MIDDLETON-RALE

RALEIGH - LOT 00.0144 THE FARM AT NEILL'S CREEK

(MODEL# 2183)

ELEVATION 10- GL

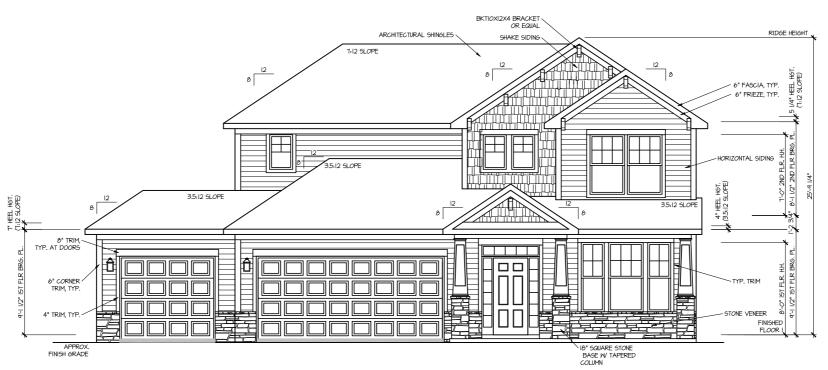
<u>INDEX</u>



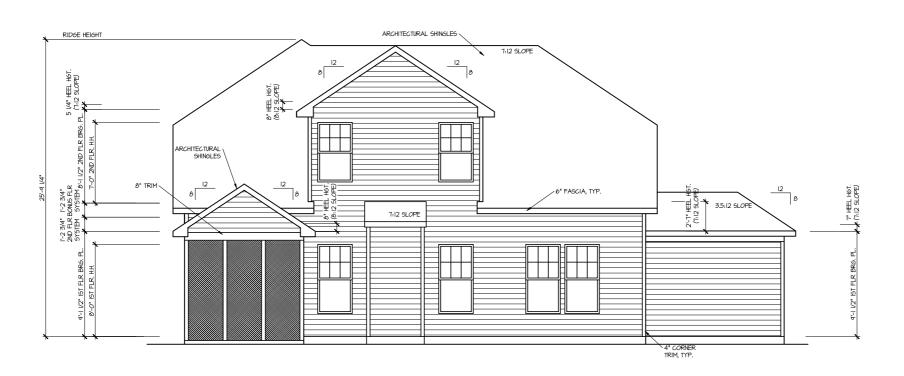
ADEA OALOULATIONO			
AREA CALCULATIONS			
	4	COVERED /	
ELEVATION 10	HEATED	UNHEATED	UNCOVERED
FIRST FLOOR	1495 SF		
GARAGE		417 SF	
FRONT PORCH - ELEVATION 10		203 SF	
SECOND FLOOR	692 SF		
0200110 1 20011	002 0		
OPTIONS			
BONUS ROOM	310 SF		
SCREEN PORCH	010 01	124 SF	
FIREPLACE	10 SF	.21 01	
3RD CAR GARAGE	1.0 0.	252 SF	
2' GARAGE EXTENSION		40 SF	
2 GARAGE EXTENSION		40 31	
TOTAL	0507.05	1070.05	
TOTAL	2507 SF	1036 SF	
	· ·	·	

131 Green Tractor Drive

	SPECIFIC	
1	LOT 00.0144	THE FARM AT NEILL'S CREEK
		MIDDLETON REV. RALE 2 ELEVATION 10
2	ADDRESS	131 GREEN TRACTOR DR LILLINGTON, NC 27546



FRONT ELEVATION IO



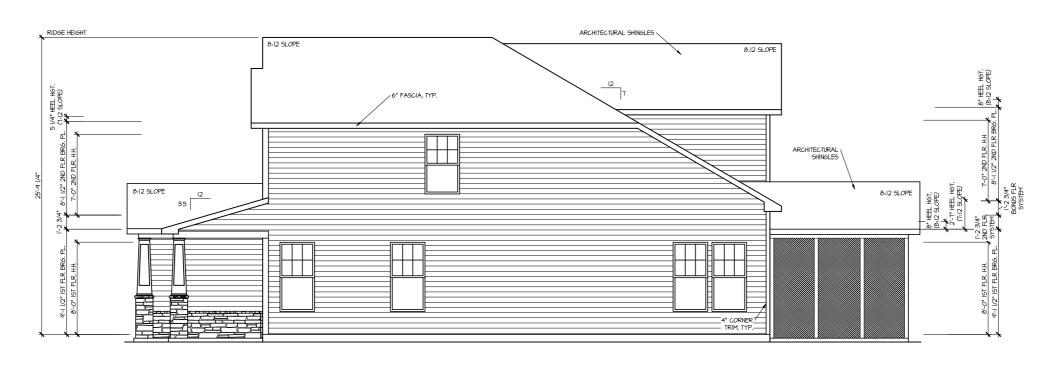
REAR ELEVATION IO

| MASTER PLAN INFORMATION | REVISION | DATE | C3-20-2024 | C9-23-2024 | C9-23-2024

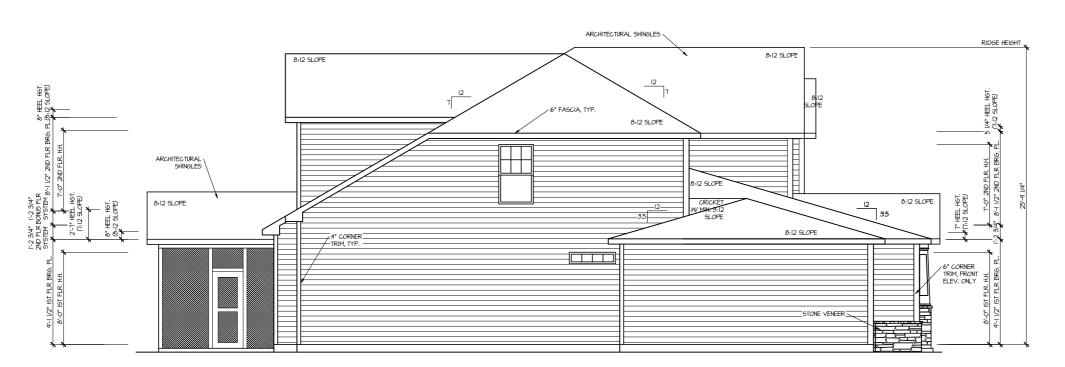
DRAWN BY: ITS DATE: 08/15/2025 PLAN NO. 2183



HOUSE NAME:
MIDDLETON
DRAWING TILE
FRONT & REAR ELEVATIONS



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



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

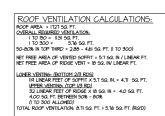
UPDATED DATE 09-23-2024 DRAWN BY:

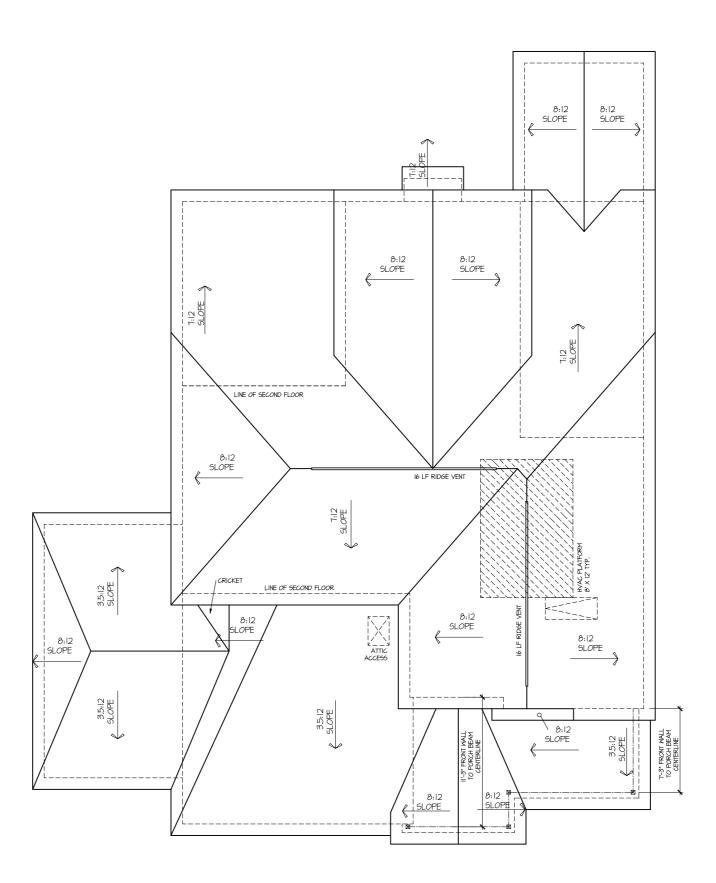
DATE: 08/15/2025 PLAN NO. 2183



ELEVATIONS HOUSE NAME:
MIDDLETON
DRAWING TITLE
RIGHT & LEFT E

SHEET No. A1.2





ROOF PLAN ELEV. 10 SCAE 1/6" = 1'-0"

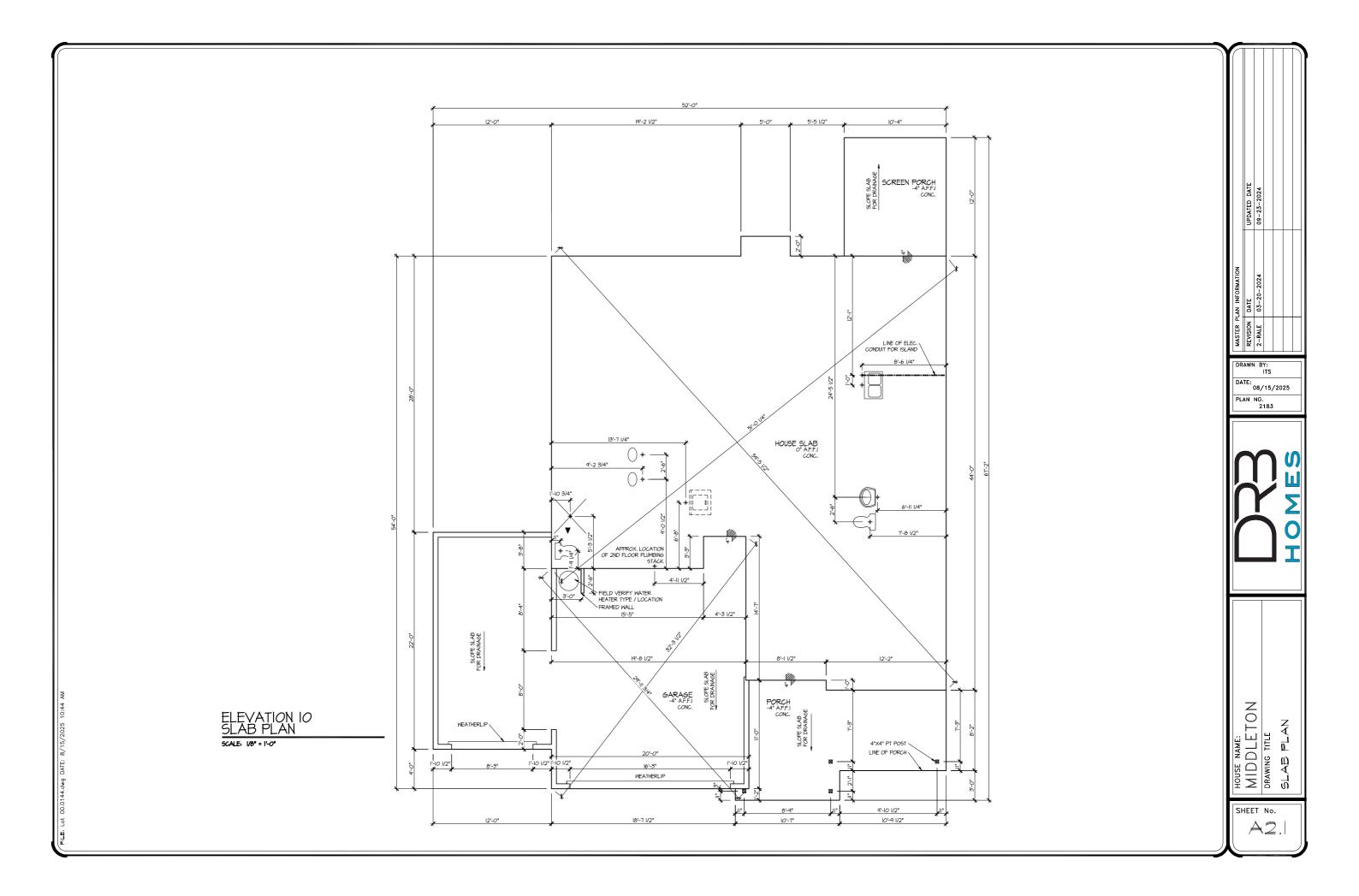
HOUSE NAME:
MIDDLETON
DRAWING TITLE
ROOF PLAN

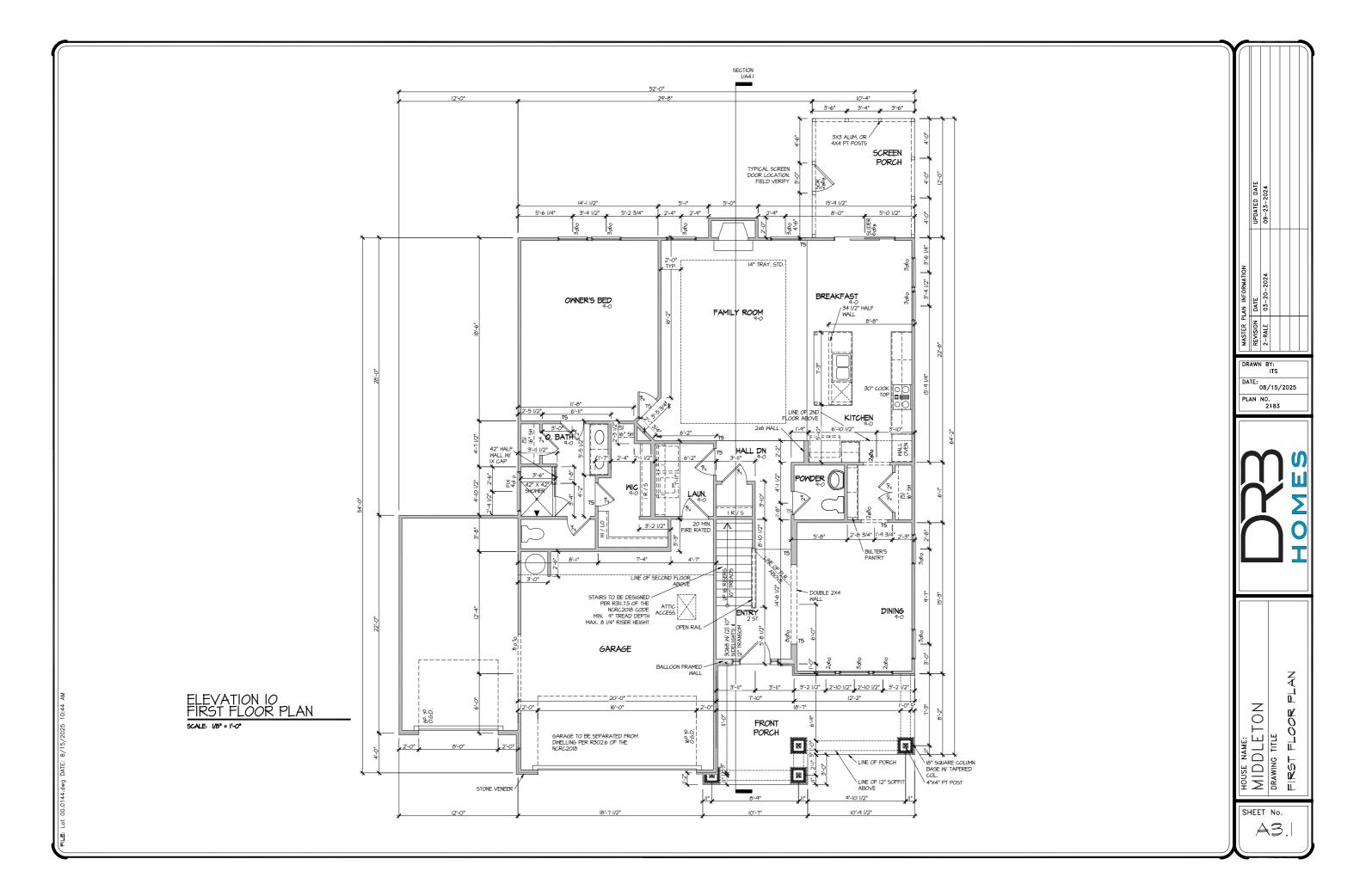
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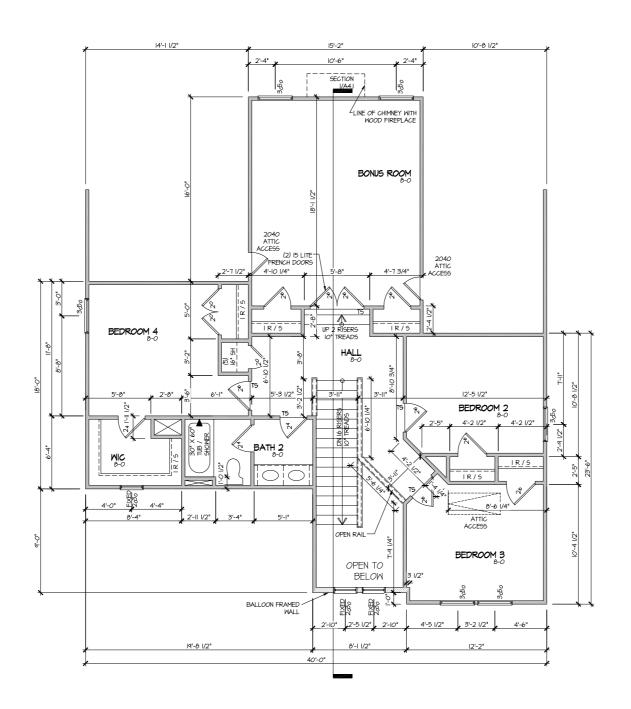
DRAWN BY: DATE: 08/15/2025

PLAN NO. 2183

SHEET No. AI.3



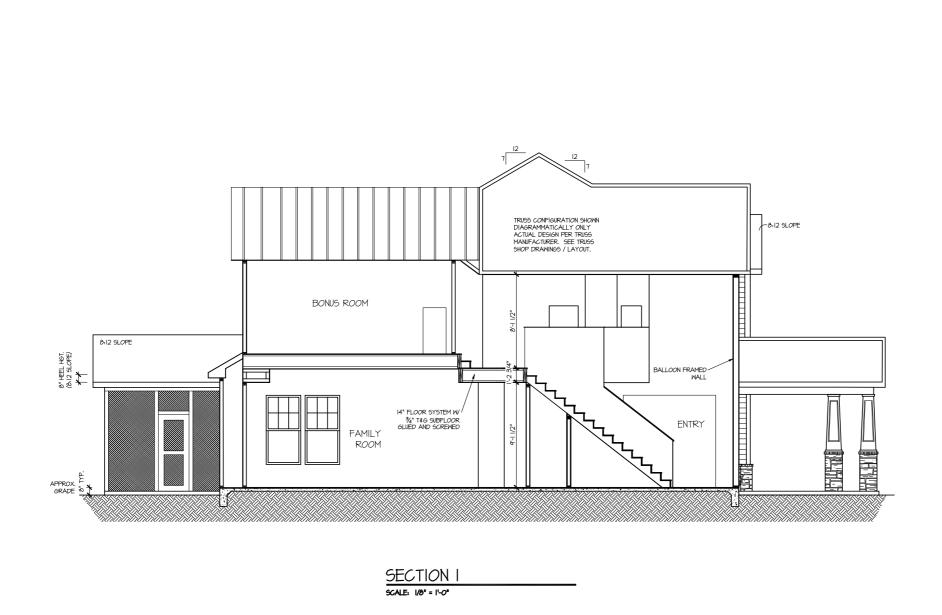




ELEVATION IO SECOND FLOOR PLAN SCALE 100° = 11-0° DRAWN BY: ITS DATE: 08/15/2025 PLAN NO. 2183



HOUSE NAME:
MIDDLETON
DRAWING TITLE
SECOND FLOOR PLAN



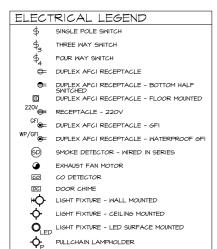
DRAWN BY:
ITS

DATE:
08/15/2025

PLAN NO.
2183

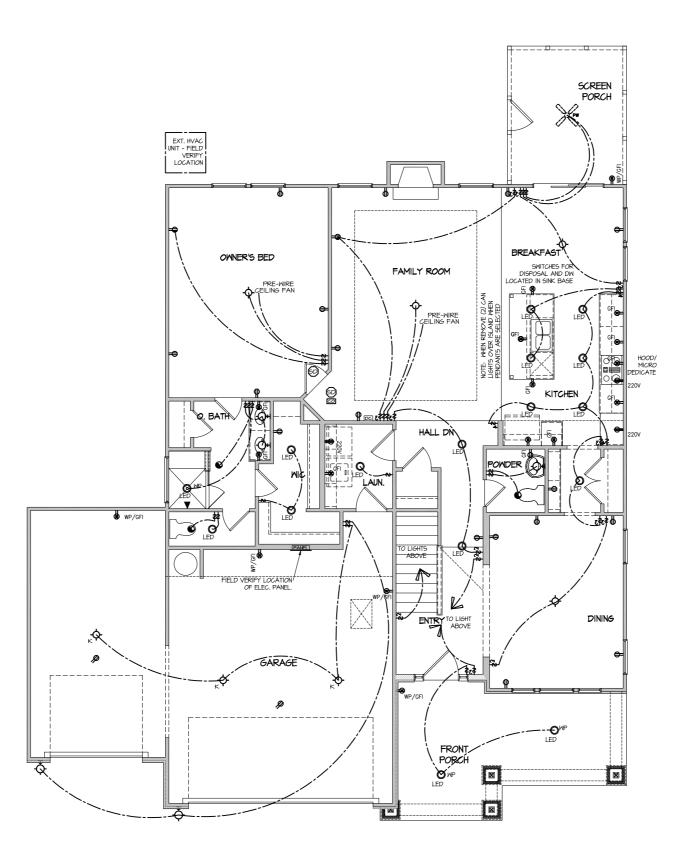


HOUSE NAME:
MIDDLETON
DRAWING TITLE
BUILDING SECTION

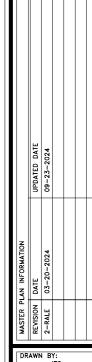


MOTE: ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, THE LOCAL POWER COMPANY AND TO ALL APPLICABLE LOCAL REGULATIONS.

- KEYLESS LAMPHOLDER



ELECTRICAL PLAN FIRST FLOOR - ELEV. 10 SCALE: 1/8" = 1'-0"



DRAWN BY: ITS DATE: 08/15/2025 PLAN NO. 2183

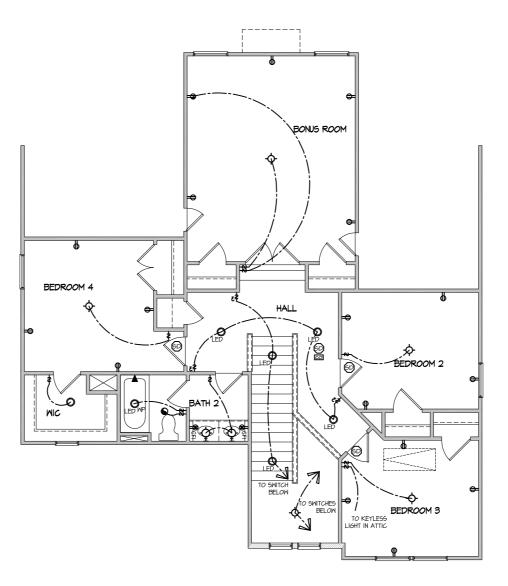


HOUSE NAME:
MIDDLETON
DRAWING TITLE
FIRST FLOOR ELECTRICAL

NOTE: ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, THE LOCAL PONER COMPANY AND TO ALL APPLICABLE LOCAL REGULATIONS.

Pullchain Lampholder

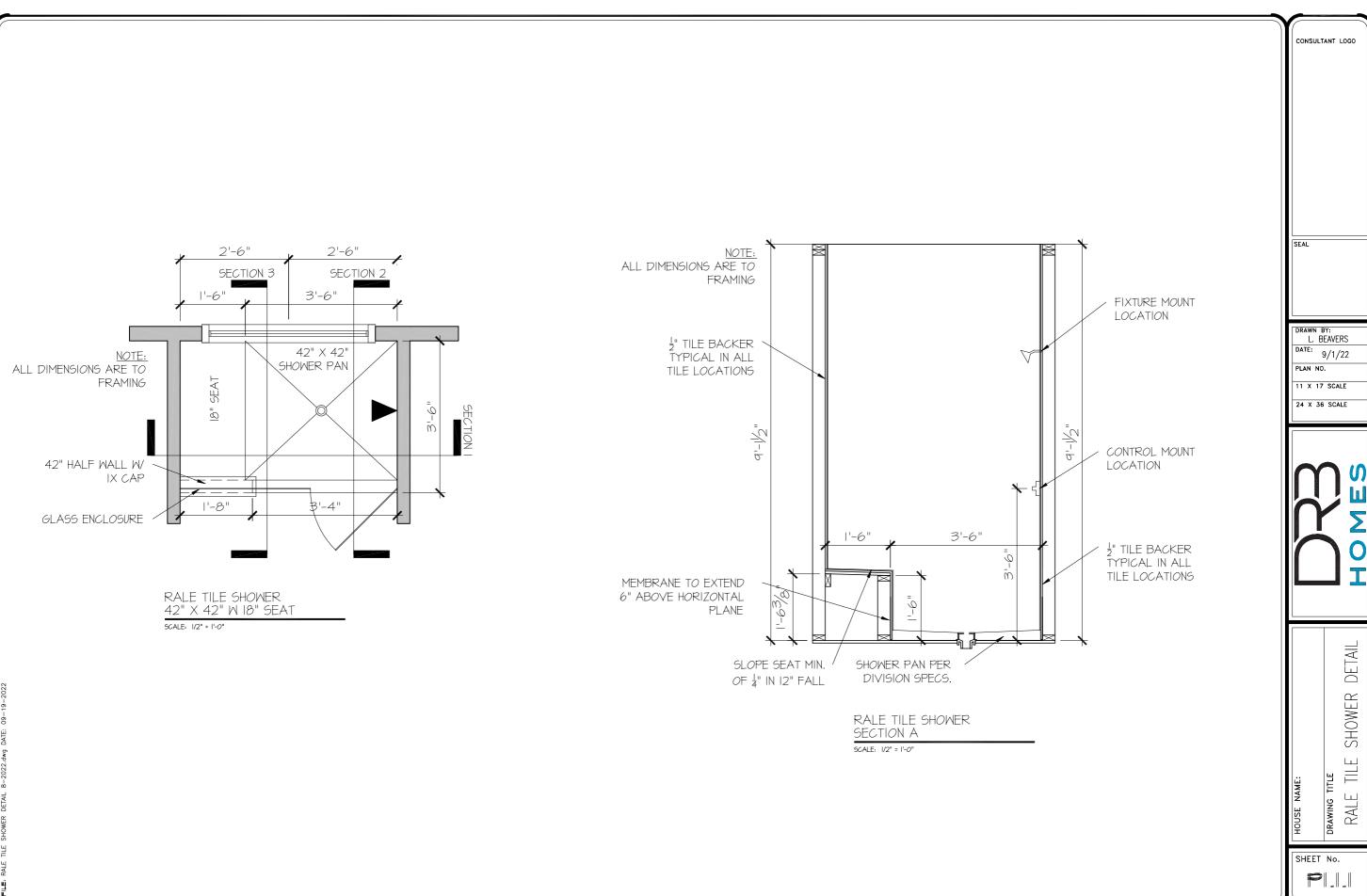
Keyless Lampholder



ELECTRICAL PLAN SECOND FLOOR - ELEV. 10 SCALE: 1/8" = 1'-0"



HOUSE NAME:
MIDDLETON
DRAWING TILE
SECOND FLOOR ELECTRICAL





DRAWN BY: L. BEAVERS DATE: 9/1/22 PLAN NO.

11 X 17 SCALE 24 X 36 SCALE



DETAIL SHOWER

RALE

DRAWING TITLE
RALE TILE

SHEET No.

PI.I.2

GLASS ENCLOSURE <u>-</u>P 42" HGT. HALF WALL W/ IX CAP BEYOND I" TILE BACKER V / LINE OF SEAT TYPICAL IN ALL BEYOND TILE LOCATIONS MEMBRANE TO EXTEND OVER CURB / MEMBRANE TO EXTEND (2) 2X4 PT CURB 6" ABOVE HORIZONTAL PLANE SHOWER PAN PER 3'-6" DIVISION SPECS. RALE TILE SHOWER

SECTION C

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

LINE OF TILE

TO CLG.

LINE OF TILE TO CLG. FIXTURE MOUNT LOCATION GLASS ENCLOSURE CONTROL MOUNT LOCATION "B-19 1 TILE BACKER TYPICAL IN ALL TILE LOCATIONS MEMBRANE TO EXTEND OVER CURB MEMBRANE TO EXTEND (2) 2X4 PT CURB 3'-6"

RALE TILE SHOWER SECTION B

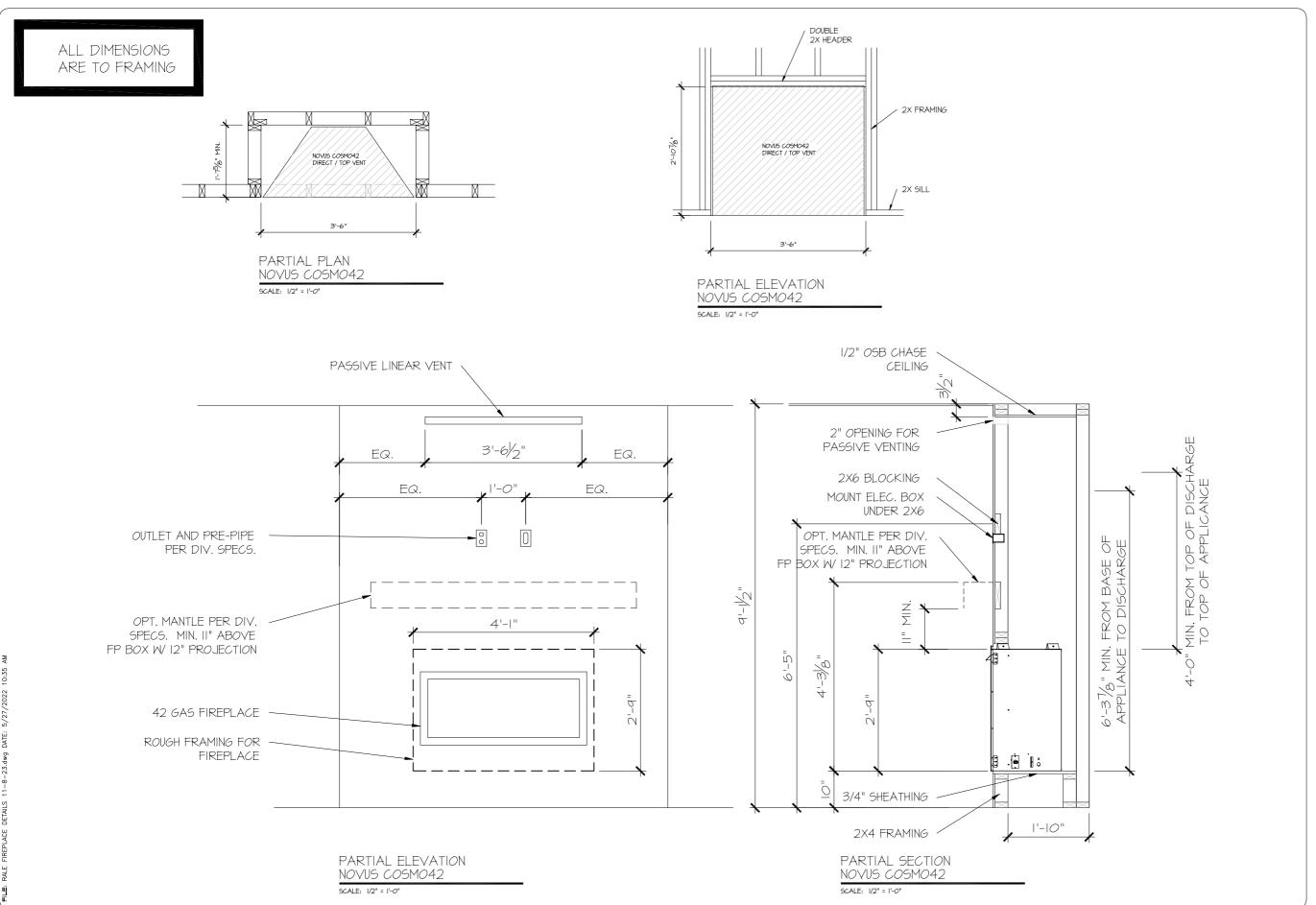
SCALE: 1/2" = 1'-0"

6" ABOVE HORIZONTAL

SHOWER PAN PER

DIVISION SPECS.

PLANE



CONSULTANT LOGO

SEAL

DRAWN BY:
L. BEAVERS

DATE:
11-8-23

PLAN NO.
N/A
11 X 17 SCALE

24 X 36 SCALE



HOUSE NAME:
RALE FIREPLACE DETAILS
DRAWING TITE
RALE FIREPLACE DETAIL
INTERIOR GAS UNITS

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 2x SILL PLATES TO FND WITH A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAX, FROM PLATE ENDS - UTILIZING
- I/2" DIA. ANCHOR BOLTS O'-0" O.C, 7" MIN. EMBEDMENT
- (CONC.) 15" MIN EMBERMENT (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. SPF OR SYP, "STUD" GRADE OR BETTER.
- CONCRETE DESIGN BASED ON ACI 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 10' HEIGHT (AS NOTED ON PLANS
- TALLER WALLS MUST BE ENGINEERED.
- NOMINAL WIDTH (9 25" 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 BACKELLING, BY ADEQUATE TEMPORARY BRACING OR INSTALL 1st FLOOR DECK.
- PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN
- CONCRETE BONT, 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 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'-0" O.C. (MAXIMUM) JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS
- POSSIBLE (I.I RATIO), WITH A MAXIMUM OF I.I.5 RATIO CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL SI ARS
- 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 2x6 (MIN.) x 16" LONG P.T. PLATE ON TOP OF ALL CRAWL SPACE PIERS. ALL PIERS SHALL BE FASTENED PER ANCHORAGE SPECIFICATIONS NOTED ABOVE. TOP 2 COURSES (MIN.) OF PIER TO BE GROUTED SOLID (8 COURSE MAX. PIER HEIGHT).
- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRAWL SPACE WALLS, FASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE. TOP 2 COURSES (MIN.) OF WALL TO BE GROUTED SOLID (8 COURSE MAX. WALL HEIGHT)
- * DIMENSIONS BY OTHERS, BUILDER TO VERIFY.

DESCRIPTION OF BLDG. ELEMENT 3"x0.131" NAILS

BLK'G. BTWN, JOISTS TO TOP PL. (3) TOENAILS

DOUBLE TOP PLATE NAILS © 24" O.C.
DOUBLE TOP PLATE LAP SPLICE (9) NAILS IN LAPPED AREA

DIST TO SOLE PLATE

RIM TO TOP PLATE

OUBLE STUD

OLE PLATE TO JOIST/BLK'G.

OP OR SOLE PLATE TO STUD

FOP PLATE LAP @ CORNERS &

ONLY ACCEPTABLE WHERE * ARE SHOWN)

ITERSECTING WALLS

• 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.

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

(3) TOFNAILS

(3) NAILS **@** 4" o.a (2) TOENAILS

TOFNAILS @ 8" C

NAII 5 @ 24" 04

* 2½"x0.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS.

(2) NAILS

GENERAL STRUCTURAL NOTES

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

DEAD = 7 PSF T.C., IO PSF B.C. LIVE = 16 PSF

LOAD DURATION FACTOR = 1.25

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

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

2,000 PSF ASSUMED ALLOWABLE BEARING 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 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.
- FXT & INT BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLAN • 16" O.C. SPF OR SYP "STUD" GRADE LUMBER, OR BETTER, U.N.O.
 - . WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRICE-PINE-FIR #2 (SPE) 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
 - (I)2x4/6 FLAT OPENINGS UP TO 4', (2)2x4/6 FLAT UP TO 8'.
- ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15). • ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING:
 - 'L9L' Fb=2325 psi; Fv=3I0 psi; E=I.55xI0^6 psi
- LVL' Fb=2600 psi; Fv=265 psi; E=2.0xl0^6 psi '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, OF
- FOR 2 & 3 PLY BEAMS OF FOUAL WIDTH FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 8" O/C OR 2 ROWS 1/4"x3/4" SIMPSON SDS SCREMS (OR 31/2" TRUSSLOK SCREMS) @ 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 NAIL S/SCREWS 2" FROM FDGE. SOLID 3 K" OR 5 K" 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 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 UNO
- ALL MULTI-PLY STUDS TO BE FASTENED TOGETHER W/ 3"X0.I3I" NAILS @ 24" O.C. (MIN.), EACH PLY.

3"x0120" NAILS

(3) TOENAILS*

(3) TOENAILS*

NAILS @ 16" 0.0

NAILS @ 16" O.

(3) NAILS @ 4" o.c

(3) NAILS TOENAILS @ 6" O.C.

(II) NAILS IN LAPPED AREA (2) NAILS

- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND BEARING. BLOCKING TO MATCH POST ABOVE. * FASTEN 2V WOOD PLATES TO TOP ELANGE DE 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 BC52-2/4

FLOOR FRAMING

- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES MARBLE FLOORS - CONTACT MEK 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 3" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES € @ 12"o.c. FIELD.
- 2 3" x 0,120" NAILS @ 4" O.C. @ PANEL EDGES € @ 8" O.C. FIELD 2 3" x 0.113" NAILS @ 3" Q.C. @ PANEL EDGES & @ 6" Q.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 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.
- PERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI I-08 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES."
- SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (MAX 7' SPAN) W 2x4 LEDGER (UN.O.) FASTENED TO:

(FLOOR TRUSSES)

- RIM BOARD w/ (2) 3"x0.131" NAILS @ 16" O.C. MAX. (1-JOISTS) TRUSS VERTICALS w/ (3) 3"x0.131" NAILS @ 19.2" O.C. MAX.
- * ROOF SHEATHING SHALL BE 1/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS - w/ 2 1 x 0 131" NAII S @ 6"04 @ PANEL EDGES & @ 12" 04 FIELD - w/ 2 3" x 0,120" NAIL 5 @ 4"0 c, @ PANEL FDGES & @ 8" 0 C, FIELD

- w/ 2 🖥 x 0.113" NAILS 👁 3"o.c. 👁 PANEL EDGES 🛭 👁 6" O.C. FIELD.

SYMBOL	SPECIFICATION			
► HD-I	SIMPSON HTT4 HOLD-DOWN * (%" DIA. ANCHOR)			
HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.) -OR- MSTC66B3 ALTERNATE			
► HD-3	SIMPSON STHD14/STHD14RJ			

HOLD-DOWN SCHEDULE

* <u>Utilize the 95TB24 anchor Bolt</u> • All Monoslab & interior raised slab (i.e. thickened slab6, footings) conditions. Minimum 24* Min. FOOTING THICKNESS REQUIRED

POXY-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 1/8" DIA.) MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF. INSTRUCTIONS. MINIMUM 16" FOOTING THICKNESS REQ'D. DO NOT LOCATE ANCHORS WITHIN L3/4" OF FDGE OF CONCRETE.

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

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

0 MPH WIND IN 2018 NCSBC:R((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 NGSBG:RG, 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 NGSBC: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 % "X0.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: 1½" 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 NAII 5 @ 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: N 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

VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE
3'-O"	20 FT. MAX	L3"x3"x/4"
6'-0"	3 FT. MAX	L3'x3'x¼'
	I2 FT. MAX	L4"x3"x/4"
	20 FT, MAX	L5"x3½"x¾"
ð'-O"	3 FT. MAX	L4"x4"x¼" "
	I2 FT. MAX	L5"x3%"x%"
	I6 FT. MAX	L6"x3½"x%"
4'-6"	I2 FT. MAX	L6"x3%"x%"
16'-0"	2 FT. MAX	L7"x4"x½" **
	2 1111	1.01. (1.1/1.44

IALL SUPPORT 2 %" - 3½" VENEER W 40 psf MAXIMUM WEIGHT.

SMALL SUPPORT 2 % - 9.5" YENEER IN 40 PBF MAAIRING MEIGHT.

16" SHALL HAVE 8" MIN. BEARING

16" SHALL HAVE 8" MIN. BEARING

16" SHALL DET BE FASTIBED BACK TO HEADER.

16" SHALL DET FASTIBED BACK TO MOOD HEADER IN MALL #48" O.C.

W.S. DIA. X 35", LONG LAG SCREING IN 2" LONG VERTICADE.

SLOTTED HOLES.

IAX, VENEER HT. APPLIES TO ANY PORTION OF BRICK OVER THE OPENING.
ALL LINTELS SHALL BE LONG LEG VERTICAL.
WHEN SUPPORTING VENEERS (3" MIDE THE EXTERIOR TOE OF THE
HORIZOATHAL LEG MAY BE CUT IN THE FIELD TO BE 3 1/4" MIDE OVER
THE BEARING LENGTH ONLY, THIS IS TO ALLOW FOR MORTAR JOINT

STRUCTURAL PLANS FOR ANY LINTEL CONDITION NOT

LEGEND

- IIIIIIIIII 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.

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
(2)2x8	(3)2x8
	PARTITION WALL (1)2x4 FLAT (2)2x4 (2)2x6

NOTES:

* ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS SPACED @ 24" OC (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 DETERMINE THE ERECTION PROCEDURES SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT.

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

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

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

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

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

ENGINEERED BEAM MATERIAL SCHEDULE

BEAM NUMBER	LYL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)194"×1176" - H	3½"xII%" - H	(2)1¾"x11%" - H	(2)2xl2 + (I) 片"xl片" STEEL FLITCH PLATE - H	N/A
00IA	(2)13/4"x113/6" - H	3½"xII%" - H	(2)1¾"x11%" - H	(2)2xl2 + (l)片"xli片" STEEL FLITCH PLATE - H	N/A
002	(2)194"x18" - FT	5¼"xl8" - FT	N/A	(3)2xi2 + (2)½"xi½" Steel Flitch Plates - FB	WI2xI4 - F
003	(2)134"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xi2 + (I) ¼"xil¼" STEEL FLITCH PLATE - FB	WI2xI4 - F
004	(2)13/4"×14" - F	3½"x 4" - F	(2)19/4"×14" - F	(2)2xi2 + (I) ¼"xil¼" STEEL FLITCH PLATE - FB	WI2xI4 - F
005	(2)134"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xi2 + (I)从"xil以" STEEL FLITCH PLATE - FB	WI2xI4 - F
006	(2)134"×14" - F	3½"x 4" - F	(2)19/4"×14" - F	(2)2xl2 + (l) ¼"xll¼" STEEL FLITCH PLATE - FB	WI2xI4 - F
001	(2)13/4"x113/6" - F	3½"xII%" - F	(2)1¾"x11%" - F	(2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATE - F	WI0x12 - F
008	(2)1¾"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xi2 + (I)¼"xil¼" STEEL FLITCH PLATE - FB	WI2xI4 - F
P00	(3)194"x16" - FT	5¼"xl8" - FT	N/A	(4)2xl2 + (3) 片"xliki" STEEL FLITCH PLATES - FB	₩2×26 - F
010	(3)13/4"×20" - FT	5¼"×20" - FT	N/A	(4)2xi2 + (3) %"xil4" STEEL FLITCH PLATES - FB	WI2x35 - F
OII	(2)1¾"x11%" - FB	3½"x 1%" - FB	(2)194"×14" - FB	(2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATE - FB	MIOxI2 - FB

- 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"XO.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.

8/27/2 H CAR SFESSIO ENGINE SEPH T. R

ERN+KU

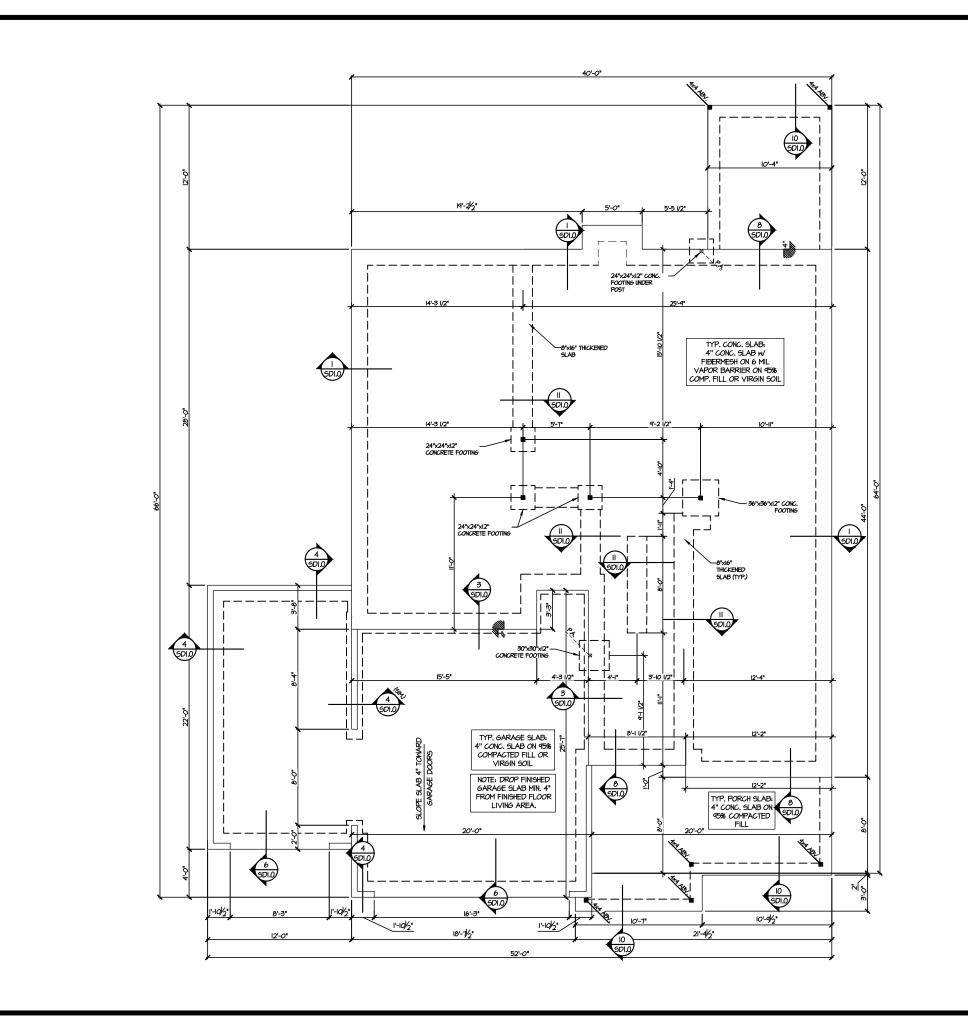
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126-22076 oject mgr: **JTR** rawn bv: NLD ssue date: 08-27-2

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MULHERNHERING
RESIDENTIAL STRUCTURAL ENGINEERING
STREAMSTAND RUING 4- Achier, PA 19882
9-215-016-02011 - Achier, PA 19882

M&K project number: 126-22076

project mgr: JTR
drawn by: NLD
issue date: 08-27-25

REVISIONS:

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CREEK

LANS

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

LEGEND

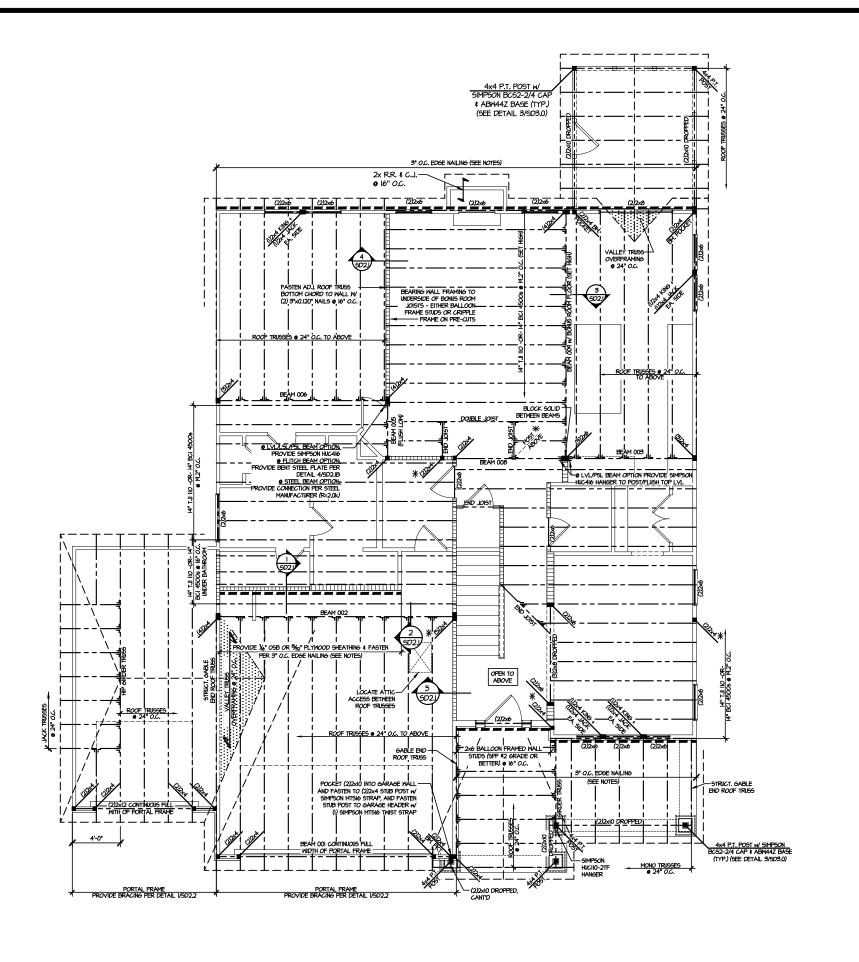
- INTERIOR BEARING WALL
- □==== BEARING WALL ABOVE
- --- BEAM / HEADER
- - INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- JL METAL HANGER
- * INDICATES POST ABOVE, PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP.
 REFER TO SCHEDULE.

REFER TO SO.O FOR
TYPICAL STRUCTURAL NOTES

\$ SCHEDULES

S1.0

FARM AT NEIL'S LOT 144 - MIDDLETON 10 RALEIGH, NC



2ND FLOOR/LOW ROOF FRAMING PLAN

	ENGINEERED BEAM MATERIAL SCHEDULE				
BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)13/4"x117/6" - H	3½"x ¾" - H	(2)1¾"x11%" - H	(2)2xi2 + (i) 片"xil以" STEEL FLITCH PLATE - H	N/A
00IA	(2)194"×1176" - H	3½"×II%" - H	(2)1¾"x11%" - H	(2)2xi2 + (i) 片"xil片" STEEL FLITCH PLATE - H	N/A
002	(2)194"x18" - FT	5¼"xi6" - FT	N/A	(3)2xi2 + (2)½"xil¼" STEEL FLITCH PLATES - FB	WI2xI9 - F
003	(2)1¾"x14" - F	3½"x 4" - F	(2)19/4"×14" - F	(2)2xl2 + (I)¼"xll¼" STEEL FLITCH PLATE - FB	WI2xI4 - F
004	(2)134"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xl2 + (1) ¼"xll¼" STEEL FLITCH PLATE - FB	WI2xI4 - F
005	(2)13/4"×14" - F	3½"x 4" - F	(2)13/4"×14" - F	(2)2xi2 + (i) ¼"xil¼" STEEL FLITCH PLATE - FB	WI2xI4 - F
006	(2)1¾"x14" - F	3½"x 4" - F	(2)194"×14" - F	(2)2xi2 + (1) ¼"xil¼" STEEL FLITCH PLATE - FB	WI2xI4 - F
001	(2)194"x11%" - F	3½"xll%" - F	(2)1¾"x11%" - F	(2)2xl2 + (I) ¼"xll¼" STEEL FLITCH PLATE - F	WI0xI2 - F
800	(2)134"×14" - F	3½"x 4" - F	(2)19/4"×14" - F	(2)2xl2 + (1) ¼"xll¼" STEEL FLITCH PLATE - FB	WI2xI4 - F
P00	(3)13/4"x18" - FT	5¼"xl6" - FT	N/A	(4)2xl2 + (3) ½"xll以" STEEL FLITCH PLATES - FB	WI2x26 - F
010	(3) %"×20" - FT	5¼"x20" - FT	N/A	(4)2xl2 + (3) %"xll以" STEEL FLITCH PLATES - FB	WI2x35 - F
OII	(2)1¾"x11%" - FB	3½'x %' - FB	(2)13/4"×14" - FB	(2)2xi2 + (i) ¼"xil¼" STEEL FLITCH PLATE - FB	MIOxI2 - FB

- BEAM NOTATION:
 "F" INDICATES FLUSH BEAM
 "FT" INDICATES FLUSH TOP BEAM
 "FB" INDICATES FLUSH BOTTOM BEAM
- "D" INDICATES DROPPED 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 SITEL BEAM CONNECTIONS
 FOR FLUSH TOP DETAIN FROVINE 2 S TACKED PLATES BENEATH DEAM 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"XO.120" NAILS @ 8" O.C.

CREEK

A AT NEIL'S - MIDDLETON 10 FARM LOT 144 - N RALEIGH, N

8/27/25

MULHERN+KUL RESIDENTIAL STRUCTURAL ENSINEER SUBMARIE AM BUILDE 1- AMARI, PA 1902 278-58-501 - EMBARIE AMARI, PA 1902

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M&K project number: 126-22076

drawn by:

REVISIONS

JTR

NLD issue date: 08-27-25

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TH CAR

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LEGEND

INTERIOR BEARING WALL

● □===□ BEARING WALL ABOVE

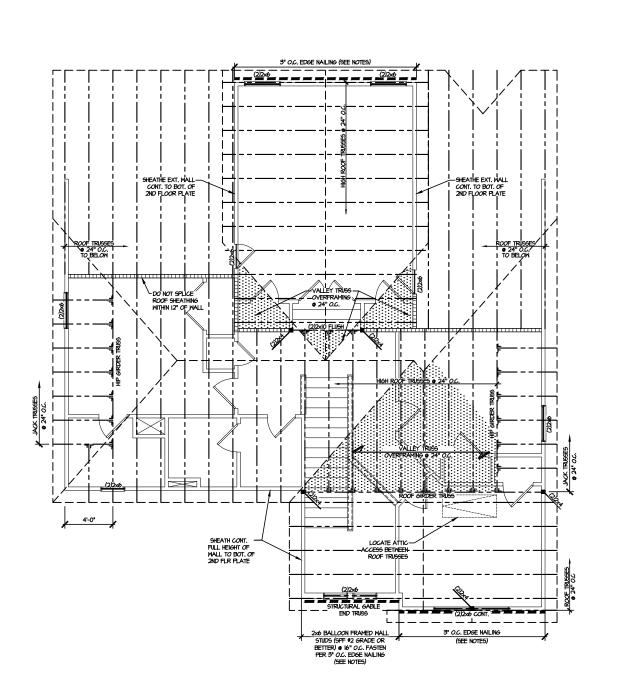
• ---- BEAM / HEADER

• = = INDICATES SHEAR WALL & EXTENT • EXTENT OF OVERFRAMING

* 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



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

8/27/25 H CAR SEPH T. RI

MULHERN+KULP

ESSIDENTIAL STRUCTURAL ENSINERING

2008-Market Ava Builting 1- Ambrir P. 1992

225-256-25011 - malmorispoor Y

M&K project number: 126-22076

JTR NLD drawn by: issue date: 08-27-2

REVISIONS:

initial:



CREEK FARM AT NEIL'S LOT 144 - MIDDLETON 10 RALEIGH, NC

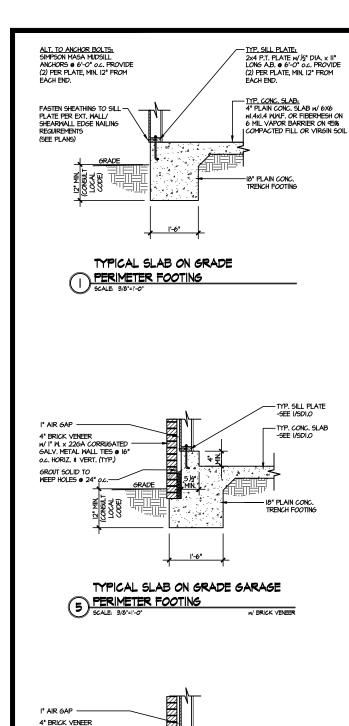
ROOF

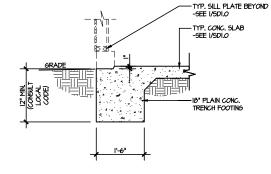
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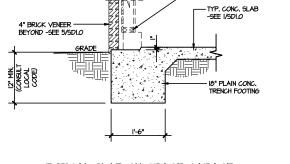
LEGEND

- 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







TYPICAL MONOLITHIC INTERIOR

3 GARAGE FOOTING

HOUSE INTERIOR

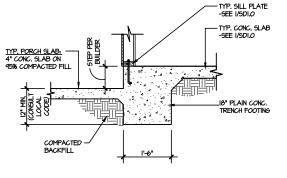
- TYP. SILL PLATE -SEE I/SDI.O

-TYP. CONC. SLAB -SEE I/SDI.O

-TYP. SILL PLATE BEYOND -SEE I/SDI.0

GARAGE INTERIOR

TYP. GARAGE SLAB: 4" CONC. SLAB ON 45% COMPACTED FILL OR VIRGIN SOIL



TYPICAL SLAB ON GRADE GARAGE

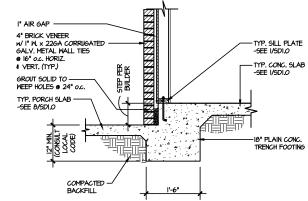
PERIMETER FOOTING

SCALE: 9/8"=1"-0"

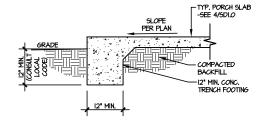


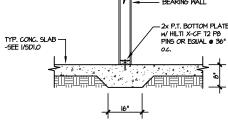






FOOTING @ PORCH/PATIO







TYPICAL SLAB ON GRADE PERIMETER

- TYP. SILL PLATE -SEE I/SDI.O

-TYP. CONC. SLAB

TYPICAL FOOTING @ PORCH SLAB

TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL

> 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.

CUT EVERY OTHER WIRE OF W.W.F. @ CONTROL JOINT I" DEEP SAW CUT CONTROL JOINT WITHIN 24 HOURS OF POUR MID-WAY INTO SLAB -LOCATE JOINTS @ SLAB CORNERS & OTHER AREAS 15' MAX INTERIOR BEARING WALL BETWEEN SAWCUTS -CONC. SLAB -SEE PLAN 2x P.T. BOTTOM PLATE

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

(SEE PLANS)

TYPICAL CONTROL JOINT SCALE: 9/8"=1"-0"

18" PLAIN CONC. TYPICAL SLAB ON GRADE GARAGE

-SEE I/SDI.O

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.)

GRADI

PERIMETER FOOTING

SCALE: 3/6*=1'-0*

TYPICAL SLAB ON GRADE

-Typ. SILL Plate -See I/SDI.0

- TYP. CONC. SLAB

-18" PLAIN CONC.

-SEE I/SDI.O

SD₁

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NEIL'S

AT

ARM LOT 144 - PRALEIGH,

8/27/2

ERN+KU

M&K project number 126-22076

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REVISIONS

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NLD issue date: 08-27-2!

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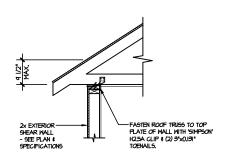
-SEE I/SDI.O

-SEE I/SDI.O

- TYP. CONC. SLAB

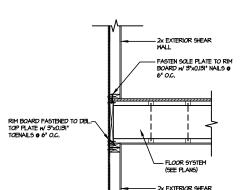
-18" PLAIN CONC. TRENCH FOOTING

OFESSIO

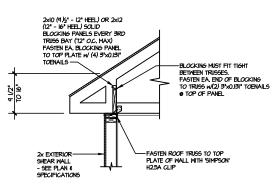


TYPICAL SHEAR

TRANSFER DETAIL @ ROOF
SCALE: 9/8'=1'-0' HEEL HEIGHT LESS THA HEEL HEIGHT LESS THAN 9½" NO BLOCKING REQ'D



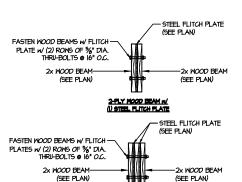
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
SCALE 9/8/11-0*



TYPICAL SHEAR

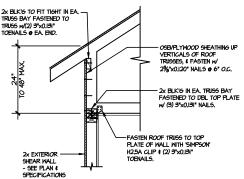
TRANSFER DETAIL @ ROOF
SCALE: 3/8":1"-0" HEEL HEIGHT BETWEEN 9.)

HEEL HEIGHT BETWEEN 9 ½" - 16" BLOCKING REQ'D

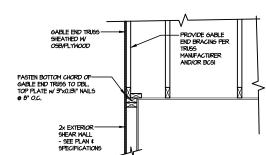


2x WOOD BEAM -(SEE PLAN)

TYPICAL FLITCH BEAM CONNECTION DETAIL
SCALE 844-1-0*



TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS
SCALE: 3/8'=1'-0' HEEL HEIGHT UP TO 48' MAX.



TYPICAL GABLE END DETAIL

SCALE: 9/8"=1"-0"



8/27/2

H CAR

SEPH T. R

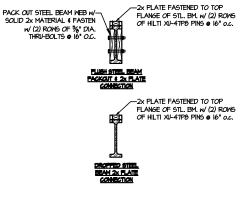
M&K project number: 126-22076

JTR drawn by: issue date: 08-27-2

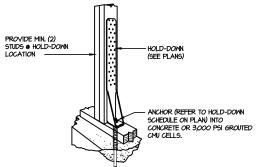
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Ŋ \Box **DETAIL** 1 AT NEIL'S (
- MIDDLETON 10
I. NC Ŋ FARM A
LOT 144 - M
RALEIGH, N



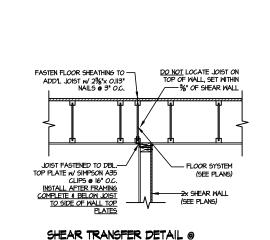
TYPICAL STEEL BEAM CONNECTION DETAIL



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

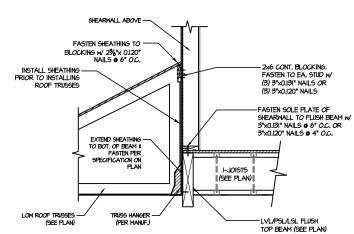
LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN ALL APPLICABLE AREAS. THESE DETAILS ARE NOT "CUT" ON THE PLANS.

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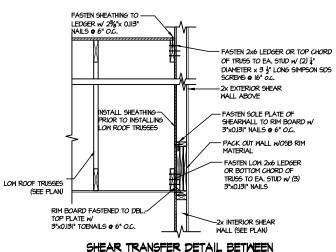


INTERIOR SHEARMALL BELOW
SCALE SWITCH PARAL

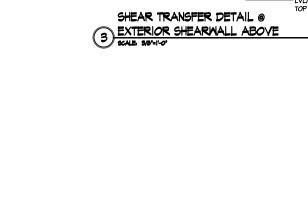
PARALLEL TO FRAMING ONLY REGOD WHERE NOTED ON PLAN

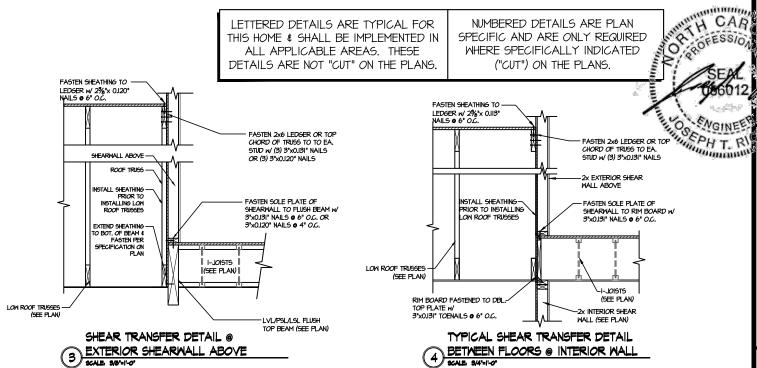






5 FLOORS @ INTERIOR ENTRY WALL
SCALE SATING





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

ALL APPLICABLE AREAS. THESE

NUMBERED DETAILS ARE PLAN

SPECIFIC AND ARE ONLY REQUIRED

WHERE SPECIFICALLY INDICATED



8/27/25

MULHERN+KUL RESIDENTIAL STRUCTURAL ENSINEER SUBMARIE AM BUILDE 1- AMBAG PA 19002 2715-58-6001 - Ambandapan

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M&K project number:

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REVISIONS

126-22076

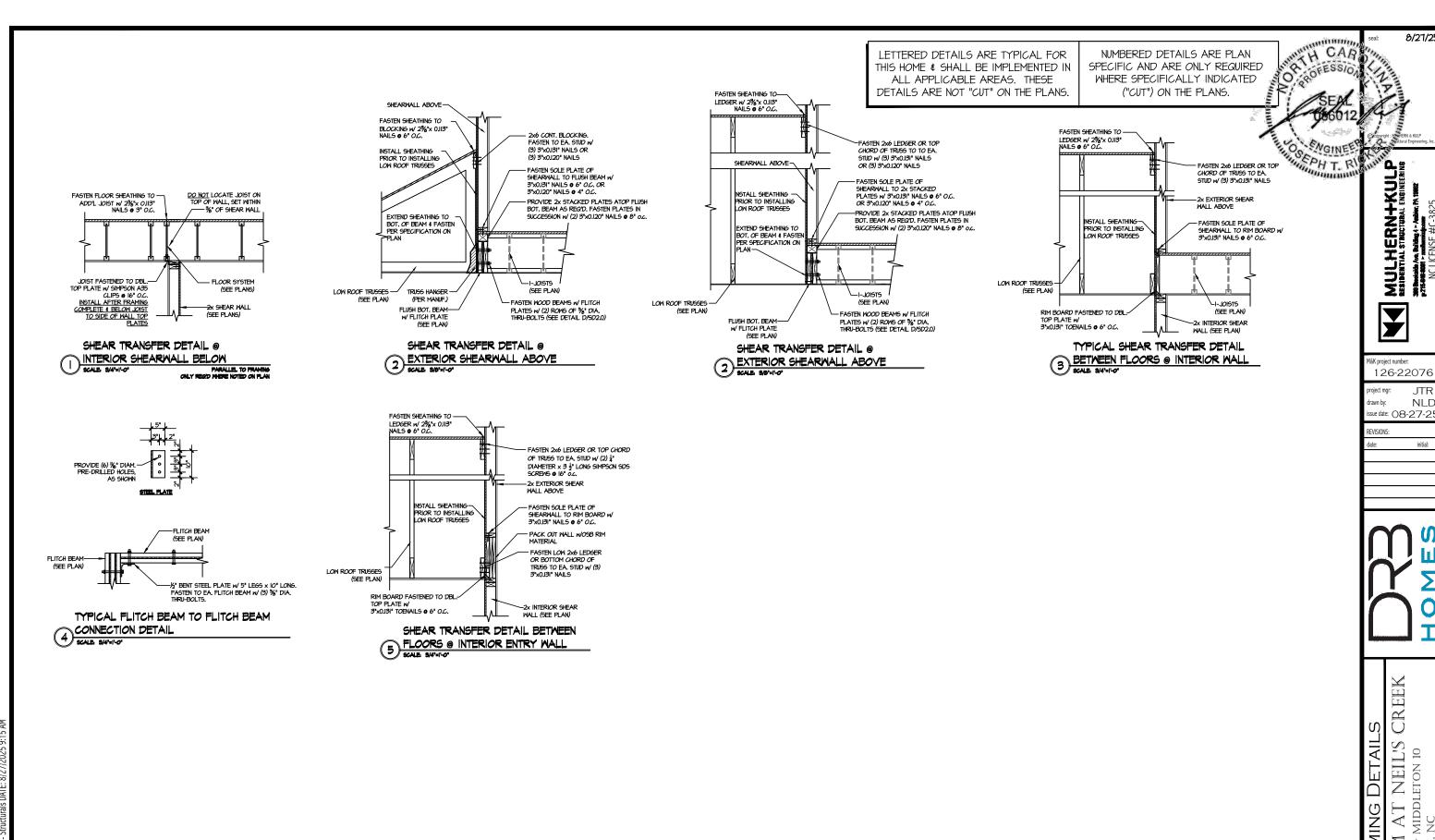
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NLC issue date: 08-27-2!

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S \bigcup 1 AT NEIL'S (
- MIDDLETON 10 DETAIL Ŋ FARM LOT 144 - M RALEIGH, N

SD2.1A



SD2.1B

FARM LOT 144 - N RALEIGH, N

JTR

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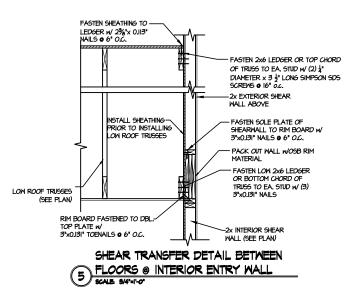
DO NOT LOCATE JOIST ON TOP OF WALL, SET WITHIN FASTEN FLOOR SHEATHING TO -ADD'L JOIST w/ 23/8"x 0.113" NAILS @ 3" O.C. JOIST FASTENED TO DBL—
TOP PLATE W SIMPSON A35
CLIPS ● 16' O.C.
INSTALL AFTER FRAMING
COMPLETE & BELON JOIST
TO SIDE OF MALL TOP
PLATES FLOOR SYSTEM (SEE PLANS) (SEE PLANS)

SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW

PARALLEL TO FRAMING ONLY REGID WHERE NOTED ON FLAN

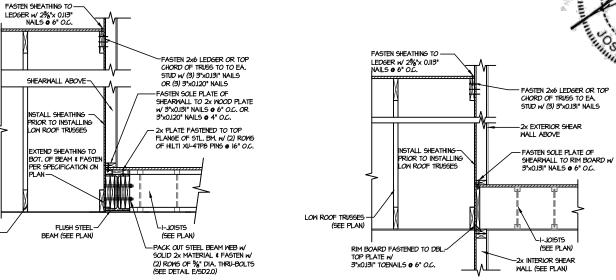
FASTEN SHEATHING TO -SHEARWALL ABOVE BLOCKING W/ 2%"x 0.120" NAILS @ 6" O.C. -2x6 CONT. BLOCKING. FASTEN TO EA, STUD w/ INSTALL SHEATHING -PRIOR TO INSTALLING LOW ROOF TRUSSES (3) 3"VO 131" NAIL S OR (3) 3"x0,120" NAILS FASTEN SOLE PLATE OF SHEARWALL TO 2X WOOD PLATE W/ 3"X0.131" NAILS @ 6" O.C. OR LOW ROOF TRUSSES-3"x0.120" NAILS @ 4" O.C. - 2x Plate Fastened to top FLANGE OF STL. BM. w/ (2) ROMS OF HILTI XU-47P8 PINS @ 16" O.C. EXTEND SHEATHING TO -BOT. OF BEAM & FASTEN TO PACK OUT PER SPECIFICATION ON PLAN TRUSS HANGER -(PER MANUF.) BEAM (SEE PLAN) (SEE PLAN) --PACK OUT STEEL BEAM WEB w/ SOLID 2x MATERIAL & FASTEN w/ (2) ROMS OF "%" DIA. THRU-BOLTS (SEE DETAIL E/SD2.0)

> SHEAR TRANSFER DETAIL @ 2 EXTERIOR SHEARWALL ABOVE



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.



SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE

(SEE PLAN)

TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

(SEE PLAN)

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M&K project number: 126-22076

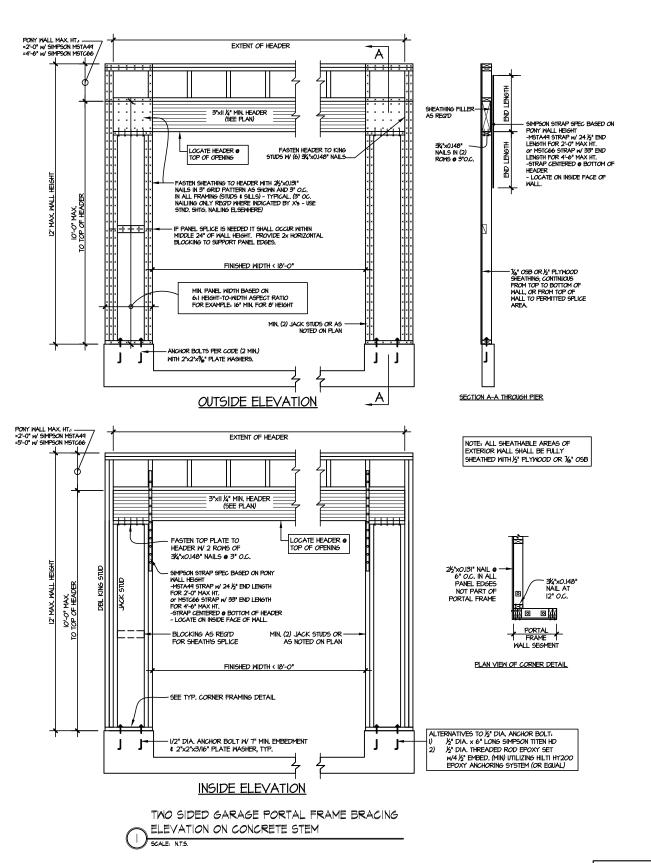
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 \bigcup 1 AT NEIL'S (MIDDLETON 10 NC FARM LOT 144 - N RALEIGH, N

SD2.1C



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. FRAMING DETAILS
FARM AT NEIL'S CRI
LOT 144 - MIDDLETON 10
RALEIGH, NC

8/27/25

MULHERN+KUL RESIDENTIAL STRUCTURAL ENGINEER SUBMARIA AN BAIRD 1- ANDAR PARSON \$755000001 per humanistan

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M&K project number: 126-22076

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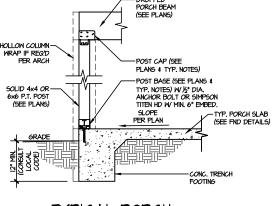
M&K project number: 126-22076

JTR NLD drawn by: issue date: 08-27-2

FARM AT NEIL'S CREEK
LOT 144 - MIDDLETON 10
RALEIGH, NC

SD3.0

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



TYPICAL PORCH
POST CONNECTION DETAIL
SCALE NONE SLAB ON GRADE SH SLAB ON GRADE SHOWN (SIM. @ CRANL & BSMT.)

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

DETAILS ARE NOT "CUT" ON THE PLANS.

