

PRODUCT SUMMARY

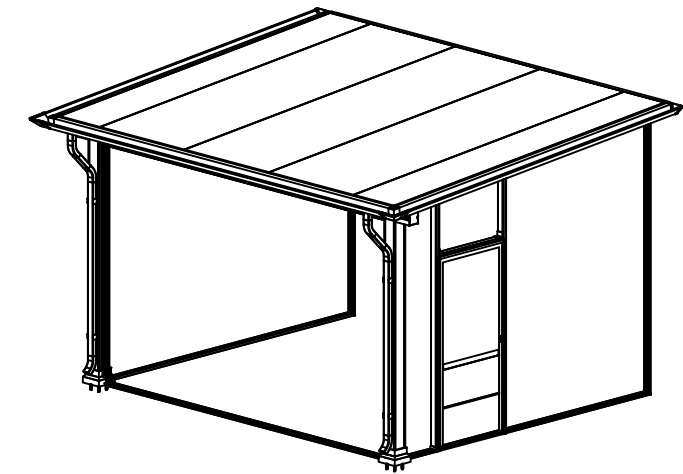
PERGOLA Product: Moderno
WALL Product: Dolce (Open View Screen)
FRAMING: Wide Post & Beam

KEY DIMENSIONS

FRAME WIDTH: 14'
FRAME PROJECTION: 12'
POST HEIGHT: 10'
ROOF SLOPE: 1in
ROOF WIDTH: 16'
ROOF PROJECTION: 13'

HOST STRUCTURE

SHAPE: Wall Attached
HOST ATTACHMENT: 2 Story Home
FOUNDATION: EXISTING CONCRETE SLAB (3KSI MIN) (BY OTHERS)



NOTE: THIS ISOMETRIC VIEW IS ONLY FOR ILLUSTRATIVE PURPOSES.
ACTUAL DETAIL DRAWINGS SHOWN HEREIN MAY VARY.

STRUCTURAL NOTES / DESIGN CRITERIA:

THE WORK SPECIFIED HEREIN HAS BEEN DESIGNED ALL WORK SHALL BE IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF THE CODES REFERENCED BELOW
NORTH CAROLINA BUILDING CODE (2018), ASCE 7-16 CHAPTER 30,
V=117 MPH, Exposure: 'B'
MRH = 10', CATEGORY II
Kd=0.85, Kzt=1, Kh=0.70
qh=0.00256*Kz*Kzt*Kd*V = 20.85 PSF
MAXIMUM WIND PRESSURES (PERGOLA) = 18.8 PSF (ASD)

SEISMIC:
SEISMIC RISK = II, SITE CLASS = D
SS = 0.128, S1 = 0.064, SDC = B, TL = 8
SDS = 0.136, SD1 = 0.102

DEAD LOAD = 5 PSF
ROOF LIVE LOAD = 10 PSF (PER APPENDIX I. PATIO COVERS)
SNOW LOAD = 15 PSF

THESE PLANS CERTIFY THE STRUCTURAL ADEQUACY OF THE PROPOSED SYSTEM IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS OF THE BUILDING CODE ONLY. THE HOST STRUCTURE IS ASSUMED TO BE ADEQUATE TO WITHSTAND THE LOADS IMPOSED BY THIS DESIGN.

SCOPE OF WORK:

PROVIDE STRUCTURAL DRAWINGS FOR AN ALUMINUM PERGOLA
MANUFACTURED BY RENAISSANCE PATIO PRODUCTS.

GENERAL NOTES:

1. CONSTRUCTION METHODS PROCEDURES, AND SEQUENCES ARE THE CONTRACTOR'S RESPONSIBILITY AND THE CONTRACTOR IS TO TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.
2. SHOULD ANY SPECIFIC CONDITION DIFFER FROM THAT SPECIFIED HEREIN, OR STANDARD FIELD CONDITIONS, ADDITIONAL SPECIFIC ENGINEERING MAY BE REQUIRED AS DETERMINED BY THE BUILDING INSPECTOR AND PERMITTING CONTRACTOR. THIS OFFICE HAS NOT VISITED THE PROJECT SITE.
3. USE MANUFACTURER'S CERTIFIED DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT SHOWN IN THESE PLANS.
4. DIMENSIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA. THEY MAY VARY SLIGHTLY, BUT SHALL REMAIN IN CONFORMANCE WITH THE LIMITATIONS OF THIS PLAN. THE CONTRACTOR IS TO VERIFY ALL FIELD DIMENSIONS PRIOR TO INSTALLATION, AND VERIFY THAT PROPOSED DIMENSIONS AND FIELD CONDITIONS AGREE WITH THIS PROPOSED PLAN. USE OF THIS DOCUMENT CONSTITUTES ACCEPTANCE OF THE PROPOSED SYSTEM LAYOUT, COMPONENTS SELECTED, AND INSTALLATION. THESE DRAWINGS ARE NOT INTENDED TO BE USED AS FABRICATION OR SHOP DRAWINGS.
5. ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COSTS & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN. EXCEPT AS EXPRESSLY PROVIDED IN HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
6. THIS ENGINEER SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. THIS ENGINEER SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO RE-EVALUATE OUR WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION UPON DISCOVERY OF ANY NON-MATCHING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS.
7. PROPOSED CHANGES OR SUBSTITUTIONS TO STRUCTURAL DETAILS OR PLANS SHALL BE SUBMITTED TO THIS ENGINEER FOR REVIEW AND APPROVAL.
8. PATIO COVER SHOULD BE USED ONLY FOR RECREATIONAL, OUTDOOR LIVING PURPOSES AND NOT AS CARPOTS, STORAGE ROOMS OR HABITABLE ROOMS..

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CUSTOMER		CONTRACTOR	
Nikki Scott 11 Daybreak Way Fuquay-Varina NC 27526		Elite Exteriors NC 520 Lamed Loop, Suite 105 Cary NC 27513	
Moderno 12'P x 14'W x 10'H in White			
S0 Summary		SCALE 1:75	Screen in COPIED 134405
		PG. 1 OF 8	

QUOTE NO: 134405

DATE	DESC	DRWN	CHKD
4/16/2025	Design Tool	RPP	SLC

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www.RenaissancePatio.com 866-224-4891

DiBattisto, LLC

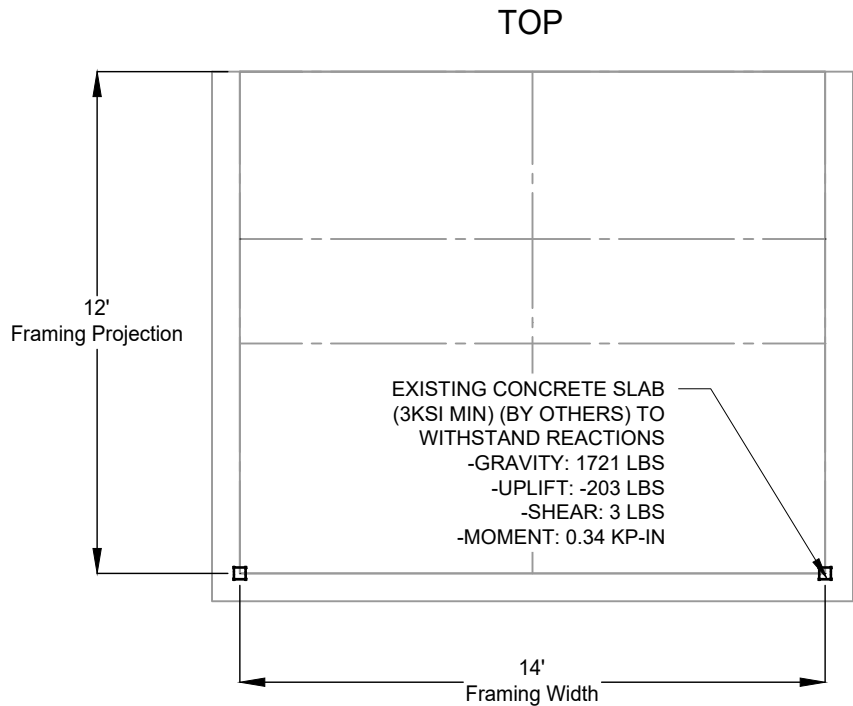
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GORDON DIBATTISTO, P.E.
P.E. No. 51594 (NC)

5/9/2025

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FOUNDATION DETAILS

FOOTING TYPE:

EXISTING CONCRETE SLAB (3KSI MIN) (BY OTHERS)

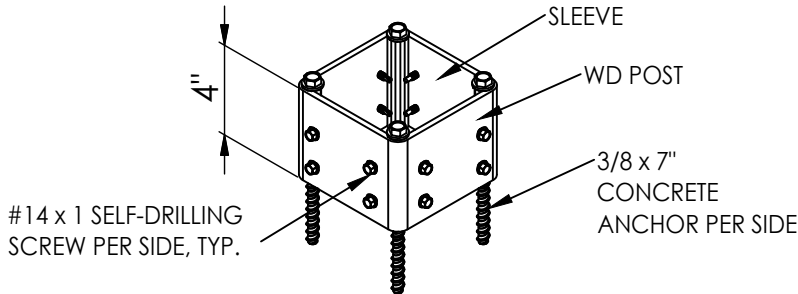
BASE PLATE:

(4) 3/8"DIA BUILDEX+ TAPCON TO 3000 PSI
CONCRETE @2 1/2" EMBED, 5" MIN EDGE
DISTANCE, 3" MIN SPACING

FOUNDATIONS:

1. SOIL STATEMENT: FOOTINGS HAVE BEEN DESIGNED FOR 2,000 P.S.F. ALLOWABLE SOIL BEARING CAPACITY. PRIOR TO THE INSTALLATION OF ANY FOOTING FOUNDATION SYSTEM FOR NEW BUILDINGS, STRUCTURES OR ADDITIONS, THE BUILDING OFFICIAL SHALL BE PROVIDED WITH A STATEMENT OF ALLOWABLE BEARING CAPACITY FROM AN ARCHITECT OR PROFESSIONAL ENGINEER. SAID STATEMENT SHALL CLEARLY IDENTIFY THE ALLOWABLE IN-PLACE BEARING CAPACITY OF THE BUILDING PAD FOR THE NEW BUILDING OR ADDITION AND VERIFY THE EXISTING SOIL CONDITIONS. THE CERTIFIED IN-PLACE BEARING CAPACITY SHALL HAVE BEEN DETERMINED BY WAY OF RECOGNIZED TESTS OR RATIONAL ANALYSIS AND SHALL MEET OR EXCEED THE DESIGN BEARING CAPACITY.
2. FOOTINGS SHALL BE FOUNDED ON WELL COMPACTED VIRGIN SOIL OR ON ENGINEERED FILL.
3. ELEVATIONS SHOWN AT FOOTINGS ARE TOP OF FOOTING ELEVATION (T.O.F.).
4. ALL EXTERIOR FOOTINGS TO BEAR MINIMUM 2'-0" BELOW ADJACENT GRADE. UNLESS OTHERWISE NOTED. ADJUST BOTTOM OF FOOTING AS REQUIRED TO MEET THE REQUIREMENTS OF THE FROST DEPTH WHERE REQUIRED BY LOCAL JURISDICTIONS. BOTTOM OF THE FOOTING SHALL EXTEND 6" BELOW THE FROSTLINE, UNO.

GROUND CONNECTION



FASTENERS (AS APPLICABLE)

1. ALL BOLTS SHALL BE HOT DIPPED GALVANIZED, OR STAINLESS STEEL & MEET THE REQUIREMENTS OF ASTM A307.
2. WASHERS SHALL BE USED BETWEEN ALUMINUM & BOLT HEAD & BETWEEN WOOD & NUT. WHERE GENERIC FASTENERS ARE LABELED IN DETAILS,
3. EMBEDMENT DEPTHS SPECIFIED HEREIN ARE DEPTHS INTO SOLID SUBSTRATE AND DO NOT INCLUDE THICKNESS OF STUCCO OR OTHER NON-STRUCTURAL FINISHES.
4. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS, I.E. ALUMINUM PER F.B.C. 2003.8.4 .

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CUSTOMER	NICKI SCOTT 11 Daybreak Way Fuquay-Varina NC 27526	CONTRACTOR Elite Exteriors NC 520 Larned Loop, Suite 105 Cary NC 27513	Moderno 12'P x 14'W x 10'H in White	
			S1 Foundation	SCALE 1:75 PG. 2 OF 8

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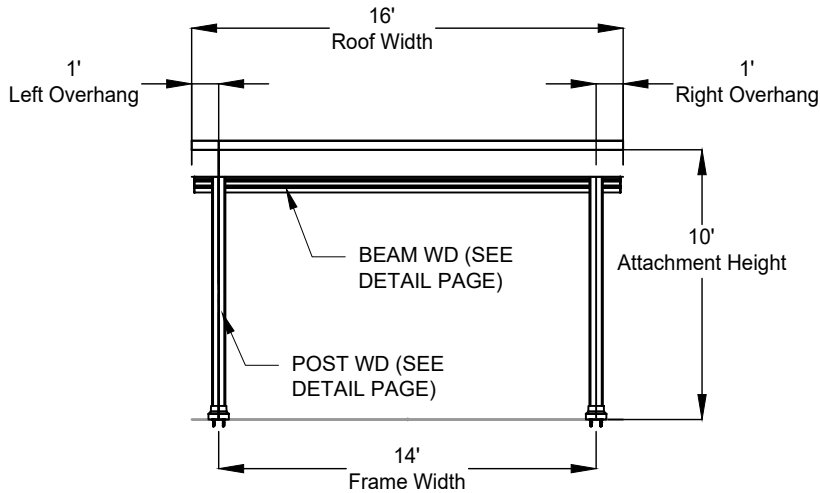
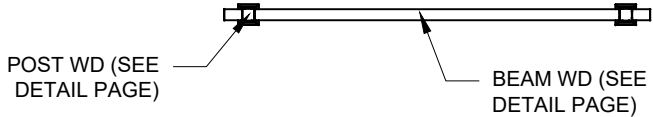
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ALUMINUM :

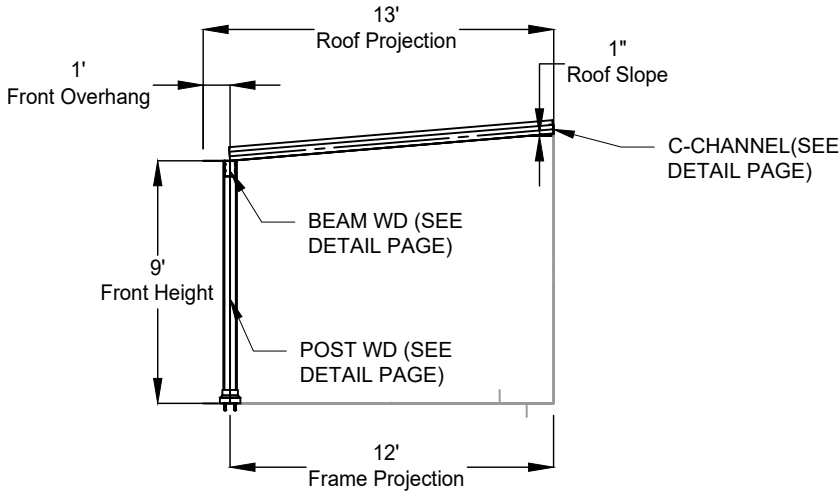
1. STRUCTURAL ALUMINUM SHALL BE 6005-T5 ALLOY, DESIGNED IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION'S SPECIFICATION FOR ALUMINUM STRUCTURES, LATEST EDITION.
2. ALUMINUM WELDING SHALL BE PERFORMED TO MEET THE LOCAL REQUIREMENTS OF THE BUILDING CODE SECTION WHICH REFERENCES WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS TO ACHIEVE ULTIMATE DESIGN STRENGTH IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL PART I-A, TABLE J.2.1. USE WELD FILLER 5356 OR BETTER ELECTRODES. ALL ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY AND METHODS OF CONSTRUCTION AS SET FORTH IN FBC SECTION 2003 AND THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE-ALUMINUM (D1.2). MINIMUM WELD IS 1/8" THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.



TOP



FRONT



RIGHT

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	Moderno 12'P x 14'W x 10'H in White	
	S2 Framing	SCALE 1:75 PG. 3 OF 8
Screen in COPIED 134405		

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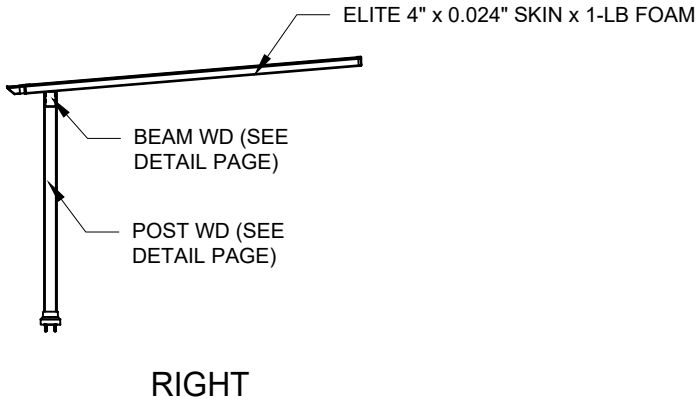
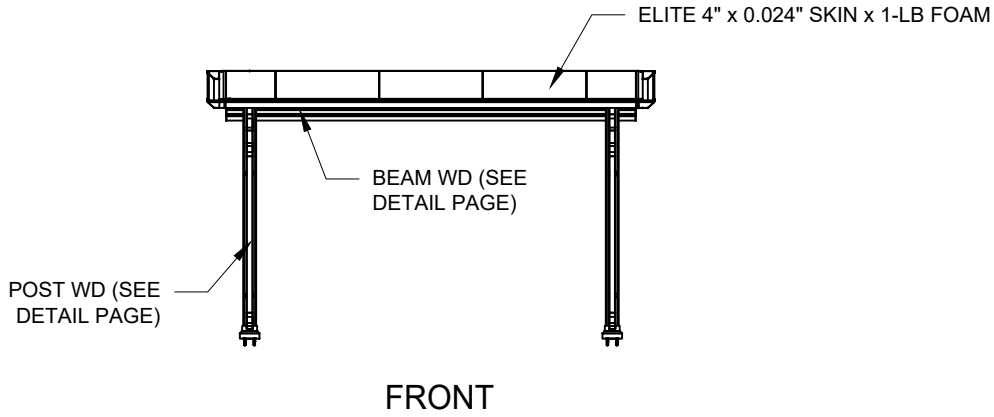
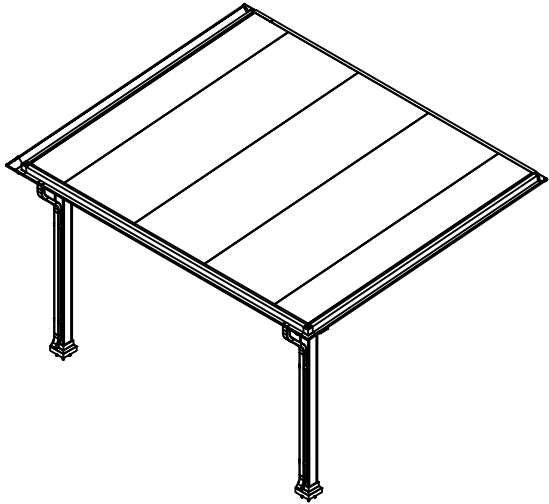
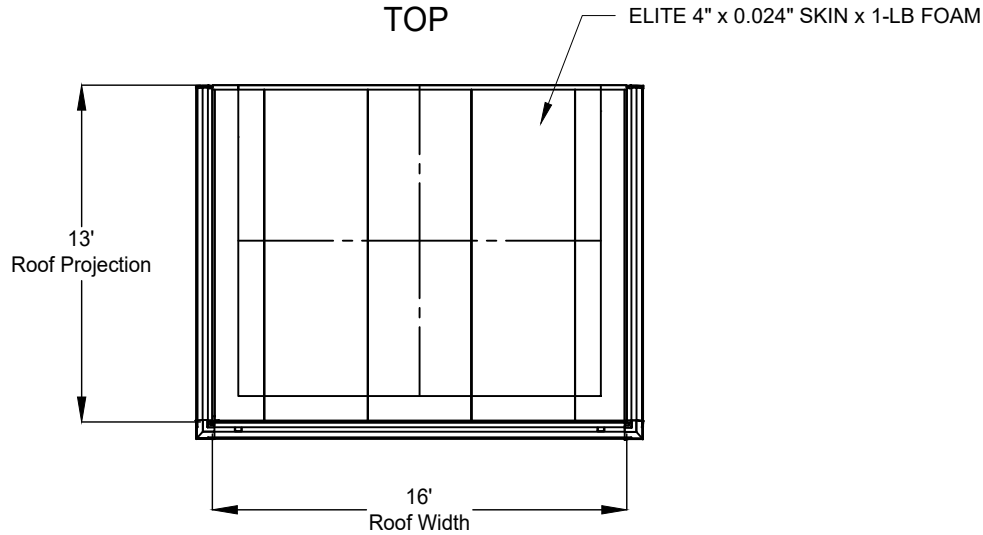
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STRUCTURAL INSULATED PANEL (SIP):

- 1. SIP SHALL BE MANUFACTURED BY ELITE ALUMINUM CORPORATION OR AN APPROVED EQUIVALENT MANUFACTURER. FLORIDA PRODUCT APPROVAL NUMBER FL#7561
- 2. MINIMUM ALUMINUM SKIN THICKNESS SHALL BE 0.024".
- 3. FOAM CORE TO BE MINIMUM 1.0 #/CF DENSITY EPS OR EQUIVALENT.
- 4. SEE MANUFACTURER APPROVED TABLE FOR PANEL CAPACITY.
- 5. DEFLECTION LIMITS USED L/120

ROOF PANEL: ELITE 4" x 0.024" SKIN x 1-LB FOAM



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S3 Roof	SCALE 1:75
	PG. 4 OF 8

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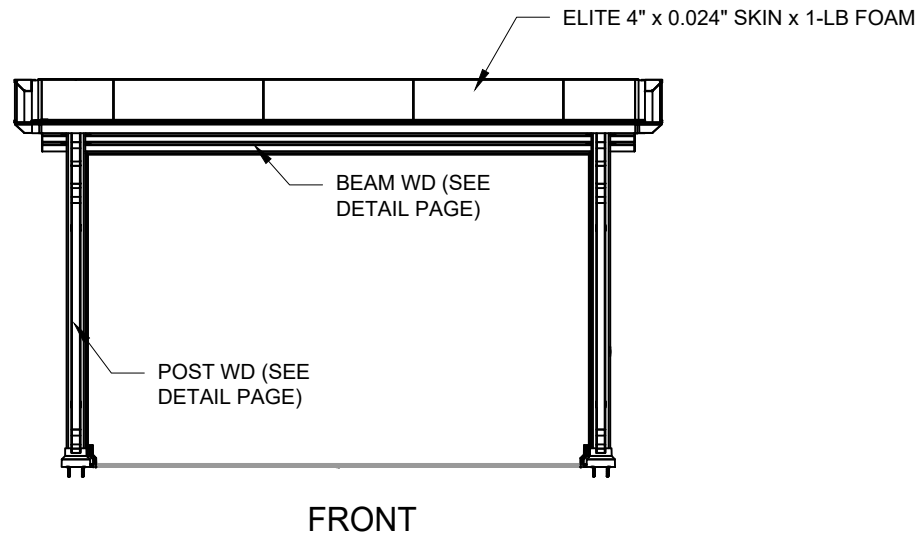
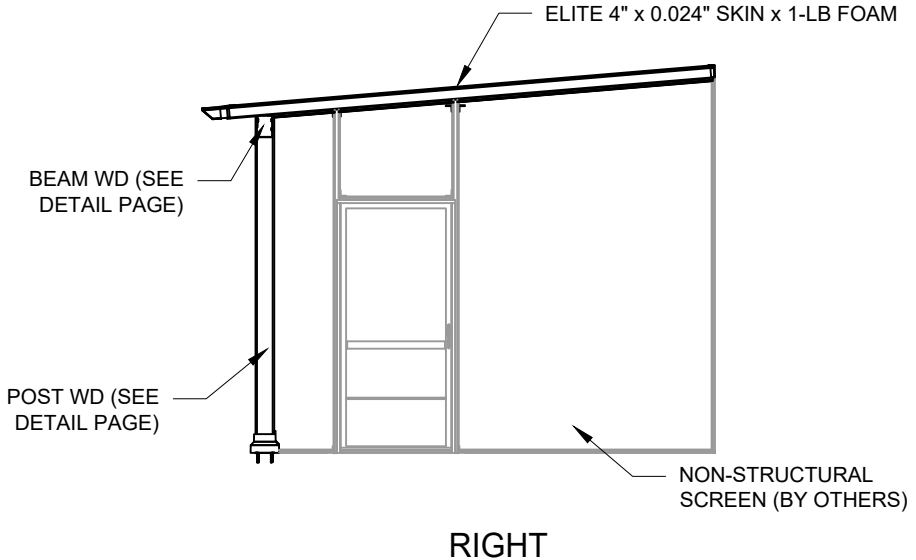
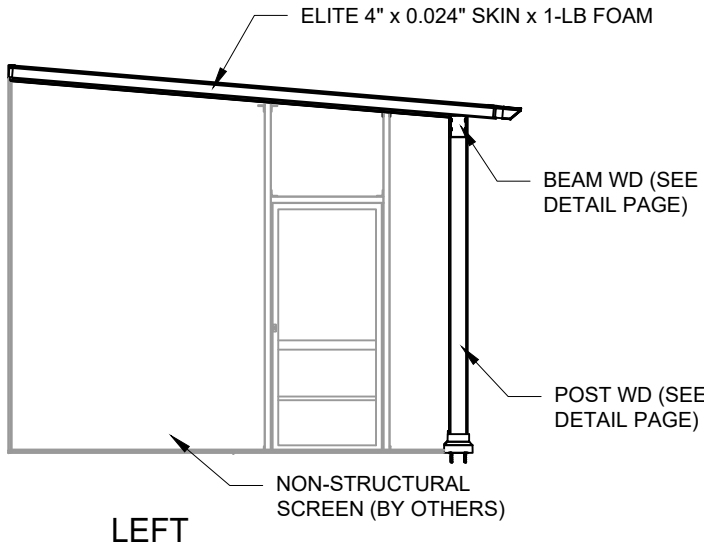
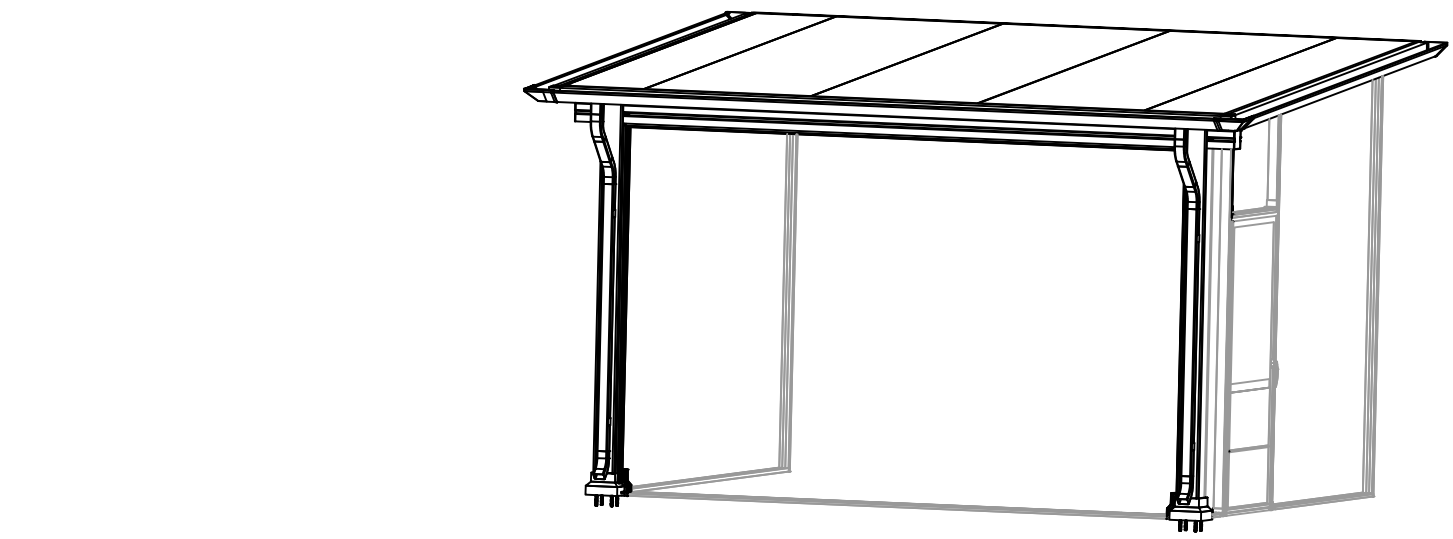
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		SCALE 1:60	PG. 5 OF 8

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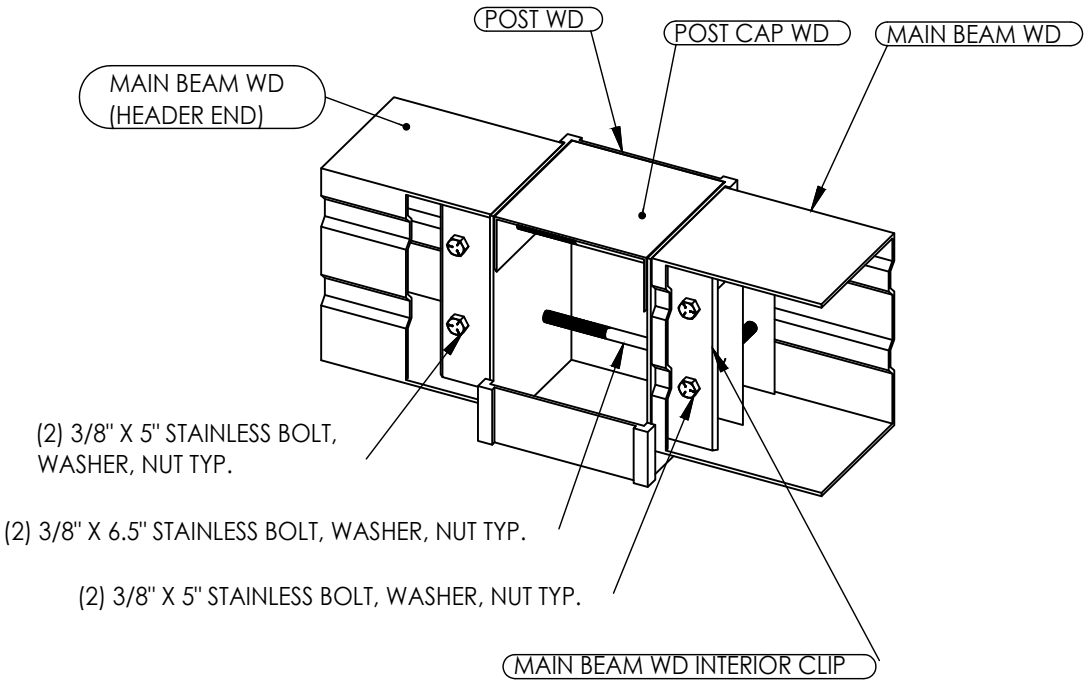
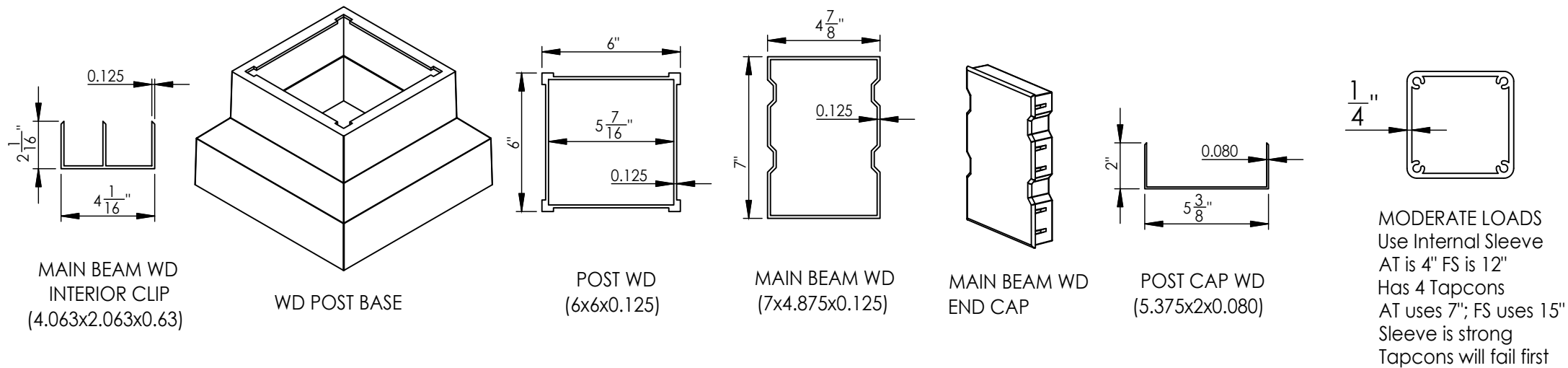
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WD POST FRAME DETAILS



POST WD / MAIN BEAM WD CONNECTION

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S6 Post WD		SCALE 1:60 PG. 6 OF 8

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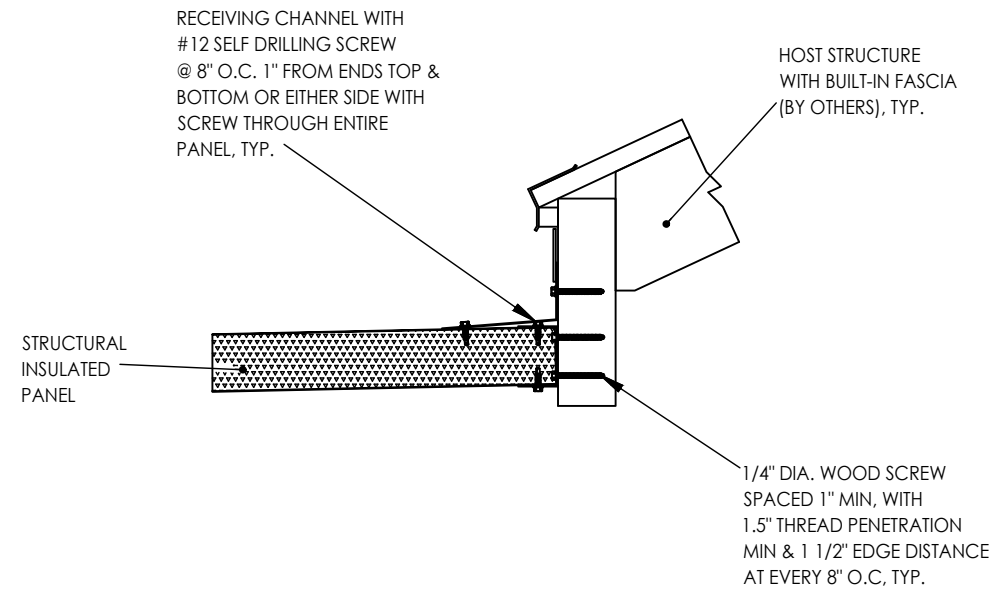
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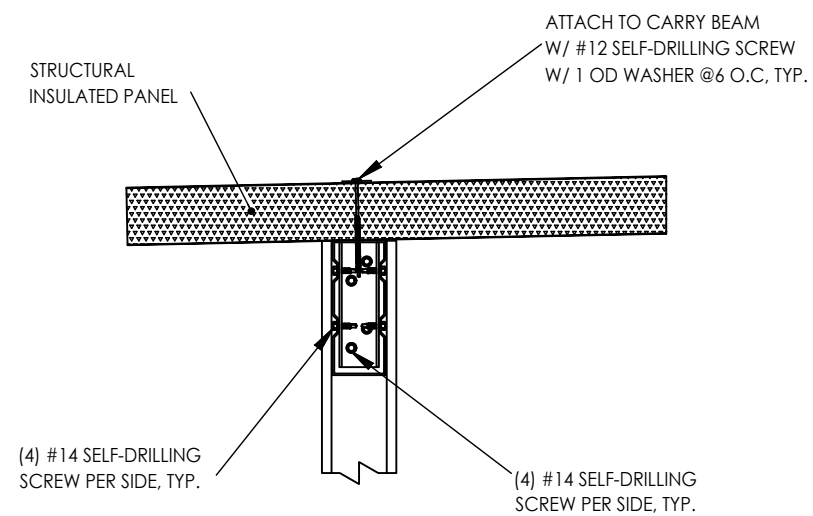
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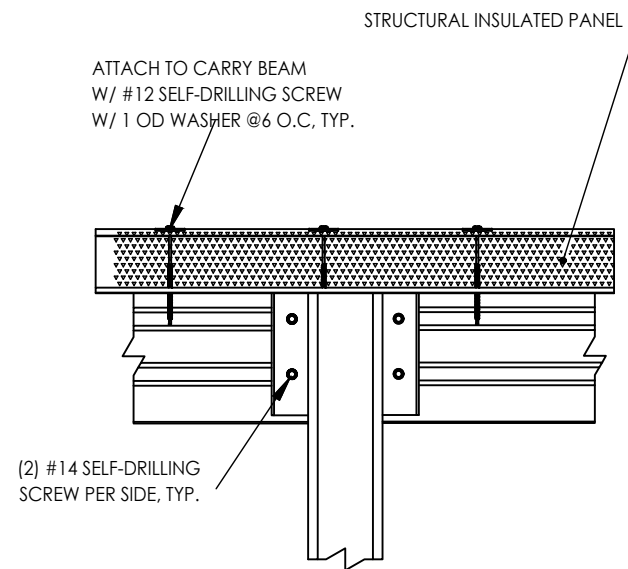
MODERNO PATIO COVER CONNECTION DETAILS



HOST CONNECTION
(WOOD FASCIA OR WALL)



PANEL/ PROJECTION & POST CONNECTION
(Side Facing View)



PANEL/ PROJECTION & POST CONNECTION
(Front Facing View)

Renaissance Patio Products Inc.
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Moderno 12'P x 14'W x 10'H in White

S7 Connection Moderna	SCALE 1:1	Screen in COPIED 134405
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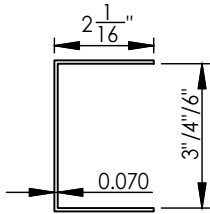
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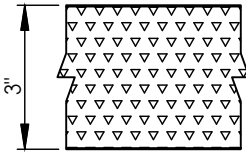
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MODERNO PATIO COVER STRUCTURAL PARTS



ROOF RECEIVING
CHANNEL 3"/4"/6"



STRUCTURAL INSULATED
PANEL (3", 4", 6")

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S8 Parts Moderno	SCALE 1:1	Screen in COPIED 134405	
		PG. 8 OF 8	

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