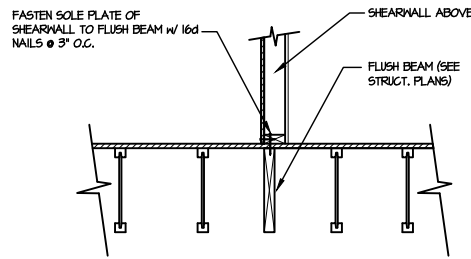
2 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE
SCALE: 3/4"=1'-0"



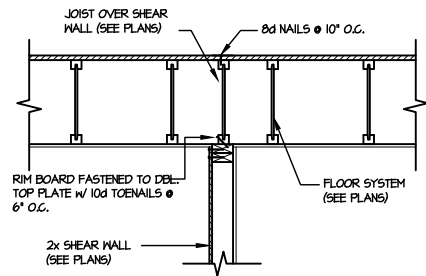
3 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE
SCALE: 3/4"=1'-0"



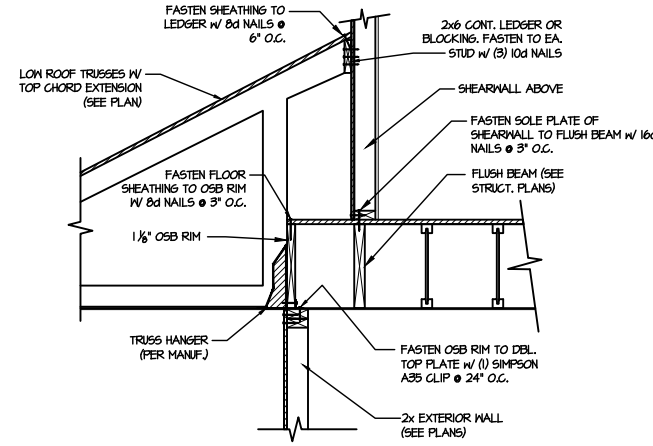
4 SHEAR TRANSFER DETAIL BETWEEN FLOORS @ CANT'D EXT. WALL
SCALE: 3/4"=1'-0" PERPENDICULAR FRAMING



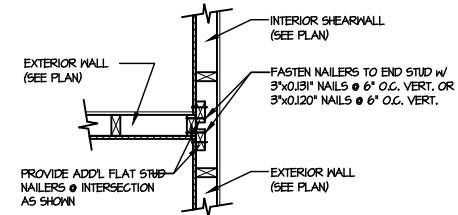
5 SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL ABOVE
SCALE: 3/4"=1'-0" PARALLEL FRAMING



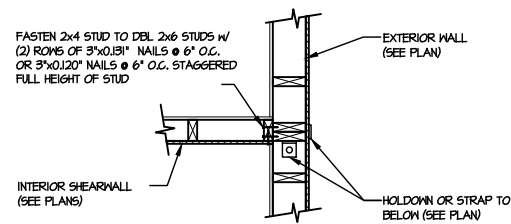
6 SHEAR TRANSFER DETAIL @ INTERIOR SHEAR WALL
SCALE: 3/4"=1'-0" PARALLEL TO FRAMING ONLY REVD WHERE NOTED ON PLAN



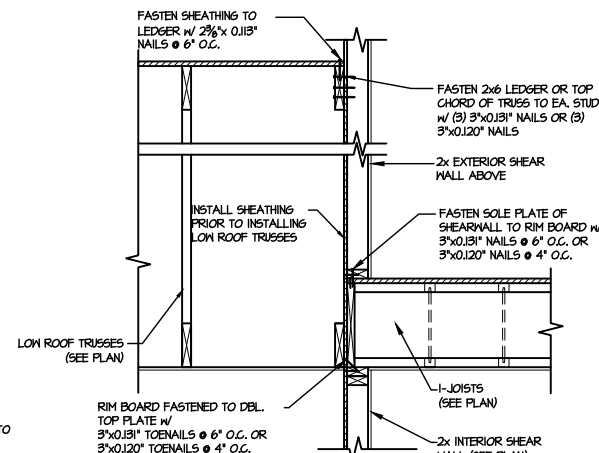
7 SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL ABOVE
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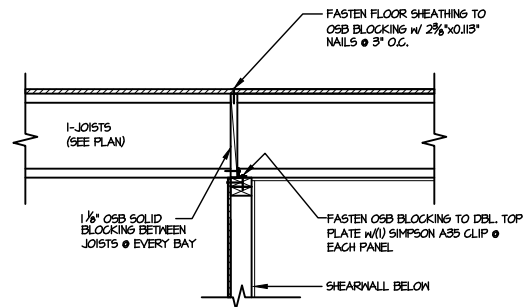
8 SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARWALL
SCALE: 3/4"=1'-0" SHTR. ON SAME PAGE



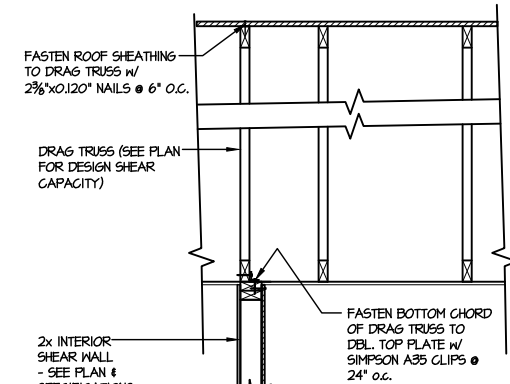
9 SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARWALL
SCALE: N.T.S.



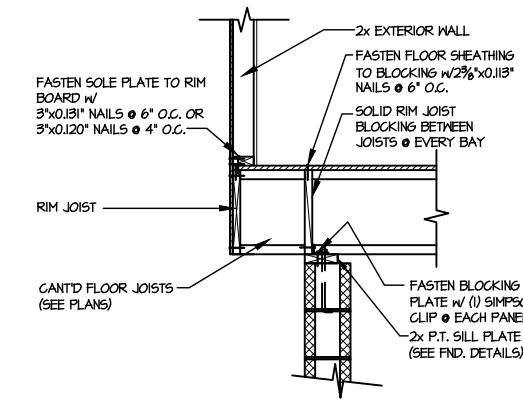
10 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL
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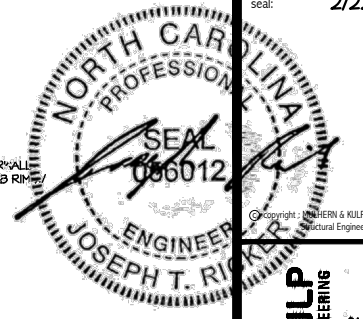
11 SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW
SCALE: 3/4"=1'-0" PERPENDICULAR FRAMING



12 INTERIOR DRAG TRUSS DETAIL
SCALE: 3/4"=1'-0"



13 SHEAR TRANSFER DETAIL @ CANT'D EXTERIOR WALL
SCALE: 3/4"=1'-0"



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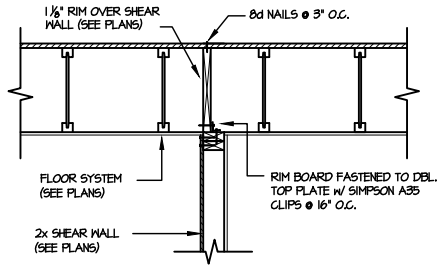


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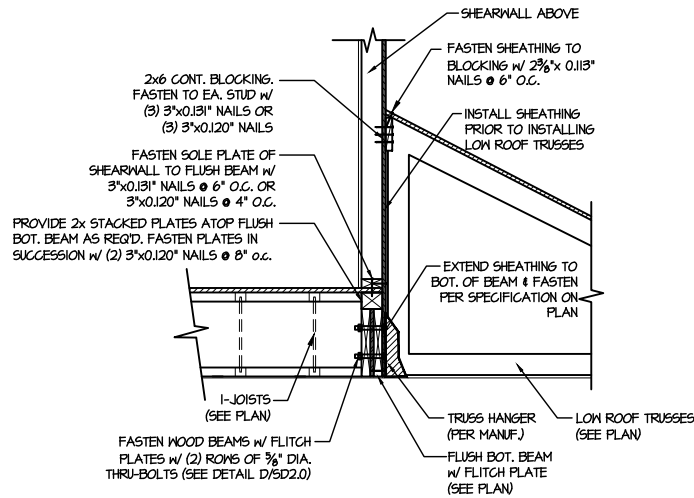
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date: initial:

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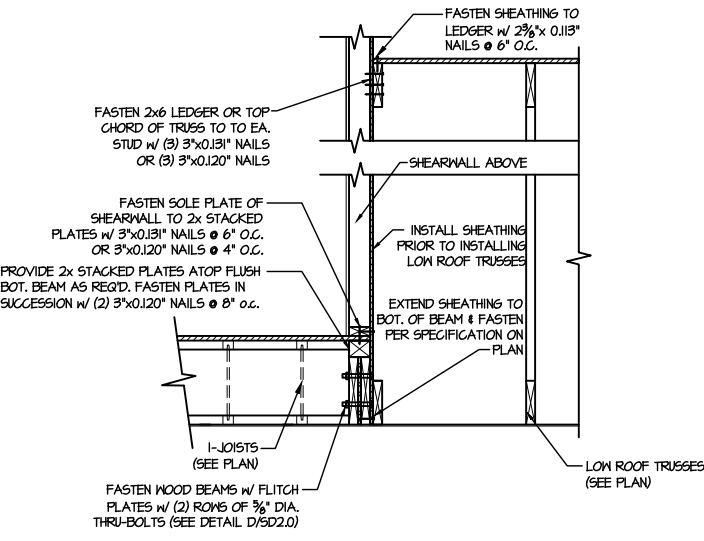
FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 192 - MERLOT 2
RALEIGH, NC



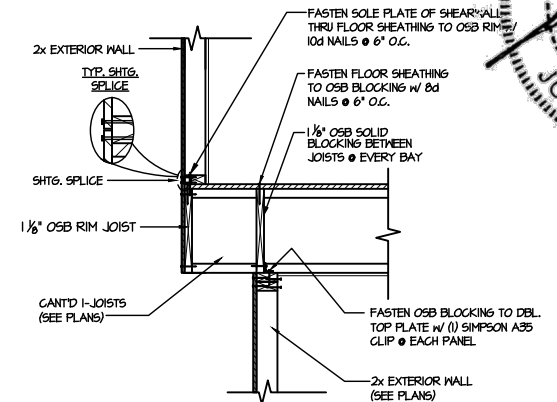
1 SHEAR TRANSFER DETAIL @ INTERIOR SHEAR WALL
SCALE: 3/4\"/>



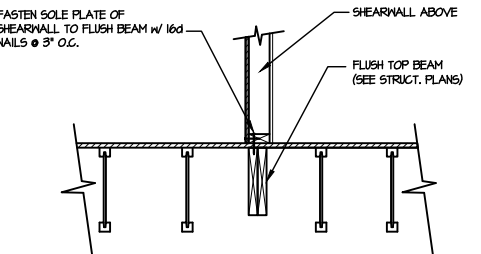
2 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE
SCALE: 3/4\"/>



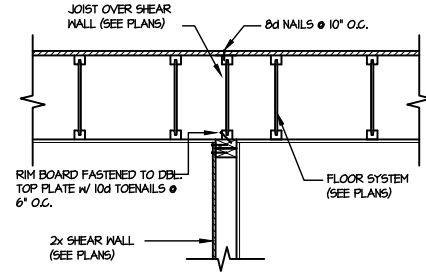
3 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE
SCALE: 3/4\"/>



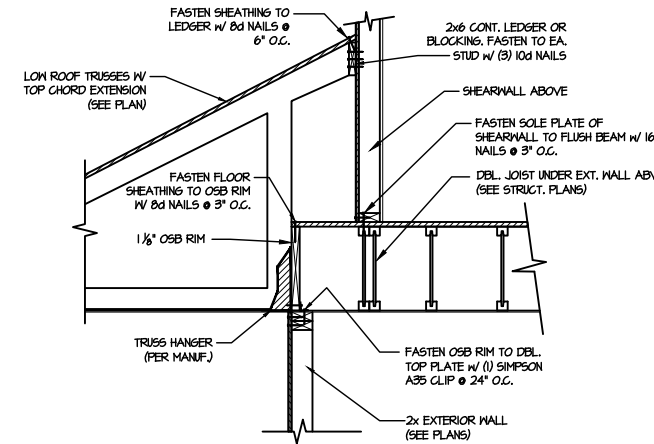
4 SHEAR TRANSFER DETAIL BETWEEN FLOORS @ CANT'D EXT. WALL
SCALE: 3/4\"/>



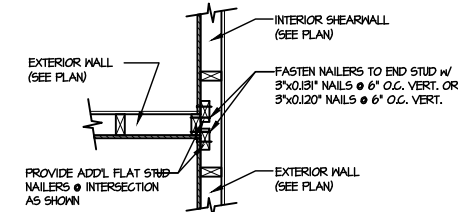
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SCALE: 3/4\"/>



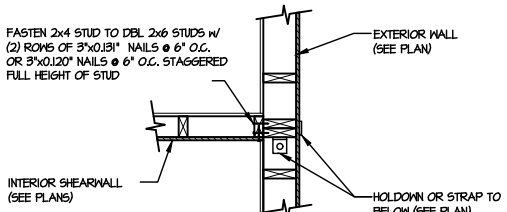
6 SHEAR TRANSFER DETAIL @ INTERIOR SHEAR WALL
SCALE: 3/4\"/>



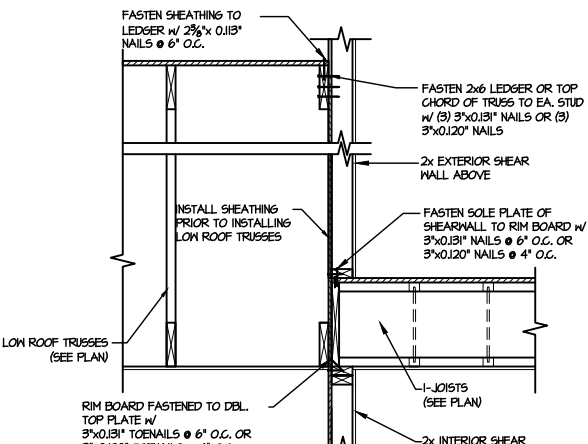
7 SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL ABOVE
SCALE: 3/4\"/>



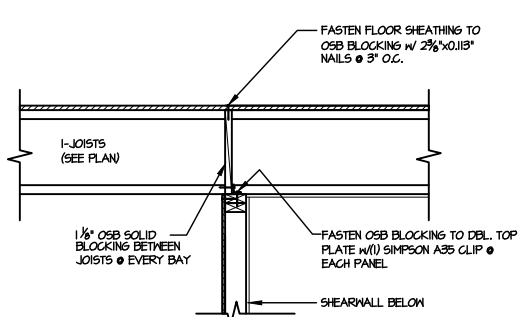
8 SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARWALL
SCALE: 3/4\"/>



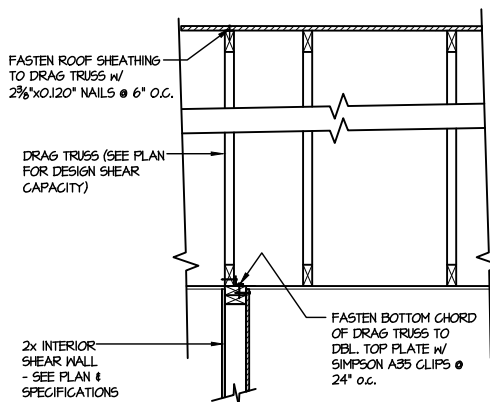
9 SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARWALL
SCALE: N.T.S.



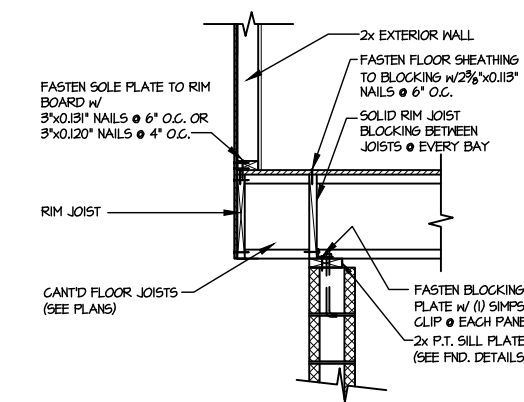
10 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL
SCALE: 3/4\"/>



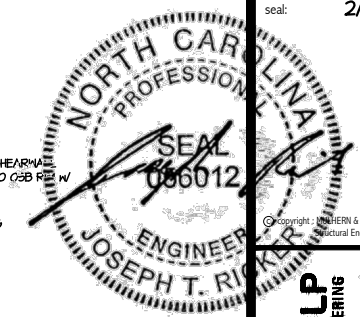
11 SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW
SCALE: 3/4\"/>



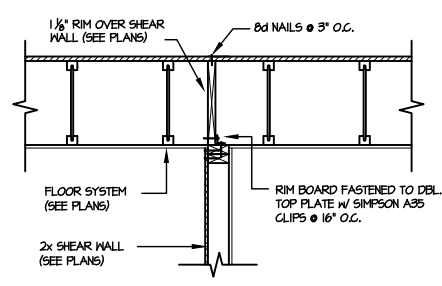
12 INTERIOR DRAG TRUSS DETAIL
SCALE: 3/4\"/>



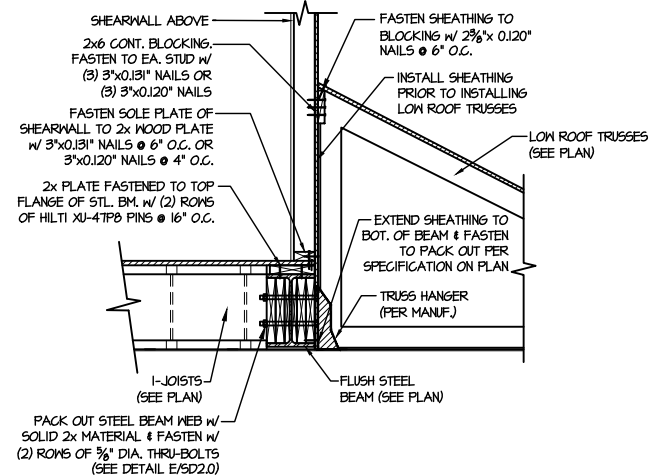
13 SHEAR TRANSFER DETAIL @ CANT'D EXTERIOR WALL
SCALE: 3/4\"/>



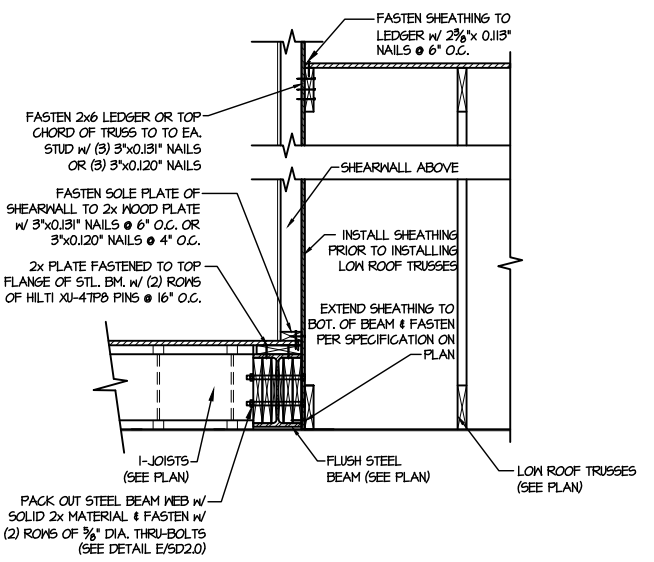
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N.C. LIC. #C-3825



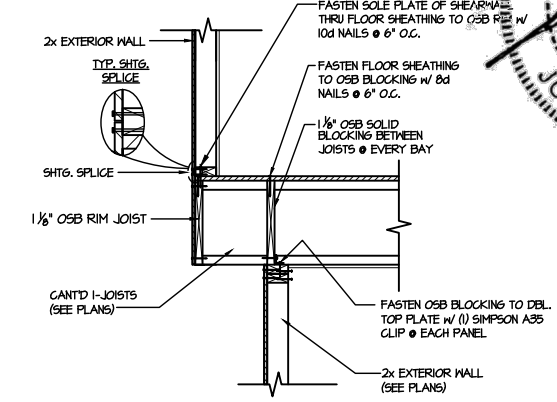
1 SHEAR TRANSFER DETAIL @ INTERIOR SHEAR WALL
SCALE: 3/4"=1'-0"
PARALLEL TO FRAMING
ONLY READ WHERE NOTED ON PLAN



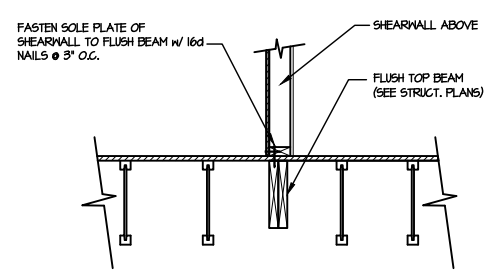
2 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE
SCALE: 3/4"=1'-0"



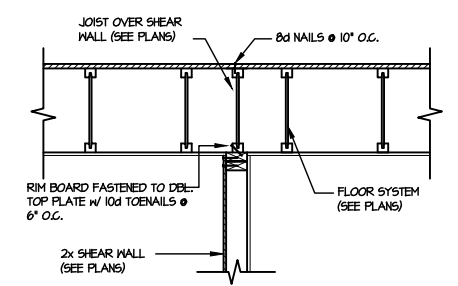
3 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE
SCALE: 3/4"=1'-0"



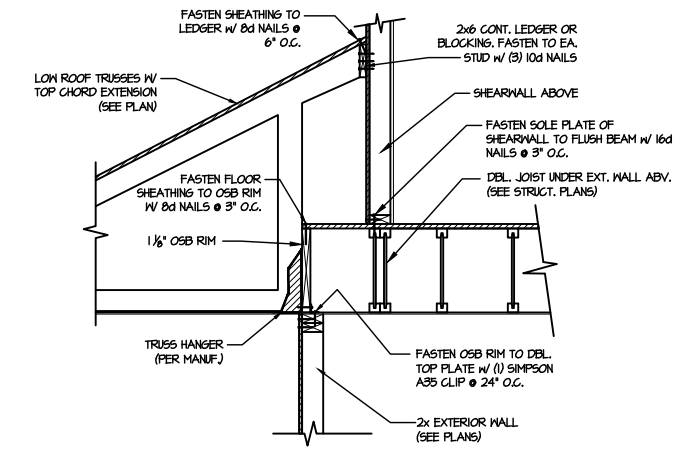
4 SHEAR TRANSFER DETAIL BETWEEN FLOORS @ CANT'D EXT. WALL
SCALE: 3/4"=1'-0"
PERPENDICULAR FRAMING



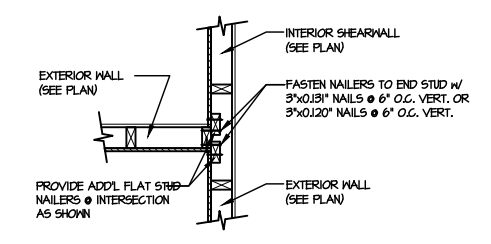
5 SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL ABOVE
SCALE: 3/4"=1'-0"
PARALLEL FRAMING



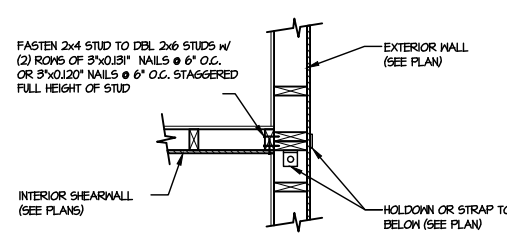
6 SHEAR TRANSFER DETAIL @ INTERIOR SHEAR WALL
SCALE: 3/4"=1'-0"
PARALLEL TO FRAMING
ONLY READ WHERE NOTED ON PLAN



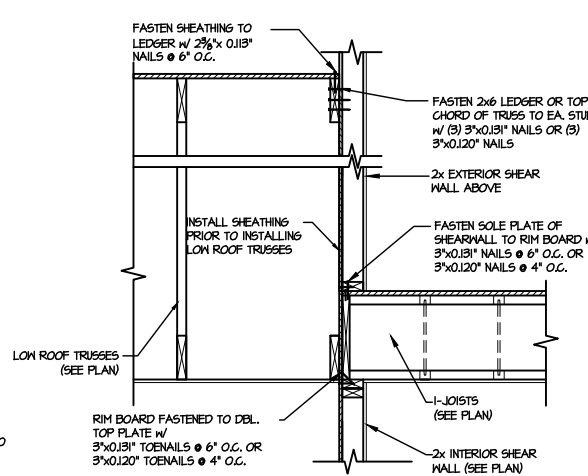
7 SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL ABOVE
SCALE: 3/4"=1'-0"
PARALLEL FRAMING



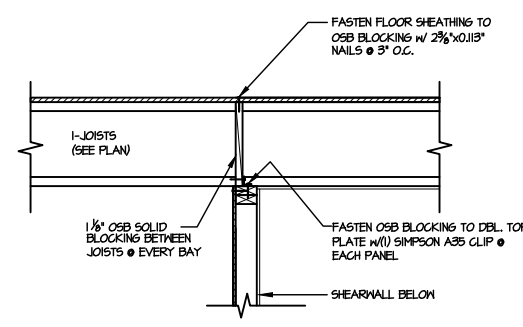
8 SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARWALL
SCALE: 3/4"=1'-0"
SHTS. ON SAME PAGE



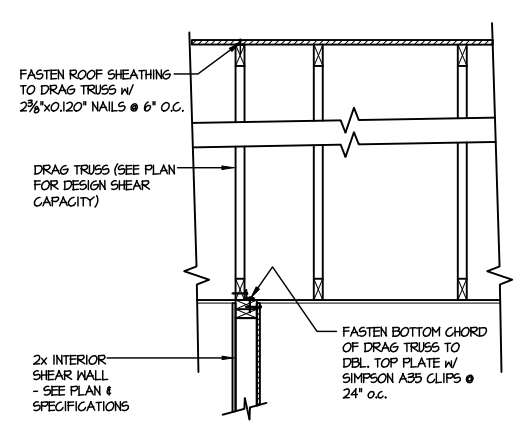
9 SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARWALL
SCALE: N.T.S.



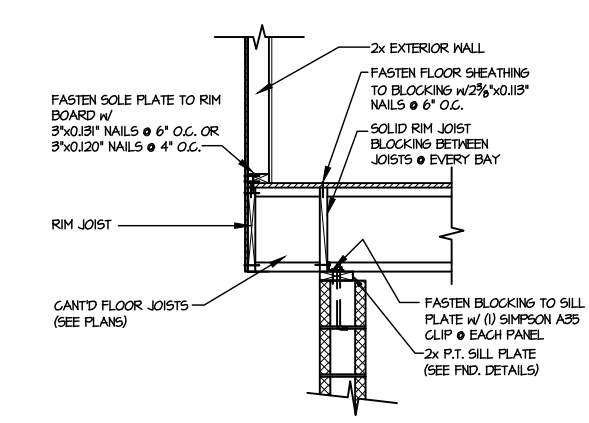
10 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL
SCALE: 3/4"=1'-0"



11 SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW
SCALE: 3/4"=1'-0"
PERPENDICULAR FRAMING



12 INTERIOR DRAG TRUSS DETAIL
SCALE: 3/4"=1'-0"

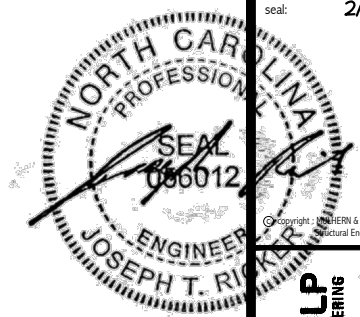


13 SHEAR TRANSFER DETAIL @ CANT'D EXTERIOR WALL
SCALE: 3/4"=1'-0"

FILE: RLH - Neil's Creek - Lot 192 - Structural DATE: 2/22/2024 8:56 AM

DRB
HOMES

FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 192 - MERLOT 2
RALEIGH, NC



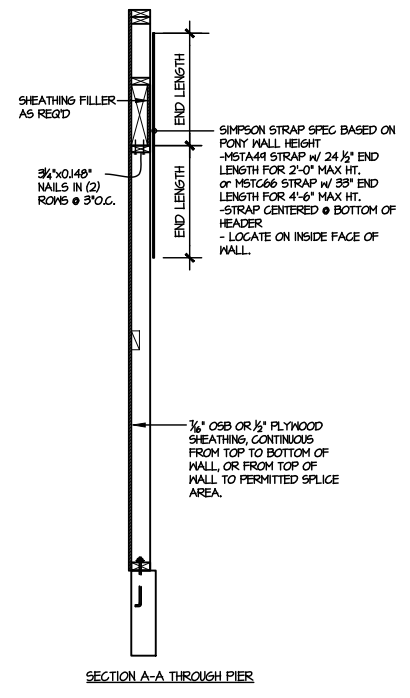
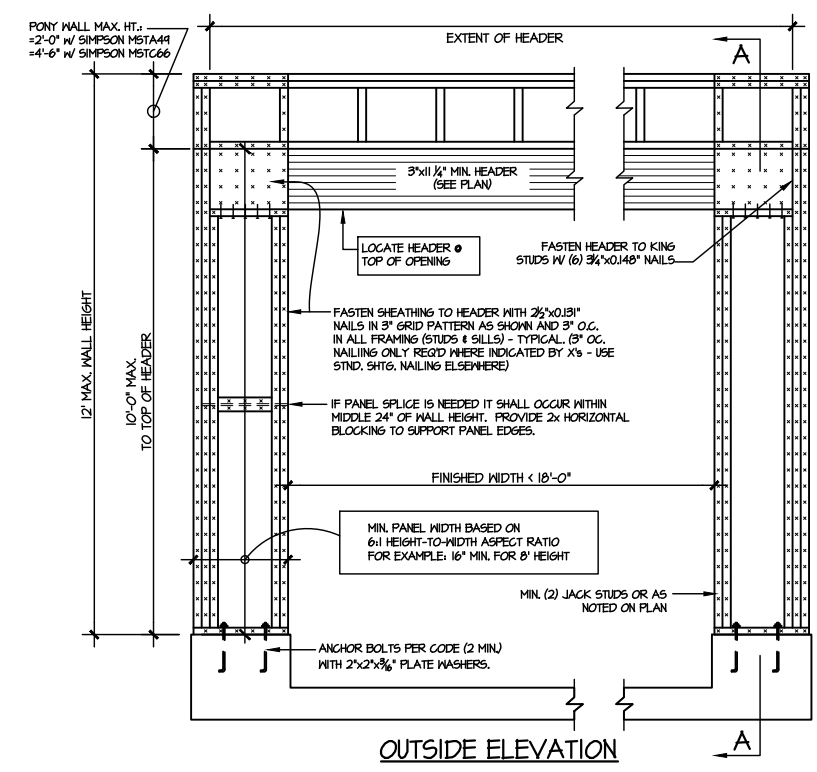
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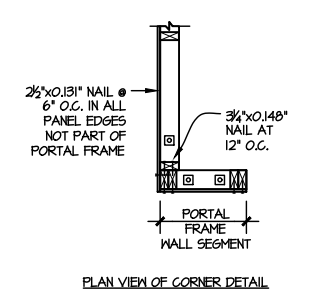
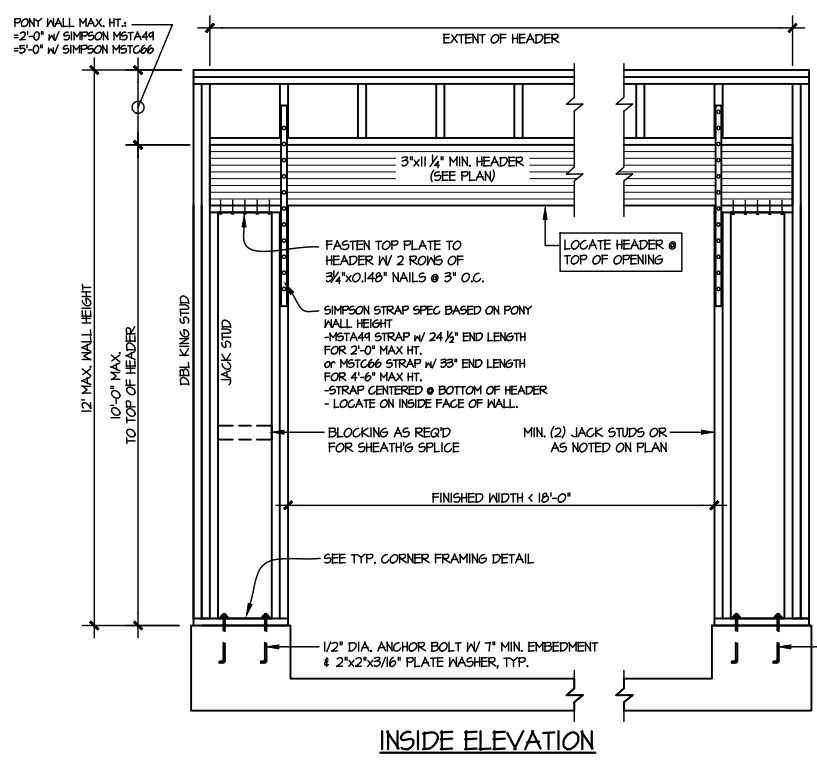
M&K project number:
126-22076
project mgr: JTR
drawn by: KFG
issue date: 02-13-24
REVISIONS:
date: initial:



FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 192 - MERLOT 2
RALEIGH, NC

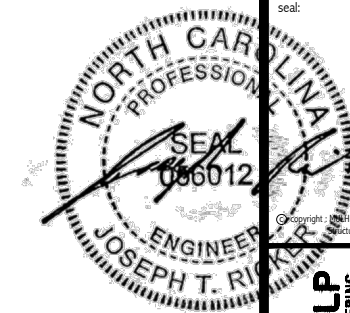


NOTE: ALL SHEATHABLE AREAS OF EXTERIOR WALL SHALL BE FULLY SHEATHED WITH 1/2" PLYWOOD OR 1/2" OSB



ALTERNATIVES TO 1/2" DIA. ANCHOR BOLT:
1) 1/2" DIA. x 6" LONG SIMPSON TITEN HD
2) 1/2" DIA. THREADED 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.



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M&K project number:
126-22076

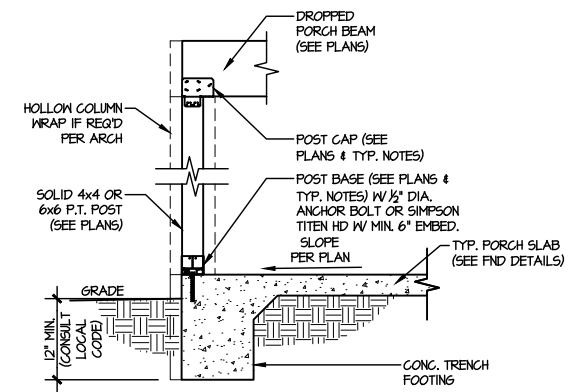
project mgr: JTR
drawn by: KFG
issue date: 02-13-24

REVISIONS:
date: initial:



FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 192 - MERLOT 2
RALEIGH, NC

sheet:
SD3.0



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

General Notes: ** CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION. ** ALL BEARING POINTS MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS.

Revisions	
00/00/00	Name
00/00/00	Name
00/00/00	Name
00/00/00	Name
00/00/00	Name

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'Onofrio Drive, Madison, WI 53179.

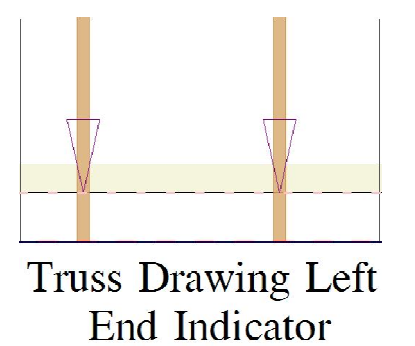
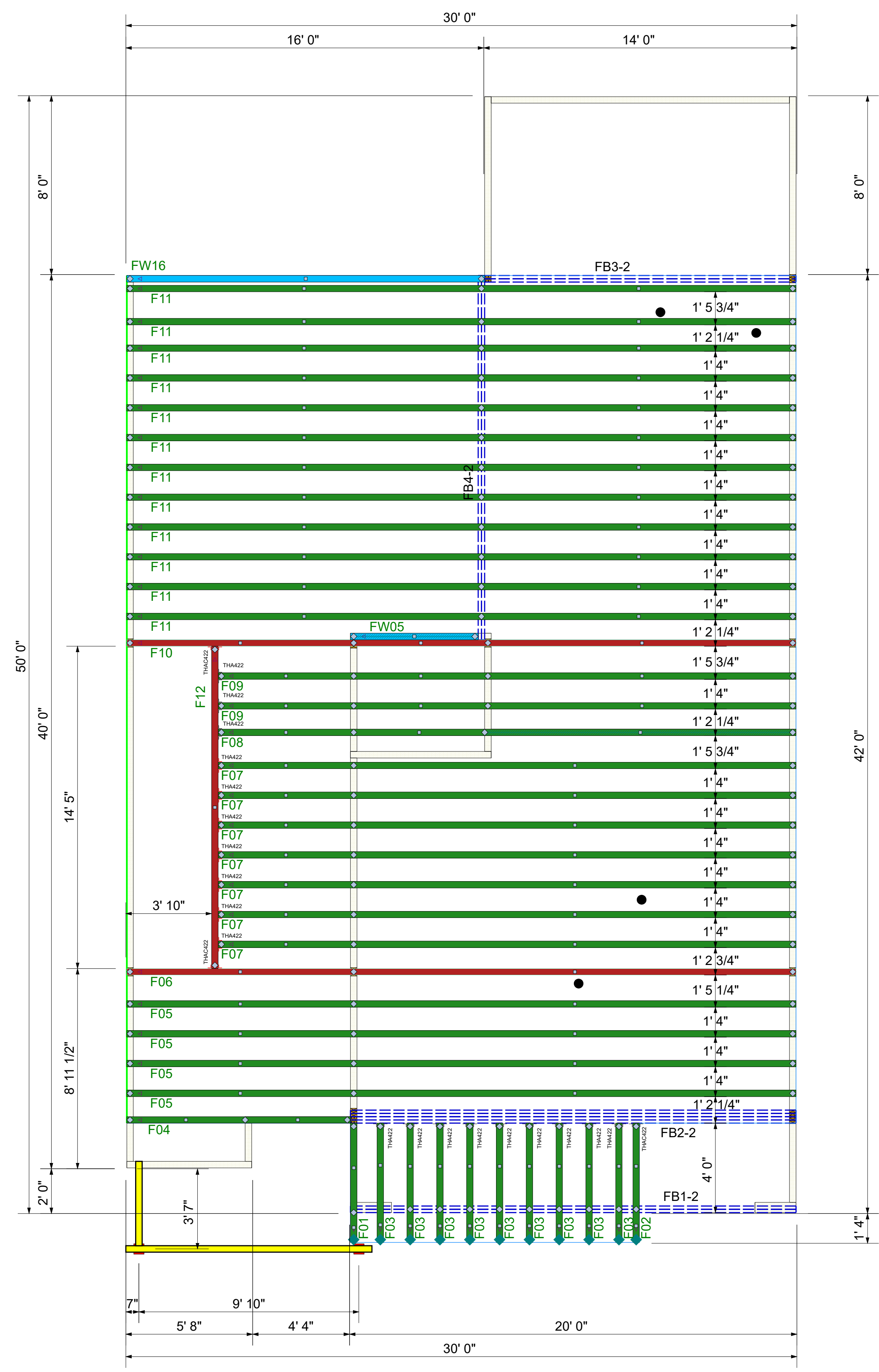


DRB HOMES
192 FARM AT NEILLS CREEK
MERLOT 2
COMPONENT PLAN
PLACEMENT PLAN

Scale:	NTS
Date:	2/15/2024
Designer:	ND
Project Number:	24020062
Sheet Number:	1/1

PlotID	Length	Product	Products		
			Plies	Net Qty	Fab Type
FB1-2	20' 0"	2.0 RigidLam DF LVL 1-3/4 x 11-7/8	2	2	FF
FB2-2	20' 0"	2.0 RigidLam DF LVL 1-3/4 x 14	4	4	FF
FB4-2	18' 0"	2.0 RigidLam DF LVL 1-3/4 x 14	2	2	FF
FB3-2	14' 0"	2.0 RigidLam DF LVL 1-3/4 x 14	2	2	FF

Truss Connector Total List		
Manuf	Product	Qty
Simpson	THA422	20
Simpson	THAC422	3



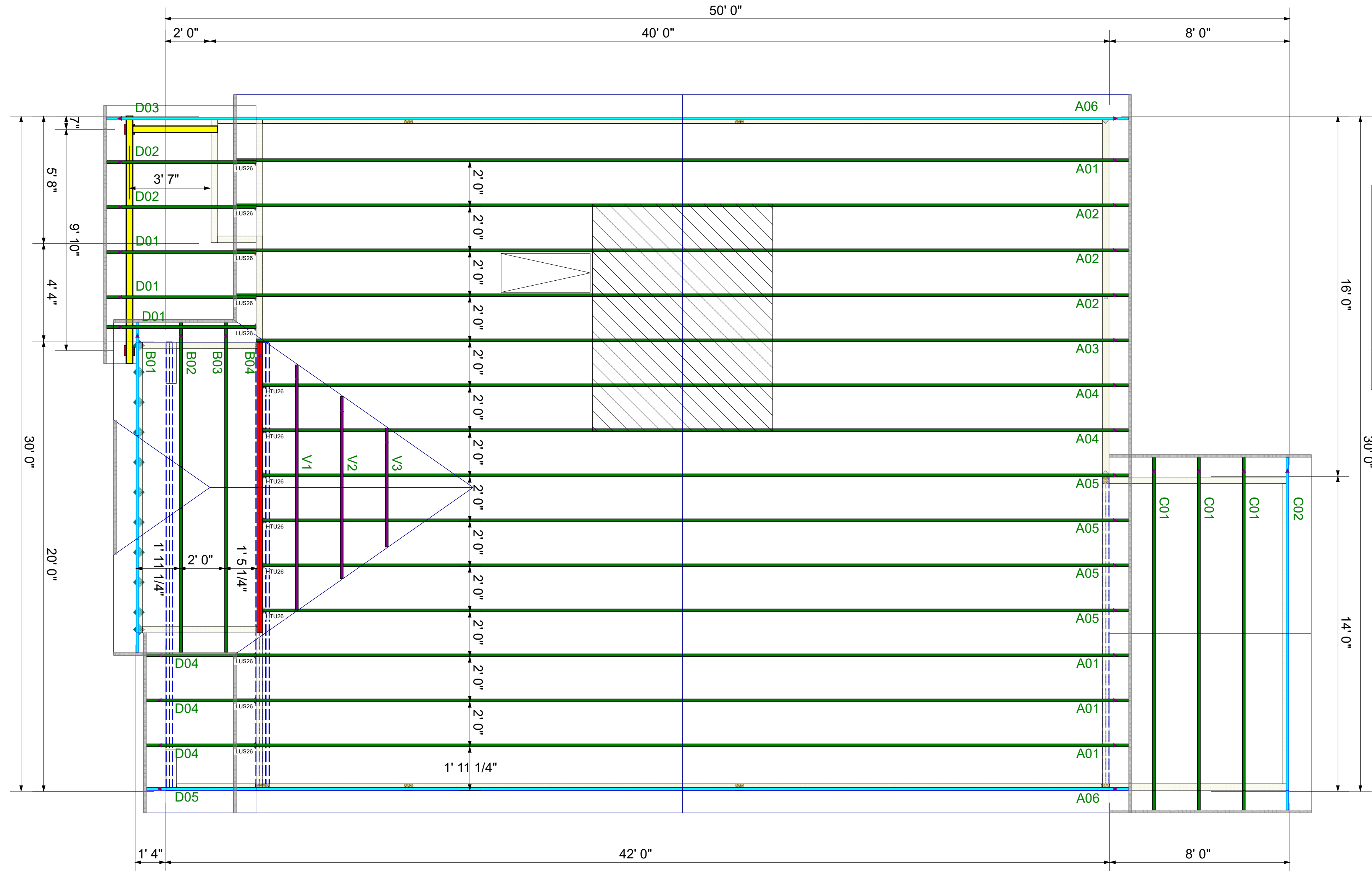
** FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS. ** DAMAGED COMPONENTS SHOULD NOT BE INSTALLED UNLESS TOLD TO BY THE COMPONENT PLANT. ** GIRDERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS. ** DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH. ** TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE.

** TRIANGULAR SYMBOL NEAR END OF TRUSS INDICATES LEFT END OF TRUSS AS SHOWN ON INDIVIDUAL TRUSS DRAWINGS. ** PLUMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN. BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES. ** REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS.

** CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION.

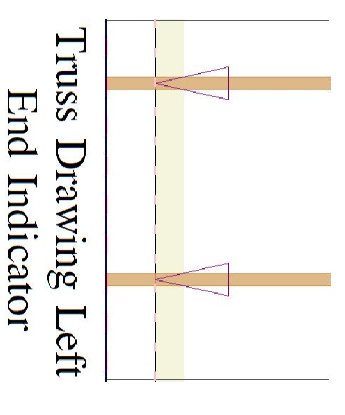
** ALL BEARING POINTS MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS.

Truss Connector Total List			
Manuf	Product	Qty	
Simpson	HTU26	6	
Simpson	LUS26	8	



** FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS.

** DAMAGED COMPONENTS SHOULD NOT BE INSTALLED UNLESS TOLD TO BY THE COMPONENT PLANT.



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Scale:	NTS
Date:	2/15/2024
Designer:	ND
Project Number:	24020062
Sheet Number:	1/1

DRB HOMES
 192 FARM AT NEILLS CREEK
 MERLOT 2
**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

Revisions	
Name	
00/00/00	Name
00/00/00	Name
00/00/00	Name
00/00/00	Name