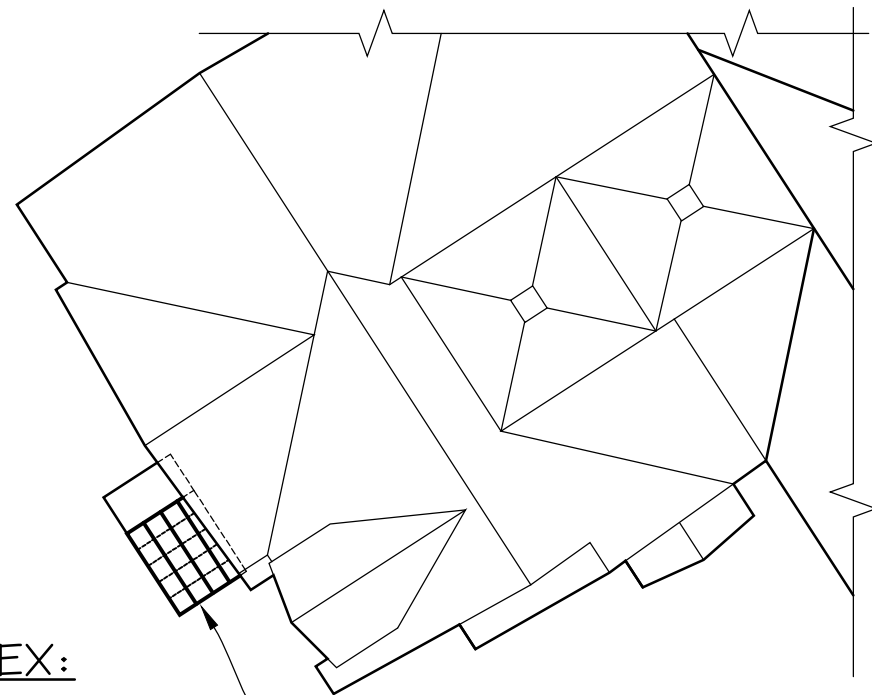


Shop Drawings for Section 13123 - Glazed Structures

Maryhill Manor Addition & Remodel, Enderlin, ND 58027



INDEX:

1. Title Page
2. Solarium Plan
3. Longitudinal Section
4. Transverse Section / Elevation
5. Elevation
6. Details / Assembly Sample Pictorial
7. Details
8. Details

Key Plan
Not to scale

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

Architect:
EAPC Architect Engineers

name (signed) _____

name (printed) _____

title _____ date _____

Construction Manager:
C D Inc.

name (signed) _____

name (printed) _____

title _____ date _____

Drawings prepared by: James Thomack, WSD

CM:

C D Inc.
3100 Demers Ave.
Grand Forks, ND 58201

GENERAL CONTRACTOR:

Diversified Contractors, Inc.
PO Box 10506
Fargo, ND 58103

OWNER:

Maryhill Manor
110 Hillcrest Dr
Enderlin, ND 58027

PRODUCT DATA:

1. Insulated Glass: safety glass, low-e #2, 1/4" clear tempered glass lites, argon-filled, 1" o.a., SHGC = 0.45 max. U-value = 0.34.
2. Finish: two-coat, 70% percent fluoropolymer finish, color charts to be forwarded by mail for color selection.
3. Warranty: (2) years on design, material, construction, leakage; (3) years on finish and glass against delamination and seal failure.
4. Design Data: deflection, $\Delta_{max} = \frac{1}{180} = 0.93"$, SL=40psf, DL=12.1psf, WL=21.8psf. See page 8 of 8 for framing member structural and physical characteristics. Structural calculations submitted separately.
5. Preparation: materials will be carefully packaged & shipped to the site in the manufacturer's trucks. Upon inspection on-site, all damaged items will be immediately replaced.
6. Storage: materials will be stored on-site prior to installation in a suitable location to prevent damage by weather or traffic.
7. Installation: The manufacturer's experienced staff will install the structure in accordance with the highest standards of professional practice of the industry.
8. Product Approval: Wisconsin Solar Design is an approved manufacturer per addendum #2.

NOTES:

1. GC; please provide confirmed framing-to-slab edge, eave & ridge beam height dimensions, & roof pitch, noted thus * on pages 2 and 3 to be used for solarium fabrication.
2. GC, please provide counter-flashing at rake trim under existing roof. See detail (K) on page 7 of 8.
3. A/E, GC; the work of this section includes no interior or construction doors. Please schedule this work so that the temporary egress requirements to not interfere with the construction of the glazed structure.
4. A/E; please note that serviceability of solarium is dependent upon structural stability of the foundation.

Manufacturer/Installer:

WISCONSIN SOLAR DESIGN



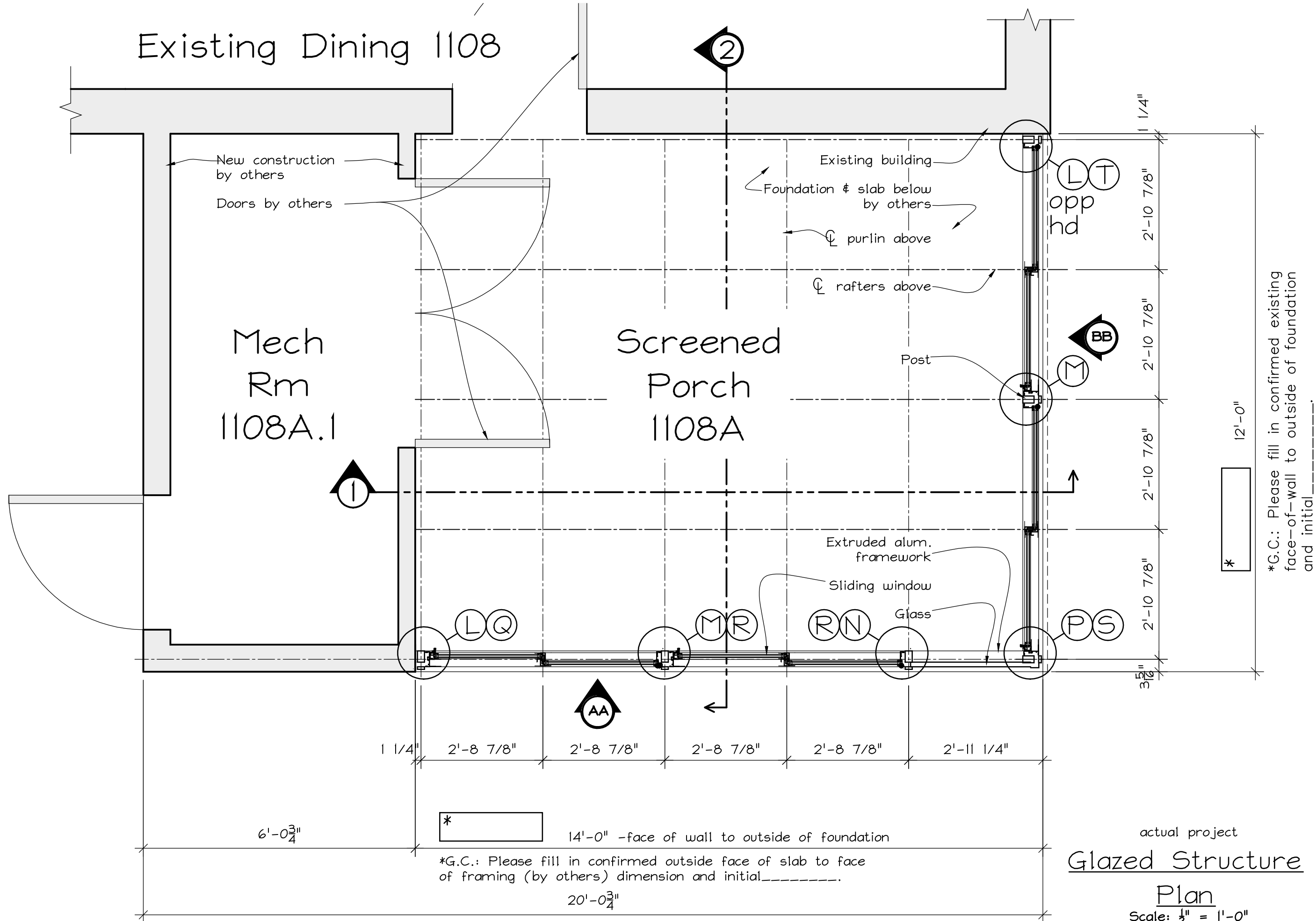
6349 Briarcliff Ln., Middleton, WI 53562

Project:
Maryhill Manor Addition &
Remodel
110 Hillcrest Dr.
Enderlin, ND 58027

Architect:
EAPC Architect Engineers
112 N Roberts St.
Ste 300
Fargo, ND 58102

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Issued:
8/22/11



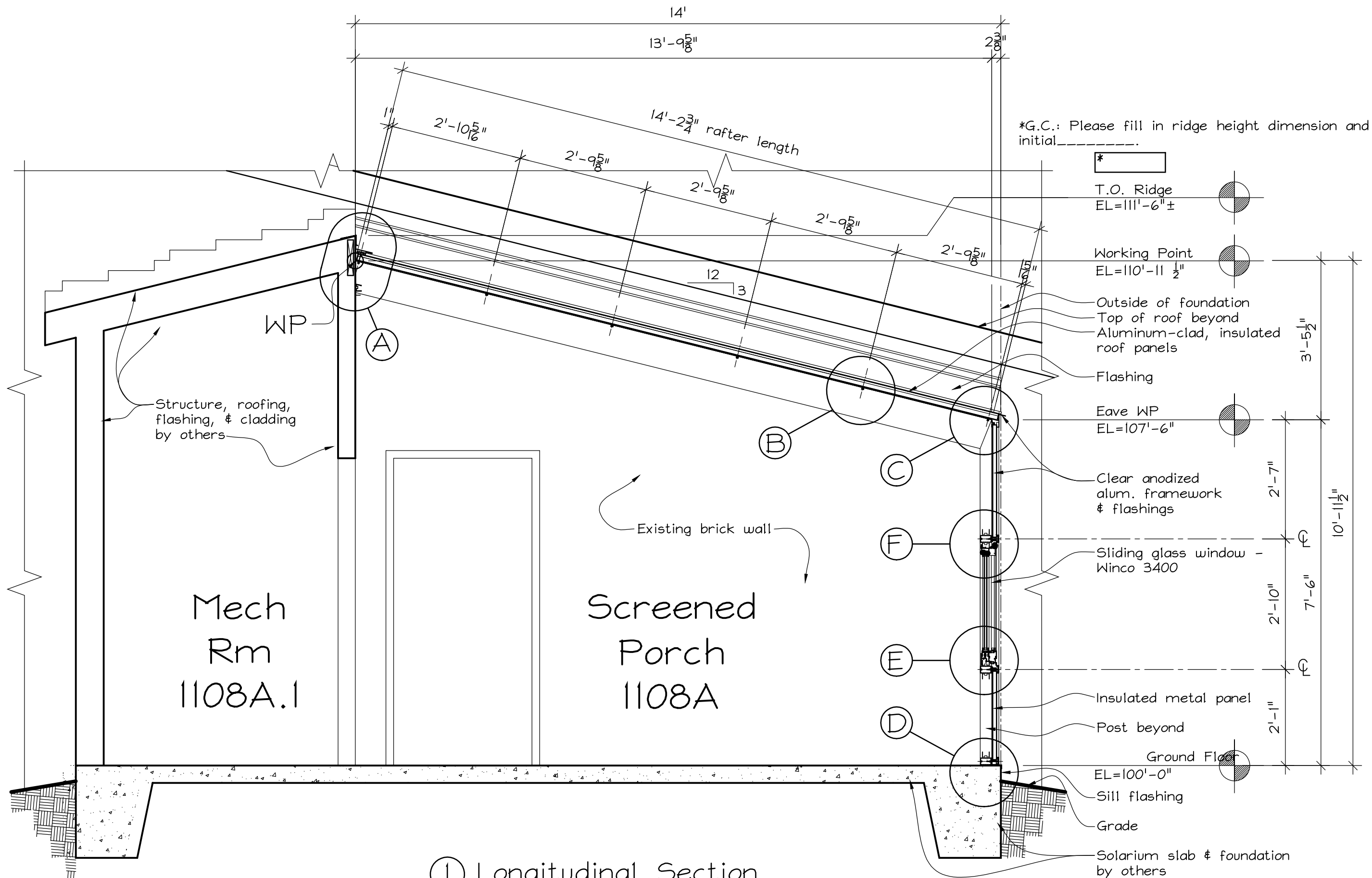
actual project
Glazed Structure
Plan
 Scale: $\frac{1}{2}" = 1'-0"$

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

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 112 N Roberts St.
 Ste 300
 Fargo, ND 58102

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① Longitudinal Section
Scale $\frac{1}{2}" = 1'-0"$

*G.C.: Please fill in ridge height dimension and initial_____.

*

T.O. Ridge
EL=111'-6"±

Working Point
EL=110'-11 1/2"

Outside of foundation
Top of roof beyond
Aluminum-clad, insulated
roof panels

Flashing

Eave WP
EL=107'-6"

Clear anodized
alum. framework
& flashings

Sliding glass window -
Winco 3400

Insulated metal panel

Post beyond

Ground Floor
EL=100'-0"

Sill flashing

Grade

Solarium slab & foundation
by others

Manufacturer/Installer:

WISCONSIN SOLAR DESIGN



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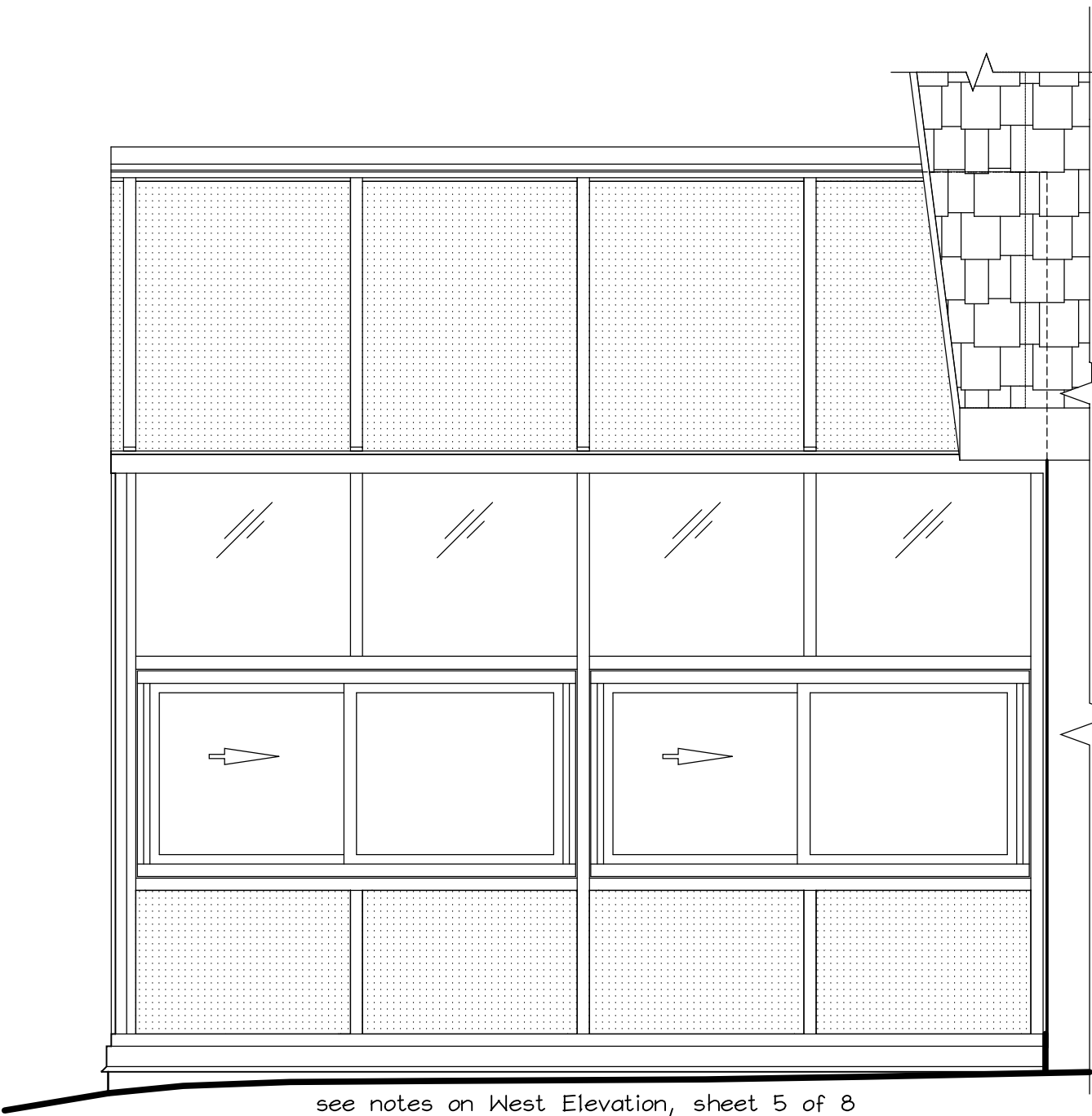
110 Hillcrest Dr.
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Architect:
EAPC Architect Engineers
112 N Roberts St.
Ste 300

Fargo, ND 58102

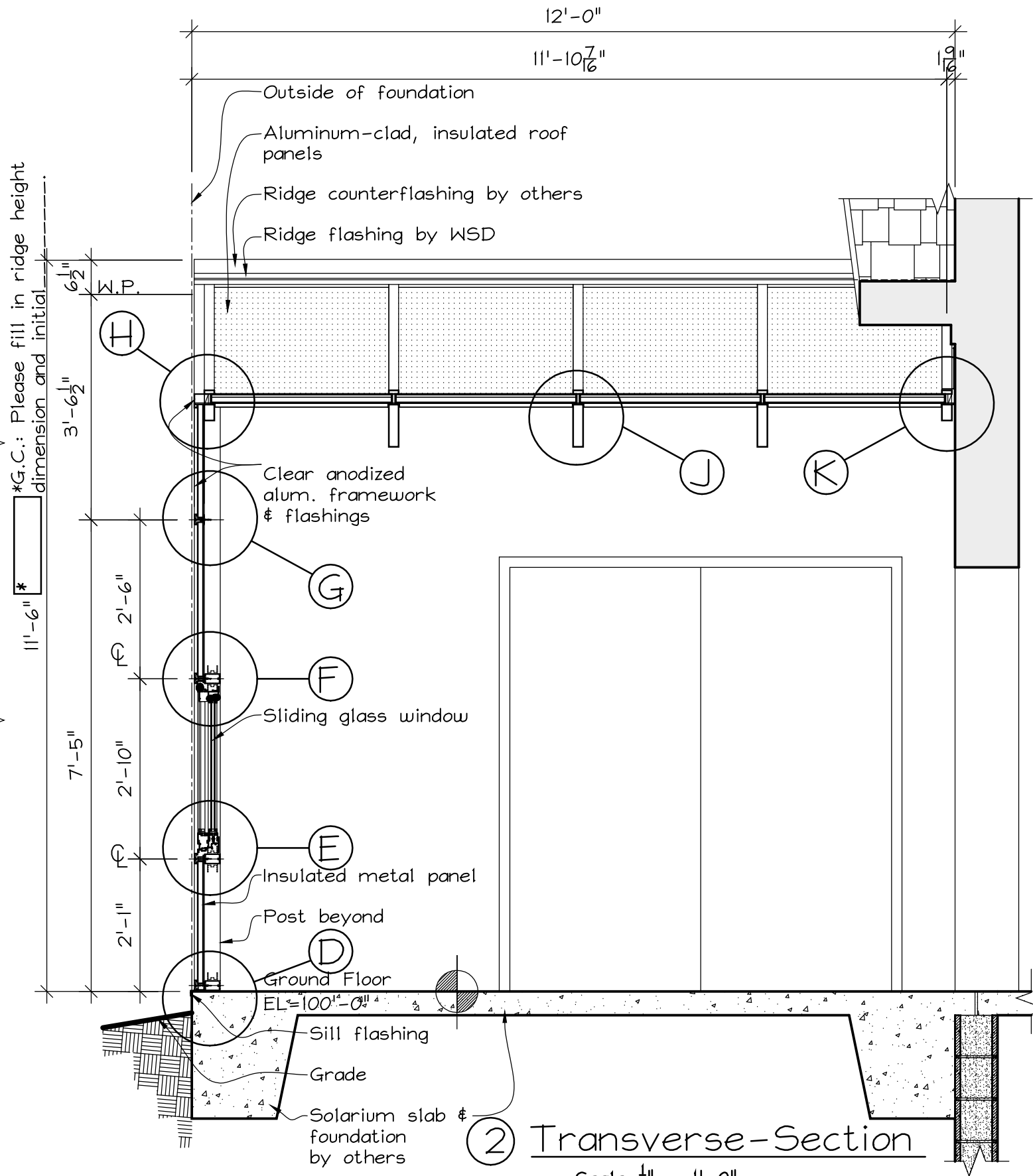
3 of 8

Issued:
8/22/11



see notes on West Elevation, sheet 5 of 8

BB South Elevation
Scale $\frac{1}{2}" = 1'-0"$



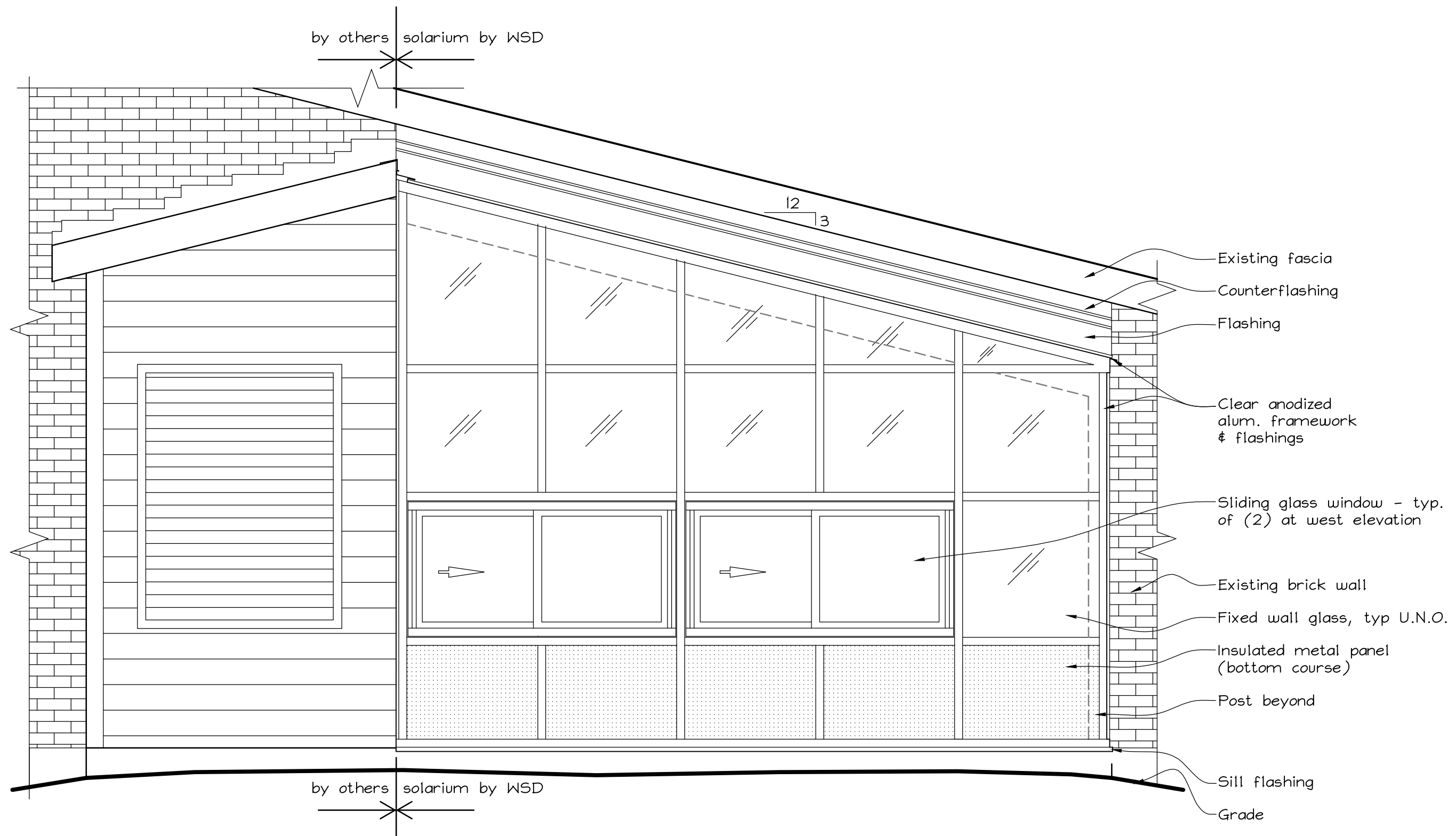
2 Transverse-Section
Scale $\frac{1}{2}" = 1'-0"$

Manufacturer/Installer:
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Ⓐ West Elevation
Scale $\frac{1}{2}" = 1'-0"$

Manufacturer/Installer:
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Flashing by GC
 Counterflashing beneath
 roof rake by GC
 Flashing (beyond) by
 WSD
 Ridge counterflashing
 by GC
 Framing & roofing by
 GC
 Ridge flashing by WSD
 W.P.
 Purlin bar
 Concealed clip
 Rafter (beyond)
 Extruded alum. ledger

Barcap beyond

Roof panel: $\frac{1}{2}$ " plywood on 1" rigid insulation
 w/ aluminum facing adhered to both sides

Purlin bar (continuous, coped at rafters), typ.

Ⓐ
Ridge
 Scale: 3"=1'-0"

Ⓑ
Purlin
 Scale: 3"=1'-0"

Ⓒ
Eave
 Scale: 3"=1'-0"

Ⓓ
Sill
 Scale: 3"=1'-0"

Rafter beyond

Barcap beyond

Lap aluminum facing over
 eave closure & seal

Eave closure

Purlin bars

Sealant

Barcap beyond

Wall glass

Insulated metal panel

Post (beyond)

Concealed post clip

Extruded Alum. sill

Sealant

Sill flashing

Foundation/slab by GC

Manufacturer/Installer:

WISCONSIN SOLAR DESIGN

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Architect:

EAPC Architect Engineers

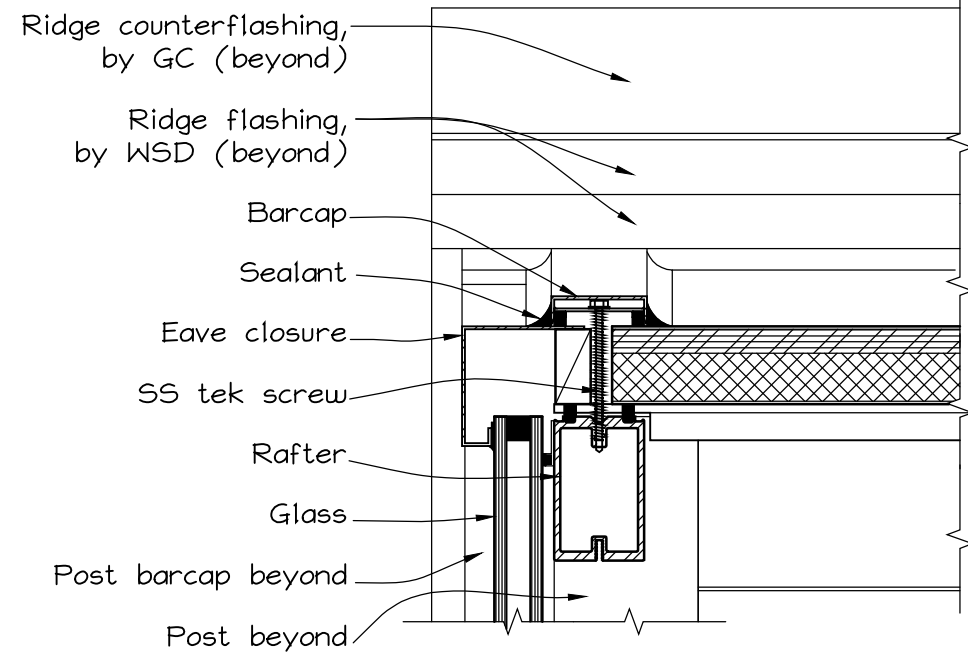
112 N Roberts St.

Ste 300

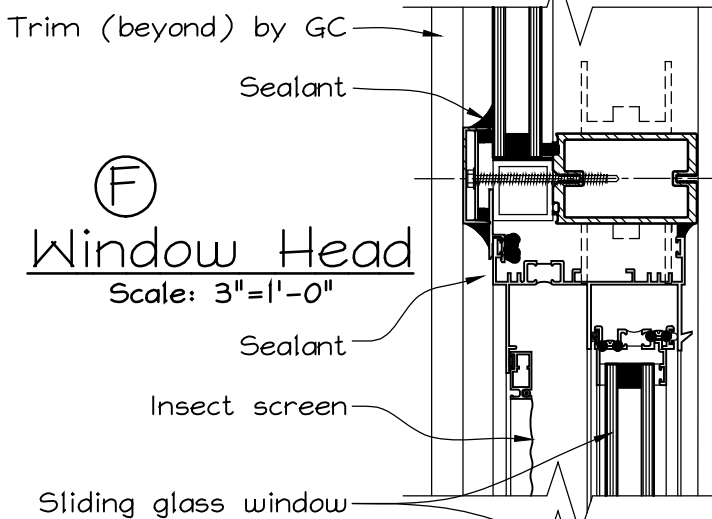
Fargo, ND 58102

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Issued:
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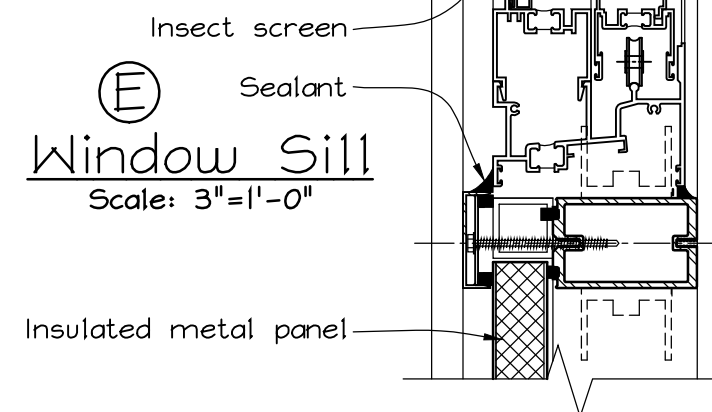


Ⓒ Mullion
Scale: 3"=1'-0"

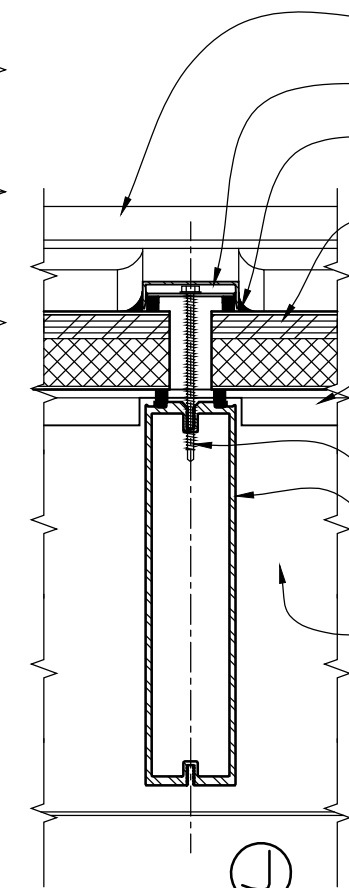


Ⓕ Window Head
Scale: 3"=1'-0"

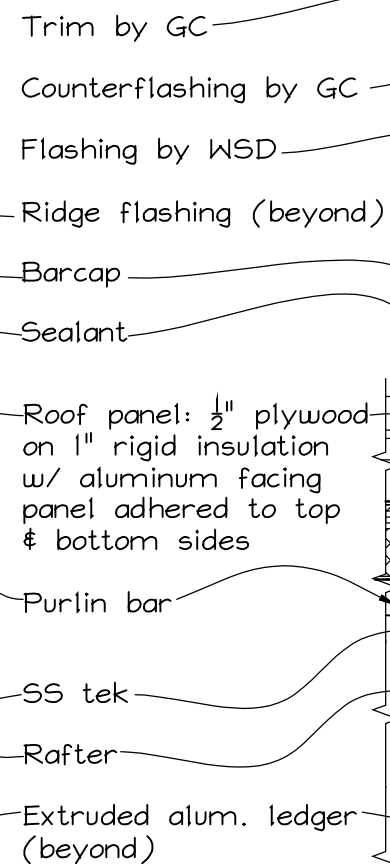
Ⓖ Window Sill
Scale: 3"=1'-0"



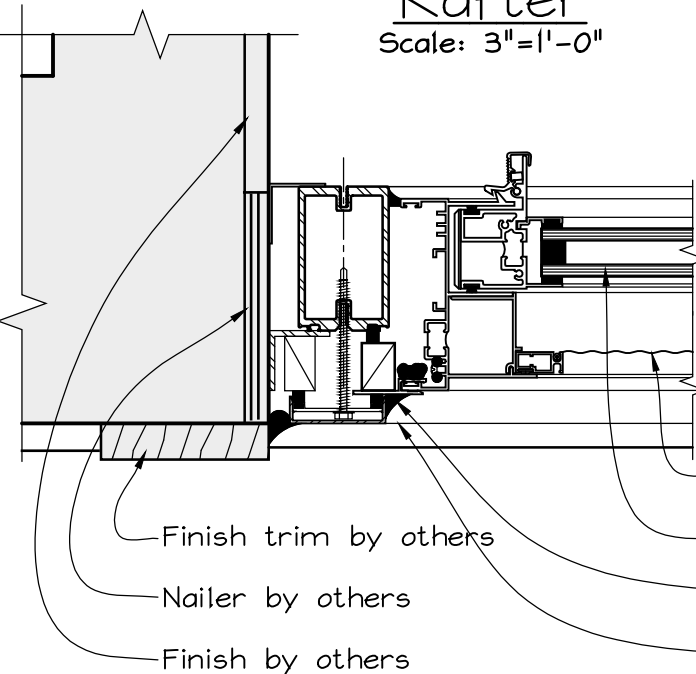
Ⓓ Rake
Scale: 3"=1'-0"



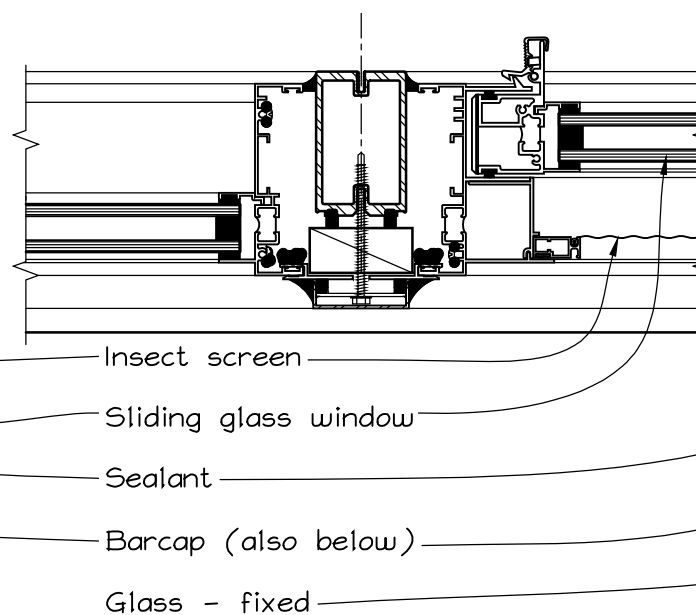
Ⓙ Rafter
Scale: 3"=1'-0"



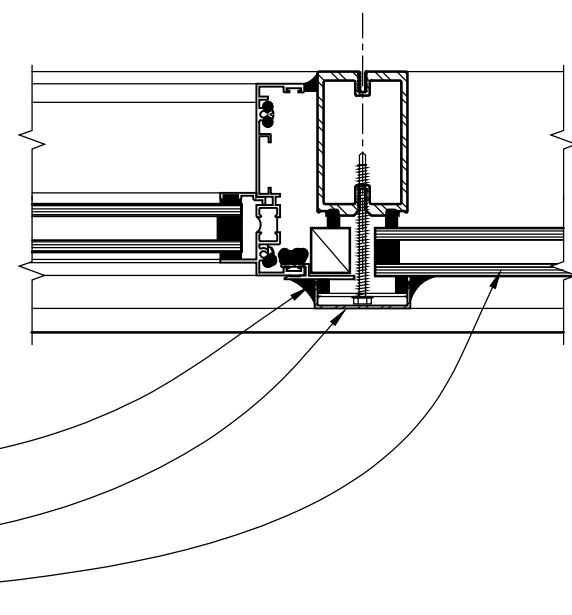
Ⓚ Existing Wall Connection
Scale: 3"=1'-0"



Ⓛ Slider - Jamb
Scale: 3"=1'-0"



Ⓜ Slider - Mullion
Scale: 3"=1'-0"



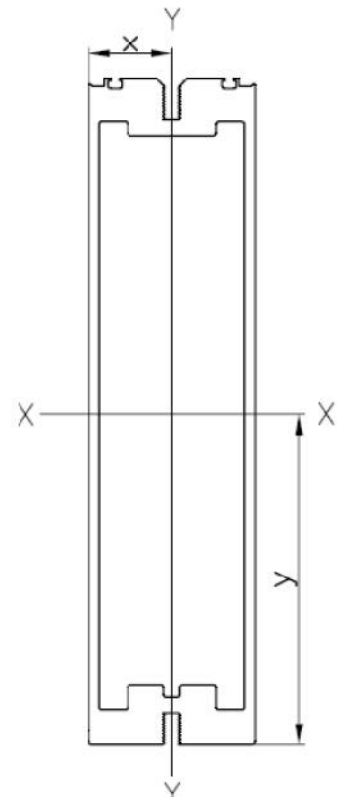
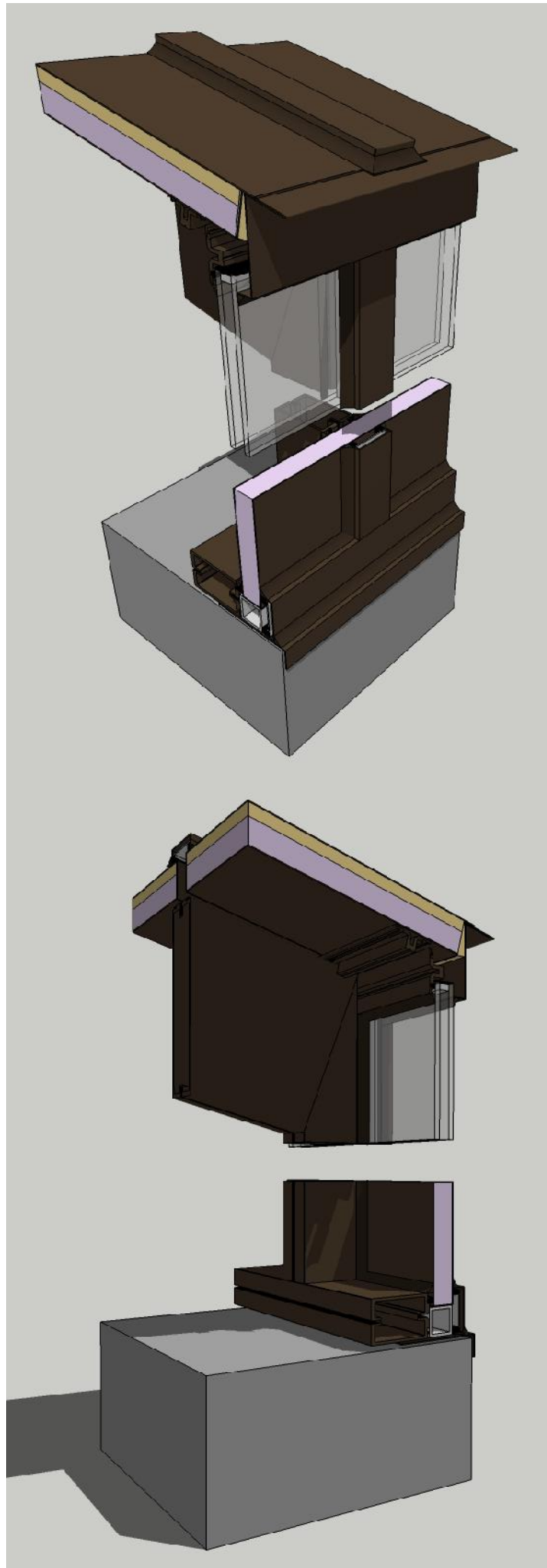
Ⓝ Sliding/Fixed - Mullion
Scale: 3"=1'-0"

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Manufacturer/Installer:
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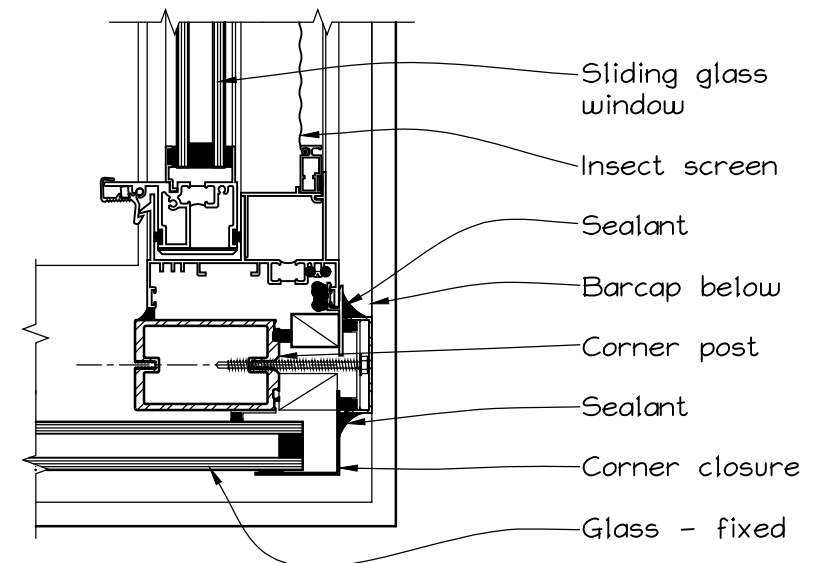


2x8 Glazing Bar

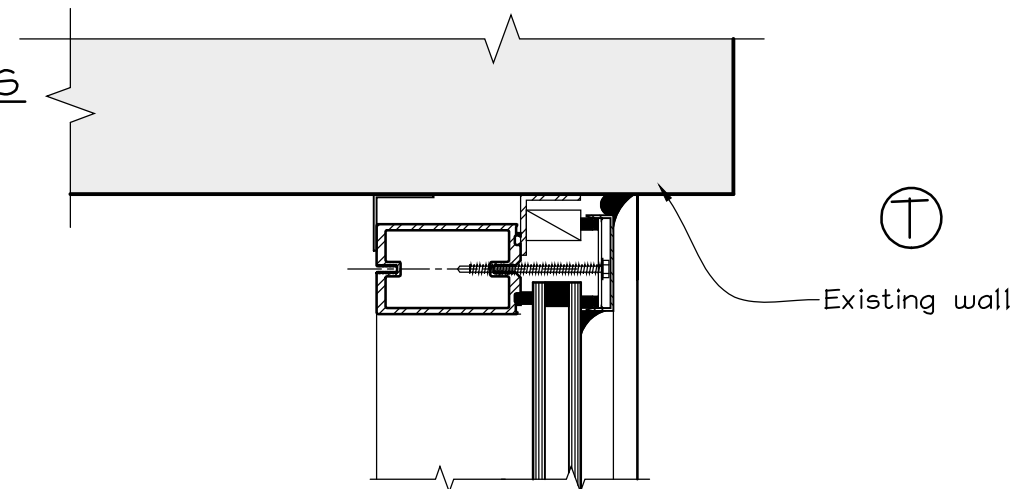
| Shape | Weight per foot lb | Area in ² | Axis X-X | | | | Axis Y-Y | | | |
|-----------------|--------------------------|-------------------------|----------------------|----------------------|---------|---------|----------------------|----------------------|---------|---------|
| | | | I in ⁴ | S in ³ | r in | y in | I in ⁴ | S in ³ | r in | x in |
| 2x8 Glazing Bar | 4.835 | 3.9646 | 35.9468 | 9.0669 | 3.0466 | 3.9646 | 2.1794 | 2.1794 | 0.7502 | 1.0000 |

Pictorial
Scale: NTS

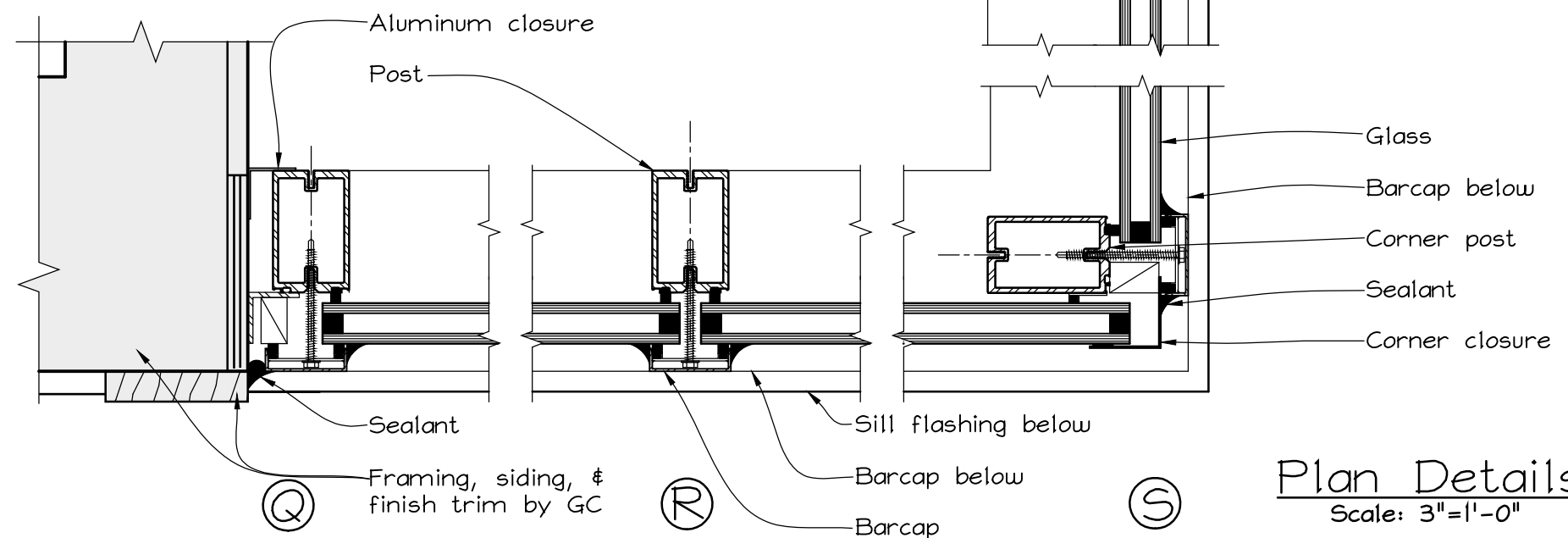
Engineering Properties
of Glazing Bar
Scale: NTS



Ⓟ



Ⓣ



Plan Details
Scale: 3"=1'-0"

Manufacturer/Installer:
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