

Lakeshore Technical College - Expansion & Renovation of the Integrated Manufacturing Building  
 Lakeshore Technical College, Cleveland, WI  
 Canopy Shop Drawings - Section 08 45 23 Translucent Panel System Skylights

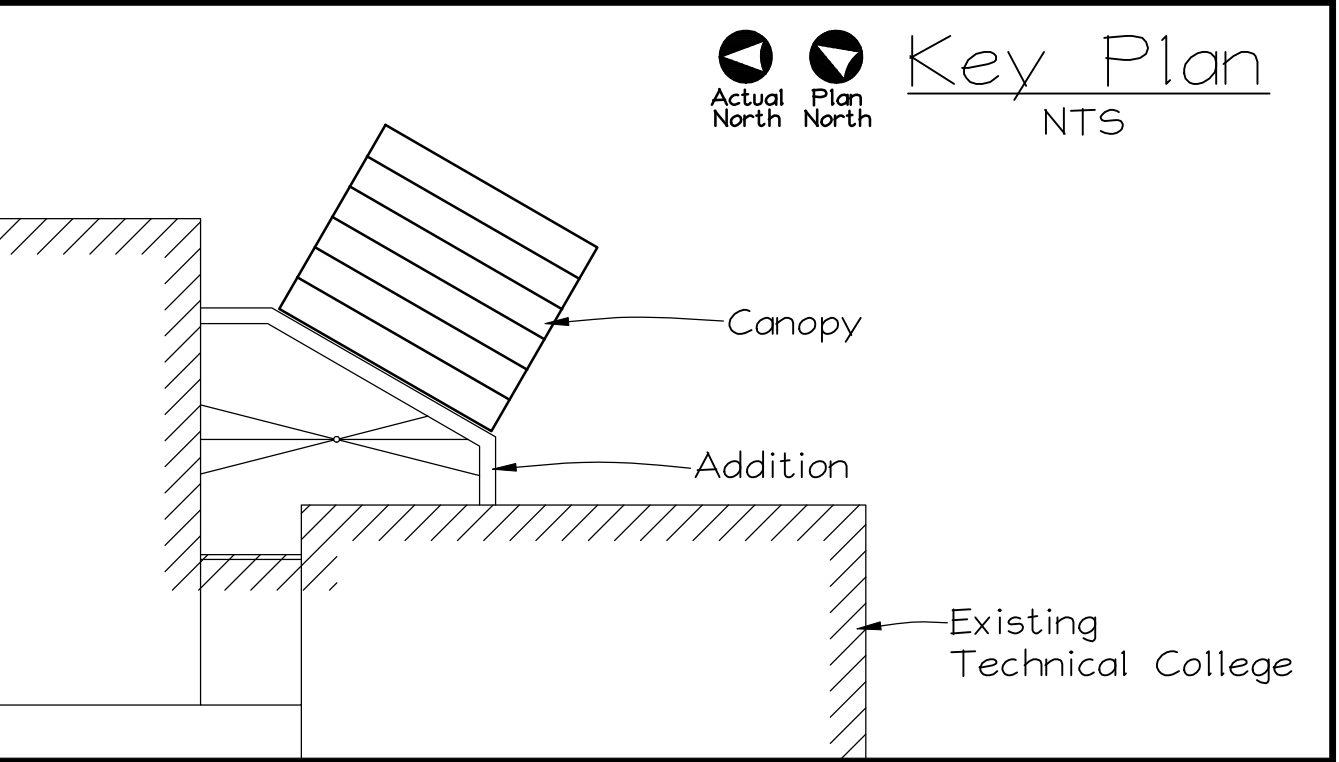
**ARCHITECT:**  
 Zimmerman Architectural Studios  
 2122 W. Mount Vernon Avenue  
 Milwaukee, WI 53233

**GENERAL CONTRACTOR:**  
 Quasius Construction, Inc.  
 1716 N. 16th Street  
 Sheboygan, WI 53081

**PRODUCT DATA:**  
Canopy Glazing: 20mm standing seam structured polycarbonate system with battens, color to be selected by architect from standard colors, samples provided under separate cover.  
Finish: Extruded aluminum members and flashings to have a 70% PVDF finish, color to be selected by architect from standard colors, color chart provided under separate cover.  
Warranty: Skylight Material Workmanship, 1 year. Glazing, including yellowing and LT, 10 years. Finish, 20 years.  
Product Approval: Wisconsin Solar Design Inc (WSD) is an approved manufacturer per Addendum #3.  
Test Reports: NFRC test reports for this system are available online at [www.wisconsinsolardesign.com](http://www.wisconsinsolardesign.com).  
Structural: Design Data: deflection,  $\Delta_{max} = \frac{1}{20} = .51"$  @ 5'-1" span, SL=35 psf (ground) / 30 psf (flat roof, min.), DL=10 psf, basic wind speed=90 mph. See below for framing member structural and physical characteristics. Maximum span = 5'-1". The WSD skylight system is designed for 10'+ spans and deemed structurally adequate by inspection for this fully supported system.

**NOTES:**

- Architect & Canopy Steel Contractor: Please note that canopy must be coordinated with steel. Canopy extents are per dimensions on sheet A2.1 and assumed steel dimensions are indicated herein on pages 2 & 6. Assumed radius at top of arched steel rafter is based on sheet A4.0 and is indicated herein on page 5.
- Wisconsin Solar Design will take field measurements. G.C. please notify WSD when tube steel beams and arched tube steel rafters are erected and ready for measuring.



**SHEET INDEX**

1	Cover Sheet	5	Canopy Sections
2	Framing Plans	6	Canopy Details
3	Canopy Plan	7	Canopy Details
4	Canopy Elevations		

Drawings by: James Thomack, Assoc. AIA,  
 Wisconsin Solar Design, Inc.

**DRAWING APPROVAL:**  
 We have reviewed these drawings and approve their use for construction of the canopy. Any comments or suggestions have been added to the drawings.

Architect:  
 Zimmerman Architectural Studios  
 name \_\_\_\_\_  
 title \_\_\_\_\_

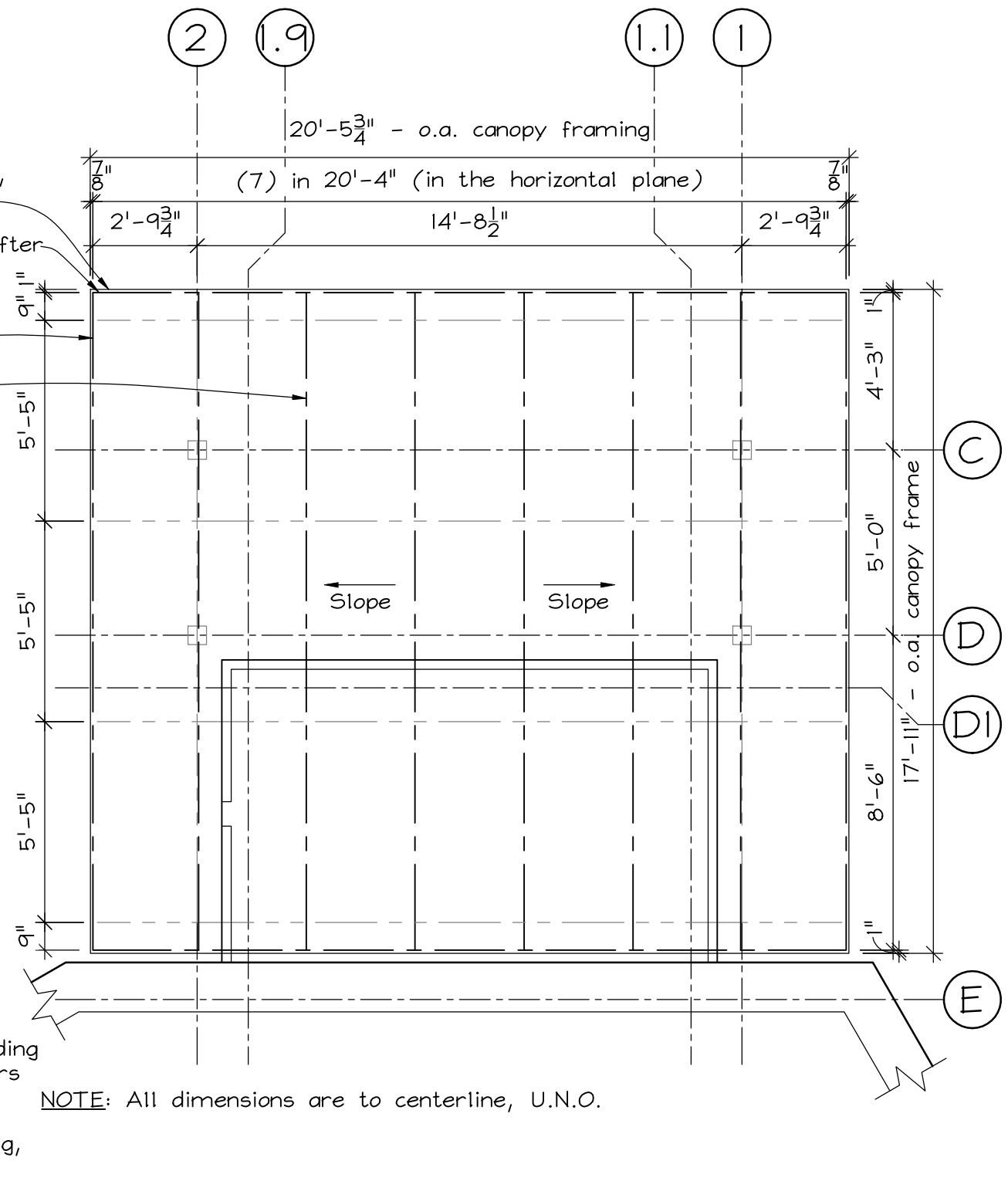
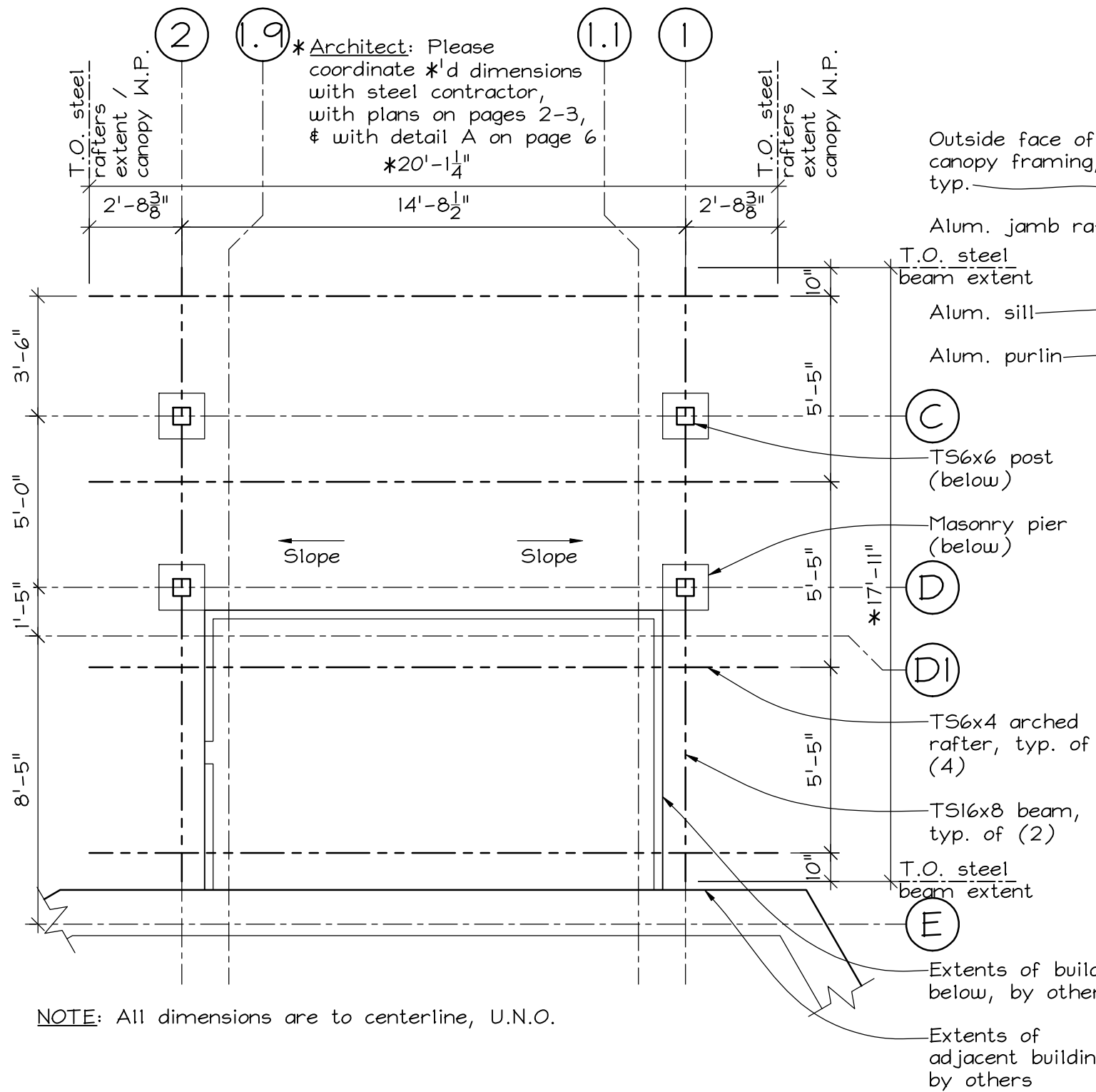
General Contractor:  
 Quasius Construction, Inc.  
 name \_\_\_\_\_  
 title \_\_\_\_\_



Rafter Structural Properties			
Wgt/ft	= 1.762 #		
A	= 3.77 in <sup>2</sup>		
Ix	= 1.832 in <sup>4</sup>		
Sx	= 1.218 in <sup>3</sup>		



Manufacturer/Installer:  
**WISCONSIN SOLAR DESIGN**  
 6349 Briarcliff Ln., Middleton, WI 53562

Project:  
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 1290 N. Ave, Cleveland, WI 53015

Architect:  
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Plan - Supporting Steel (by others)    
 Scale: 1/4" = 1'-0"  
 Actual Project

Plan - Canopy Framing    
 Scale: 1/4" = 1'-0"  
 Actual Project

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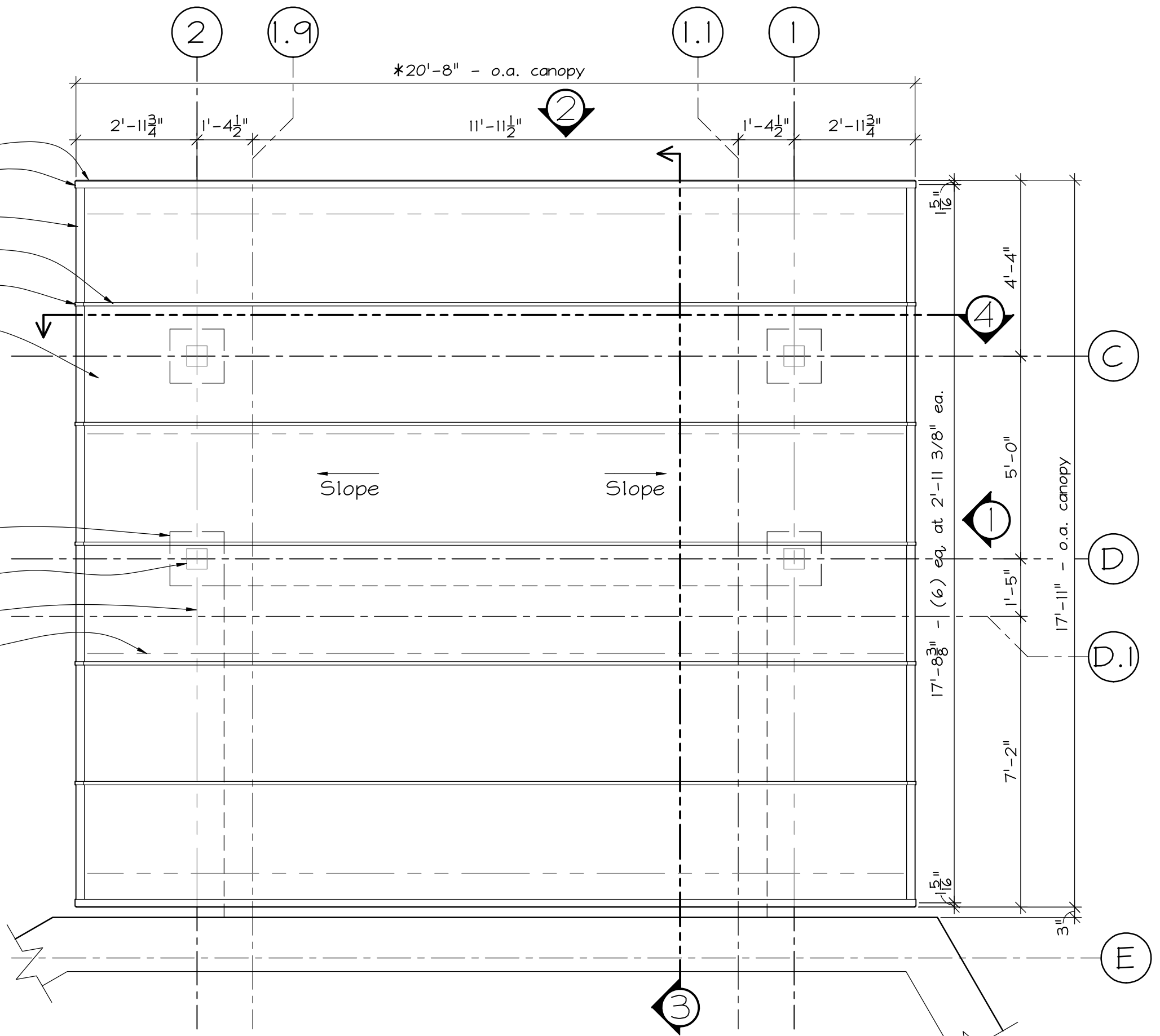
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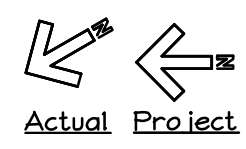
- Aluminum rake closure
- Aluminum bar cap
- Aluminum sill closure
- Polycarbonate batten
- Aluminum batten cap
- 20mm structured polycarbonate glazing panel

- Line of masonry pier (below), by others
- Steel post (below), by others
- Steel beam (below), by others
- Steel rafter (below), by others

\*Architect: Please coordinate this dimension with steel contractor, with plans on pages 2-3, & with detail A on page 6



Plan - Canopy Glazing  
Scale: 3/8" = 1'-0"

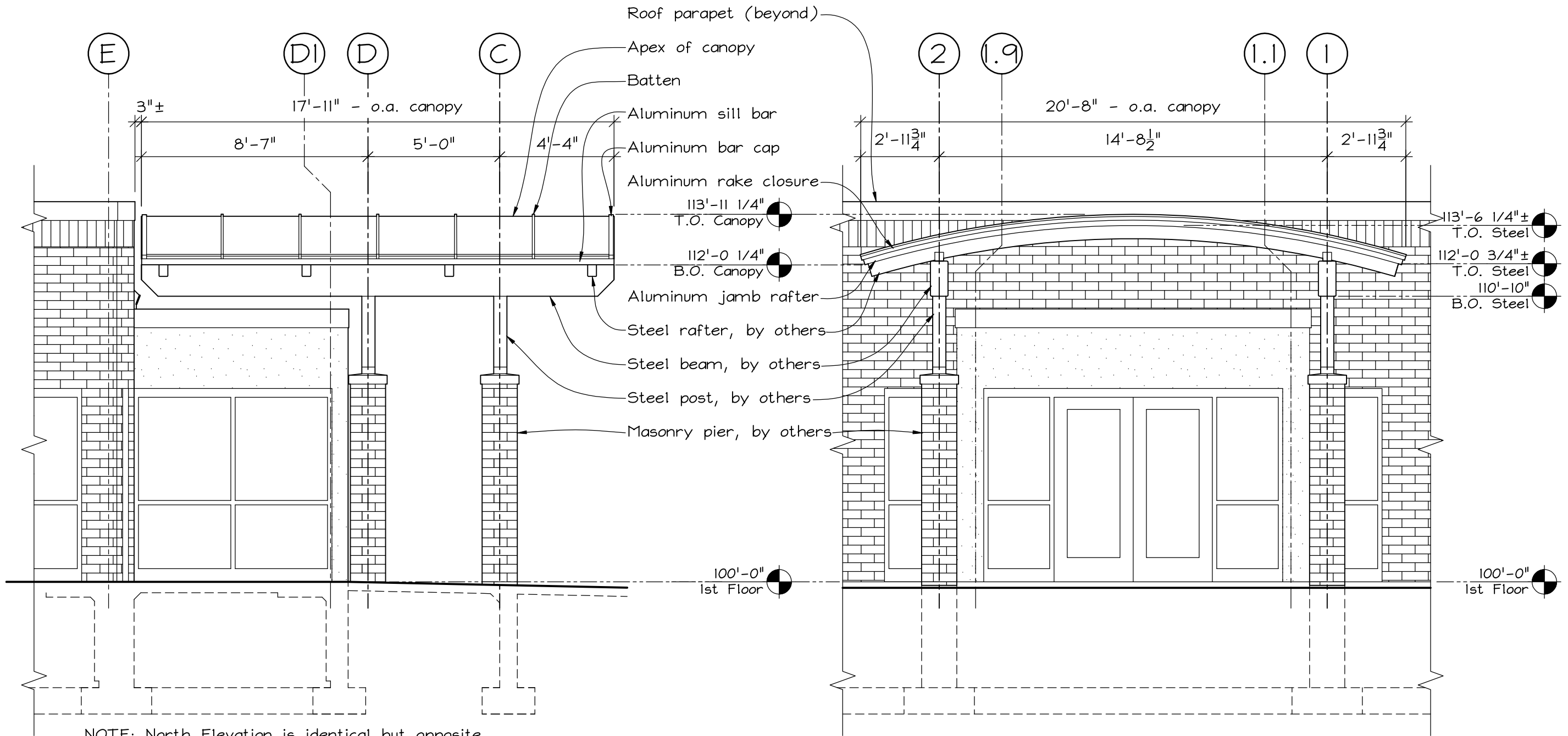


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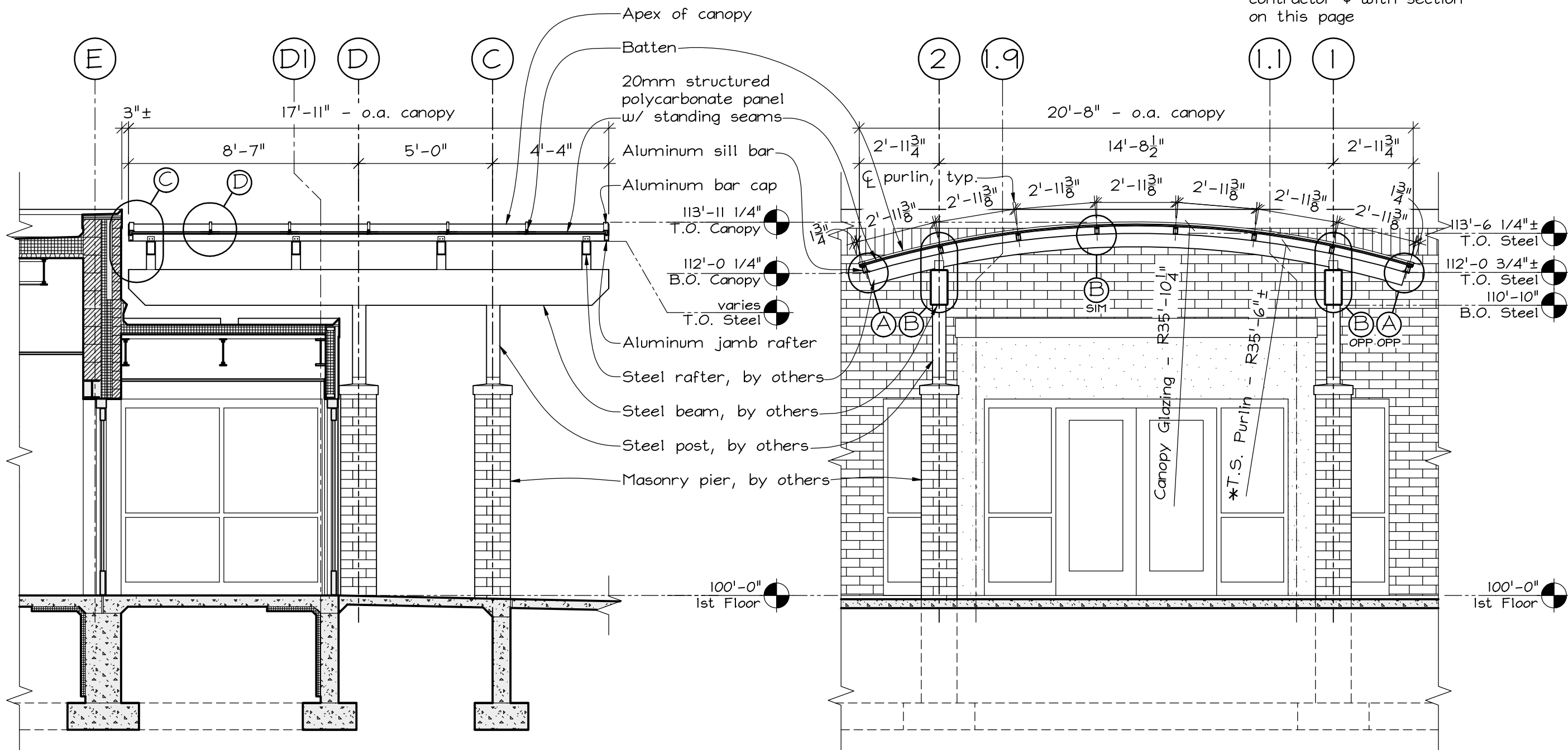
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① South Elevation  
Scale: 1/4" = 1'-0"

② East Elevation  
Scale: 1/4" = 1'-0"



\* Architect: Please coordinate this radius dimension with steel contractor & with section on this page

③ Section - E/W  
Scale: 1/4" = 1'-0"

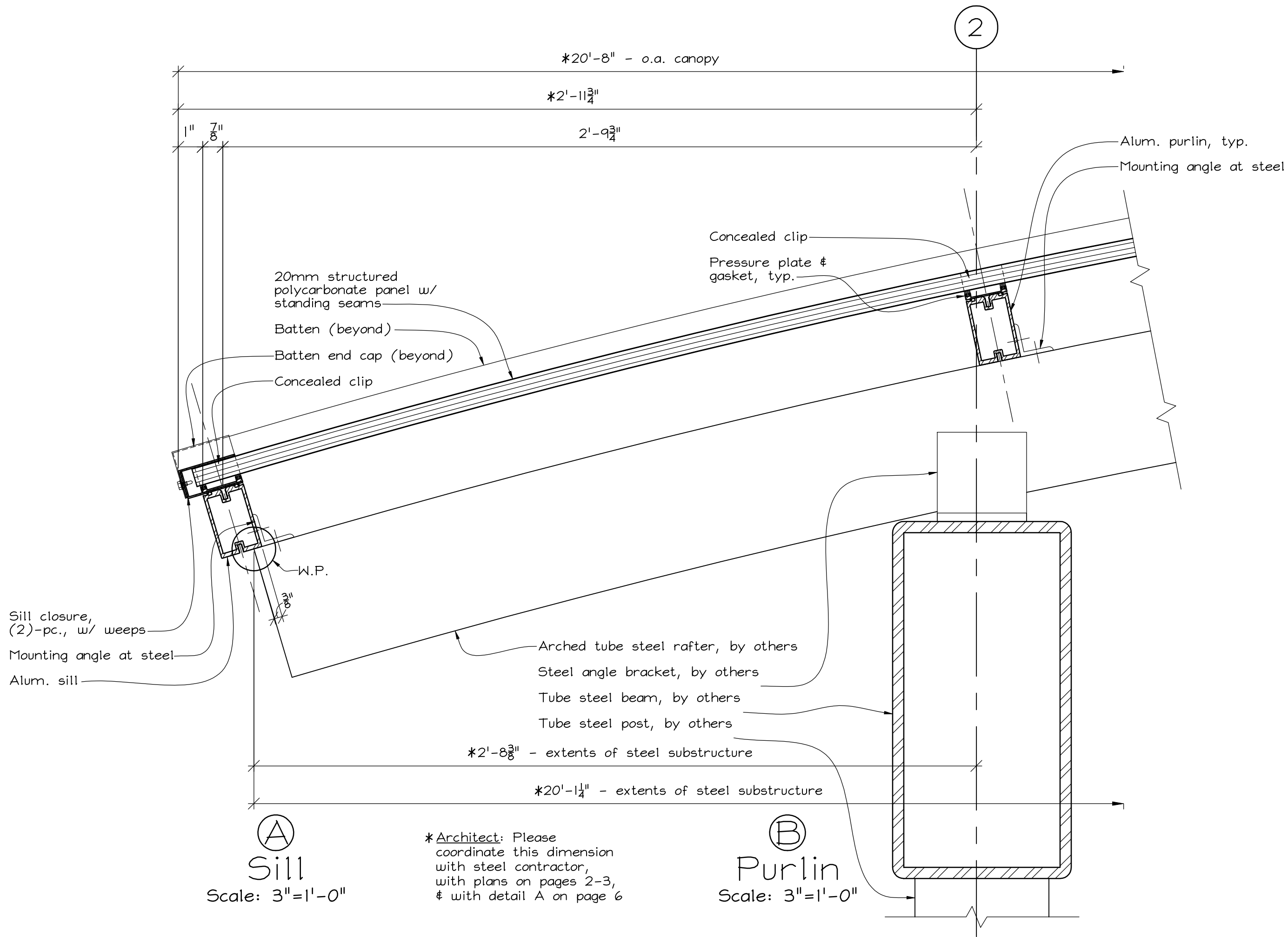
④ Section - N/S  
Scale: 1/4" = 1'-0"

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Ⓐ  
Sill  
Scale: 3"=1'-0"

\*Architect: Please coordinate this dimension with steel contractor, with plans on pages 2-3, & with detail A on page 6

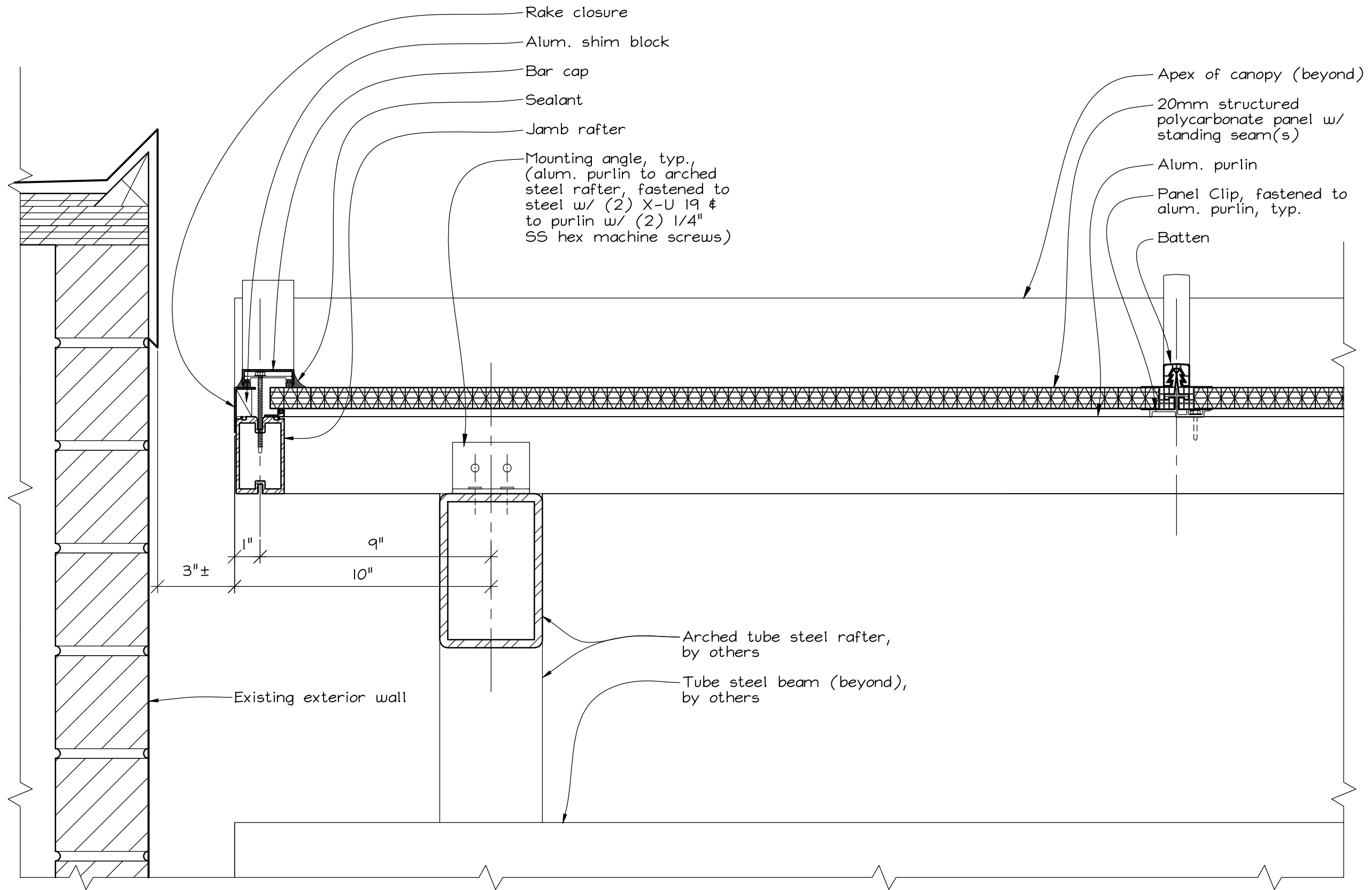
Ⓑ  
Purlin  
Scale: 3"=1'-0"

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©  
 Rake / Purlin @ steel  
 Scale: 3"=1'-0"

Ⓓ  
 Panels at purlin  
 Scale: 3"=1'-0"

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