



GREAT DAY IMPROVEMENTS, RALEIGH
MILLER RESIDENCE

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)

DEAD LOADS:

1. ROOF: 15 PSF
2. WALLS: 20 PSF
3. FLOOR: 10 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

THIS SUNROOM IS NOT TO BE CONDITIONED
OR USED AS A PERMANENT LIVING AREA.

NOTES:

1. ALLVIEW (AVI) SUNROOM; WHITE IN COLOR
2. CONSTRUCT SUNROOM ON EXISTING DECK
3. NO HEAT BY GDI; ELECTRICAL BY GDI
4. ALL DECK LUMBER IS PRESSURE TREATED SYP #2 OR BETTER
5. THIS SUNROOM IS CONSIDERED AS NON-CONDITIONED SPACE, EXEMPT FROM ENERGY REQUIREMENTS (PER 2015 IRC SECTION N1102.1, NOTE 2)

<u>DRAWING #</u>	<u>DESCRIPTION</u>
1	COVER
2	ELEVATION "A" WALL
3	ELEVATION "B" WALL
4	DECK PLAN
5	ELECTRICAL PLAN
6	FLOOR PLAN
7	ROOF PLAN
8	SYSTEM DETAILS
9	SYSTEM DETAILS
10	SYSTEM DETAILS

ALLOWABLE SOIL PRESSURE CONSIDERED
(PRESUMPTIVE) = 2000 PSF

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

SQUARE FOOTAGE OF SUNROOM = 155

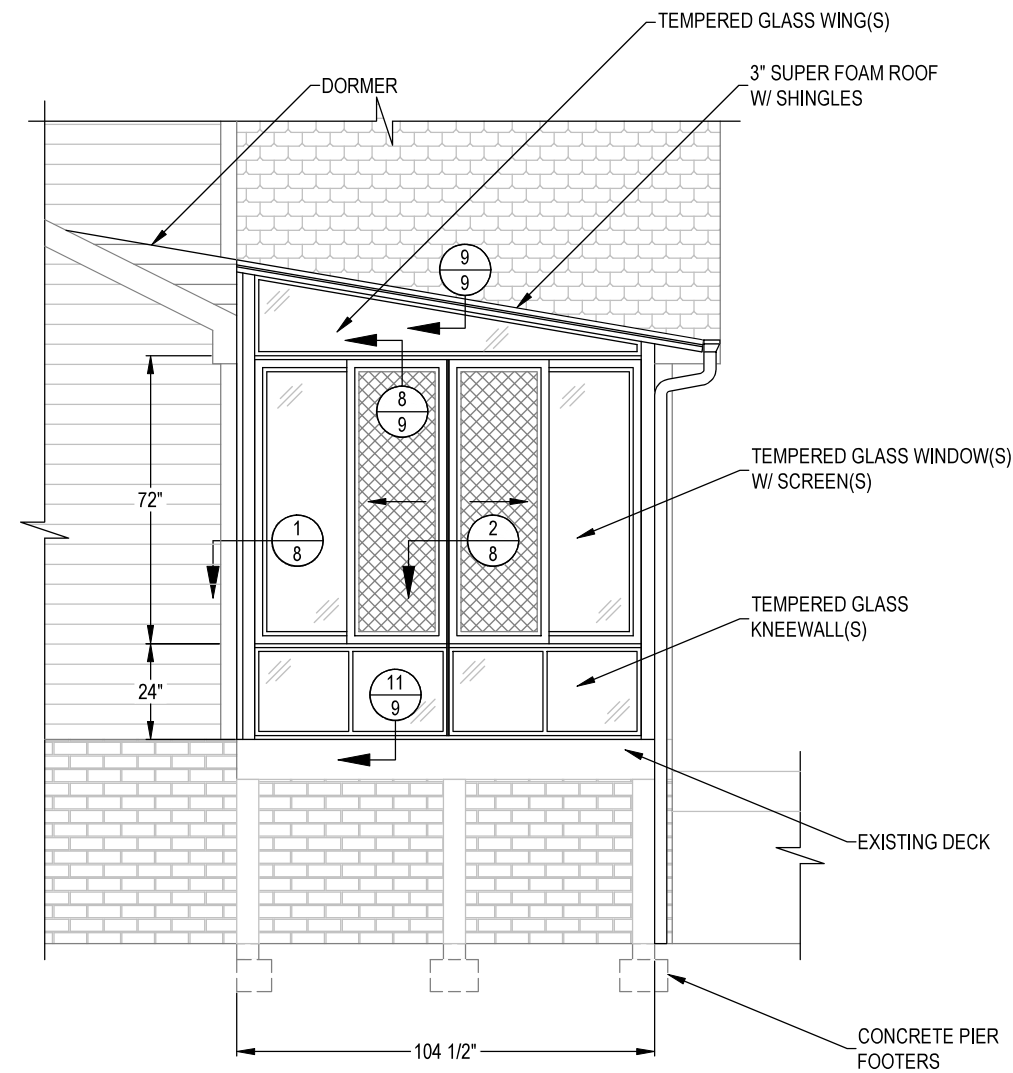


ERIC OETJEN, P.E., M. ENG.
NC. PROFESSIONAL ENGINEER (NC. LIC. #049195)
5 GREENE STREET
FORT THOMAS, KY. 41075
PH. # 859-393-9049

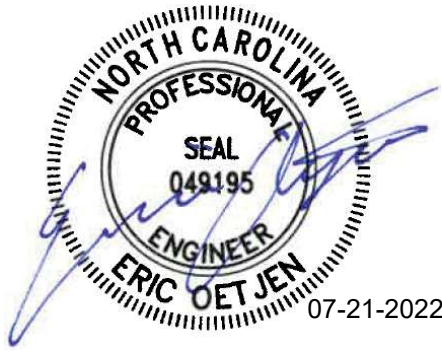
LOCATION	GDI - RALEIGH 951 AVIATION PKWY, SUITE 1000 MORRISVILLE, NC 27560 984-212-8850
REV. A	7/19/22
DATE	7/15/22
DRAWN	PIH
SCALE	1/4" = 1'-0"
SHEET	1 OF 10

KATHY & GREG MILLER
432 LAKESIDE LANE
SANFORD, NC 27332
JOB # 20601

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ELEVATION - "A" WALL



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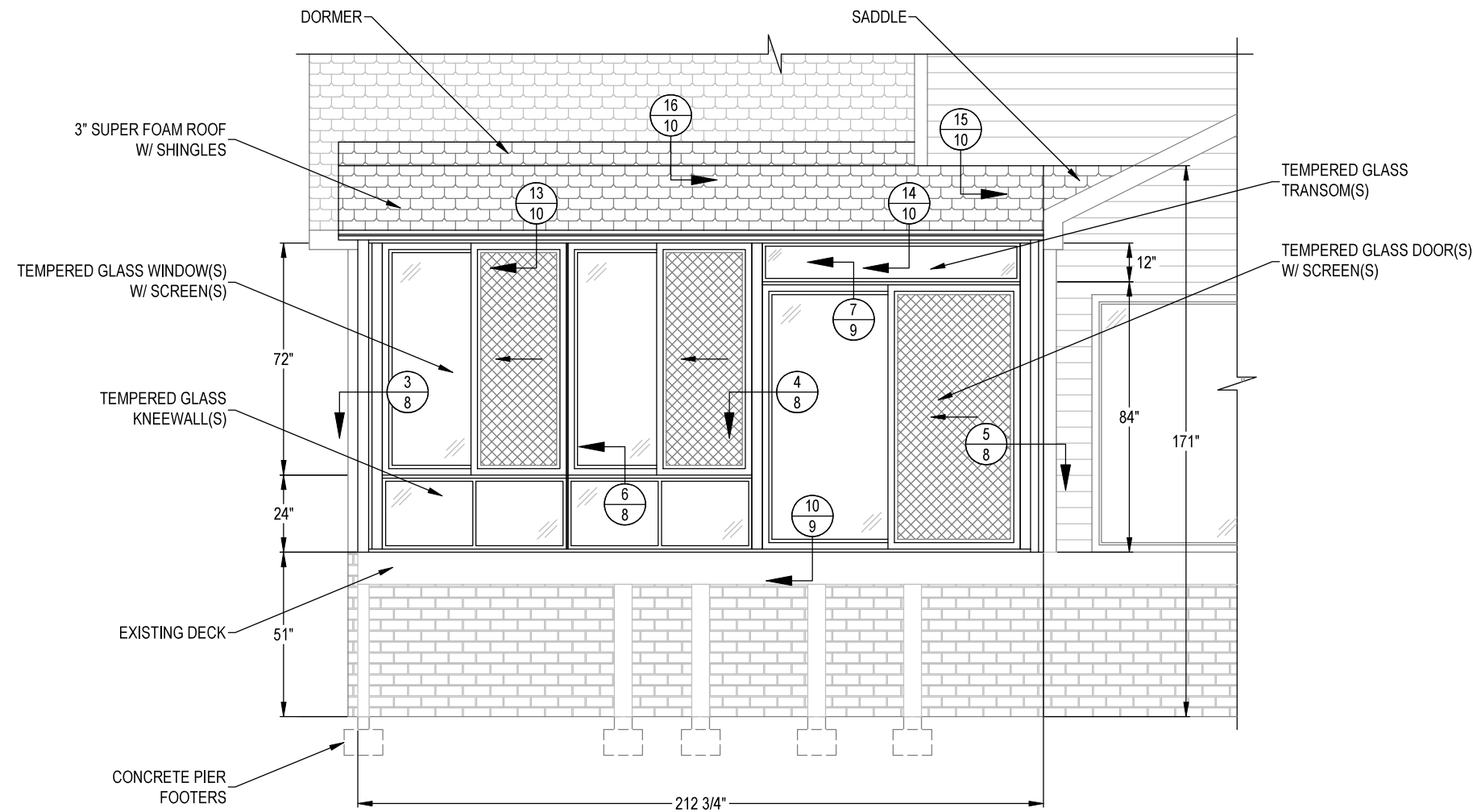
LOCATION
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DRAWN	PIH
SCALE	1/4" = 1'-0"
SHEET	2 OF 10

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



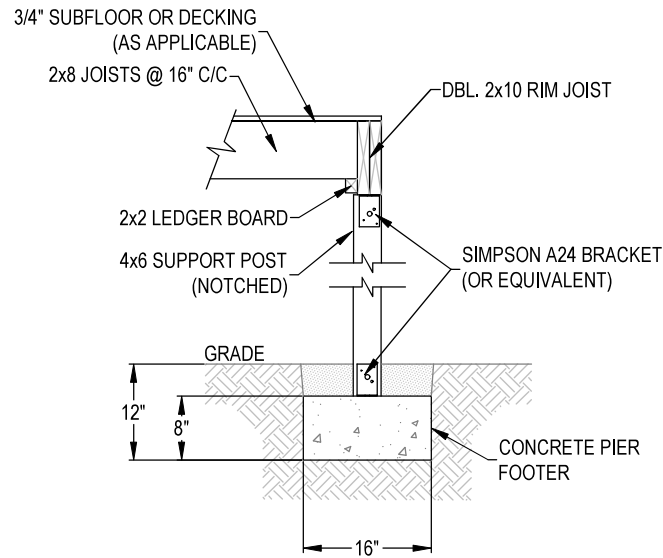
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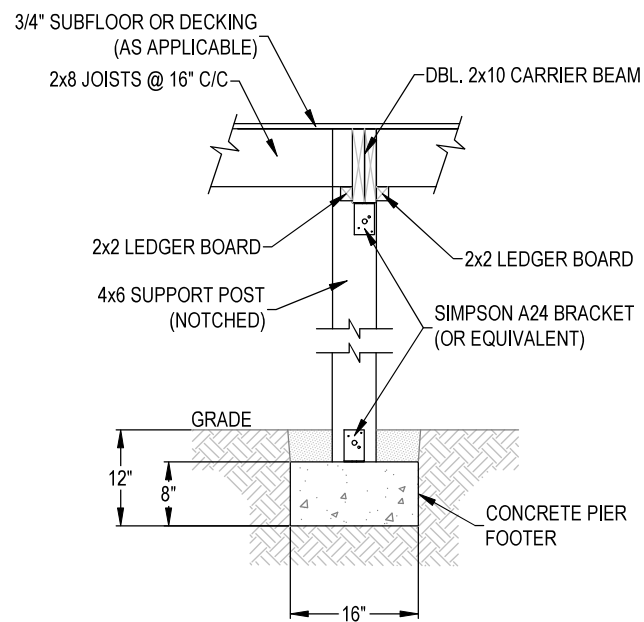
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DRAWN	PIH		
SCALE	1/4" = 1'-0"		
SHEET	3 OF 10		

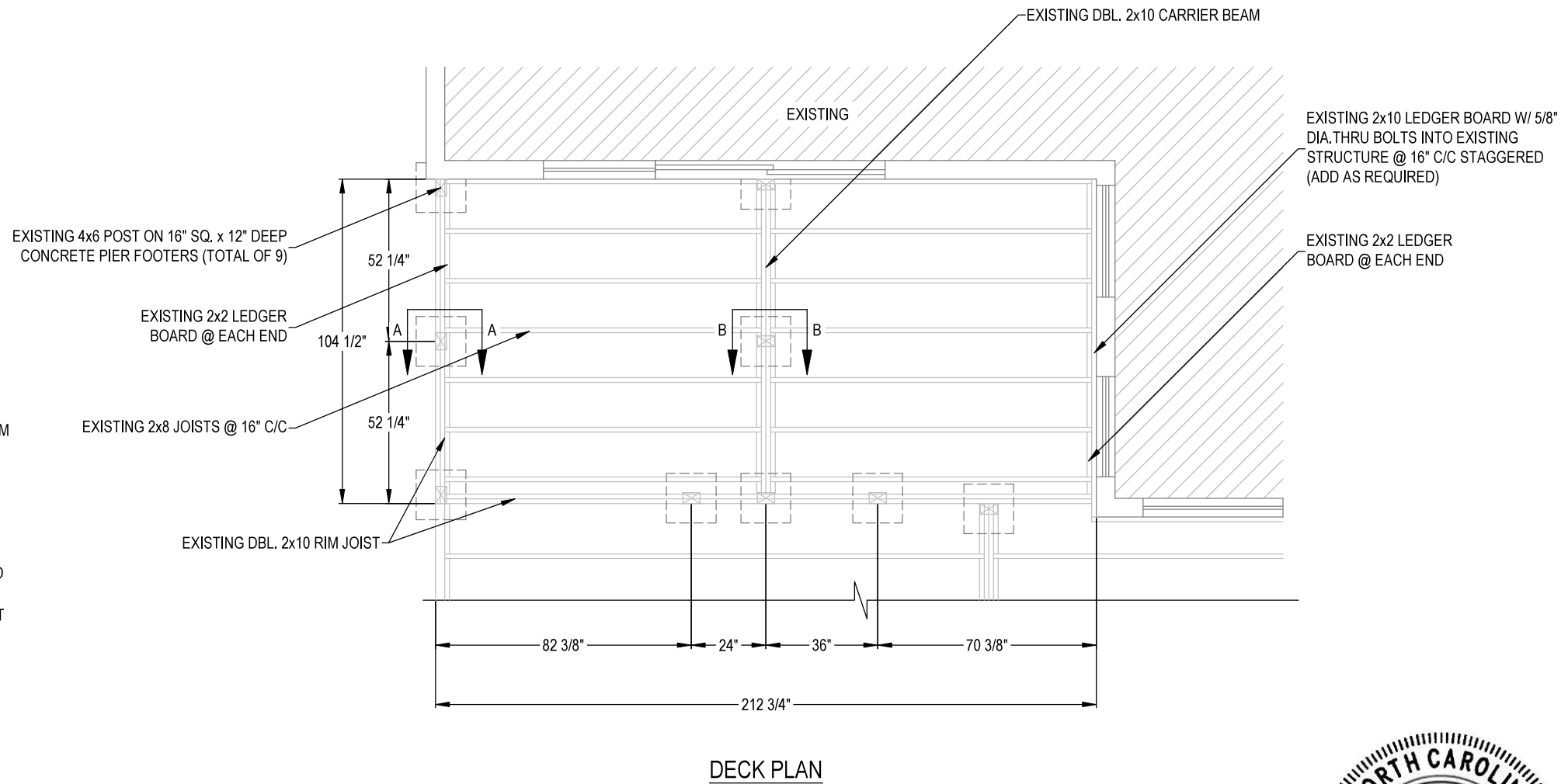
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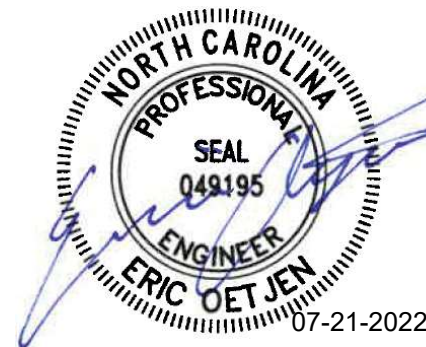
SECTION A-A
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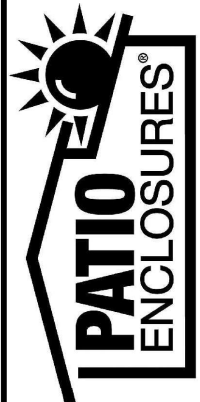
SECTION B-B
SCALE: 1/2" = 1'-0"



DECK PLAN



NOTE: ALL DECK LUMBER IS PRESSURE TREATED SOUTHERN YELLOW PINE



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7/15/22

DRAWN
PIH

SCALE
AS NOTED

SHEET
4 OF 10

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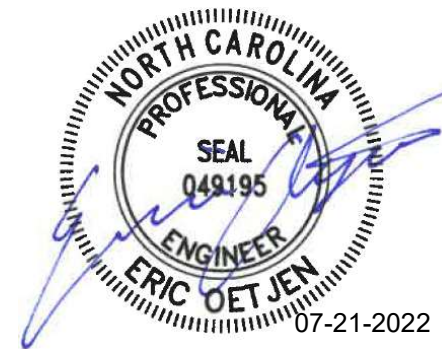
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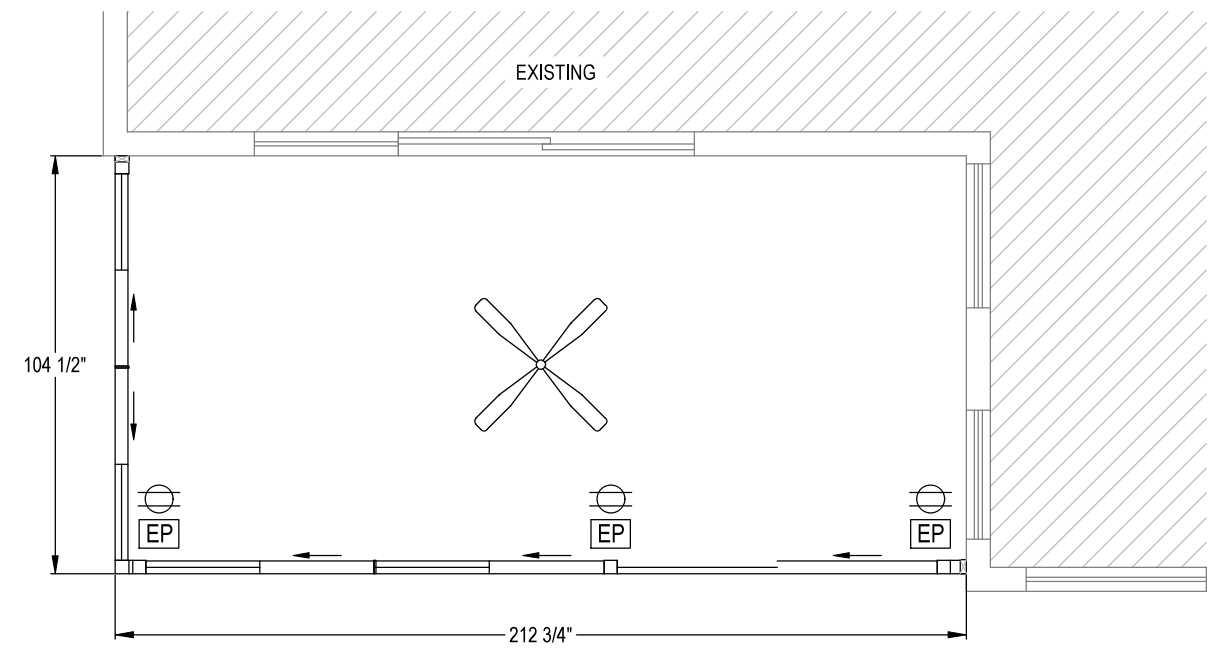
DATE 7/15/22

DRAWN PIH
 SCALE 1/4" = 1'-0"
 SHEET 5 OF 10





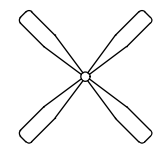
ENGINEER'S STAMP APPLIES TO SUNROOM STRUCTURE; ELECTRICAL BY OTHERS

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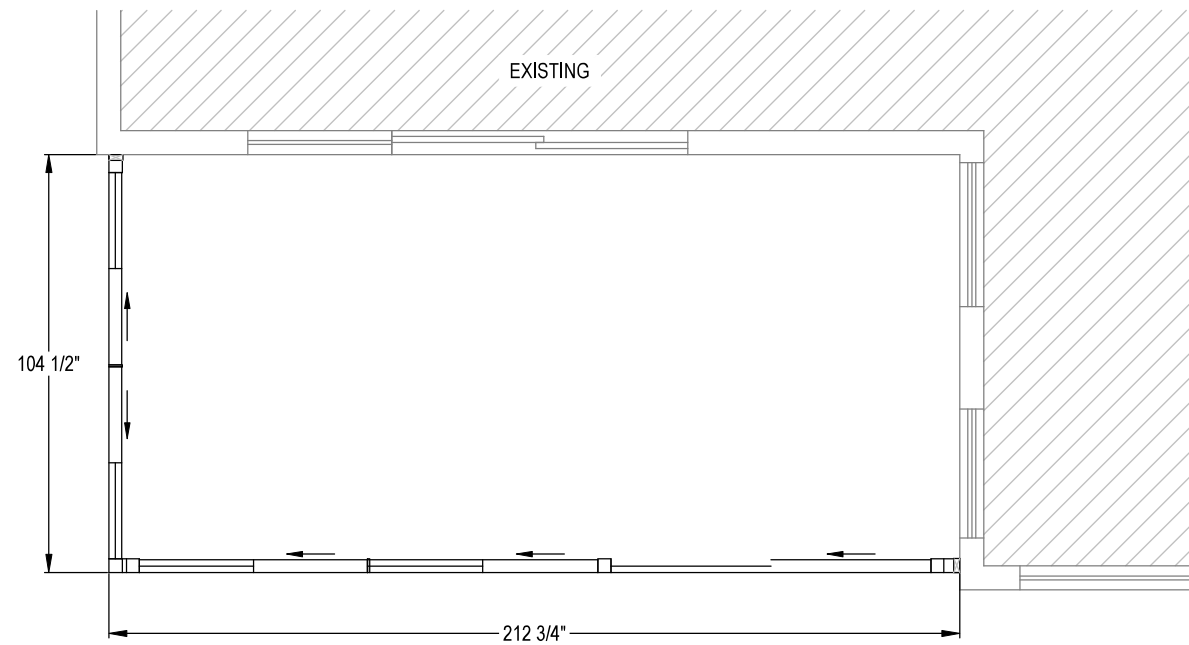


ELECTRICAL PLAN

GDI ELECTRICAL SYMBOL LEGEND

-  ELECTRICAL RACEWAY POST
-  DUPLEX RECEPTACLE
-  CEILING FAN

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FLOOR PLAN



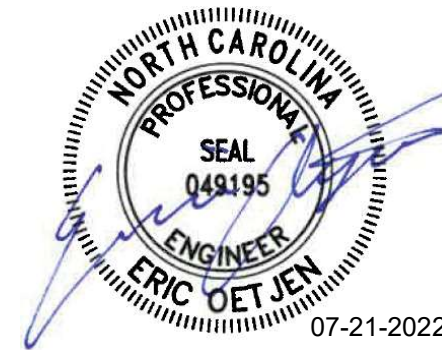
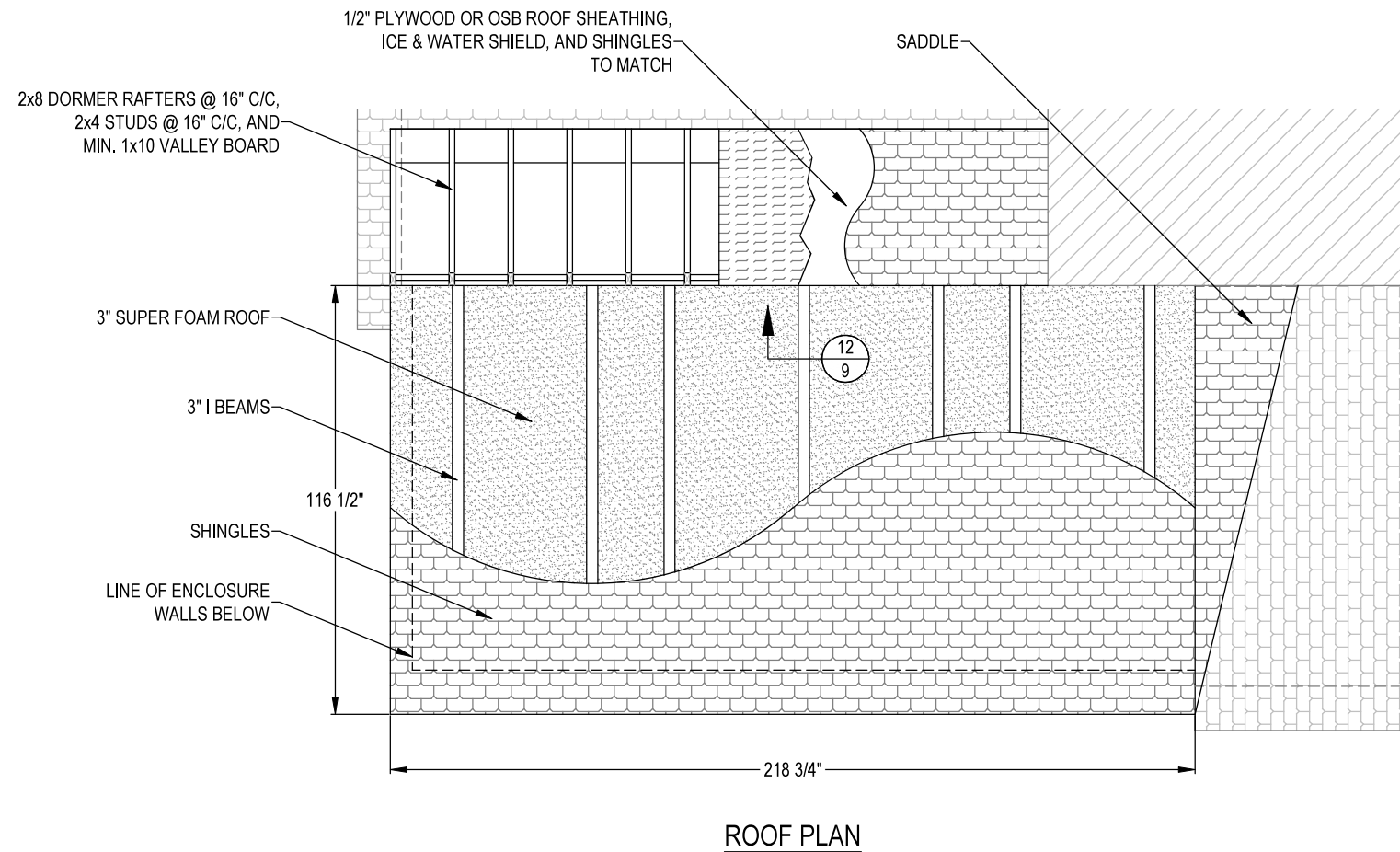
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LOCATION
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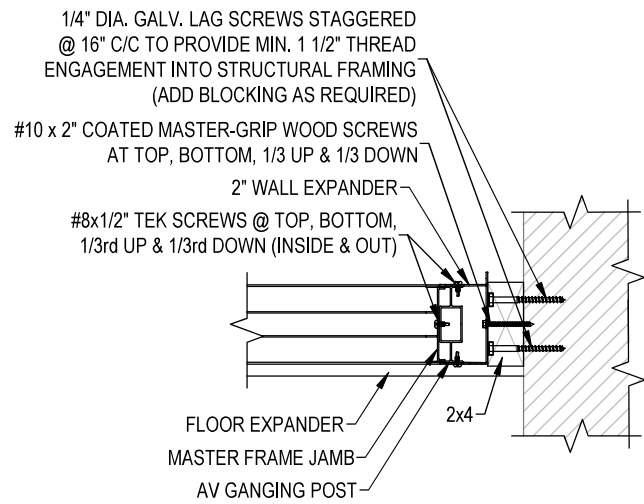
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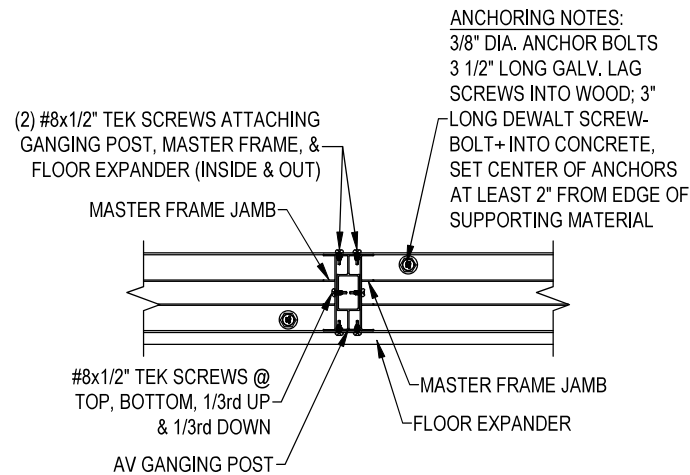
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	7/15/22		

DRAWN PIH
 SCALE 1/4" = 1'-0"
 SHEET 7 OF 10

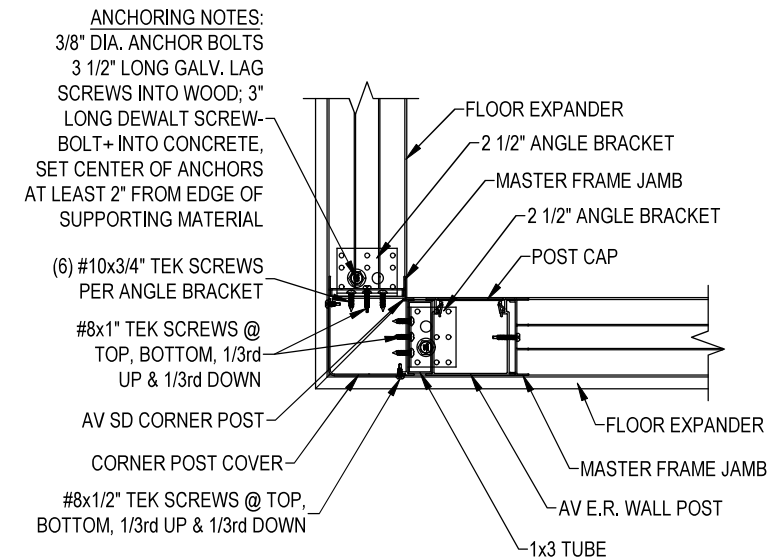
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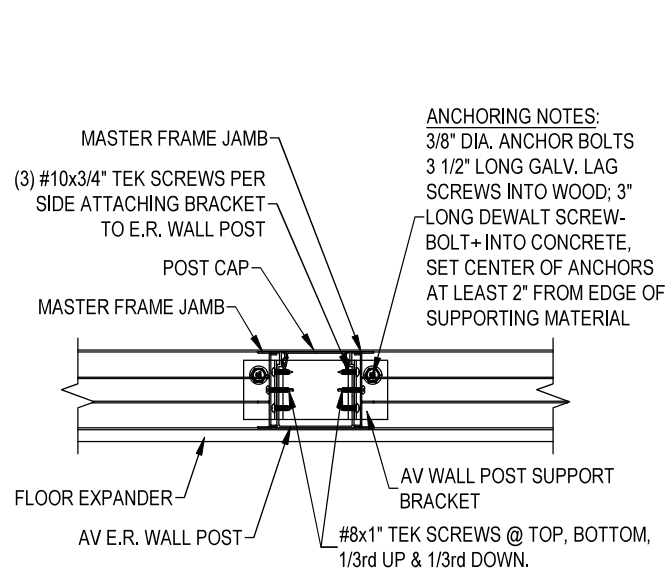
1 PLAN VIEW OF MASTER FRAME JAMB
8 CONNECTION @ EXISTING WALL



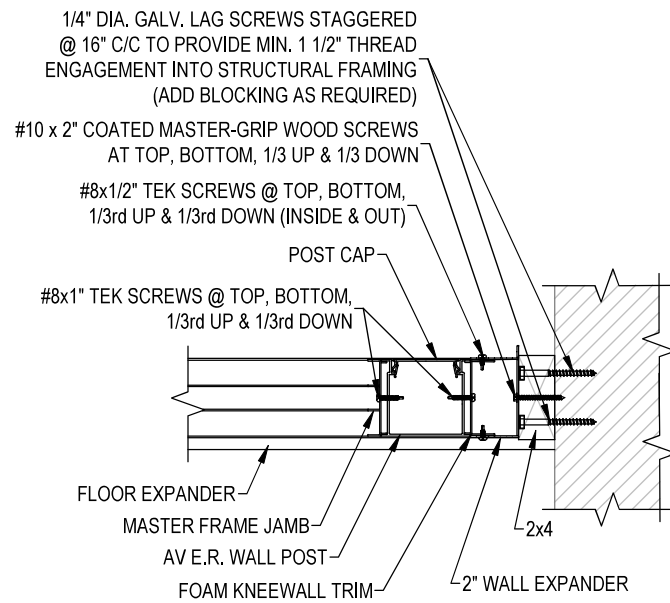
2 PLAN VIEW OF MASTER FRAME JAMBS
8 CONNECTION @ GANGING POST



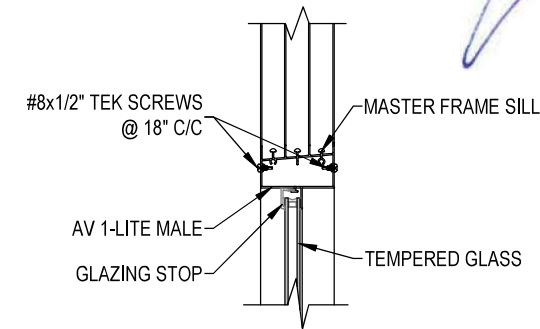
3 PLAN VIEW OF MASTER FRAME JAMBS & AV E.R.
8 WALL POST CONNECTION @ CORNER POST



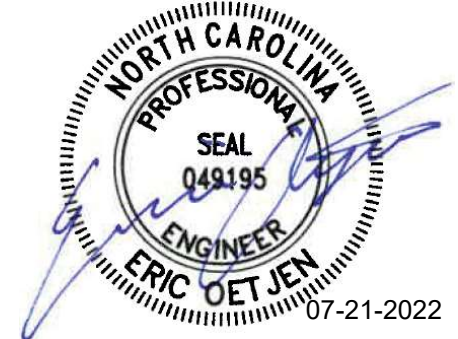
4 PLAN VIEW OF MASTER FRAME JAMBS
8 CONNECTION @ AV E.R. WALL POST



5 PLAN VIEW OF MASTER FRAME JAMB & AV E.R.
8 WALL POST CONNECTION @ EXISTING WALL



6 SECTION THROUGH MASTER FRAME SILL
8 CONNECTION @ GLASS KNEEWALL



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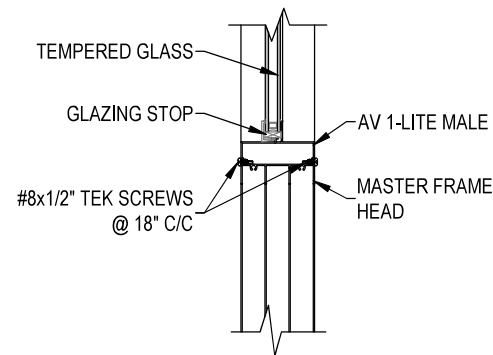
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SHEET	8 OF 10

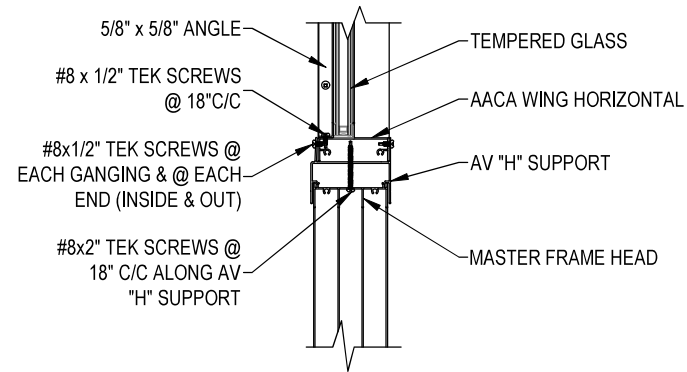
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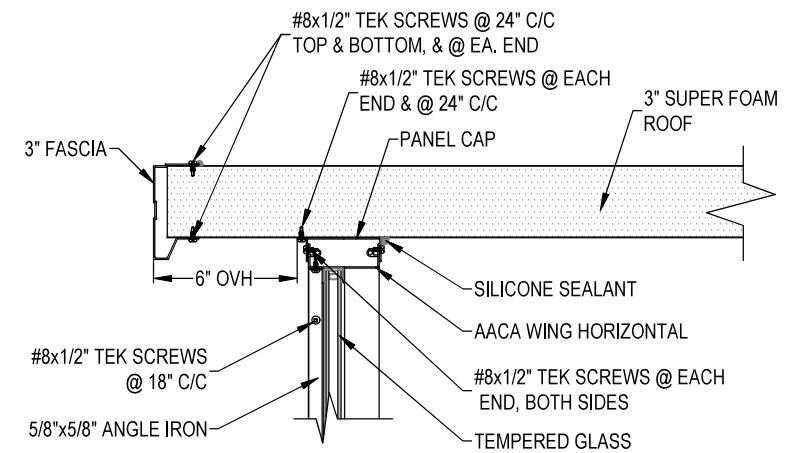
BY GREAT DAY IMPROVEMENTS, LLC



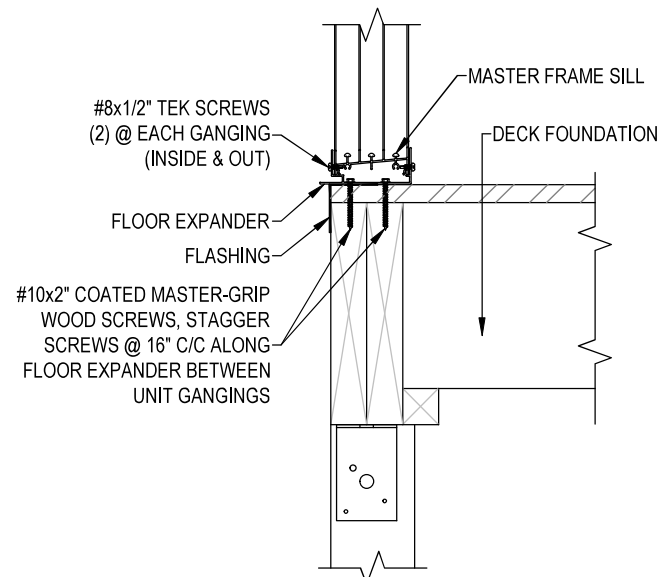
7 SECTION THROUGH MASTER FRAME HEAD CONNECTION @ GLASS TRANSOM



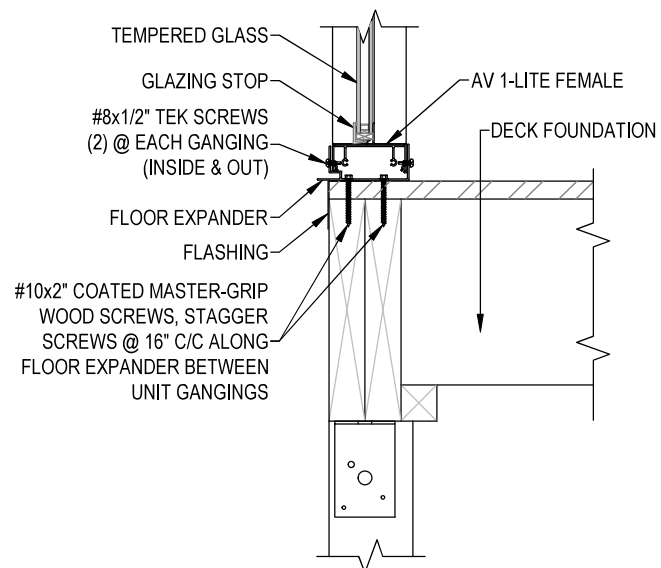
8 SECTION THROUGH "H" & MASTER FRAME HEAD CONNECTION @ GLASS WING



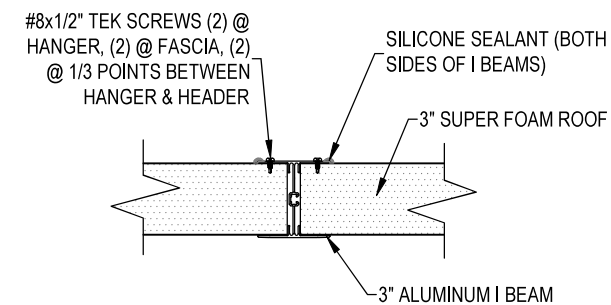
9 SECTION THROUGH 3" SUPER FOAM ROOF PANEL CONNECTION @ GLASS WING



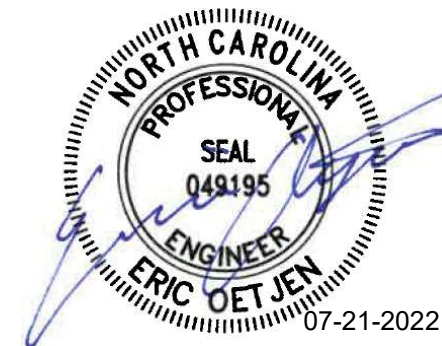
10 SECTION THROUGH MASTER FRAME SILL CONNECTION @ DECK FOUNDATION



11 SECTION THROUGH GLASS KNEEWALL CONNECTION @ DECK FOUNDATION



12 SECTION THROUGH 3" ROOF CONNECTION @ I BEAM



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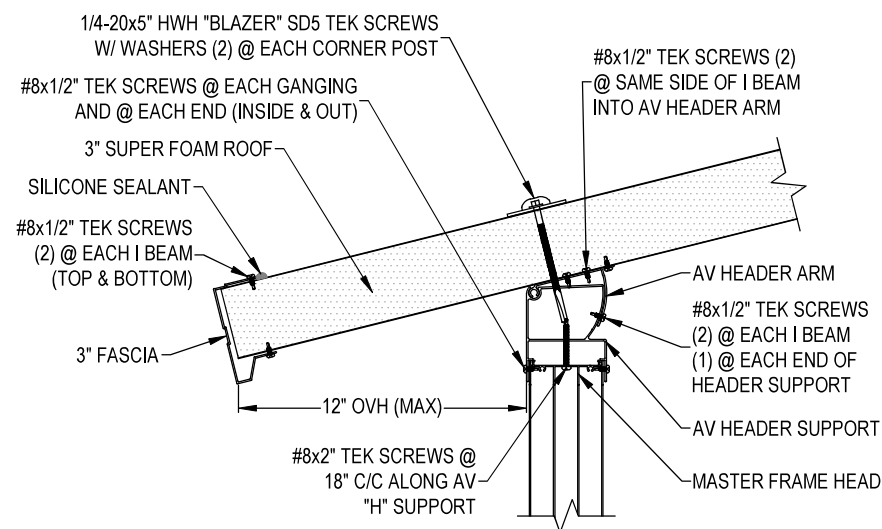
DRAWN PIH

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

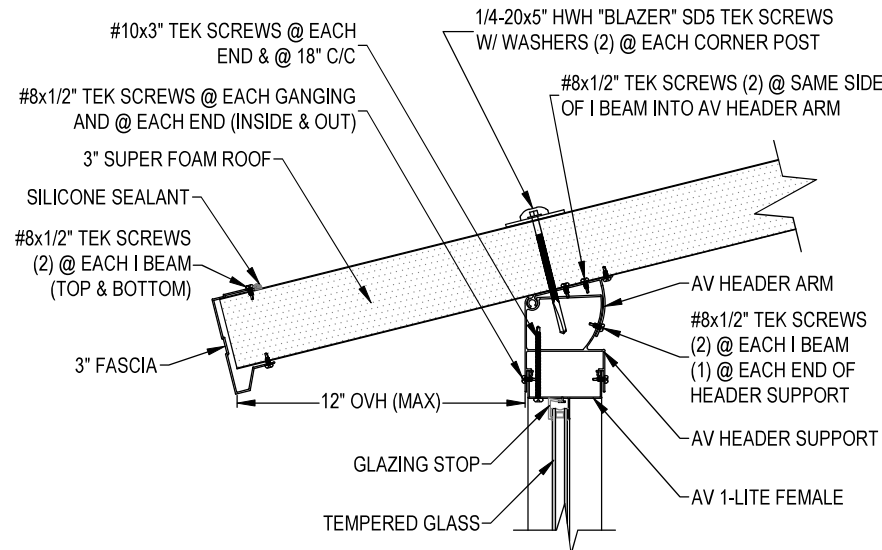
SHEET 9 OF 10

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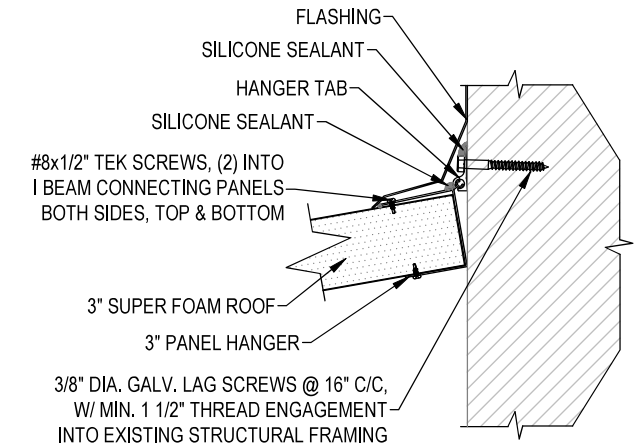
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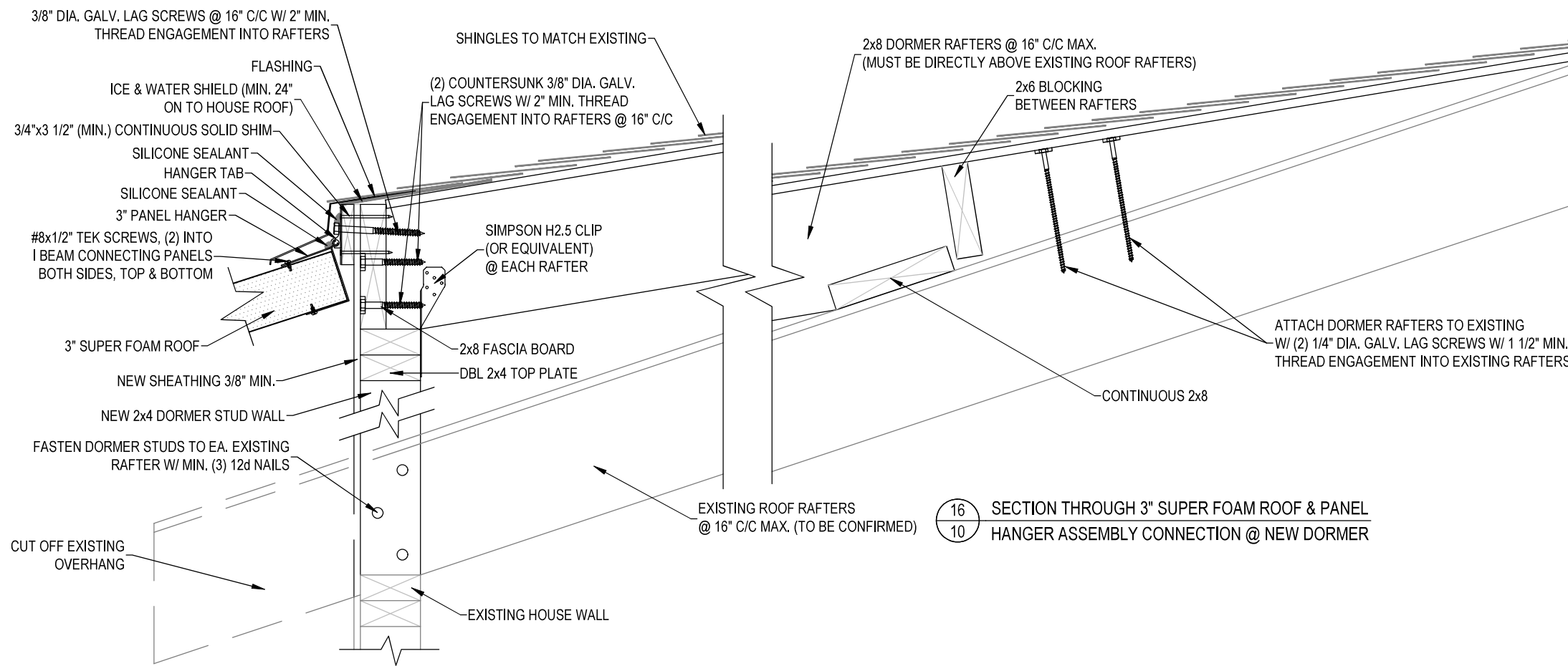
13 SECTION THROUGH MASTER FRAME & HEADER CONNECTION @ 3" SUPER FOAM ROOF



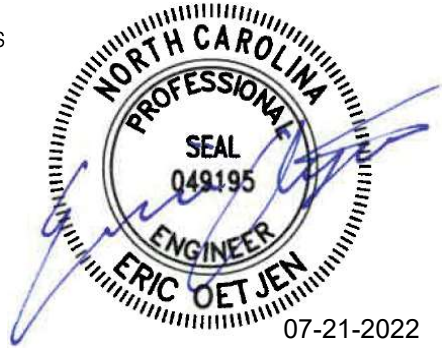
14 SECTION THROUGH TRANSOM & HEADER CONNECTION @ 3" SUPER FOAM ROOF



15 SECTION THROUGH 3" SUPER FOAM ROOF & PANEL HANGER ASSEMBLY CONNECTION @ EXISTING WALL



16 SECTION THROUGH 3" SUPER FOAM ROOF & PANEL HANGER ASSEMBLY CONNECTION @ NEW DORMER



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