

JORDAN-RALE

RALEIGH- LOT 00.00019 CAMPBELL RIDGE SF
(MODEL# 2993)

ELEVATION 5- GL

DRB
HOMES

187 Alden Way

INDEX

LOT SPECIFIC

AREA CALCULATIONS			
ELEVATION 5	HEATED	COVERED / UNHEATED	UNCOVERED
FIRST FLOOR	1441 SF		
FRONT PORCH - ELEVATION 5		64 SF	
GARAGE		434 SF	
SECOND FLOOR	1568		
OPTIONS			
3RD CAR GARAGE		264 SF	
REAR PORCH		462 SF	
TOTAL	3009 SF	1224 SF	



MASTER PLAN INFORMATION			UPDATED DATE
REVISION	DATE		
2-RAL	04-11-24		07-01-24

DRAWN BY:	ITS
DATE:	04/21/2025
PLAN NO.	2993

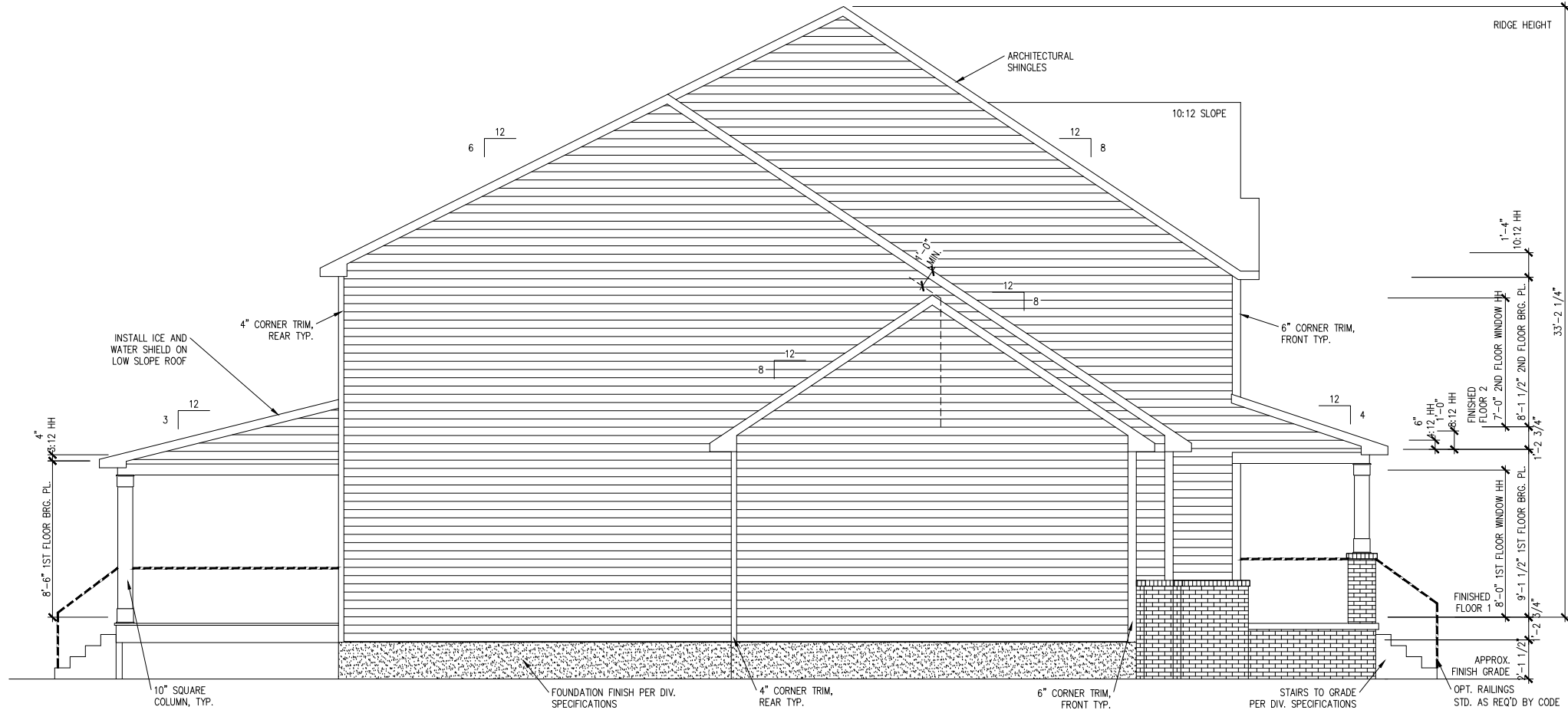
DRB HOMES

HOUSE NAME:	JORDAN
DRAWING TITLE	FRONT & REAR ELEVATIONS

SHEET No.
A1.1



RIGHT ELEVATION 5
SCALE: 1/8" = 1'-0"



LEFT ELEVATION 5
SCALE: 1/8" = 1'-0"

FILE: Lot_00.0019 updated 5-5-25.dwg DATE: 4/21/2025 9:36 AM

MASTER PLAN INFORMATION		
REVISION	DATE	UPDATED DATE
2-RALE	04-11-24	07-01-24

DRAWN BY: ITS	
DATE: 04/21/2025	
PLAN NO. 2993	

DRB
HOMES

HOUSE NAME:
JORDAN

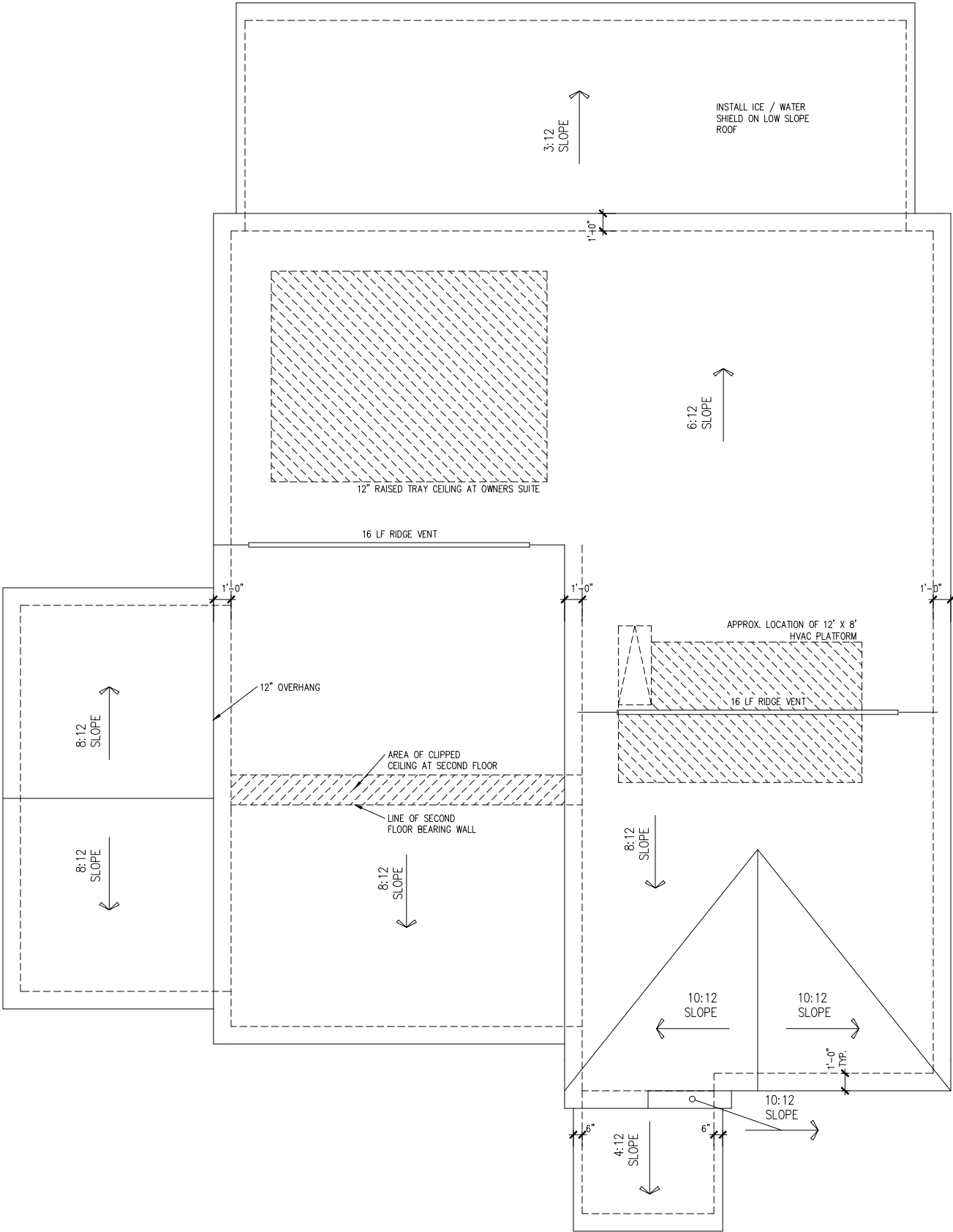
DRAWING TITLE

RIGHT & LEFT ELEVATIONS

SHEET No.
A1.2

UPPER ROOF VENTILATION CALCULATIONS:

ROOF AREA = 1982 SQ. FT.
OVERALL REQUIRED VENTILATION:
1 TO 150 = 13.21 SQ. FT.
1 TO 300 = 6.61 SQ. FT.
50-80% IN TOP THIRD = 3.30 - 5.28 SQ. FT. (1 TO 300)
NET FREE AREA OF VENTED SOFFIT = 5.7 SQ. IN. / LINEAR FT.
NET FREE AREA OF RIDGE VENT = 18 SQ. IN. / LINEAR FT.
LOWER VENTING: (BOTTOM 2/3 ROOF)
80 LINEAR FEET OF SOFFIT X 5.7 SQ. IN. = 3.17 SQ. FT.
UPPER VENTING: (TOP 1/3 ROOF)
32 LINEAR FEET OF RIDGE X 18 SQ. IN. = 4.0 SQ. FT.
4.0 SQ. FT. BETWEEN 50% - 80%
(1 TO 300 ALLOWED)
TOTAL ROOF VENTILATION: 7.17 SQ. FT. > 6.61 SQ. FT. (REQD)



ROOF PLAN ELEV. 5

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

MASTER PLAN INFORMATION			
REVISION	DATE	UPDATED DATE	
2-RALE	04-11-24	07-01-24	

DRAWN BY:	ITS
DATE:	04/21/2025
PLAN NO.	2993

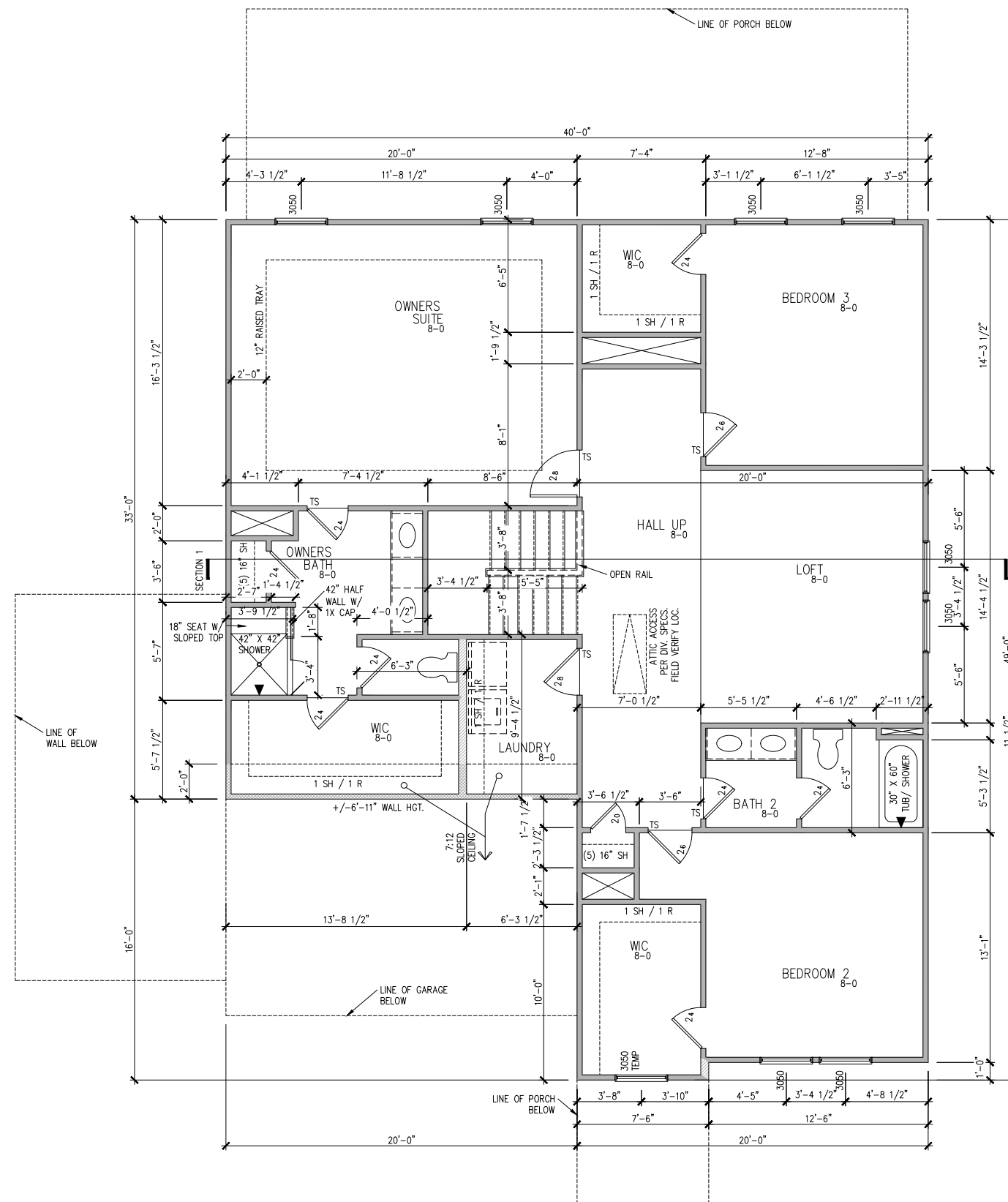
DRB HOMES

HOUSE NAME:
JORDAN
DRAWING TITLE
ROOF PLAN

SHEET No.
A1.3

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

SHEET No.
A3.1



ELEVATION 5
SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

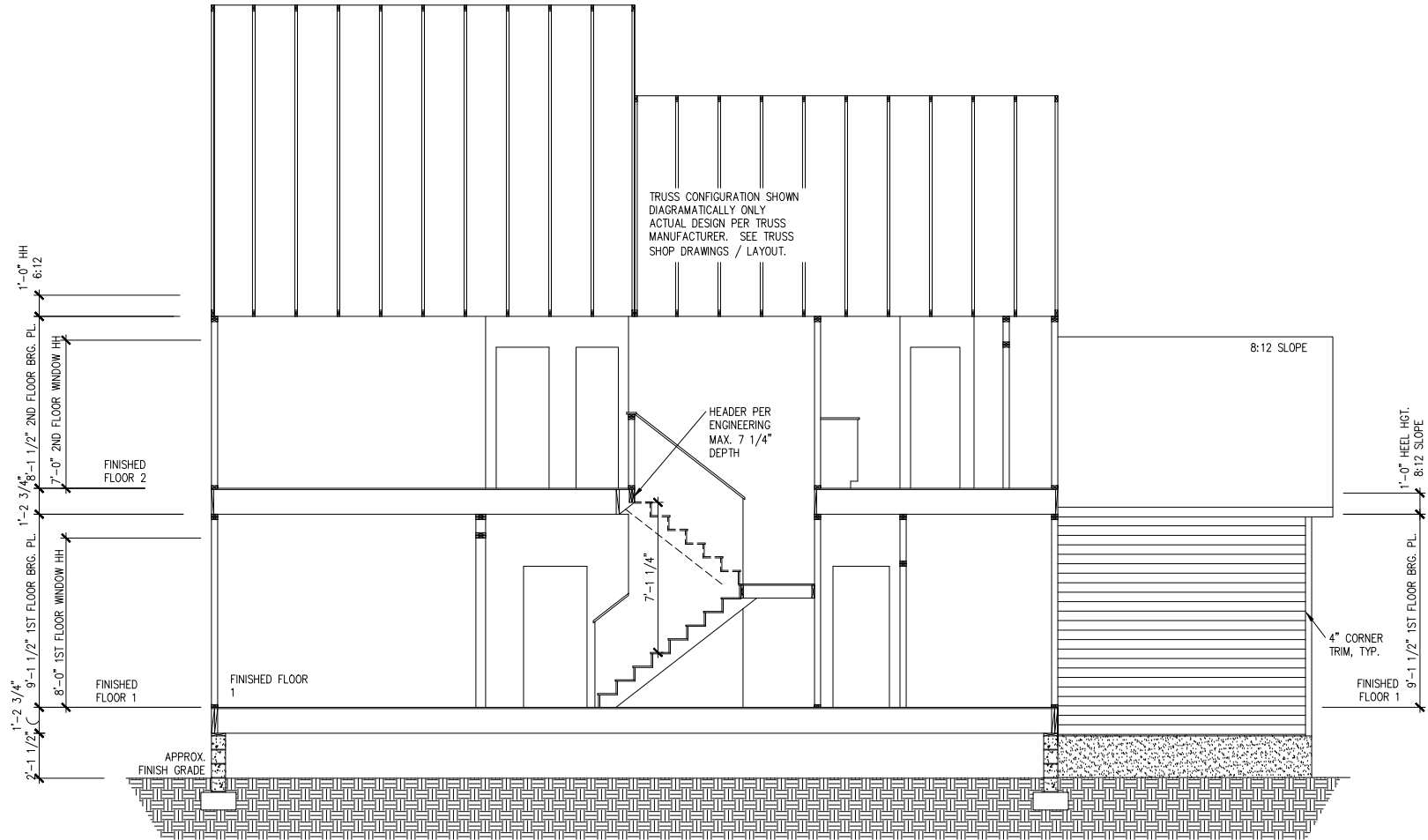
MASTER PLAN INFORMATION		
REVISION	DATE	UPDATED DATE
2-RALE	04-11-24	07-01-24

DRAWN BY: ITS
DATE: 04/21/2025
PLAN NO. 2993



HOUSE NAME: JORDAN
DRAWING TITLE SECOND FLOOR PLAN

SHEET No.
A3.2



SECTION 1

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

MASTER PLAN INFORMATION		
REVISION	DATE	UPDATED DATE
2-RAL	04-11-24	07-01-24

DRAWN BY:	ITS
DATE:	04/21/2025
PLAN NO.	2993

DRB
HOMES

HOUSE NAME:
JORDAN

DRAWING TITLE

BUILDING SECTION

SHEET No.

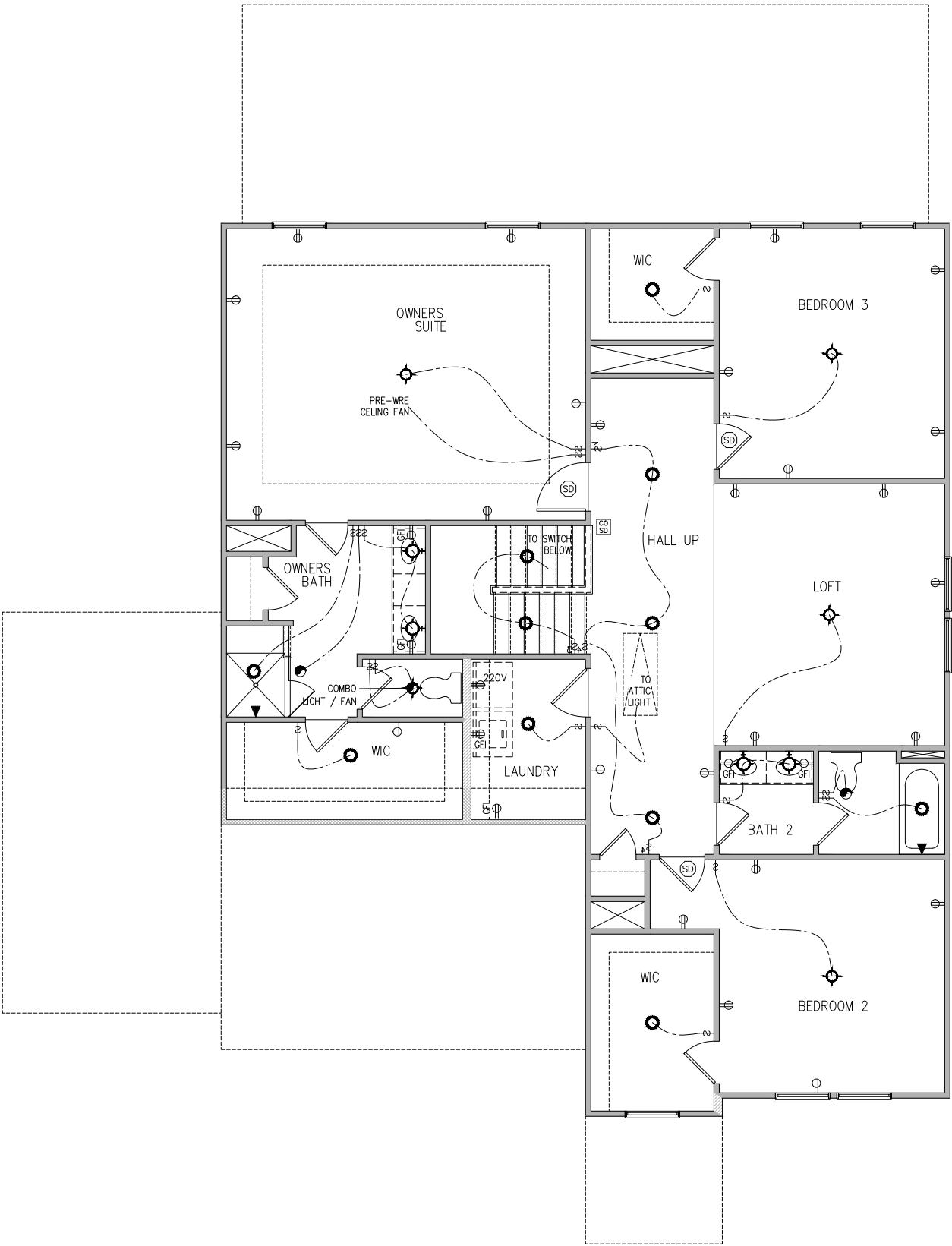
A4.1

FILE: Lot_00.0019_updated 5-5-25.dwg DATE: 4/21/2025 9:36 AM

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
- ⊕ EXHAUST FAN MOTOR
- TV TV JACK
- TV TV JACK
- CO / SD CO / SMOKE DETECTOR
- DOOR CHIME
- ⊕ LIGHT FIXTURE – WALL MOUNTED
- ⊕ LIGHT FIXTURE – CEILING MOUNTED
- ⊕ LIGHT FIXTURE – SURFACE MOUNTED LED
- ⊕ PULLCHAIN LAMPHOLDER
- ⊕ KEYLESS LAMPHOLDER
- ⊕ MOTION SENSOR FLOOD LIGHT

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. 5

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

DRAWN BY:		ITS
DATE:		04/21/2025
PLAN NO.		2993

DRB
HOMES

HOUSE NAME:	JORDAN
DRAWING TITLE	SECOND FLOOR ELECTRICAL

SHEET No.	E1.2
-----------	------

MASTER PLAN INFORMATION		UPDATED DATE	07-01-24
REVISION	DATE	04-11-24	
2-RALE			

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

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	(4) NAILS IN LAPPED AREA	(11) NAILS IN LAPPED AREA
TOP PLATE LAP @ CORNERS & INTERSECTING WALLS	(2) NAILS	(2) NAILS
* 2½"x0.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS. (ONLY ACCEPTABLE WHERE * ARE SHOWN)		

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.)

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. 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 ELEMENTS 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/FLUSH BEAMS DO NOT EXCEED THE FOLLOWING:

- ROOF TRUSSES:
1/4" DEAD LOAD
- FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS:
1/8" DEAD LOAD
- 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.
- 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)
(ADDL 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. 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. U.N.O.
- EXT. & INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. SFF OR STP '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 (SFF) OR SOUTHERN PINE #2 (STP) 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:
(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=1.55x10⁶ psi
 - 'LVL' - Fb=2600 psi; Fv=285 psi; E=2.0x10⁶ psi
 - 'PSL' - Fb=2400 psi; Fv=240 psi; E=2.0x10⁶ psi
- M&K SHALL BE FULLY IDENTIFIED 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 ½"x3½" SIMPSON SDS SCREWS (OR ¾" TRUSSELOK 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 ½" 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 ½"x6" SIMPSON SDS SCREWS (OR 6 ¾" TRUSSELOK 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 TRUSSELOK 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, U.N.O..
- ALL MULTI-PLY STUDS TO BE FASTENED TOGETHER W/ 3"x0.131" NAILS @ 24" O.C. (MIN), EACH PLY.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM 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 (HILT! 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 BC62-2/4 CAP & ABM44Z BASE, U.N.O.

FLOOR FRAMING

- I-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 I-JOIST FLOORS, PROVIDE 1 1/8" MIN. OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR' 24" O.C. EXPOSURE 1 (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W/ GLUE AND - 2 ½" x 0.131" NAILS @ 6" o.c. @ PANEL EDGES @ 12" o.c. FIELD.
- 2 ¾" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES @ 8" O.C. FIELD.
- 2 ¾" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES @ 6" O.C. IN FIELD.
- #6 x 2" MIN. SCREWS @ 6" O.C. @ PANEL EDGES @ 12" O.C. FIELD.

ROOF FRAMING

- BAY WINDOWS & SHED ROOFS (UP TO 6' SPAN) CAN BE 2x4 OR 2x6 RAFTERS & CEILING JOISTS @ 16/24" O.C.
- FASTEN EACH ROOF TRUSS TO TOP PLATE W/ SIMPSON H25T CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) H25T CLIPS AT 2-PLY GIRDER TRUSSES, (3) H25T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS.
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.
- ERECT AND INSTALL ROOF TRUSSES PER WTCA & TP1'S BC61 I-08 'GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES.'
- SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (MAX 7' SPAN) W/ 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 ½" x 0.131" NAILS @ 6" o.c. @ PANEL EDGES @ 12" O.C. FIELD.
- W/ 2 ¾" x 0.120" NAILS @ 4" o.c. @ PANEL EDGES @ 8" O.C. FIELD.
- W/ 2 ¾" x 0.113" NAILS @ 3" o.c. @ PANEL EDGES @ 6" O.C. FIELD.

HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION
HD-1	SIMPSON HIT4 HOLD-DOWN @ (¾" DIA. ANCHOR)
HD-2	SIMPSON M5TC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.) OR M5TC66B5 ALTERNATE
HD-3	SIMPSON 5THD14/5THD14RJ

* 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 1/2" 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.

VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE
3'-0"	20 FT. MAX	L3"x3"x½"
	3 FT. MAX	L3"x3"x½"
6'-0"	12 FT. MAX	L4"x3"x½"
	20 FT. MAX	L5"x3½"x¾"
8'-0"	3 FT. MAX	L4"x4"x½" *
	12 FT. MAX	L5"x3½"x¾"
16'-0"	16 FT. MAX	L6"x3½"x¾"
	12 FT. MAX	L6"x3½"x¾"
16'-0"	2 FT. MAX	L7"x4"x½" **
	3 FT. MAX	L8"x4"x½" **

ALL LINTELS:
- SHALL SUPPORT 2 ¾" - 3 ½" VENEER W/ 40 psf MAXIMUM WEIGHT.
< 16' SHALL HAVE 4" MIN. BEARING
> 16' SHALL HAVE 8" MIN. BEARING
< 16' SHALL NOT BE FASTENED BACK TO HEADER
> 16' SHALL BE FASTENED BACK TO WOOD HEADER IN WALL @48" o.c. W/ ½" DIA. x 3 ½" LONG LAG SCREWS IN 2" LONG VERTICALLY SLOTTED HOLES
- MAX. VENEER HT. APPLIES TO ANY PORTION OF BRICK OVER THE OPENING.
- ALL LINTELS SHALL BE LONG LEG VERTICAL.
- WHEN SUPPORTING VENEER < 3" WIDE THE EXTERIOR TOE OF THE HORIZONTAL LEG MAY BE CUT IN THE FIELD TO BE 3 ½" WIDE OVER THE BEARING LENGTH ONLY. THIS IS TO ALLOW FOR MORTAR JOINT FINISHING.
- SEE STRUCTURAL PLANS FOR ANY LINTEL CONDITION NOT ENCOMPASSED BY THE ABOVE PARAMETERS. FOR ANY LINTEL FASTENED BACK TO BEAM, FASTENERS SHALL MAINTAIN A 2½" (MINIMUM) CLEAR DISTANCE FROM BOTTOM OF BEAM.
* FOR QUEEN VENEER USE L4x3x½"
** FOR ¾" VENEER ONLY. SEE PLAN FOR VENEER SUPPORT IF VENEER < ¾" THICK.

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:
120 MPH WIND IN 2018 NCSEB: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 HAS BEEN COMPLETED PER 2015 IBC (SECTION 1604) & ASCE 7-10, AS PERMITTED BY R301.1.3 OF THE 2018 NCSEB: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 HEREIN, 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 NCSEB:RC SECTION R802.11.1.1. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5 & R802.11.

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD:
FASTEN SHEATHING W/ 2 ¾"x0.131" 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 ½" 16 GA STAPLES (¾" CROWN) @ 3" O.C. AT EDGES @ 6" O.C. IN FIELD.

BLOCKED PANEL EDGES

- AT DESIGNATED AREAS - FASTEN SHEATHING W/ 2 ¾" x 0.113" NAILS @ 6" O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR 1 ¾" 16 GA STAPLES (¾" 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 FASTENINGS.

3" O.C. EDGE NAILING

- AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING W/ 8d NAILS @ 3" O.C. NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED AND INSTALLED FULL HEIGHT OF SHEAR WALL OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING.

NOTES

- SEE CONNECTION SPECIFICATIONS CHART FOR 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)

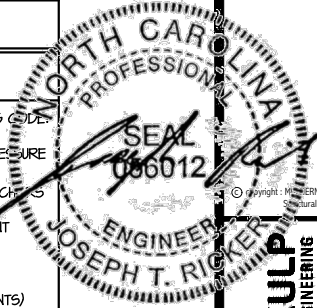
INDICATES EXTENT OF INT. OSB SHEARWALL OR 3" O.C. OSB SHEARWALL
INDICATES HOLDOWN BELOW

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 - 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 BASEMENT WALLS SHALL BE 2x6 @ 16" O.C. SFF OR STP, 'STUD' GRADE OR BETTER.
- CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.:
F_c = 4,000 psi: FOUNDATION WALLS
2,500 psi: FOOTINGS & INTERIOR SLABS ON GRADE
3,000 psi: GARAGE & EXTERIOR SLABS ON GRADE
f_y = 60,000 psi
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
 - 9' OR 10' HEIGHT (AS NOTED ON PLANS)
 - TALLER WALLS MUST BE ENGINEERED.
 - NOMINAL WIDTH (4 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 10" 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 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 C40 WITH A MIN. COMPRESSIVE STRENGTH OF 1900 psi (F_m=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 GRAML SPACE PIERS. ALL PIERS SHALL BE GROUTED SOLID.
- PROVIDE 2x6 P.T. PLATE ON INTERIOR GRAML 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



seat: 5/6/25

Copyright: MULHERN+KULP Structural Engineering, Inc.

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
300 Dunsmuir Ave., Building 4 - Jenkins, PA 15802
P: 715-548-2001 - mulhern@mulhern-kulp.com
NC LICENSE #C-3825



M&K project number:

126-24045

project mgr:

JTR

drawn by:

KJN

issue date: 04-30-25

REVISIONS:

DRB HOMES

STRUCTURAL NOTES

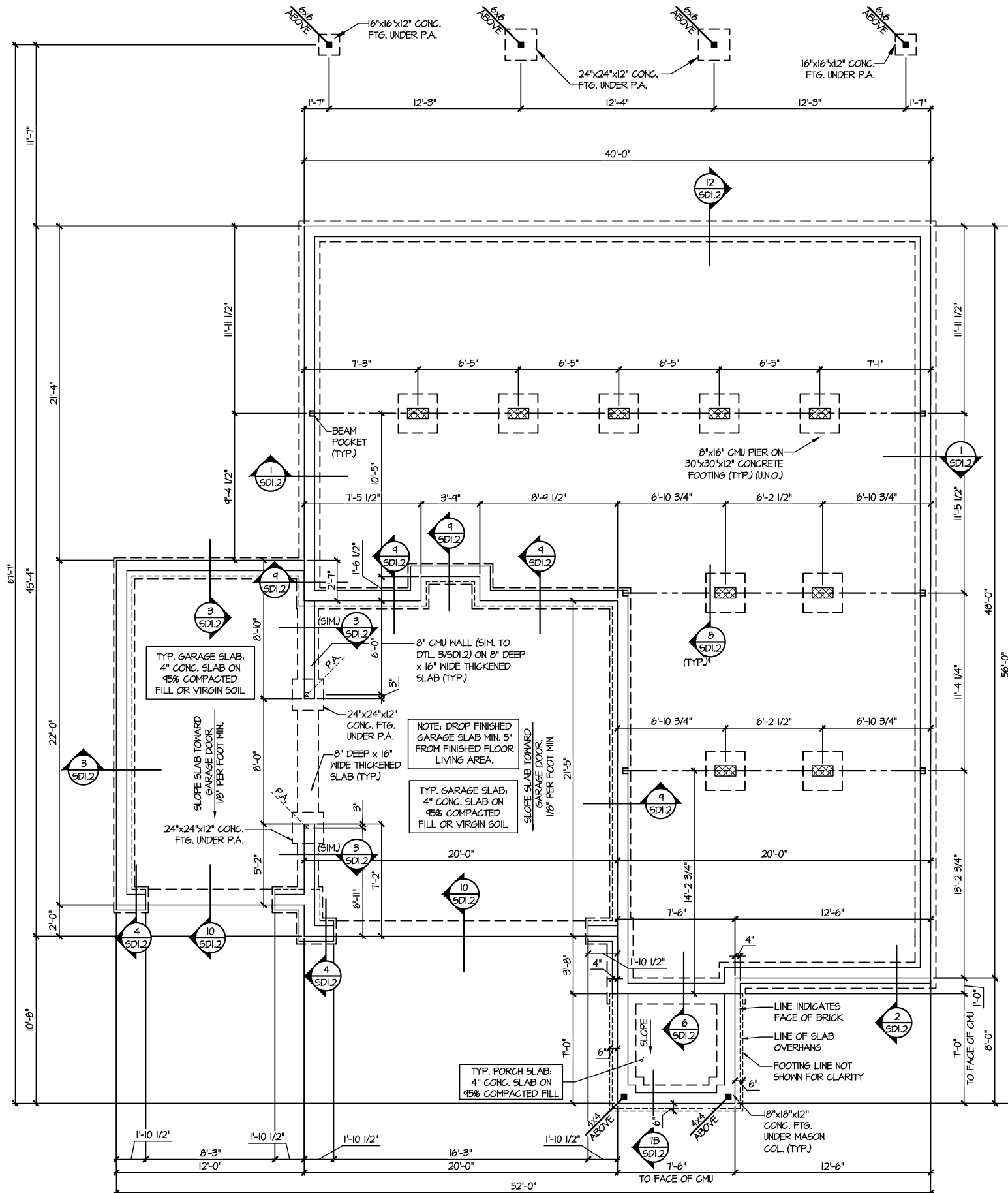
CAMPBELL RIDGE

LOT 19 - JORDAN 5

RALEIGH, NC

sheet:

SO.0



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

LEGEND

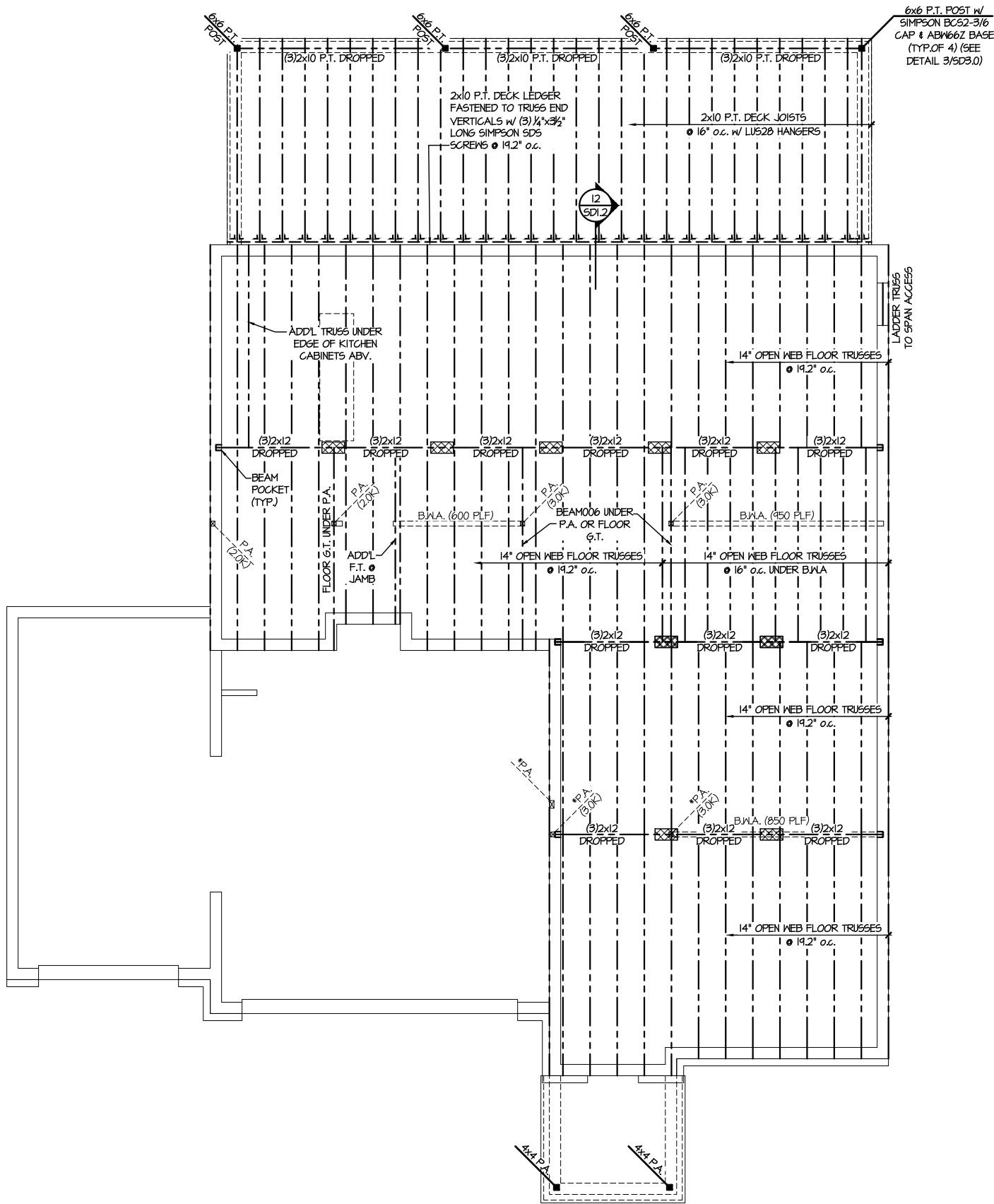
-  INTERIOR BEARING WALL
-  BEARING WALL ABOVE
-  BEAM / HEADER
-  INDICATES SHEAR WALL & EXTENT
-  EXTENT OF OVERFRAMING

11. METAL HANGER

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

 INDICATES HOLD-DOWN OR STRAP.
REFER TO SCHEDULE.

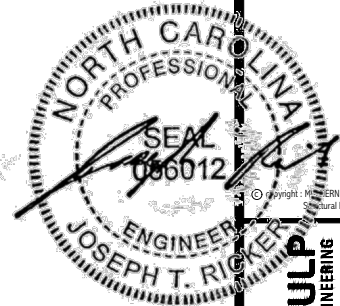
REFER TO 50.0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES



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

LEGEND	
▤	INTERIOR BEARING WALL
▤	BEARING WALL ABOVE
▬	BEAM / HEADER
▬	INDICATES SHEAR WALL & EXTENT
▤	EXTENT OF OVERFRAMING
11	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



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
300 Dunsmuir Ave. Building 4 - Jambler, PA 15002
P 215-548-2001 • mulhern+kulp.com
NC LICENSE #C-3825

M&K project number:
126-24045

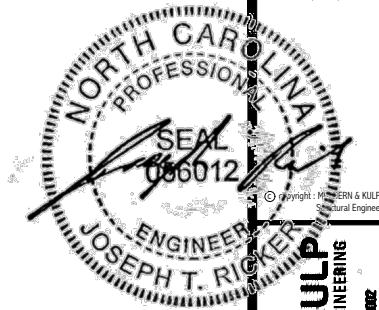
project mgr: JTR
drawn by: KJN
issue date: 04-30-25

REVISIONS:

DRB
HOMES

FLOOR FRAMING PLANS
CAMPBELL RIDGE
LOT 19 - JORDAN 5
RALEIGH, NC

sheet:
S2.0



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
300 Dunsmuir Ave. Building 4 - Asheville, NC 28802
P: 252-566-5001 - mulhern+kulp.com
NC LICENSE #C-3825



M&K project number:
126-24045

project mgr: JTR
drawn by: KJN
issue date: 04-30-25

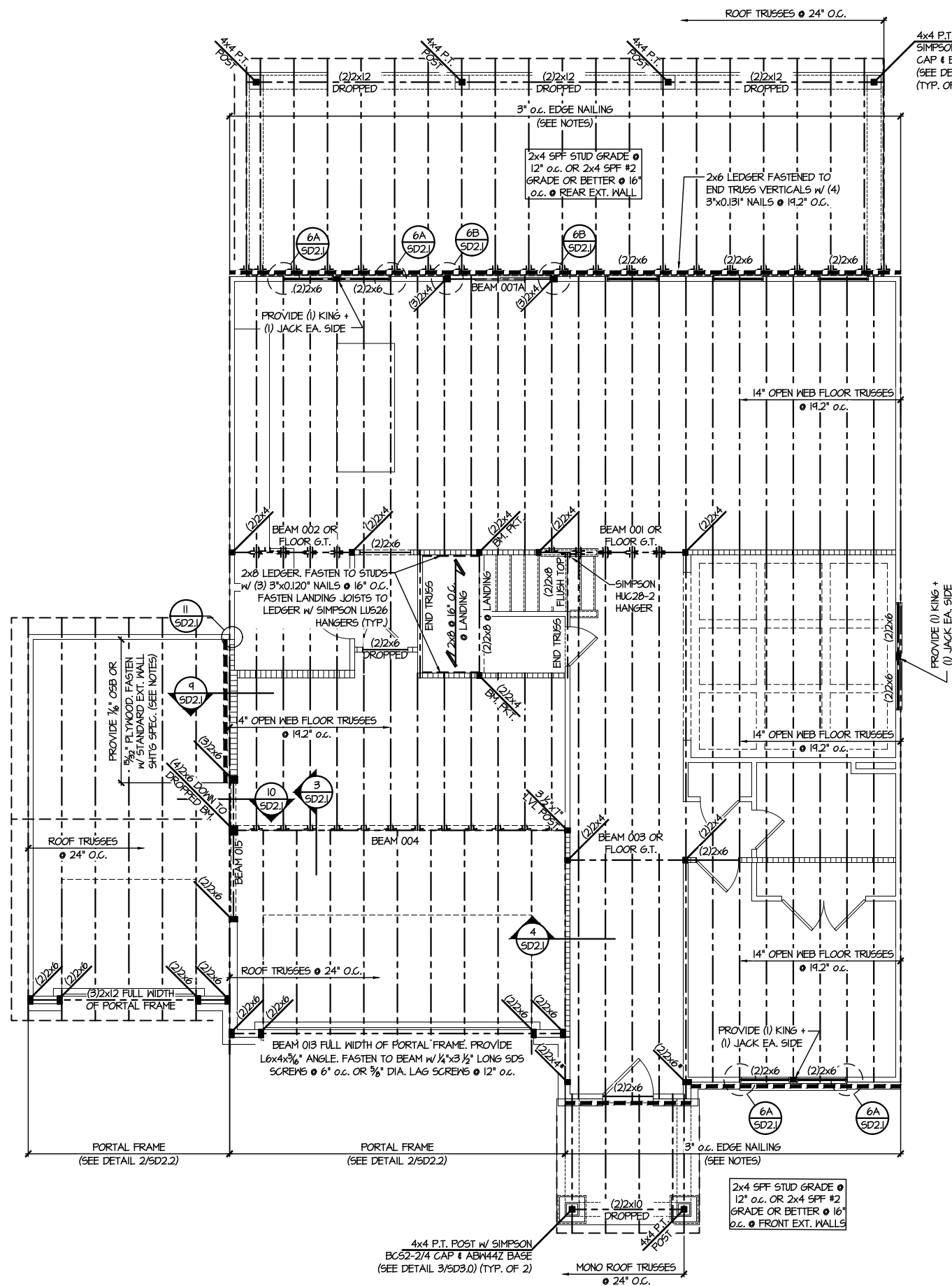
REVISIONS:

DRB
HOMES

FLOOR FRAMING PLANS
CAMPBELL RIDGE
LOT 19 - JORDAN 5
RALEIGH, NC

sheet:

S3.0



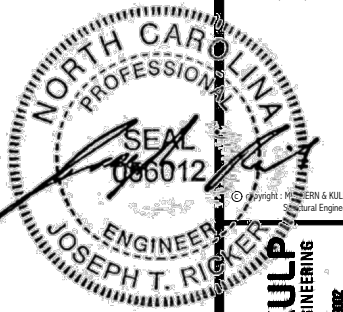
2ND FLOOR FRAMING PLAN
SCALE: 1/8"=1'-0"

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**

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

ENGINEERED BEAM MATERIAL SCHEDULE					
BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)3/4"x14" - F	3/2"x14" - F	(2)3/4"x14" - F	(2)2x12 + (1) 3/8"x11/4" STEEL FLITCH PLATES - FB	W12x14 - F
002	(2)3/4"x14" - F	3/2"x14" - F	(2)3/4"x14" - F	(2)2x12 + (1) 3/8"x11/4" STEEL FLITCH PLATES - FB	W12x14 - F
003	(2)3/4"x14" - F	3/2"x14" - F	(2)3/4"x14" - F	(2)2x12 + (1) 3/8"x11/4" STEEL FLITCH PLATES - FB	W12x14 - F
004	(4)3/4"x18" - FT	7"x18" - FT	N/A	(4)2x12 + (3) 3/8"x11/4" STEEL FLITCH PLATES - FB	W12x30 - F
005	(2)3/4"x11 1/2" - H	3/2"x11 1/2" - H	(2)3/4"x11 1/2" - H	(2)2x12 + (1) 3/8"x11/4" STEEL FLITCH PLATES - H	N/A
005A	(3)3/4"x16" - H	5/4"x16" - H	N/A	(3)2x12 + (2) 3/8"x11/4" STEEL FLITCH PLATES - H	N/A
006	(2)3/4"x14" - F	3/2"x14" - F	(2)3/4"x14" - F	(2)2x12 + (1) 3/8"x11/4" STEEL FLITCH PLATES - FB	W12x14 - F
007	(2)3/4"x14" - H	3 1/2"x14" - H	(2)3/4"x14" - H	(3)2x10 + (2) 3/8"x11/4" STEEL FLITCH PLATES - H	W8x10 - H
007A	(3)3/4"x14" - H	5/4"x14" - H	(3)3/4"x14" - H	(3)2x10 + (2) 3/8"x11/4" STEEL FLITCH PLATES - H	W8x10 - H
008	(2)3/4"x14" - D	3/2"x14" - D	(2)3/4"x14" - D	(2)2x12 + (1) 3/8"x11/4" STEEL FLITCH PLATES - D	W12x14 - D
009	(2)3/4"x14" - D	3/2"x14" - D	(2)3/4"x14" - D	(2)2x10 + (1) 3/8"x11/4" STEEL FLITCH PLATES - D	W8x10 - D
010	(2)3/4"x14" - D	3/2"x14" - D	(2)3/4"x14" - D	(2)2x12 + (1) 3/8"x11/4" STEEL FLITCH PLATES - D	W12x14 - D
011	(3)3/4"x18" - H	5/4"x18" - H	N/A	(3)2x12 + (2) 3/8"x11/4" STEEL FLITCH PLATES - H	N/A
012	(2)3/4"x14" - F	3/2"x14" - F	(2)3/4"x14" - F	(2)2x12 + (1) 3/8"x11/4" STEEL FLITCH PLATES - FB	W12x14 - F
013	(3)3/4"x16" - H	5/4"x16" - H	N/A	(3)2x12 + (2) 3/8"x11/4" STEEL FLITCH PLATES - H	N/A
013A	(3)3/4"x22" - H	N/A	N/A	N/A	N/A
014	(2)3/4"x14" - H	3/2"x14" - H	(2)3/4"x14" - H	(2)2x12 + (1) 3/8"x11/4" STEEL FLITCH PLATES - FB	N/A
015	(3)3/4"x14" - D	5/4"x14" - D	(3)3/4"x14" - D	N/A	N/A
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.					



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
300 Dunsmuir Ave. Building 4 - Raleigh, NC 27601
P: 215-548-2001 - mulhern+kulp.com
NC LICENSE #C-3825



M&K project number:
126-24045
project mgr: JTR
drawn by: KJN
issue date: 04-30-25

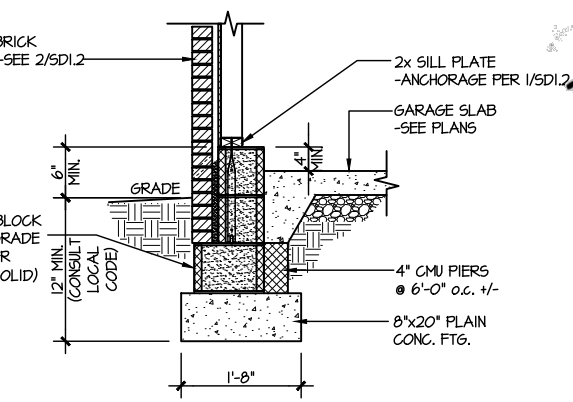
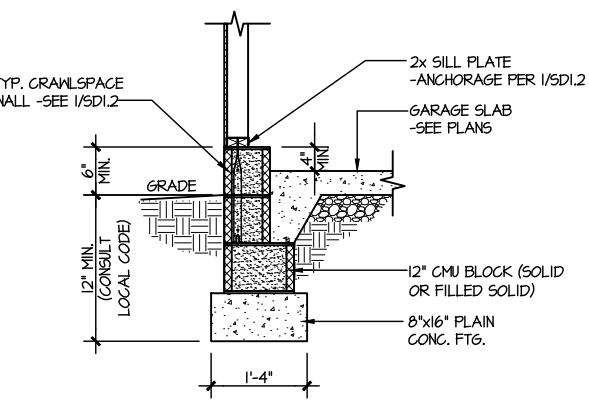
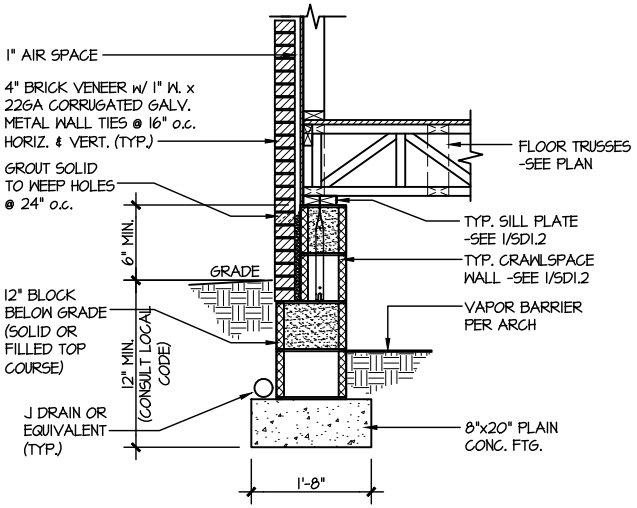
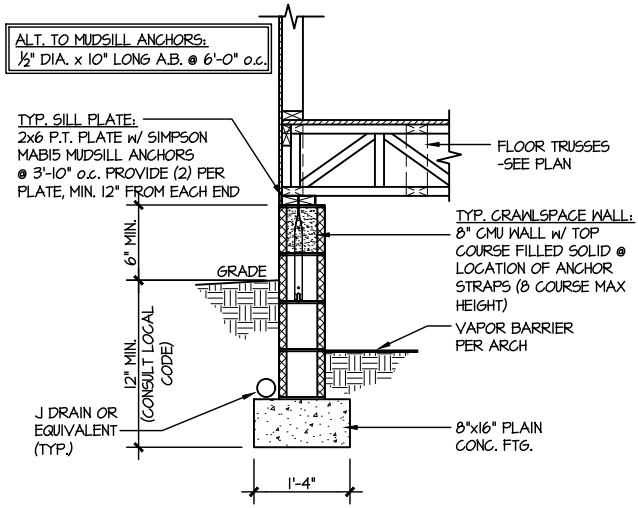
REVISIONS:

DRB HOMES

FOUNDATION DETAILS
CAMPBELL RIDGE
LOT 19 - JORDAN 5
RALEIGH, NC

sheet:

SD1.2

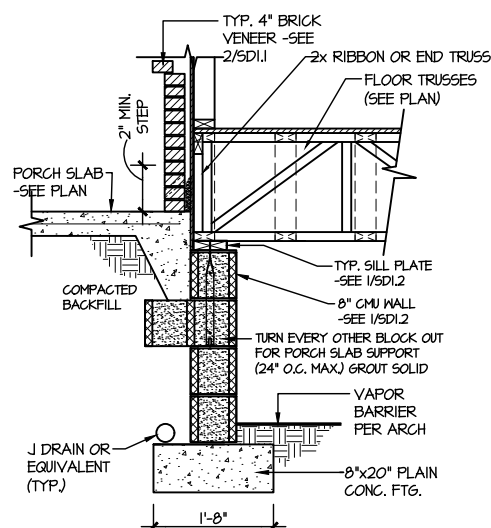
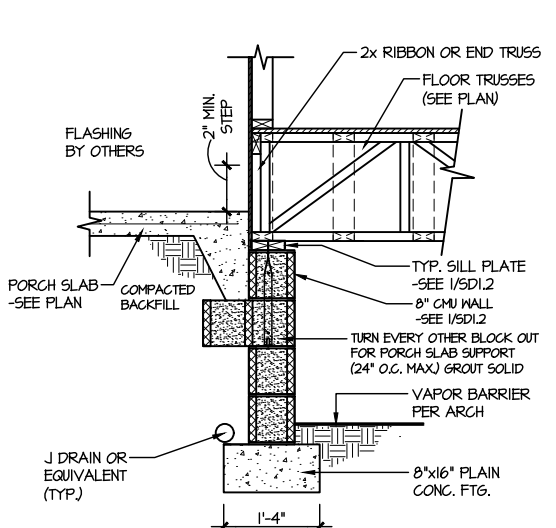


1 TYPICAL CRAWLSPACE FOUNDATION
SCALE: 3/8"=1'-0"

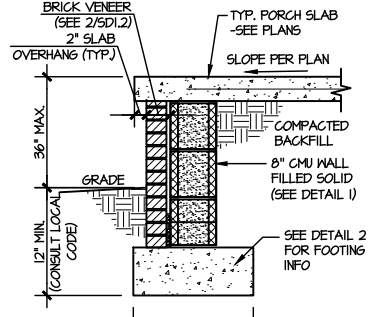
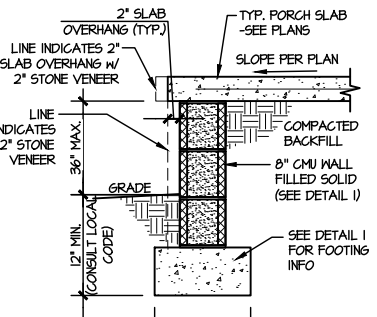
2 TYPICAL CRAWLSPACE FOUNDATION
SCALE: 3/8"=1'-0" w/ BRICK VENEER

3 TYPICAL GARAGE FOUNDATION
SCALE: 3/8"=1'-0"

4 TYPICAL GARAGE FOUNDATION
SCALE: 3/8"=1'-0" w/ BRICK VENEER

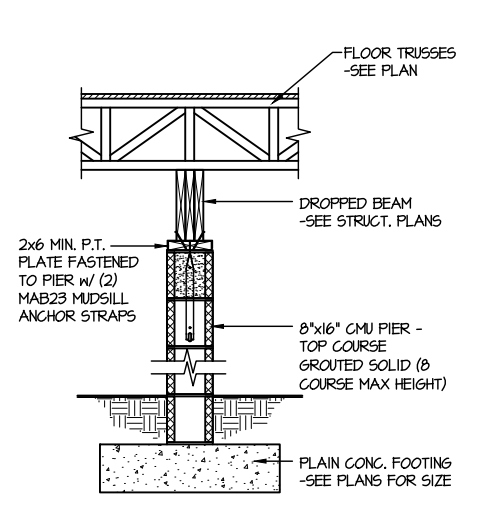


PLAIN CONC. FOOTINGS AS DIMENSIONED & SHOWN ARE MINIMUM SIZES REQUIRED & HAVE BEEN ENGINEERED. ADDITION OF CONTINUOUS REBAR OR LARGER FOOTINGS MAY BE PROVIDED AT THE DISCRETION OF THE BUILDER.



7A TYP. FOOTING @ PORCH SLAB
SCALE: 3/8"=1'-0"

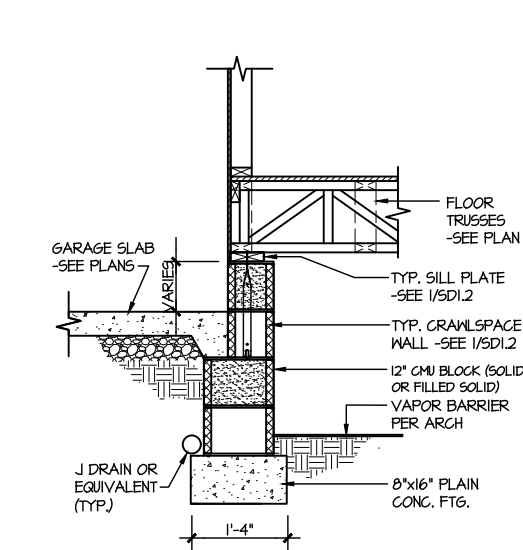
7B TYP. FOOTING @ PORCH SLAB
SCALE: 3/8"=1'-0" w/ BRICK VENEER



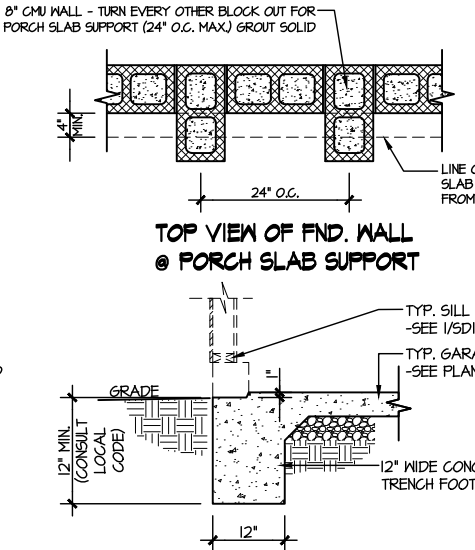
8 TYPICAL CRAWLSPACE FND. @ INTERIOR PIER
SCALE: 3/8"=1'-0"

5 TYPICAL CRAWLSPACE FOUNDATION @ PORCH/PATIO SLAB
SCALE: 3/8"=1'-0"
(REFER TO DETAIL 12 FOR WOOD PORCH OPTION)

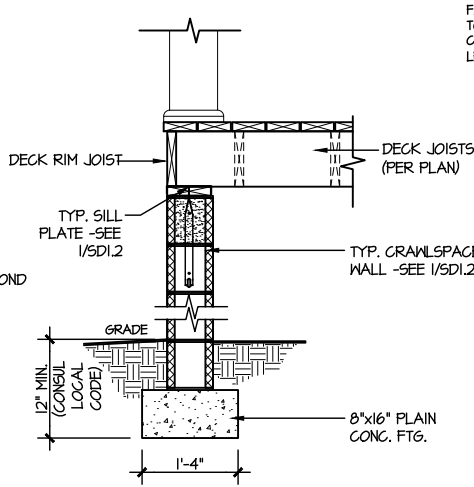
6 TYPICAL CRAWLSPACE FOUNDATION @ PORCH/PATIO SLAB
SCALE: 3/8"=1'-0" w/ BRICK VENEER



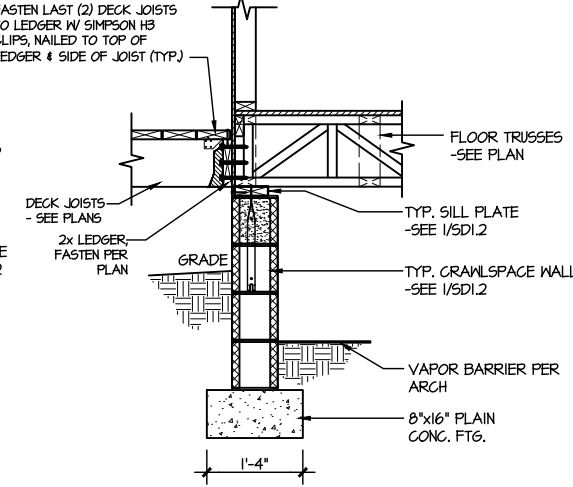
9 TYPICAL CRAWLSPACE FOUNDATION @ GARAGE
SCALE: 3/8"=1'-0"



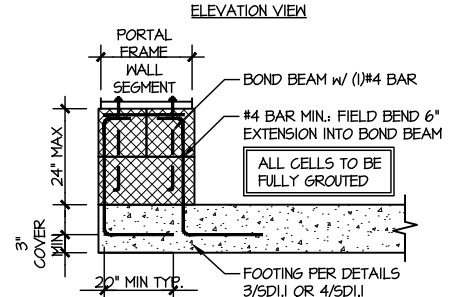
10 TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING
SCALE: 3/8"=1'-0"



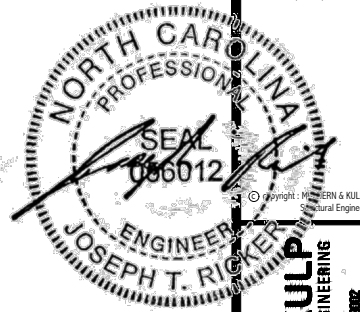
11 TYPICAL CRAWLSPACE FOUNDATION @ WOOD PORCH/DECK PERIMETER
SCALE: 3/8"=1'-0"



12 TYPICAL CRAWLSPACE FOUNDATION @ WOOD PORCH/DECK
SCALE: 3/8"=1'-0"



A GARAGE PORTAL FRAME STEM WALL REINFORCEMENT
SCALE: 3/8"=1'-0"



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
300 Dunsmuir Ave. Building 4 - Asheville, PA 15802
P 215-546-5001 - mulhern+kulp.com
NC LICENSE #C-3825



M&K project number:

126-24045

project mgr:

JTR

drawn by:

KJN

issue date:

04-30-25

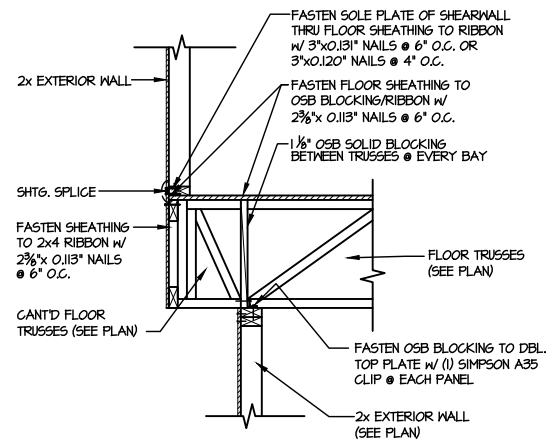
REVISIONS:

DRB HOMES

FRAMING DETAILS
CAMPBELL RIDGE
LOT 19 - JORDAN 5
RALEIGH, NC

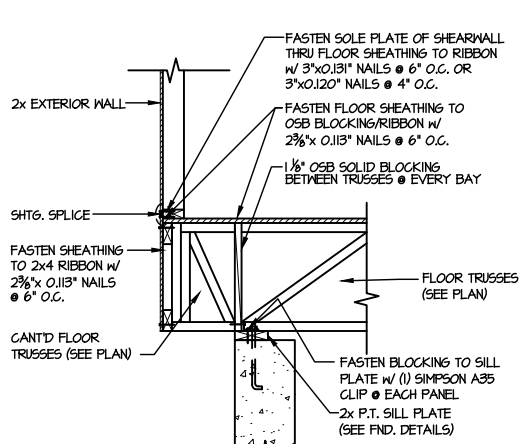
sheet:

SD2.1A



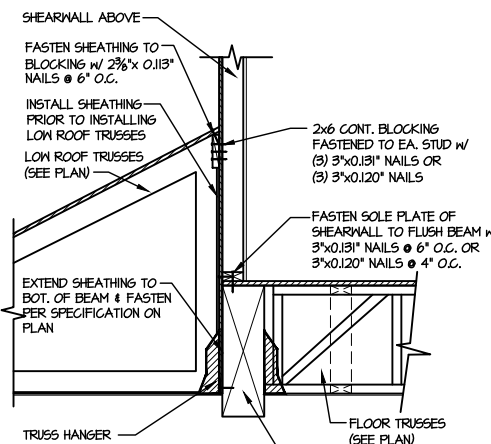
1 SHEAR TRANSFER DETAIL BETWEEN FLOORS @ CANT'D EXT. WALL

1



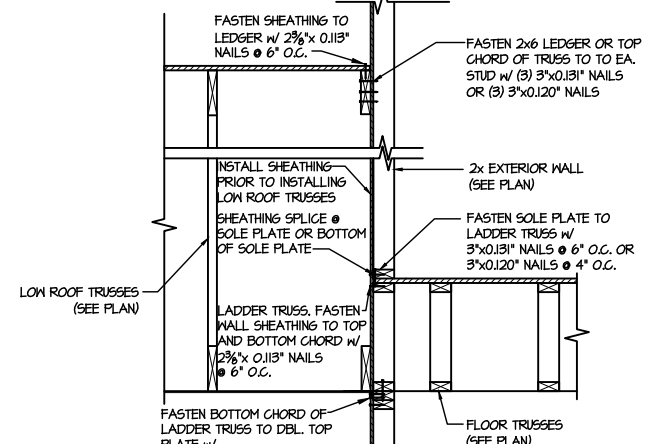
2 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL

2



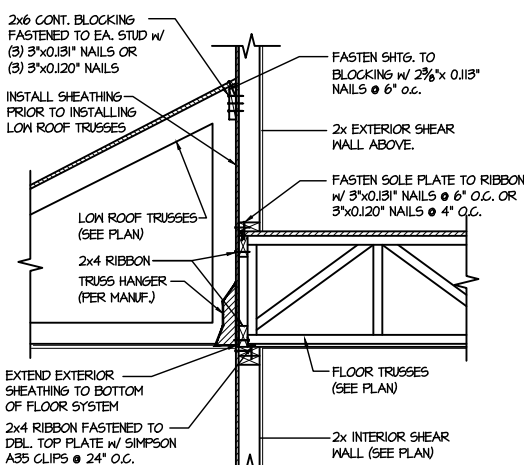
3 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE

3



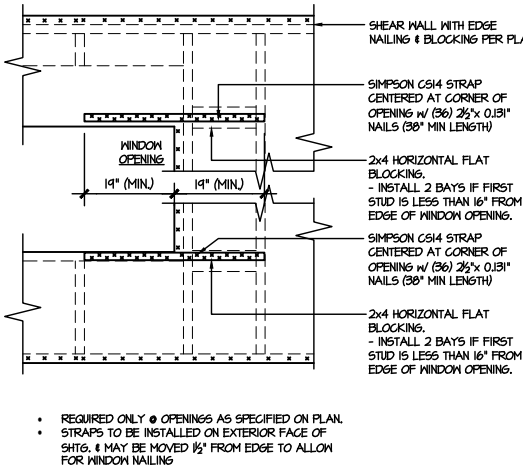
4 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

4



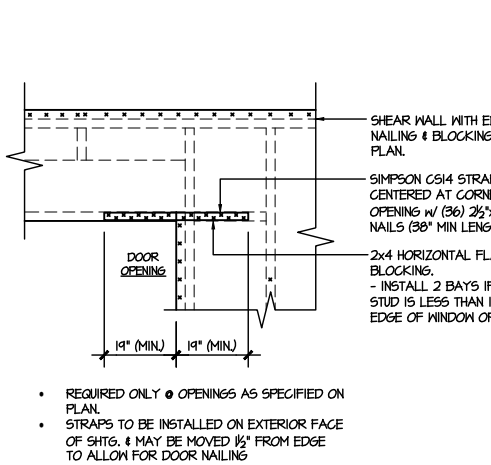
5 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

5



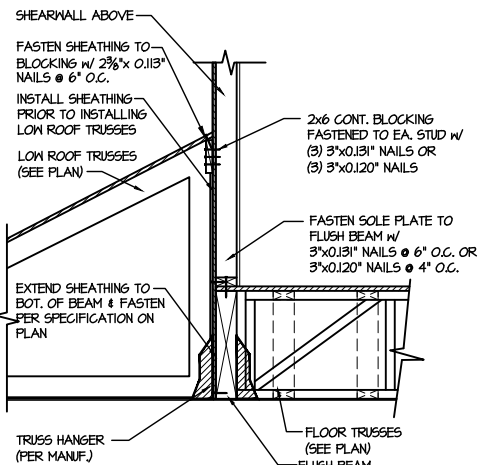
6A TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION

6A



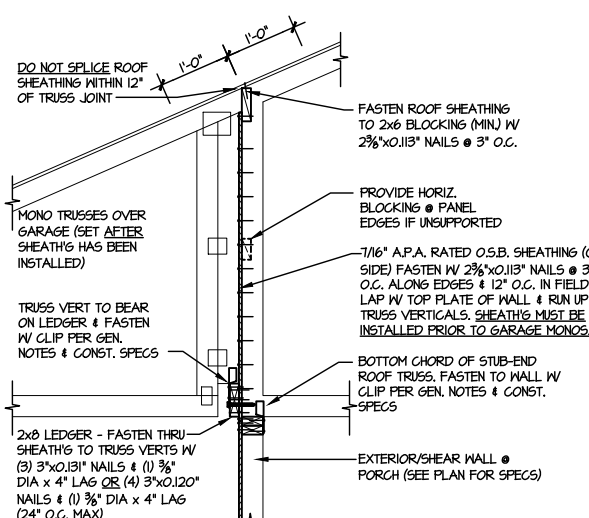
6B TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION

6B



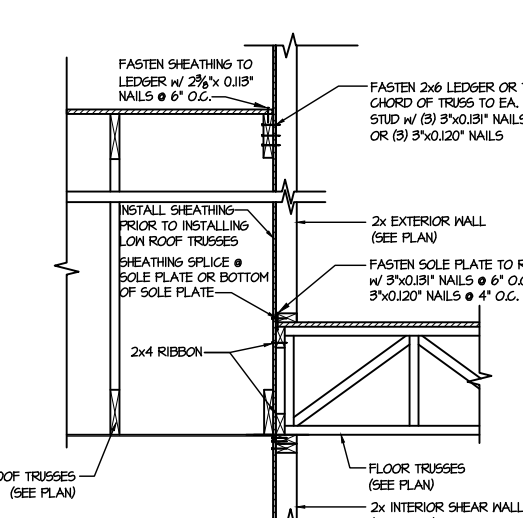
7 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE

7



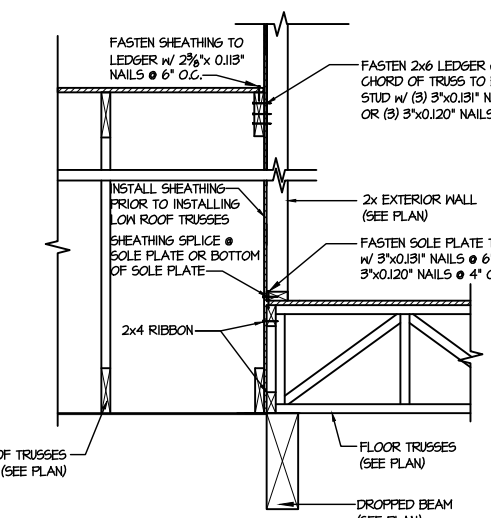
8 SHEAR TRANSFER DETAIL @ BREAK IN TRUSSES OVER SHEAR WALL

8



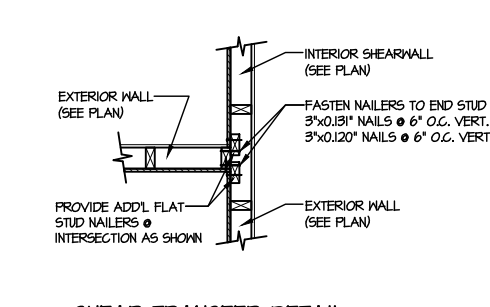
9 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

9



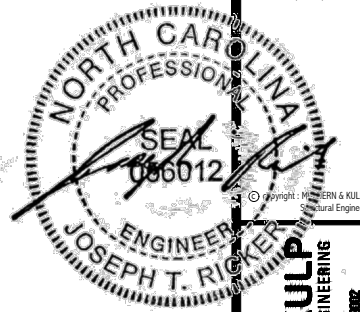
10 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

10



11 SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARWALL

11



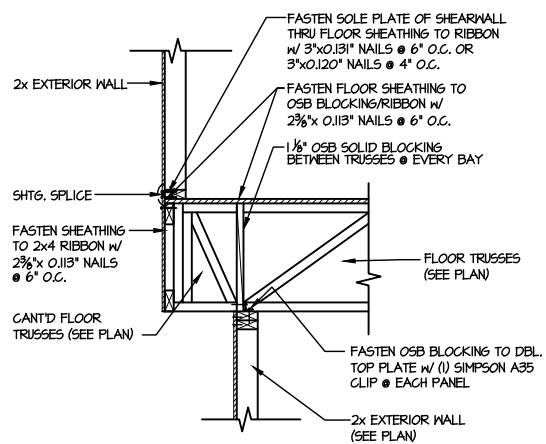
MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
300 Dunsmuir Ave. Building 4 - Asheville, PA 15002
P: 215-548-3001 - mulhern+kulp.com
NC LICENSE #C-3825

M&K project number:
126-24045
project mgr: **JTR**
drawn by: **KJN**
issue date: **04-30-25**

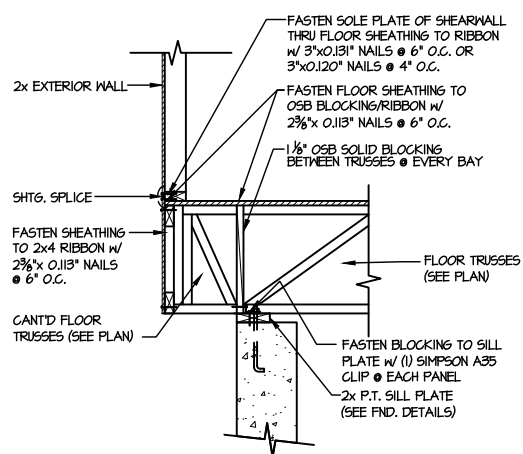
DRB HOMES

FRAMING DETAILS
CAMPBELL RIDGE
LOT 19 - JORDAN 5
RALEIGH, NC

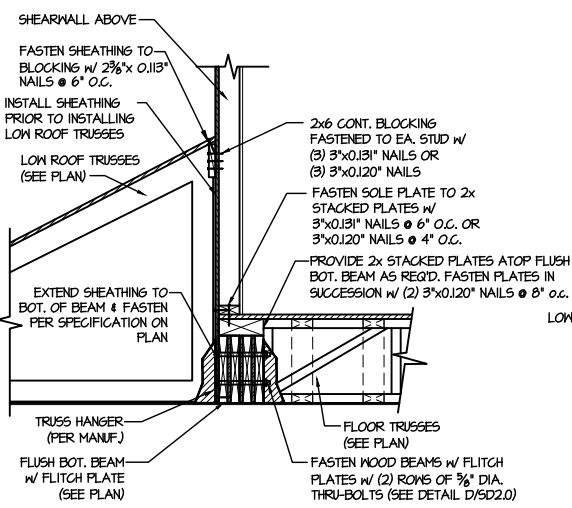
sheet:
SD2.1B



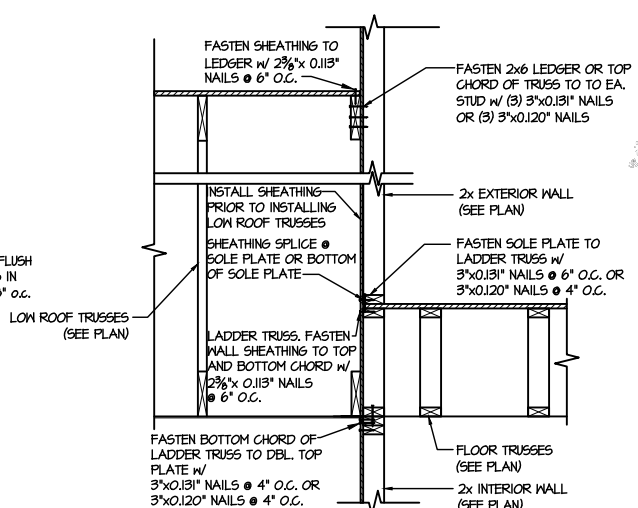
1
SHEAR TRANSFER DETAIL BETWEEN FLOORS @ CANT'D EXT. WALL
SCALE: 3/4"=1'-0"



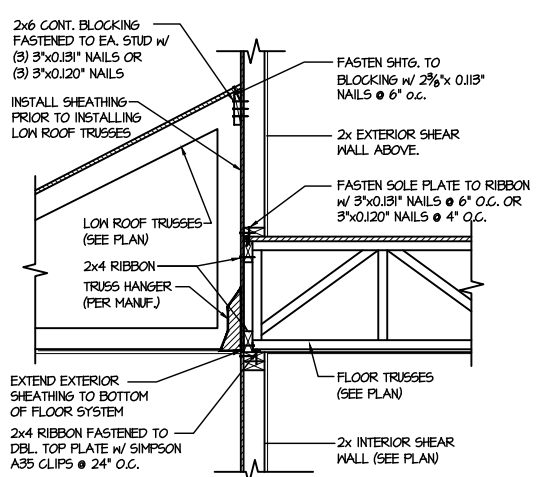
2
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
SCALE: 3/4"=1'-0" PERPENDICULAR FRAMING



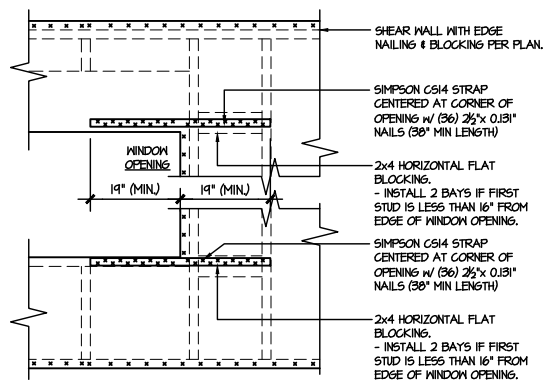
3
SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE
SCALE: 3/8"=1'-0"



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

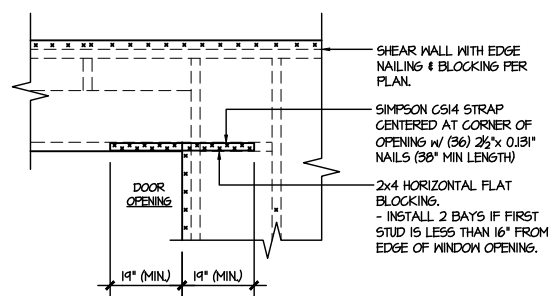


5
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL
SCALE: 3/4"=1'-0" PERPENDICULAR FRAMING



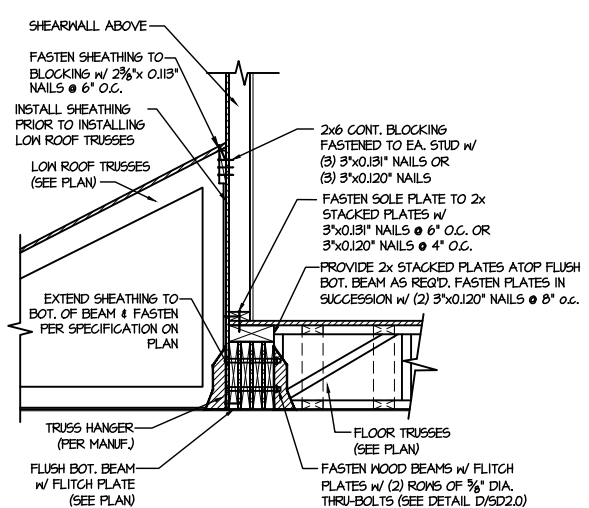
- REQUIRED ONLY @ OPENINGS AS SPECIFIED ON PLAN.
- STRAPS TO BE INSTALLED ON EXTERIOR FACE OF SHTG. & MAY BE MOVED 1/2" FROM EDGE TO ALLOW FOR WINDOW NAILING.

6A
TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION
SCALE: NTS

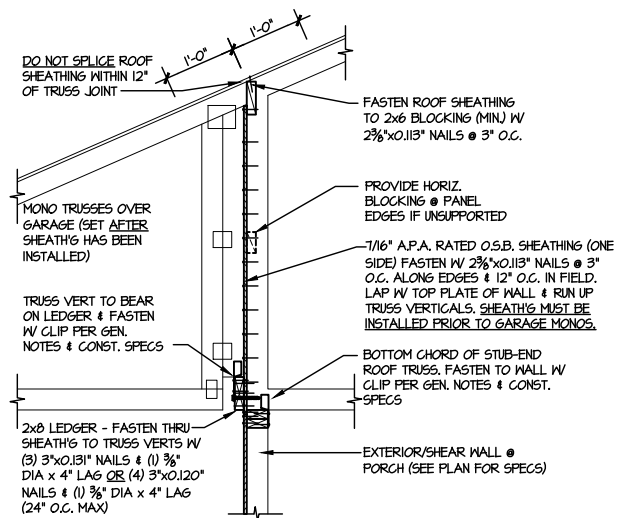


- REQUIRED ONLY @ OPENINGS AS SPECIFIED ON PLAN.
- STRAPS TO BE INSTALLED ON EXTERIOR FACE OF SHTG. & MAY BE MOVED 1/2" FROM EDGE TO ALLOW FOR DOOR NAILING.

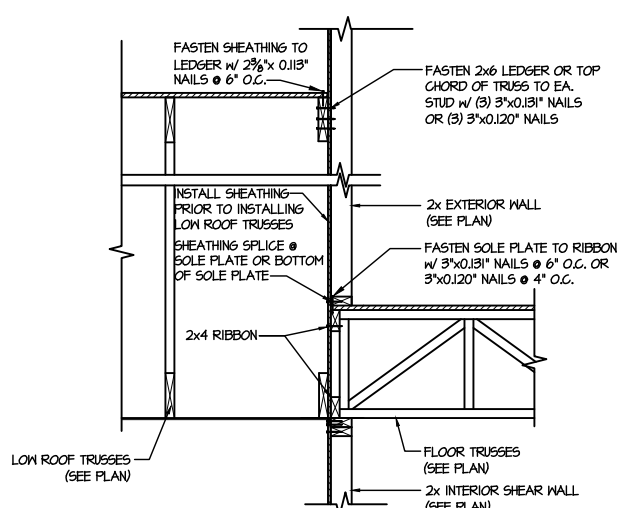
6B
TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION
SCALE: NTS



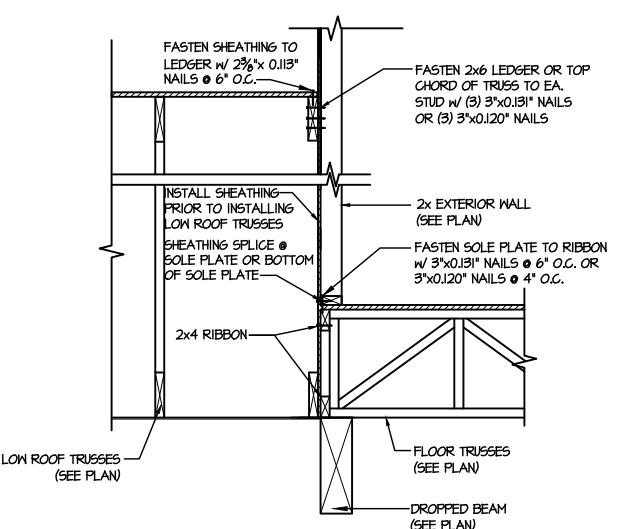
7
SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE
SCALE: 3/4"=1'-0"



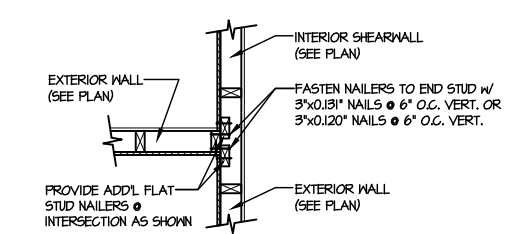
8
SHEAR TRANSFER DETAIL @ BREAK IN TRUSSES OVER SHEAR WALL
SCALE: 3/4"=1'-0" - 22x84 3/8"=1'-0" - 10x7



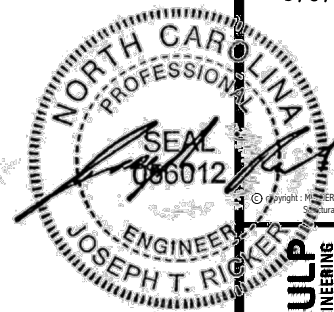
9
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL
SCALE: 3/4"=1'-0"



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



11
SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARWALL
SCALE: 3/4"=1'-0" SHTG. ON SAME FACE



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
300 Riverside Ave. Building 4 - Asheville, NC 28801
P: 252-598-2001 - mulhern+kulp.com
NC LICENSE #C-3825

M&K project number:
126-24045

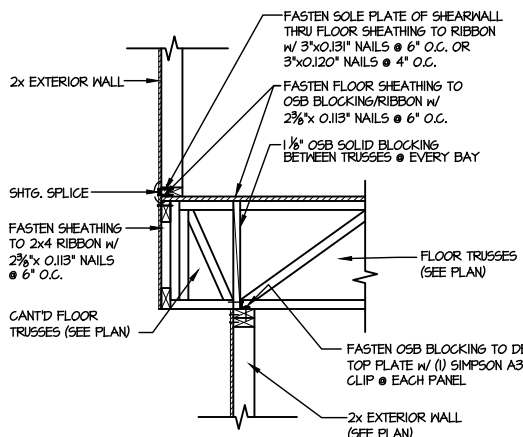
project mgr: JTR
drawn by: KJN
issue date: 04-30-25

REVISIONS:

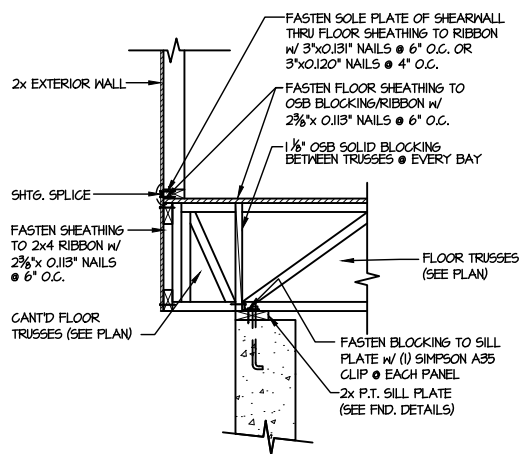
DRB HOMES

FRAMING DETAILS
CAMPBELL RIDGE
LOT 19 - JORDAN 5
RALEIGH, NC

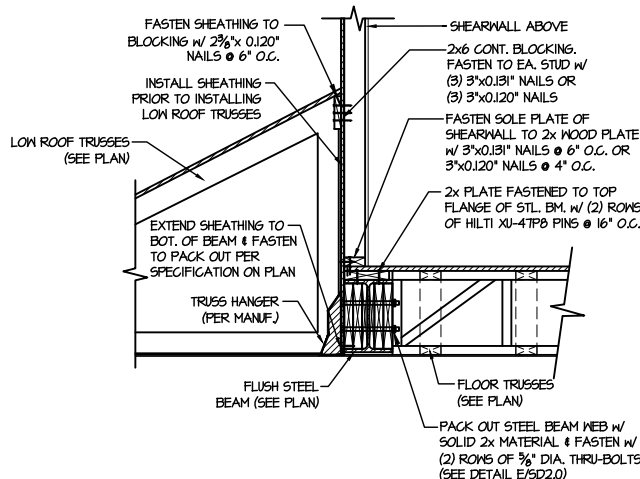
sheet:
SD2.1C



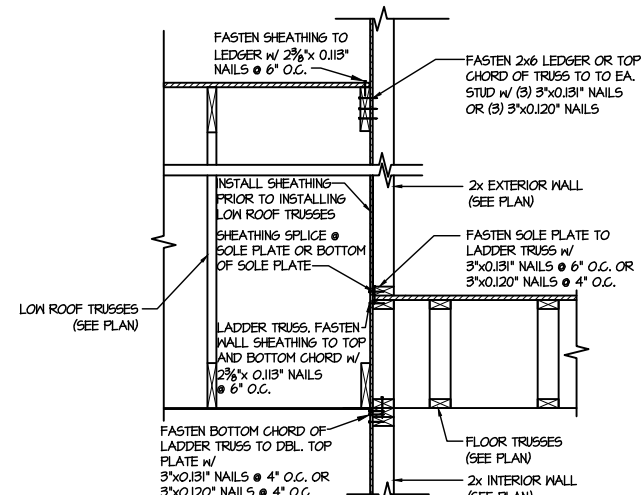
1 SHEAR TRANSFER DETAIL BETWEEN FLOORS @ CANT'D EXT. WALL
SCALE: 3/4"=1'-0"



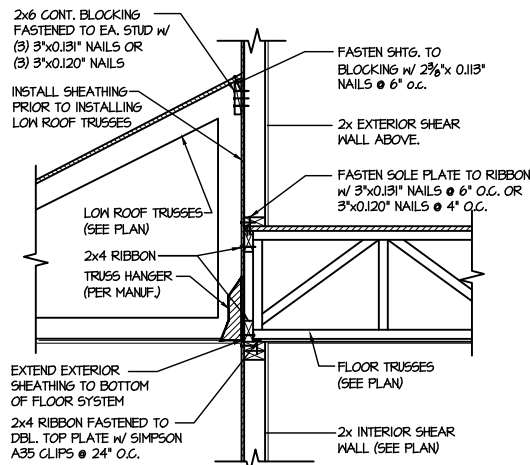
2 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
SCALE: 3/4"=1'-0" PERPENDICULAR FRMS



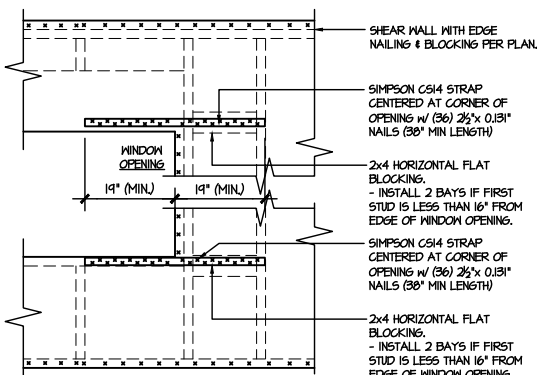
3 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE
SCALE: 3/8"=1'-0"



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

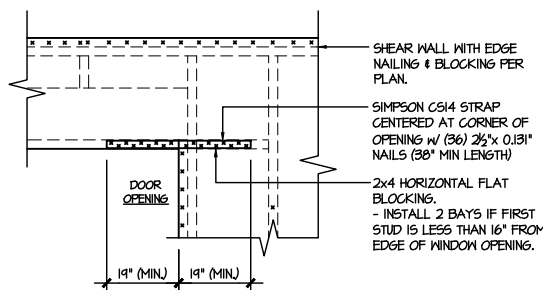


5 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL
SCALE: 3/4"=1'-0" PERPENDICULAR FRAMING



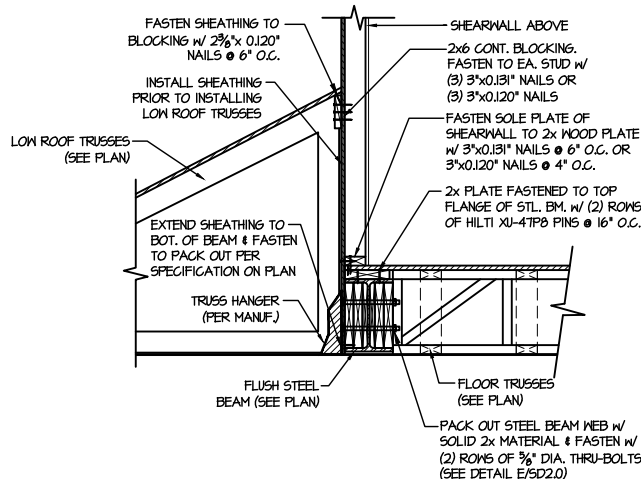
• REQUIRED ONLY @ OPENINGS AS SPECIFIED ON PLAN.
• STRAPS TO BE INSTALLED ON EXTERIOR FACE OF SHTG. & MAY BE MOVED 1/2" FROM EDGE TO ALLOW FOR WINDOW NAILING.

6A TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION
SCALE: NTS

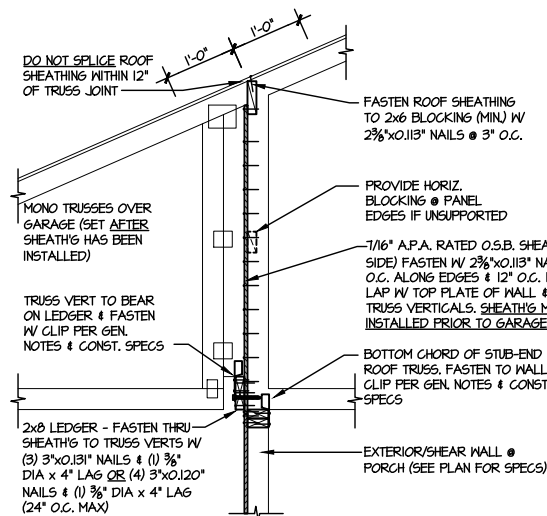


• REQUIRED ONLY @ OPENINGS AS SPECIFIED ON PLAN.
• STRAPS TO BE INSTALLED ON EXTERIOR FACE OF SHTG. & MAY BE MOVED 1/2" FROM EDGE TO ALLOW FOR DOOR NAILING.

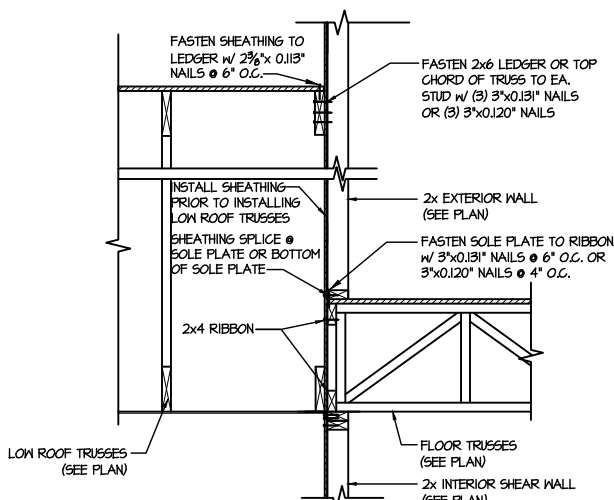
6B TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION
SCALE: NTS



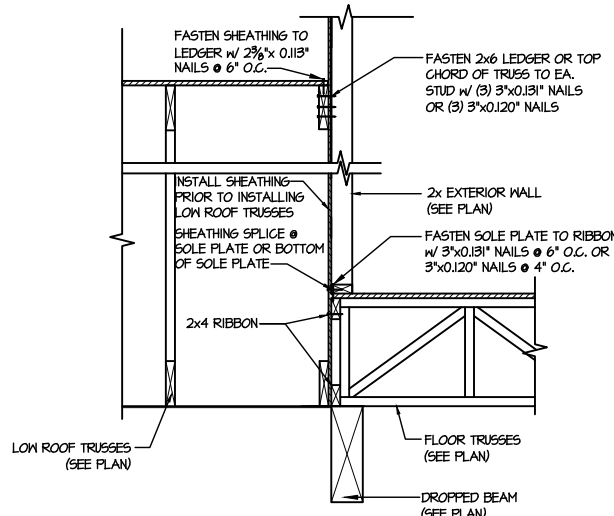
7 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE
SCALE: 3/4"=1'-0"



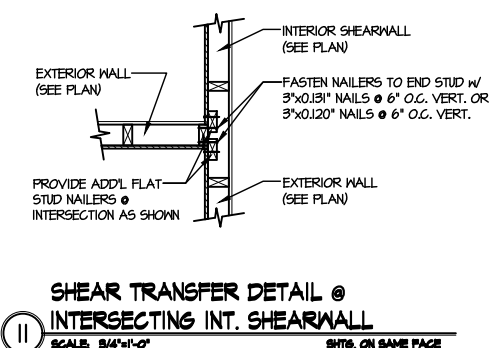
8 SHEAR TRANSFER DETAIL @ BREAK IN TRUSSES OVER SHEAR WALL
SCALE: 3/4"=1'-0" - 22x84
3/8"=1'-0" - 18x7



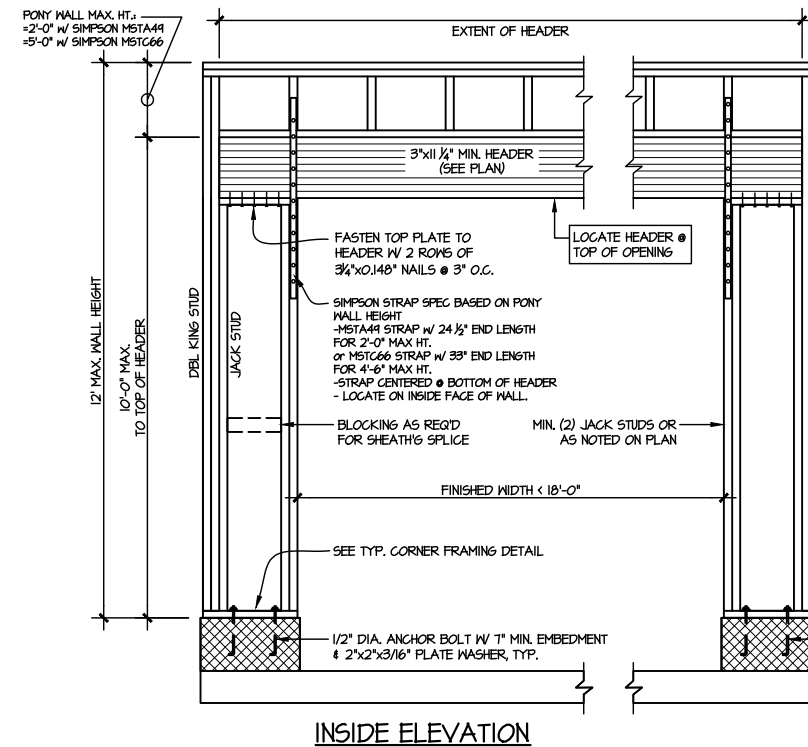
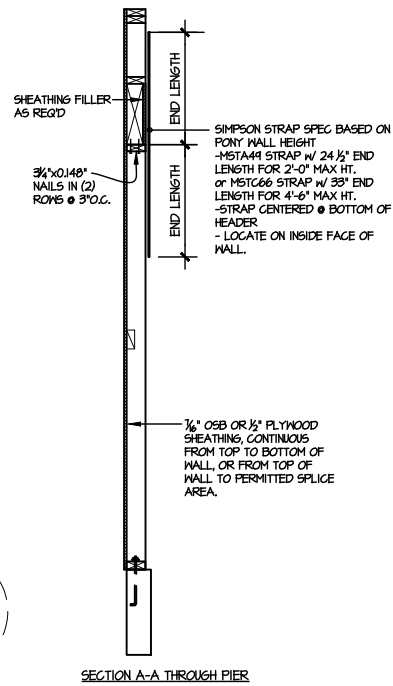
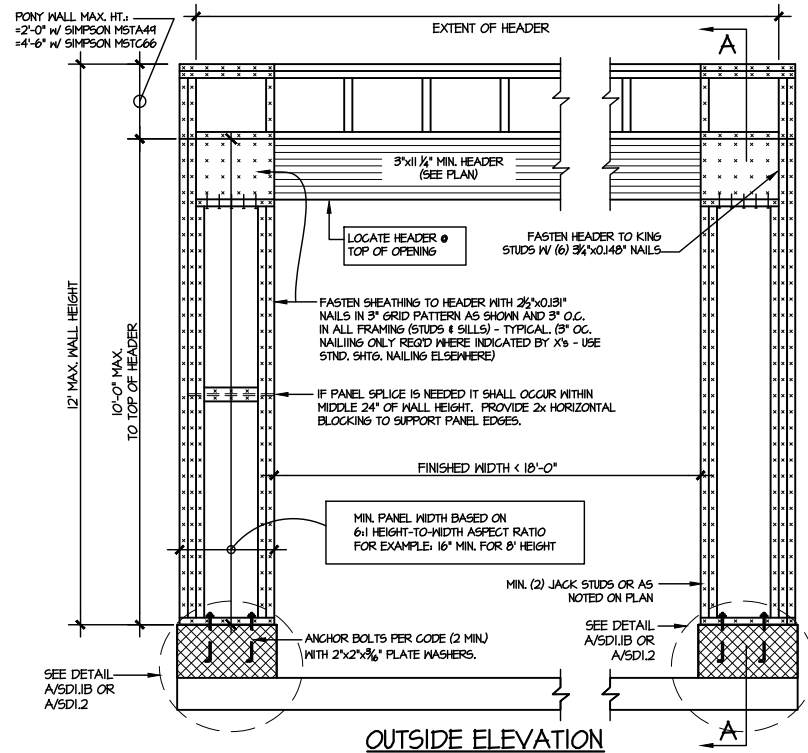
9 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL
SCALE: 3/4"=1'-0"



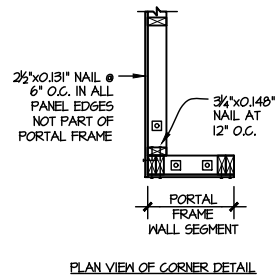
10 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL
SCALE: 3/4"=1'-0"



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



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

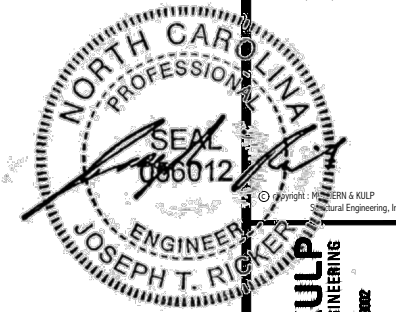


ALTERNATIVE TO 1/2" DIA. ANCHOR BOLT:
1) 1/2" DIA. THREADED ROD EPOXY SET
W/ 4 1/2" EMBED. (MIN) UTILIZING HILTI HY200
EPOXY ANCHORING SYSTEM (OR EQUAL)

TWO SIDED GARAGE PORTAL FRAME BRACING
ELEVATION ON CMU STEM

2

SCALE: N.T.S.



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
300 Dunsmuir Ave., Building 4 - Durham, NC 27602
P 215-546-2001 - mulhernkulp.com
NC LICENSE #C-3825

M&K project number:
126-24045

project mgr: JTR
drawn by: KJN
issue date: 04-30-25

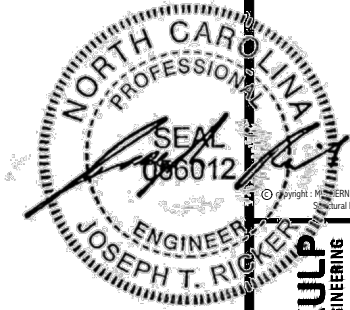
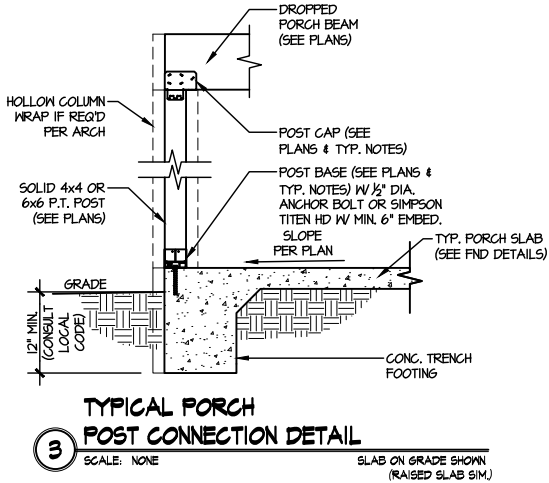
REVISIONS:

DRB
HOMES

FRAMING DETAILS
CAMPBELL RIDGE
LOT 19 - JORDAN 5
RALEIGH, NC

sheet:

SD2.2



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

300 Dunsmuir Ave. Building 4 • Asheville, PA 15002
P 215-546-5001 • mulhern+kulp.com
NC LICENSE #C-3825

M&K project number:
126-24045

project mgr: JTR
drawn by: KJN
issue date: 04-30-25

REVISIONS:



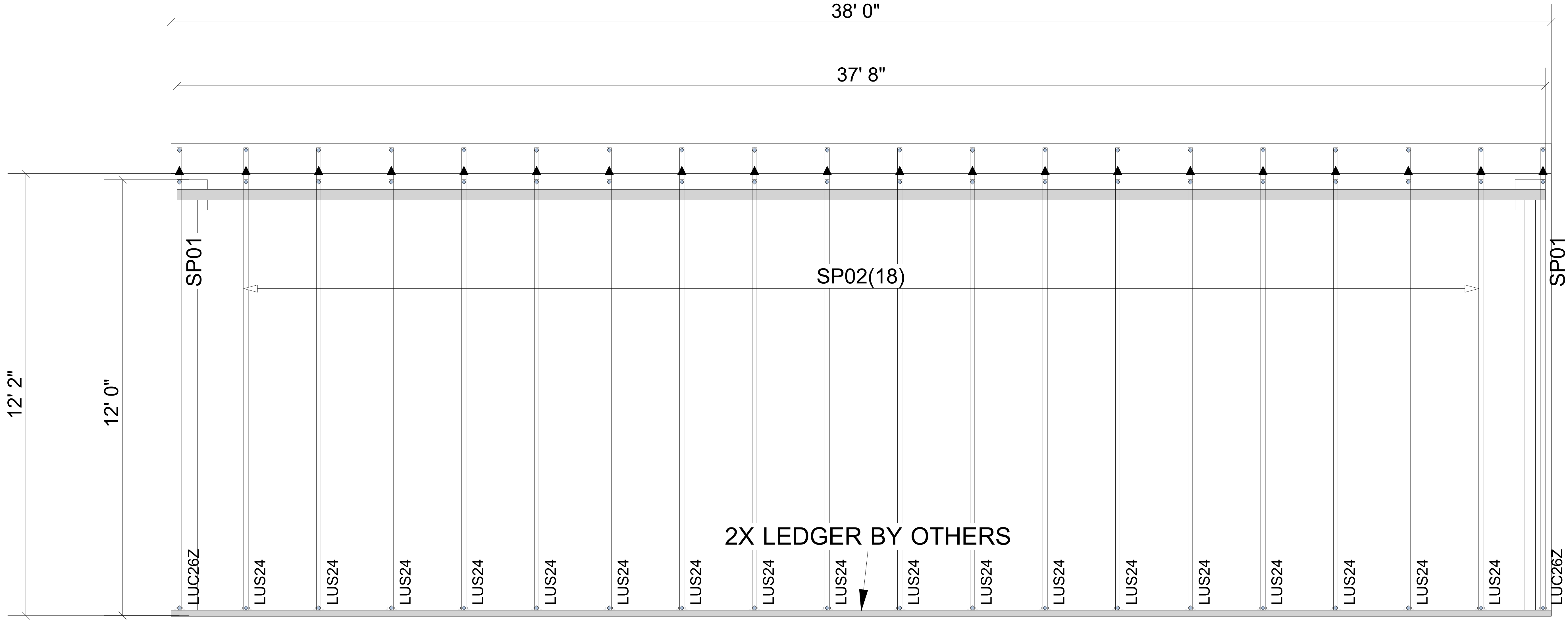
FRAMING DETAILS

CAMPBELL RIDGE

LOT 19 - JORDAN 5

RALEIGH, NC

sheet:
SD3.0



Truss Connector Total List		
Manuf	Product	Qty
Simpson	LUC26Z	2
Simpson	LUS24	18

WARNING! Long span trusses, 60' or greater in length, require extreme care and experience for proper and safe handling and installation. For general handling and installation guidance, see the "Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses ("BCSI")", JOINTLY PRODUCED BY SBCA and TPI. For project specific guidance, consult with a registered design professional. ATLANTIC assumes no responsibility for the handling, installation or bracing of trusses.

REVISIONS:



Moncks Corner/Easley, SC (800) 475-3999
Sparta, NC (336) 372-2226

▲ = LEFT END OF TRUSS

FOR PERMIT

Client: DRB GROUP-RALEIGH

Job: LOT 0.0019 CAMPBELL RIDGE

Plan Information: JORDAN-5

NOT TO SCALE

Date: 04/21/25

Drawn By: CGT

Sales Rep: KYLE GIBSON

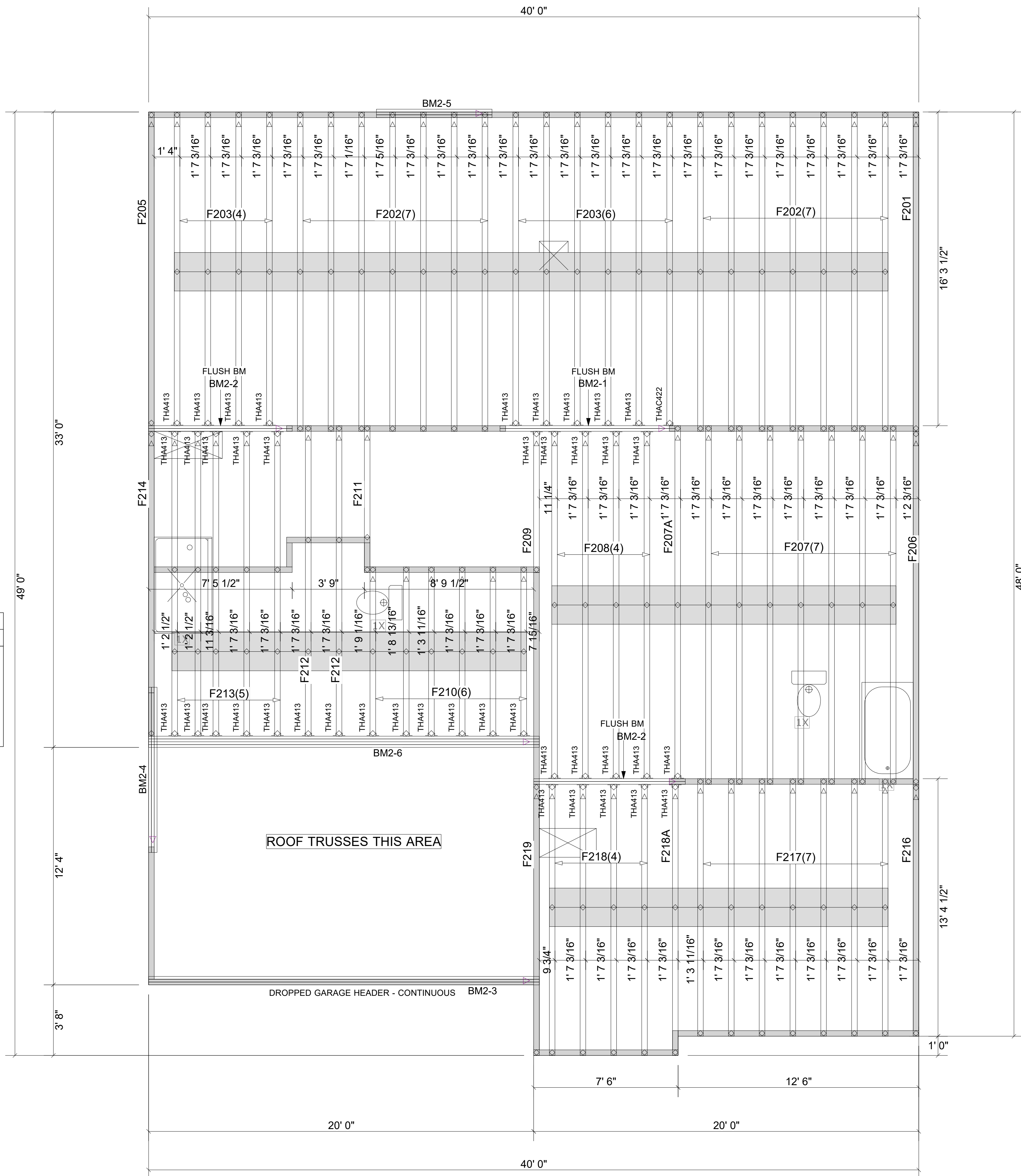
Job #: 25-3719-R01

Phone:

ROOF

		Products			
Net Qty	Plies		Product	Length	PlotID
2	2	1-3/4" x 14"	VERSA-LAM® 2.0 3100 SP	10' 0"	BM2-1
4	2	1-3/4" x 14"	VERSA-LAM® 2.0 3100 SP	8' 0"	BM2-2
3	3	1-3/4" x 16"	VERSA-LAM® 2.0 3100 SP	22' 0"	BM2-3
3	3	1-3/4" x 9-1/2"	VERSA-LAM® LVL 2.1E 3100 SP	10' 0"	BM2-4
3	3	1-3/4" x 9-1/2"	VERSA-LAM® LVL 2.1E 3100 SP	6' 0"	BM2-5
4	4	1-3/4" x 18"	VERSA-LAM® LVL 2.1E 3100 SP	22' 0"	BM2-6

Truss Connector Total List		
Qty	Product	Manuf
42	THA413	Simpson
1	THAC422	Simpson



WARNING! Long span trusses, 60' or greater in length, require extreme care and experience for proper and safe handling and installation. For general handling and installation guidance, see the "Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), JOINTLY PRODUCED BY SBCA and TPI. For project specific guidance, consult with a registered design professional. ATLANTIC assumes no responsibility for the handling, installation or bracing of trusses.

▲ = LEFT END OF TRUSS

FOR PERMIT

REVISIONS:

Client: DRB GROUP-RALEIGH

Job: LOT 0.0019 CAMPBELL RIDGE

Plan Information:

JORDAN-5

Moncks Corner/Easley, SC (800) 475-3999
Sparta, NC (336) 372-2226

Date: 04/21/25

Job #:

Drawn By:

Sales Rep: KYLE GIBBS
Phone: 864-304-3282

FLOOR

