

Central High School Science Lab Initiative

Springfield, MA

Greenhouse Shop Drawings



Architect:
DiNisco Design Patnership
99 Chauncy St., Ste. 901
Boston, MA 02111

Construction Manager:
The Morganti/Aquadro &
Cerruti Central HS JV
100 Mill Plain Rd.
Danbury, CT 06811

Bid Package #TC-05 Contractor:
Chandler Architectural Products
255 Interstate Drive
West Springfield, MA 01089

PRODUCT DATA

ENCLOSURE:

1. Greenhouse manufactured by Wisconsin Solar Design, Inc., Middleton, WI.
2. 2-coat fluoropolymer aluminum framework and flashings. Color to be selected from manufacturer's standard catalogue. Color samples submitted under separate cover.
3. Glass roof, $\frac{1}{4}$ " clear tempered over $\frac{3}{8}$ " clear laminated, walls, $\frac{1}{4}$ " clear tempered over same. All glass insulated low-E #2, argon filled air space.
4. Continuous motorized ridge vent system, 2'-0" x 37'-0" with insect screens, thermostat and wall switch. Power wiring to components by Electrical Contractor.
5. Motorized wall vent system at base of south wall, 2'-0" x 37'-0" with insect screens, thermostat and wall switch. Power wiring to components by Electrical Contractor.
6. Design loadings: Ground snow load = 25 psf, Roof dead load = 16.05 psf, Deflection limit = $L/175$, $V = 100$ mph basic wind velocity, 250# concentrated load. Structural calculations submitted separately. I, Fred Holtzman, PE, certify that the glass loading has been investigated and is adequate in accordance with ASTM E1300, the glass strength standard.
7. Warranty: defects in materials and workmanship, leaks for 1 year. Insulating glass units, 5 years, against seal failure, delamination, discoloration and defects in manufacture from the date of acceptance.
8. Thermal, water, and air test results available upon request and viewable at www.wisconsinsolardesign.com/skylightspecs.

EQUIPMENT:

Motorized interior Roman folding Phifertex shading system running from base of roof vent to top of motorized windows and covering the entire length of greenhouse. 110V electrical hook-up to toggle wall switch provided by others. Fabric samples submitted separately.

MOTOR SCHEDULE (120V wiring by others)

Mark	Qty	Equipment	Model	V-P-Hz	HP	Amps
M1	2	Roof/wall vent	Dayton 4Z847	120-1-60	$\frac{1}{10}$	1.4
M2	2	Shading	Somfy LT 50/510S2 Altus	120-1-60		1.3

NOTES:

- a. Bid Package #TC-05 Contractor: Please provide field dimensions in boxes and initial on pages 2 and 5 of 9. These guaranteed field dimensions are the basis for greenhouse fabrication.
- b. Construction Manager: WSD requires curfew-free site access from 7:00 AM to 7:00 PM for greenhouse installation, including Saturday.
- c. Construction Manager: Please note that site visits and meetings prior to and after installation are excluded. WSD will participate via telephone and will be available for consultation via phone and email.
- d. Construction Manager: Please coordinate blocking locations at greenhouse ridge and sill details. Secure blocking to masonry to support greenhouse structure.

DRAWING INDEX:

- Pg 1 - Product Data, Key Plan,
- Pg 2 - Floor Plan
- Pg 3 - South Elevation & Shading Plan
- Pg 4 - East/West Elevations
- Pg 5 - Cross-Section
- Pg 6 - Details
- Pg 7 - Details
- Pg 8 - Details
- Pg 9 - Details/Vent Wiring Diagram

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

APPROVAL:

DiNisco Design Patnership: _____ The Morganti/Aquadro & Cerruti Central HS JV: _____

name: _____ name: _____

title: _____ title: _____

date: _____ date: _____

Drawings prepared by: Jorge Medina, Wisconsin Solar Design Inc

Manufacturer/Installer:

WISCONSIN SOLAR DESIGN

6349 Briarcliff Ln., Middleton, WI 53562

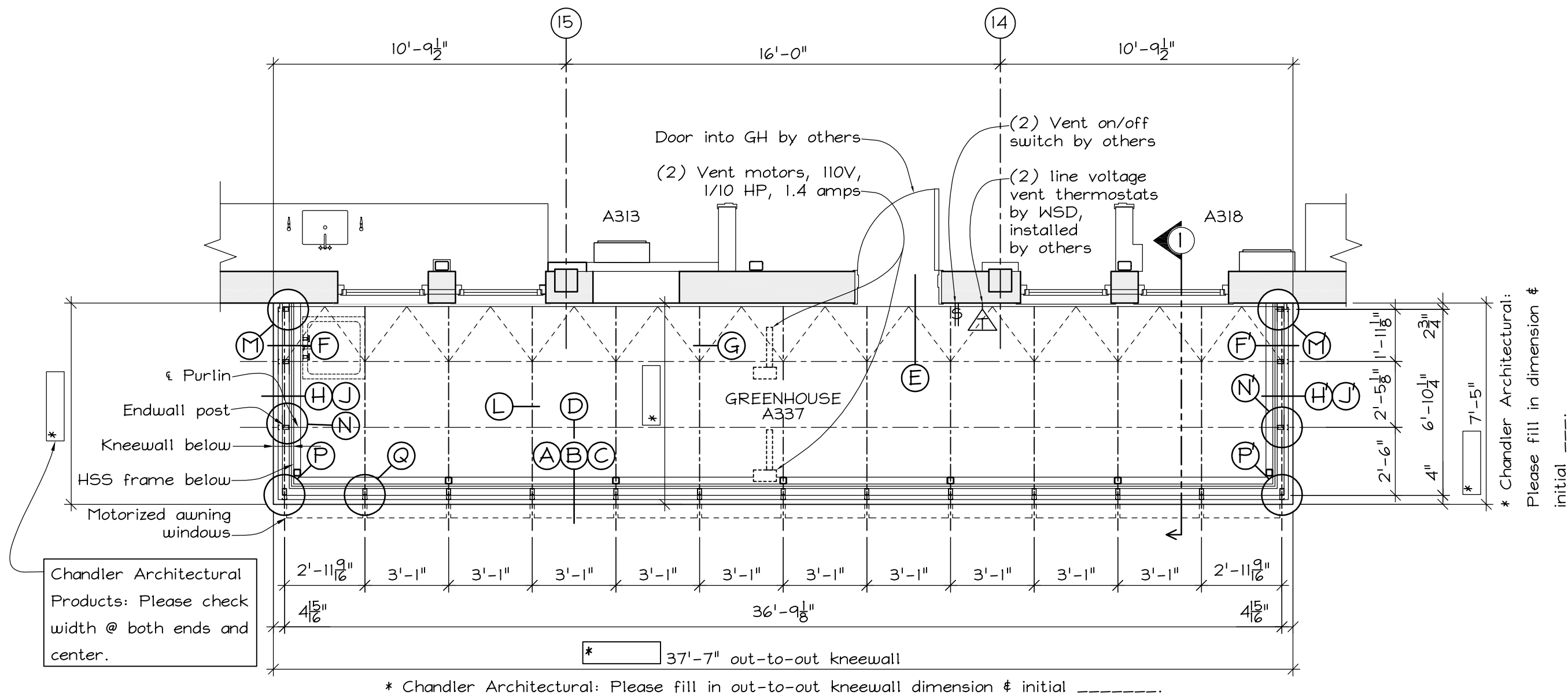
Job site address:

Springfield Central High School
1840 Roosevelt Ave,
Springfield, MA 01109

Architect:

DiNisco Design Patnership
99 Chauncy St., Ste. 901
Boston, MA 02111

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Issued:
2/7/14

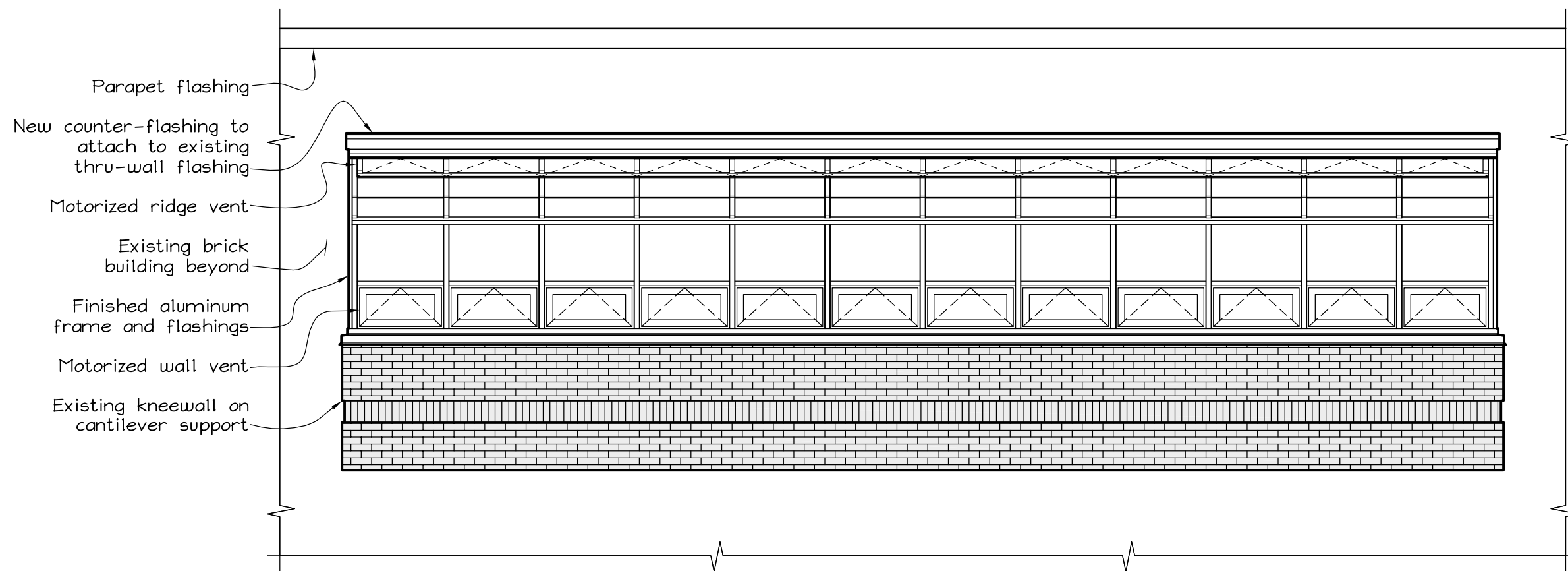



Greenhouse Plan
 Scale: $\frac{1}{4}" = 1'-0"$
 NORTH

Manufacturer/Installer:
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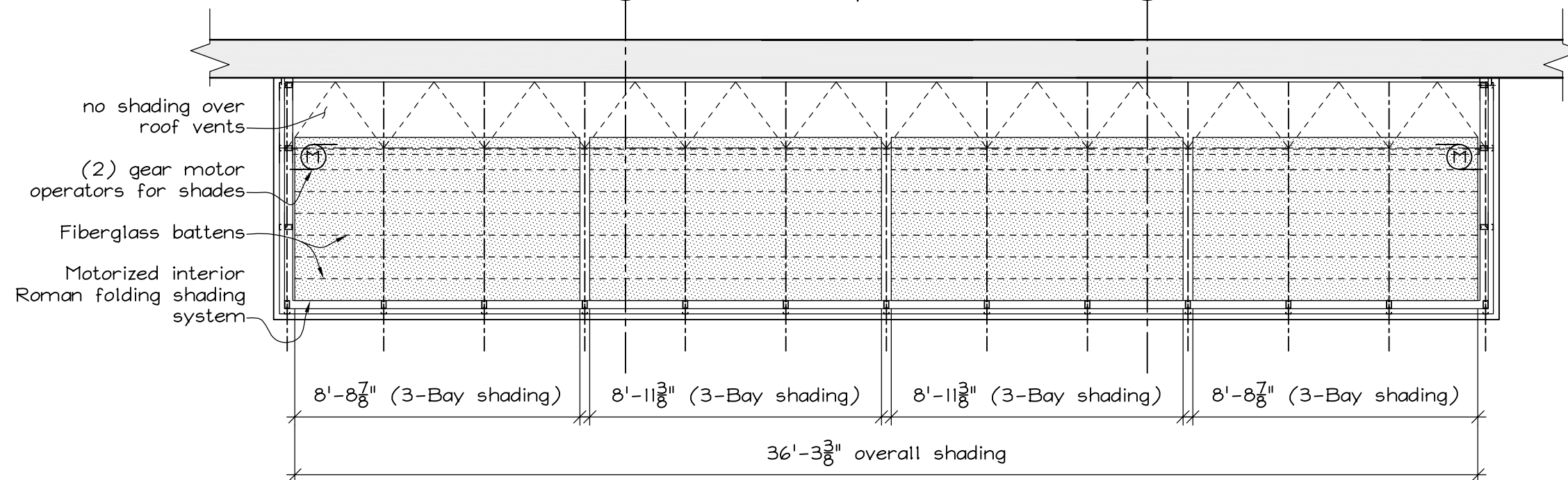
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South Elevation

Scale: $\frac{1}{4}" = 1'-0"$



NORTH

Shading Plan

Scale: $\frac{1}{4}" = 1'-0"$

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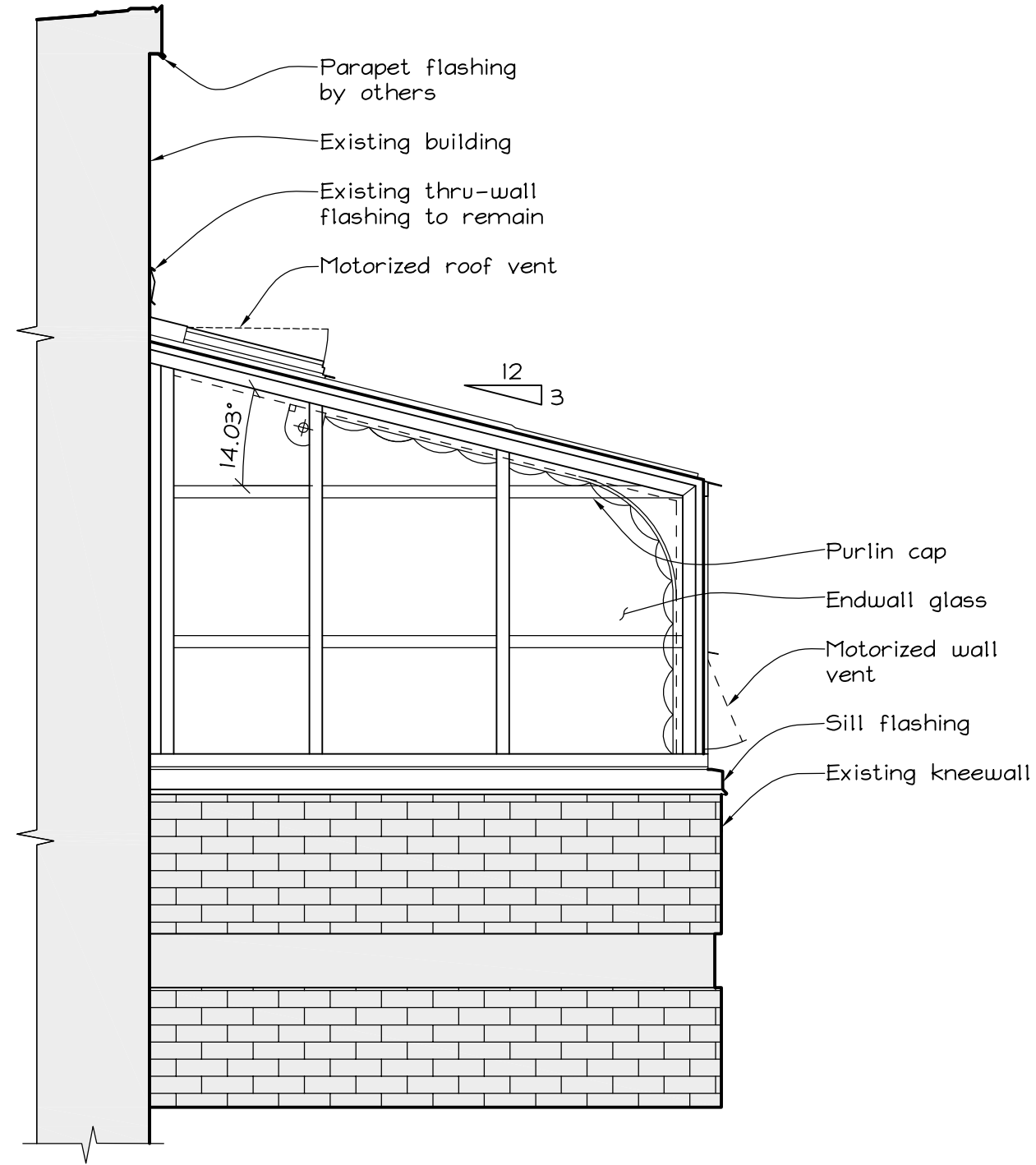
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East Elevation
West Elevation opp. hd.
Scale: $\frac{1}{2}$ " = 1'-0"

Manufacturer/Installer:

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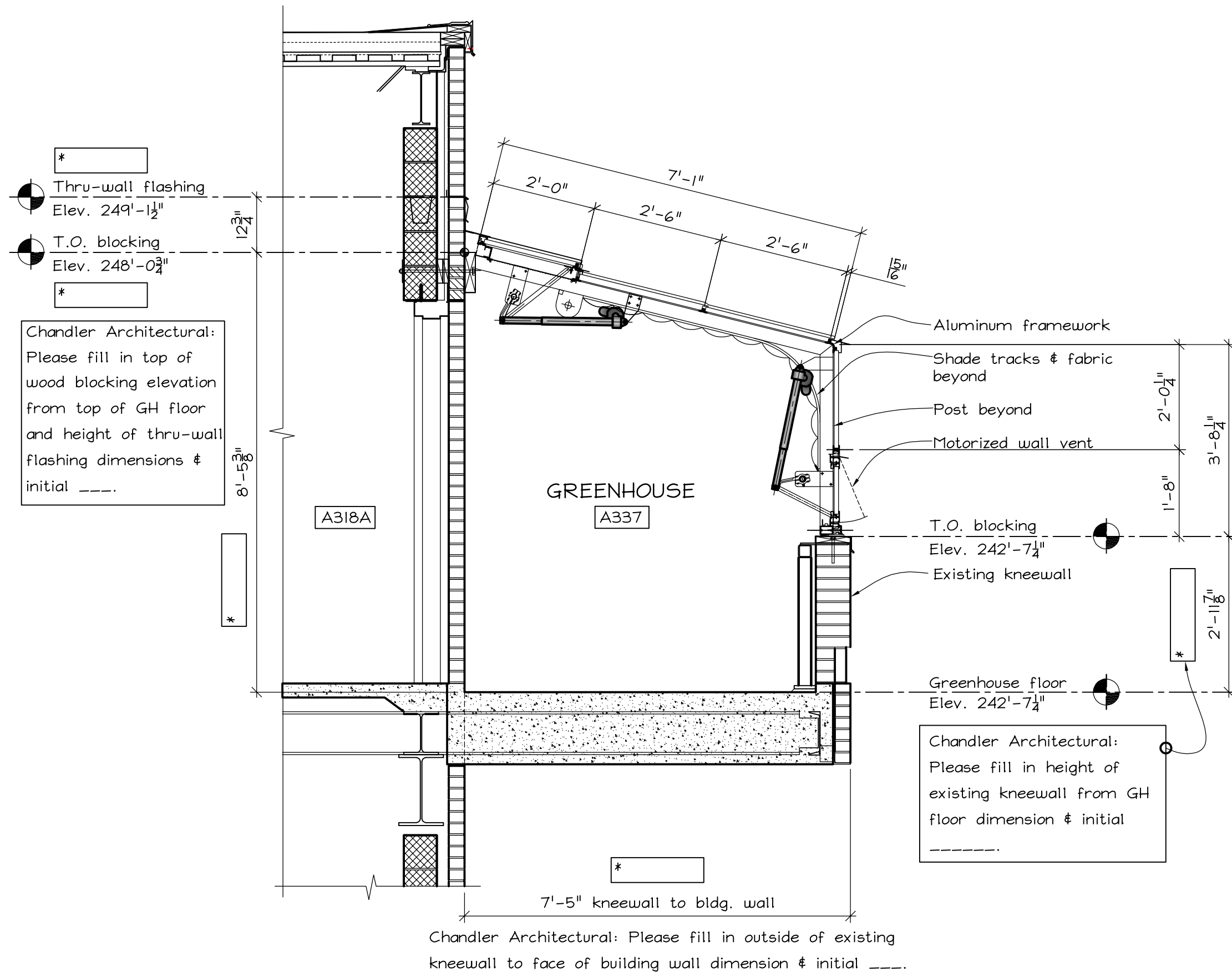
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① Cross-Section
Scale: $\frac{1}{2}$ " = 1'-0"

Manufacturer/Installer:

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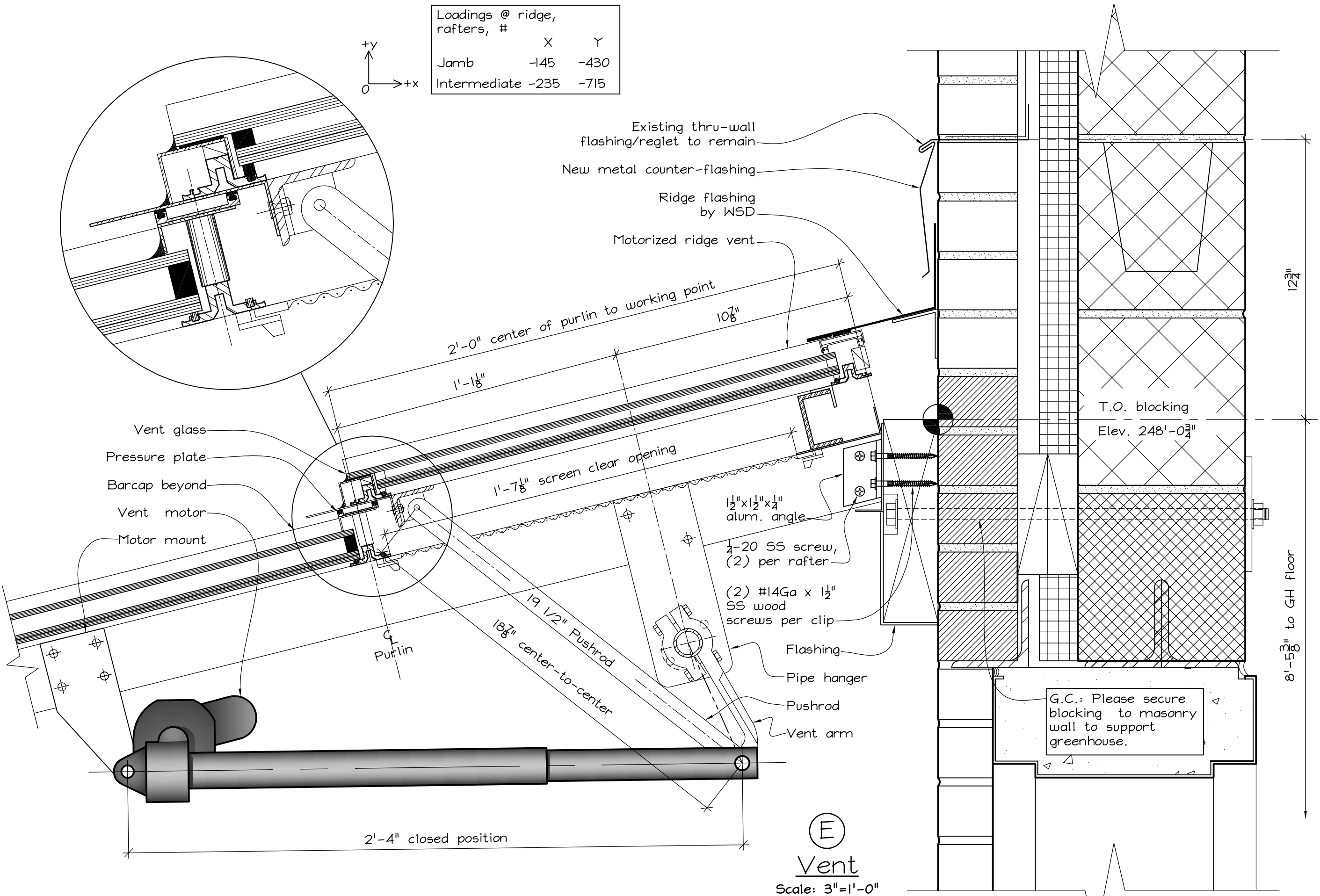
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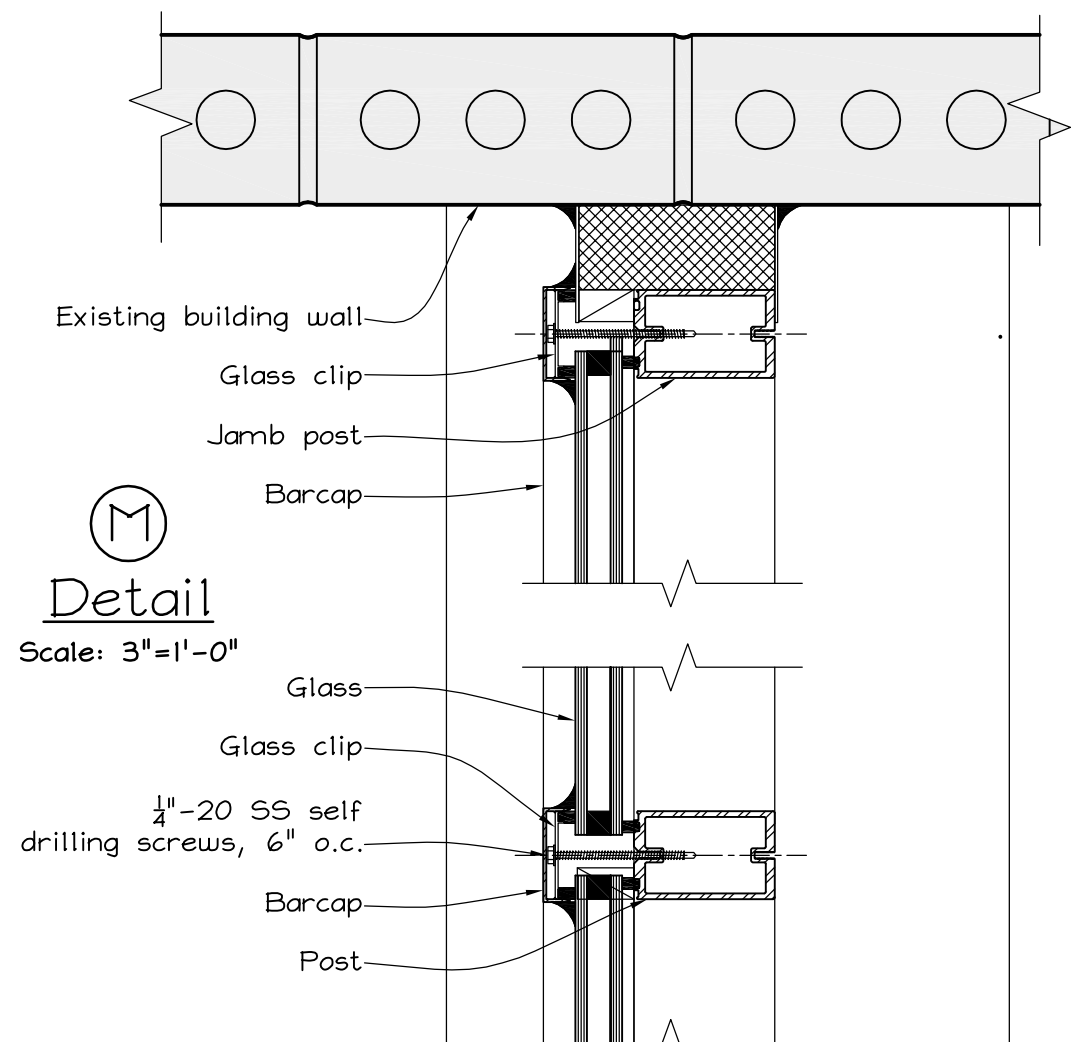


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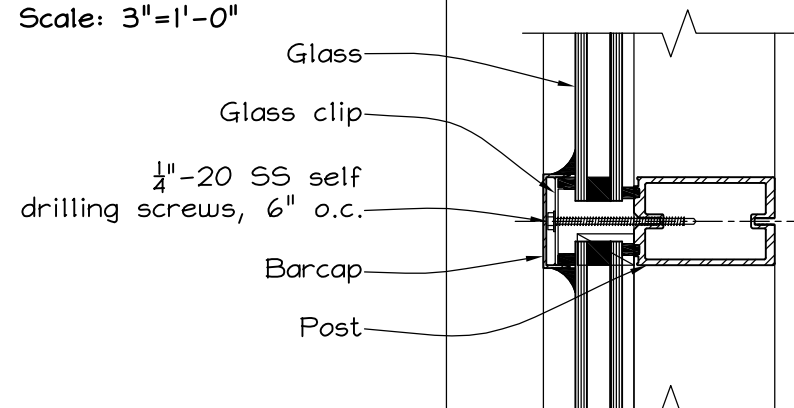
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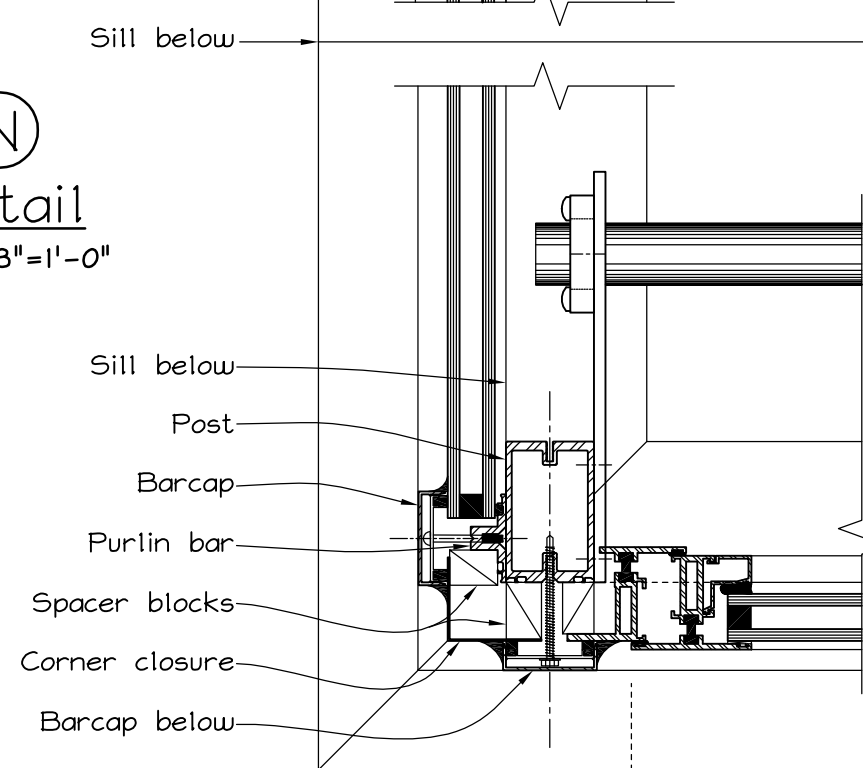
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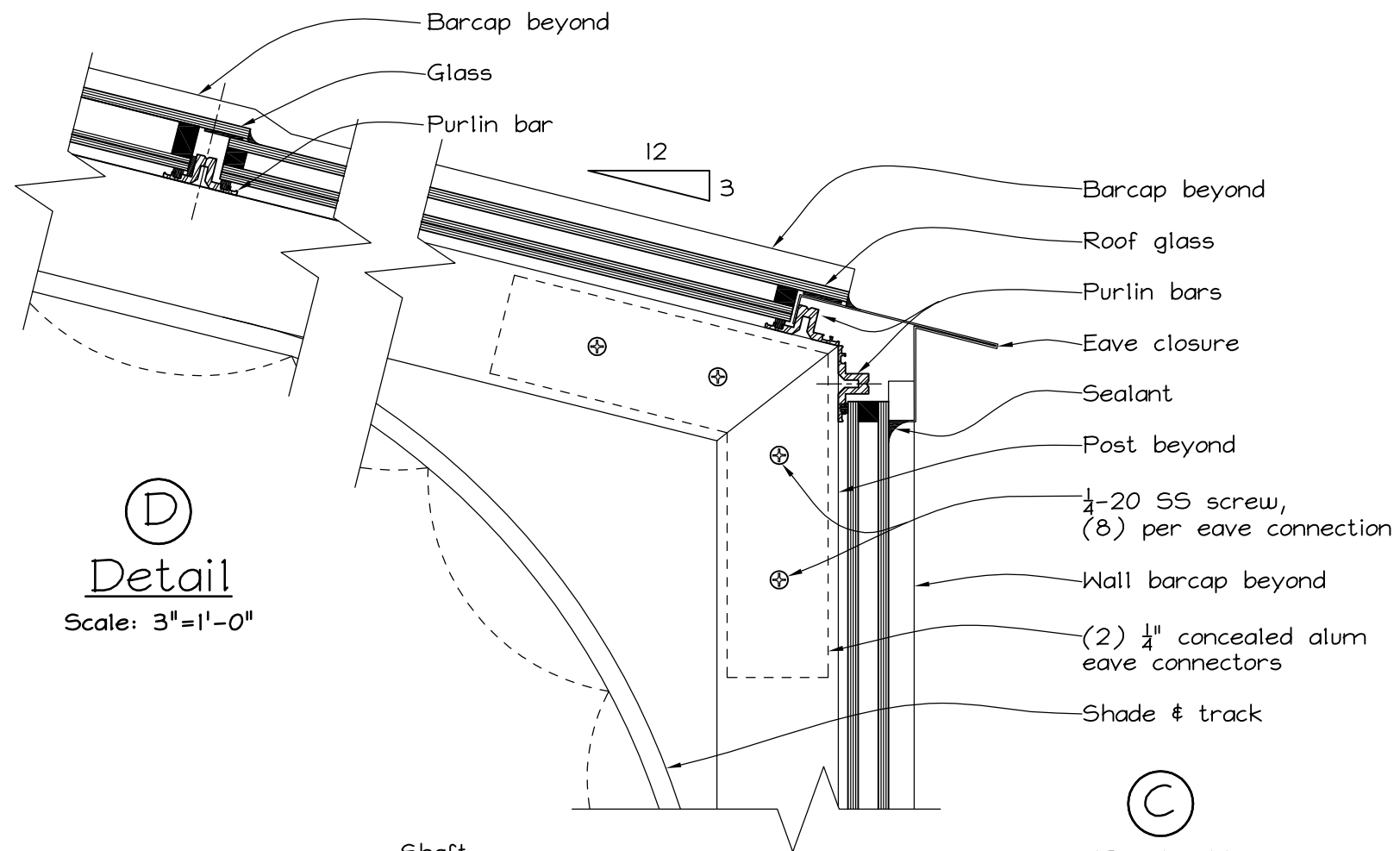
M
Detail
Scale: 3"=1'-0"



N
Detail
Scale: 3"=1'-0"

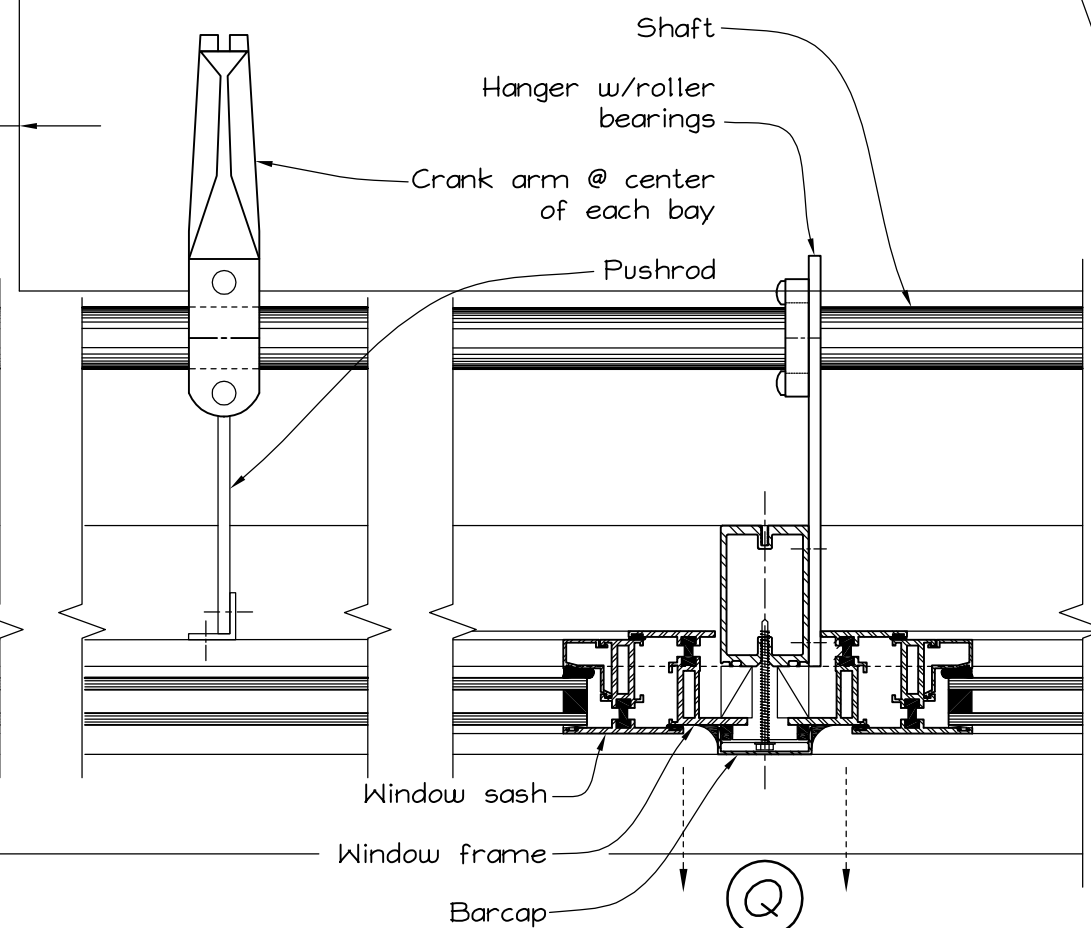


P
Detail
Scale: 3"=1'-0"



D
Detail
Scale: 3"=1'-0"

C
Detail
Scale: 3"=1'-0"



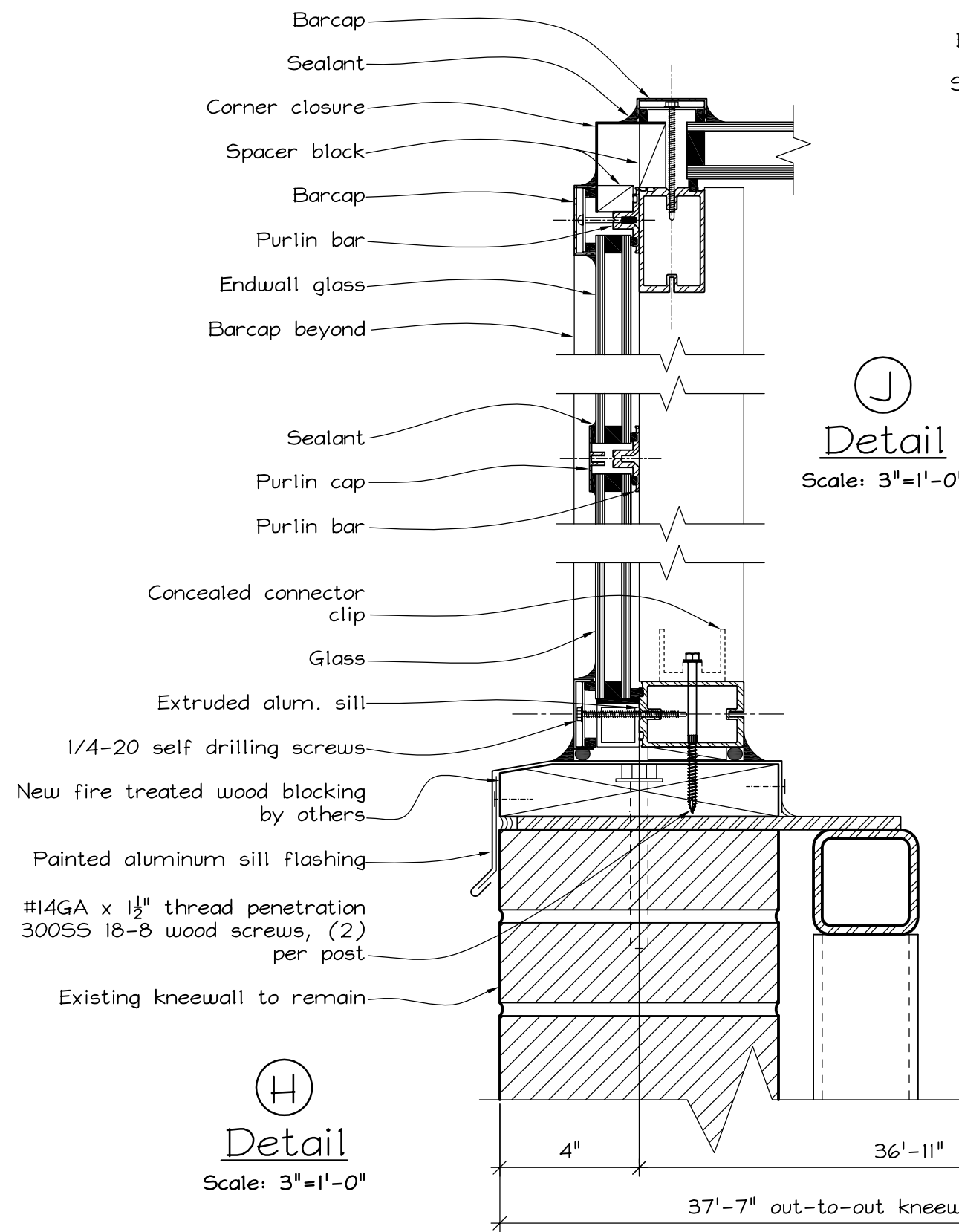
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Detail
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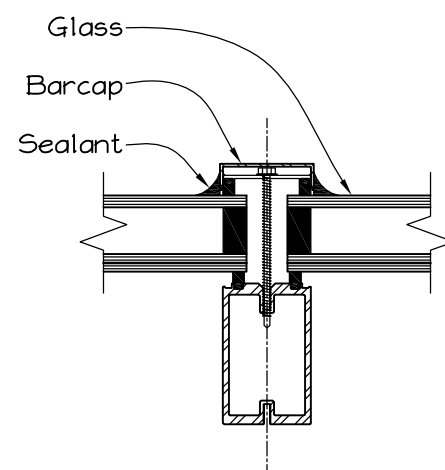
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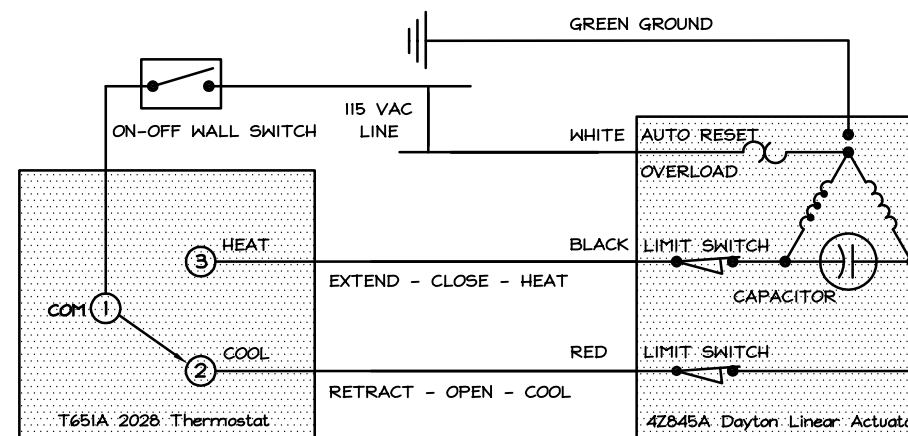
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(H)
Detail
Scale: 3"=1'-0"

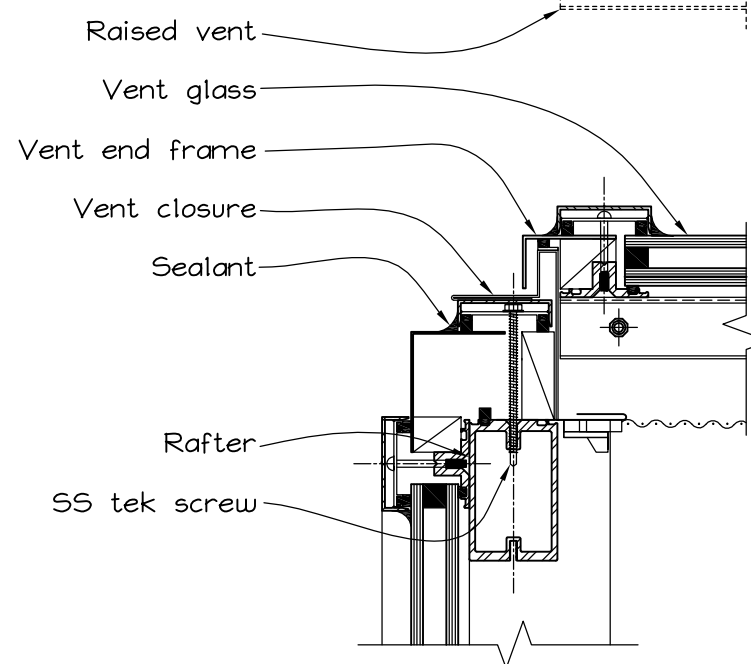


(L)
Detail
Scale: 3"=1'-0"

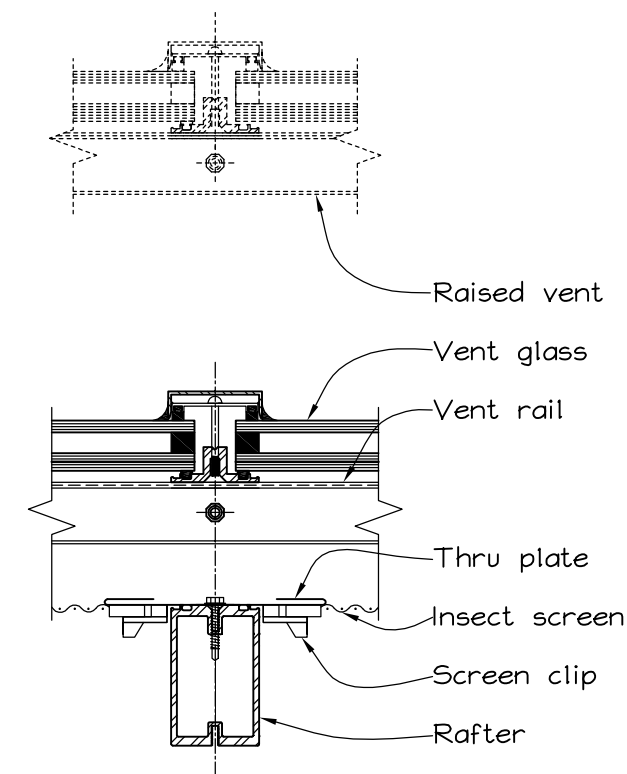


110 V component wiring by others

(R) Ridge Vent Wiring Diagram
N.T.S.



(F)
Detail
Scale: 3"=1'-0"



(G)
Detail
Scale: 3"=1'-0"

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