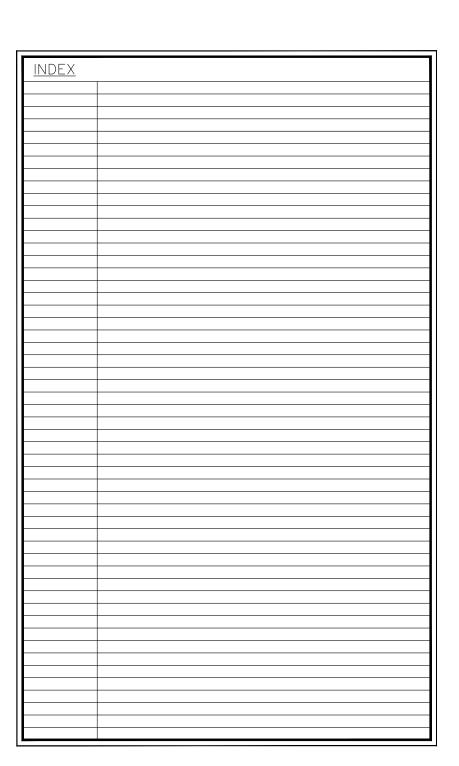
# COOPER 3-RALE

RALEIGH - LOT 00.0138 THE FARM AT NEILL'S CREEK

(MODEL# 1777)

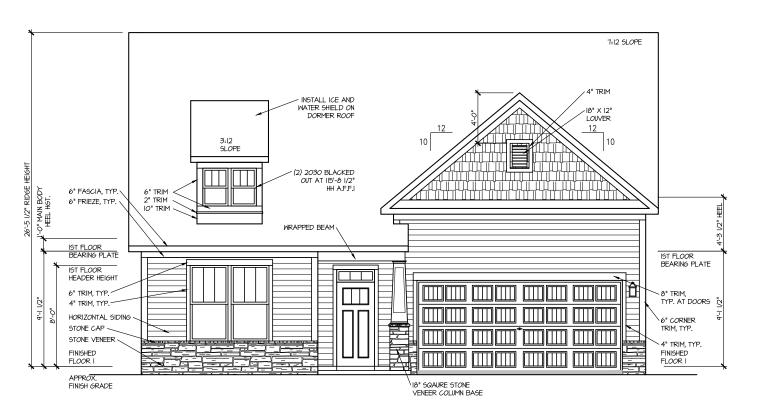
ELEVATION 6 - GR



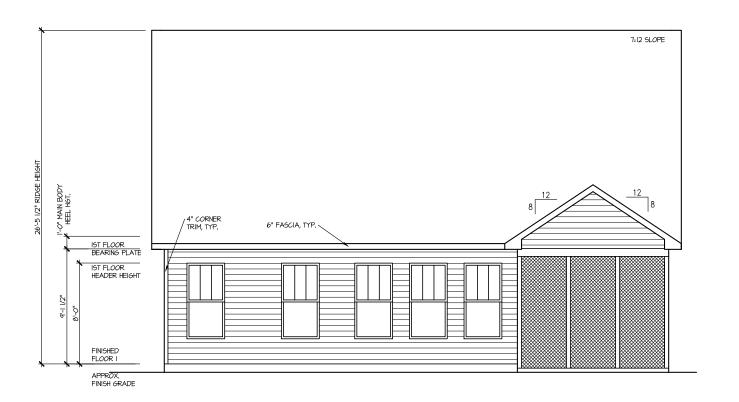


AREA CALCULATIONS ELEVATION 6		HEATED	COVERED / UNHEATED	UNCOVERED
FIRST FLOOR		1777 SF		
GARAGE			394 SF	
FRONT PORCH — ELEVATION 6			37 SF	
TRONT FORCH ELEVATION O			37 31	
ODTIONO				
OPTIONS				
SCREEN PORCH			120 SF	
	TOTAL	1777 SF	551 SF	
			001 01	
				•

	SPECIFIC	
1	LOT 00.0138	THE FARM AT NEILL'S CREEK
	ADDDECC	COOPER 3 REV. RALE 4 ELEVATION 6
2	ADDRESS	29 BARN DOOR DR LILLINGTON, NC 27546
•		
	I	I



FRONT ELEVATION 6



REAR ELEVATION 6

MASTER PLAN INFORMATION

MASTER PLAN INFORMATION

DATE:
09/02/2025

LEVISION DATE
1.12.2

A-RALE 2-24-2025

LILLIAN NO.
1.12.1



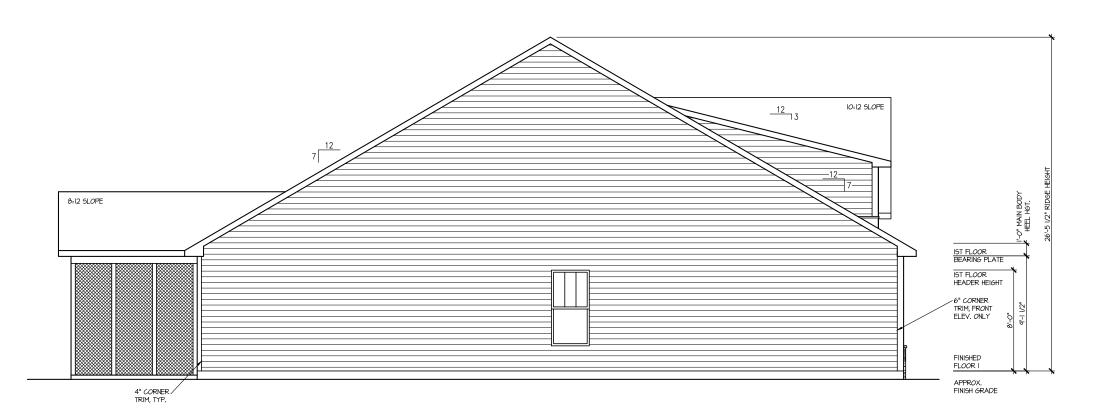
DRAWING TITLE FRONT & REAR ELEVATIONS

HOUSE NAME:
COOPER
DRAWING TITLE

SHEET No.



# RIGHT ELEVATION 6 SCALE: 1/8" = 1'-0"



LEFT ELEVATION 6
SCALE, 1/8° = 1'-0"

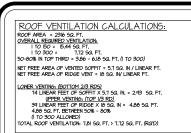
'ILE: Lot 00.0138.dwg DATE: 6/7/2022 10:10 AM

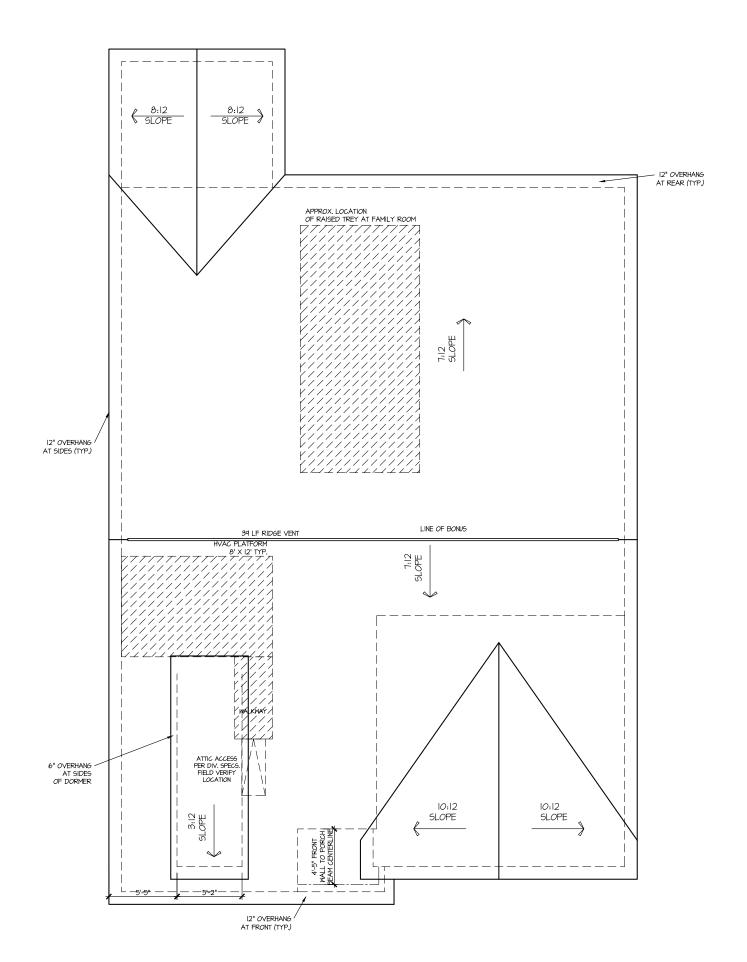
PLAN NO. 1777

DATE: 06/07/2022

> DRAWING TITLE RIGHT & LEFT ELEVATIONS

SHEET No.





DRAWN BY: DATE: 06/07/2022 PLAN NO. 1777

2

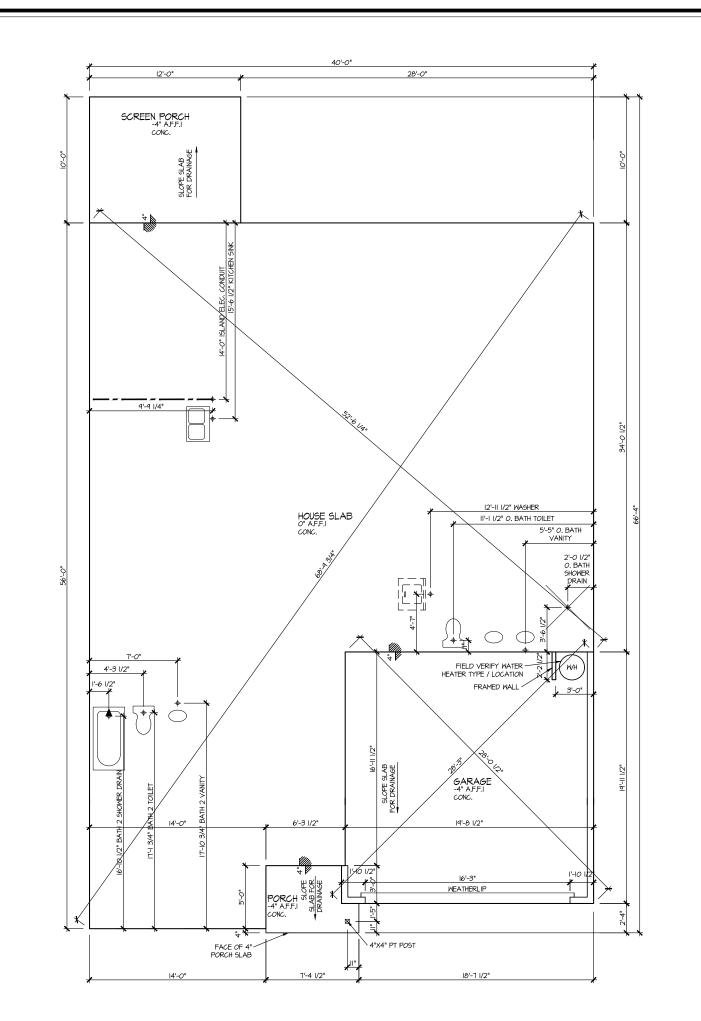
ROOF PLAN ELEV. 6

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

HOUSE NAME: COOPER DRAWING TITLE ROOF PLAN

SHEET No.

AI.3



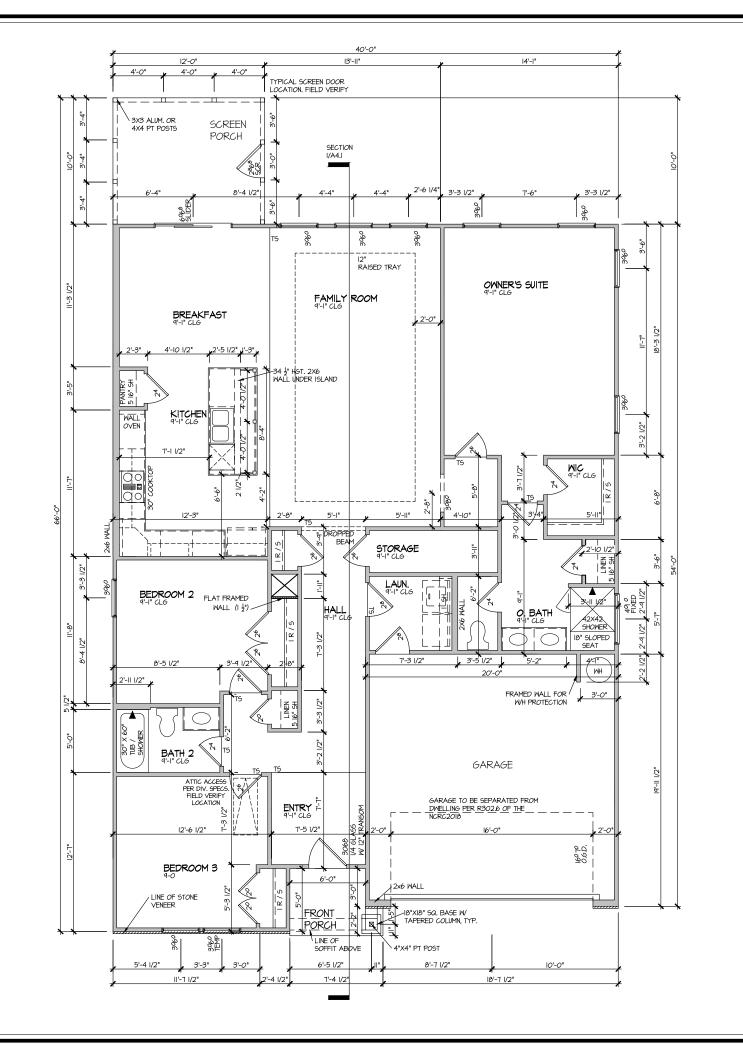


<del>-</del>111



HOUSE NAME:
COOPER 3
DRAWING TITLE
SLAB PLAN

SHEET No.



ELEVATION 6 FIRST FLOOR PLAN SCALE: 1/8" = 1'-0" MASTER PLAN INFORMATION

MASTER PLAN INFORMATION

REVISION

BASTER PLAN INFORMATION

REVISION

12.24-2022

BASTER UPDA

12.24-2022

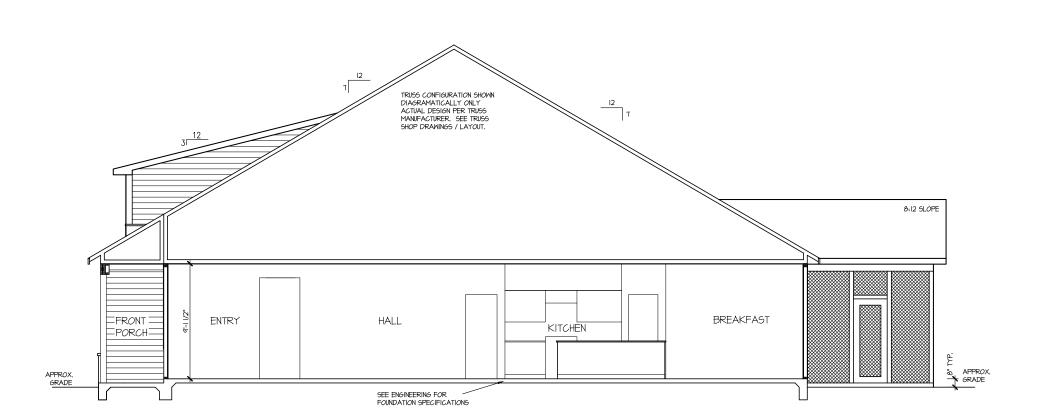
PLAN NO.

12.24-2022



HOUSE NAME:
COOPER 3
DRAWING TITLE
FIRST FLOOR PLAN

SHEET No.



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

DRAWN BY: DATE: 06/07/2022 PLAN NO. 1777

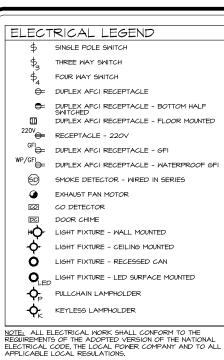
HOUSE NAME:

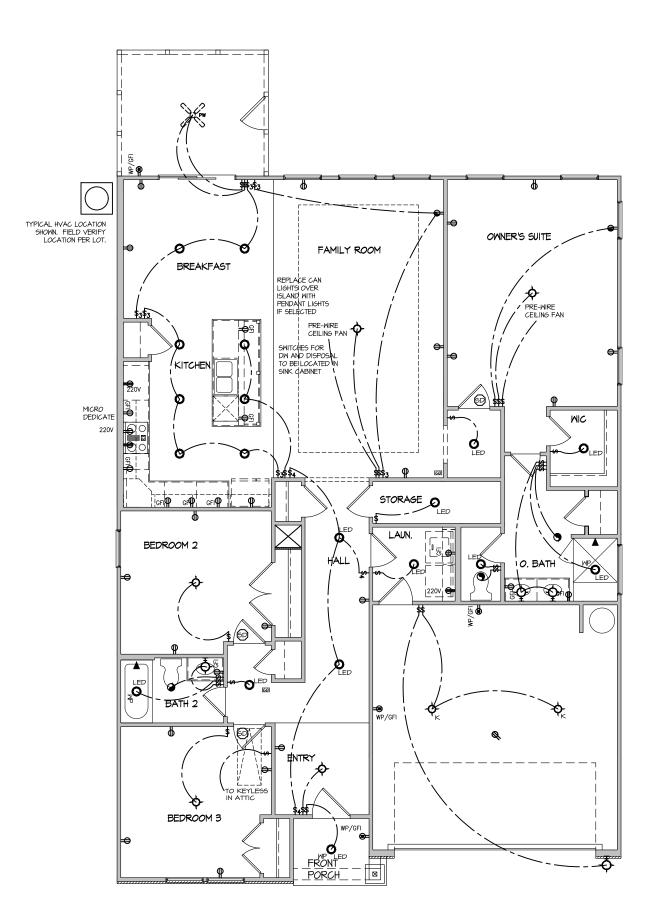
COOPER 3

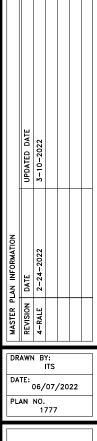
DRAWING TITLE

BUILDING SECTION

SHEET No. A4.I









ELECTRICAL 3 HOUSE NAME: COOPER DRAWING TITLE FLOOR

SHEET No.

ELECTRICAL PLAN FIRST FLOOR - ELEV. 6 SCALE: 1/8" = 1'-0"

#### GENERAL STRUCTURAL NOTES

#### FOUNDATION

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
- FOOTING DESIGN 2000 PSF ALLOWARDER SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY
- FASTEN 2x4/6 SILL PLATES TO FND WITH A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAX. FROM PLATE ENDS - UTILIZING:

  ■ 1/2" DIA. ANCHOR BOLTS @ 6'-0" O.C., 7" MIN. EMBEDMENT
  - (CONC), 15" MIN. EMBEDMENT (CMU)
- SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C. (CONC) • SIMPSON MAB23 ANCHOR STRAPS @ 2'-8" O.C. (CMU)
- (REFER TO DETAILS FOR 10' TALL WALL ANCHOR REQUIREMENTS) ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ CONCRETE
- OR CMU SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2. BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF
- HARDWARE & FASTENERS IN CONTACT W PRESERVATIVE-TREATED WOOD, CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD,
- BASEMENT INTERIOR BEARING WALLS & EXTERIOR WALK-OUT BASEMENT WALLS SHALL BE 2x6 € 16" O.C. 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 3,000 psi: ...... GARAGE & EXTERIOR SLABS ON GRADE 60,000 psi
- BASEMENT FOUNDATION WALL DESIGN BASED ON:

f'c =

- 9' OR IO' HEIGHT (AS NOTED ON PLANS)
- TALLER WALLS MUST BE ENGINEERED. NOMINAL WIDTH (9 1/5" FOR 10" THICK WALL).
- BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYPE CLASSIFICATIONS (SC, ML-CL, OR CL).
- BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY ADEQUATE TEMPORARY BRACING OR INSTALL IST FLOOR DECK.
- PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN CONCRETE BSMT, FND, WALL WITH 2" CLEAR, REINFORGEMENT SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS
- FOR OPENINGS UP TO 36", PROVIDE MINIMUM IO" CONCRETE DEPTH OVER OPENING OR (3)2x10 w/ (2)2x6 JACK STUDS, U.N.O
- LARGER OPENINGS SHALL BE PER PLAN.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT.
- ALL FOOTINGS SHALL BEAR AT LEAST 12" BELOW FINISH GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP.
- JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-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 (F/m=1500 psi), MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 \$ 530.I.
- CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORCEMENT (OR EQUAL) - 9 GA. MINIMUM @ 16" O.C.
- PROVIDE 2x8 x 16" LONG P.T. PLATE ON TOP OF ALL 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 VERIFY THAT MODEL HAS BEEN ADEQUATELY TREATED BY A LICENSED AND BONDED PEST CONTROL COMPANY FOR SUBTERRANEAN TERMITES, METHOD AND TYPE OF TREATMENT TO BE DETERMINED BY PEST CONTROL COMPANY.

#### GENERAL STRUCTURAL NOTES

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

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

FLOOR LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (I-JOISTS & SOLID SAWN)
10 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

#### 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 REQUIREMEN FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- REFER TO FASTENING SCHEDULE TABLE R602.3(I) FOR ALL CONNECTIONS, TYP. U.N.O.
- EXT. & INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS, • 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 SPRUCE-PINE-FIR #2 (SPF) 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" O.C. (MAX., U.N.O.) HEADERS IN NON-LOAD BEARING WALLS SHALL BE:
- (1)2x4/6 FLAT @ OPENINGS UP TO 4', (2)2x4/6 FLAT UP TO 8'. ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).
- ENGINEERED LUMBER TO MEET OR EXCEED THE FOLLOWING:
- 'LSL' Fb=2325 psi; Fv=3I0 psi; E=I.55xI0^6 psi 'LVL' Fb=2600 psi; Fv=285 psi; E=2.0xI0^6 psi
- FOR 2 & 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROMS OF 3"X0.120" NAILS @ 8" O/C OR 2 ROMS ½"X3½" SIMPSON SDS SCREWS (OR 3½" TRUSSLOK SCREWS) @ 16" O/C, USE A MINIMUM OF 3 ROWS FOR BEAM DEPTHS OF 14" OR GREATER APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATI TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE. SOLID 3 1/2" OR 5 1/4" MS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 \$ 2x8
- FOR 4 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 1/4"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 SCREWS 2" FROM EDGE. A SOLID 7" BEAM IS ACCEPTABLE.
- ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD & (1)2x KING STUD, MINIMUM.
- THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, U.N.O.,
- ALL MULTI-PLY STUDS TO BE FASTENED TOGETHER w/ 3"X0.131" NAILS @ 24" O.C. (MIN.), EACH PLY.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND./BEARING. BLOCKING TO MATCH POST ABOVE.
- FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS WITH P.A.F.'s ('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 & ABW44Z BASE, U.N.O.

#### FLOOR FRAMING

- I-, KOISTS/TRUSSES SHALL BE DESIGNED BY MANUE. 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. ● I-JOIST/TRUSS SHOP DWGS. SHALL BE SUBMITTED TO ARCH. ¢ ENG. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVER'S
- 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"0.c. @ PANEL EDGES \$ @ 12"0.c. FIELD.
- 2 ( × 0.120" NAILS 4" O.C. PANEL EDGES € 8" O.C. FIELD.
- 2 3 × 0.113 NAILS 3 O.C. PANEL EDGES \$ 6 O.C. IN 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 POOF TRIES TO TOP PLATE W/ SIMPSON H25T 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.C
- ROOF TRUSS SHOP DWGS, SHALL BE SUBMITTED TO ARCH & ENG. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY
- ERECT AND INSTALL ROOF TRUSSES PER MTCA & 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. (I-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 3 × 0.120" NAILS @ 4"o.c. @ PANEL EDGES \$ @ 8" O.C. FIELD.
- W/ 2 3 × 0.113 NAILS 3 O.C. PANEL EDGES \$ 6 O.C. FIELD.

#### HOLD-DOWN SCHEDULE

5YMB0L	SPECIFICATION	
► HD-I	SIMPSON HTT4 HOLD-DOWN *	
► HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.)	
<b>▶</b> HD-3	► HD-3 SIMPSON STHDI4RJ HOLD-DOWN	

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

#### LEGEND

- IIIIIIIII 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.

#### 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)2×6	(3)2×6

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

#### LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: 120 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 NGSBG RG OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.12 COMPLY ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED 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 IIII 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 & NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE PANEL FIELD. TYP, U.N.O.

HORIZONTAL BLOCKING OF EXT. WALL/SHEAR WALL PANEL EDGES IS <u>NOT</u> 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: 15" I6 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C IN FIELD.

#### BLOCKED PANEL EDGES

AT DESIGNATED AREAS - FASTEN SHEATHING w/ 8d NAILS @ 6" O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR | 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 EDGES & EDGE FASTENING

#### 3" O.C. EDGE NAILING

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

- STANDARD SHEAR TRANSFER DETAILING IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
- DESIGN ASSUMES 16" O.C MAX. STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING.
- PRE-MANUFACTURED PANELIZED WALLS: FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ IOd NAILS • 4" O.C. (THRU ONE SIDE ONLY)

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

INDICATES HOLDOWN BELOW

NC LIC HEN ERN+KU



1&K project numbe 126-21030

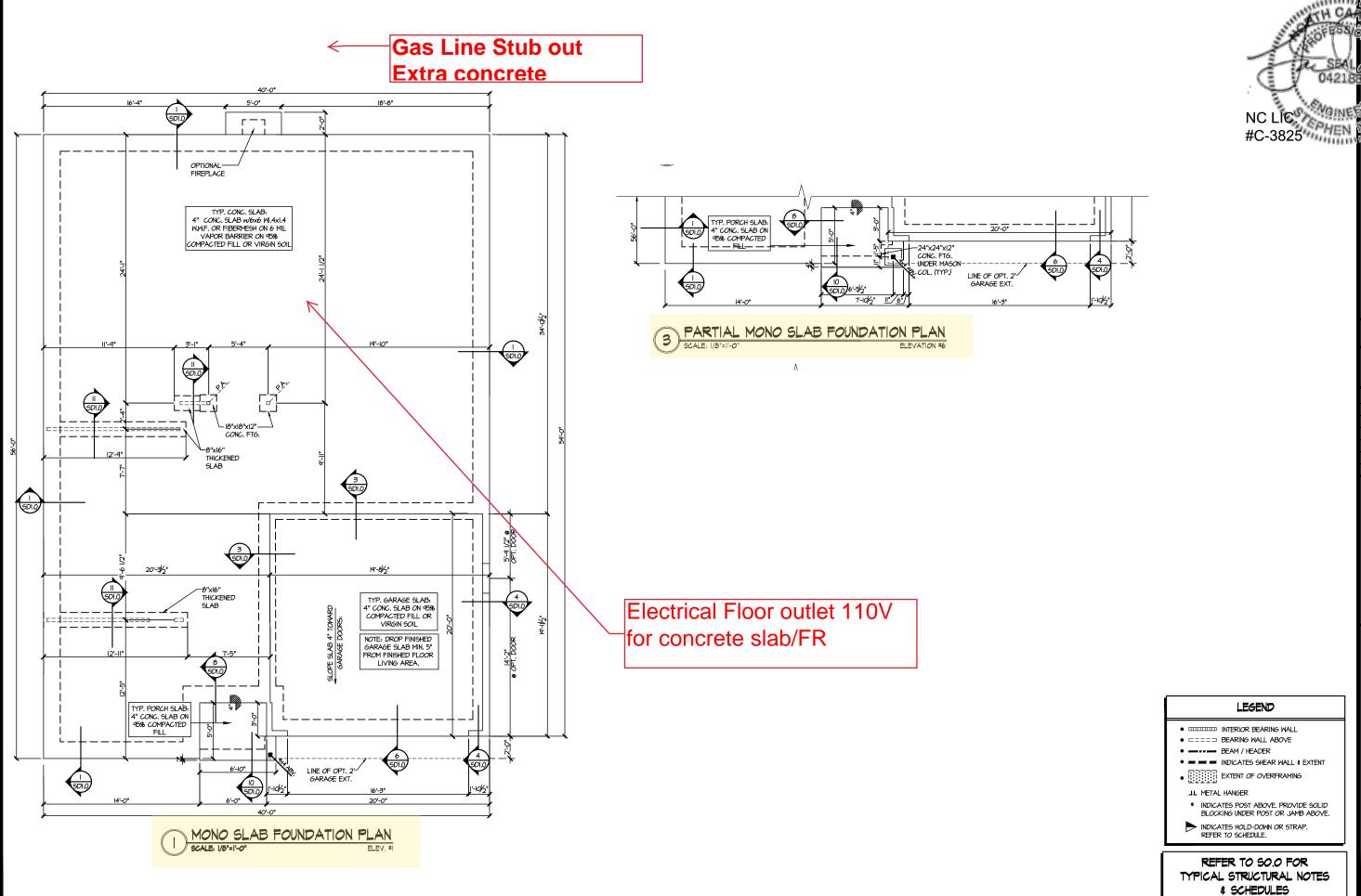
JTR drawn by: ssue date: 08-20-2

REVISIONS 3/09/22



MODI  $\sim$ OOPER

 $\cup$ 

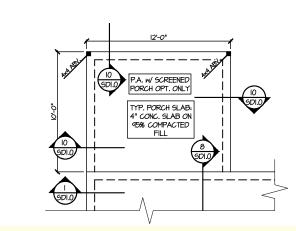


MULHERN+KULF

MESIDENTIAL STRUCTURAL ENGINEERING M&K project number: 126-21030 drawn by: issue date: 08-20-2 3 MODEL

Sheet: RIGHT HAND

COOPER

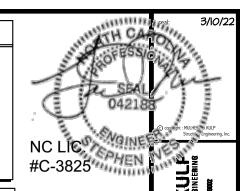


PARTIAL MONO SLAB FOUNDATION PLAN OPTIONAL PATIO & SCREENED PORCH

#### LEGEND

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

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES \$ SCHEDULES



**y** 



JTR KL drawn by: issue date: 08-20-2 1







FOUNDATION PLANS
COOPER 3 MODEL

RALEIGH, NC

sheet: RIGHT HAND

REFER TO SO.O FOR
TYPICAL STRUCTURAL NOTES

\$ SCHEDULES

#### 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.

SEAL 042188

O42188

NC LIC. #C-3825

M&K project number: 126-21030

project mgr: JTR drawn by: KL issue date: 08-20-2

REVISIONS:
date: initial:
03/09/22 JTS

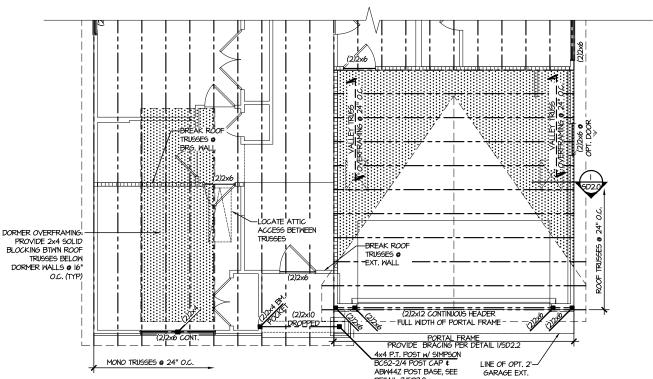




ROOF FRAMING PLANS COOPER 3 MODEL

RALEIGH, NC

sheet: RIGHT HAND



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.

3/10/22 NC LICO PHEN HEN

MULHERN+KULF RESIDENTIAL STRUCTURAL ENGINEERING 300 December And Delifting to Author En 18002 p.275-56-56001 - Authorite com-

M&K project number: 126-21030

JTR drawn by: KL issue date: 08-20-2

REVISIONS: initial:



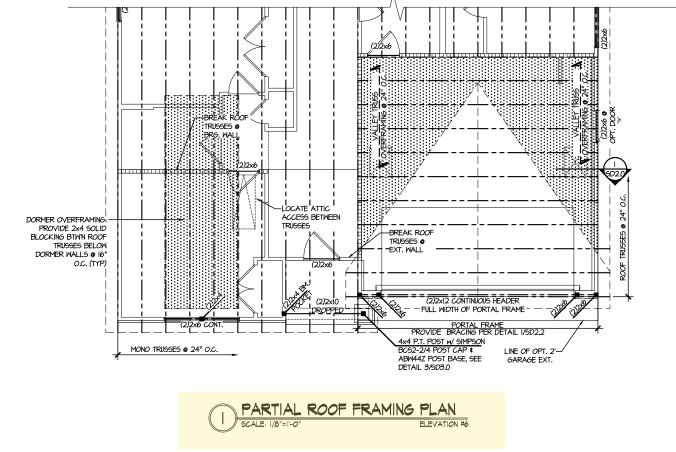


ROOF FRAMING PLANS COOPER 3 MODEL

RALEIGH, NC

sheet: RIGHT HAND

**S4.**1



REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

- \* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

LEGEND • IIIIIII INTERIOR BEARING WALL ● □===□ BEARING WALL ABOVE • --- BEAM / HEADER • = = INDICATES SHEAR WALL & EXTENT EXTENT OF OVERFRAMING NC LICO MOINES #C-3825 HEN JL METAL HANGER

MULHERN+KULF
RESIDENTIAL STRUCTURAL ENSINEERINS

3/10/22



M&K project number: 126-21030

project mgr: JTR KL drawn by: issue date: 08-20-2

REVISIONS: initial: 03/09/22 JTS





OPTION FRAMING PLANS COOPER 3 MODEL

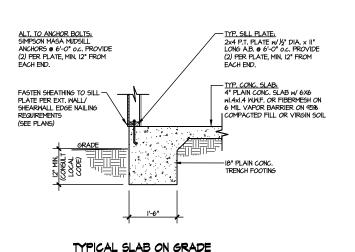
RALEIGH, NC

sheet: RIGHT HAND **S5.**1

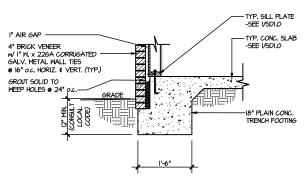
- SEE TYPICAL NOTES FOR FASTENING. PROVIDE SIMPSON BC46 BASE • WOOD DECK 4x4 P.T. POST W/ SIMPSON BC52-2/4 POST CAP & ABW44Z POST BASE, SEE DETAIL 3/SD3.0 (TYP.) ROOF DRAG TRUSS (100 PLF CAP) OVERFRAMING

24" O.C. PARTIAL ROOF FRAMING PLAN OPTIONAL SCREENED PORCH

SCALE: 1/8"=1"-0" ELEV #1 SHOWN - ALL ELEV



PERIMETER FOOTING

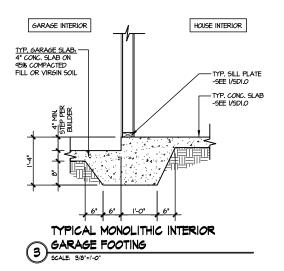


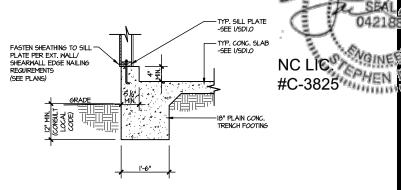
w/ BRICK VENEER

— TYP. SILL PLATE BEYOND -SEE I/SDI.O

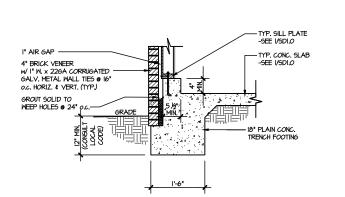
TYPICAL SLAB ON GRADE

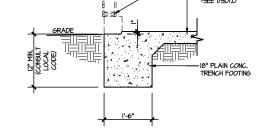
2 PERIMETER FOOTING

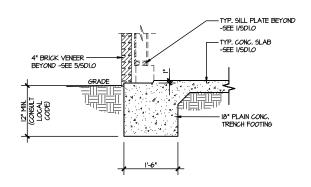


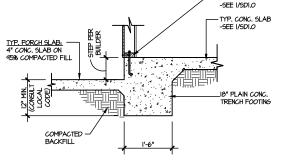










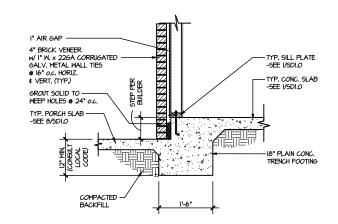


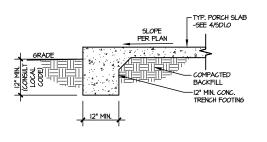


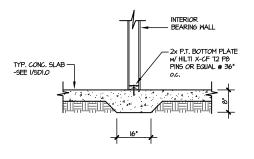


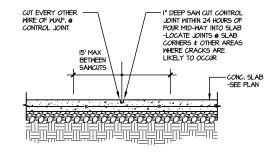
TYPICAL SLAB ON GRADE GARAGE TENTRY @ PERIMETER FOOTING

TYPICAL SLAB ON GRADE PERIMETER 8 FOOTING @ PORCH/PATIO









TYPICAL SLAB ON GRADE PERIMETER 9 FOOTING @ PORCH/PATIO SCALE: 3/6"=1'-0"

TYPICAL FOOTING @ PORCH SLAB





'AIL MODE TION  $\sim$ OOPER

SD<sub>1</sub>

AND DESCRIPTION

04218

3/10/22

MULHERN+KULF
RESIDENTIAL STRUCTURAL ENGINEERING

M&K project number 126-21030

drawn by:

REVISIONS:

3/09/22

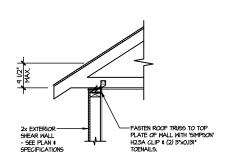
JTR

initial:

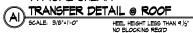
JTS

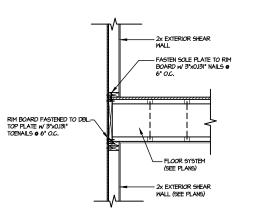
ΚL

issue date: 08-20-2



#### TYPICAL SHEAR

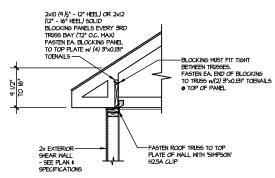




## TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL SCALE: 3/6":1"-0"

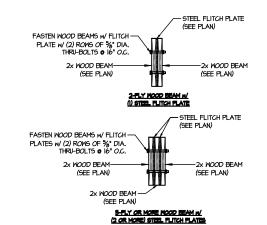
- HOLD-DOW

(SEE PLANS)

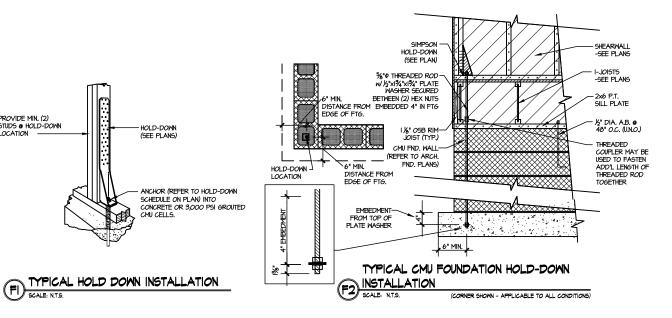


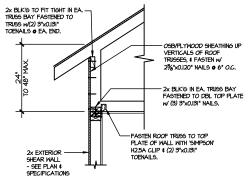
#### TYPICAL SHEAR





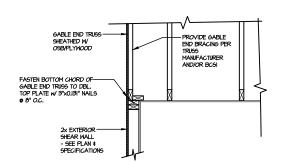
# TYPICAL FLITCH BEAM CONNECTION DETAIL SCALE 944-11-0\*





## TYPICAL SHEAR TRANSFER





TYPICAL GABLE END DETAIL

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



MULHERN+KULF
RESIDENTIAL STRUCTURAL ENGINEERING

3/10/22

VARIABLE DE L'ARRESTE DE L'ARRE

04218

NC LIC MOINES #C-3825

M&K project number: 126-21030

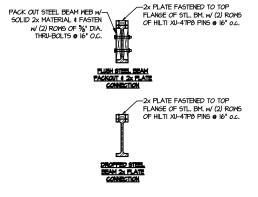
**JTR** KL drawn by: issue date: 08-20-2

REVISIONS: initial: JTS 3/09/22

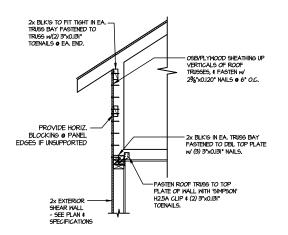
AILS MODEL  $\mathcal{C}$ 

COOPER

**SD2.0J** 

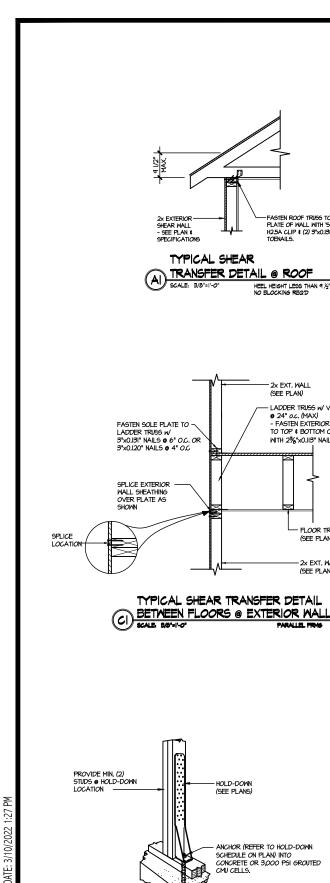


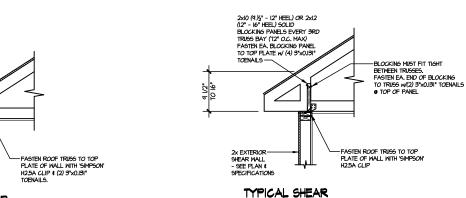
## TYPICAL STEEL BEAM CONNECTION DETAIL SCALE 9/4"-1"-0"

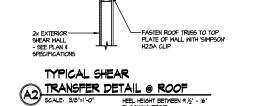


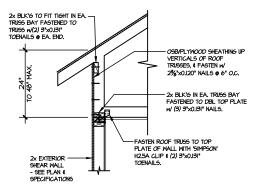
#### TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS

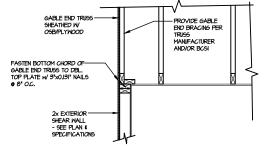
PROVIDE MIN. (2) STUDS @ HOLD-DOWN LOCATION —

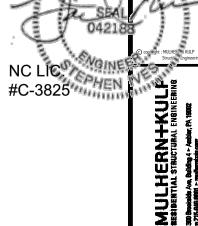












M&K project number

drawn by:

REVISIONS:

3/09/22

126-21030

ssue date: 08-20-2

**JTR** 

initial: JTS

ΚL

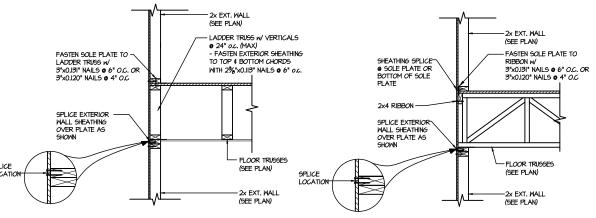
AND THE PARTY IS NOT THE PARTY IN THE PARTY

3/10/22

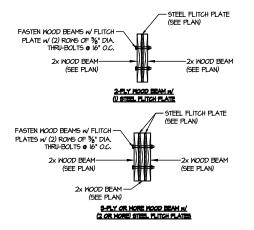
TYPICAL SHEAR TRANSFER

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

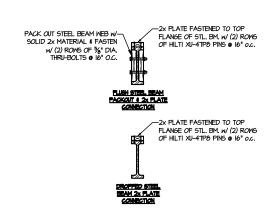




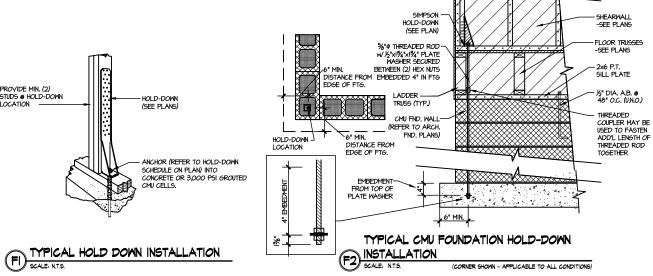


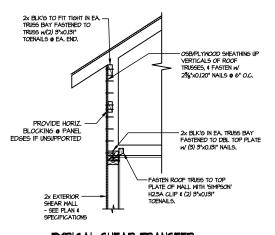






TYPICAL STEEL BEAM CONNECTION DETAIL SCALE SAT-15-0\*



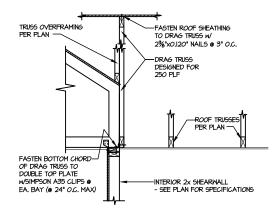






**SD2.0T** 

SHEAR TRANSFER DETAIL @ BREAK IN TRUSSES OVER SHEAR WALL SCALE: 3/4"=1"-0" - 22:64 3/8"=1"-0" - 1bd7



SHEAR TRANSFER DETAIL

AT INTERIOR SHEARMALL BELOW

SCALE 944-11-0\*

3/10/22 NC LICO HEN HEN

MULHERN+KULF RESIDENTIAL STRUCTURAL ENGINEERING

**y** M&K project number:

126-21030

JTR KL drawn by: issue date: 08-20-2

REVISIONS: initial: 03/09/22 JTS



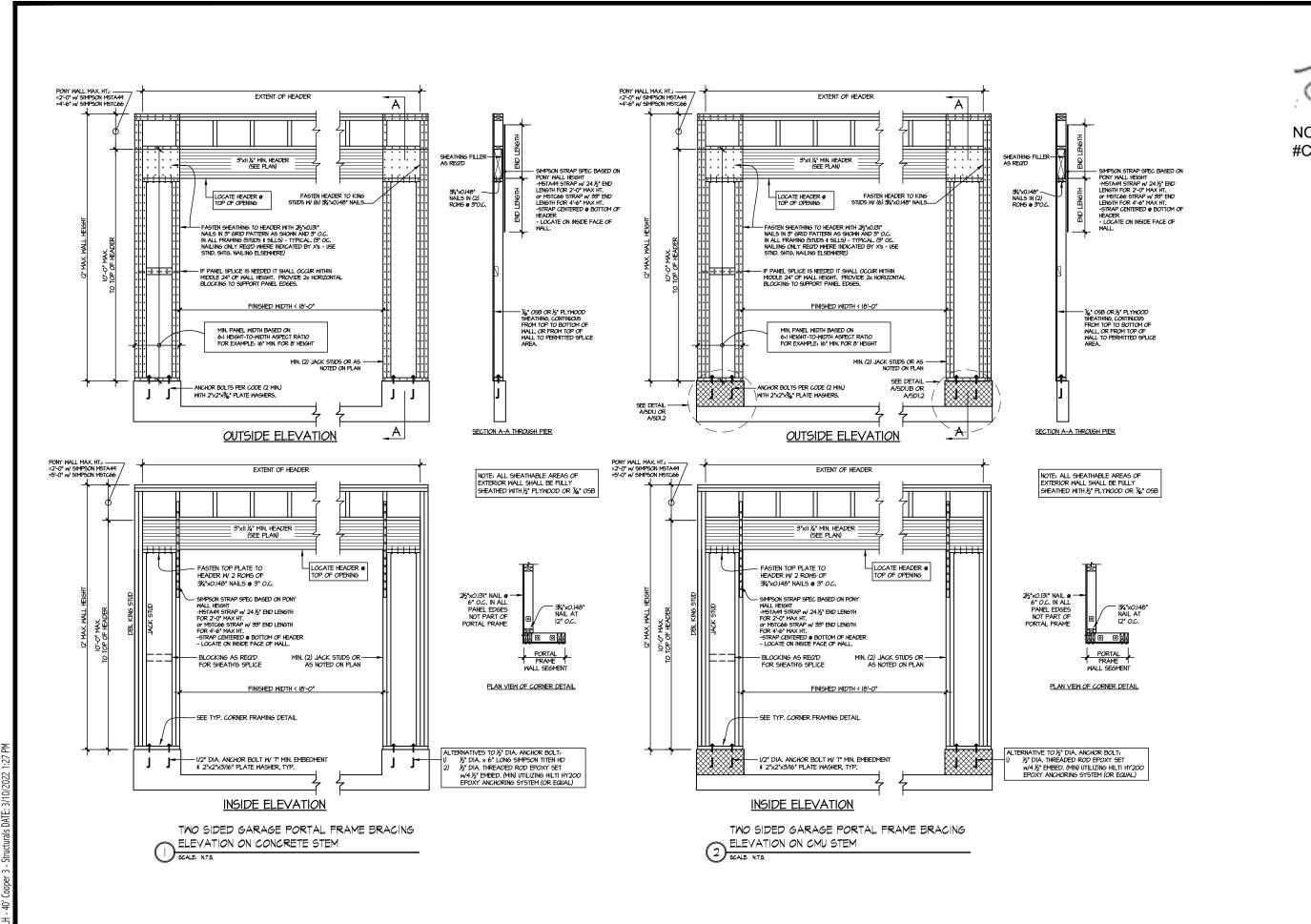




RAMING DETAILS COOPER 3 MODEL

RALEIGH, NC

**SD2.1** 



MCLIC
#C-3825

Mok project number:
126-21030

project mgr: JTR
drawn by: KL
issue date: 08-20-21

REVISIONS:
date: initial:
03/09/22 JTS

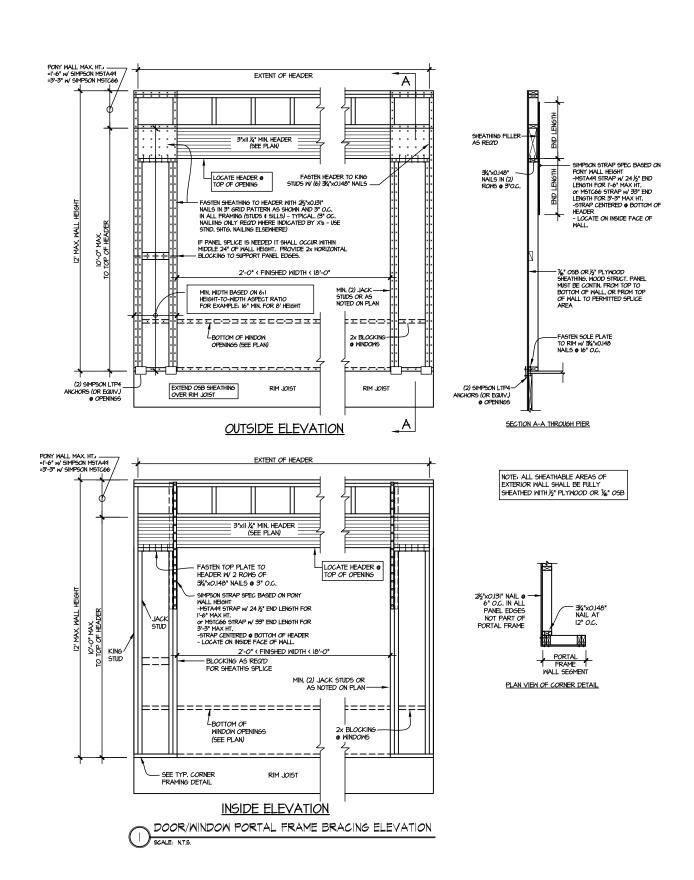
03/03/EL 7/0



RAMING DETAILS
OOPER 3 MODEL

et:

SD2.2



3/10/22 NC LIC HEN MULHERN+KULF ESIDENTIAL STRUCTURAL ENGINEERING M&K project number: 126-21030 drawn by: issue date: 08-20-2 REVISIONS: 03/09/22

**JTR** 

initial:

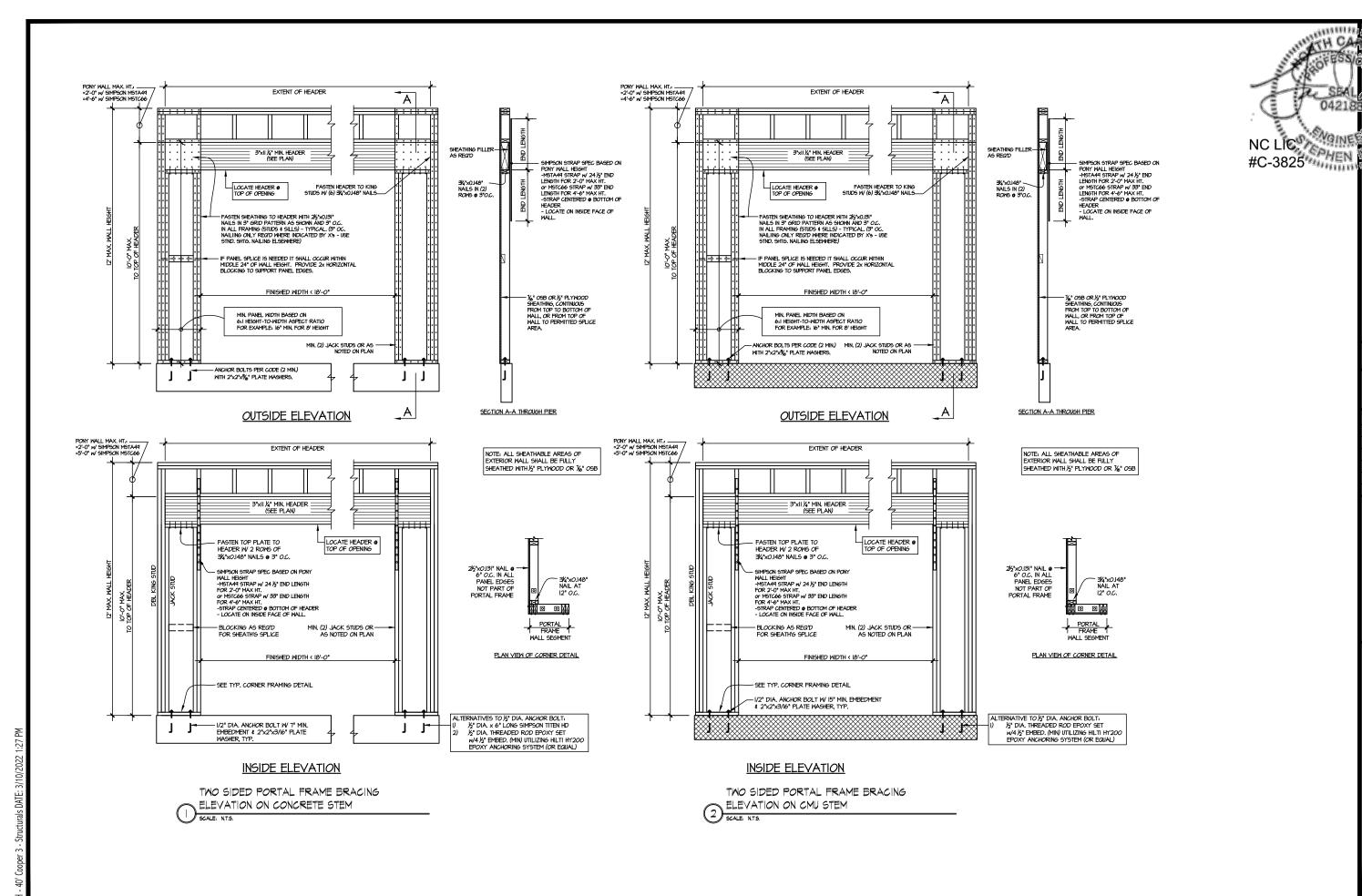
JTS

KL

RAMING DETAILS MODEL  $\mathcal{C}$ COOPER

**SD2.3** 

RALEIGH, NC



ERN+KULF STRUCTURAL ENGINEERING MULHE ESTIMATION S M&K project number: 126-21030 **JTR** drawn by: ΚL issue date: 08-20-2 REVISIONS: initial: 3/09/22 JTS P **AILS** MODEL

 $\mathcal{C}$ 

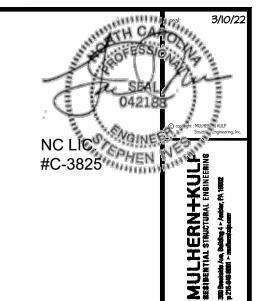
OOPER

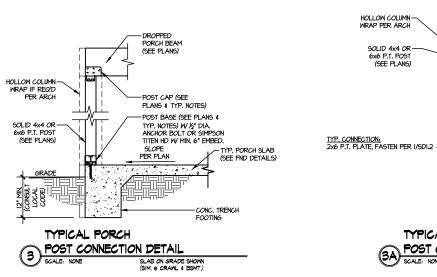
 $\bigcup$ 

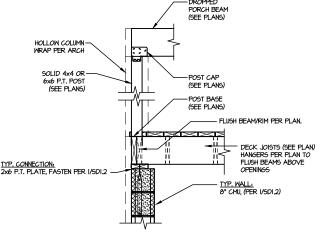
**SD2.4** 

RALEIGH,

3/10/22







TYPICAL PORCH POST CONNECTION DETAIL
SCALE: NOME CRANL SPA CRAWL SPACE W DECK

**y** M&K project number:

126-21030

JTR KL drawn by: issue date: 08-20-2

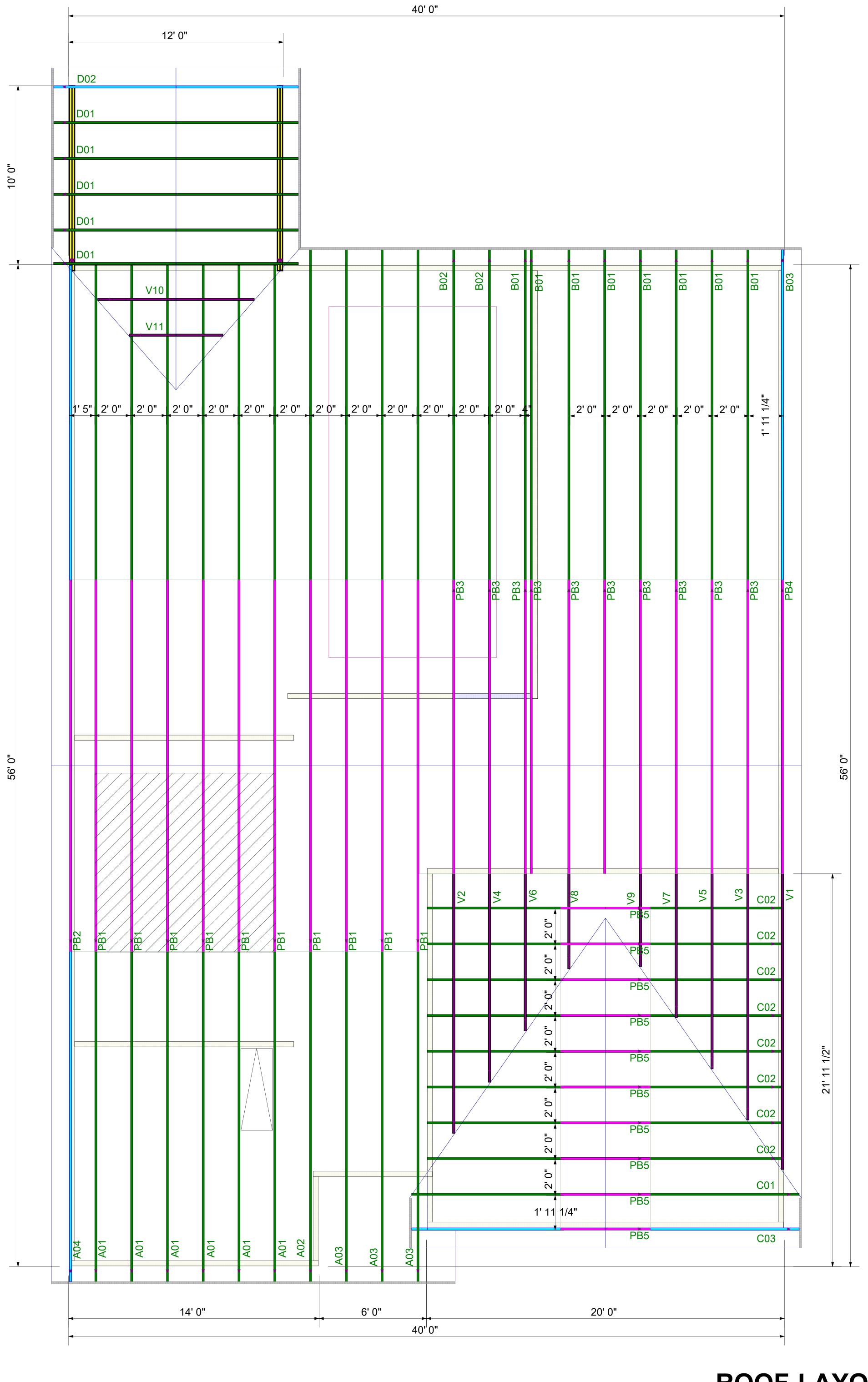






FRAMING DETAILS COOPER 3 MODEL

**SD3.0** 



ROOF LAYOUT
DRAWING SCALE: NTS

PROJECT NUMBER	REVISIONS	
22060077	DATE BY	
SHEET NUMBER	6-24-22 ND	
A   A		
- ' -		

DRB GROUP

COOPER 6 - 138 FARM AT NEILLS CREEK
ROOF TRUSS LAYOUT

