BURTON-RALE

RALEIGH - LOT 00.0089 THE FARM AT NEILL'S CREEK

(MODEL# 2491)

ELEVATION 3 - GR

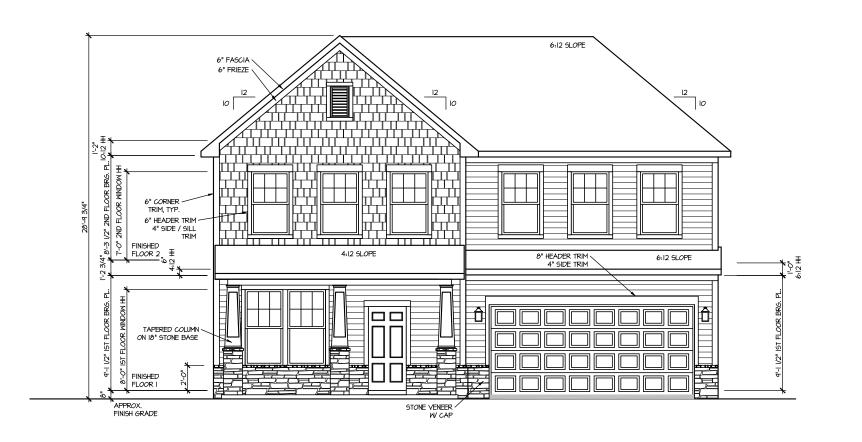
<u>INDEX</u>

103 HOMES

| AREA CALCULATIONS ELEVATION 3 FIRST FLOOR GARAGE FRONT PORCH - ELEVATION 3 SECOND FLOOR OPTIONS REAR PORCH | | HEATED 1079 SF 1412 SF | COVERED / UNHEATED 414 SF 116 SF +462 SF | UNCOVERED |
|---|-------|------------------------------|---|-----------|
| | TOTAL | 2491 SF | 992 SF | |
| | | | | |

57 WINDING CREEK DRIVE

| LOT | SPECIFIC | |
|----------|--------------|--|
| 1 | | THE FARM AT NEILL'S CREEK |
| | | BURTON REV. 1 ELEVATION 3 |
| 2 | ADDRESS | 57 WINDING CREEK DR LILLINGTON, NC 27546 |
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MASONRY PERCENTAGE:
OVERALL FRONT ELEVATION: 487 SF
MASONRY: 54 SF
PERCENTAGE OF MASONRY: II.1%

FRONT ELEVATION 3

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



REAR ELEVATION 3

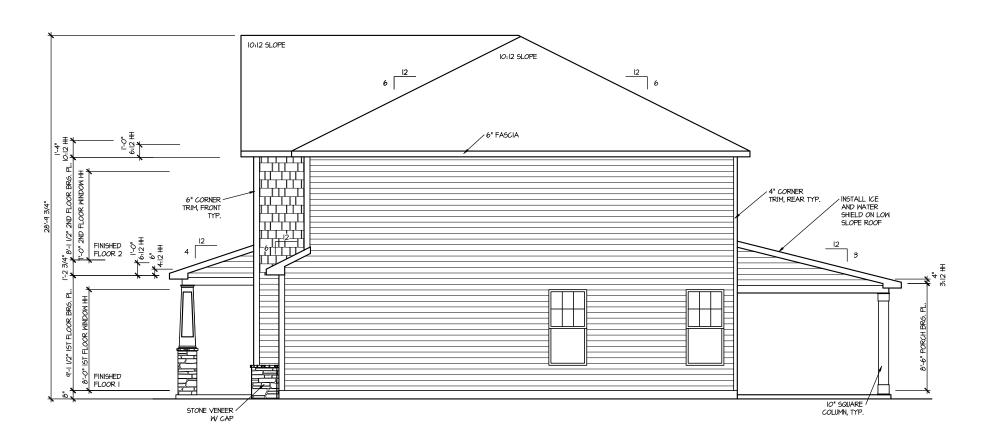
SCALE: 1/8" = 1'-0"



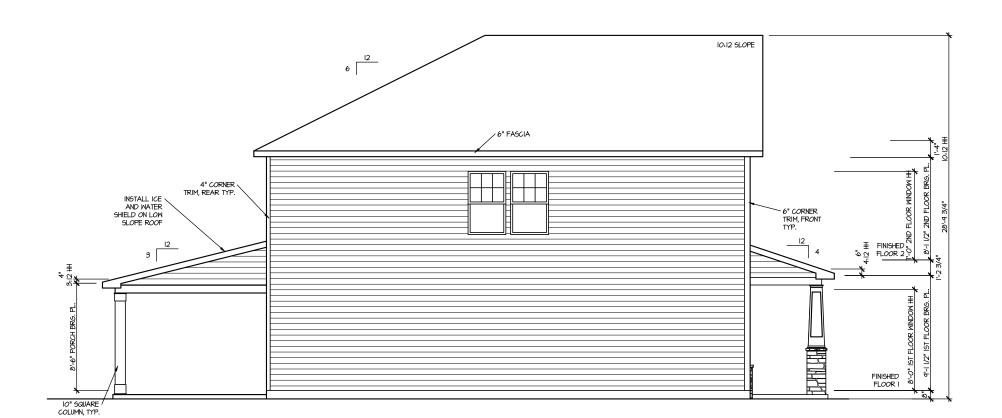
HOMES

FRONT & REAR ELEVATIONS

HOUSE NAME:
BURTON
DRAWING TITLE



RIGHT ELEVATION 3
SCALE: 1/8' = 1'-0'



LEFT ELEVATION 3



DATE: 12/20/2023 PLAN NO. 2491



RIGHT & LEFT ELEVATIONS HOUSE NAME:
BURTON
DRAWING TITLE

| UPPER ROOF VENTILATION CALCULATIONS:
| ROOF AREA = 1891 50. FT. |
| OFFALL REQUIRED VENTILATION. |
| OFFALL REQUIRED VENTILATION. |
| 10 00 | 10.95 60. FT. |
| 10 300 | 5.26 50. FT. |
| 10 300 | 5.26 50. FT. |
| 10 300 | 5.26 50. FT. |
| 10 300 | 10.95 60. FT. |

LOWER VENTING. (BOTTOM 2/3 RDS)

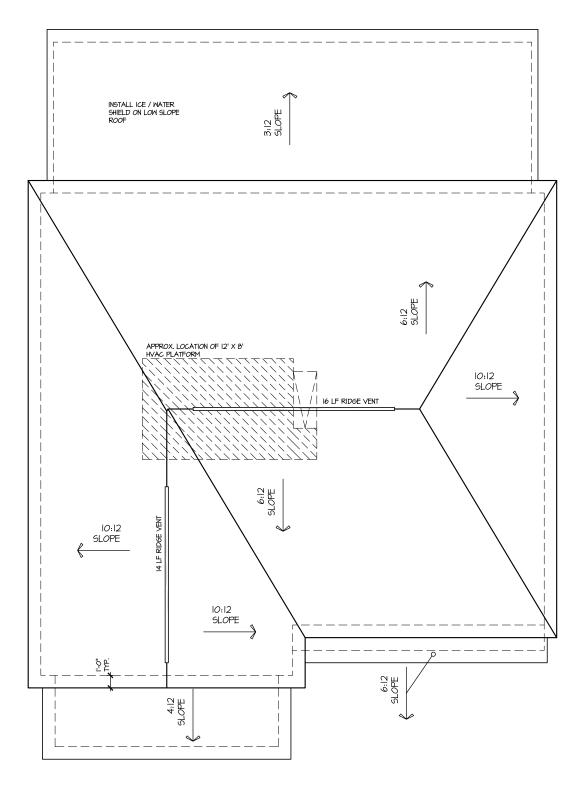
MO LINEAR FEET OF SOFFIT X 5.1 50, IN. = 5.54 Sq. FT.

UPER WINING. (IGP. 19.2 X 19.5 Sq. IN. = 3.75 Sq. FT.

3.1 Sq. FT. IEBER SQ. Sq. B. Sq. IN. = 3.75 Sq. FT.

3.1 Sq. FT. IEBER SQ. Sq. B. Sq. IN.

TOTAL ROOF VENTLATION 4.24 Sq. FT. > 5.24 Sq. FT. (Ra'D)



ROOF PLAN ELEV. 3

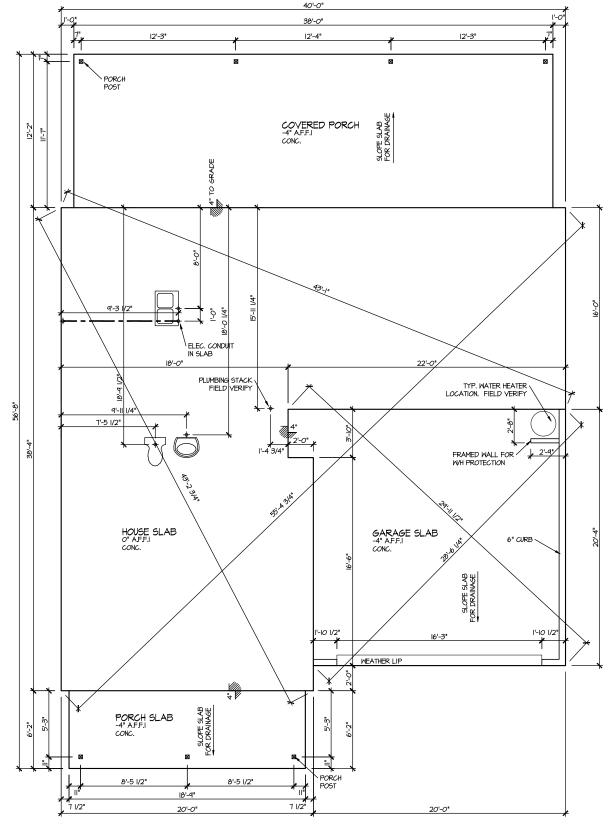
FILE: Lot 00.0089.dwg DATE: 12/20/2023 9:36 AM

HOUSE NAME:
BURTON
DRAWING TITLE
ROOF PLAN

DRAWN BY:

PLAN NO. 2491

DATE: 12/20/2023



ELEVATION 3 SLAB PLAN SCALE: 1/8" = 1'-0"

Lot 00.0089.dwg DATE: 12/20/2023 9:36 AM

MASTER PLAN INFORMATION

TEVISION DATE:

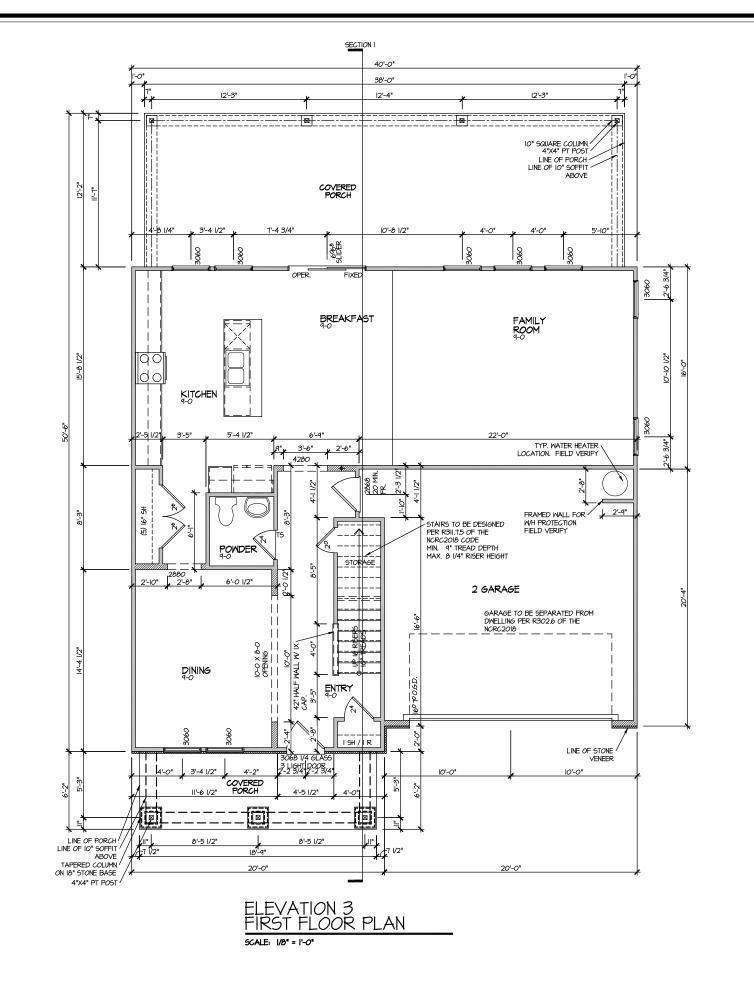
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BY A CAPACITY OF THE PLAN INFORMATION

TO STATE OF THE

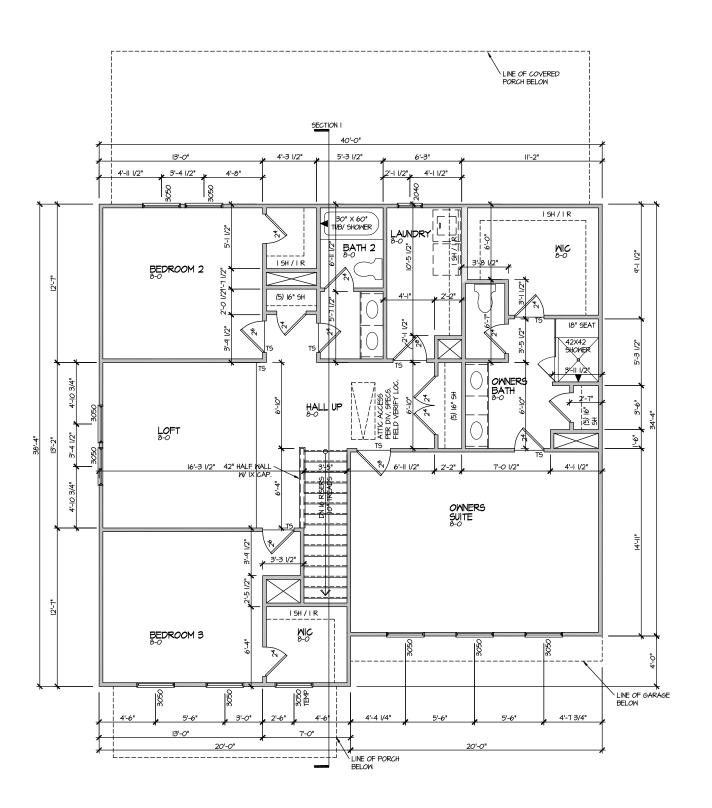


HOUSE NAME:
BURTON
DRAWING TITLE
SLAB PLAN



DRAWN BY:
ITS
DATE:
12/20/2023
PLAN NO.
2491

HOUSE NAME:
BURTON
DRAWING TITLE
FIRST FLOOR PLAN



ELEVATION 3 SECOND FLOOR PLAN SCALE, 1/8" = 1'-0"

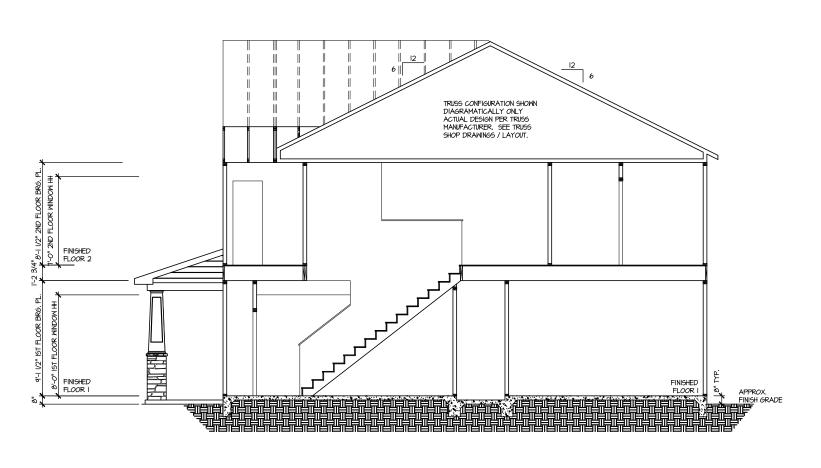
≣: Lot 00.0089.dwg DATE: 12/20/2023 9:36 AM

DATE: 12/20/2023

PLAN NO. 2491

HOUSE NAME:
BURTON
DRAWING TITLE
SECOND FLOOR PLAN

SHEET No. A3.2



<u>SECTION |</u> <u>SCALE: 1/8" = 1'-0"</u> | MASTER PLAN INFORMATION | MASTER PLAN INFORMATION | STATE | 10-26-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-2022 | 12-06-20

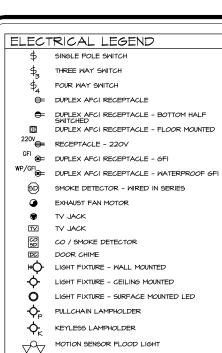


HOUSE NAME:

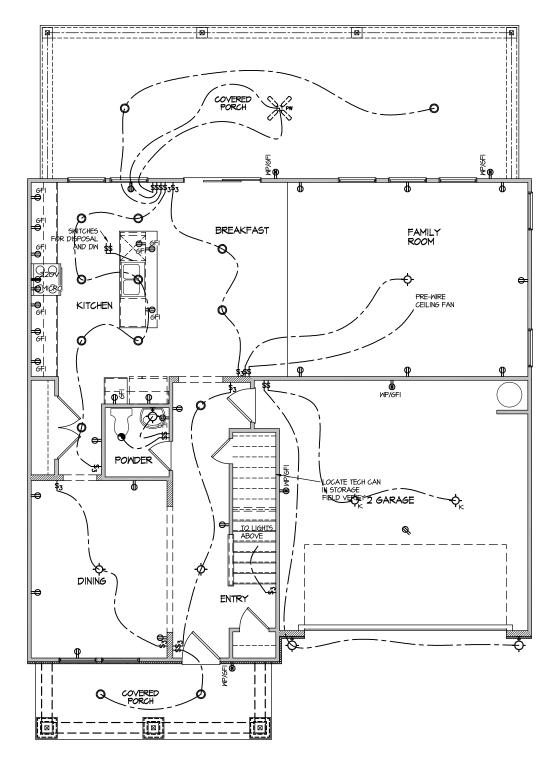
BURTON

DRAWING TITLE

BUILDING SECTION



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



ELECTRICAL PLAN FIRST FLOOR - ELEV. 3 SCALE: 1/8" = 1'-0"

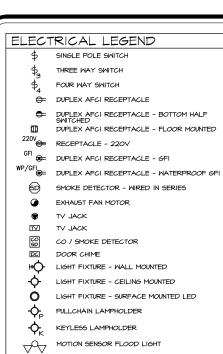
/ FILE: Lot 00.0089.dwg DATE: 12/20/2023 9:36 AM

HOUSE NAME:
BURTON
DRAWING TITLE
FIRST FLOOR ELECTRICAL

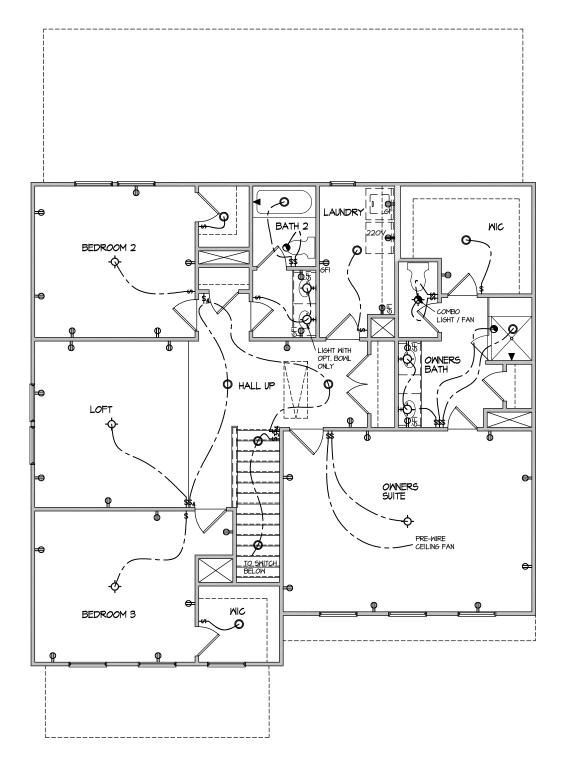
DRAWN BY:

DATE: 12/20/2023

PLAN NO. 2491



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



ELECTRICAL PLAN SECOND FLOOR - ELEV. 3 SCALE: 1/8" = 1'-0"

/ FILE: Lot 00.0089.dwg DATE: 12/20/2023 9:36 AM

HOUSE NAME:
BURTON

BRAWING TITLE

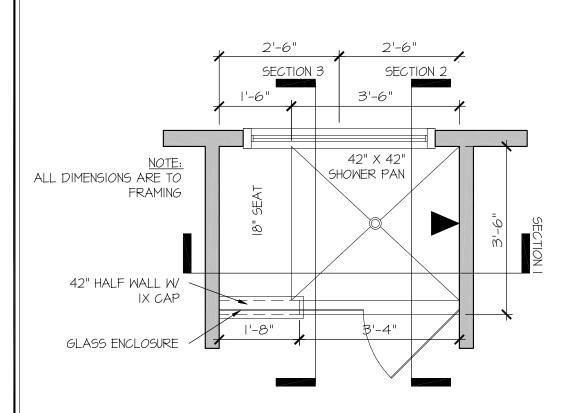
SECOND FLOOR ELECTRICAL

DRAWN BY:

PLAN NO. 2491

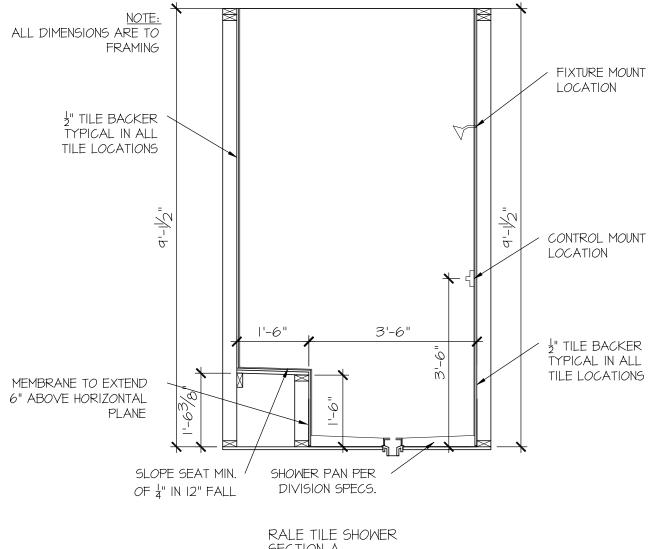
DATE: 12/20/2023

еет No. E1.2



RALE TILE SHOWER 42" X 42" W 18" SEAT

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



SECTION A

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

CONSULTANT LOGO

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

11 X 17 SCALE

24 X 36 SCALE



DETAIL SHOWER RALE



SEAL

DRAWN BY:
L. BEAVERS
DATE: 9/1/22

PLAN NO.

24 X 36 SCALE

~ "

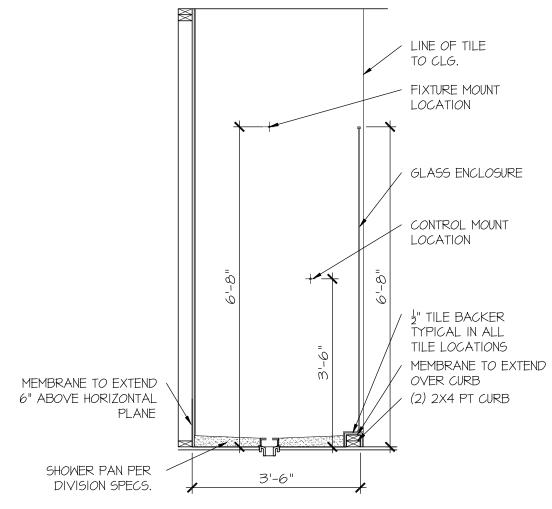


E ILE SHOWER DETAIL

OUSE NAME:

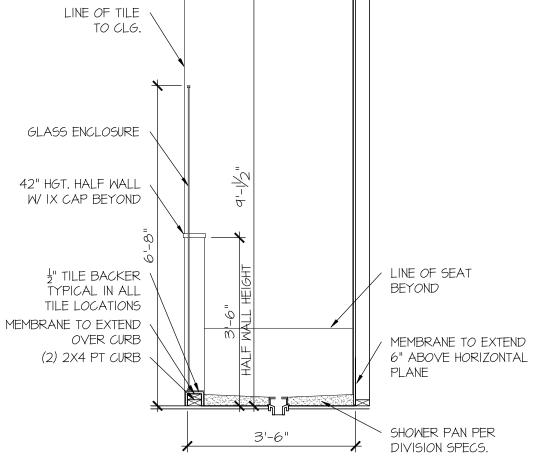
SHEET No.

P||.2



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





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

WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.

ROOF

DEAD = 7 PSF T.C., IO PSF B.C. LOAD DURATION FACTOR = 1.25

LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (1-JOISTS & SOLID SAWN) (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 DIAMETER AND LENGTH REQUIRED FOR CONNECTION. ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY, NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- REFER TO FASTENING SCHEDULE TABLE R602.3(1) FOR ALL CONNECTIONS, TYP, U.N.O.
- EXT. & INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS)
 I6" 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 (SPE) OR SOUTHERN PINE #2 (SYP) LUMBER, OR BETTER (KILN-DRIED). ALL HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED LOADS & SIZED ACCORDINGLY. CODE TABLES HAVE NOT BEEN USED.
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS SPACED @ 16" OC (MAX. UNO) . 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:
- "LSL" Fb=2325 psi: Fv=3I0 psi: E=L55xI0^6 psi • 'LVL' - Fb=2600 psi; Fv=285 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 OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO MH FOR STRUCTURAL REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.
- FOR 2 & 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3" \times 0.120" NAILS @ 8" O/C OR 2 ROWS %" \times 3%" SIMPSON SDS SCREWS (OR 3%" 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 NAIL S/SCREWS 2" FROM EDGE SOLID 3 K" OR 5 K BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 \$ 2x8 MEMBERS
- FOR 4 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF $\mbox{\it k}^{*}$ "x6" SIMPSON SDS SCREWS (OR 6 $\mbox{\it k}^{*}$ " 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 SCREWS 2" FROM EDGE. A SOLID 7" BEAM IS ACCEPTABLE.
- ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD & (1)2x KING STID MINIMIM
- THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, U.N.O., ALL MULTI-PLY STUDS TO BE FASTENED TOGETHER W/ 3"X0.131"
- NAILS @ 24" O.C. (MIN.), EACH PLY.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND./BEARING. BLOCKING TO MATCH POST ABOVE
- FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS WITH P.A.F.'s ('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 BCS2-2/4 CAP & ABM44Z BASE, U.N.O.

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

(3) TOENAILS

NAII S @ 24" a

OENAILS @ 8" o

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

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

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

DOUBLE TOP PLATE LAP SPLICE (9) NAILS IN LAPF

(ONLY ACCEPTABLE WHERE * ARE SHOWN)

JOIST TO SOLE PLATE

DOUBLE TOP PLATE

INTERSECTING WALLS

SOLE PLATE TO JOIST/BLK'S

TOP OR SOLE PLATE TO STU

FLOOR FRAMING

- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES MARBLE FLOORS - CONTACT M&K FOR MARBLE FLOOR DESIGNS AT I-JOIST FLOORS, PROVIDE I 1/8" MIN. OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR 24" O.C. EXPOSURE I (OR APPROVED EQUAL) WITH TONGUE AND
- GROOVE EDGES. FASTEN TO FRAMING MEMBERS W GLUE AND 2 ½" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES € @ 12"o.c. FIELD.
- 2 3 × 0.120 NAILS @ 4" O.C. @ PANEL EDGES \$ @ 8" O.C. FIELD.
- 2 3" × O II3" NAII S @ 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 FACH ROOF TRUSS TO TOP PLATE W/ SIMPSON H2.5T CLIP (OR APPROVED EQUAL) • ALL BEARING POINTS. PROVIDE (2) H2.51 CLIPS AT 2-PLY GIRDER TRUSSES (3) H25T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.C
- 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 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS
- W 2 ½" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES \$ @ 12" O.C. FIELD. - w/ 2 🖁 × 0.120" NAILS • 4"o.c. • PANEL EDGES \$ • 8" O.C. FIELD.

(CENTER STRAP ON FLOOR SYSTEM LINO.)

HD-3 SIMPSON STHDI4/I4RJ HOLD-DOWN

ALTERNATIVE TO SSTB24 ANCHOR BOLT SPECIFICATION

LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF FOUNDATION

SD2. | REFERS TO SD2. | A FOR

LVL/PSL/LSL BEAMS OR SD2.IB

FOR FLITCH BEAMS OR SD2.IC

FOR STEEL BEAMS

DIA. THREADED ROD INTO CONCRETE FOUNDATION.

INSTALL PER MANUF, RECOMMENDATIONS, DO NOT

PROVIDE 12" MIN. EMBEDMENT INTO CONCRETE.

UTILIZE SIMPSON "SET" EPOXY SYSTEM TO FASTEN 3/8

(PRE-BENT MSTC66 ALT. WHEN SPECIFIED)

SYMBOL

HD-I

→ HD-2

3"x0.120" NAILS

(3) TOENAILS*

(3) TOFNAIL S*

NAILS @ 16" o

NAII 5 @ 16" 00

(3) NAILS @ 4" o.c 3) TOENAILS*

(3) NAILS TOENAILS **©** 6" O.C

(II) NAILS IN LAPPED ARE

· W/ 2 🖁 × 0.113" NAILS 🛭 3"O.C. 🗗 PANEL EDGES 🛭 🗗 O.C. FIELD.

HOLD-DOWN SCHEDULE SPECIFICATION SIMPSON HTT4 HOLD-DOWN SIMPSON MSTC66 STRAP TI

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 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
- DESIGN ASSUMES 16" O.C MAX. STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY

OR 3" O.C. OSB SHEARWALL

INDICATES HOLDOWN BELOW

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: O 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 R30113 OF THE 2018 NCSBC-RC OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.12 COMPLY. CCORDINGLY, 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. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R60235& R80211

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 ¾"x0.II3" NAILS @ 6" O.C. AT EDGES & @ I2" O.C. IN THE PANEL FIELD. TYP, U.N.O.
- HORIZONTAL BLOCKING OF EXT. WALL/SHEAR WALL PANEL EDGES IS NOT REQUIRED BY THIS DESIGN EXCEPT FOR THOSE AREAS SPECIFICALLY NOTED.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.
- ALT. STAPLE CONNECTION SPEC: 1/5" 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 3/8" x 0.113" NAILS @ 6" O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR 1 3/4" 16 GA STAPLES (1/6" 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

NOTES

- ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
- APPLIED TO STUD FRAMING
- PRE-MANUFACTURED PANELIZED WALLS: FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT. OSB SHEARWALL

VENEER LINTEL SCHEDULE

| (MAX) | ABOVE LINTEL | STEEL FROLE SILE |
|--------|--------------|------------------|
| 3'-0" | 20 FT. MAX | L3"x3"x/4" |
| | 3 FT. MAX | L3"x3"x/4" |
| 6'-0" | I2 FT. MAX | L4"x3"x/4" |
| | 20 FT. MAX | L5"x3½"x¾" |
| 8'-0" | 3 FT. MAX | L4"x4"x/4" * |
| 0-0 | I2 FT. MAX | L5"x3½"x¾" |
| | I6 FT. MAX | L6"x3½"x¾" |
| 9'-6" | I2 FT. MAX | L6"x3½"x%;" |
| 16'-0" | 2 FT. MAX | L7"x4"x½" ** |
| | 3 FT. MAX | L8"x4"x½" ** |

SUPPORT 2 %" - 3 ½" VENEER W 40 psf MAXIMUM WEIGHT. ALL HAVE 4" MIN. BEARING

HEIGHT OF VENEER

JOYALL SUFFLIKE (2 76 - 3 76 VEREEN W 40 PER PANISHEN PERSHI).

19 SHALL HAVE PHINL EEARING

19 SHALL HAVE PHINL EEARING

19 SHALL BY THE PROFIDED BACK TO HEADER.

10 SHALL BE FASTIBLED TO AND TO HEADER IN HALL \$48900. W/S DIA x 3 5/4

MAY WHERE HAVE PROFIDED TO AND TO STORY THE ART TO STORY THE OFFINIS.

14 LL INITED SHALL BE LONG LES VERTICAL.

14 LL INITED SHALL BE LONG LES VERTICAL.

16 SHOPKITHS WHERE (3 PHIN THE ENTITION OF THE HORIZONTAL LES HAVE SHAPPORTING MORTER AUTHORITIES TO ALLO FROM KORTAR AUTHORISHES.

16 TO ALLOH FOR MORTAR AUTH THISMING.

16 STORLICH ALLO FOR THE MORTER SHAPPENDING.

16 STORLICH FALL PANIS FOR ANY LINTEL CONDITION NOT BICOPASSED BY THE 6000PC PRAVABLEST.

R GUEEN VENEER USE L4x9%*. OR 9½" VENEER ONLY, SEE PLAN FOR VENEER SUPPORT IF VENEER < 9½" THICK,

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.

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 |
| | | |

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

GENERAL STRUCTURAL NOTES

FOUNDATION

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
- FOOTING DESIGN 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY
- FASTEN 2x4/6 SILL PLATES TO FND WITH A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAX. FROM PLATE ENDS - UTILIZING:
- (CONC), 15" MIN. EMBEDMENT (CMU)
- SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C. (CONC)
- SIMPSON MAB23 ANCHOR STRAPS 2'-8" O.C. (CMU) (REFER TO DETAILS FOR 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 VERIEY 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 60.000 psi
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
- 9' OR 10' HEIGHT (AS NOTED ON PLAN - TALLER WALLS MUST BE ENGINEERED
- NOMINAL WIDTH (9 ½" FOR 10" THICK WALL).
- BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYP! 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 BOMT END 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.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
 - 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:1.5 RATIO · 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 PT PLATE ON TOP OF ALL CRAWL 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 VERIEY 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

THE STRUCTURE IS DESIGNED TO BE SELF

FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT.

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

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

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

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

A. ROOF TRUSSES: I/4" DEAD LOAD

FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS: I/8" DEAD LOAD FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO

FLOOR FRAMING BY OTHERS: LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAL LOAD. (NOT DIFFERENTIAL DEFLECTION)

MEANS & METHODS NOTES

1&K project numbe 126-22076 **JTR** rawn by:

ERNH

H CAR

SESSIO

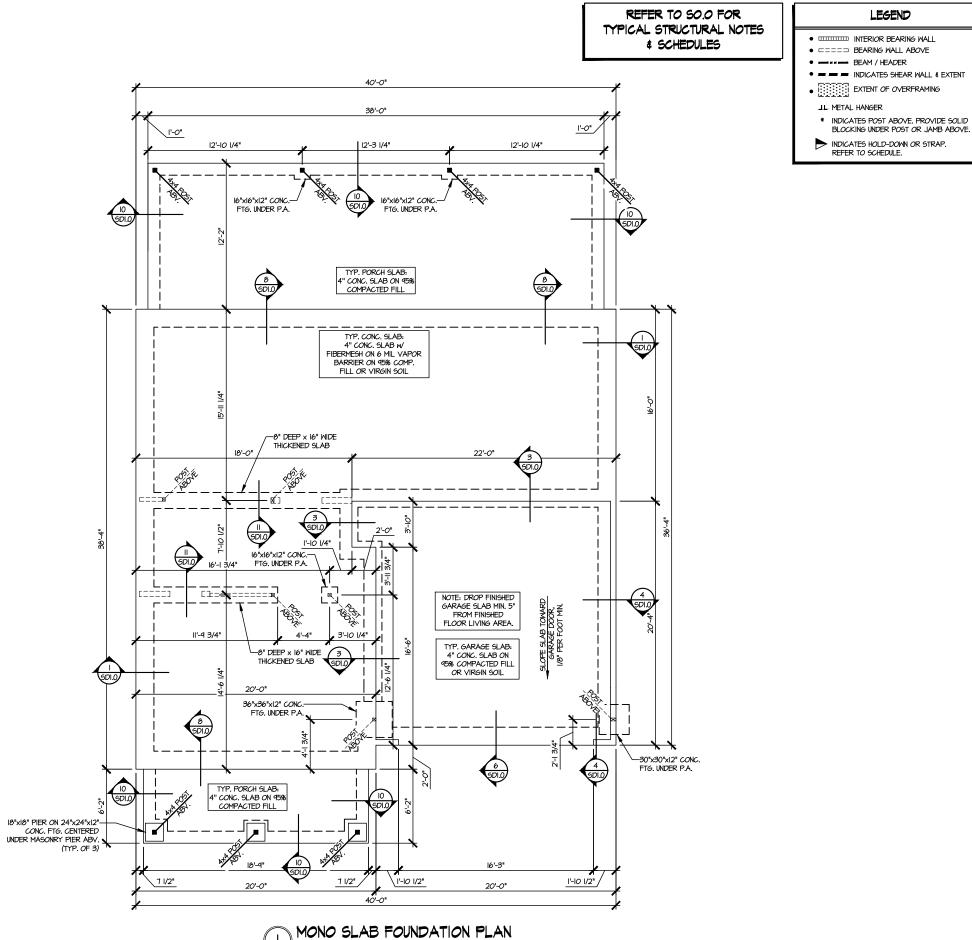
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sue date: 12-21-23

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I A] BURT RM 89 LO



1/3/24 H CAR SEPH T. RI

MUCHERN+KULP

RESIDENTIAL STRUCTURAL ENGINEERING



126-22076

JTR drawn by: issue date: 12-21-23

REVISIONS:

initial:



CREEK **OUNDATION PLANS** FARM AT NEIL'S LOT 89 - BURTON 3 RALEIGH, NC

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

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

LEGEND

- 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.

1/3/24 H CAR

MUCHERN+KULP

RESIDENTIAL STRUCTURAL ENGINEERING Y

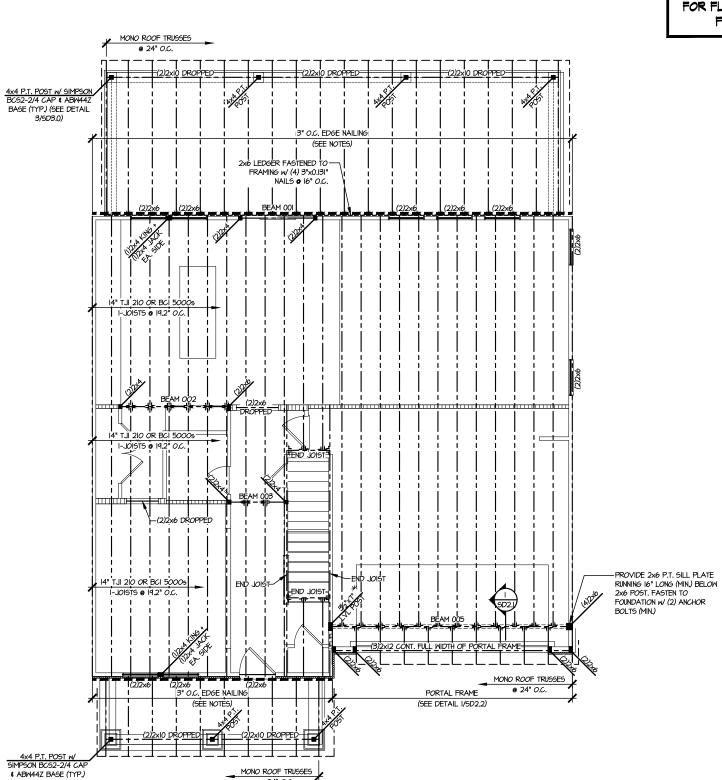
M&K project number 126-22076

JTR drawn by: issue date: 12-21-23

> REVISIONS: initial:

PLANS CREEK RAMING

FARM AT NEIL'S Lot 89 - Burton 3 raleigh, nc OOR



| | ENGINEERED BEAM MATERIAL SCHEDULE | | | | | |
|----------------|--|--------------|-------------------|---|--------------|--|
| BEAM NUMBER | LVL OPTION | PSL OPTION | LSL OPTION | FLITCH OPTION | STEEL OPTION | |
| 001 | (2)134"×914" - H | 3½"x9¼" - H | (2)134"x9½" - H | (2)2xl0 + (I) ¼"x4¼" STEEL FLITCH PLATES - H | MØxIO − H | |
| 002 | (2)1 ³ / ₄ "x14" - F | 3½"x14" - F | (2)13/4"x14" - F | (2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - FB | WI2xI4 - F | |
| 002A | (2)134"×14" - F | 3½"x14" - F | (2)13/4"×14" - F | (2)2xl2 + (l) %"xll4" STEEL FLITCH PLATES - FB | WI2xI4 - F | |
| 003 | (2)134"×14" - F | 3½"x14" - F | (2)19/4"x14" - F | (2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - FB | WI2xI4 - F | |
| 003A | (2)134"×14" - F | 3½"x14" - F | (2)19/4"x14" - F | (2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - FB | WI2xI4 - F | |
| 004 | (2)134"x914" - H | 3½"×9¼" - H | (2)134"×9½" - H | (2)2x10 + (1) ¼"x4¼" STEEL FLITCH PLATES - H | WØxIO − H | |
| 005 | (4)13/4"x18" - FT | 7"xl8" - FT | N/A | (4)2xl2 + (3) %"xll4" STEEL FLITCH PLATES - FB | WI2x30 - F | |
| 006 | (2)134"×14" - F | 3½"x14" - F | (2)19/4"x14" - F | (2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - FB | WI2xI4 - F | |
| 001 | (2)134"×14" - F | 3½"x14" - F | (2)19/4"×14" - F | (2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - FB | WI2xI4 - F | |
| 000 | (2)134"×914" - H | 3½"×9¼" - H | (2)134"×91/2" - H | (2)2x10 + (1) ¼"xq¼" STEEL FLITCH PLATES - H | MØxIO − H | |
| 009 | (2)1 ³ / ₄ "x14" - F | 3½"x14" - F | (2)13/4"x14" - F | (2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - FB | WI2xI4 - F | |
| AP00 | (2)134"×14" - F | 3½"x14" - F | (2)13/4"x14" - F | (2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - FB | WI2xI4 - F | |
| 010 | (2)134"×14" - F | 3½"x14" - F | (2)19/4"x14" - F | (2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - FB | WI2xI4 - F | |
| 010A | (2)134"×14" - F | 3½"x14" - F | (2)13/4"x14" - F | (2)2xl2 + (l) %"xll以" STEEL FLITCH PLATES - FB | WI2xI4 - F | |
| OII | (2)134"×944" - H | 3½"×9¼" - H | (2)134"×9½" - H | (2)2xl0 + (I) ¼"x4¼" STEEL FLITCH PLATES - H | MØxIO − H | |
| 012 | (3)1¾"x11½" - D | 5¼"xII%" - D | N/A | (2)2xl2 + (l) %"xll4" STEEL FLITCH PLATE - D | WI0xI2 - D | |

PLATES IN SUCCESSION w/ (2) 3"x0.120" NAILS . 8" O.C.

- BEAM NOTATION:

 "F" INDICATES FLUSH BEAM

 "F" INDICATES FLUSH BOTTOM BEAM

 "F" INDICATES FLUSH BOTTOM BEAM

 "D" INDICATES DROPPED BEAM

 "H" INDICATES DROPPED BEAM

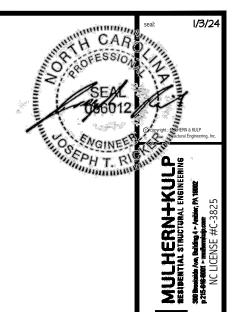
 "H" INDICATES DROPPED OPENING HEADER
 REFER TO DETAIL D'SOZO FOR TYPICAL FLITCH BEAM CONNECTIONS
 REFER TO DETAIL D'SOZO FOR TYPICAL STEEL BEAM CONNECTIONS
 FOR FLUSH TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN
 PLATES IN SICKZESGION W/O 3 "NOLO" NAILS O 8" O.C. PLATES IN SUCCESSION W (2) 3"X0.120" NAILS @ 0" O.C.
 FOR FLUSH BOTTOM BEAMS PROVIDE 2x STACKED PLATES ATOP BEAM AS REQ'D, FASTEN

@ 24" O.C.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES # SCHEDULES

LEGEND

- IIIIIII 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.





M&K project number: 126-22076

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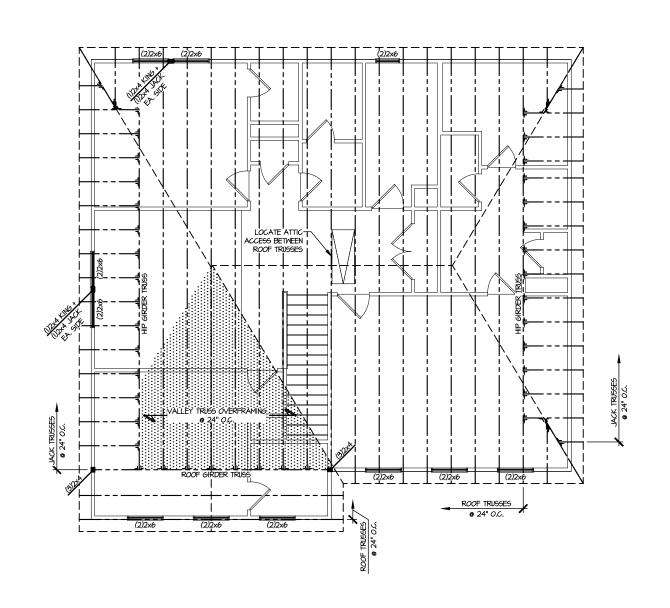
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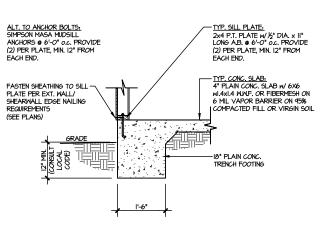
CREEK

FARM AT NEIL'S (LOT 89 - BURTON 3

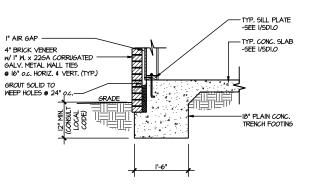
S3.0



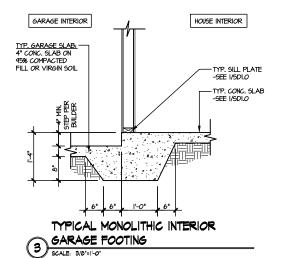




TYPICAL SLAB ON GRADE PERIMETER FOOTING

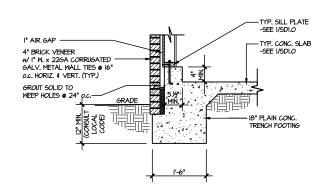


TYPICAL SLAB ON GRADE PERIMETER FOOTING w/ BRICK VENEER

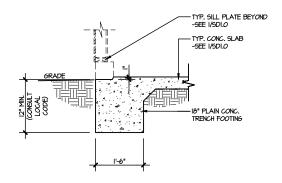


-TYP. SILL PLATE -SEE I/SDI.O FASTEN SHEATHING TO SILL PLATE PER EXT. WALL/ -SEE I/SDI.0 SHEARWALL EDGE NAILING REQUIREMENTS 18" PLAIN CONC. TRENCH FOOTING

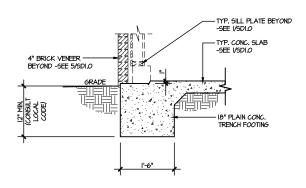
> TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING



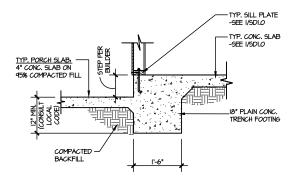
TYPICAL SLAB ON GRADE GARAGE 5 PERIMETER FOOTING w/ BRICK VENEER



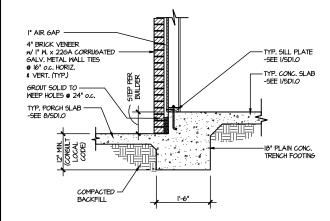
TYPICAL SLAB ON GRADE GARAGE 6 ENTRY @ PERIMETER FOOTING



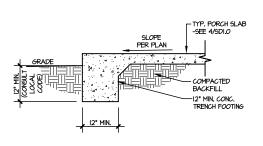
TYPICAL SLAB ON GRADE GARAGE TENTRY @ PERIMETER FOOTING



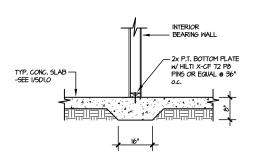
TYPICAL SLAB ON GRADE PERIMETER 8 FOOTING @ PORCH/PATIO



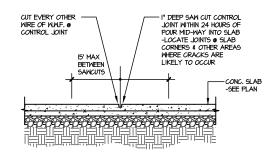
TYPICAL SLAB ON GRADE PERIMETER



TYPICAL FOOTING @ PORCH SLAB



TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL



TYPICAL CONTROL JOINT

SCALE: 8/8'=1'-0' LOCATE ® 15'-O" o.c. MAX. OR CORNERS WHERE CRACKS LIKELY TO DEVELOP

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

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

1 AT NEIL! BURTON 3 ARM LOT 89 - B RALEIGH, 1

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M&K project number: 126-22076

ssue date: 12-21-23

drawn by:

REVISIONS:

JTR

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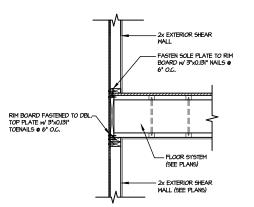
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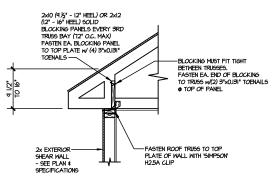
TYPICAL SHEAR

TRANSFER DETAIL @ ROOF

SCALE: 3/8"=1"-0" HEEL HEIGHT LESS THAN HEEL HEIGHT LESS THAN 9½" NO BLOCKING REQ'D



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
SCALE: 3/6"=1"-0"



TYPICAL SHEAR

2x WOOD BEAM-

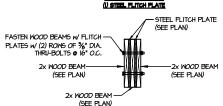
(SEE PLAN)

TRANSFER DETAIL @ ROOF
SCALE: 3/8"=1"-0" HEEL HEIGHT BETWEEN 9 1/2 HEEL HEIGHT BETWEEN 9½" - 16" BLOCKING REQ'D



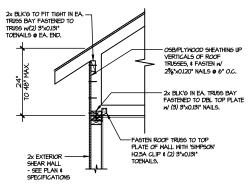
-2x WOOD BEAM

(SEE PLAN)



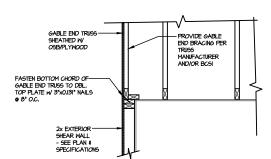
S-FLY OR MORE WOOD BEAM IN/ (2 OR MORE) STEEL FLITCH PLATES

TYPICAL FLITCH BEAM CONNECTION DETAIL SCALE 344-1-67



TYPICAL SHEAR TRANSFER

DETAIL @ RAISED HEEL TRUSS



TYPICAL GABLE END DETAIL SCALE: 3/8"=1"-0"

MULHERN+KULP Y

-2x PLATE FASTENED TO TOP PACK OUT STEEL BEAM WEB W/SOLID 2x MATTERIAL & FASTEN W/ (2) ROMS OF %" DIA.
THRU-BOLTS @ 16" O.C. FLANGE OF STL. BM. w/ (2) ROWS OF HILTI XU-47P8 PINS @ 16" o.c. -2x PLATE FASTENED TO TOP FLANGE OF STL. BM. w/ (2) ROWS OF HILTI XU-47P8 PINS @ 16" O.C.

TYPICAL STEEL BEAM CONNECTION DETAIL SCALE SIGNIFOR

M&K project number

drawn by:

REVISIONS:

126-22076

issue date: 12-21-23

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initial:

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 \mathbb{Z} \bigcup DETAILS FARM AT NEIL'S (LOT 89 - BURTON 3
RALEIGH, NC

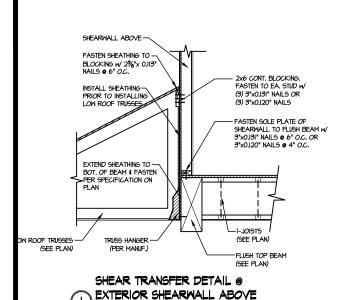
NUMBERED DETAILS ARE PLAN SPECIFIC AND ARE ONLY REQUIRED WHERE SPECIFICALLY INDICATED

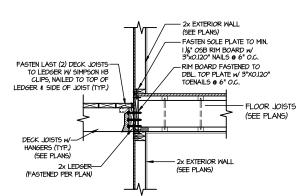
("CUT") ON THE PLANS.

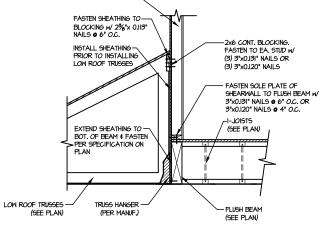
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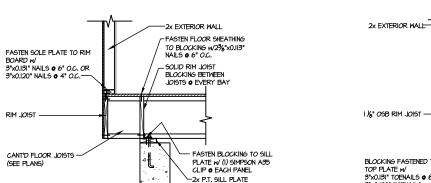
SHEARWALL ABOVE-

SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE SCALE \$44-1-0"

-FASTEN SOLE PLATE OF SHEARWALL THRU FLOOR SHEATHING TO OSB RIM

w/ 3"x0.131" NAILS @ 6" O.C. OR

3"x0.120" NAILS @ 4" O.C.



(SEE FND. DETAILS)

FASTEN FLOOR SHEATHING
TO OSB BLOCKING W

2% OJBY NALLS • 6" O.C.

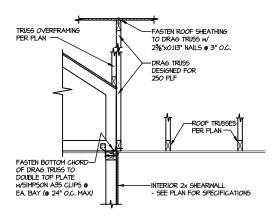
I/6" OSB SOLID
BLOCKING BETWEEN
JOISTS • EVERY BAY

BLOCKING FASTENED TO DBL

CANTO I-JOISTS
(SEE PLAN)

S'XOJ30" TOENAILS • 6" O.C. OR
3"XOJ20" TOENAILS • 4" O.C.

2x EXTERIOR WALL
(SEF PLAN)



SHEAR TRANSFER DETAIL

AT INTERIOR SHEARWALL BELOW

SHEAR TRANSFER DETAIL @

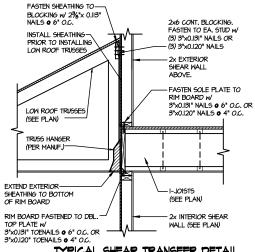
CANT'D EXTERIOR WALL

SCALE \$44-1-0"

SHEAR TRANSFER DETAIL BETWEEN

5 FLOORS @ CANT'D EXT. WALL

5 SCALE SATION FRANKS



TYPICAL SHEAR TRANSFER DETAIL

BETWEEN FLOORS @ INTERIOR WALL

SCALE 944-1-0*

t.H - Neil's Creek - Lot 89 - Structurals DATE: 1/3/2024 12:00 PM

FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 89 - BURTON 3
RALEIGH, NC

1/3/24

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

Y

M&K project number: 126-22076

drawn by:

REVISIONS:

JTR

SJF

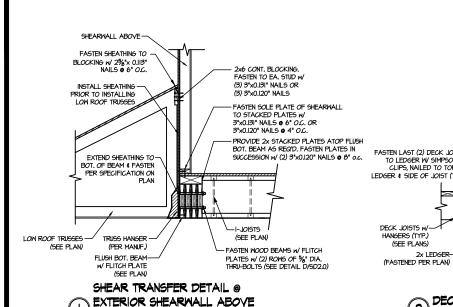
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issue date: 12-21-23

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SEPH T. R

SD2.1A

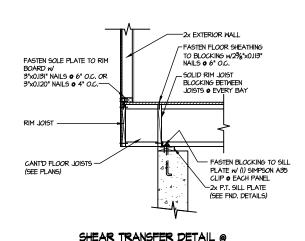


FASTEN SHEATHING TO BLOCKING w/ 2%"x 0.113" NAILS @ 6" O.C. - 2x6 CONT. BLOCKING. FASTEN TO EA. STUD w/ (3) 3"x0.131" NAILS OR (3) 3"x0.120" NAILS INSTALL SHEATHING PRIOR TO INSTALLING LOW ROOF TRUSSES - FASTEN SOLE PLATE OF SHEARWALL TO STACKED PLATES W - 2x EXTERIOR WALL 3"x0.131" NAIL5 @ 6" O.C. OR 3"x0.120" - FASTEN SOLE PLATE TO MIN. - PROVIDE 2x STACKED PLATES ATOP FLUSH BOT. BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION w/ (2) 3"x0.120" NAILS @ 8" o.c. FASTEN LAST (2) DECK JOISTS-RIM BOARD FASTENED TO EXTEND SHEATHING TO-DBL. TOP PLATE W/ 3"XO.120" TOENAILS @ 6" O.C. TO LEDGER W SIMPSON H3 CLIPS, NAILED TO TOP OF BOT. OF BEAM & FASTEN
PER SPECIFICATION ON
PLAN LEDGER & SIDE OF JOIST (TYP.) FLOOR JOISTS (SEE PLANS) -I-J0ISTS LOW ROOF TRUSSES -TRUSS HANGER -(PER MANUF.) - 2x EXTERIOR WALL - FASTEN WOOD BEAMS W/ FLITCH (SEE PLANS) FLUSH BOT. BEAM-PLATES w/ (2) ROMS OF %" DIA. THRU-BOLTS (SEE DETAIL D/SD2.0) w/ FLITCH PLATE (SEE PLAN)

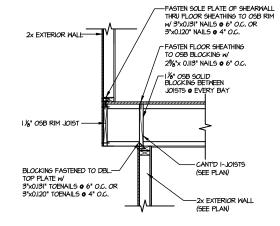
DECK LEDGER CONNECTION DETAIL

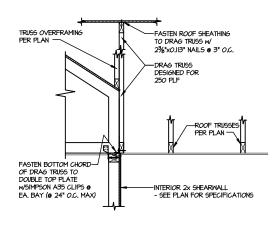
SCALE 9/4"=1"-0"

SHEAR TRANSFER DETAIL @
EXTERIOR SHEARWALL ABOVE
SCALE \$49**-10"



CANT'D EXTERIOR WALL





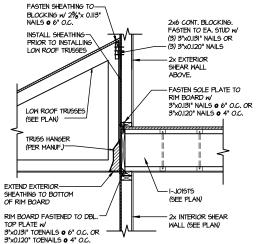
SHEAR TRANSFER DETAIL BETWEEN

5 FLOORS @ CANT'D EXT. WALL

SHEAR TRANSFER DETAIL

AT INTERIOR SHEARWALL BELOW

6 SCALE BUSYLOGY



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

. DIH Noille Crack 1 of 80 Structurale DATE: 1/2/2027 12:00 DM

FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 89 - BURTON 3
RALEIGH, NC

1/3/24

MULHERN+KU

Y

M&K project number: 126-22076

frawn by:

REVISIONS:

JTR

SJF

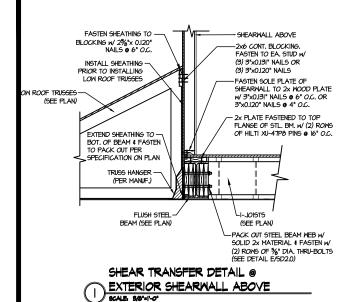
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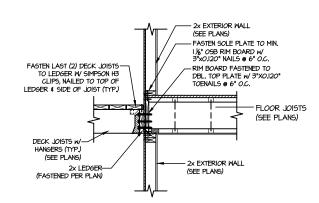
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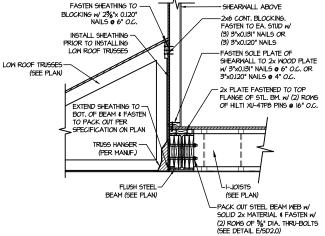
SD2.1B



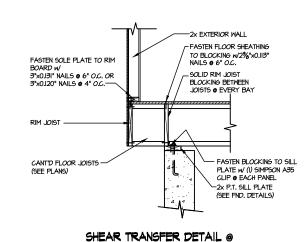


DECK LEDGER CONNECTION DETAIL

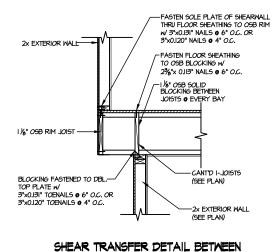
SCALE 9/4"-1"-0"



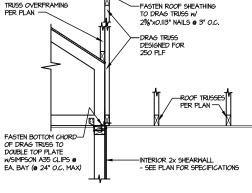
SHEAR TRANSFER DETAIL @ 3 EXTERIOR SHEARWALL ABOVE



4 CANT'D EXTERIOR MALL



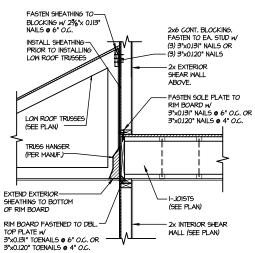
5 FLOORS @ CANT'D EXT. WALL



SHEAR TRANSFER DETAIL AT INTERIOR SHEARWALL BELOW

TRUSS OVERFRAMING -FASTEN ROOF SHEATHING

(SEE PLAN) - 2x INTERIOR SHEAR WALL (SEE PLAN) TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



U DETAILS \sim 1 AT NEIL: BURTON 3 FARM LOT 89 - BU RALEIGH, N

1/3/24

MULHERN+KU

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M&K project number 126-22076

frawn by:

REVISIONS:

JTR

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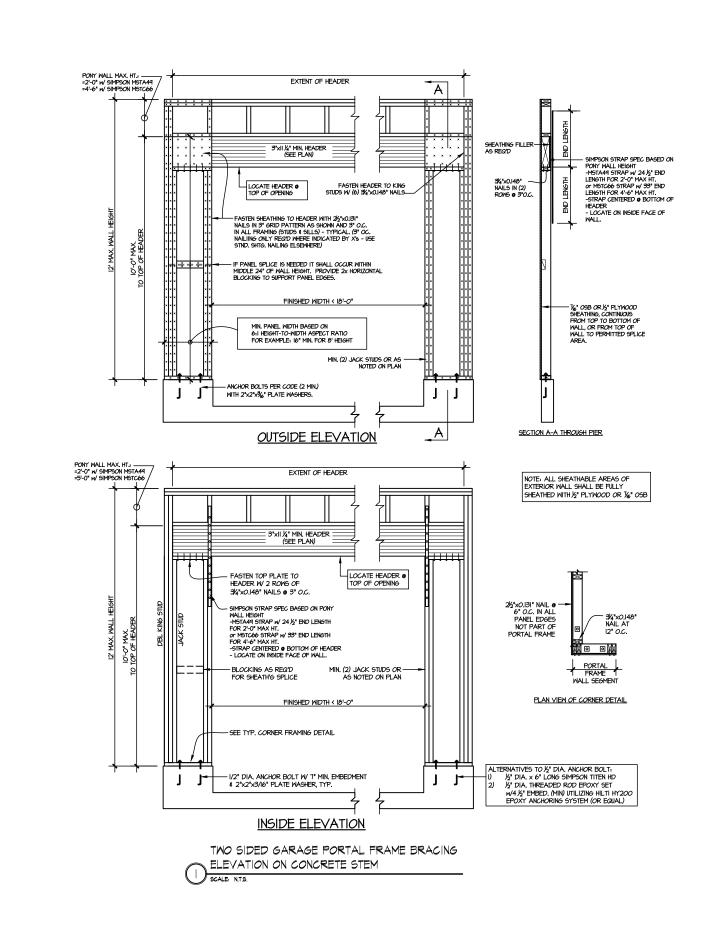
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MUCHERNA+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
SUBmobiate As Balding 4 Analys, PA 19002
575-568-9011 - Insulanding page

M&K project number: 126-22076

project mgr: JTR drawn by: SJF issue date: 12-21-23

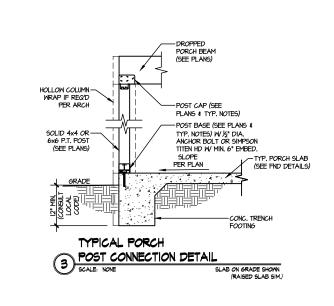
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FRAMING DETAILS
FARM AT NEIL'S CREEK
LOT 89 - BURTON 3
RALEIGH, NC

SD2.2



1/3/24

MUCHERN+KULP RESIDENTAL STRUCTURAL ENGINEERING STRUCTURAL ENGINEERING **y**



M&K project number: 126-22076

project mgr: JTR drawn by: SJF issue date: 12-21-23



FARM AT NEIL'S CREEK
LOT 89 - BURTON 3
RALEIGH, NC

SD3.0

General Notes:

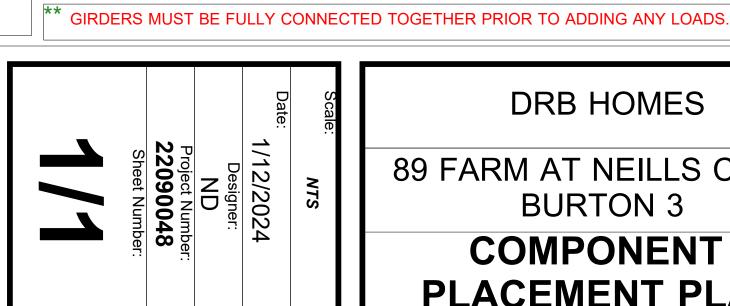
** CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER

FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION.

** ALL BEARING POINT

S MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS

Drawing Left nd Indicator





89 FARM AT NEILLS CREEK

COMPONENT **PLACEMENT PLAN**



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Madison, WI 53179

Drive: Madison, WI 53179

00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 Name Name Name Name Name

5' 3" 38' 4" 11' 7" 1' 6 1/2" J01 J01 J01 J01 J01 J01 J01 D02 CQ COS PBO₂ D01 ΩĪ B01 1' 11 1/4" O<u>"</u> Q J05 O<u>l</u> C01 A07 1' 11 1/4" O_I D01 C01 1' 11 3/4" 2' 0 1/4 HTU26 A05A 2' 0" C01 A04A Q C01 D01 A03 ****5 8 **Y**3 Q Q C01 D01 A03 ſν Q O<u>l</u> Q C01 D01 <u></u>√2 Q O<u>l</u> Q C01 A03 2' 0" Q C01 1' 6 1/2" 40' 0" 36' 10" Q C01 A02 Q C01 Q Q C01 Q Q C01 ĺν Q C01 A01 C01 C01 1' 11 1/4" C01 J05 C01 Q J02 J01 J02 J01 J01 J01 J01 J03 J01 J01 J01 2' 0" 36' 4" 38' 4" Truss Connector Total List

Manuf Product Q

Simpson HGUS210-2

Simpson HTU26

Simpson LGT2

Simpson LGT3-SDS2.5

Simpson LUS26

1 Simpson Simpson Simpson Simpson Simpson

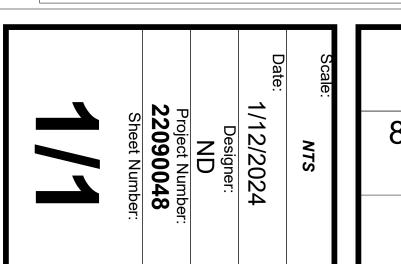
** DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.

** TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE.

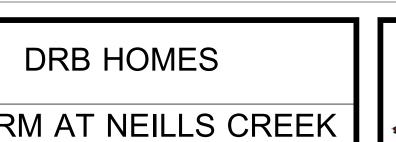
DRB HOMES

BURTON 3

A Division of the Garder Lumber Company



** GIRDERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.



89 FARM AT NEILLS CREEK **BURTON 3** COMPONENT **PLACEMENT PLAN**



** DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Madison, WI 53179 Drive: Madison, WI 53179

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

General Notes:

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

| - | 5' 3" | 38' 4" 8' 3" | | 15' 8 1/2" | 11' 7 | · · · · · · · · · · · · · · · · · · · | |
|-----------------|--|---------------------------|-------------|------------|--|---|-------------------|
| 1' 6 1/2" | 1' 5 7/16" | | 1' 5 | 7/16" FW38 | | | <u></u> |
| | 1' 7 3/16" | F11 | 1'7' | • | | | 7 |
| | 1' 7 3/16" | THAC422 | TI 1'7' | 3/16" F06 | • | | |
| | 1' 7 3/16" | THAC422 F11 | | 3/16" F06 | | | |
| | 1' 7 3/16" | THAC422 F11 | 1 / 3 | 3/16" F06 | | | |
| 16 ¹ | 1' 7 3/16" | THAC422 F11 | THA422 1'7; | | | | |
| 16' 11" | 1' 5 5/8" | THAC422 F11 | | 5/8" F06 | • | | |
| | 1' 8 3/4" | THAC422 THAC422 THAC422 | 18 | | # | | |
| | 1' 7 3/16" | THA422 THAC422 | 1'73 | V | | | |
| | 1' 8 9/16" | A4222 | 1' 8 9 | 3/16" F01 | FB1-2 | | |
| | F13 T10 A2 | THA422 | 1'7' | • | | | |
| 1' 6 1/2" | F13 _{THAC422} F N N N N N N N N N N N N N N N N N N | THAC422 | 1'73 | | | | 40' 0" 36' 10" |
|) | THA422 1' 7 3/16" | F02 | 1'73 | | | | 0" |
| | THA422 1' 7 3/16" | • | 1'73 | 3/16" F09 | | | |
| | THA422 1' 7 3/16" | • | 1'73 | 3/16" F09 | | | |
| | 1' 7 3/16" | • | 1'73 | 3/16" F09 | • | | |
| | B2-4 1' 7 3/16" | • | 1' 7 3 | 3/16" F09 | | | |
| 20' 0" | THA422 1' 5 7/16" | • | 1' 5 | | | | |
| | 1' 8 15/16" | | * | 5/16" F09 | | | |
| | 1' 7 3/16" | • | 1'73 | | | | |
| | THA422 1' 7 3/16" THA422 1' 7 3/16" | • | 1'73 | | ∑ | | |
| | THA422 1' 8 15/16" | • | * | 5/16" F09 | | | |
| | 2' 0" THA422 | • | | F09 | • | | 1'7" |
| _ + _ + | |)' 4" | | FW33 | | | |
| | 2' 0" | 36' 4" 38' 4" | | | - | | |
| | | | | | Truss Connector Total List Manuf Product Qty Simpson THA422 27 Simpson THAC422 10 | PlotID FB1-2 FB2-4 | |
| | | | | | s Con luf son | | |
| | | | | | Pro THA | Length 8' 0" 22' 0" | |
| | | | | | r Tota duct \422 C422 | Pro 2.0 2.0 | |
| | | | | | UList Qty 27 | Product 2.0 RigidLam DF I 2.0 RigidLam DF I | |
| | | | | | | Lam D | |
| | | | | | | P P | |
| | | | | | | Products LVL 1-3/4 x 9-1/ LVL 1-3/4 x 18 | |
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