# DEVON-RALE

RALEIGH - LOT 00.0044 THE FARM AT NEILL'S CREEK

(MODEL# 1615)

**ELEVATION 4 - GR** 

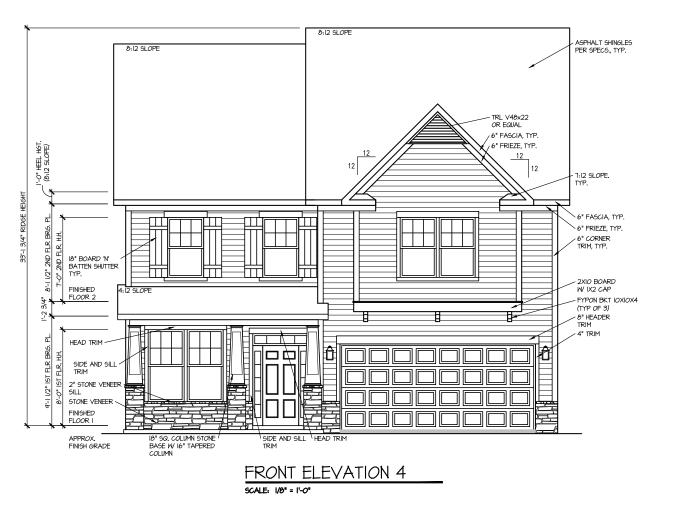
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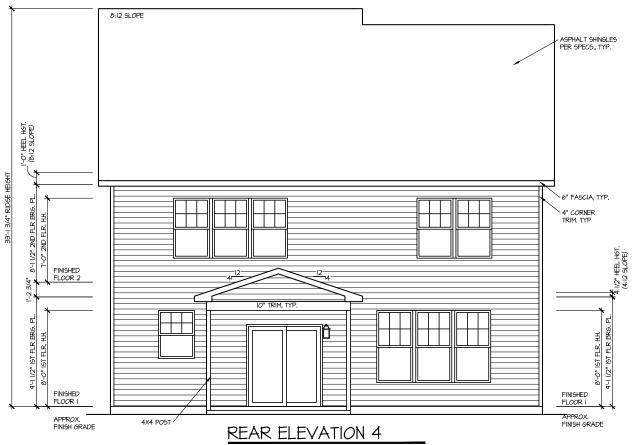


-					
	ADEA CALCULATIONS				
	<u>AREA CALCULATIONS</u>			COVERED /	
	ELEVATION 4		HEATED	UNHEATED	UNCOVERED
	FIRST FLOOR		1017 SF		01100121125
	GARAGE		1017 31	380 SF	
	FRONT PORCH - ELEVATION 4			107 SF	
	FRONT PORCH - ELEVATION 4			107 SF	
	SECOND FLOOR		1366 SF		
	SECOND FLOOR		1366 SF		
	0.000				
	OPTIONS				
	COVERED PORCH			120 SF	
1					
		TOTAL	2383 SF	607 SF	
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# 516 Winding Creek Drive

LOT	SPECIFIC	
1	LOT 00.0044	THE FARM AT NEILL'S CREEK
		DEVON REV. RALE 3 ELEVATION 4
2	ADDRESS	516 WINDING CREEK DR LILLINGTON, NC 27546
<u> </u>		
	1	





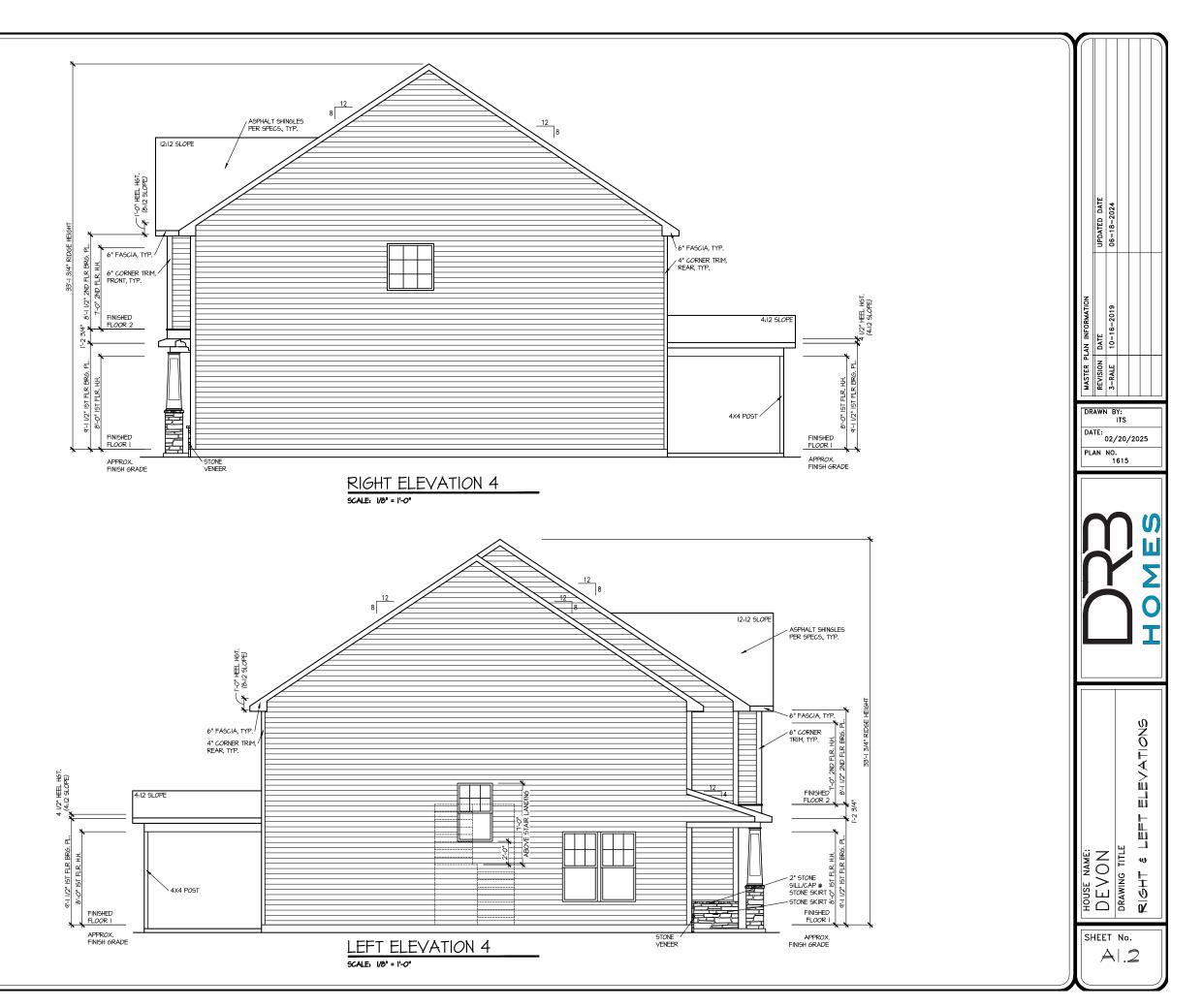
DRAWN BY:

DATE: 02/20/2025 PLAN NO. 1615



0 NO ᇳ HOUSE NAME:
DEVON
DRAWING TITLE TNONT TNO

SHEET No. A|.|



ROOF VENTILATION CALCULATIONS:

ROOF AREA = 1440 50. FT.

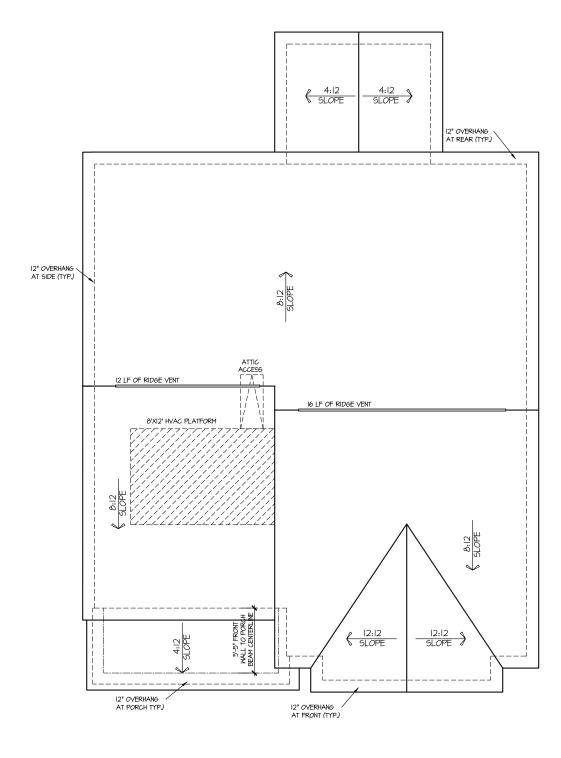
OVERALL REQUIRED VENTILATION:

1 TO 150 = 146 50. FT.

1 TO 300 = 4.6 50. FT.

50-80% IN TOP THIRD = 2.4-3.84 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 RDS)
51 LINEAR FIET OF SOFFIT X 5.1 5Q, IN = 2.00 5Q, FT,
UPPER VENTING: (TOP 1/3 RD).
26 LINEAR FIET OF RIDGE X IB 5Q, IN = 3.5 5Q, FT,
3.5 5Q, FT, BETWEEN 50% - 60%
(I TO 300 ALLOWED)
TOTAL ROOF VENTILATION: 5.5 5Q, FT, > 4.80 5Q, FT, (RQTD)



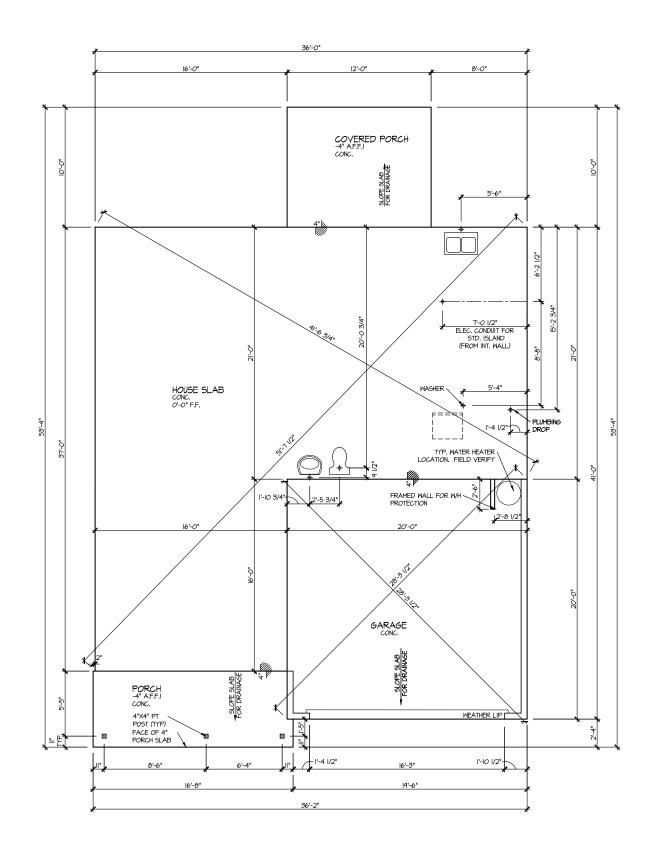
ROOF PLAN ELEV. 4

DRAWN BY: DATE: 02/20/2025 PLAN NO. 1615



HOUSE NAME:
DEVON
DRAWING TITLE
ROOF PLAN

SHEET No. AI.3



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

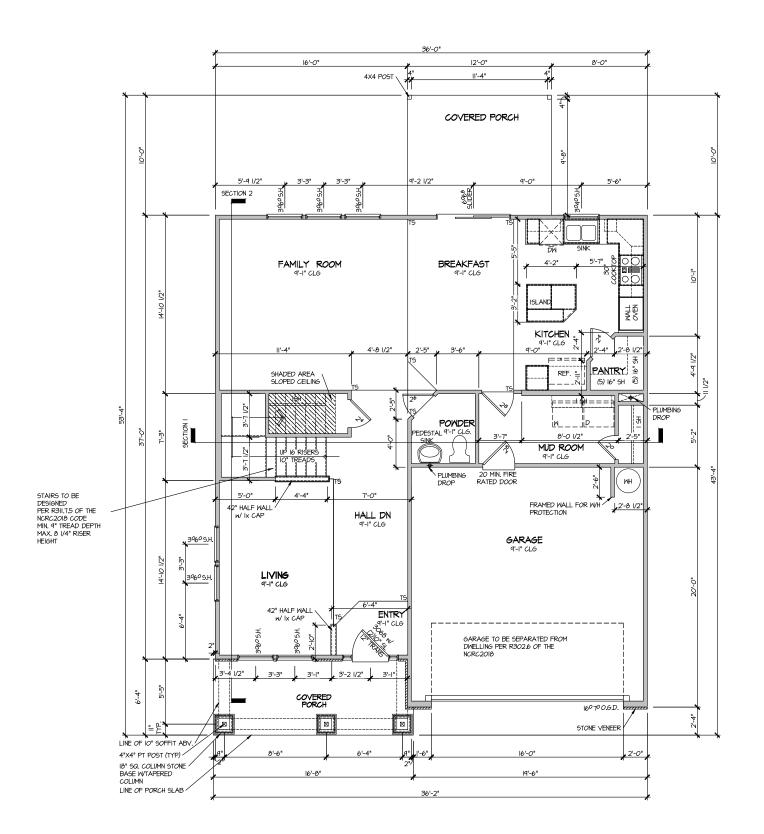
DRAWN BY:

DATE: 02/20/2025 PLAN NO. 1615



HOUSE NAME:
DEVON
DRAWING TITLE
SLAB PLAN

SHEET No. A2.1



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

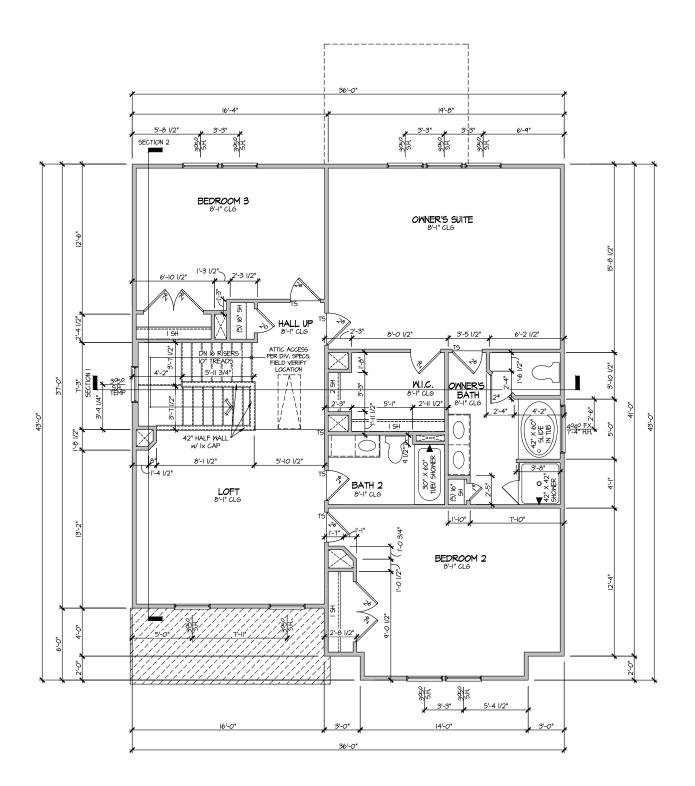
DRAWN BY: DATE: 02/20/2025

PLAN NO. 1615



HOUSE NAME:
DEVON
DRAWING TITLE
FIRST FLO

SHEET No. A3.1



ELEVATION 4 SECOND FLOOR PLAN SCALE 100" = 1"-0"

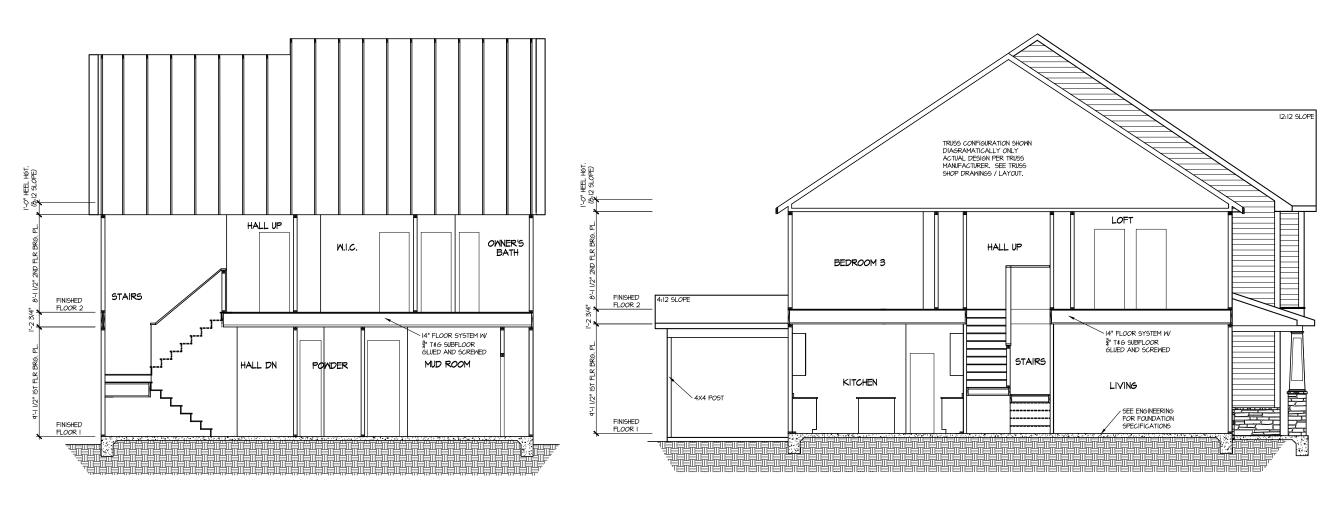
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DATE: 02/20/2025 PLAN NO. 1615



HOUSE NAME:
DEVON
DRAWING TITLE
SECOND F

SHEET No. A3.2



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

SECTION I

HOUSE NAME:
DEVON
DRAWING TITLE
BUILDING 9

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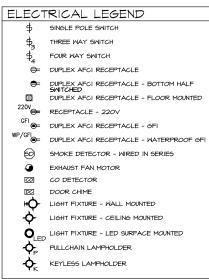
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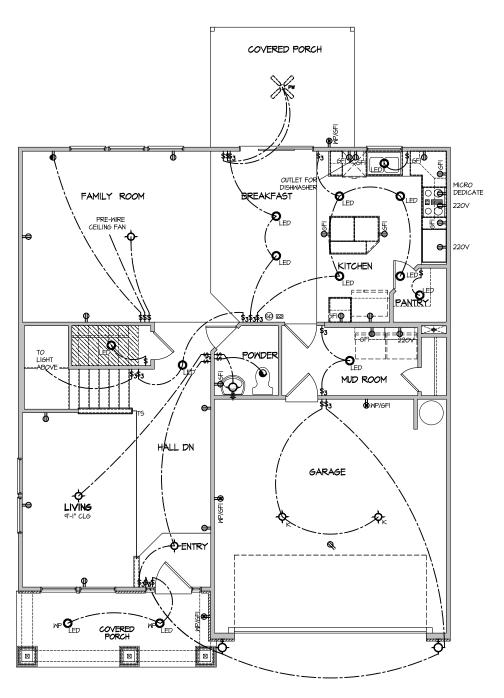
DATE: 02/20/2025

PLAN NO. 1615

SHEET No. **A4**.1



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



ELECTRICAL PLAN FIRST FLOOR - ELEV. 4 SCALE: 1/10"

MASTER PLAN INFORMATION

REVISION DATE

3-RALE 10-16-2019 06-18-2024

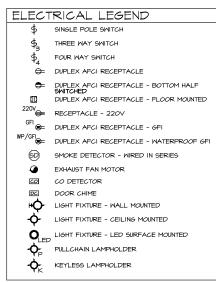
DRAWN BY: ITS DATE: 02/20/2025 PLAN NO. 1615



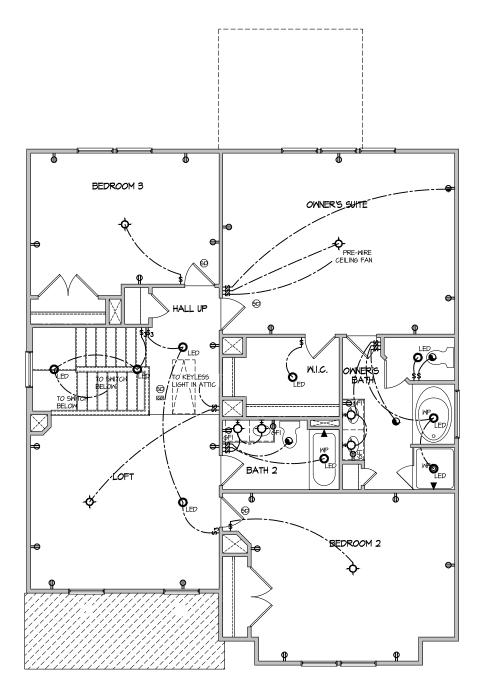
HOUSE NAME:
DEVON
DRAWING TITLE
FIRST FLOOR ELECTRICAL

SHEET No.

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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.



| MASTER PLAN INFORMATION | PATE | 10-16-2019 | O6-18-2024 | |

DRAWN BY:

ITS

DATE:

02/20/2025

PLAN NO.

1615



FLOOR ELECTRICAL

HOUSE NAME:

DEVON

DRAWING TITLE

SECOND F

SHEET No.

**≣**1.2

### **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 (9 ½" FOR 10" THICK WALL).
- BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYPE CLASSIFICATIONS (SC, ML-CL, OR CL).
- BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY ADEQUATE TEMPORARY BRACING OR INSTALL 1st FLOOR DECK.
- PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN CONCRETE BSMT. FND. WALL WITH 2" CLEAR. 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.O.
- LARGER OPENINGS SHALL BE PER PLAN.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT
- ALL FOOTINGS SHALL BEAR AT LEAST 12" BELOW FINISH GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP
- JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-O" OC (MAXIMUM) JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS
- POSSIBLE (I.I RATIO) WITH A MAXIMIM OF I.I.S 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.I.
- CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORCEMENT (OR EQUAL) - 9 GA. MINIMUM @ 16" O.C.
- PROVIDE 2x8 x 16" LONG P.T. PLATE ON TOP OF ALL 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 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. LOAD DURATION FACTOR = 1.25

FLOOR LIVE = 40 PSF (30 PSF @ SI FEPING AREAS) DEAD = 10 PSF (1-JOISTS & SOLID SAWN)

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)

IO PSF T.C., 5 PSF B.C. (TRUSSES)

# 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=310 psi; E=1.55x10^6 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" NAILS @ 6"0.c. @ PANEL EDGES & @ 12"0.c. FIELD. THE DESIGN WAS COMPLETED PER 2015 IBC
- 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 * (%" DIA. ANCHOR)	
	► HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM UN.O.) -OR- MSTC66B3 ALTERNATE	
	<b>→</b> HD-3	SIMPSON STHDI4/STHDI4RJ	

\* IJTII 17F THE SSTB24 ANCHOR BOLT & ALL MONOSI AB & 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 HREADED ROD INTO CONCRETE FOUNDATION, PROVIDE 10" (FOR 5/8" DIA.) OR 15" (FOR 1/8" DIA.) MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF. INSTRUCTIONS. MINIMUM 16" FOOTING THICKNESS REQ'D. DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF CONCRETE.

# 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

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

- ROOF TRUSSES: 1/4" DEAD LOAD
- FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS: 1/8" DEAD LOAD
- G. FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAD 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.

(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 EDGES & EDGE 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"x¼"
	20 FT. MAX	L5"x3½"x%"
	3 FT. MAX	L4"x4"x¼" *
8'-O"	I2 FT. MAX	L5"x3½"x%"
	I6 FT. MAX	L6"x31½"x3%"
9'-6"	I2 FT. MAX	L6"x3½"x%"
16'-0"	2 FT. MAX	L7"x4"x½" **
10-0	3 FT. MAX	L8"x4"x½" **

# LLIMIELS: SHALL SIPPORT 2 ½" - 3 ½" VENEER W 40 PAF MAXIMUM MEIGHT. 16' SHALL HAVE 4" MIN. BEARING 16' SHALL HAVE 5" MIN. BEARING 16' SHALL NOT DE FASTENED BACK TO HEADER. 16' SHALL DE FASTENED BACK TO MODD HEADER. IN WALL @48'O.C.

- w/ ½" DIA, x 3 ½" LONG LAG SCREWS IN 2" LONG VERTICALLY SLOTTED HOLES. IAX, VENEER HT. APPLIES TO ANY PORTION OF BRICK OVER THE
- OPENING.
  VILLINITELS SHALL BE LONG LEG VERTICAL.
  HEN SUPPORTING VENEER (3" HIDE THE EXTERIOR TOE OF THE
  HORIZONTAL LEG MAY BE CUT IN THE FIELD TO BE 3 %," HIDE OVER
  THE BEARING LENGTH CALLY, THIS IS TO ALLOW FOR MORTAR JOINT
- e structural plans for any lintel condition not

# 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

SPAN 2x4 NON-BEARING PARTITION WALL		2x6 NON-BEARING PARTITION WALL	
UP TO 3'-0"	(I)2x4 FLAT	(I)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" OC (MAX)

# ENGINEERED BEAM MATERIAL SCHEDULE

BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(3)1¾"×16" - H	5¼"×16" - H	N/A	(3)2xl2 + (2) ½"xll以" STEEL FLITCH PLATES - H	N/A
OOIA	(3)1¾"×14" - H	5¼"×14" - H	(3)1¾"×16" - H	(3)2x12 + (2) %"xIK" STEEL FLITCH PLATES - H	N/A
002	(2)134"x94" - H	3½"x9¼" - H	(2)134"×91/2" - H	(2)2xi0 + (i) ¼"xq¼" 5TEEL FLITCH PLATES - H	W6×10 - H
003	(2)134"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xl2 + (1) %"xl以" STEEL FLITCH PLATES - FB	WI2xI4 - F
004	(2)134"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xl2 + (1) %"xll"," STEEL FLITCH PLATES - FB	WI2xI4 - F
005	(2)134"x914" - H	3½"x9¼" - H	(2)1¾"×9½" - H	(2)2x10 + (1) ¼"x9¼" STEEL FLITCH PLATES - H	W8×10 - H
006	(2)134"x94" - F	3½"x9¼" - F	(3)1¾"×9¼" - F	(2)2x10 + (1) ¼"x9¼" STEEL FLITCH PLATES - F	N/A
001	(2)134"x94" - F	3½"x9¼" - F	(3)1¾"×9¼" - F	(2)2x10 + (1) ¼"x9¼" STEEL FLITCH PLATES - F	N/A
000	(2)134"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xl2 + (1) %"xll以" STEEL FLITCH PLATES - FB	WI2xI4 - F
004	(2)1¾"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xl2 + (1) %"xll以" STEEL FLITCH PLATES - FB	WI2xI4 - F
010	(2)13/4"×11/4" - H	3½"xI¼" - H	(2)1¾"x11¾" - H	(2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATES - H	N/A

- - BEAM NOTATION:
     "F" INDICATES FLUSH BEAM
  - "FT" INDICATES FLUSH TOP BEAM - "FB" INDICATES FLUSH BOTTOM BEAM
  - "D" INDICATES DROPPED BEAM
  - REFER TO DETAIL DISD2.0 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.

H CAR SESSIO

**S**ENSINE ERNH



1&K project numbe 126-22076

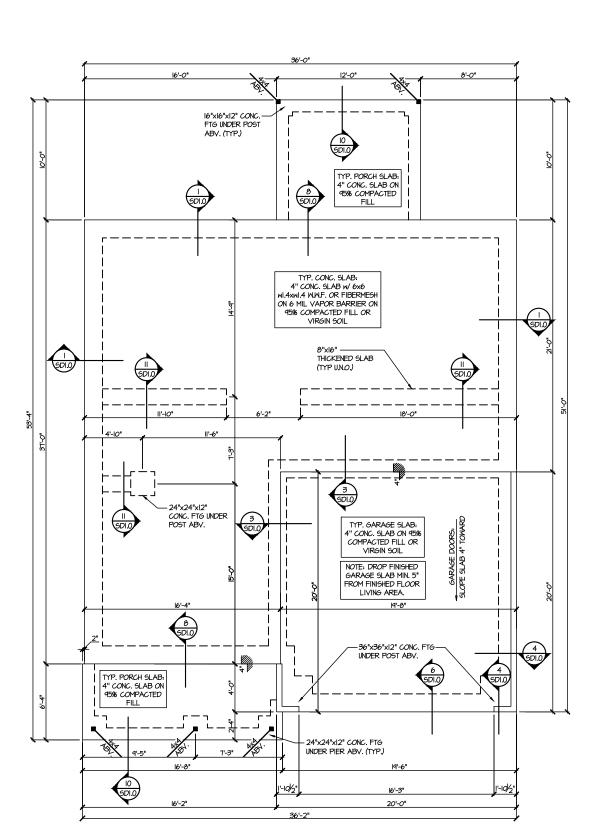
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REVISIONS initial:



 $\simeq$  $\bigcap_{i=1}^{n}$  $\delta$ NEIL AT

DEV ARM LOJ 



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

3/4/25 H CAR

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING Y

M&K project number: 126-22076

JTR drawn by: issue date: 02-27-2

REVISIONS:

initial:

CREEK FARM AT NEIL'S (LOT 44 - DEVON 4
RALEIGH, NC OUNDATION

# 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

# Y M&K project number

126-22076

ssue date: 02-27-2

CREEK

NEIL'S

FARM AT N LOT 44 - DEVON 4 RALEIGH, NC

rawn by:

REVISIONS:

**JTR** 

initial:

LEGEND

- INTERIOR BEARING WALL
- □==== BEARING WALL ABOVE
- ---- BEAM / HEADER
- ■ ■ INDICATES SHEAR WALL & EXTENT
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- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

# ENGINEERED BEAM MATERIAL SCHEDULE

- BEAM NOTATION:
   "F" INDICATES FLUSH BEAM
   "FT" INDICATES FLUSH TOP BEAM
   "FB" INDICATES FLUSH BOTTOM BEAM

- POR FLUGH BOTTOM BEAMS PROVIDE 2x STACKED PLATES ATOP BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION W (2) 3"x0.120" NAILS 8" O.C.

EAM MBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION	
001	(3)134"×16" - H	5¼"x16" - H	N/A	(3)2xl2 + (2) ½"xll¼" STEEL FLITCH PLATES - H	N/A	
AIOC	(3)134"×14" - H	5¼"xi4" - H	(3)13/4"×16" - H	(3)2x12 + (2) %"xIK" STEEL FLITCH PLATES - H	N/A	
002	(2)134"x94" - H	3½"×9¼" - H	(2)134"x91/2" - H	(2)2x10 + (1) ¼"x9¼" STEEL FLITCH PLATES - H	W8×10 - H	
800	(2)134"×14" - F	3½"xi4" - F	(2)13/4"×14" - F	(2)2xl2 + (1) %"xll以" STEEL FLITCH PLATES - FB	WI2xI4 - F	
004	(2)134"×14" - F	3½"xi4" - F	(2)13/4"×14" - F	(2)2xi2 + (1) %"xii以" STEEL FLITCH PLATES - FB	WI2xI4 - F	
005	(2)134"×94" - H	3½"×9¼" - H	(2)134"×91/2" - H	(2)2xI0 + (I) ¼"x9¼" STEEL FLITCH PLATES - H	W8×IO − H	
006	(2)134"×94" - F	3½"×9¼" - F	(3)134"×941" - F	(2)2x10 + (1) ¼"x9¼" STEEL FLITCH PLATES - F	N/A	
007	(2)134"x94" - F	3½"x9¼" - F	(3)134"x94" - F	(2)2x10 + (1) ¼"x9¼" STEEL FLITCH PLATES - F	N/A	
800	(2)134"×14" - F	3½"xi4" - F	(2)13/4"×14" - F	(2)2xl2 + (1) %"xll以" STEEL FLITCH PLATES - FB	WI2xI4 - F	
009	(2)134"×14" - F	3½"xi4" - F	(2)13/4"×14" - F	(2)2xl2 + (l) %"xll以" STEEL FLITCH PLATES - FB	WI2xI4 - F	
010	(2)134"×114" - H	3½"xI¼" - H	(2)134"x1136" - H	(2)2xl2 + (l)从"xll以" STEEL FLITCH PLATES - H	N/A	

- "TH" INDICATES FLUSH BOTTOM BEAM
- "D" INDICATES DROPPED BEAM
- "H" INDICATES DROPPED OPENING HEADER
REFER TO DETAIL D/SD2.0 FOR TYPICAL FILTCH BEAM CONNECTIONS
REFER TO DETAIL E/SD2.0 FOR TYPICAL STEEL BEAM CONNECTIONS
FOR FLUSH TOP BEAM'S PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN
PLATES IN SUCCESSION W (2) 3"X01.20" NAILS 9 8" O.C.

2ND FLOOR FRAMING PLAN

CAP & ABW44Z BASE

(SEE DETAIL 3/SD3.0)

\_\_I4" TJI 210 -0R- I4" BCI 5000s @ 16" 0.C.

UNDER BATH (2-SPAN CONT.)

PROVIDE 1/6" OSB OR 15/32" PLYWOOD SHT'G & FASTEN

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

BEAM COIA CONT. OVER FULL WIDTH OF PORTAL FRAME

PORTAL FRAME
PROVIDE BRACING PER DETAIL I/SD2.2

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

(1)2x4 JACK

- OVERFRAME UPPER LNDG. AS REQ'D

2x8 • Zx8 LEDGER, FASTEN TO EA.

FASTEN JOISTS EA. END W NESIMPSON LUS26

STUD W/ (3) 3"x0.120" NAILS

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

2x6 BALLOON FRAMED. STUDS @ 16" O.C. (SPF #2 OR BETTER)

4x4 P.T. POST W SIMPSON BCS2-2/4

(SEE DETAIL 3/SD3.0)

CAP & ABW44Z BASE (SEE DETAIL 3/SD3.0)

Y

M&K project number: 126-22076

JTR drawn by: issue date: 02-27-25

REVISIONS:

initial:

FARM AT NEIL'S CREEK LOT 44 - DEVON 4 RALEIGH, NC

FRAMING

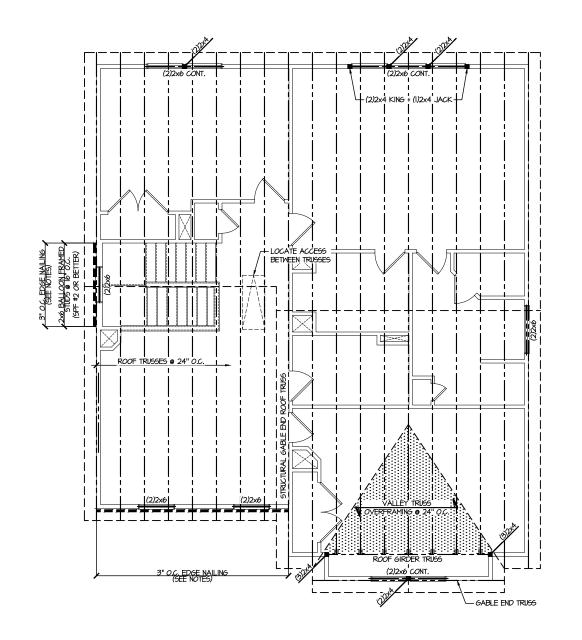
ROOF

**S3.0** 

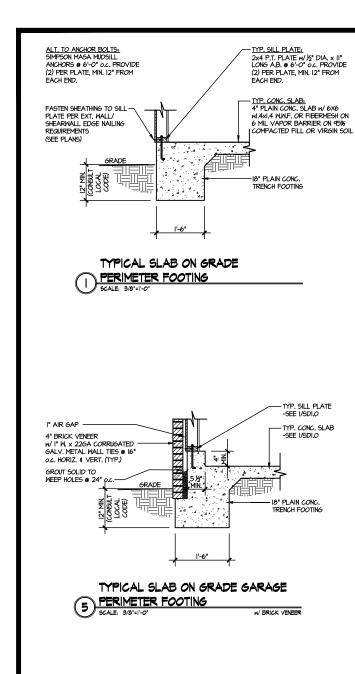
# LEGEND

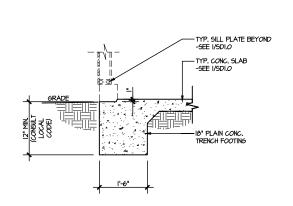
- IIIIII INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- ---- BEAM / HEADER
- = = INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- JL METAL HANGER
- \* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES









I" AIR GAP

GROUT SOLID TO WEEP HOLES @ 24

4" BRICK VENEER w/ I" W. x 22GA CORRUGATED GALV. METAL WALL TIES

@ 16" o.c. HORIZ. & VERT. (TYP.)

GRADE

TYPICAL SLAB ON GRADE

PERIMETER FOOTING

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

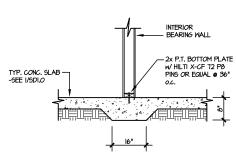
TYP, SILL PLATE -SEE I/SDI.O

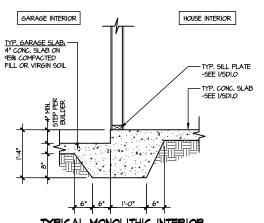
- TYP. CONC. SLAB

-18" PLAIN CONC.

-SEE I/SDI.O







TYPICAL MONOLITHIC INTERIOR 3 SCALE 2/4

TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING

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

FASTEN SHEATHING TO SILL PLATE PER EXT. WALL/ SHEARWALL EDGE NAILING REQUIREMENTS

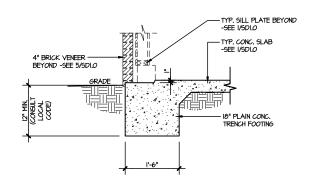
(SEE PLANS)

-SEE I/SDI.O

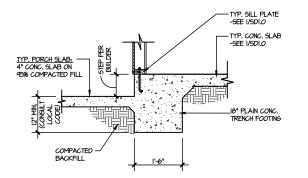
-SEE I/SDI.O

- TYP. CONC. SLAB

-18" PLAIN CONC. TRENCH FOOTING



TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING



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

TYPICAL CONTROL JOINT LOCATE @ 15'-O" o.c. MAX, OR CORNERS WHERE CRACKS LIKELY TO DEVELOP

I" DEEP SAW CUT CONTROL JOINT WITHIN 24 HOURS OF POUR MID-WAY INTO SLAB

-LOCATE JOINTS @ SLAB CORNERS & OTHER AREAS

-CONC. SLAB -SEE PLAN

WHERE CRACKS ARE

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

CUT EVERY OTHER WIRE OF W.W.F. @ CONTROL JOINT

BETWEEN

SAWJITS

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

REE  $\Box$ NEIL NO ATDEV ARM LOT 44 - D RALEIGH, 1

3/4/2

ERN+KU

M&K project number: 126-22076

ssue date: 02-27-2!

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REVISIONS

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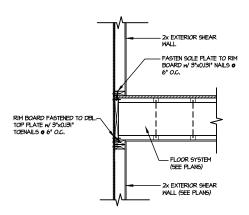
4" BRICK VENEER w/ I" W. x 22GA CORRUGATED -TYP. SILL PLATE -SEE I/SDI.O GALV, METAL WALL TIES © 16" o.c. HORIZ. \$ VERT. (TYP.) - TYP. CONC. SLAB -SEE I/SDI.O -TYP. PORCH SLAB -SEE 4/SDI.O GROUT SOLID TO ĔΞ WEEP HOLES @ 24" o.c. TYP, PORCH SLAB -SEE 8/SDI.0 COMPACTED IS" PLAIN CONC. BACKFILL 12" MIN, CONC TRENCH FOOTING BACKFILL TYPICAL THICKENED SLAB @ TYPICAL SLAB ON GRADE PERIMETER TYPICAL FOOTING @ PORCH SLAB INTERIOR BEARING WALL FOOTING @ PORCH/PATIO

# TYPICAL SHEAR

TRANSFER DETAIL @ ROOF

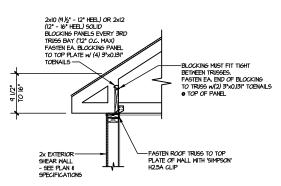
SCALE: 9/8"=1"-0" HEEL HEIGHT LESS THA

HEEL HEIGHT LESS THAN 9 ½" NO BLOCKING REQ'D



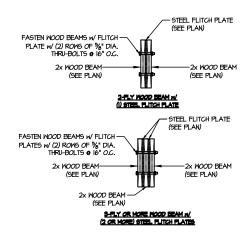
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL

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

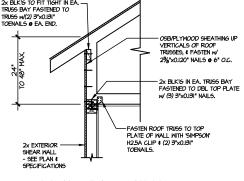


# TYPICAL SHEAR

TRANSFER DETAIL @ ROOF
SCALE: 3/8"=1"-0" HEEL HEIGHT BETWEEN 9.) HEEL HEIGHT BETWEEN 9 ½" - 16" BLOCKING REQ'D

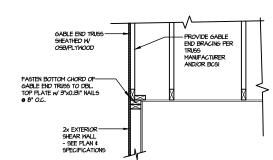


TYPICAL FLITCH BEAM CONNECTION DETAIL SCALE 944-91-0\*



TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS

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



TYPICAL GABLE END DETAIL

SCALE: 3/8°=1'-0"

Y M&K project number: 126-22076

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SEPH T. R

**JTR** drawn by: issue date: 02-27-2

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RESIDENTIAL STRUCTURAL ENGINEERING

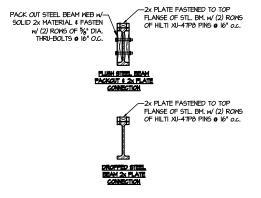
3/4/2

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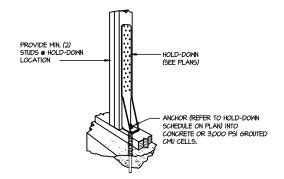
 $\simeq$  $\bigcup$ DETAIL NEIL'S Ŋ

FARM AT LOT 44 - DEVON 4
RALEIGH, NC

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

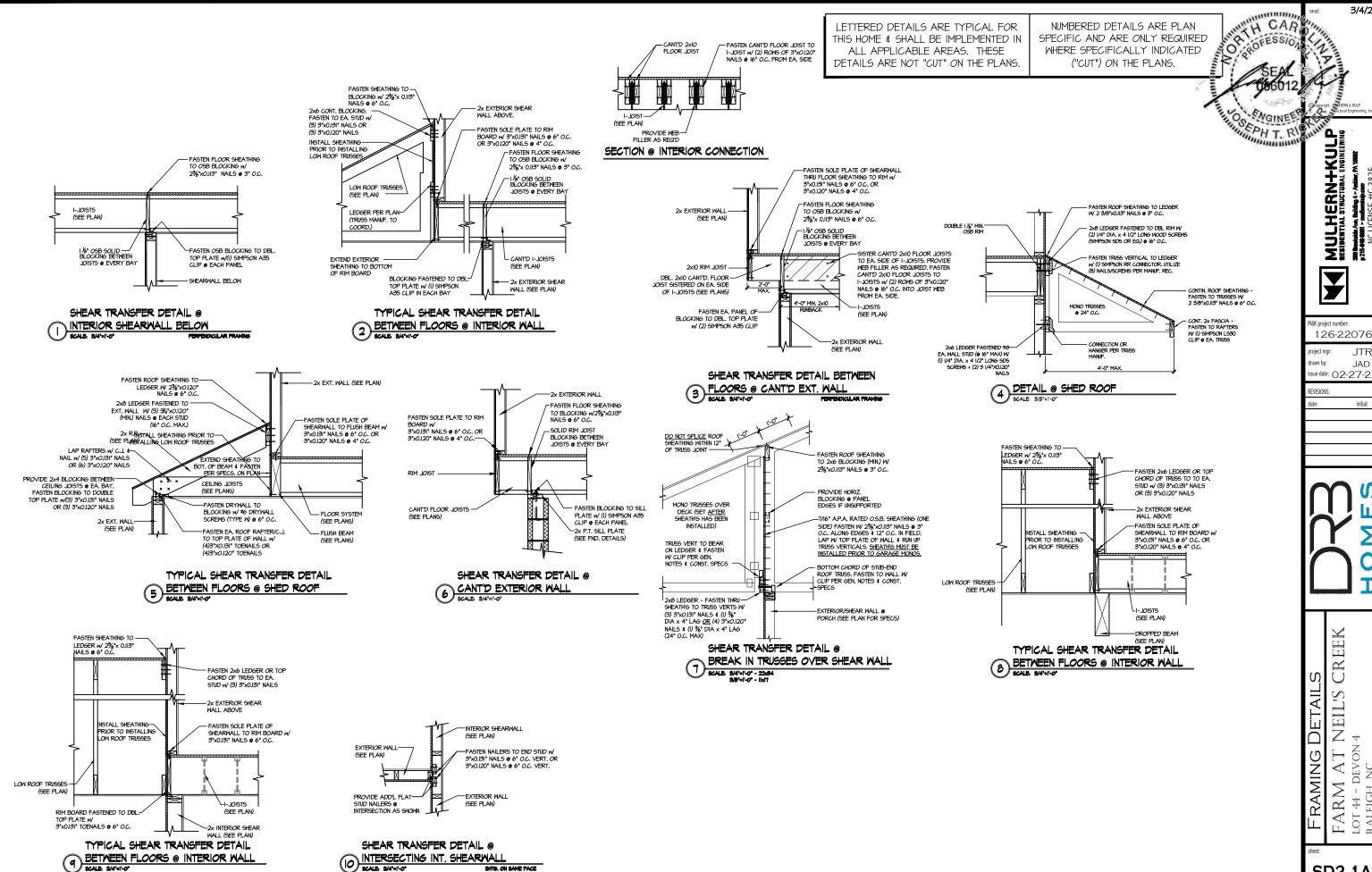


TYPICAL STEEL BEAM CONNECTION DETAIL SCALE 944-1-07



TYPICAL HOLD DOWN INSTALLATION
SCALE: N.T.S.

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



SD2.1A

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NEIL

AT

ARM

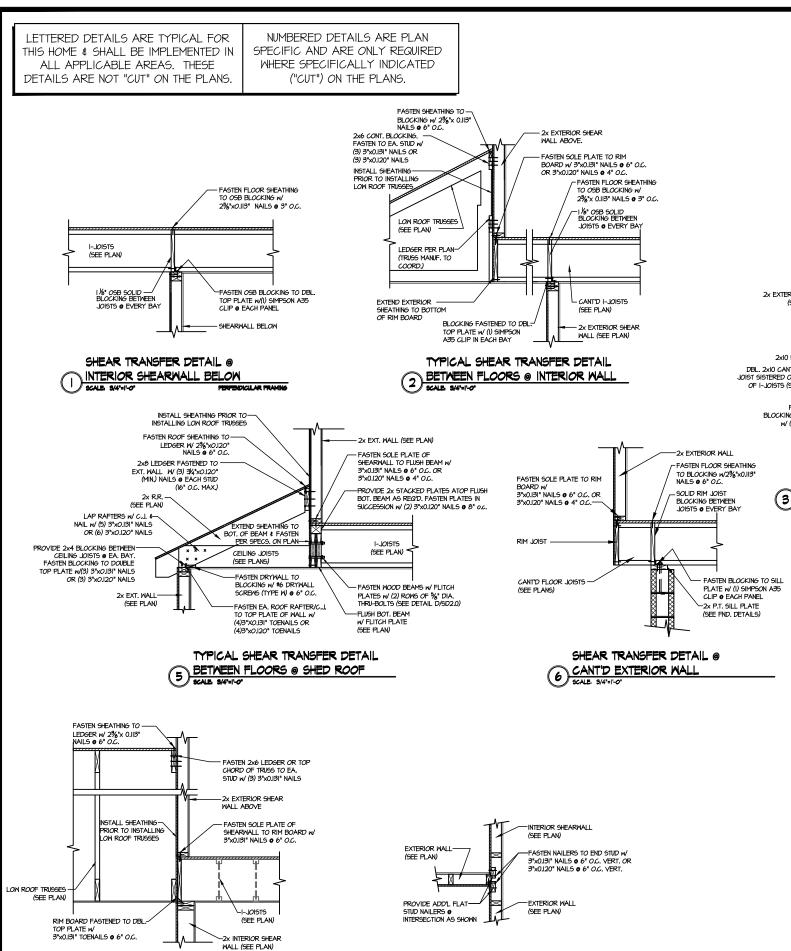
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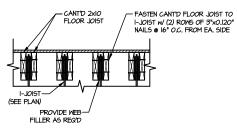


SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARWALL SCALE BAUGHTON

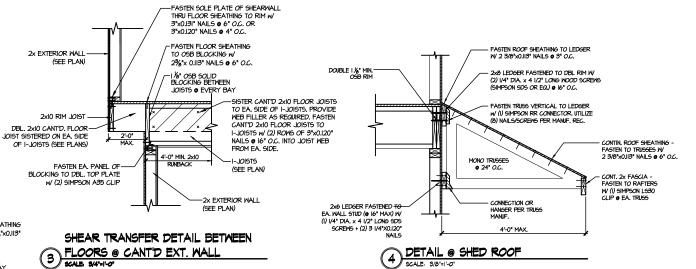
SHTG, ON SAME FACE

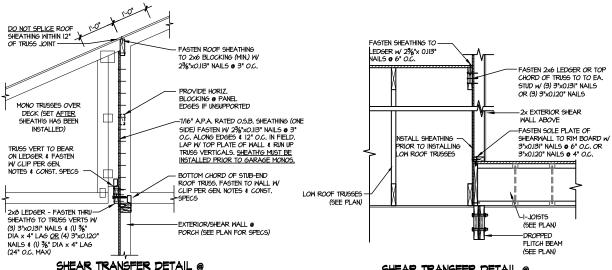
TYPICAL SHEAR TRANSFER DETAIL

BETWEEN FLOORS @ INTERIOR WALL



# SECTION @ INTERIOR CONNECTION





BREAK IN TRUSSES OVER SHEAR WALL

7 SCALE 5/4'=1'-0' - 22:64
5/6'=1'-0' - 1|x|7

SHEAR TRANSFER DETAIL @

EXTERIOR SHEARWALL ABOVE

SCALE 844-91-07

FARM AT NEIL'S CR. LOT 44 - DEVON 4
RALEIGH, NC

3/4/2

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M&K project number

rawn by:

REVISIONS

126-22076

sue date: 02-27-2

**JTR** 

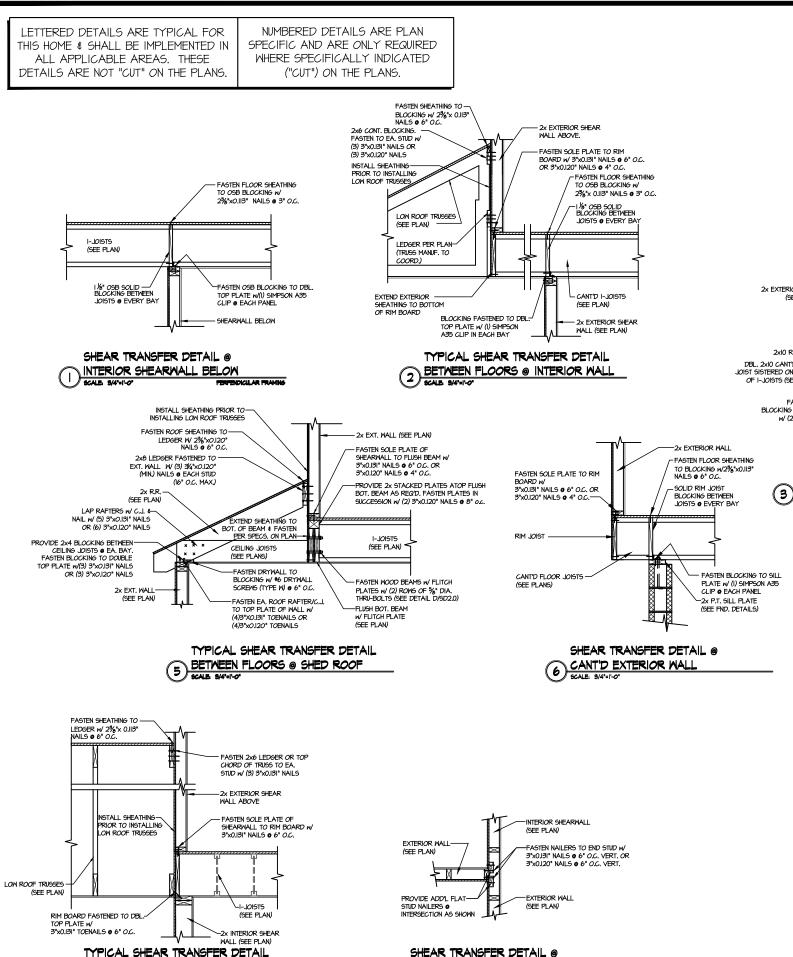
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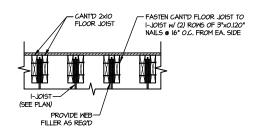
SD2.1B



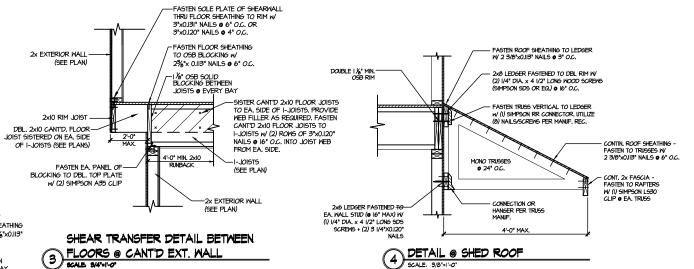
INTERSECTING INT. SHEARWAL SCALE 5/4'=1'-0' SHEARWAL

SHT6. ON SAME PACE

9 BETWEEN FLOORS @ INTERIOR WALL



# SECTION @ INTERIOR CONNECTION



3 FLOORS @ CANT'D EXT. WALL

DO NOT SPLICE ROOF SHEATHING WITHIN 12" ASTEN SHEATHING TO - Fasten Roof Sheathing To 2x6 Blocking (Min.) W LEDGER W/ 23/6"x 0.113" NAILS @ 6" O.C. 23/4"xO.II3" NAILS @ 3" O.C FASTEN 2x6 LEDGER OR TOP CHORD OF TRUSS TO TO EA. STUD w/ (3) 3"x0.131" NAILS - PROVIDE HORIZ. BLOCKING @ PANEL EDGES IF UNSUPPORTED OR (3) 3"x0.120" NAILS MONO TRUSSES OVER 2x EXTERIOR SHEAR DECK (SET <u>AFTER</u> SHEATH'G HAS BEEN -7/16" A.P.A. RATED O.S.B. SHEATHING (ONE WALL ABOVE SIDE) FASTEN W 2%\*XO.II3" NAILS @ 3"
O.C. ALONG EDGES & 12" O.C. IN FIELD.
LAP W TOP PLATE OF WALL & RUN UP
TRUSS VERTICALS. SHEATH'S MUST BE INSTALLED) FASTEN SOLE PLATE OF STALL SHEATHING SHEARWALL TO RIM BOARD W PRIOR TO INSTALLING 3"x0.131" NAILS @ 6" O.C. OR TRUSS VERT TO BEAR OW ROOF TRUSSES 3"x0.120" NAILS @ 4" O.C ON LEDGER & FASTEN INSTALLED PRIOR TO GARAGE MONOS W CLIP PER GEN. NOTES & CONST. SPECS BOTTOM CHORD OF STUB-END ROOF TRUSS. FASTEN TO WALL W CIIP PER GEN. NOTES & CONST. (SEE PLAN) 2x8 LEDGER - FASTEN THRU LI-, IDISTS SHEATH'G TO TRUSS VERTS W -FXTFRIOR/SHEAR WALL & (3) 3"x0.131" NAILS & (1) 3%" DIA x 4" LAG OR (4) 3"x0.120" -DROPPED FLITCH BEAM NAILS & (I) 3/8" DIA x 4" LAG (24" O.C. MAX) (SEE PLAN)

SHEAR TRANSFER DETAIL @ BREAK IN TRUSSES OVER SHEAR WALL SCALE: 8/4"=1"-0" - 22:64 8/8"=1"-0" - 11x17

SHEAR TRANSFER DETAIL @ (3) EXTERIOR SHEARWALL ABOVE ERN+KUI

3/4/2

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M&K project number 126-22076 **JTR** 

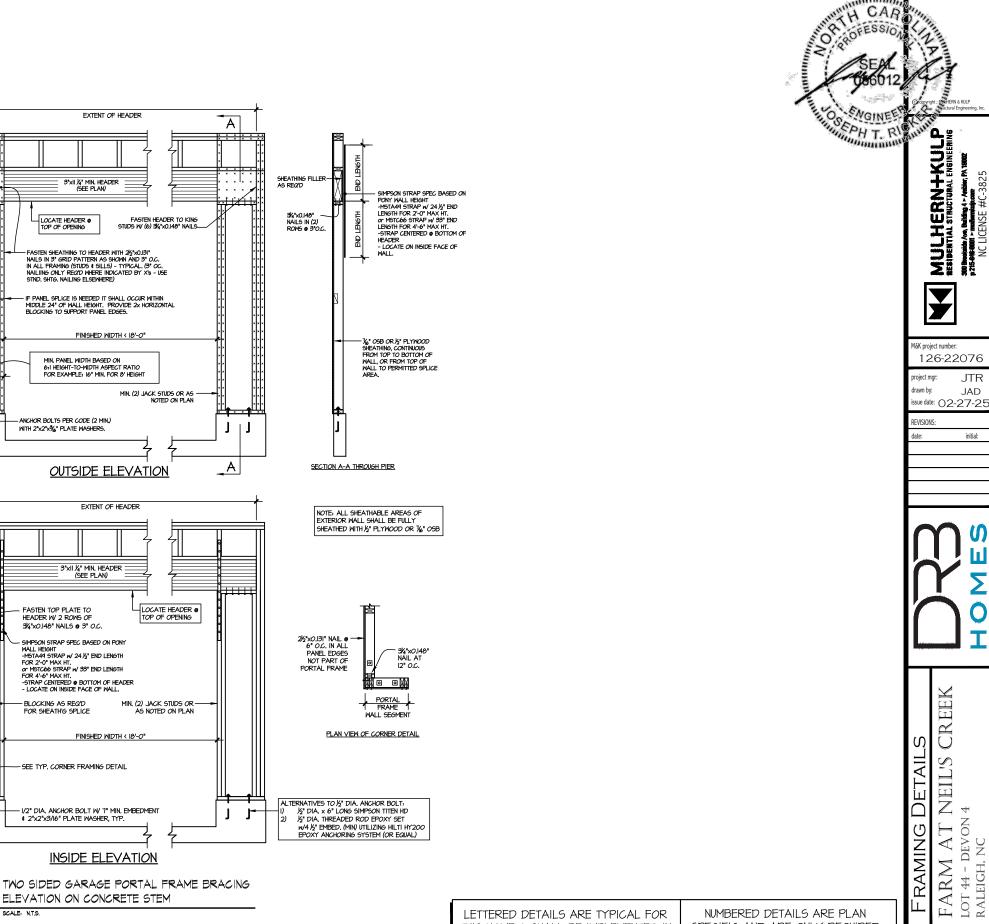
rawn by: sue date: 02-27-2

REVISIONS initial:

U  $\mathcal{S}$ ZEIL AT DEV(

ARM LOT

SD2.1C



THIS HOME & SHALL BE IMPLEMENTED IN

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

- ANCHOR BOLTS PER CODE (2 MIN.)

WITH 2"x2"x%" PLATE WASHERS.

- FASTEN TOP PLATE TO HEADER W/ 2 ROWS OF 31/4"x0.148" NAILS @ 3" O.C.

— BLOCKING AS REQ'D FOR SHEATH'G SPLICE

PONY WALL MAX. HT.: =2'-0" w/ SIMPSON MSTA49 =5'-0" w/ SIMPSON MSTC66 /

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

**SD2.2** 

3/4/25

**JTR** 

initial:

3/4/25

MUCHERN+KULP

RESIDENTIAL STRUCTURAL ENGINEERING Y

M&K project number:

126-22076

JTR drawn by: issue date: 02-27-25

FARM AT NEIL'S CREEK LOT 44 - DEVON 4 RALEIGH, NC

FRAMING DETAILS

**SD3.0** 

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

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

HOLLOW COLUMN-WRAP IF REQ'D PER ARCH

SOLID 4x4 OR-6x6 P.T. POST (SEE PLANS)

-POST CAP (SEE PLANS & TYP. NOTES)

TYPICAL PORCH
POST CONNECTION DETAIL
SCALE: NONE SLAB ON GRADE SHOW

POST BASE (SEE PLANS &
TYP. NOTES) W/½" DIA.
ANCHOR BOLT OR SIMPSON
TITEN HD W/MIN. 6" EMBED.
SLOPE
TYPER PLAN
(SE

TYP. PORCH SLAB (SEE FND DETAILS)

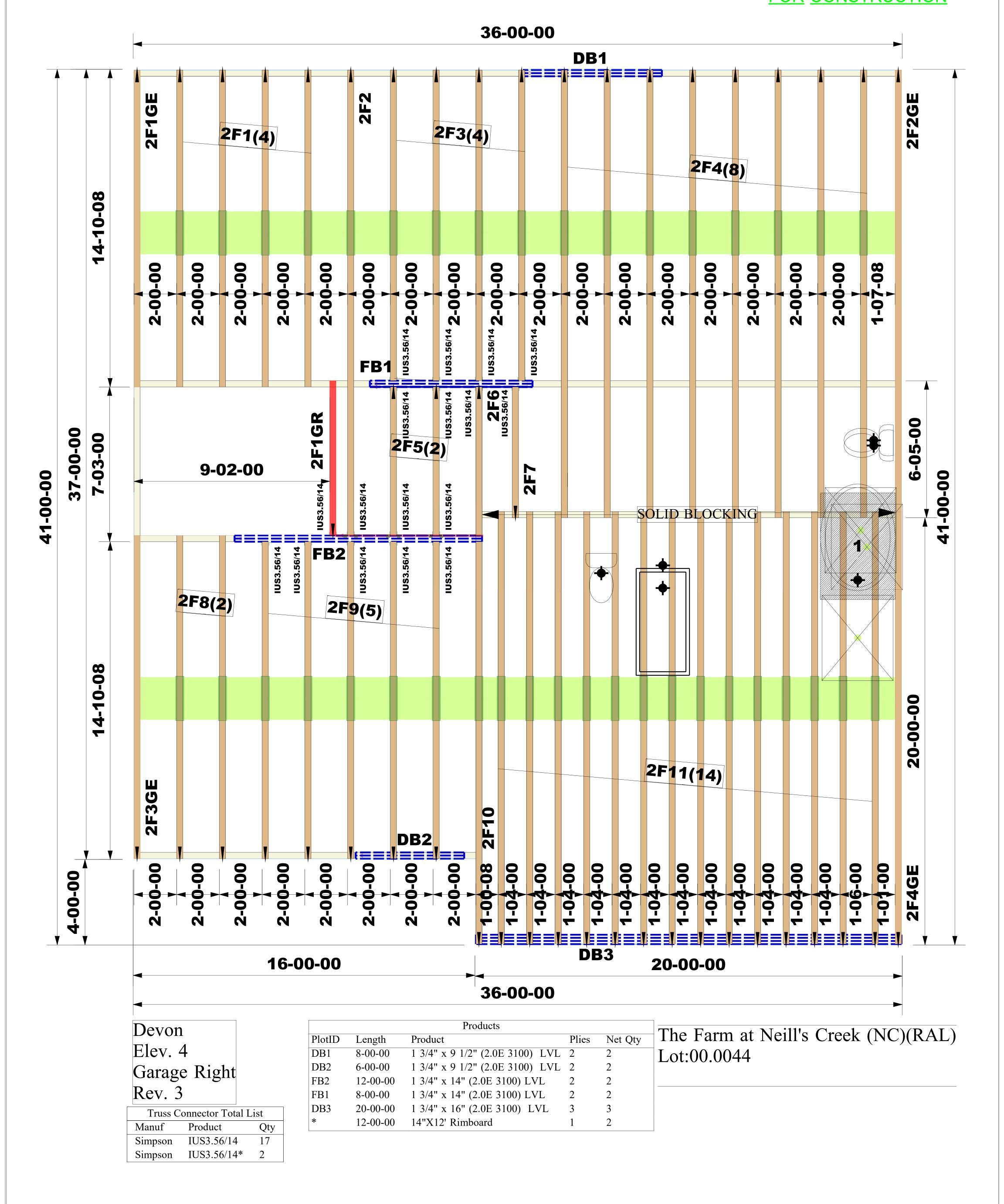
-CONC. TRENCH FOOTING

SLAB ON GRADE SHOWN

# FLOOR TRUSS LAYOUT

SCALE: NTS

FOR CONSTRUCTION



Job #: <b>2502-2423</b>	WARNING:  CONVENTIONAL FRAMING, ERECTION AND/OR PERMANENT BRACING IS NOT THE RESPONSIBILITY OF THE TRUSS DESIGNER, PLATE MANUFACTURER, OR THE TRUSS MANUFACTURER. PERSONS ERECTING TRUSSES ARE CAUTIONED TO SEEK PROFESSIONAL ADVICE REGARDING THE ERECTION BRACING WHICH IS ALWAYS REQUIRED TO PREVENT TOPPLING AND	NOTE:  IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PER REACTIONS SHOWN ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST  COUNTY OF THE BUILDING DRAW OF THE BUILDING COUNTY OF THE BUILDING CONNECTIONS) IN TRUSS SPACE MUST  COUNTY OF THE BUILDING COUNTY OF THE BUIL	Creek Lot  Third-Party Quality Assurance Licensee TPI Plant W974
Designer:  Rajkumar yadav Sales Rep:  Robbie Zarobinski	DOMINOING DURING ERECTION; AND PERMANENT BRACING WHICH MAY BE REQUIRED IN SPECIFIC APPLICATIONS. SEE "BRACING WOOD TRUSSES COMMENTARY AND RECOMMENDATIONS" (BCSI 1) FOR FURTHER INFORMAITON.  TRUSSES SHALL BE INSTALLED IN A STRAIGHT AND PLUMB POSITION WHERE NO SHEATHING IS APPLIED DIRECTLY TO TOP AND/OR BOTTOM CHORDS, THEY SHALL BE BRACED AS SPCIFIED ON THE ENGINEERED DESIGN. TRUSSES SHALL BE HANDLED WITH REASONABLE CARE DURING ERECTION TO PREVENT DAMAGE OR PERSONAL INJURY.	(AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.  THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN WTCA 1-1995 "DESIGN RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTIION DESIGN, DRAWINGS, DOCUMENTS INCLUDING THE INSTALLATION, AND BRACING OF TRUSSES MANUFACTURED BY THIS COMPANY.  MODEL Name: Devon	Structural, LLC 201 Poplar Avenue Thurmont, MD 21788 Phone: 301-271-7591

