MILLHAVEN-RALE

RALEIGH - LOT 00.0076 THE FARM AT NEILL'S CREEK

(MODEL# 2379)

ELEVATION 2 - GR

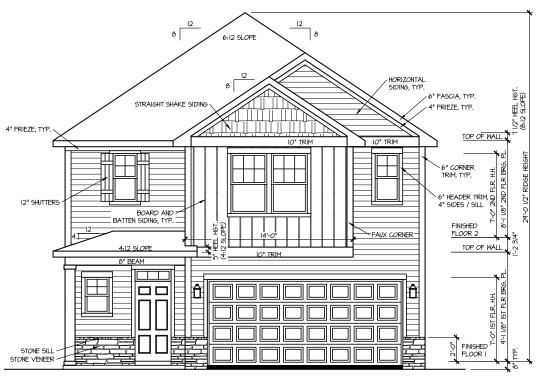
<u>INDEX</u>



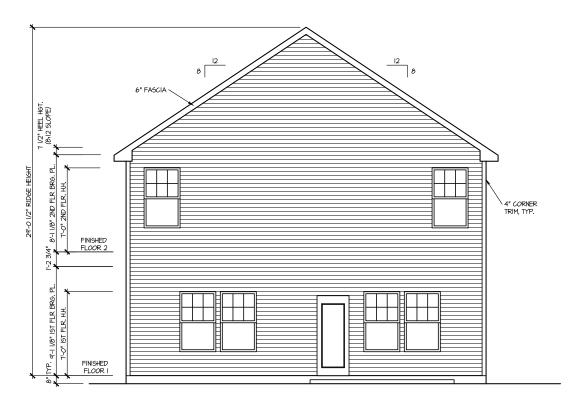
AREA CALCULATIONS				
			COVERED / UNHEATED	
ELEVATION 2		HEATED	UNHEATED	UNCOVERED
FIRST FLOOR		1065 SF		
GARAGE			390 SF	
FRONT PORCH - ELEVATION 2			42 SF	
REAR PATIO		4750.05		120 SF
SECOND FLOOR		1352 SF		
ТОТ	ΔI	2417 SF	432 SF	120 SF
101	AL	Z#1/ 3F	432 SF	120 35

241 Winding Creek Dr.

LOT	SPECIFIC	
1	LOT 00.0076	
<u> </u>	201 00.0070	MILLHAVEN REV. RALE 1 ELEVATION 2
2	ADDRESS	241 WINDING CREEK DR LILLINGTON, NC 27546
	ABBILLOS	ZIT WINDING GREEK DIV ELEEMGTON, NO 27010



FRONT ELEVATION 2



REAR ELEVATION 2 SCALE: 1/0° = 1'-0°

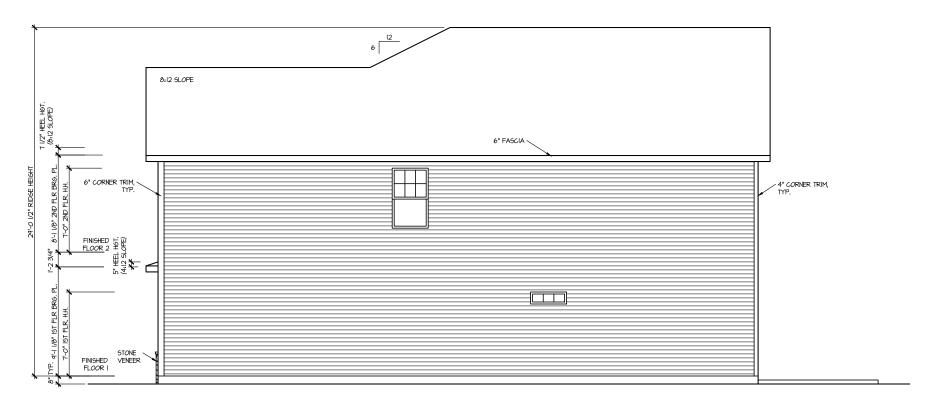
DRAWN BY: ITS DATE: 07/01/2024 PLAN NO. 2379



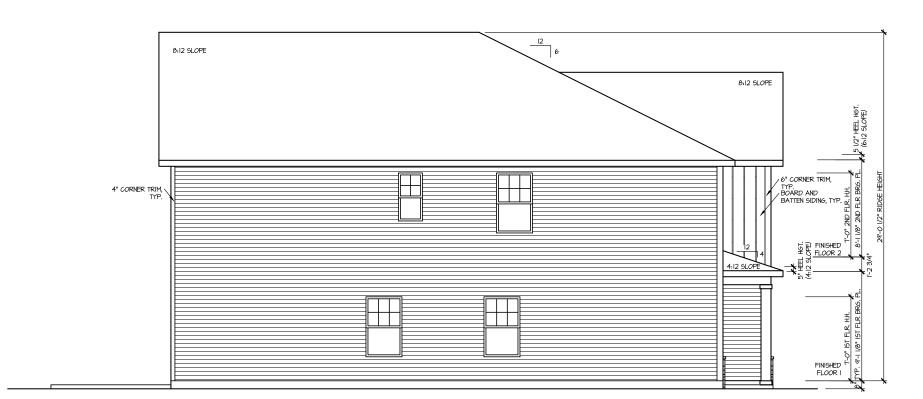
REAR ELEVATIONS

HOUSE NAME:
MILLHAVEN
DRAWING TITLE
FRONT & REAR

SHEET No.



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



LEFT ELEVATION 2 SCALE, 1/8° = 1'-0"

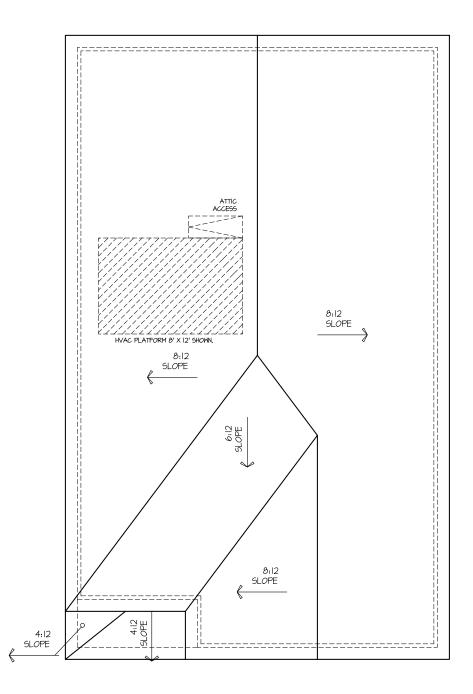
DRAWN BY:

DATE: 07/01/2024 PLAN NO. 2379



ELEVATIONS HOUSE NAME:
MILLHAVEN
DRAWING TITLE
RIGHT & LEFT E

SHEET No.



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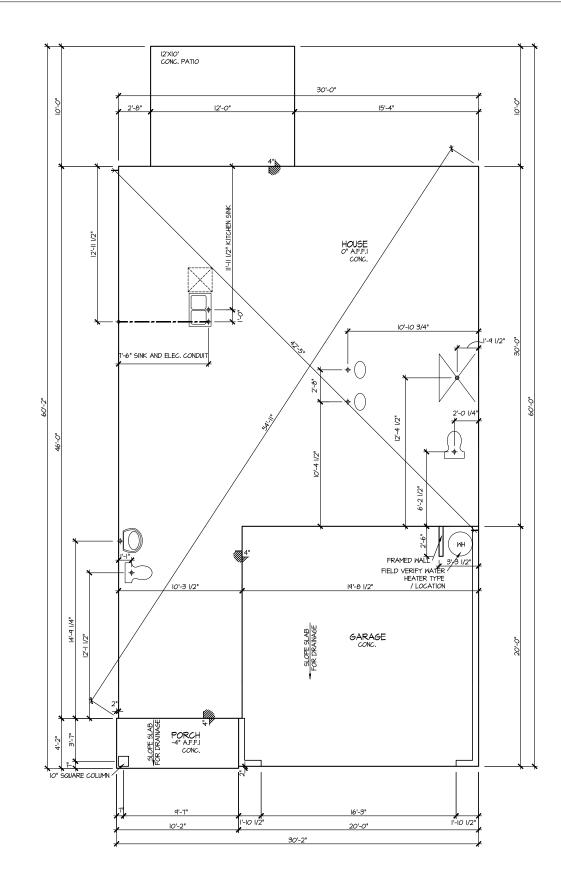
DATE: 07/01/2024



HOUSE NAME:
MILLHAVEN
DRAWING TITLE
ROOF PLAN

SHEET No.

ROOF PLAN ELEV. 2



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

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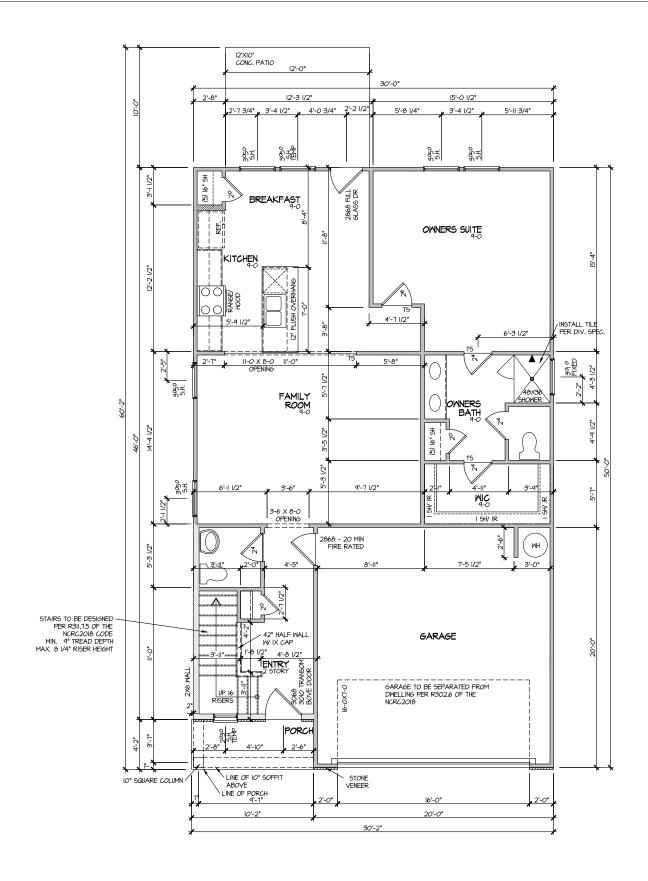
DATE: 07/01/2024 PLAN NO. 2379



HOUSE NAME:
MILLHAVEN
DRAWING TITLE
SLAB PLAN

SHEET No.

A2.1



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

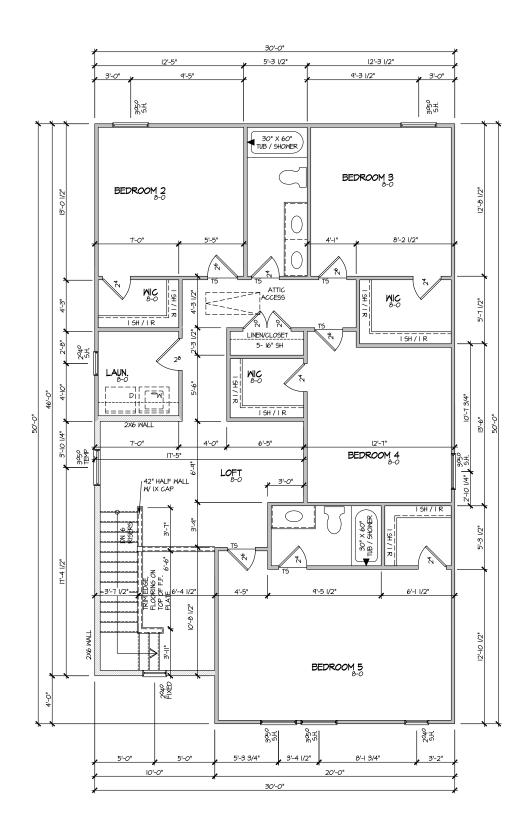
DRAWN BY:

DATE: 07/01/2024 PLAN NO. 2379



HOUSE NAME:
MILLHAVEN
DRAWING TITLE
FIRST FLOOR F

SHEET No. A3.1



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

DRAWN BY:

DATE: 07/01/2024 PLAN NO. 2379

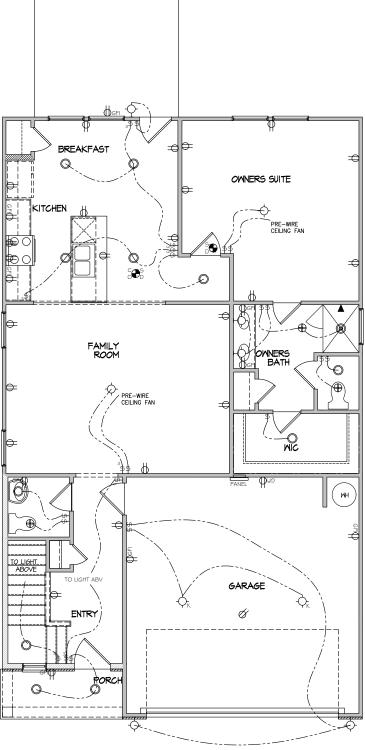


1 0 0 0 HOUSE NAME:
MILLHAVEN
DRAWING TITLE
SECOND FLOOF

SHEET No.

A3.2

EL	ECTRICAL LEGEND
CEILING FAN W/ LIGHT KIT	
CEILING MOUNT LIGHT	<i></i>
LED PUCK LIGHT	0
WALL MOUNTED LIGHT	ф
MOTION SENSOR LIGHT	<i>\$</i>
I I OV OUTLET	Ф
GFI OUTLET	∂ GFI
WATERPROOF OUTLET	₩P
220V OUTLET	₩
SWITCH	\$
3-WAY SWITCH	3
TV JACK	TV
PHONE JACK	● ∆
EXHAUST FAN	⊕
HANGING LIGHT	- (j) -
SD / CO COMBO DETECTOR	5 0 C
KEYLESS LAMPHOLDER	-Q _K
PENDANT LIGHT	×



ELECTRICAL PLAN FIRST FLOOR - ELEV. 2 SCALE: 1/8" = 1'-0"

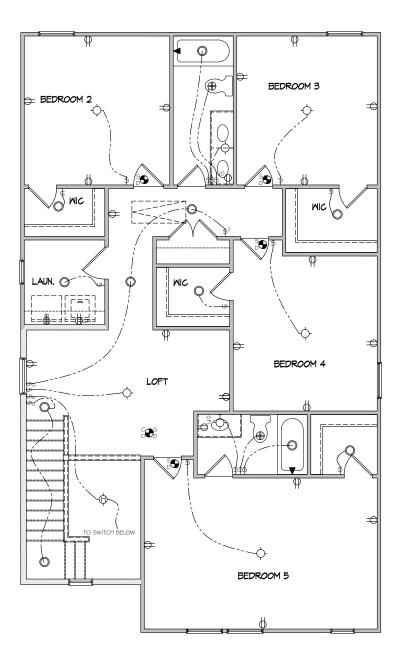
DRAWN BY: DATE: 07/01/2024 PLAN NO. 2379

HOUSE NAME:
MILLHAVEN
DRAWING TITLE
FIRST FLOOR E

SHEET No.

≣|.|

ELECTRICAL LEGEND		
CEILING FAN W/ LIGHT KIT		
CEILING MOUNT LIGHT		
LED PUCK LIGHT	0	
WALL MOUNTED LIGHT	Image: Control of the control of th	
MOTION SENSOR LIGHT	<i>\$</i> 0 <i>5</i>	
I I OV OUTLET	Ф	
GFI OUTLET	₩GFI	
WATERPROOF OUTLET	₩P	
220V OUTLET	•	
SWITCH	\$	
3-WAY SWITCH	⊕.	
TV JACK	TV	
PHONE JACK	③ ∆	
EXHAUST FAN	⊕	
HANGING LIGHT	Ф	
SD / CO COMBO DETECTOR	5 C C	
KEYLESS LAMPHOLDER	- 	
PENDANT LIGHT	×	



DRAWN BY:

DATE: 07/01/2024 PLAN NO. 2379



HOUSE NAME:
MILLHAVEN
DRAWING TITLE
SECOND FLOOF

SHEET No.

FOUNDATION

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
- FOOTING DESIGN 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY
- FASTEN 2x4/6 SILL PLATES TO FND WITH A MINIMUM OF 2 ANCHORS PER PLATE 12" MAX FROM PLATE ENDS - LITH 17ING
- (CONC.) 15" MIN EMBEDMENT (CMU)
- SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C. (CONC)
- (REFER TO DETAILS FOR IO' TALL WALL ANCHOR REQUIREMENTS)
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ CONCRETE OR CMU SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED WOOD, CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- BASEMENT INTERIOR BEARING WALLS & EXTERIOR WALK-OUT BASEMENT WALLS SHALL BE 2x6 @ 16" O.C. SPF OR SYP, "STUD" GRADE OR BETTER.
- CONCRETE DESIGN BASED ON ACL 318 CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.: 4,000 psi: FOUNDATION WALLS
 - 2,500 psi: FOOTINGS & INTERIOR SLABS ON GRADE 3,000 psi: GARAGE & EXTERIOR SLABS ON GRADE
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
- . 9' OR IO' HEIGHT (AS NOTED ON PLANS)
- TALLER WALLS MUST BE ENGINEERED.
- NOMINAL WIDTH (9½" 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. REINFORGEMENT SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS
- FOR OPENINGS UP TO 36", PROVIDE MINIMUM IO" CONCRETE DEPTH OVER OPENING OR (3)2x10 W (2)2x6 JACK STUDS, U.N.C
- LARGER OPENINGS SHALL BE PER PLAN.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT
- ALL FOOTINGS SHALL BEAR AT LEAST 12" BELOW FINISH GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP
- JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-O" OC (MAXIMUM) JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS
- POSSIBLE (I.I RATIO) WITH A MAXIMIM OF I.I.S PATIO
- · CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL
- CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 WITH A MIN. COMPRESSIVE STRENGTH OF 1900 psi (Fm=1500 psi). MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 & 530.1.
- 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 CRAW SPACE PIERS. ALL PIERS SHALL BE GROUTED SOLID.
- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRAWL SPACE WALLS, FASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE.
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY.
- BUILDER TO VERIFY THAT MODEL HAS BEEN ADEQUATELY TREATED BY A LICENSED AND BONDED PEST CONTROL COMPANY FOR SUBTERRANEAN TERMITES. METHOD AND TYPE OF TREATMENT TO BE DETERMINED BY PEST CONTROL COMPANY

GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING 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. LOAD DURATION FACTOR = 1.25

FLOOR LIVE = 40 PSF (30 PSF @ SI FEPING AREAS) DEAD = 10 PSF (1-JOISTS & SOLID SAWN) IO PSF T.C., 5 PSF B.C. (TRUSSES)

LATERAL 120 MPH, EXPOSURE B. SEISMIC A/B.

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

(ADD'L IO PSF @ TILE)

GENERAL FRAMING

- ALL TYP. NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE OR ON PLANS ALL NAILS SPECIFIED ARE MIN 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
- EXT & INT BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS 16" O.C. SPF OR SYP "STUD" GRADE LUMBER, OR BETTER, UN.O.
 WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRICE-PINE-FIR #2 (SPF) OR SOUTHERN PINE #2 (SYP) LIMBER, 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=3I0 psi; E=I.55xI0^6 psi
- 'LVL' Fb=2600 psi; Fv=285 psi; E=2.0xl0^6 ps
- 'PSL' FB=2900 PSI; FV=290 PSI; E=2.0XI0^6 PSI M+K SHALL BE FULLY INDEMNIFIED FOR ANY AND ALL ISSUES RESULTING FROM OR RELATED TO ANY BUILDING COMPONENT IF THE OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO M+K FOR STRUCTURAL REVIEW PRIOR TO FABRICATION, DELIVERY, OR
- FOR 2 & 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 8" O/C OR 2 ROWS 1/4"x31/5" SIMPSON SDS SCREWS (OR 3½" TRUSSLOK SCREWS) @ 16" O/C, USE A MINIMUM OF 3 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE. SOLID 3 1/2" OR 5 1/4" BEAMS ARE ACCEPTABLE, USE 2 ROWS OF NAILS FOR 2x6 \$ 2x8
- FOR 4 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 1/2"x6" SIMPSON SDS SCREWS (OR 6 3/4" TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AND BOTTOM SCREW 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.I3I"
- NAILS @ 24" O.C. (MIN.), EACH PLY. PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND./BEARING. BLOCKING TO MATCH POST ABOVE
- FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS WITH P.A.F.'s ('HILTI' X-CF PINS OR EQUAL) @ 16" O.C. STAGGERED, OR I/2" DIA. BOLTS @ 48" O.C. STAGGERED.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BG52-2/4 CAP & ABM44Z BASE, U.N.O.

FLOOR FRAMING

- -JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED 1 /480 LIVE LOAD DEELECTION CRITERIA (EXCLUDES MARBLE FLOORS - CONTACT M&K FOR MARBLE FLOOR DESIGNS)
- AT I-JOIST FLOORS, PROVIDE I I/8" MIN, OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR' 24" O.C., EXPOSURE I (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W GLUE AND
- 2 1" x 0 131" NAIL S @ 6"04 @ PANEL EDGES & @ 12"04 FIELD
- 2 3" × 0 120" NAILS @ 4" OC @ PANEL EDGES & @ 8" OC FIELD
- 2 3" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. IN FIELD. #6 x 2" MIN. SCREMS @ 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 H2.5T CLIP (OR APPROVED EQUAL.) © ALL BEARING POINTS. PROVIDE (2) H2.5T CLIPS AT 2-PLY GIRDER TRUSSES, (3) H2.5T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS.
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.
- ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI 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 @ 19.2" O.C. MAX. (FLOOR TRUSSES)
- ROOF SHEATHING SHALL BE 1/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS
- w/ 2 1 x 0.131 NAILS @ 6 0c. @ PANEL EDGES & @ 12 0.C. FIELD.
- w/ 2 🐉 x 0.120" NAILS 🙍 4"o.c. 🙍 PANEL EDGES 🕻 🗖 8" O.C. FIELD.
- W/ 2 🖁 X O.II3" NAILS @ 3"O.C. @ PANEL EDGES \$ @ 6" O.C. FIELD.

HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION
► HD-I	SIMPSON HTT4 HOLD-DOWN *
HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.) (PRE-BENT MSTC66 ALT. WHEN SPECIFIED)
→ HD-3	SIMPSON STHD14/14RJ HOLD-DOWN

ALTERNATIVE TO SSTB24 ANCHOR BOLT SPECIFICATION: UTILIZE SIMPSON "SET" EPOXY SYSTEM TO FASTEN 3/8 DIA. THREADED ROD INTO CONCRETE FOUNDATION. PROVIDE 12" MIN. EMBEDMENT INTO CONCRETE. NSTALL PER MANUF. RECOMMENDATIONS. DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF FOUNDATION

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.

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

- A. ROOF TRUSSES: 1/4" DEAD LOAD
- FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS: I/A" DEAD LOAD
- FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO FLOOR FRAMING BY OTHERS: LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAL LOAD. (NOT DIFFERENTIAL DEFLECTION)

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:) MPH WIND IN 2018 NCSBC: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 R301.13 OF THE 2018 NCSBC:RC, OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC. IF THE PARAMETERS OF SECTION R60212 COMPLY ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST

THE CODE REQUIRED LATERAL FORCES.

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

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 % "XO.II3" NAILS ● 6" O.C. AT EDGES & ● 12" O.C. IN THE PANEL FIELD. TYP, U.N.C
- 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 (1/6" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C IN FIELD.

BLOCKED PANEL EDGES

AT DESIGNATED AREAS - FASTEN SHEATHING w/ 2 %" x 0.113" NAILS @ 6" O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR 1 %" 16 GA STAPLES (%" 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 FDGES & FDGE FASTENING

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.

- 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 SHEARWAL OR 3" O.C. OSB SHEARWALL INDICATES HOLDOWN BELOW

VENEER LINTEL SCHEDULE

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

LL SUPPORT 2 %" - 3 ½" VENEER W 40 per MAXIMUM MEIGHT. SHALL HAVE 4" MIN. REARING

7 GUEEN VENEER USE L4x34/4". 2R 31/2" VENEER ONLY. SEE PLAN FOR VENEER SUPPORT IF VENEER < 31/2" THICK

LEGEND

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

NON-BEARING HEADER SCHEDULE

2x4 NON-BEARING PARTITION WALL	2x6 NON-BEARING PARTITION WALL
(I)2x4 FLAT	(I)2x6 FLAT
(2)2x4	(3)2x4
(2)2x6	(3)2x6
	PARTITION WALL (1)2x4 FLAT (2)2x4

NOTES:

ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS SPACED 9 24" O.C. (MAX.)

ENGINEERED BEAM MATERIAL SCHEDULE

BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION	
001	(2)13/4"×18" - H	N/A	N/A	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 \odot δ " 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.

H CAR SEESSIO

ERNH



1&K project numbe 126-2207

rawn by: JAI sue date: 07-09-2

REVISIONS initial:



RE Ô \sim EIL AT NI MILLHAV INC

LOT

MULHERN+KULI
RESIDENTIAL STRUCTURAL ENGINEERIN

Y

M&K project number: 126-2207

drawn by: JAC issue date: 07-09-24

initial:

CREEK **OUNDATION PLANS**

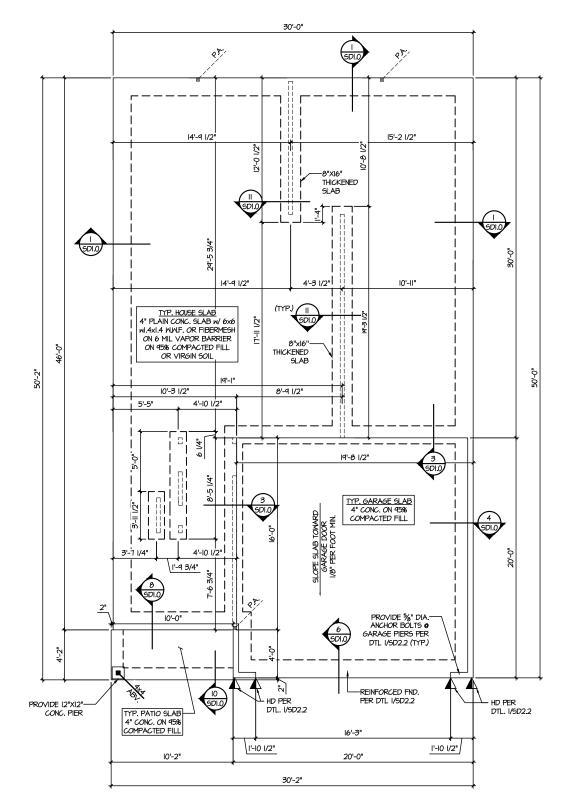
FARM AT NEIL'S LOT 76 - MILLHAVEN 2 RALEIGH, NC

S1.0

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.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES



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

MUCHERN+KULI
RESIDENTIAL STRUCTURAL ENGINEERIN

Y

M&K project number 126-2207

frawn by: issue date: 07-09-24

> REVISIONS: initial:

CREEK

1 AT NEIL'S (
- MILLHAVEN 2
- N. N.C.

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

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

ENGINEERED BEAM MATERIAL SCHEDULE BEAM NUMBER LVL OPTION STEEL OPTION PSL OPTION LSL OPTION FLITCH OPTION 001 (2)13/4"×18" - H N/A

- PLATES IN SUCCESSION W (2) 3"X0.120" NAILS 9 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 9 8" O.C.

LEGEND

- INTERIOR BEARING WALL ● □===□ BEARING WALL ABOVE
- BEAM / HEADER
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- JL METAL HANGER
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

HD PER DTL.

1/SD2.2

BLOCKED PANEL EDGES (SEE NOTES)

SHEATHE WALL PER EXT. WALL

HD PER DTL. 1/5D2.2

2ND FLOOR FRAMING PLAN

- (3)2x12 CONT. FULL WIDTH OF PORTAL FRAME

PORTAL FRAME

(SEE DETAIL I/SD2.2)

-STRAPPING PER DTL 3+4/5D2.I

END JOIST

<u>OPEN</u>

2X6 SPF#2 BALLOON FRAMED

WALL **©** 16" O.C. BLOCKED PANEL EDGES

(SEE NOTES)

ROOF TRUSSES

9 24" O.C.

2X6 @ 16" O.C.-FLUSH BOT.

• PLANT LEDGE

HUC2IO-2TF

HANGER

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

PPB44-6Z & PPBF44 POST

BASES ARE ACCEPTABLE ALTERNATIVES TO

ABW44Z POST BASE

(2)2x6

(2)2x6

4* TJI 2106 OR BCI 5000 I-JOE • 19,2" O.C. (2-5PAN CONT.)

- BEAM NOTATION:

 "F" INDICATES FLUSH BEAM

 "F" INDICATES FLUSH BOTOP BEAM

 "F" INDICATES FLUSH BOTTOM BEAM

 "B" INDICATES FLUSH BOTTOM BEAM

 "D" INDICATES DROPPED DEAM

 "H" INDICATES DROPPED DENING HEADER
 REFER TO DETAIL D'SO20 FOR TYPICAL FLITCH BEAM CONNECTIONS
 REFER TO DETAIL D'SO20 FOR TYPICAL STEEL BEAM CONNECTIONS
 FOR FLUSH TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN
 PLATES IN SICKCESSION W (2) 3"NOJE" NAILS @ 9" O.C.

LOT 76 - N RALEIGH,

ARM

MUCHERN+KULP

RESIDENTIAL STRUCTURAL ENGINEERING Y

M&K project number: 126-2207

drawn by: issue date: 07-09-24

initial:

FARM AT NEIL'S CREEK Lot 76 - Millhaven 2 Raleigh, nc

ROOF FRAMING P

LEGEND

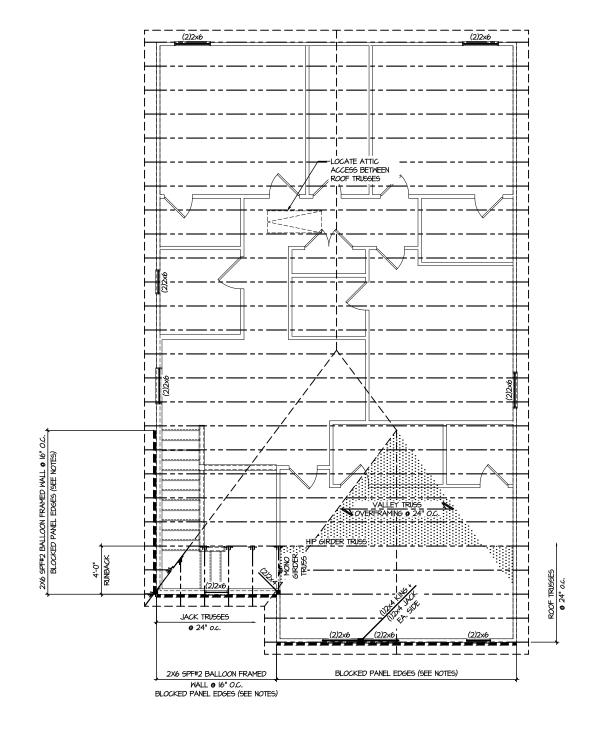
- INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- ---- BEAM / HEADER
- = = INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING

JL METAL HANGER

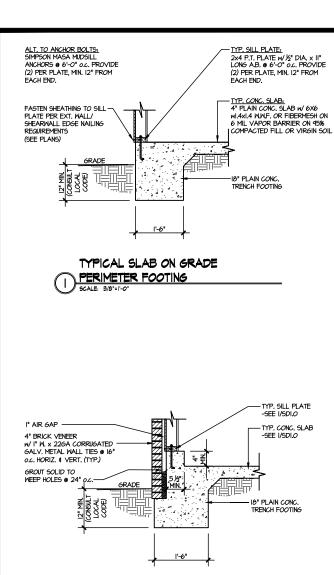
* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

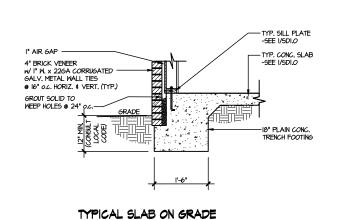
INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES



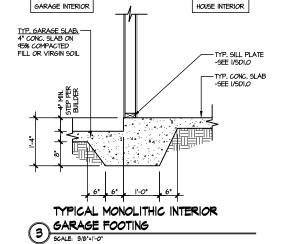
ROOF FRAMING PLAN

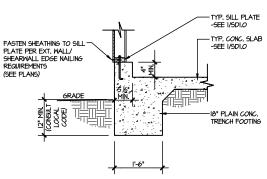




PERIMETER FOOTING

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





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M&K project number 126-2207

ssue date: 07-09-24

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initial:

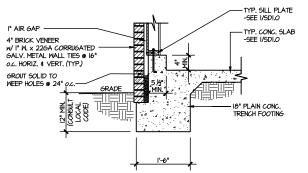
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REVISIONS

TYPICAL SLAB ON GRADE GARAGE

PERIMETER FOOTING

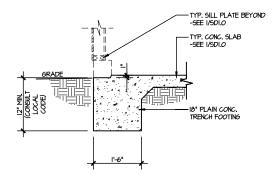
SCALE: 3/0"=1"-0"

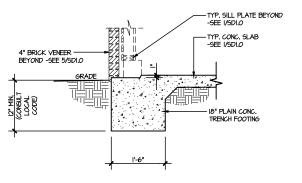


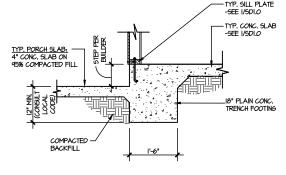
TYPICAL SLAB ON GRADE GARAGE

5 PERIMETER FOOTING

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



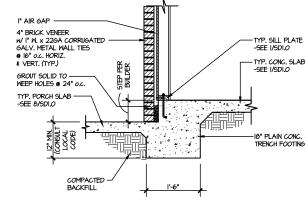


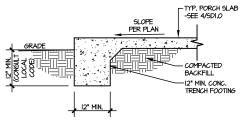


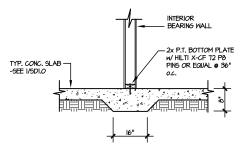
TYPICAL SLAB ON GRADE GARAGE 6 ENTRY @ PERIMETER FOOTING
SCALE: 3/8'=1'-0'

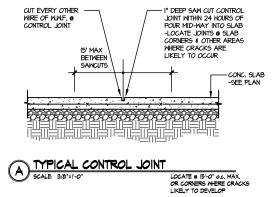
TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING

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









TYPICAL THICKENED SLAB @ NITERIOR BEARING WALL

TYPICAL FOOTING @ PORCH SLAB

LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN ALL APPLICABLE AREAS. THESE

DETAILS ARE NOT "CUT" ON THE PLANS.

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

TYPICAL SLAB ON GRADE PERIMETER 9 FOOTING @ PORCH/PATIO

SD1

ARM LOT 76 -Raleigh,

CREEK

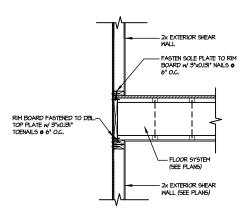
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ZEIL AT NEIL' MILHAVEN I. NC

YIL Y

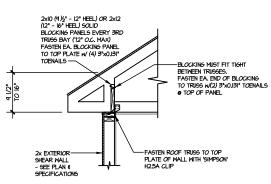
Z O

TRANSFER DETAIL @ ROOF Al TRANSFER HEEL HEIGHT LESS THAN 9½" NO BLOCKING REQ'D

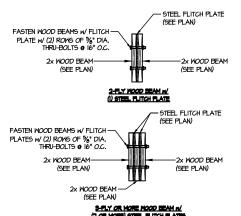


TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL

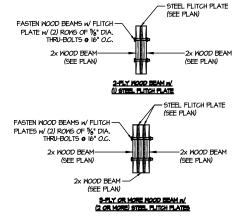
SCALE: 3/8/11-0*

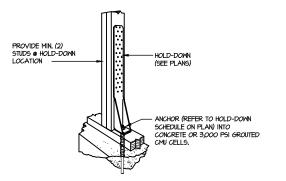


TYPICAL SHEAR TRANSFER DETAIL @ ROOF
SCALE: 3/8"=1"-0" HEEL HEIGHT BETWEEN 9 /9 HEEL HEIGHT BETWEEN 9½" - 16" BLOCKING REQ'D

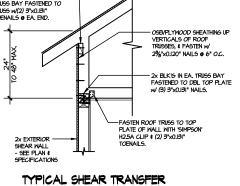


TYPICAL FLITCH BEAM CONNECTION DETAIL SCALE 944-11-0*



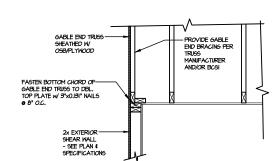


TYPICAL HOLD DOWN INSTALLATION
SCALE, NT.S.



DETAIL @ RAISED HEEL TRUSS

SCALE: 3/8':1'-0' HEEL HEIGHT UP TO 48" MAX



TYPICAL GABLE END DETAIL

SCALE: 3/8°=1-0°

MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINERING

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M&K project number 126-2207

drawn by: issue date: 07-09-24

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initial:

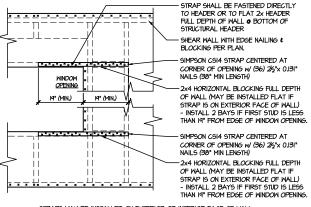
CREEK DETAILS I AT NEIL'S (MILHAVEN 2) 1, NC LOT 76 - N RALEIGH, FARM

SD2.0

LETTERED DETAILS ARE TYPICAL FOR ALL APPLICABLE AREAS. THESE DETAILS ARE NOT "CUT" ON THE PLANS.

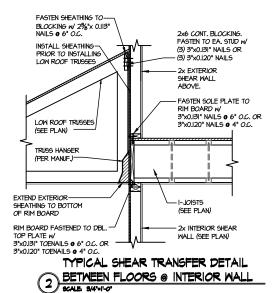
NUMBERED DETAILS ARE PLAN SPECIFIC AND ARE ONLY REQUIRED WHERE SPECIFICALLY INDICATED ("CUT") ON THE PLANS.

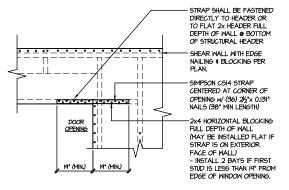
SHEAR TRANSFER DETAIL @ INTERIOR SHEARMALL BELOW SCALE 8/4'-1'-0' PARAL



- STRAPS MAY BE INSTALLED ON EXTERIOR OR INTERIOR FACE OF WALL WHEN INSTALLED ON THE EXTERIOR FACE OF THE WALL, STRAPS TO BE METALLED ON EXTERIOR FACE OF SHITE, I MAY BE MOVED IS FROM EDSE TO ALLOW FOR WINDOW NAILING REQUIRED ONLY • OPENINGS WHERE SPECIFIED ON PLAN

TYPICAL EXT. WALL & INT. 3 SHEARWALL OPENING ELEVATION





- STRAPS MAY BE INSTALLED ON EXTERIOR OR INTERIOR FACE OF WALL WHEN INSTALLED ON THE EXTERIOR FACE OF THE WALL, STRAPS TO BE
- INSTALLED ON EXTERIOR FACE OF SHTG. & MAY BE MOVED 1/2" FROM EDGE TO ALLOW FOR DOOR NAILING REQUIRED ONLY @ OPENINGS WHERE SPECIFIED ON PLAN

TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION SCALE, NTB

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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OR OFFERE PROFESSIO,

7/11/24

MULHERN+KUL RESIDENTIAL STRUCTURAL ENGINERI STRUCTURAL STRUCTURAL ENGINERI \$755556000 - Ambrilder

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M&K project number: 126-2207

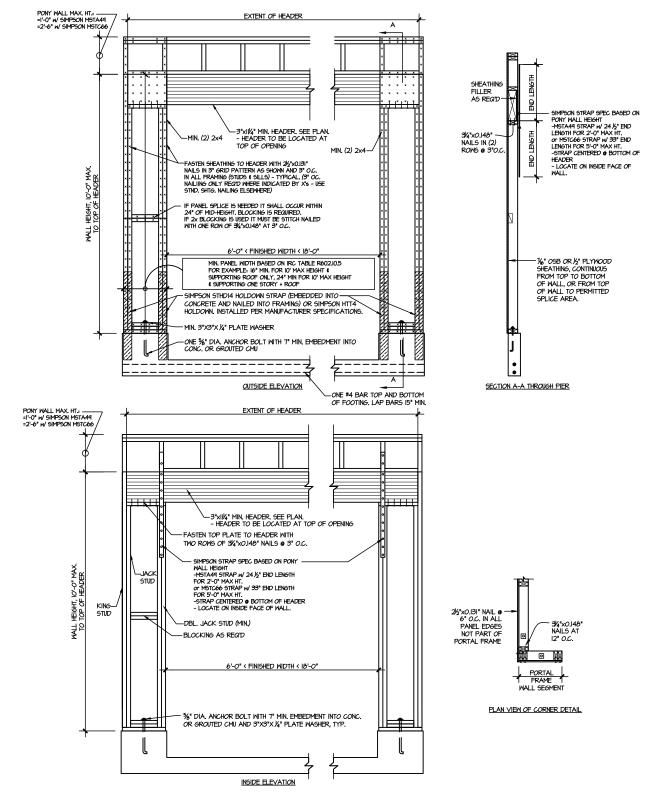
drawn by: JAC issue date: 07-09-24

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initial:

REE \Box I AT NEIL'S (MILHAVEN 2) 1, NC FARM LOT 76 - NRALEIGH, 1

SD2.1



GARAGE PORTAL FRAME BRACING ELEVATION WITH HOLD-DOWNS SCALE: N.T.S. BOTH SIDES OF GARAGE DO

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

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

NUMBERED DETAILS ARE PLAN

SD2.2

CREEK

FARM AT NEIL'S LOT 76 - MILLHAVEN 2 RALEIGH, NC

"H CAR

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RESIDENTIAL STRUCTURAL ENGINEERING

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M&K project number: 126-2207

issue date: 07-09-24

JAC

initial:

drawn by:

REVISIONS:

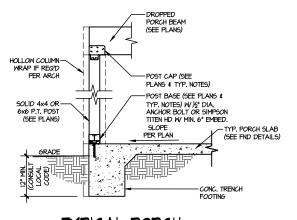
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M&K project number: 126-2207

issue date: 07-09-24

JAC

drawn by:



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

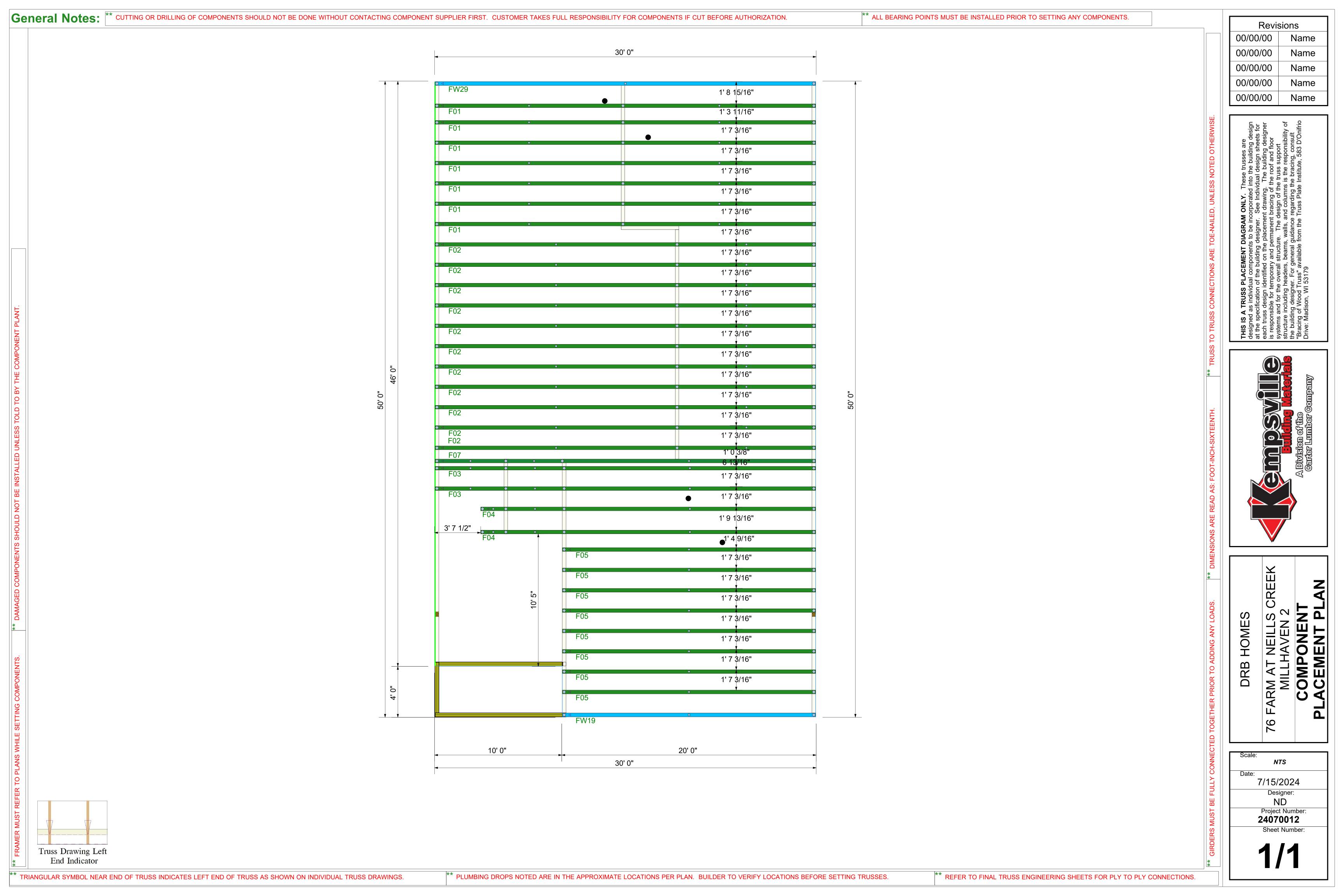
> ALL APPLICABLE AREAS. THESE DETAILS ARE NOT "CUT" ON THE PLANS.

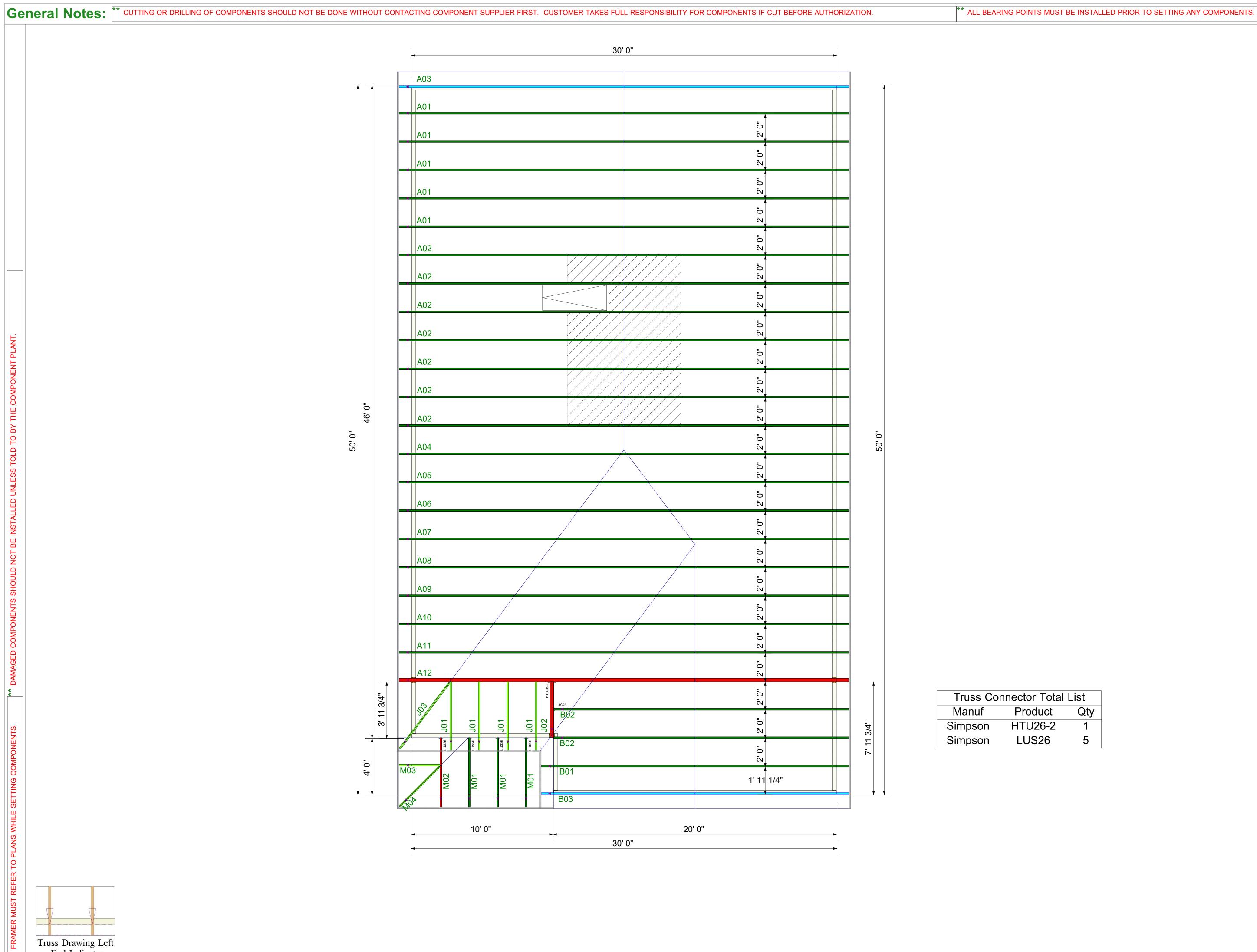
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FRAMING DETAILS

FARM AT NEIL'S CREEK Lot 76 - Millhaven 2 Raleigh, nc

SD3.0





Truss Connector Total List Qty Manuf **Product** HTU26-2 Simpson Simpson LUS26 5

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

Name



7/15/2024 Designer: ND Project Number: **24070012** Sheet Number:

End Indicator TRIANGULAR SYMBOL NEAR END OF TRUSS INDICATES LEFT END OF TRUSS AS SHOWN ON INDIVIDUAL TRUSS DRAWINGS.

Truss Drawing Left

** PLUMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN. BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES.