MINIMUM DESIGN LOADS: PER 2018 NC RESIDENTIAL BUILDING CODE / 2015 IRC WITH NC AMENDMENTS

SUNROOM CATEGORY II (PER 2015 IRC R301.2.1.1.1 & AAMA / NPEA / NSA 2100)

NOTE: COMPONENTS HAVE BEEN CHECKED AGAINST DESIGN LOADS SHOWN & FOUND TO BE ACCEPTABLE STRUCTURALLY

DEAD LOADS:

- 1. ROOF: 6 PSF
- 2. WALLS: 6 PSF
- 3. FLOOR: 12 PSF

SNOW LOADS: GROUND SNOW LOAD 20 PSF

ULTIMATE DESIGN WIND SPEED: 120 MPH, 3 SEC. GUSTS

LIVE LOADS:

- 1. ROOF: 20 PSF
- 2. FLOOR: 40 PSF

DEFLECTION LIMITS:

- 1. ROOF: L/120 (PER 2015 IRC TABLE R301.7 NOTE C)
- 2. WALLS: L/175
- 3. FLOOR: L/240 (TOTAL LOAD), L/360 (LIVE LOAD)

ALLOWABLE SOIL PRESSURE CONSIDERED (PRESUMPTIVE) = 2000 PSF

THIS THERMALLY ISOLATED SUNROOM IS UNCONDITIONED AND NOT HABITABLE

NOTE: THIS STRUCTURE HAS BEEN EVALUATED FOR VERTICAL AND LATERAL LOADS REQUIRED BY THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.

NOTES:

- 1. ALLVIEW (CA5) SUNROOM; WHITE IN COLOR
- 2. CONSTRUCT SUNROOM ON NEW DECK
- 3. ELECTRICAL BY GDI
- 4. CONCRETE
 - A) CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
 - B) ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. EXTERIOR FLOORS AND EXPOSED CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AND 5% TO 7% AIR ENTRAINMENT.

5. WOOD

- A) MATERIALS FRAMING LUMBER
 - i) WOOD POSTS: NO. 2 GRADE (OR BETTER) SOUTHERN PINE OR DOUGLAS FIR
 - ii) 2x8, 2x10, 2x12 NO. 2 GRADE (OR BETTER) SOUTHERN PINE OR DOUGLAS FIR
- B) WOOD MEMBERS SHALL BE PRESSURE-TREATED FOR THE FOLLOWING CONDITIONS:
 - i) IN DIRECT CONTACT WITH THE GROUND
 - ii) SILLS OR PLATES ON CONCRETE WITHIN 8" OF FINISHED GRADE
 - iii) JOISTS AND SUBFLOORS WITHIN 18" OF FINISH GRADE AND BEAMS WITHIN 12" OF FINISH GRADE
 - iv) EXPOSED EXTERIOR DECKS
- C) FASTENERS

ALL FASTENERS AND HARDWARE USED TO CONNECT TO PRESSURE TREATED WOOD MEMBERS SHALL EITHER BE 304 OR 316 STAINLESS STEEL, OR HOT DIPPED GALVANIZED PER ASTM-A653 COATING DESIGNATION G-185 AND ASTM-A153

- 6. STRUCTURAL ALUMINUM
 - A) ALL EXTRUSIONS SHALL BE COMMERCIAL GRADE ALUMINUM SUPPLIED BY GREAT DAY IMPROVEMENTS, LLC.
 - B) ROOF PANELS SHALL BE 3" OR 6" THICK SUPER FOAM ROOF PANELS FACED WITH A 0.024" ALUMINUM SKIN TOP AND BOTTOM.
- 7. THIS SUNROOM IS CONSIDERED AS NON-CONDITIONED SPACE, EXEMPT FROM ENERGY REQUIREMENTS (PER 2015 IRC SECTION N1102.1, NOTE 2)

GREAT DAY IMPROVEMENTS PATIO ENCLOSURES, RALEIGH WILLIAMS RESIDENCE

SHEET#	DESCRIPTION
OTTLL T #	
1	COVER
2	ELEVATION "B" WALL
3	ELEVATION "A" & "C" WALL
4	DECK PLAN
5	ELECTRICAL PLAN
6	FLOOR PLAN
7	ROOF PLAN
8	SYSTEM DETAILS
9	SYSTEM DETAILS

SQUARE FOOTAGE OF SUNROOM = 169

3/15/24 1 OF 9

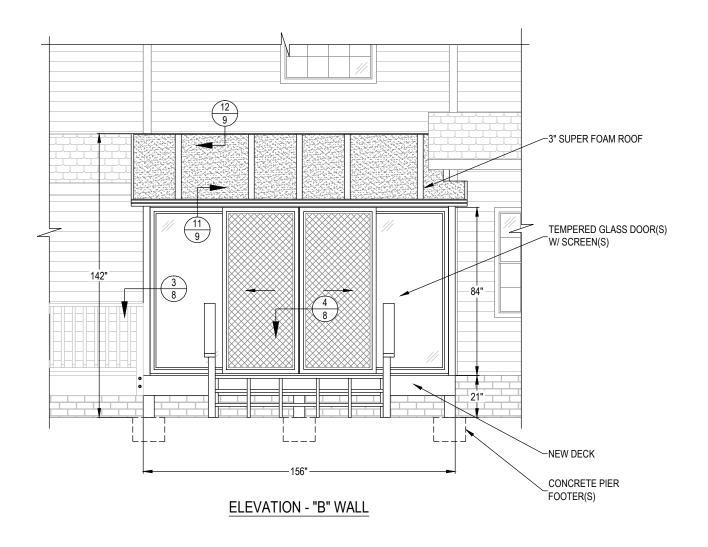
KEVIN WILLIAMS 76 GROVER PLACE CAMERON, NC 28326 JOB #21002

RALEIGH 951 AVIATION PKWY, SUITE 1000 MORRISVILLE, NC 27560 984-212-8850



FORT THOMAS, KY. 41075





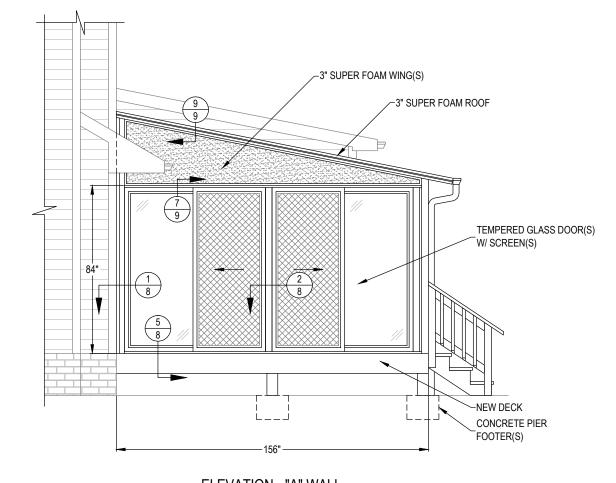
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DRAWN PIH	-
SCALE 1/4" = 1'-0"	-
SHEET 2 OF 9	-

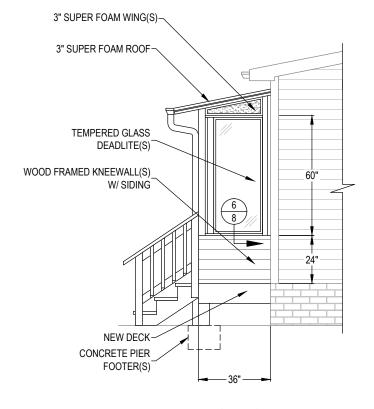
KEVIN WILLIAMS 76 GROVER PLACE CAMERON, NC 28326 JOB #21002

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ELEVATION - "C" WALL

ELEVATION - "A" WALL (OPEN DECK & RAILING NOT SHOWN FOR CLARITY)

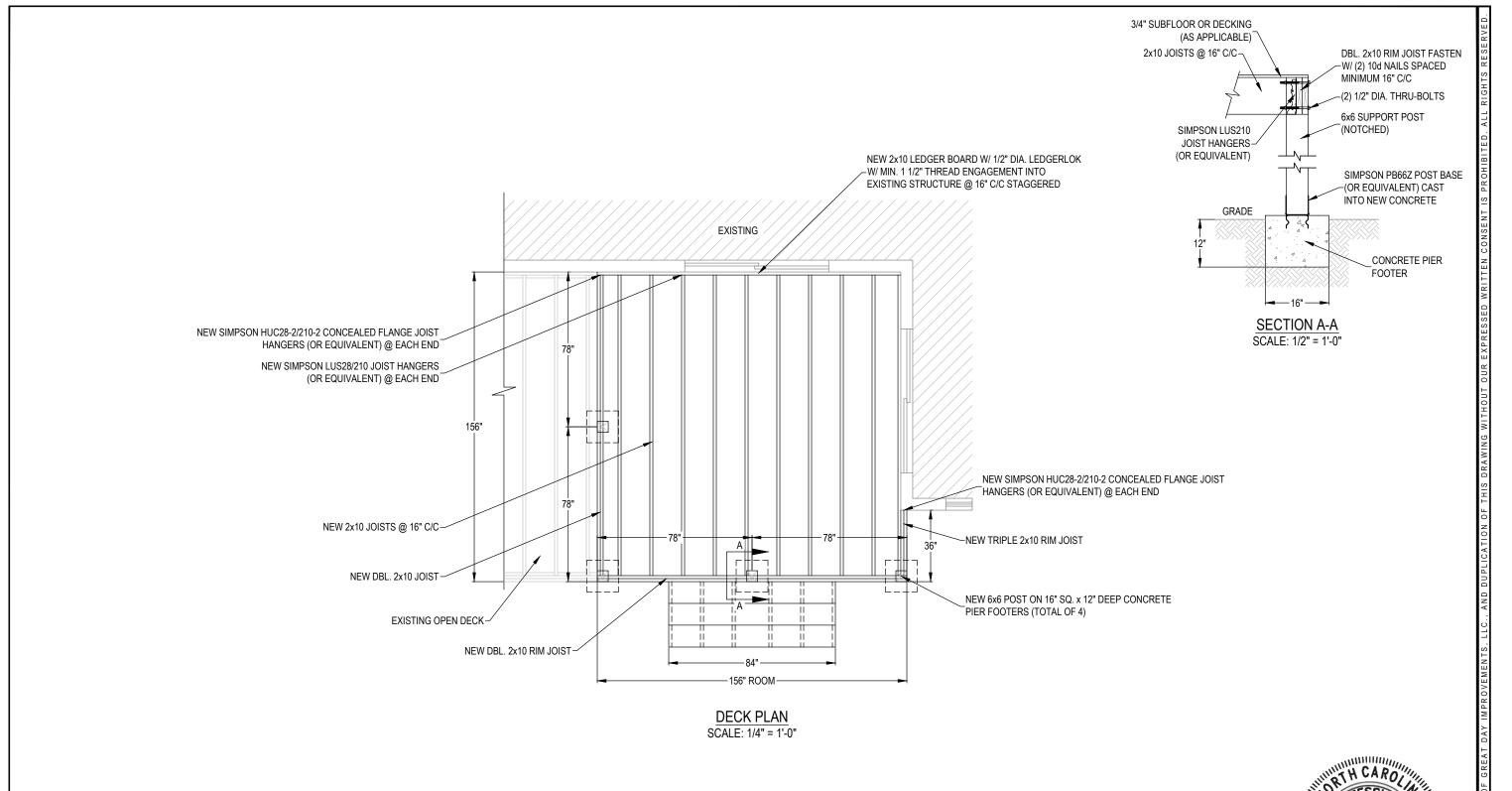
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DRAWN PIH	-
SCALE 1/4" = 1'-0"	-
SHEET 3 OF 0	-

KEVIN WILLIAMS 76 GROVER PLACE CAMERON, NC 28326 JOB #21002

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NOTE: DECK TO BE BUILT PER 2018 NC RESIDENTIAL CODE

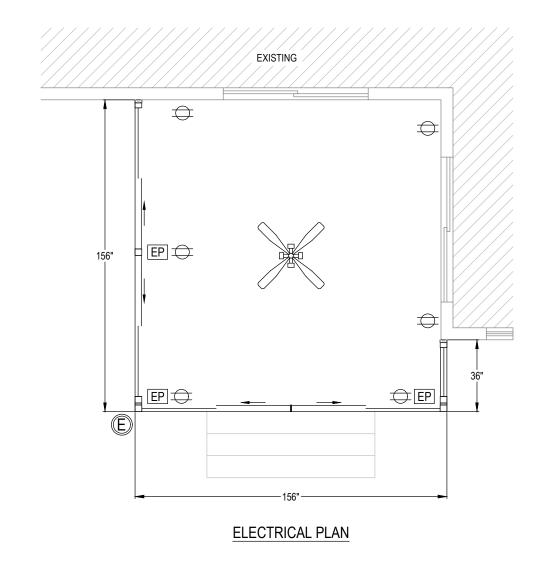
3/15/24	-
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SHEET 4 OF 9	-

KEVIN WILLIAMS 76 GROVER PLACE CAMERON, NC 28326 JOB #21002

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GDI ELECTRICAL SYMBOL LEGEND

EP

ELECTRICAL RACEWAY POST

 \bigcirc

DUPLEX RECEPTACLE

E

EXIT LIGHT



CEILING FAN W/ LIGHT

DATE 3/15/24	-	
DRAWN PIH	-	
SCALE 1/4" = 1'-0"	-	
SHEET 5 OF 9	-	

KEVIN WILLIAMS 76 GROVER PLACE CAMERON, NC 28326 JOB #21002

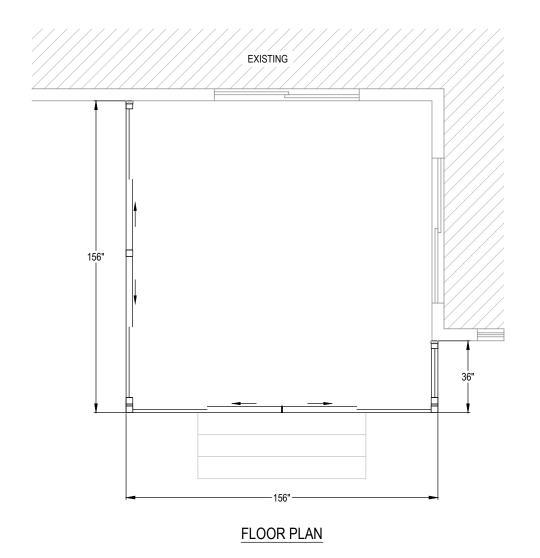
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ERIC OETJEN, P.E., M. ENG. NC. PROFESSIONAL ENGINEER (NC. LIC. #049195) 5 GREENE STREET FORT THOMAS, KY. 41075 PH. # 859-393-9049



ENGINEER'S STAMP APPLIES TO SUNROOM STRUCTURE ONLY; ELECTRICAL BY OTHERS



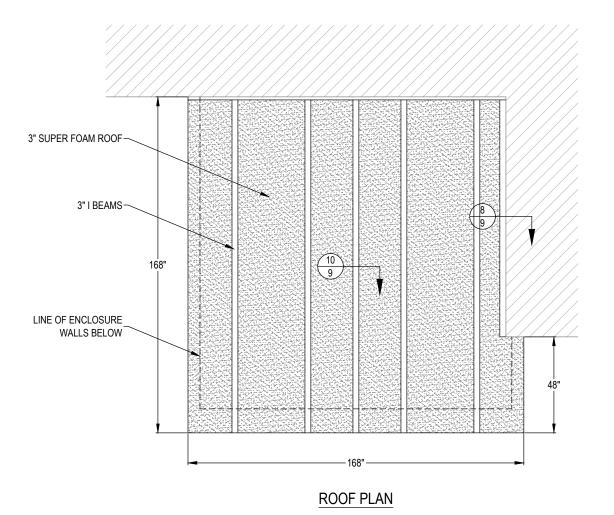
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SHEET 6 OF 9	_

KEVIN WILLIAMS 76 GROVER PLACE CAMERON, NC 28326 JOB #21002

RALEIGH 951 AVIATION PKWY, SUITE 1000 MORRISVILLE, NC 27560 984-212-8850







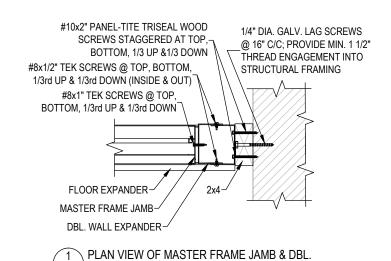
DATE 3/15/24	-
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SCALE 1/4" = 1'-0"	-
SHEET	_

KEVIN WILLIAMS 76 GROVER PLACE CAMERON, NC 28326 JOB #21002

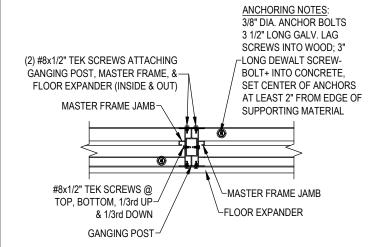
RALEIGH 951 AVIATION PKWY, SUITE 1000 MORRISVILLE, NC 27560 984-212-8850



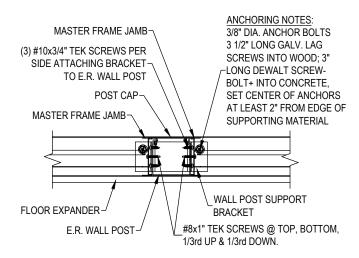




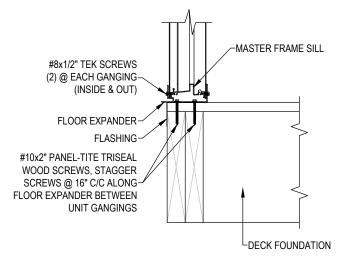
 ${f/}$ EXPANDER CONNECTION @ EXISTING WALL



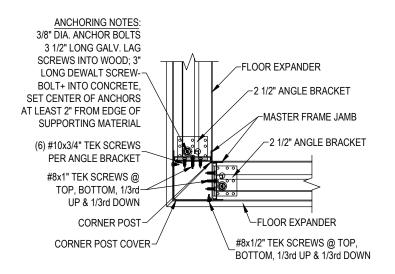
4 PLAN VIEW OF MASTER FRAME JAMBS 8 CONNECTION @ GANGING POST



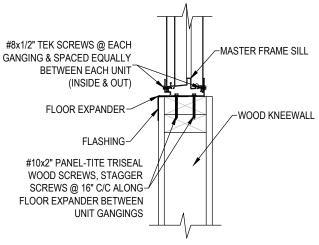
2 PLAN VIEW OF MASTER FRAME JAMBS 8 CONNECTION @ E.R. WALL POST



5 SECTION THROUGH MASTER FRAME SILL 8 CONNECTION @ DECK FOUNDATION



3 PLAN VIEW OF MASTER FRAME JAMBS
8 CONNECTION @ CORNER POST



6 SECTION THROUGH MASTER FRAME SILL CONNECTION @ WOOD KNEEWALL

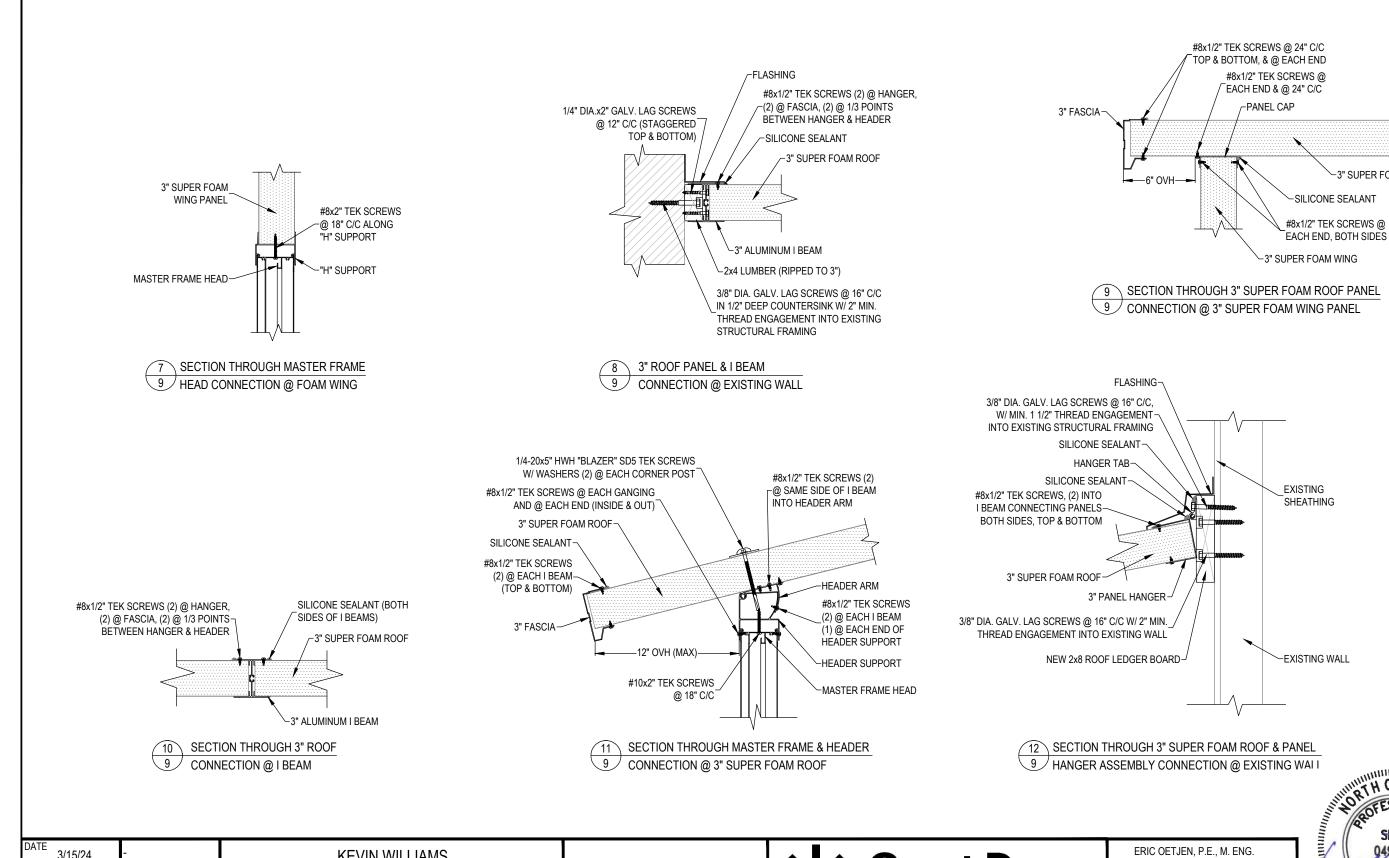
DATE 3/15/24	-
DRAWN PIH	-
SCALE 1 1/2" = 1'-0"	-
SHEET 8 OF 9	-

KEVIN WILLIAMS 76 GROVER PLACE CAMERON, NC 28326 JOB #21002

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3/15/24 **KEVIN WILLIAMS** 76 GROVER PLACE CAMERON, NC 28326 1 1/2" = 1'-0" JOB #21002 9 OF 9

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NC. PROFESSIONAL ENGINEER (NC. LIC. #049195) **5 GREENE STREET** FORT THOMAS, KY. 41075 PH. #859-393-9049



-3" SUPER FOAM ROOF