

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: 118 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.

SQUARE FOOTAGE OF SUNROOM = 187


NOTES:

1. ALLVIEW (AAS) SUNROOM; WHITE IN COLOR
2. CONSTRUCT SUNROOM ON EXISTING CONCRETE
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

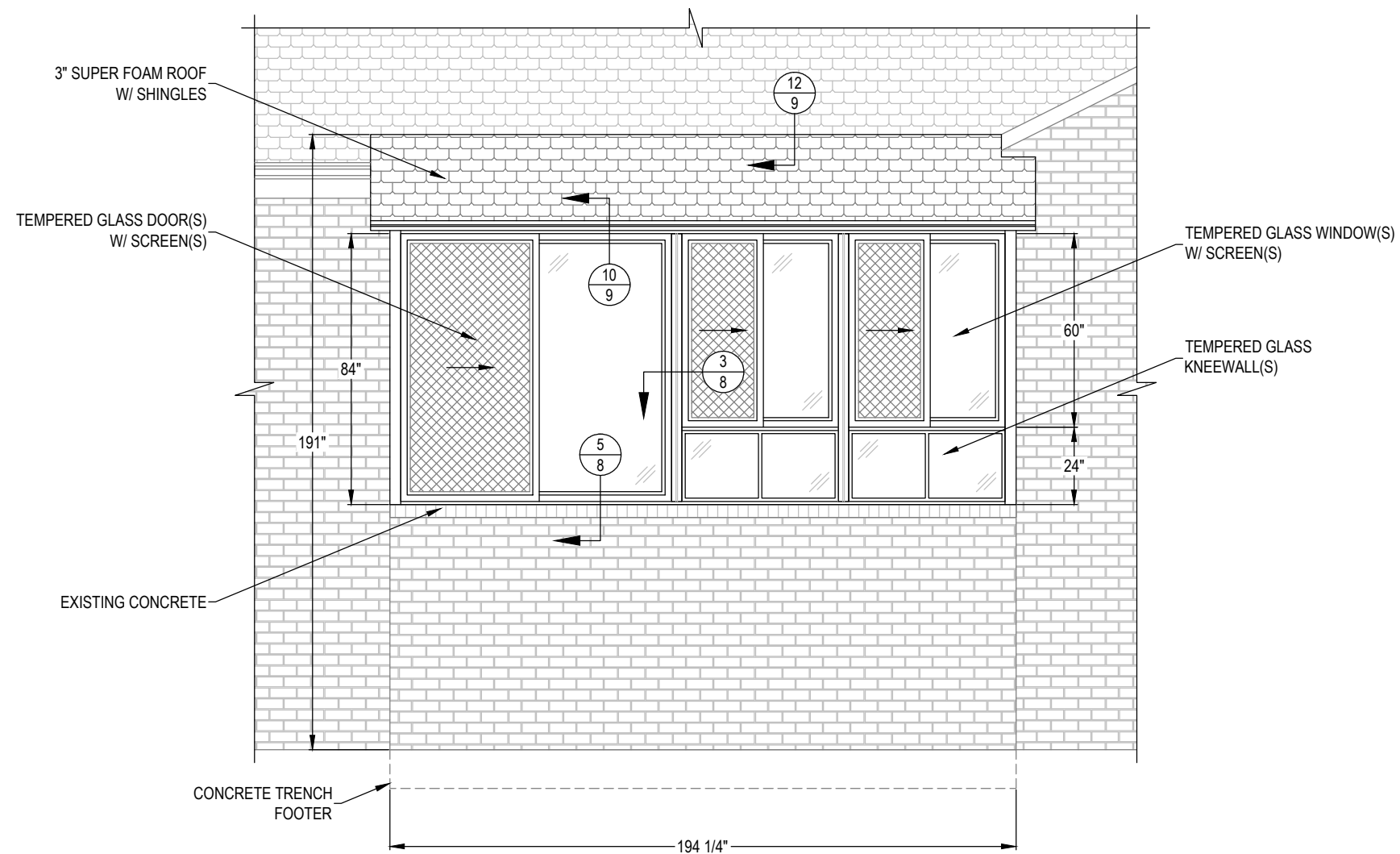
ALL FASTENERS AND HARDWARE USED TO CONNECT TO PRESSURE TREATED WOOD MEMBERS SHALL EITHER BE 304 OR 316 STAINLESS STEEL, OR HOT DIPPED GALVANIZED PER ASTM-A653 COATING DESIGNATION G-185 AND ASTM-A153
6. STRUCTURAL ALUMINUM
 - A) ALL EXTRUSIONS SHALL BE COMMERCIAL GRADE ALUMINUM SUPPLIED BY GREAT DAY IMPROVEMENTS, 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
ZUBIATE RESIDENCE

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

DATE 9/19/24	-	RAFAEL ZUBIATE 212 LAKELAND PORT SANFORD, NC 27332 JOB #21238	RALEIGH 951 AVIATION PKWY, SUITE 1000 MORRISVILLE, NC 27560 984-212-8850		ERIC OETJEN, P.E., M. ENG. NC. PROFESSIONAL ENGINEER (NC. LIC. #049195) 5 GREENE STREET FORT THOMAS, KY. 41075 PH. # 859-393-9049
DRAWN MTS	-				
SCALE NTS	-				
SHEET 1 OF 9	-				

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ELEVATION - "B" WALL
 (LANDING & STAIRS NOT SHOWN FOR CLARITY)

DATE	9/19/24
DRAWN	MTS
SCALE	1/4" = 1'-0"
SHEET	2 OF 9

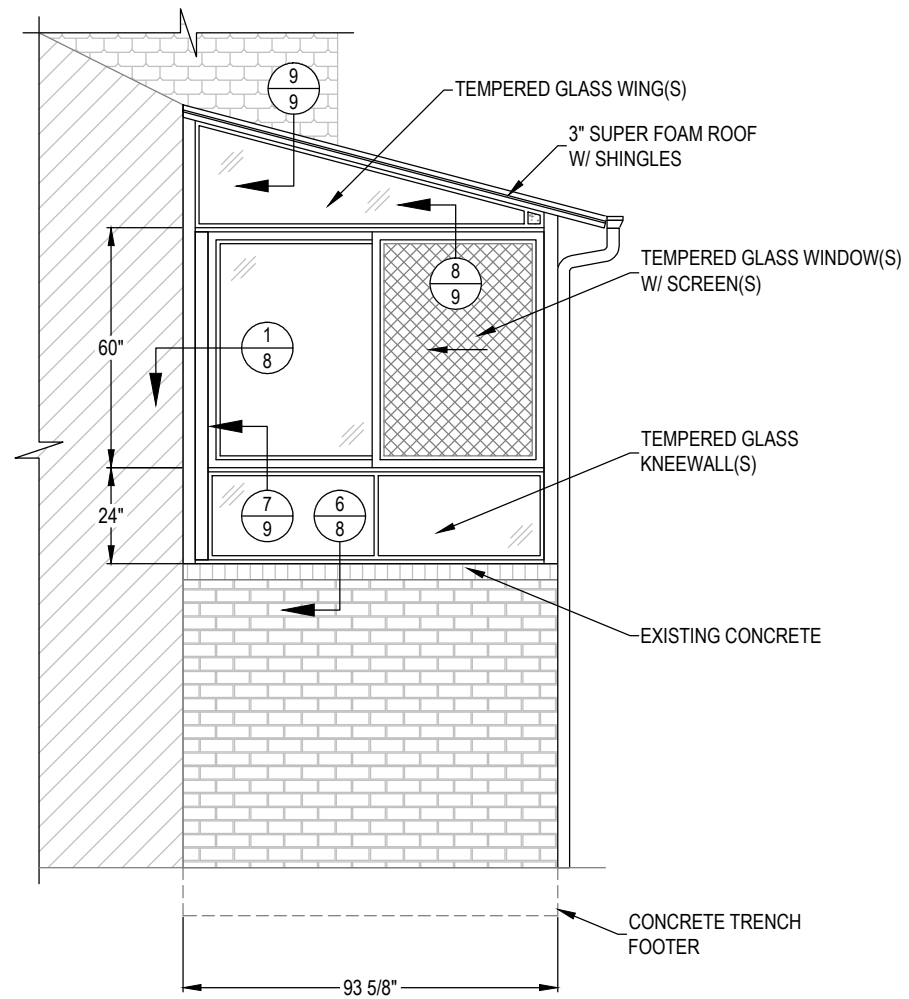
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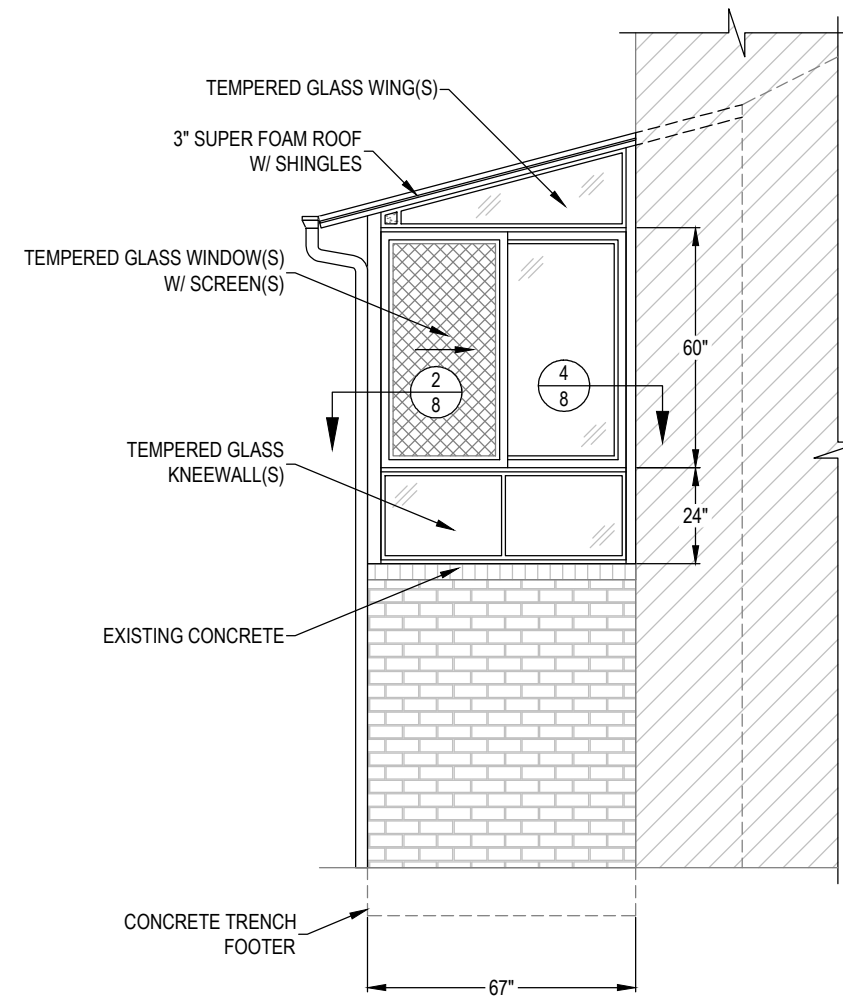


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ELEVATION - "A" WALL
(BUMP OUT NOT SHOWN FOR CLARITY)



ELEVATION - "C" WALL
(BUMP OUT NOT SHOWN FOR CLARITY)

DATE	9/19/24
DRAWN	MTS
SCALE	1/4" = 1'-0"
SHEET	3 OF 9

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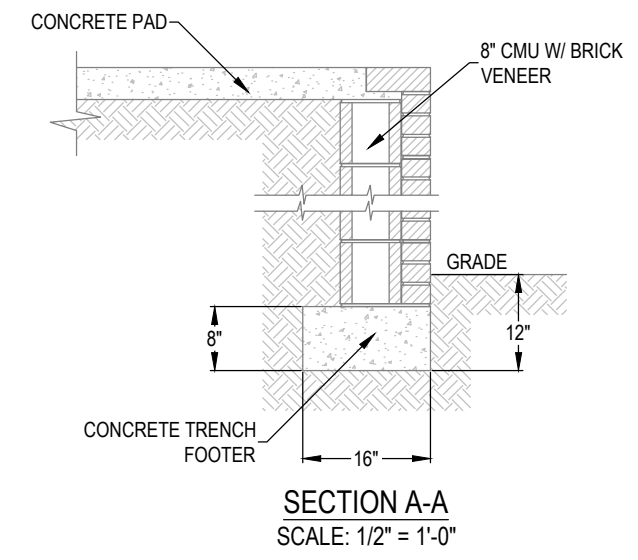
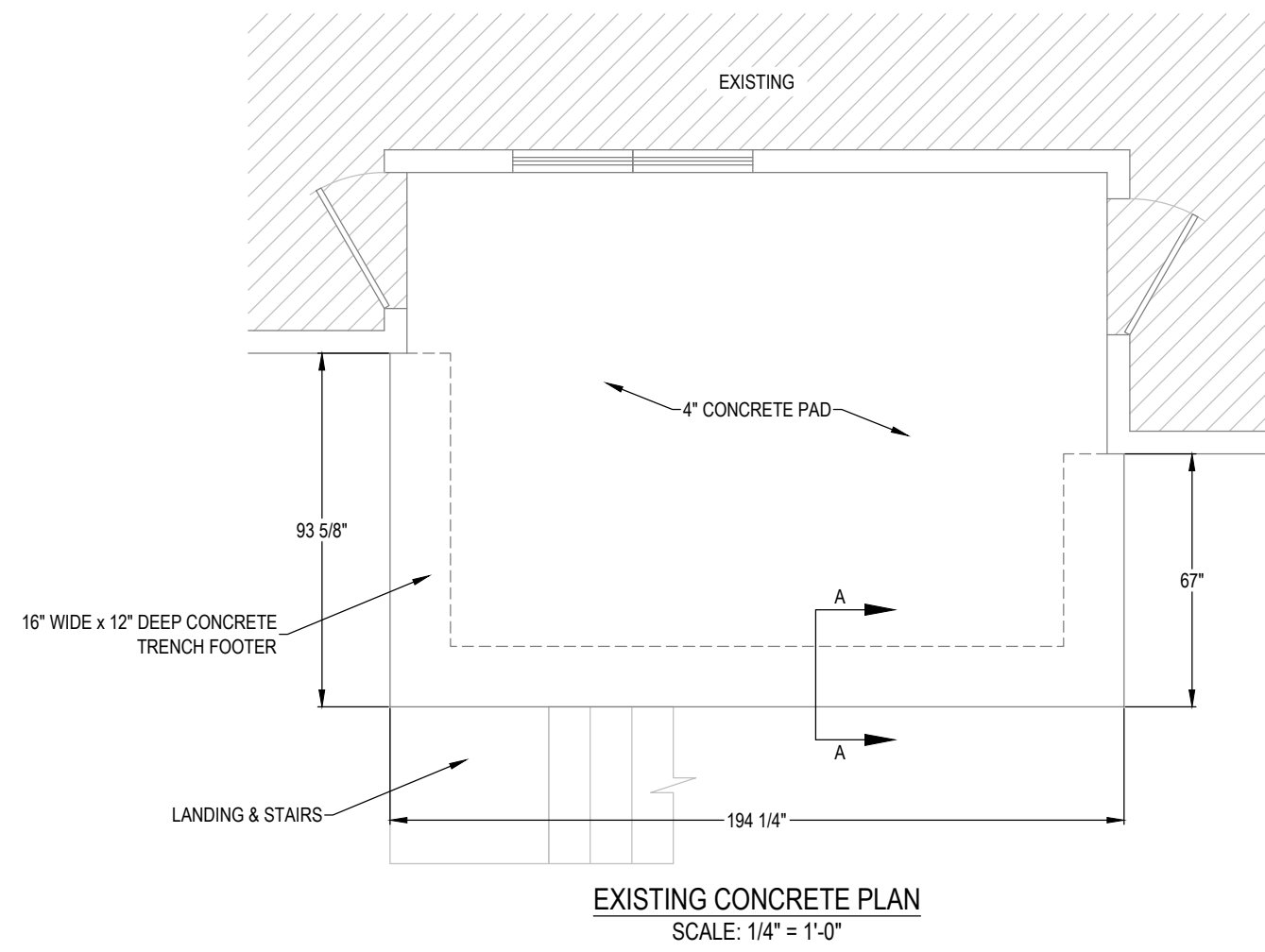
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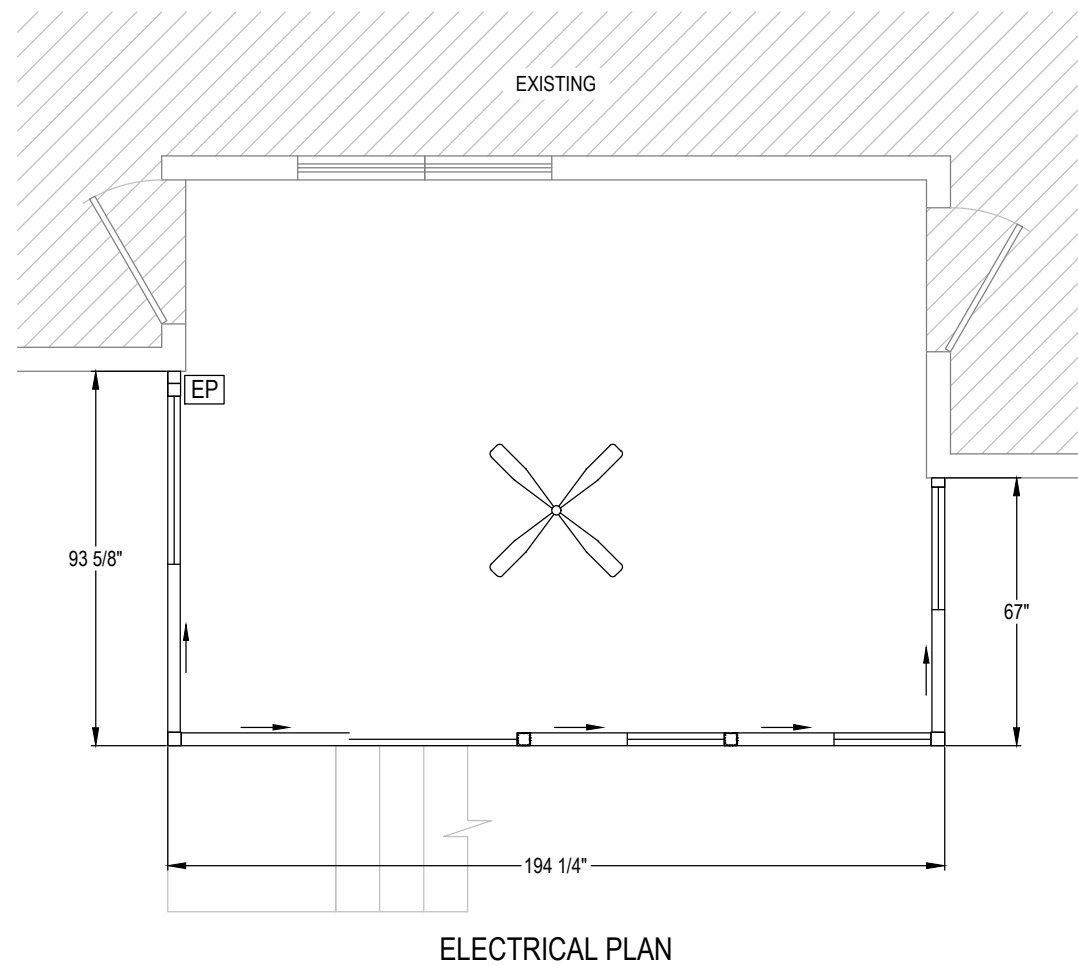
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SCALE	AS NOTED
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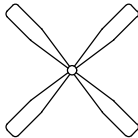
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GDI ELECTRICAL SYMBOL LEGEND	
EP	ELECTRICAL RACEWAY POST
	CEILING FAN

DATE	9/19/24	-
DRAWN	MTS	-
SCALE	1/4" = 1'-0"	-
SHEET	5 OF 9	-

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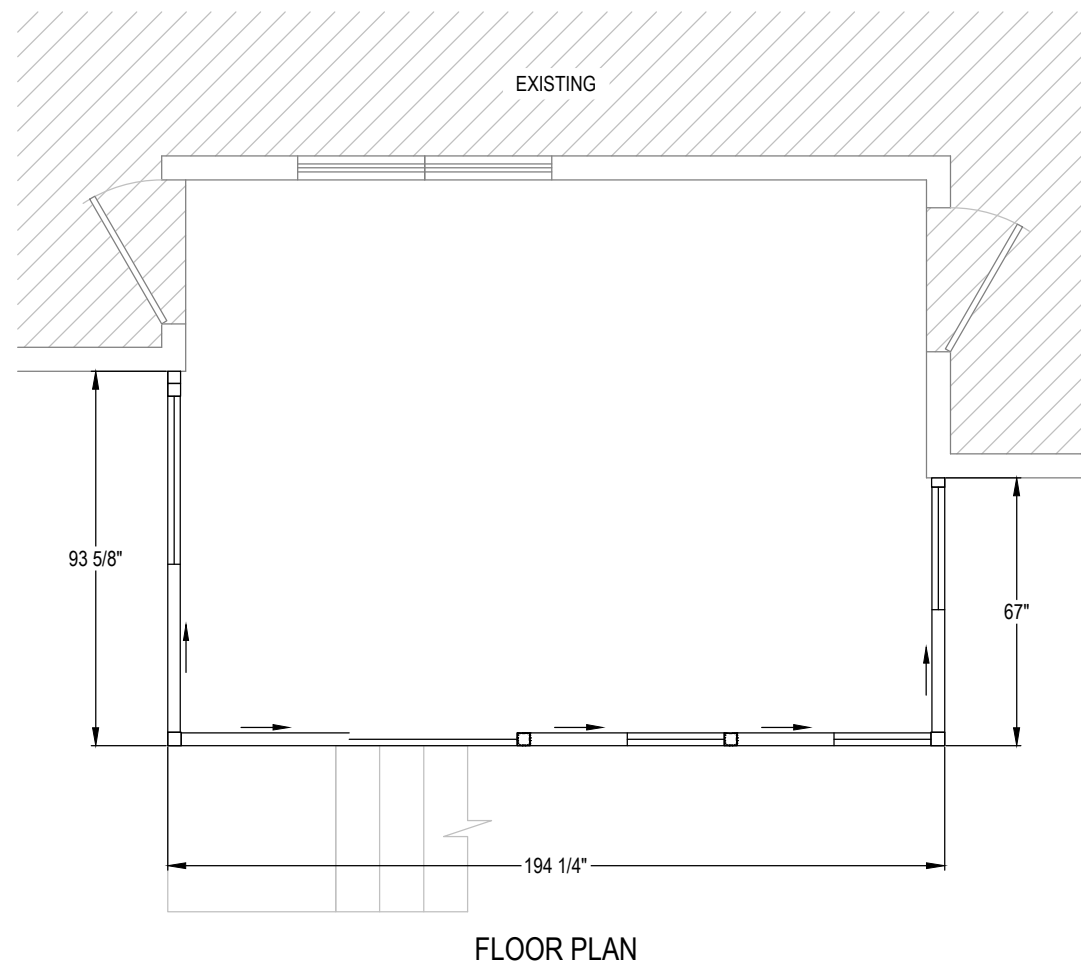
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ENGINEER'S STAMP APPLIES TO
 SUNROOM STRUCTURE ONLY;
 ELECTRICAL BY OTHERS

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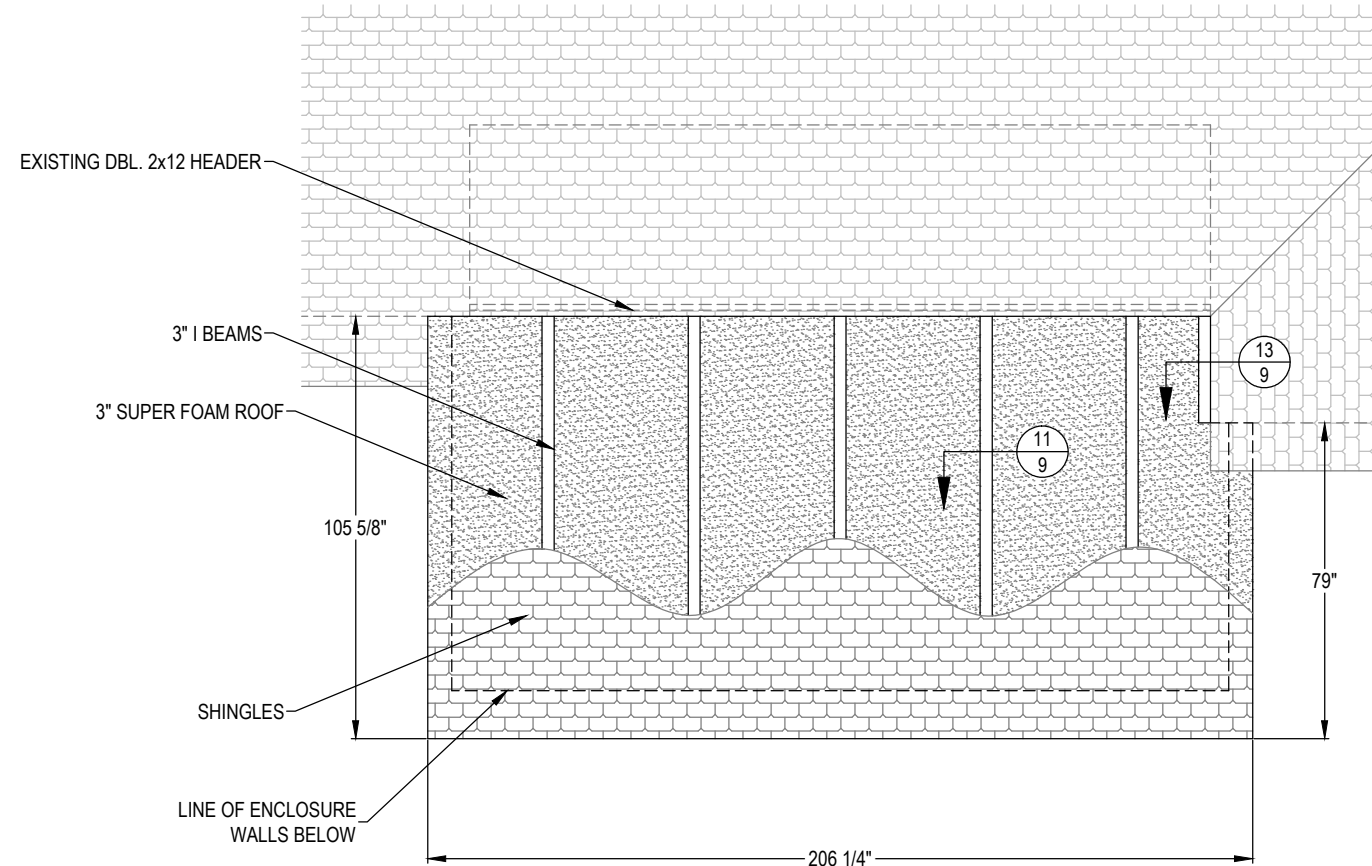
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SHEET	6 OF 9	-

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ROOF PLAN

DATE	9/19/24	-
DRAWN	MTS	-
SCALE	1/4" = 1'-0"	-
SHEET	7 OF 9	-

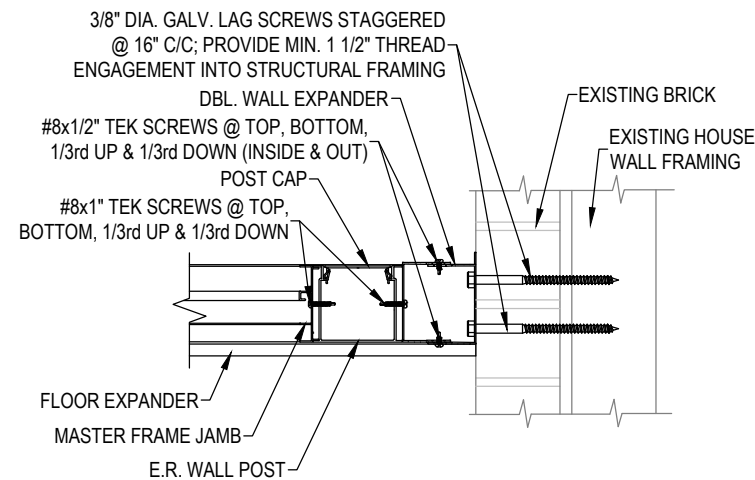
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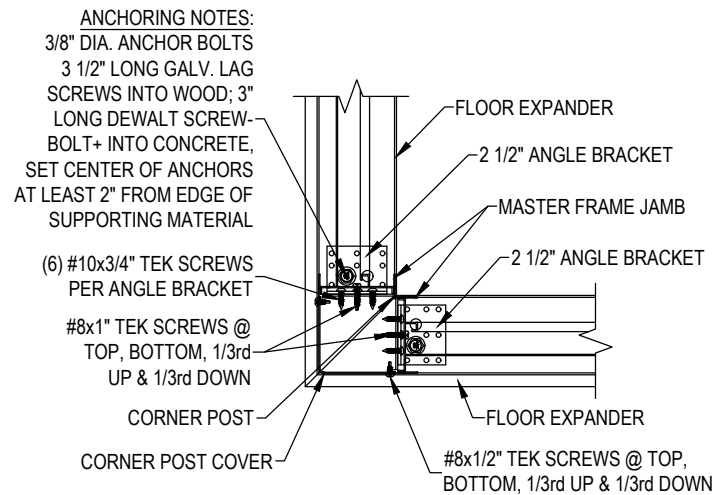


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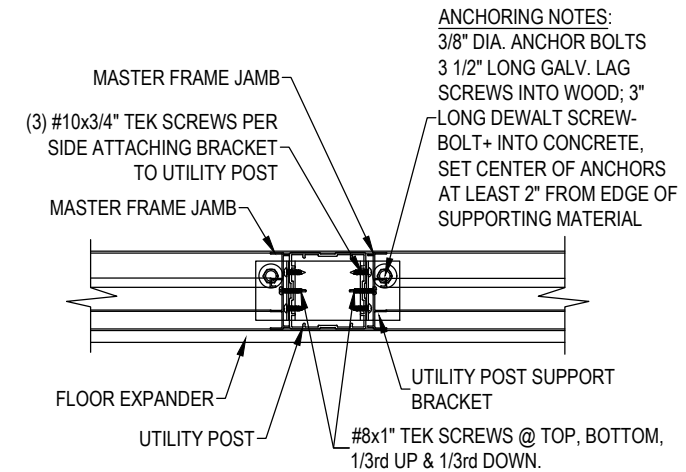
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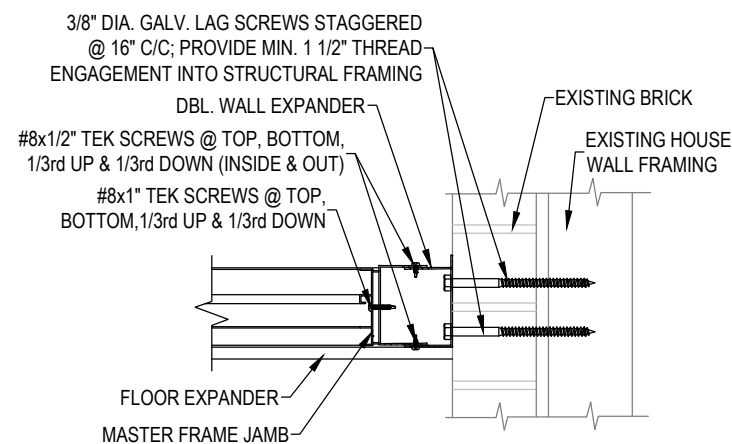
1 PLAN VIEW OF MASTER FRAME JAMB & E.R. WALL
8 POST CONNECTION @ EXISTING BRICK WALL



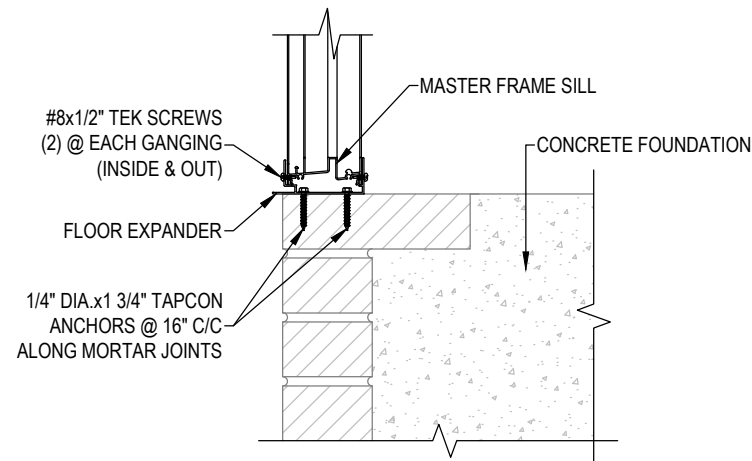
2 PLAN VIEW OF MASTER FRAME JAMBS
8 CONNECTION @ CORNER POST



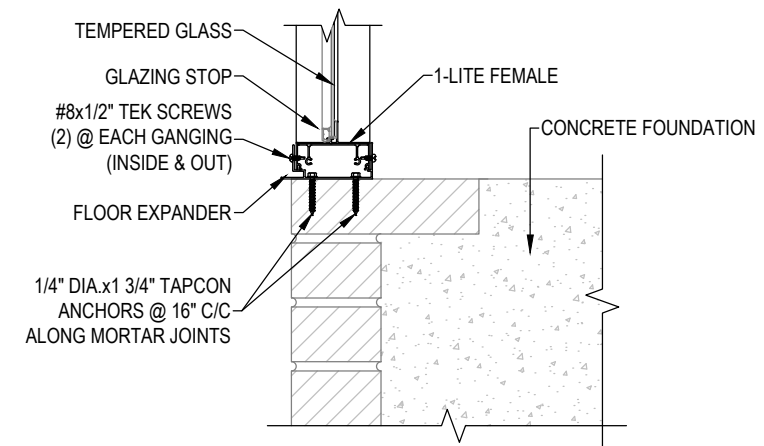
3 PLAN VIEW OF MASTER FRAME JAMBS
8 CONNECTION @ UTILITY POST



4 PLAN VIEW OF MASTER FRAME JAMB & DBL. EXPANDER
8 CONNECTION @ EXISTING BRICK WALL



5 SECTION THROUGH MASTER FRAME SILL
8 CONNECTION @ CONCRETE FOUNDATION



6 SECTION THROUGH GLASS KNEEWALL
8 CONNECTION @ CONCRETE FOUNDATION

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SHEET	8 OF 9

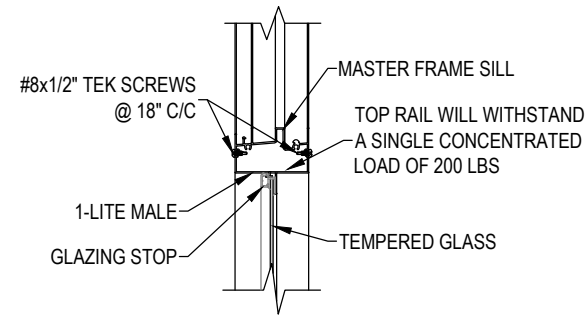
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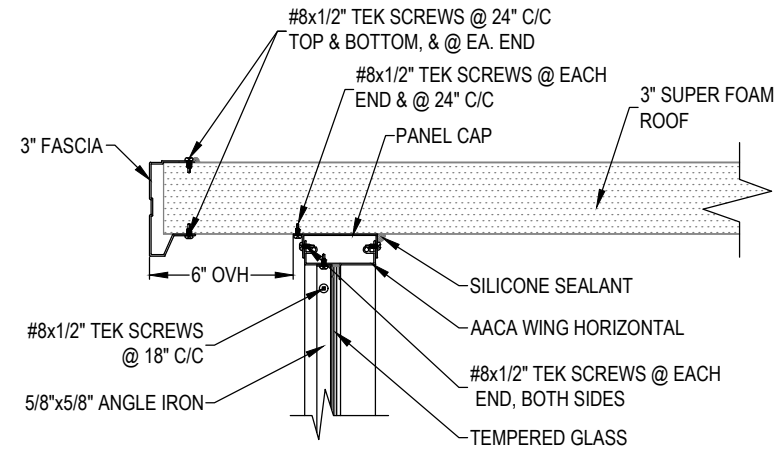


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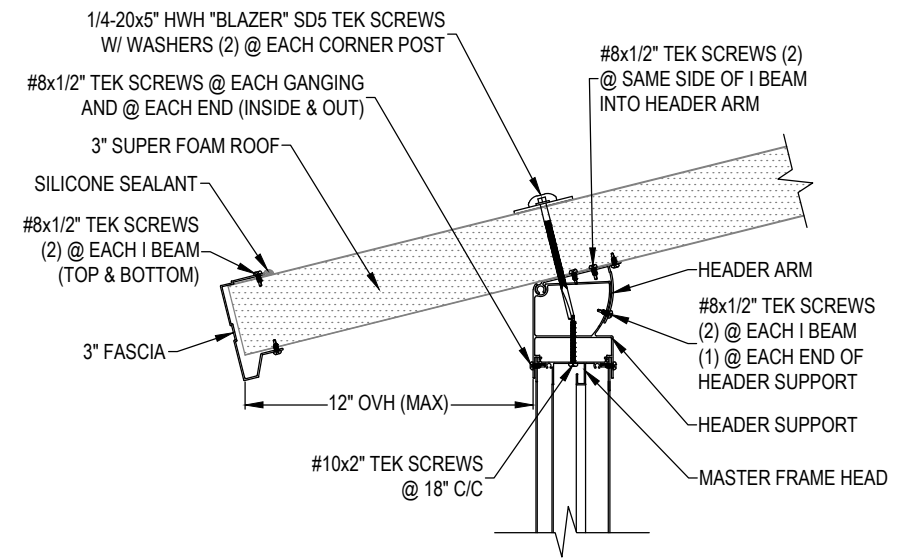
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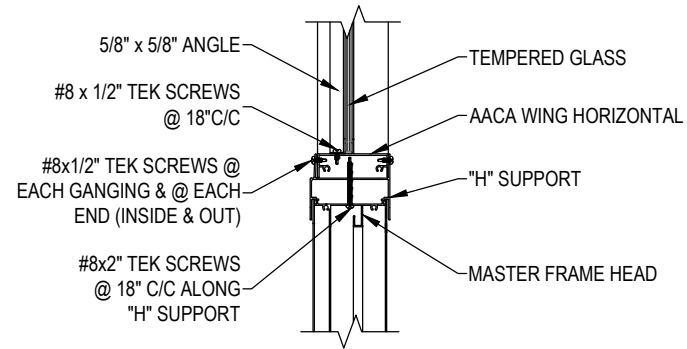
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9 SECTION THROUGH MASTER FRAME SILL CONNECTION @ GLASS KNEEWALL



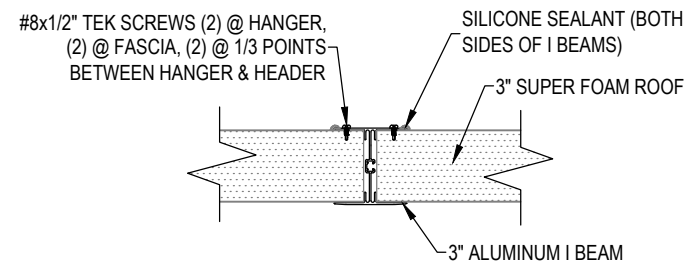
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9 SECTION THROUGH 3" SUPER FOAM ROOF PANEL CONNECTION @ GLASS WING



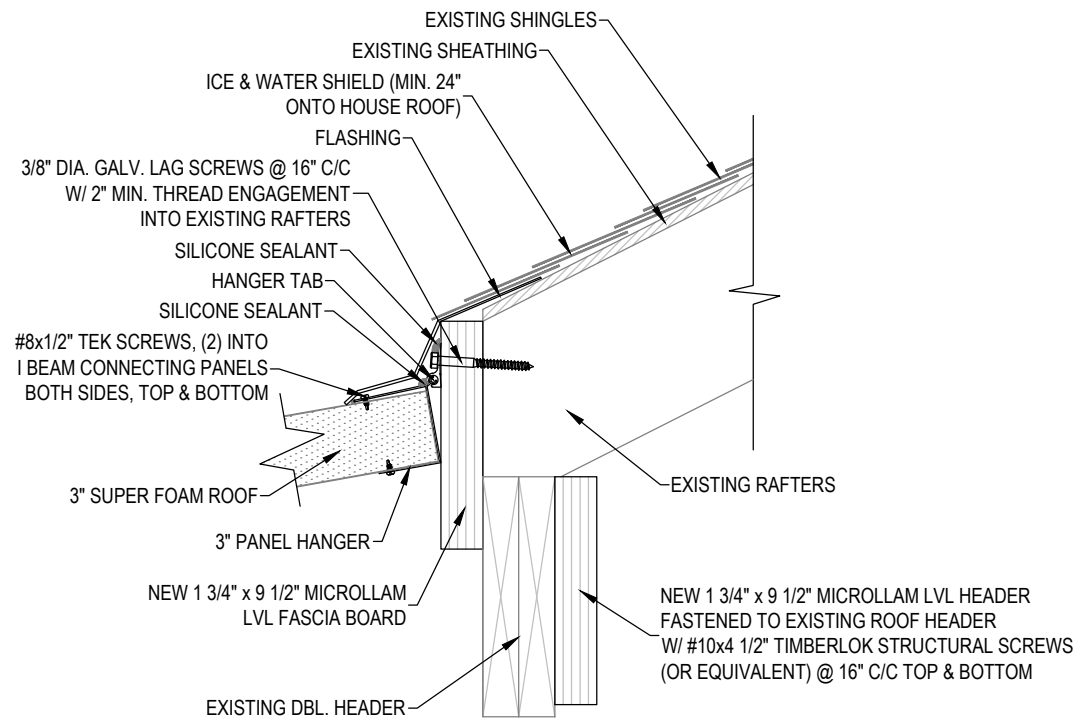
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9 SECTION THROUGH MASTER FRAME & HEADER CONNECTION @ 3" SUPER FOAM ROOF



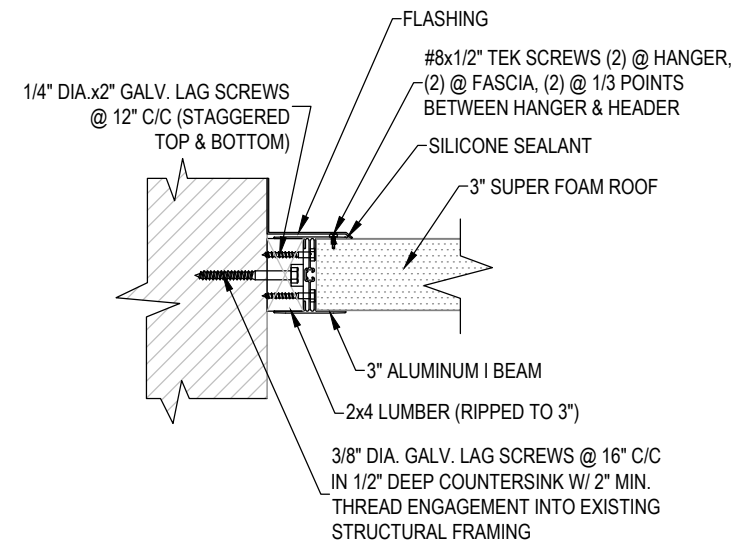
8
9 SECTION THROUGH "H" & MASTER FRAME HEAD CONNECTION @ GLASS WING



11
9 SECTION THROUGH 3" ROOF CONNECTION @ I BEAM



12
9 SECTION THROUGH 3" SUPER FOAM ROOF & PANEL HANGER ASSEMBLY CONNECTION @ OVERHANG CUT OFF



13
9 3" ROOF PANEL & I BEAM CONNECTION @ EXISTING WALL

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