DESIGN CRITERIA:

APPLICABLE CODES, REGULATIONS & STANDARDS:

1. THE 2023 FLORIDA BUILDING CODE 8TH EDITION, SPECIFICALLY CHAPTER 16 STRUCTURAL DESIGN, CH. 20 ALUM. & CH. 23 WOOD.
2. AA ASM 35 & SPECIFICATIONS FOR ALUMINUM STRUCTURES, PART 1-A OF THE ALUMINUM DESIGN MANUAL PREPARED BY THE ALUMINUM ASSOCIATION, INC. WASHINGTON D.C. 2005 ED.
3. ASCE 7-22 & SE17
4. NDS NATIONAL DESIGN SPECIFICATION FOR WOOD.
5. ACI318 CONCRETE REFERENCE MANUAL.

WIND LOADS:

1. BUILDING OCCUPANCY CATEGORY, PARAGRAPH 1604.5 & TABLE 1604.5: RISK CATEGORY: I
2. BASIC WIND SPEED, TABLE 1609C, STATE OF FLORIDA DEBRIS REGION & BASIC WIND SPEED, PARAGRAPH 1609.3.1 & TABLE
   1609.3.1 EQUIVALENT BASIC WIND SPEED: 120
   MPH EXPOSURE CATEGORY, PARAGRAPH 1609.4.3: C
3. WIND LOADS PER FBC TABLE 2002.4 (MWFRS)
   VULT = 120 MPH & EXPOSURE = C

   FOR 20 X 20 X 0.013" MESH SCREEN
   HORIZONTAL PRESSURES ON WINDWARD SURFACES = 25 PSF
   HORIZONTAL PRESSURES ON LEEWARD SURFACES = 19 PSF
   VERTICAL PRESSURES ON SCREEN SURFACES = 7 PSF
   VERTICAL PRESSURES ON SOLID SURFACES = 25 PSF

   FOR 18 X 14 X 0.013" MESH SCREEN, APPLIED FACTOR = .88
   FOR ALLOWABLE STRESS DESIGN, APPLIED FACTOR = .6

FOUNDATION DESIGN:

IF UTILIZING EXISTING CONCRETE AS THE FOUNDATION A MINIMUM 4" THICK (3-1/2" NOMINAL) CONCRETE SLAB SHALL BE PROVIDED IN SOUND CONDITION, VISIBLY FREE FROM STRUCTURAL CRACKING, SPALLING OR OTHER DETERIORATION.

MISCELLANEOUS:

1. SCREENED ENCLOSURES CONTAINING SWIMMING POOLS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF FBC R4501.17 RESIDENTIAL SWIMMING BARRIER REQUIREMENTS.
2. ALUMINUM ADDITIONS ARE NOT TO BE INSTALLED ON A MANUFACTURED HOME, TRAILER HOME, OR PRE-FAB HOME. IF THE EXISTING STRUCTURE IS ONE OF THESE, A SEPARATE 4TH WALL SUPPORT SYSTEM IS SO TO BE ENGINEERED SO THAT NO ADDITIONAL LOADING IS PLACED ON THE MANUFACTURED HOME.
3. THE ENGINEERING ON THESE PLANS IS SITE SPECIFIC FOR (1) STRUCTURE ONLY AT THE PROVIDED ADDRESS(ES).

FASTENER SPECIFICATIONS:

1. FASTENERS ARE REQUIRED TO BE SAE GRADE 2 OR BETTER ZINC PLATED. (CONCRETE ANCHORS ARE TO BE 410 S.S. TAPCONS OR BETTER, INSTALLED TO MFG. SPECIFICATIONS)
2. WHERE WOOD DECK IS PRESENT USE 1/4" X 3-1/2" GALV. LAG SCREWS IN LIEU OF MASONRY ANCHORS. UNLESS OTHERWISE SPECIFIED.
3. FOR 1"x2" NON-STRUCTURAL MEMBERS ATTACHED TO HOST
   a. FOR MASONRY/CONCRETE APPLICATION USE GALVANIZED 1/4" X 2-3/4" TAPCONS 6" FROM ENDS & 24" CENTER TO CENETER.
   b. FOR WOOD APPLICATION USE #14 X 2-3/4" WOOD SCREW AT 6" FROM ENDS & 24" CENTER TO CENETER.
   c. FOR ALUMINUM APPLICATION USE #10 X 1-1/2" SMS OR TEK 6" FROM ENDS & 24" CENTER TO CENETER..
   d. WHERE 1"x2" INSTALLED THROUGHOUT AN "OPEN VIEW" SPACING SHALL BE REDUCED TO 6" FROM ENDS & 18" C.C.

RESPONSIBILITIES:

1. ALL SITE WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH APPLICABLE BUILDING CODES, LOCAL ORDANANCES, AND THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
2. FOR FASTENERS WHICH ARE NOT VISIBLE AFTER INSTALLATION, THE CONTRACTOR SHALL VERIFY AND ENSURE INSTALLATION HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND IN ACCORDANCE WITH THE ATTACHED DETAILS.
3. CONTRACTOR TO PROVIDE NOA'S & INSTALL ALL MATERIALS AS PER MANUFACTURER'S SPECIFICATIONS.
4. INTEGRITY OF EXISTING/ HOST STRUCTURE SHALL NOT BE COMPROMISED WITH THE ATTACHMENT OF THE PROPOSED STRUCTURE.
5. IT IS THE OWNERS RESPONSIBILITY TO MAINTAIN THE SCREENS & FASTENERS TO MANUFACTURING SPECIFICATIONS.

ALUMINUM SPECIFICATIONS:

1. ALUMINUM EXTRUSIONS SHALL BE 6005 T5 ALLOY UNLESS OTHERWISE NOTED.
2. ALL SELF MATING BEAM SECTIONS ARE TO BE STITCHED WITH
   a.#14 SCREWS 6" FROM ENDS & 24" CENTER TO CENTER.
   b. #12 SCREWS 6" FROM ENDS & 18" CENTER TO CENTER.
   c. #10 SCREW 6" FROM ENDS & 12" CENTER TO CENETER.
3. THE MINIMUM NORMAL THICKNESS OF PROTECTOR PANELS (KICKPLATES) SHALL BE AN INDUSTRY STANDARD OF 0.024 INCHES.
4. SCREEN MATERIAL SHALL BE 18/14 SCREEN UNLESS APPROVED BY FLORIDA ENGINEERING LLC.
5. 1"x2" & 1"x3" NON-STRUCTURAL MEMBERS MAY BE USED INTERCHANGEABLY.
6. DOOR LOCATION MAY BE DETERMINED/ RELOCATED BY CONTRACTOR IN THE FIELD. NOT TO AFFECT DESIGN SPANS AND STRUCTURAL MEMEBRS SHOWN

CONCRETE SPECIFICATIONS:

THE FOLLOWING SPECIFICATIONS ARE APPLICABLE TO THIS PROJECT:
1. WHERE CONCRETE SPECIFICATIONS ARE REQUIRED, WHETHER IN THE SCREEN ENCLOSURE SCOPE OR NOT, BY ONE OR MORE REGULATORY AGENCIES, THE FOLLOWING SPECIFICATIONS ARE APPLICABLE:
   a. CONCRETE SHALL CONFORM TO ASTM C94 FOR THE FOLLOWING COMPONENTS:
      i. PORTLAND CEMENT TYPE 1 - ASTM C 150
      ii AGGREGATES - LARGE AGGREGATE 3/4 MAX. - ASTM C 33
      iii. AIR ENTRAINING +/- 1 % - ASTM C 260
      iv. WATER REDUCING AGENT - ASTM C 494
      v. CLEAN POTABLE WATER
      vi. OTHER ADMIXTURES NOT PERMITTED
   b. METAL ACCESSORIES SHALL CONFORM TO:
      i. REINFORCING BARS - ASTM A615, GRADE 60
      ii. WELDED WIRE FABRIC - ASTM A185
   c. CONCRETE SLUMP AT DISCHARGE CHUTE NOT LESS THAN 3" OR MORE THAN 5". WATER ADDED AFTER BATCHING IS NOT PERMITTED.
   d. PREPARE & PLACE CONCRETE PER AMERICAN CONCRETE INSTITUTE MANUAL OF STANDARD PRACTICE, PART 1, 2, & 3 INCLUDING HOT WEATHER RECOMMENDATIONS.
   e. MOIST CURE OR POLYETHYLENE CURING PERMITTED.
   f. PRIOR TO PLACING CONCRETE, TREAT THE ENTIRE SUBSURFACE AREA FOR TERMITES IN COMPLIANCE WITH THE FBC. FOR RISK CATEGORY II, III, & IV STRUCTURES ONLY.
   g. CONCRETE SLAB SHALL BE PLACED OVER A POLYETHYLENE VAPOR BARRIER. (SLAB ONLY)
2. WHEN PAVERS ARE UNDER ALUMINUM MEMBERS, CONTRACTOR SHALL EPOXY TO DECK OR GROUT TO DECK w/ 2000 PSI GROUT WITH BONDING AGENT
3. WHEN APPLICABLE FOR NEW SLAB ADDITION TO ADJACENT DRILL & EPOXY #4 X 8" REBAR INTO EX. FOUNDATION EMBED 4" MIN W/ NON-SHRINKING SIMPSON EPOXY-TIE (OR EQUAL) 48" O.C. TYP. ALL LOCATIONS
4. WHEN APPLICABLE FOR NEW FOOTER TO EXISTING, DRILL & EPOXY NEW STEEL INTO EX. FOUNDATION WITH EMBED 6" MIN W/ NON-SHRINKING SIMPSON EPOXY-TIE (OR EQUAL) TYP. ALL LOCATIONS
5. WHERE PAVERS ARE UNDER ALUMINUM MEMBERS, CONTRACTOR SHALL EPOXY TO DECK OR GROUT TO DECK w/3000 PSI GROUT WITH BONDING AGENT.
6. MINIMUM CONCRETE STRENGTH 3000 PSI UNLESS OTHERWISE NOTED.

MASONRY SPECIFICATIONS:

1. CONCRETE MASONRY UNITS (CMU) SHALL BE STANDARD HOLLOW UNITS AND SHALL BE 1900 PSI MINIMUM BASED ON TYPE M OR S MORTAR.
2. ALL MORTAR SHALL BE TYPE M OR S.
3. ALL GROUT SHALL BE 1800 PSI MINIMUM AND HAVE MAXIMUM COARSE AGGREGATE SIZE OF 3/8".
4. PROVIDE CLEAN-OUTS FOR REINFORCED CELLS CONTAINING REINFORCEMENT WHEN GROUT POUR EXCEEDS 5'-0" IN HEIGHT.

FOOTER SPECIFICATIONS:

1. PROVIDE 1-1/2" COVERAGE TOP, SIDES, BOTTOM AND 1" BETWEEN ADJACENT REBAR LAPS.
2. PROVIDE MIN. 3" COVERAGE OF REBAR FOR ALL CONCRETE IN CONTACT WITH THE EARTH.
3. FOOTING CONCRETE SHALL BE MIN. 3000 PSI AT 28 DAYS
4. FOOTING REINFORCEMENT SHALL BE MIN. GRADE 60
5. MINIMUM REBAR LAP SPLICE (40d) d= DIAMETER OF REBAR
6. PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURE TO CITY / CO. REQUIREMENTS
7. PROVIDE 2000 PSF BEARING (TYPICAL) UNDER FOUNDATION

ALUMINUM MEMBERS DIMENSIONS:

HOLLOW SECTIONS
2 x 2: 2" x 2" x 0.050"
2 x 3: 2" x 3" x 0.050"
2 x 4: 2" x 4" x 0.050"
2 x 5: 2" x 5" x 0.050"

OPEN BACK SECTIONS
1 x 2: 1" x 2" x 0.044"
1 x 3: 1" x 3" x 0.045"

SNAP SECTIONS
2 x 2 SNAP: 2" x 2" x 0.045"
2 x 3 SNAP: 2" x 3" x 0.050"
2 x 4 SNAP: 2" x 4" x 0.045"

SELF MATING (SMB)
2 x 4 SMB: 2" x 4" x 0.046" x 0.100"
2 x 5 SMB: 2" x 5" x 0.050" x 0.116"
2 x 6 SMB: 2" x 6" x 0.050" x 0.120"
2 x 7 SMB: 2" x 7" x 0.055" x 0.120"
2 x 8 SMB: 2" x 8" x 0.072" x 0.224"
2 x 9 SMB: 2" x 9" x 0.072" x 0.224"
2 x 9(H) SMB: 2" x 9" x 0.082" x 0.306"
2 x 10 SMB: 2" x 10" x 0.092" x 0.374"
ALL MAY NOT APPLY
DETAIL "A" MEMEBR DIMENSIONS

DESIGN LOADS:

1. DEAD LOADS = MEMBER SELF-WEIGHT
2. LIVE LOADS
   a. PRIMARY MEMBERS = 300 LB. VERT. LOAD
   b. SECONDARY MEMBERS = 200 LB. VERT. LOAD
   c. SCREEN ROOF = 5 PSF
   d. SOLID ROOF = 20 PSF

SHEET NO.	DRAWING INDEX
S/01	GENERAL NOTES
S/02	PLAN/ ELEVATIONS
S/03	DETAILS
S/04	DETAILS
S/05	DETAILS

Columbia County Building Department — Plans Reviewed for Code Compliance — State of Florida

This item has been digitally signed and sealed by Richard E. Walker, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

RICHARD EDWARD WALKER LICENSE No. 61240 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Richard E Walker
Date: 2025.07.09 12:45:21-04'00'

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4161 TAMIAMI TRAIL, UNIT 101
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(941) 391-5980
FLEng.com
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CA CERT. #30782

PROJECT NO. 2516355

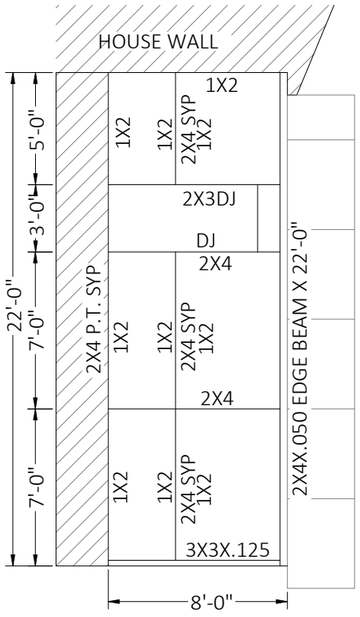
CONTRACTOR: AMERICAN METALS LLC

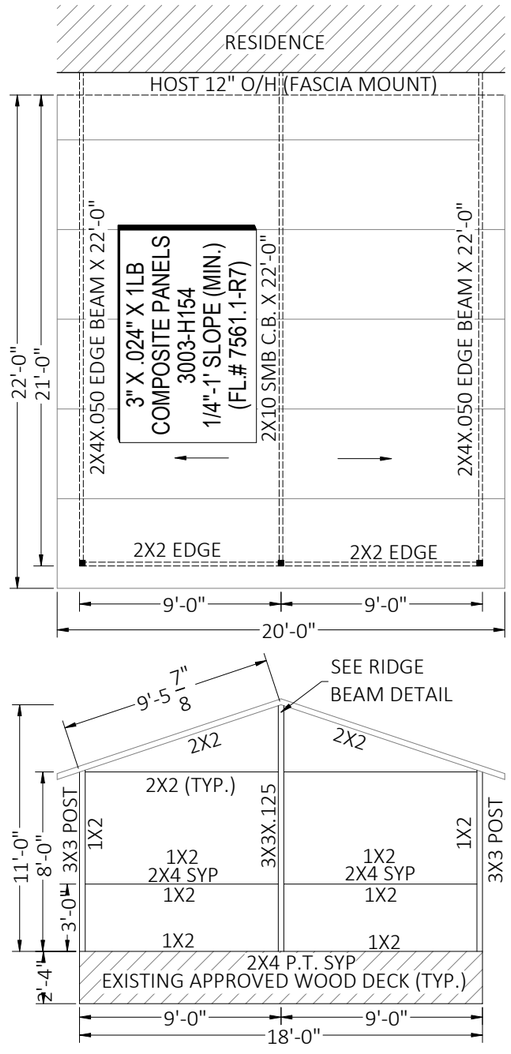
PROJECT ADDRESS: DEVITA
11757 N US HIGHWAY 441
LAKE CITY FLORIDA, 32055

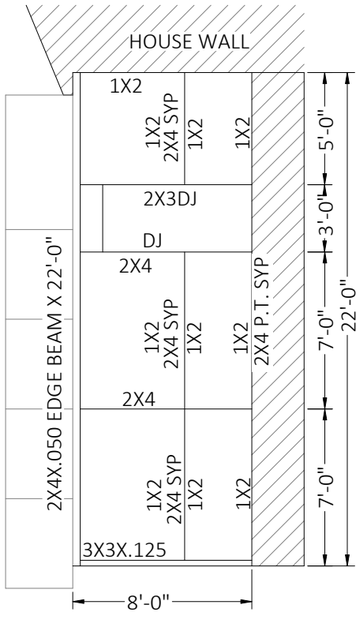
DESIGN DATE: 07/08/2025
REVISION 1: DATE
REVISION 2: DATE
DRAWN BY: MBG
SCALE: NTS

SHEET: 01

PROPOSED GABLE SCREEN ROOM & FLAT SCREEN ROOF
PLAN/ ELEVATIONS SCALE: NTS







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RICHARD EDWARD WALKER LICENSE No. 61240 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Richard E Walker
Date: 2025.07.09 12:45:22-04'00'

HATCH/ SYMBOL LEGEND

HATCH	INDICATES
	EXIST. STRUCTURE

NOTE: ALL MAY NOT APPLY

■ = 3X3X.125

FLORIDA ENGINEERING LLC HAS NOT PERFORMED ANY ON SITE INSPECTIONS AT THIS LOCATION

THESE PLANS WERE PREPARED BASED ON THE PREMISE THAT THE EXISTING STRUCTURE WAS DESIGNED BY A PROPERLY LICENSED PROFESSIONAL ENGINEER OF THE STATE OF FLORIDA, WAS PERMITTED BY THE APPROPRIATE PERMITTING AGENCY, WAS CONSTRUCTED BY A FLORIDA LICENSED CONTRACTOR AT THE TIME OF CONSTRUCTION, HAS NOT BEEN SUBJECT TO DAMAGE BY A MAJOR EVENT, AND HAS BEEN CERTIFIED BY THE CONTRACTOR THAT THE EXISTING STRUCTURE CURRENTLY SHOWS NO DEVIATIONS OR DEFECTS FROM THE STATE OF THE STRUCTURE AS PERMITTED BY THE FINAL INSPECTION OF THE PERMITTING AGENCY. ALSO, THE OWNER AND ALL PARTIES CONCERNED WILL INDEMNIFY FLORIDA ENGINEERING LLC FROM ANY DAMAGE OR CHANGES TO THE EXISTING STRUCTURE AS A RESULT OF ANY MODIFICATION OR FOR ANY OTHER REASON.

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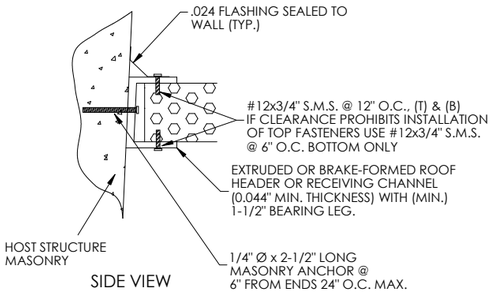
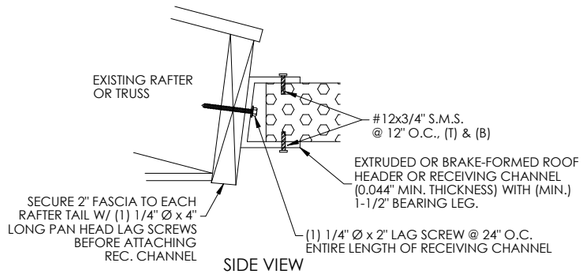
CONTRACTOR TO PROVIDE DIELECTRIC SEPERATION WHERE ALUMINUM COMES IN DIRECT CONCTACT WITH STEEL OR PRESSURE TREATED LUMBER TO PREVENT ELECTROLYISIS.

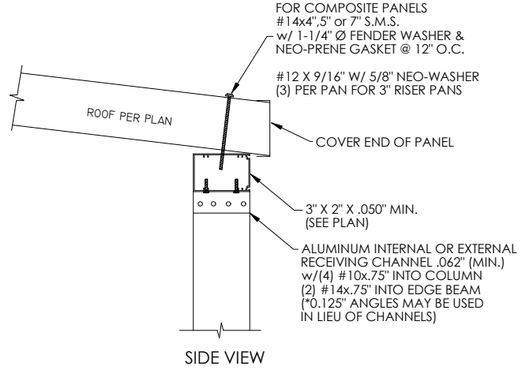
DESIGN DATE:	07/08/2025
REVISION 1:	DATE
REVISION 2:	DATE
DRAWN BY:	MBG
SCALE:	NTS
SHEET:	02



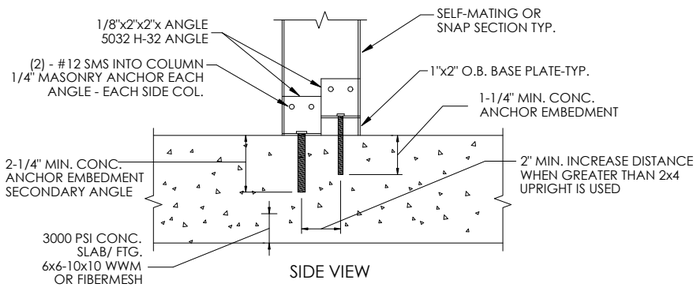
ROOF PANEL ATTACHMENT - MASONRY
SCALE: NTS



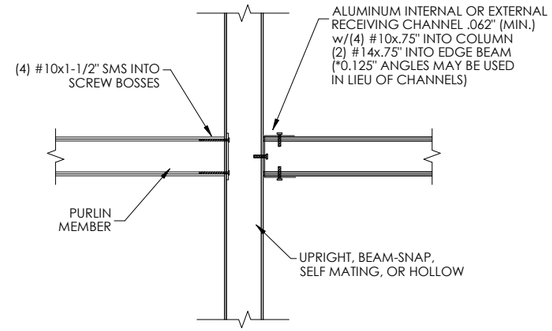
ROOF PANEL ATTACHMENT - WOOD FRAME
SCALE: NTS



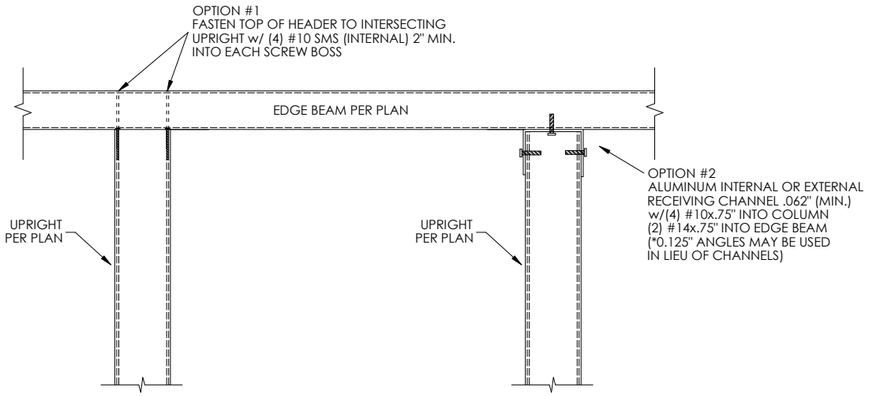
ROOF PANEL TO CARRIER BEAM
CONNECTION SCALE: N.T.S.



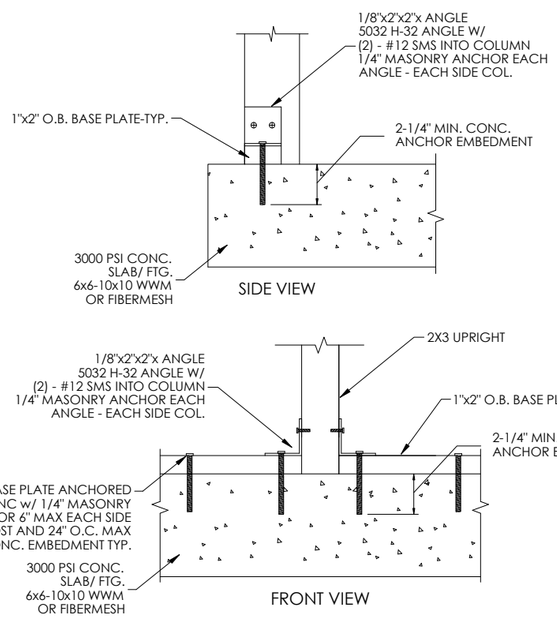
DETAIL "B" - 2"x4" OR LARGER SELF MATING
UPRIGHT TO DECK DETAILS SCALE: NTS



DETAIL "C" - GIRT OR PURLIN TO BEAM
OR POST DETAIL SCALE: NTS

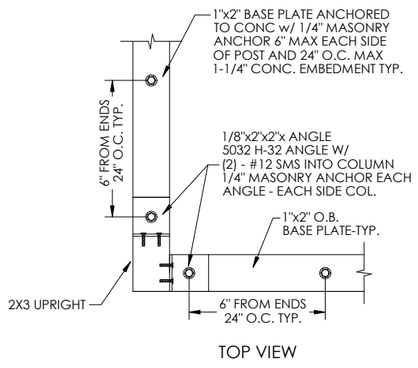


TYPICAL SCREEN ROOM EDGE BEAM TO UPRIGHT
CONNECTION DETAIL SCALE: N.T.S.

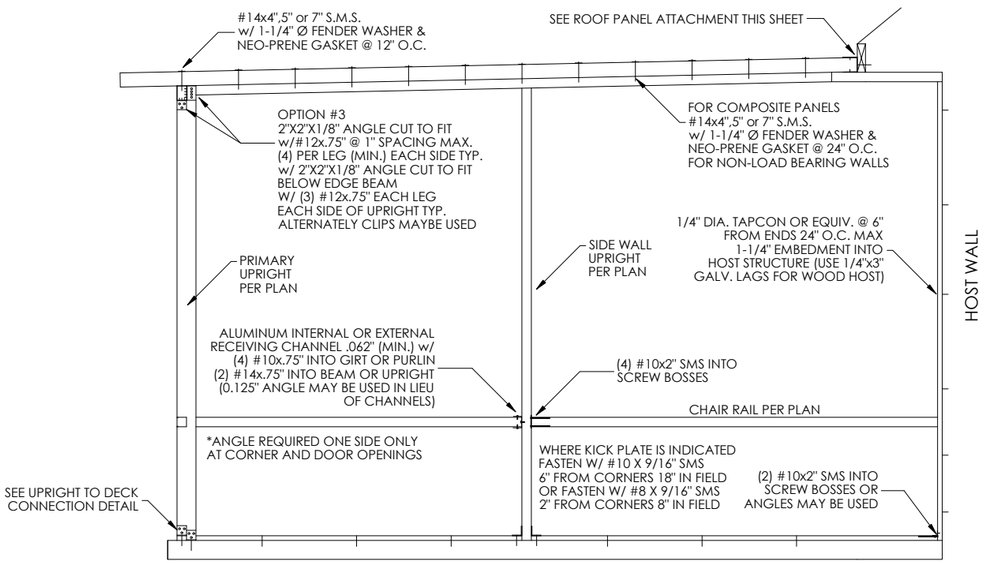


DETAIL "B" - 2'x3" UPRIGHT TO DECK
CONNECTION DETAILS SCALE: NTS

NOTE:
FOR WOOD APPLICATIONS USE IDENTICAL WOOD SCREW OR HOT DIPPED GALV. LAG IN LIEU OF CONCRETE ANCHORS, SAME SIZE AND FASTNERS PATTERN APPLIES.



DETAIL "B-II" - 2'x3" UPRIGHT @ CORNER
CONNECTION DETAILS SCALE: NTS



SCREEN ROOM END WALL DETAIL SCALE: N.T.S.

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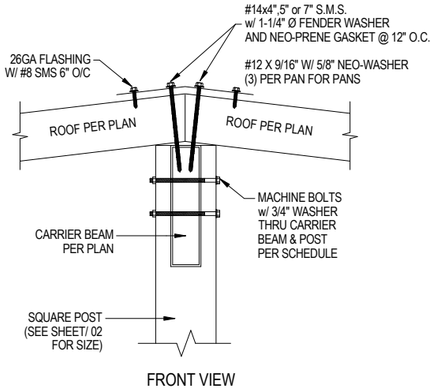
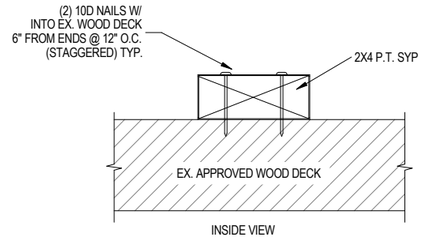
SHEET: 03

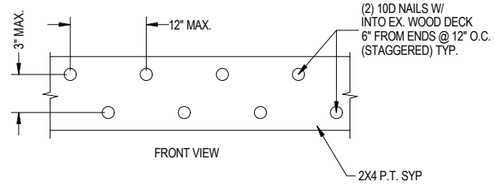


FRONT VIEW

ROOF PANEL TO RIDGE BEAM CONNECTION
SCALE: NTS

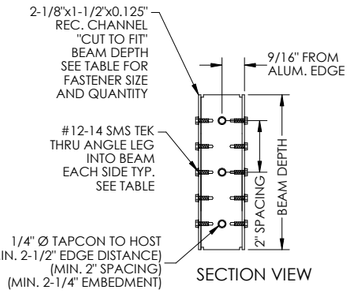


INSIDE VIEW



FRONT VIEW

2X4 P.T. SYP TO WOOD DECK DETAIL
DETAIL SCALE: N.T.S.

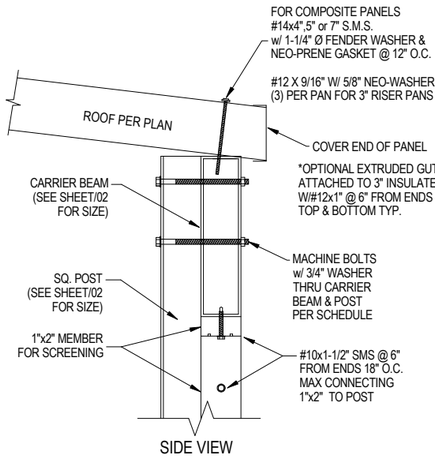


SECTION VIEW

NOTE:
FOR WOOD APPLICATION USE:
1/4" DIA. X 3" LAGS IN LIEU
OF 1/4" x 3" TAPCON

BEAM TO HOST w/ 1/8" REC. TABLE		
BEAM SIZE	***QUANTITY SMS TO BEAM EACH SIDE***	***QUANTITY 1/4" ANCHOR (INTERNAL)***
2X4	***(4) #12***	***(2) 1/4"***
2X5	***(5) #12***	***(2) 1/4"***
2X6	***(5) #12***	***(3) 1/4"***
2X7	***(6) #14***	***(3) 1/4"***
2X8	***(7) #14***	***(4) 1/4"***
2X9	***(8) #14***	***(4) 1/4"***
2X10	***(9) #14***	***(5) 1/4"***

SELF-MATING BEAM TO WALL
CONNECTION SCALE: NTS

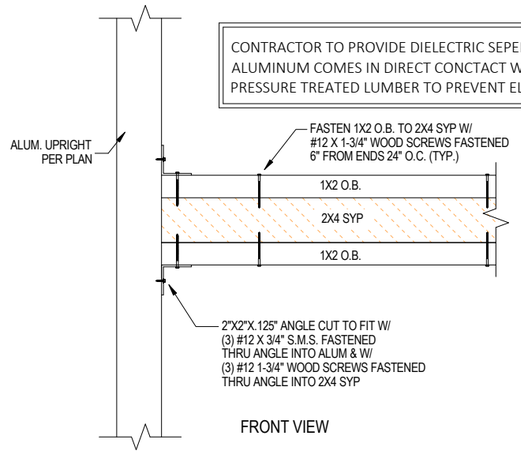


SIDE VIEW

BEAM TO POST SCHEDULE	
CARRIER BEAM SIZE	MACHINE BOLT QTY./ DIAMETER
2X6	(2) 3/8" Ø
2X7	(3) 3/8" Ø
2X8	(3) 3/8" Ø
2X9	(4) 3/8" Ø
2X10	(4) 3/8" Ø

BEAM TO POST NOTES:
MAINTAIN 1" SEPARATION
BETWEEN MACHINE BOLTS.
MAINTAIN 1" MIN, BOLT
SEPARATION FROM
EDGE OF BEAM/ POST

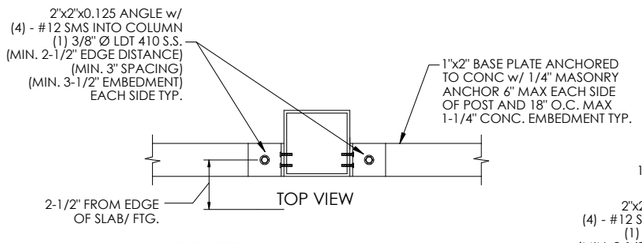
POST TO CARRIER BEAM
CONNECTION SCALE: NTS



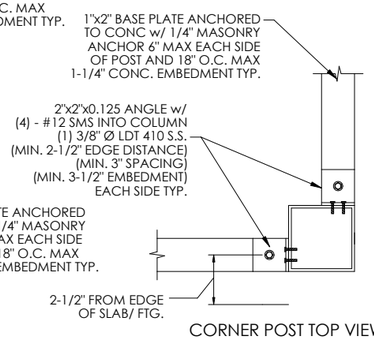
FRONT VIEW

2X4 SYP RAIL TO ALUMINUM POST
DETAIL SCALE: N.T.S.

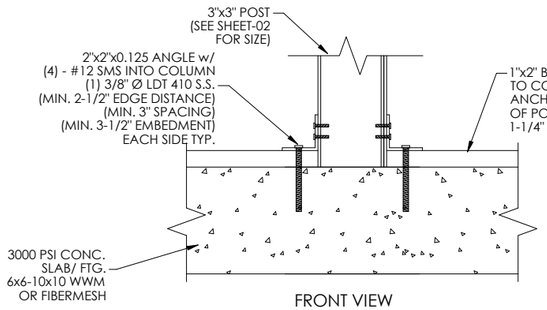
NOTE:
FOR WOOD APPLICATIONS USE IDENTICAL WOOD SCREW OR HOT DIPPED GALV. LAG IN LIEU OF CONCRETE ANCHORS, SAME SIZE AND FASTNERS PATTERN APPLIES.



TOP VIEW



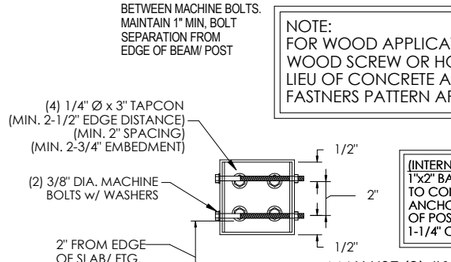
CORNER POST TOP VIEW



FRONT VIEW

3X3 POST CONNECTION DETAIL
SCALE: NTS

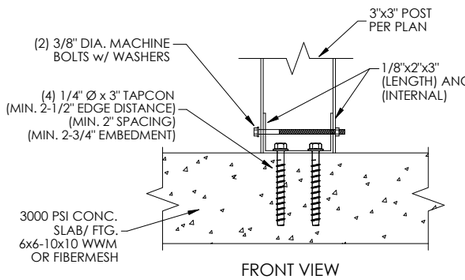
3X3 CORNER POST CONNECTION DETAIL
SCALE: NTS



TOP VIEW

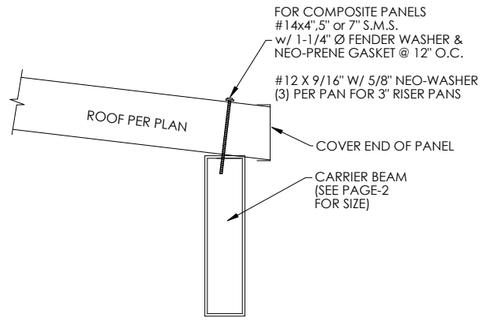
(INTERNAL BASE) NOTE:
1"x2" BASE PLATE ANCHORED
TO CONC w/ 1/4" MASONRY
ANCHOR 4" MAX EACH SIDE
OF POST AND 18" O.C. MAX
1-1/4" CONC. EMBEDMENT TYP.

MAY USE (3) #12-14x1" TEK
EACH SIDE OF POST
IN LIEU OF THRUBOLTS



FRONT VIEW

3"x3" POST CONNECTION DETAIL
(INTERNAL BASE) SCALE: NTS



ROOF PANEL TO CARRIER BEAM
CONNECTION SCALE: NTS

NOTES:
1. WHERE PAVERS ARE PRESENT ANCHOR LENGTH SHALL BE INCREASED BY THICKNESS OF PAVER NOT TO EXCEED 2-1/2" FOR PAVER THICKNESS MORE THAN 2-1/2" SITE SPECIFIC SPECIFICATIONS SHALL BE REQUIRED. PAVERS SHALL BE BONDED TO UNDERLYING CONCRETE FOUNDATION W/ 2000 PSI GORUT.

FLORIDA ENGINEERING LLC
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PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
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CA CERT. #30782

PROJECT NO. 2516355

CONTRACTOR: AMERICAN METALS LLC

PROJECT ADDRESS:
DEVITA
11757 N US HIGHWAY 441
LAKE CITY FLORIDA, 32055

DESIGN DATE:	07/08/2025
REVISION 1:	DATE
REVISION 2:	DATE
DRAWN BY:	MBG
SCALE:	NTS

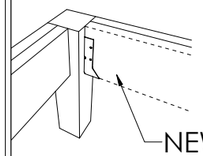
SHEET: 04

RICHARD EDWARD WALKER LICENSE No. 61240 STATE OF FLORIDA PROFESSIONAL ENGINEER

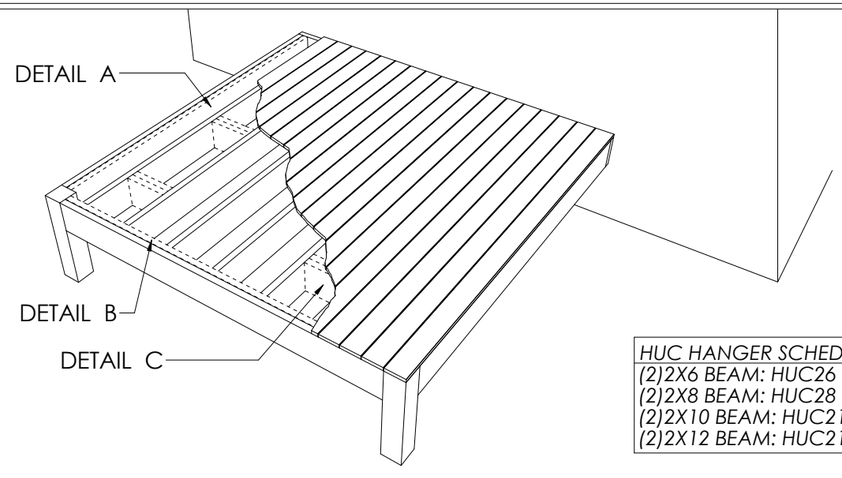
Digitally signed by Richard E Walker
Date: 2025.07.09 12:45:23-04'00'

DETAIL A
MODIFY EXISTING RIMBOARD TO A (2) RIMBOARD

ATTACH NEW RIMBOARD TO EXISTING WITH:
- MINIMUM (2) ROWS OF 12d NAILS AT 12" O.C. FOR MEMBERS LESS THAN 14" DEEP
- MINIMUM (3) ROWS OF 12d NAILS AT 12" O.C. FOR MEMBERS GREATER THAN 14" DEEP



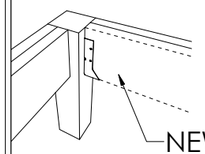
NEW RIMBOARD CONNECTION TO EXISTING WOOD MEMBER:
- PER HUC HANGER SCHEDULE



HUC HANGER SCHEDULE
(2)2X6 BEAM: HUC26
(2)2X8 BEAM: HUC28
(2)2X10 BEAM: HUC210
(2)2X12 BEAM: HUC212

DETAIL B
MODIFY EXISTING BEAM TO A (2) BEAM

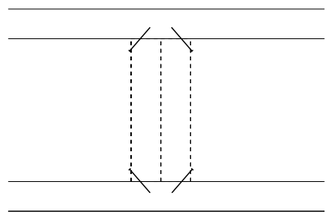
ATTACH NEW BEAM TO EXISTING WITH:
- MINIMUM (2) ROWS OF 12d NAILS AT 12" O.C. FOR MEMBERS LESS THAN 14" DEEP
- MINIMUM (3) ROWS OF 12d NAILS AT 12" O.C. FOR MEMBERS GREATER THAN 14" DEEP



NEW BEAM CONNECTION TO EXISTING WOOD MEMBER:
- PER HUC HANGER SCHEDULE

DETAIL C
NEW BLOCKING

ATTACH NEW BLOCKING TO EXISTING JOISTS WITH:
- TOENAIL BLOCKING TO JOIST WITH (3) 10d NAILS E.A. END



828 LB. OF UPLIFT CAPACITY PER BLOCKING, (2) BLOCKING MIN.

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