
SHOP DRAWING TRANSMITTAL

The Park Danforth

Portland ME

Project No.: 13-059-00

Division: 08 43 13

Transmit To:

Mark Donovan
PC Construction
131 Presumpscot Street
Portland ME 04103

Submission No.: 189

Version: A

CM Reference No.: 08 43 13-004

Copies:

Ron Norton	Construction Management Consultir
Andrew Pires	PC Construction
Kemp Carey	PC Construction

Submittal No.	Qty.	Description
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189 - 1	1	Aluminum Storefront and Curtainwall: Calculations
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Comments:

Note: Refer to attached submittals for review comments and requirements.



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Project No. 14776
The Park Danforth Expansion & Renovations
 789 Stevens Ave
 Portland, ME 04103

CONSTRUCTION

Submittal 08 43 13-004
Review Cycle 1

Title **Aluminum Storefront and Curtainwall - Calculations**
 Type **Calculations**
 Sent Date **28-Apr-2016** Spec Section **08 43 13**
 Due Date **12-May-2016** Spec Sub-Section

Sent To For Review

Scott Timmons
 Lavallee Brensinger Architects

Responsible Subcontractor / Vendor

Neil Armitage
 Portland Glass

Item Being Submitted

Aluminum Storefront and Curtainwall - Calculations

Contractor's Review Stamp

I hereby certify that I have examined the enclosed submittal(s) and have determined and verified all field measurements, construction criteria, materials, catalog numbers, and similar data, coordinated the submittal(s) with other submissions and the work of other trades and contractors and, to the best of my knowledge and belief, the enclosed submittal(s) is/are in full compliance with the Contract requirements, except as noted above.

Signature  Date **04/28/2016**

Name
Andrew Pires
PC Construction Company

Architect's Review Stamp

- Reviewed for Performance Criteria Only
- Reviewed Furnish as Corrected
- Rejected Revise and Resubmit
- Submit Specific Item

This review is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with the requirements of the plans and specifications. Approval of a specific item shall not include approval of an assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of his or her Work with that of all other trades; and for performing all work in a safe and satisfactory manner.

Becker Structural Engineers, Inc
 Date: 05/11/2016 By: dsb

This approval does not release subcontractor / vendor from the contractual responsibilities

ARCHITECTURAL DOORS & WINDOWS

* THE PARK DANFORTH PROJECT

* PORTLAND, MAINE

* STRUCTURAL CALCULATIONS FOR
CURTAINWALL AND STOREFRONT FRAMING

BY: PETER M. SALCONE, PROFESSIONAL ENGINEER
ME P.E. #8628



APRIL 22, 2016

THIS COVERSHEET IS APPLICABLE TO THE FOLLOWING
CALCULATION SHEETS 1 THRU 84 OF 84

JOB: THE PARK DANFORTH
PORTLAND, MAINE

FOR: ARCHITECTURAL DOORS & WINDOWS

SUBJECT: STRUCTURAL CALCULATIONS FOR
CURTAINWALL AND STOREFRONT FRAMING

DATE: 4/22/16

BY: SALCONE ENGINEERING ASSOCIATES, INC.
509 CLARKS ROW - NORTH FARM
BRISTOL, RHODE ISLAND 02809 (401) 254-1199

GENERAL NOTES AND REFERENCES

- * ALUMINUM ALLOY AND TEMPER TO BE 6063-T6
- * MISC. & REINFORCING STEEL TO BE A36
- * FASTENERS USED SHALL MEET THE MINIMUM SPECS OF OF SAE J429 GRADE 2 (U.O.N.)
- * WELDING SHALL FOLLOW AWS SPECS - (E70XX ELECTRODES)
- * ALUMINUM DESIGN MANUAL - SPECS FOR ALUMINUM STRUCTURES
- * A.I.S.C. STEEL CONSTRUCTION MANUAL
- * PROJECT SPECIFICATIONS SECTION 084413 & 084313

21.7 psf per sheet 2
DESIGN CRITERIA



WIND LOAD: (SEE SHEET 2)

- * 27.1 PSF POSITIVE & NEGATIVE (NON-CORNER ZONES)
- * 26.8 PSF POSITIVE & NEGATIVE (CORNER ZONES)

DEFLECTION:

- * NORMAL - L/175 WITH 3/4" MAX @ SPANS <= 13'- 6"
- L/240 + 1/4" @ SPANS > 13'- 6"
- * PARALLEL - L/360 WITH 1/8" MAX 1/16" @ DOORS

THERMAL: * 180 DEGREES F TEMPERATURE RANGE

Component and Cladding Wind Loads:

Wind Speed = 100.0 mph Exposure Category = B
Mean Roof Height, h = 60.00 ft, (Kh = 0.8540) Building Closure: Enclosed
Roof Slope = 2.0 :12 Importance Category = II, Standard (I = 1.00)
Building Width: 80.0 ft Building Roof Type = Gabled / Hipped
Building Length: 150.0 ft Building Type = Non-Low Rise
Topographic Factor, Kzt = 1.000

qh, Velocity Pressure = 18.58 psf

Table with columns: Effective Wind Area (sq-ft), Wall Loads (psf) [P4,5, S4, S5, P1,2,3, S1], Roof Loads (psf) [S2, S3, C1,2, C3]. Rows range from 10 to 500 sq-ft.

LOADING & CONTRIBUTING AREA

21.7 PSF (TYPICAL) 26.8 PSF (CORNER ZONE)

Where: P4,5 = Wall pressure in interior, corner zones. S2 = Roof Suction in edge zone.
S4 = Wall suction in interior zone. S3 = Roof Suction in corner zone.
S5 = Wall suction in corner zone. C1,2 = Canopy Suction in interior, edge zones.
P1,2,3 = Roof Pressure in interior, edge, corner zones. C3 = Canopy Suction in corner zone.
S1 = Roof Suction in interior zone. a = Edge Width (8.0 feet).

External Coefficients, Cp, for Buildings of all Heights, Main Wind Force Resisting System:
Windward Wall: 0.800 Roof Coefficients Based on Distance from Windward Edge of Roof
Leeward Wall Normal to Ridge: -0.500 Normal to Ridge: (h/L = 0.75)
Leeward Wall Parallel to Ridge: -0.325 Area 0 to h/2 h/2 to h h to 2h >2h
Side Walls: -0.700 <=100 -1.100 -0.800 -0.600 -0.500
Design MWFRS Pressure:
p = (qh or qz) * (G * Cp) - qh(GCpi)
(where G = 0.85, GCpi = 0.18 or -0.18
qh = 15.80)
>=1000 -1.035 -0.800 -0.600 -0.500
Parallel to Ridge: (h/L = 0.40)
0 to h/2 h/2 to h h to 2h >2h
-0.900 -0.900 -0.500 -0.300

BY: A DATE: 4/22/16 SUBJECT: _____ SHEET NO. 3 OF 84
 CLIENT: AD + W PROJECT: THE PARK DANFORTH

I. CONTAINMENT WALL + STOREFRONT FRAMING ANALYSIS

REFERENCE P.E. STAMPED SHOP DRAWINGS

OLDCASTLE RELIABLE WALL CONTAINMENT WALL FRAMING SYSTEM

OLDCASTLE FG-3000 STOREFRONT FRAMING SYSTEM

(SEE SHEETS 72 THRU 80 FOR STRUCTURAL PROPERTIES)

A. MULLION ANALYSIS

1. DETERMINE IXX PROVIDED (DEFLECTION) MOM MAX RESISTED + SHEAR MAX RESISTED (STRESS)

FOR MULLIONS USED

(CONTAINMENT WALL)

a). W141-400 MULLION

(DEFLECTION)

IXX PROVIDED = 4,801 in⁴

(STRESS)

M MAX = F_b (S_{xx}) / (M.D.F.)

M DISTRIBUTION FACTOR WHEN STAD DEFINT USED

6063-T6 (SPEL 19) ⇒ F_b ≈ 15 KSI

∴ M MAX = 15 KSI (1.806 in³) = 27.1 in-k

SHEAR MAX = F_v (A_s)

6063-T6 ⇒ F_v ≈ 8.5 KSI

CONSERV. DEPTH

∴ S MAX = 8.5 KSI (.099") (3") (1) = 2.397 #

CONSERV. SAY ONLY (1) SIDE RESISTS TO QUALIFY JOINTS ALSO

CONSERV. DESIGN. DON'T WANT CASES TO QUALIFY ALL CONTAINMENT WALL MULLION JOINTS / ALL EQUATIONS

BY: h DATE: 8/22/16 SUBJECT: _____ SHEET NO. 4 OF 89

CLIENT: AD&W PROJECT: The PARK DAINFORTH
(I. A. I CONT 1)

b) WW-404 MULLION

IXX PROVIDED = 4.329 in⁴

M_{MAX} = 15(2.124) = 31.9 in-k

c) WW400 OR WW404 w/ C3X4.1 STEEL CHANNEL REINF.

$I_{XX} = 1.66 \text{ in}^4 (2.9) = 4.814 \text{ in}^4$ (ALUM EQUIV)
 $S_{XX} = 1.10 \text{ in}^3$ — (ESTEE / E_{ALUM}) — WW-404 WORST CASE

$\therefore I_{XX \text{ PROVIDED}} = (4.329 + 4.814) = 9.143 \text{ in}^4$

M_{MAX}

MDF MULL = (4.329 / 9.143) = .473
 MDF STEEL = (4.814 / 9.143) = .527

$\therefore M_{MAX \text{ MULL}} = 15(1.806) / .473 = 57.3 \text{ in-k}$

$M_{MAX \text{ STEEL}} = 21.6 \text{ ksi} (1.10 \text{ in}^3) / .527 = 45.1 \text{ in-k} \leftarrow \text{GOVERN}$

d) WW1200 MULLION

IXX PROVIDED = 10.172 in⁴

M_{MAX} = 15(3.01) = 45 in-k

BY: N DATE: 4/22/16 SUBJECT: _____ SHEET NO. 5 OF 84

CLIENT: AD+W PROJECT: THE PARK DANFORTH

(I.A. I CONT)
(STOREFRONT)

2) FG-3495 MILLION

$$\begin{aligned} \underline{I_{XX} \text{ PROVIDED}} &= \underline{2.828 \text{ in}^4} \\ \underline{M_{MAX}} &= 15(1.257) = \underline{18.9 \text{ in-k}} \\ \underline{S_{MAX}} &= 8.5 \text{ ksi} (.08") (3") (1) = \underline{2.040"} \end{aligned}$$

CONSERVATIVELY
(1) SIDE RESISTS
↳ CONSTANT DEPTH

USING WOOD STIFFNESS
CONDITIONS TO QUALIFY
CHECK FOR ALL STOREFRONT
MULTI-LEVEL ELEVATIONS

1) FG-3180 / FG-3181 SPIRAL MILLION

CONSERVATIVELY USING PROPERTIES FROM FG-3495 ABOVE:

$$\begin{aligned} \underline{I_{XX} \text{ PROVIDED}} &= \underline{2.828 \text{ in}^4} \\ \underline{M_{MAX}} &= \underline{18.9 \text{ in-k}} \end{aligned}$$

3) FG-3156 MILLION

$$\begin{aligned} \underline{I_{XX} \text{ PROVIDED}} &= \underline{2.997 \text{ in}^4} \\ \underline{M_{MAX}} &= 15(1.309) = \underline{19.6 \text{ in-k}} \end{aligned}$$

4) FG-3100

$$\begin{aligned} \underline{I_{XX} \text{ PROVIDED}} &= \underline{2.997 \text{ in}^4} \\ \underline{M_{MAX}} &= 15(1.322) = \underline{19.8 \text{ in-k}} \end{aligned}$$

BY: n DATE: 4/22/16 SUBJECT: _____ SHEET NO. 6 OF 87

CLIENT: AD+W PROJECT: THE PANK DAUFORTH

(I.A CONT)

2. CHECK COMPRESSIVE STRESS ON MULLIONS @ CONTAINMENT WALL ELEVATIONS

$f_c = P/A$

$P = DL + MISC$

↑ constant

Per LW1A + LW1B = $58.4' (3.2') (15 \text{ psf}) = 2,803 \#$
Worst Case + Per LW2 + LW3 = $53.3' (3.8') (15 \text{ psf}) = 3,062 \#$
Per LW4 = $41.5' (4.6') (15 \text{ psf}) = 2,863 \#$

$\therefore f_c = 3,062 \text{ k} / 1.696 \text{ in}^2 = 1.81 \text{ ksi}$

DETERMINE f_c :

$K_L / r_x = (11.137") / 1.597 = 85.8$ ← WW-409 WORST CASE
 $K_L / r_y = (11.137") / .919 = 122.96$ ← CONTAIN > 78
← LWD-400 WORST CASE

$\therefore \bar{f}_c = 51,000 / (122.96)^2 = 3.37 \text{ ksi} > f_c = 1.81 \text{ O.K.}$

CHECK INTERACTION

COMPRESSION

← IS ENOUGH WIND LOAD
WORST CASE ACTUAL

$\left(\frac{1.81}{3.37} \right) + \left(\frac{14.5 \text{ ft-k}}{31.9 \text{ ft-k}} \right) = .992 < 1.0 \text{ O.K.}$

← M_{max}

CONST. APPLY WORST CASE DEAD LOAD @ WORST CASE MOMENT (WIND LOAD) + NEGLECT COMBINATIONAL REDUCTIONS!

BY: DATE: 4/22/16 SUBJECT: _____ SHEET NO. 7 OF 89

CLIENT: AD + W PROJECT: THE PARK DANFOLTH

(I.A. CONT)

FROM P.E. STAMPED SHOP
DRAWINGS

3a CHANNEL MULLIONS USED

Printout sheets II thru 64

(CONTINUATION)
(Printout sheets II thru 32)

← TYPICAL

a) ELEV CW1A, CW1B, CW2, CW3 + CW4 JAMBS
ELEV CW5, CW6 + CW7 JAMBS

WW-400 MULLION O.K.

b) ELEV CW1A + CW1B TOP SPAN JAMBS

WW-400 w/ C3X9.1 STEEL CHANNEL O.K.

← TYPICAL

c) ELEV CW1A, CW1B, CW2, CW3 + CW4 MULLS
ELEV CW5, CW6 + CW7 MULLS

WW-404 MULLION O.K.

d) ELEV CW1A + CW1B TOP SPAN MULLS

WW-404 w/ C3X9.1 STEEL CHANNEL O.K.

e) ELEV CW4 CONDOL MULL

WW-240 MULLION O.K.

BY: ✓ DATE: 9/22/16 SUBJECT: _____ SHEET NO. 8 OF 89

CLIENT: AD+W PROJECT: THE PARK DAYFORTH

E. A. 3 CONT 1

(STOREFRONT)

(PRINTOUT sheets) 33THRU (4)

f). ELEV SF3B + SF3A mulls/jambes, SF3A, SF4A + SF4B Jambes
ELEV SF1A THRU SF24 + SF5 THRU SF 8 mulls/jambes
ELEV SF9A, SF9B, SF15, SF16A, SF16B Jambes + SF17 mulls/jambes
Flr-3495 million O.K.!

g). ELEV SF4L, SF4D, SF4A, SF4B, + SF15 Splayed mulls
ELEV SF16A, SF19, SF16B + SF10 Splayed mulls
Flr-3180/ Flr-3181 million O.K.!

h). ELEV SF5^{-TAIL ?}, SF15, SF9A, SF9B, 199D + 151E DOOR Jambes
ELEV SF20, SF17, SF18, SF11 + SF-12 DOOR Jambes
Flr-3156 million O.K.!

i). ELEV SF19 + SF20 Jambes
ELEV SF18 mulls/jambes + SF10 Jambes
Flr-3100 million O.K.!

BY: DATE: 9/22/14 SUBJECT: SHEET NO. 9 OF 24

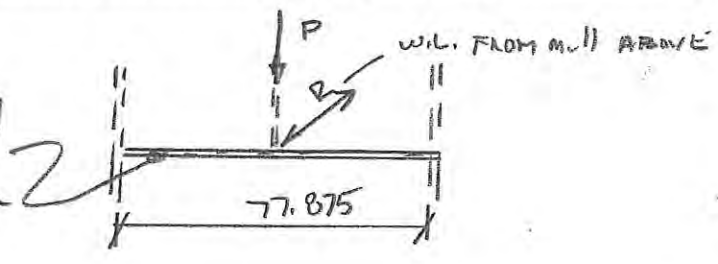
CLIENT: AD&W PROJECT: THE PARK DANFORTH

(ILGWT)

B. HORIZONTAL ANALYSIS

1. ELEV CW'S HORIZONTAL ABOVE DOORS

LOW-400 HORIZ W/
2" x 3" STEEL BARR
REINFT.



$P = DL + MISC FROM MULL ABOVE$

$$\underline{P = 11.2'(3.5')(100PSF)}$$
$$\underline{P = 394"}$$

$$\underline{R = 170\#}$$

2" x 3" STEEL BARR

$$I_{yy} = 2.0 \text{ in}^4 (2.9) = 5.80 \text{ in}^4 \text{ (ALUM EQUIV)}$$
$$S_{yy} = 2.0 \text{ in}^3$$

a) WIND LOAD

$$\Delta_{max} = L/175$$
$$= 77.875/175 = 0.445"$$

$$I_{xx} \text{ REQD} = \frac{170(77.875)^3}{40(10 \times 10^6)(0.445)} = 0.38 \text{ in}^4 < \overset{\text{CONSERVATIVE}}{\text{MULT ALONG WELDED STEEL}} I_{xx} = 4.00 \text{ in}^4 \text{ PROVISION}$$

$$f_{bx} = m_x / s_x = \frac{170(77.875)}{4} / 1100 \text{ in}^3 = 1.0 \text{ ksi} < F_{bx} \geq 15 \text{ ksi O.K.}$$

b) DEAD LOAD

$$\Delta_{max} = 1/16"$$

LIMIT Δ_y TO $1/16"$
ABOVE DOOR

$$f_{by} = \frac{394(77.875)^3}{40(10 \times 10^6)(1/16)} = 4.202 \text{ in}^4$$

$$I_{yy} \text{ PROVIDED} = (1.3 \text{ mull} + 5.80) = 7.14 \text{ in}^4 > 4.202 \text{ O.K.}$$

$$f_{by} = m_y / s_y = \frac{394(77.875)}{4} / 1.072 \text{ in}^3 = 7.2 \text{ ksi} < F_{by} \geq 15 \text{ O.K.}$$

\hookrightarrow CONSERV.
NO MULL ALONG WELDED STEEL

SHEAR + ATTRACTION O.K. DEL INSPECTION!

BY: DATE: 9/22/16 SUBJECT: _____ SHEET NO. 10 OF 89

CLIENT: AD+W PROJECT: THE PARK DANFORTH

(I. B CONT)

2. CONTAINMENT WALL TYPICAL HORIZS + HORIZS ABOVE DOOLS

LOW-400 HORIZONTALS

FROM PRINTOUT SHEETS
65 & 66

a) WIND LOAD:

$I_{XX} REQ'D = .110 < 4.801 \text{ O.K.}$
 $f_{bx} = m_x / s_x = 1.2 \text{ in}^2 / 1.006 \text{ in}^2 = 0.7 \text{ ksi} < F_{bx} \approx 15 \text{ O.K.}$

b) DEAD LOAD:

$I_{YY} REQ'D = .376 < 1.390 \text{ O.K.}$
 $f_{by} = m_y / s_y = 1.64 \text{ in}^2 / 1.072 \text{ in}^2 = 1.5 \text{ ksi} < F_{by} \approx 15 \text{ O.K.}$

SHEAR + INTERACTION O.K. PER INSPECTIONS

3. STONEFRONT TYPICAL HORIZONTALS + HORIZONTALS ABOVE DOOLS

FROM PRINTOUT SHEETS 67 THRU 71

FB-3197 HORIZ } USING WORST CASE PROPERTIES
FB-3142 HORIZ }
FB-3163 HORIZ ABOVE DOOLS

a) WIND LOAD:

$I_{XX} REQ'D = .459 < 2.545 \text{ O.K.}$
 $f_{bx} = m_x / s_x = 3.16 \text{ in}^2 / 1.977 \text{ in}^2 = 3.7 \text{ ksi} < F_{bx} \approx 15 \text{ O.K.}$

b) DEADLOAD:

$I_{YY} REQ'D = .444 < .530 \text{ O.K.}$
 $f_{by} = m_y / s_y = .467 \text{ in}^2 / .293 \text{ in}^2 = 1.6 \text{ ksi} < F_{by} \approx 15 \text{ O.K.}$

SHEAR + INTERACTION O.K. PER INSPECTIONS!

JOB TITLE : BOTTOM SPAN ELEV CW1B & CW1A *mull*

WIND LOAD (PSF) : 20.6
MULLION SPACING (FT / FT-IN) : 3-1.25 (3.1)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN) : 11-4.5 (11.38)
RIGHT SPAN LENGTH (FT / FT-IN) : 9-4.25 (9.35)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 286. LBS
CENTER REACTION : 835. LBS
RIGHT REACTION : 205. LBS

LEFT MOMENT : 0.0 KIP - IN
CENTER MOMENT : -10.6 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAX. MOMENT LEFT SPAN : 7.7 KIP - IN
LOC. OF MAX MOM. : 4.55 FT FROM LEFT

MAX. MOMENT RIGHT SPAN : 3.9 KIP - IN
LOC. OF MAX MOM. : 6.17 FT FROM LEFT

DISP. CRITERIA LEFT SPAN : 0.75 IN
LOC. OF MAX DISP. : 5.01 FT FROM LEFT

REQUIRED MOI : 1.599 IN**4

DISP. CRITERIA RIGHT SPAN : 0.64 IN
LOC. OF MAX DISP. : 5.80 FT FROM LEFT

REQUIRED MOI : 0.472 IN**4

JOB TITLE : MIDDLE SPAN ELEV CW1^B& CW1A *m Jls*

WIND LOAD (PSF) : 20.6
MULLION SPACING (FT / FT-IN) : 3-1.25 (3.1)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN) : 10-6 (10.5)
RIGHT SPAN LENGTH (FT / FT-IN) : 9-1.25 (9.1)
LEFT OVERHANG SPAN (FT / FT-IN) : 1-4.75 (1.4)
RIGHT OVERHANG SPAN (FT / FT-IN) : 0-0 (0)
LEFT OVERHANG FORCE (LBS) : 205
RIGHT OVERHANG FORCE (LBS) : 0.0

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 598. LBS
CENTER REACTION : 734. LBS
RIGHT REACTION : 216. LBS

LEFT MOMENT : -4.2 KIP - IN
CENTER MOMENT : -8.2 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAX. MOMENT LEFT SPAN : 4.5 KIP - IN
LOC. OF MAX MOM. : 4.83 FT FROM LEFT

MAX. MOMENT RIGHT SPAN : 4.4 KIP - IN
LOC. OF MAX MOM. : 5.64 FT FROM LEFT

DISP. CRITERIA LEFT SPAN : 0.72 IN
LOC. OF MAX DISP. : 4.83 FT FROM LEFT

REQUIRED MOI : 0.725 IN**4

DISP. CRITERIA RIGHT SPAN : 0.62 IN
LOC. OF MAX DISP. : 5.28 FT FROM LEFT

REQUIRED MOI : 0.627 IN**4

JOB TITLE : MIDDLE SPAN ELEV CW1B& CW1A *JAMBES*

WIND LOAD (PSF) : 21.7
MULLION SPACING (FT / FT-IN) : 1-7.875 (1.66)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN) : 10-6 (10.5)
RIGHT SPAN LENGTH (FT / FT-IN) : 9-1.25 (9.1)
LEFT OVERHANG SPAN (FT / FT-IN) : 1-4.75 (1.4)
RIGHT OVERHANG SPAN (FT / FT-IN) : 0-0 (0)
LEFT OVERHANG FORCE (LBS) : 115
RIGHT OVERHANG FORCE (LBS) : 0.0

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 336. LBS
CENTER REACTION : 413. LBS
RIGHT REACTION : 121. LBS

LEFT MOMENT : -2.3 KIP - IN
CENTER MOMENT : -4.6 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAX. MOMENT LEFT SPAN : 2.5 KIP - IN
LOC. OF MAX MOM. : 4.83 FT FROM LEFT

MAX. MOMENT RIGHT SPAN : 2.5 KIP - IN
LOC. OF MAX MOM. : 5.64 FT FROM LEFT

DISP. CRITERIA LEFT SPAN : 0.50 IN
LOC. OF MAX DISP. : 4.83 FT FROM LEFT

REQUIRED MOI : 0.587 IN**4

DISP. CRITERIA RIGHT SPAN : 0.50 IN
LOC. OF MAX DISP. : 5.28 FT FROM LEFT

REQUIRED MOI : 0.440 IN**4

JOB TITLE : TOP SPAN ELEV CW1B & CW1A *mls*

WIND LOAD (PSF) : 20.0
MULLION SPACING (FT / FT-IN) : 3-1.25 (3.1)
ALLOWABLE DEFLECTION RATIO L/: 180
MAX ALLOWABLE DEFLECTION (IN) : 1.013

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 15-3.25 (15.27)
LEFT OVERHANG SPAN (FT / FT-IN) : 1-4.75 (1.4)
RIGHT OVERHANG SPAN (FT / FT-IN) : 0-0 (0)
LEFT OVERHANG FORCE (LBS) : 216
RIGHT OVERHANG FORCE (LBS) : 0.0

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 800. LBS
RIGHT REACTION : 450. LBS

LEFT MOMENT : -4.3 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 19.6 KIP - IN
LOC. OF MAX MOM. : 7.94 FT FROM LEFT

DISPLACEMENT CRITERIA : 1.01 IN
LOC. OF MAX DISP. : 7.64 FT FROM LEFT

REQUIRED MOI : 6.599 IN**4

DATE: 1/22 || BY: _____ || SUBJECT: _____ || PAGE: 15 OF 89

JOB TITLE : TOP SPAN ELEV CW1B & CW1A *JMMB*

WIND LOAD (PSF) : 20.9
MULLION SPACING (FT / FT-IN) : 1-7.875 (1.66)
ALLOWABLE DEFLECTION RATIO L/: 180
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 15-3.25 (15.27)
LEFT OVERHANG SPAN (FT / FT-IN) : 1-4.75 (1.4)
RIGHT OVERHANG SPAN (FT / FT-IN) : 0-0 (0)
LEFT OVERHANG FORCE (LBS) : 121
RIGHT OVERHANG FORCE (LBS) : 0.0

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 447. LBS
RIGHT REACTION : 251. LBS

LEFT MOMENT : -2.4 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 10.9 KIP - IN
LOC. OF MAX MOM. : 7.94 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.50 IN
LOC. OF MAX DISP. : 7.64 FT FROM LEFT

REQUIRED MOI : 7.450 IN**4

JOB TITLE : BOTTOM SPAN ELEV CW2 & CW3 *mlls*

WIND LOAD (PSF) : 20.6
MULLION SPACING (FT / FT-IN) : 3-8.75 (3.73)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN) : 11-4.5 (11.38)
RIGHT SPAN LENGTH (FT / FT-IN) : 9-4.5 (9.38)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 344. LBS
CENTER REACTION : 1004. LBS
RIGHT REACTION : 247. LBS

LEFT MOMENT : 0.0 KIP - IN
CENTER MOMENT : -12.7 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAX. MOMENT LEFT SPAN : 9.2 KIP - IN
LOC. OF MAX MOM. : 4.55 FT FROM LEFT

MAX. MOMENT RIGHT SPAN : 4.8 KIP - IN
LOC. OF MAX MOM. : 6.19 FT FROM LEFT

DISP. CRITERIA LEFT SPAN : 0.75 IN
LOC. OF MAX DISP. : 5.01 FT FROM LEFT

REQUIRED MOI : 1.919 IN**4

DISP. CRITERIA I RIGHT SPAN : 0.64 IN
LOC. OF MAX DISP. : 5.81 FT FROM LEFT

REQUIRED MOI : 0.575 IN**4

JOB TITLE : BOTTOM SPAN ELEV CW2 & CW3 JMBS

WIND LOAD (PSF) : 21.7
MULLION SPACING (FT / FT-IN) : 2-0.5 (2.04)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN) : 11-4.5 (11.38)
RIGHT SPAN LENGTH (FT / FT-IN) : 9-4.5 (9.38)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 198. LBS
CENTER REACTION : 579. LBS
RIGHT REACTION : 142. LBS

LEFT MOMENT : 0.0 KIP - IN
CENTER MOMENT : -7.4 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAX. MOMENT LEFT SPAN : 5.3 KIP - IN
LOC. OF MAX MOM. : 4.55 FT FROM LEFT

MAX. MOMENT RIGHT SPAN : 2.7 KIP - IN
LOC. OF MAX MOM. : 6.19 FT FROM LEFT

DISP. CRITERIA LEFT SPAN : 0.50 IN
LOC. OF MAX DISP. : 5.01 FT FROM LEFT

REQUIRED MOI : 1.660 IN**4

DISP. CRITERIA I RIGHT SPAN : 0.50 IN
LOC. OF MAX DISP. : 5.81 FT FROM LEFT

REQUIRED MOI : 0.426 IN**4

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JOB TITLE

: MIDDLE SPAN ELEV CW2 & CW3 *mulls*

WIND LOAD (PSF) : 20.6
MULLION SPACING (FT / FT-IN) : 3-8.75 (3.73)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN) : 10-6 (10.5)
RIGHT SPAN LENGTH (FT / FT-IN) : 9-1.25 (9.1)
LEFT OVERHANG SPAN (FT / FT-IN) : 1-4.75 (1.4)
RIGHT OVERHANG SPAN (FT / FT-IN) : 0-0 (0)
LEFT OVERHANG FORCE (LBS) : 247
RIGHT OVERHANG FORCE (LBS) : 0.0

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 719. LBS
CENTER REACTION : 882. LBS
RIGHT REACTION : 259. LBS

LEFT MOMENT : -5.0 KIP - IN
CENTER MOMENT : -9.9 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAX. MOMENT LEFT SPAN : 5.4 KIP - IN
LOC. OF MAX MOM. : 4.83 FT FROM LEFT

MAX. MOMENT RIGHT SPAN : 5.2 KIP - IN
LOC. OF MAX MOM. : 5.64 FT FROM LEFT

DISP. CRITERIA LEFT SPAN : 0.72 IN
LOC. OF MAX DISP. : 4.83 FT FROM LEFT

REQUIRED MOI : 0.869 IN**4

DISP. CRITERIA RIGHT SPAN : 0.62 IN
LOC. OF MAX DISP. : 5.28 FT FROM LEFT

REQUIRED MOI : 0.754 IN**4

JOB TITLE : MIDDLE SPAN ELEV CW2 & CW3 *JMMBS*

WIND LOAD (PSF) : 21.7
MULLION SPACING (FT / FT-IN) : 2-0.5 (2.04)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN) : 10-6 (10.5)
RIGHT SPAN LENGTH (FT / FT-IN) : 9-1.25 (9.1)
LEFT OVERHANG SPAN (FT / FT-IN) : 1-4.75 (1.4)
RIGHT OVERHANG SPAN (FT / FT-IN) : 0-0 (0)
LEFT OVERHANG FORCE (LBS) : 142
RIGHT OVERHANG FORCE (LBS) : 0.0

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 414. LBS
CENTER REACTION : 509. LBS
RIGHT REACTION : 149. LBS

LEFT MOMENT : -2.9 KIP - IN
CENTER MOMENT : -5.7 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAX. MOMENT LEFT SPAN : 3.1 KIP - IN
LOC. OF MAX MOM. : 4.83 FT FROM LEFT

MAX. MOMENT RIGHT SPAN : 3.0 KIP - IN
LOC. OF MAX MOM. : 5.64 FT FROM LEFT

DISP. CRITERIA LEFT SPAN : 0.50 IN
LOC. OF MAX DISP. : 4.83 FT FROM LEFT

REQUIRED MOI : 0.723 IN**4

DISP. CRITERIA RIGHT SPAN : 0.50 IN
LOC. OF MAX DISP. : 5.28 FT FROM LEFT

REQUIRED MOI : 0.542 IN**4

JOB TITLE : TOP SPAN ELEV CW2 & CW3 *mll*

WIND LOAD (PSF) : 20.6
MULLION SPACING (FT / FT-IN) : 3-8.75 (3.73)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 10-0.75 (10.06)
LEFT OVERHANG SPAN (FT / FT-IN) : 1-4.75 (1.4)
RIGHT OVERHANG SPAN (FT / FT-IN) : 0-0 (0)
LEFT OVERHANG FORCE (LBS) : 259
RIGHT OVERHANG FORCE (LBS) : 0.0

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 796. LBS
RIGHT REACTION : 343. LBS

LEFT MOMENT : -5.2 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 9.2 KIP - IN
LOC. OF MAX MOM. : 5.63 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.69 IN
LOC. OF MAX DISP. : 5.23 FT FROM LEFT

REQUIRED MOI : 1.882 IN**4

JOB TITLE : TOP SPAN ELEV CW2 & CW3 *JUMASS*

WIND LOAD (PSF) : 21.7
MULLION SPACING (FT / FT-IN) : 2-0.5 (2.04)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 10-0.75 (10.06)
LEFT OVERHANG SPAN (FT / FT-IN) : 1-4.75 (1.4)
RIGHT OVERHANG SPAN (FT / FT-IN) : 0-0 (0)
LEFT OVERHANG FORCE (LBS) : 149
RIGHT OVERHANG FORCE (LBS) : 0.0

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 459. LBS
RIGHT REACTION : 198. LBS

LEFT MOMENT : -3.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 5.3 KIP - IN
LOC. OF MAX MOM. : 5.63 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.50 IN
LOC. OF MAX DISP. : 5.23 FT FROM LEFT

REQUIRED MOI : 1.499 IN**4

JOB TITLE : BOTTOM SPAN ELEV CW4 *mull + concrete mull*

WIND LOAD (PSF) : 23.2
MULLION SPACING (FT / FT-IN) : 4-4.5 (4.38)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN) : 10-2.5 (10.21)
RIGHT SPAN LENGTH (FT / FT-IN) : 9-1.25 (9.1)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 401. LBS
CENTER REACTION : 1228. LBS
RIGHT REACTION : 331. LBS

LEFT MOMENT : 0.0 KIP - IN
CENTER MOMENT : -14.3 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAX. MOMENT LEFT SPAN : 9.5 KIP - IN
LOC. OF MAX MOM. : 3.88 FT FROM LEFT

MAX. MOMENT RIGHT SPAN : 6.5 KIP - IN
LOC. OF MAX MOM. : 5.83 FT FROM LEFT

DISP. CRITERIA LEFT SPAN : 0.70 IN
LOC. OF MAX DISP. : 4.49 FT FROM LEFT

REQUIRED MOI : 1.665 IN**4

DISP. CRITERIA I RIGHT SPAN : 0.62 IN
LOC. OF MAX DISP. : 5.46 FT FROM LEFT

REQUIRED MOI : 0.859 IN**4

JOB TITLE : BOTTOM SPAN ELEV CW4 *TimBS*

WIND LOAD (PSF) : 25.0
MULLION SPACING (FT / FT-IN) : 3-6.75 (3.56)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN) : 10-2.5 (10.21)
RIGHT SPAN LENGTH (FT / FT-IN) : 9-1.25 (9.1)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 352. LBS
CENTER REACTION : 1078. LBS
RIGHT REACTION : 290. LBS

LEFT MOMENT : 0.0 KIP - IN
CENTER MOMENT : -12.6 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAX. MOMENT LEFT SPAN : 8.3 KIP - IN
LOC. OF MAX MOM. : 3.88 FT FROM LEFT

MAX. MOMENT RIGHT SPAN : 5.7 KIP - IN
LOC. OF MAX MOM. : 5.83 FT FROM LEFT

DISP. CRITERIA LEFT SPAN : 0.50 IN
LOC. OF MAX DISP. : 4.49 FT FROM LEFT

REQUIRED MOI : 2.045 IN**4

DISP. CRITERIA I RIGHT SPAN : 0.50 IN
LOC. OF MAX DISP. : 5.46 FT FROM LEFT

REQUIRED MOI : 0.941 IN**4

JOB TITLE : TOP SPAN ELEV CW4 *mulls*

WIND LOAD (PSF) : 23.2
MULLION SPACING (FT / FT-IN) : 4-4.5 (4.38)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN) : 10-6.5 (10.54)
RIGHT SPAN LENGTH (FT / FT-IN) : 10-0.75 (10.06)
LEFT OVERHANG SPAN (FT / FT-IN) : 1-4.75 (1.4)
RIGHT OVERHANG SPAN (FT / FT-IN) : 0-0 (0)
LEFT OVERHANG FORCE (LBS) : 331
RIGHT OVERHANG FORCE (LBS) : 0.0

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 947. LBS
CENTER REACTION : 1227. LBS
RIGHT REACTION : 391. LBS

LEFT MOMENT : -6.7 KIP - IN
CENTER MOMENT : -14.5 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAX. MOMENT LEFT SPAN : 6.5 KIP - IN
LOC. OF MAX MOM. : 4.64 FT FROM LEFT
MAX. MOMENT RIGHT SPAN : 9.0 KIP - IN
LOC. OF MAX MOM. : 6.24 FT FROM LEFT

DISP. CRITERIA LEFT SPAN : 0.72 IN
LOC. OF MAX DISP. : 4.85 FT FROM LEFT
REQUIRED MOI : 0.986 IN**4

DISP. CRITERIA RIGHT SPAN : 0.69 IN
LOC. OF MAX DISP. : 5.84 FT FROM LEFT
REQUIRED MOI : 1.528 IN**4

JOB TITLE : TOP SPAN ELEV CW4 7mmBS

WIND LOAD (PSF) : 25.0
MULLION SPACING (FT / FT-IN) : 3-6.75 (3.56)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN) : 10-6.5 (10.54)
RIGHT SPAN LENGTH (FT / FT-IN) : 10-0.75 (10.06)
LEFT OVERHANG SPAN (FT / FT-IN) : 1-4.75 (1.4)
RIGHT OVERHANG SPAN (FT / FT-IN) : 0-0 (0)
LEFT OVERHANG FORCE (LBS) : 290
RIGHT OVERHANG FORCE (LBS) : 0.0

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 830. LBS
CENTER REACTION : 1076. LBS
RIGHT REACTION : 343. LBS

LEFT MOMENT : -5.9 KIP - IN
CENTER MOMENT : -12.7 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAX. MOMENT LEFT SPAN : 5.7 KIP - IN
LOC. OF MAX MOM. : 4.64 FT FROM LEFT

MAX. MOMENT RIGHT SPAN : 7.9 KIP - IN
LOC. OF MAX MOM. : 6.24 FT FROM LEFT

DISP. CRITERIA LEFT SPAN : 0.50 IN
LOC. OF MAX DISP. : 4.85 FT FROM LEFT

REQUIRED MOI : 1.252 IN**4

DISP. CRITERIA RIGHT SPAN : 0.50 IN
LOC. OF MAX DISP. : 5.84 FT FROM LEFT

REQUIRED MOI : 1.849 IN**4

JOB TITLE : ELEV CW5 MULL ABOVE DOORS

WIND LOAD (PSF) : 25.0
MULLION SPACING (FT / FT-IN) : 3-4.25 (3.35)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN) : 4-0.5 (4.04)
RIGHT SPAN LENGTH (FT / FT-IN) : 7-2.25 (7.19)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION ON MULL : 68. LBS ON $\frac{4.04'}{2}(3.35')(25\text{PSF}) = 170\#$
CENTER REACTION : 629. LBS
RIGHT REACTION : 245. LBS

LEFT MOMENT : 0.0 KIP - IN
CENTER MOMENT : -4.9 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAX. MOMENT LEFT SPAN : 0.3 KIP - IN
LOC. OF MAX MOM. : 0.81 FT FROM LEFT

MAX. MOMENT RIGHT SPAN : 4.3 KIP - IN
LOC. OF MAX MOM. : 4.31 FT FROM LEFT

DISP. CRITERIA LEFT SPAN : 0.28 IN
LOC. OF MAX DISP. : 2.83 FT FROM LEFT

REQUIRED MOI : 0.100 IN**4

DISP. CRITERIA I RIGHT SPAN : 0.49 IN
LOC. OF MAX DISP. : 3.88 FT FROM LEFT

REQUIRED MOI : 0.567 IN**4

JOB TITLE : ELEV CW5 JAMBS

WIND LOAD (PSF)	:	25.0	
MULLION SPACING (FT / FT-IN)	:	3-5.4	(3.45)
ALLOWABLE DEFLECTION RATIO	L/:	175	
MAX ALLOWABLE DEFLECTION (IN)	:	.50	

*WORST CASE BOTTOM
SPAN EN USED
(1-9 3/16" RETURN
e TOP
SPAN)*

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN)	:	11-5	(11.42)
RIGHT SPAN LENGTH (FT / FT-IN)	:	7-2.25	(7.19)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION	:	398. LBS
CENTER REACTION	:	1047. LBS
RIGHT REACTION	:	160. LBS

LEFT MOMENT	:	0.0 KIP - IN
CENTER MOMENT	:	-12.9 KIP - IN
RIGHT MOMENT	:	0.0 KIP - IN

MAX. MOMENT LEFT SPAN	:	11.0 KIP - IN
LOC. OF MAX MOM.	:	4.57 FT FROM LEFT

MAX. MOMENT RIGHT SPAN	:	1.8 KIP - IN
LOC. OF MAX MOM.	:	5.32 FT FROM LEFT

DISP. CRITERIA LEFT SPAN	:	0.50 IN
LOC. OF MAX DISP.	:	5.02 FT FROM LEFT

REQUIRED MOI	:	3.610 IN**4

DISP. CRITERIA I RIGHT SPAN	:	0.49 IN
LOC. OF MAX DISP.	:	1.73 FT FROM LEFT

REQUIRED MOI	:	0.319 IN**4

JOB TITLE : ELEV CW6 MULL

WIND LOAD (PSF) : 25.0
 MULLION SPACING (FT / FT-IN) : 3-10 (3.83)
 ALLOWABLE DEFLECTION RATIO L/: 175
 MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN) : 11-5 (11.42)
 RIGHT SPAN LENGTH (FT / FT-IN) : 7-2.25 (7.19)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 442. LBS
 CENTER REACTION : 1163. LBS
 RIGHT REACTION : 178. LBS

 LEFT MOMENT : 0.0 KIP - IN
 CENTER MOMENT : -14.4 KIP - IN
 RIGHT MOMENT : 0.0 KIP - IN

 MAX. MOMENT LEFT SPAN : 12.2 KIP - IN
 LOC. OF MAX MOM. : 4.57 FT FROM LEFT

 MAX. MOMENT RIGHT SPAN : 2.0 KIP - IN
 LOC. OF MAX MOM. : 5.32 FT FROM LEFT

 DISP. CRITERIA LEFT SPAN : 0.75 IN
 LOC. OF MAX DISP. : 5.02 FT FROM LEFT

 REQUIRED MOI : 2.674 IN**4

 DISP. CRITERIA I RIGHT SPAN : 0.49 IN
 LOC. OF MAX DISP. : 1.73 FT FROM LEFT

 REQUIRED MOI : 0.354 IN**4

JOB TITLE : ELEV CW6 JAMBS

WIND LOAD (PSF)	:	26.8	
MULLION SPACING (FT / FT-IN)	:	2-0.75	(2.06)
ALLOWABLE DEFLECTION RATIO	L/:	175	
MAX ALLOWABLE DEFLECTION (IN)	:	.50	

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN)	:	11-5	(11.42)
RIGHT SPAN LENGTH (FT / FT-IN)	:	7-2.25	(7.19)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION	:	255. LBS
CENTER REACTION	:	671. LBS
RIGHT REACTION	:	103. LBS

LEFT MOMENT	:	0.0 KIP - IN
CENTER MOMENT	:	-8.3 KIP - IN
RIGHT MOMENT	:	0.0 KIP - IN

MAX. MOMENT LEFT SPAN	:	7.1 KIP - IN
LOC. OF MAX MOM.	:	4.57 FT FROM LEFT

MAX. MOMENT RIGHT SPAN	:	1.1 KIP - IN
LOC. OF MAX MOM.	:	5.32 FT FROM LEFT

DISP. CRITERIA LEFT SPAN	:	0.50 IN
LOC. OF MAX DISP.	:	5.02 FT FROM LEFT

REQUIRED MOI	:	2.313 IN**4

DISP. CRITERIA RIGHT SPAN	:	0.49 IN
LOC. OF MAX DISP.	:	1.73 FT FROM LEFT

REQUIRED MOI	:	0.204 IN**4

JOB TITLE : ELEV CW7 MULLS

WIND LOAD (PSF) : 20.9
MULLION SPACING (FT / FT-IN) : 3-8.75 (3.73)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN) : 11-5 (11.42)
RIGHT SPAN LENGTH (FT / FT-IN) : 7-2.25 (7.19)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 360. LBS
CENTER REACTION : 946. LBS
RIGHT REACTION : 145. LBS

LEFT MOMENT : 0.0 KIP - IN
CENTER MOMENT : -11.7 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAX. MOMENT LEFT SPAN : 10.0 KIP - IN
LOC. OF MAX MOM. : 4.57 FT FROM LEFT

MAX. MOMENT RIGHT SPAN : 1.6 KIP - IN
LOC. OF MAX MOM. : 5.32 FT FROM LEFT

DISP. CRITERIA LEFT SPAN : 0.75 IN
LOC. OF MAX DISP. : 5.02 FT FROM LEFT

REQUIRED MOI : 2.175 IN**4

DISP. CRITERIA RIGHT SPAN : 0.49 IN
LOC. OF MAX DISP. : 1.73 FT FROM LEFT

REQUIRED MOI : 0.288 IN**4

JOB TITLE : ELEV CW7 JAMBS

WIND LOAD (PSF) : 21.7
MULLION SPACING (FT / FT-IN) : 2-1.75 (2.15)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

LEFT SPAN LENGTH (FT / FT-IN) : 11-5 (11.42)
RIGHT SPAN LENGTH (FT / FT-IN) : 7-2.25 (7.19)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 215. LBS
CENTER REACTION : 565. LBS
RIGHT REACTION : 86. LBS

LEFT MOMENT : 0.0 KIP - IN
CENTER MOMENT : -7.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAX. MOMENT LEFT SPAN : 5.9 KIP - IN
LOC. OF MAX MOM. : 4.57 FT FROM LEFT

MAX. MOMENT RIGHT SPAN : 1.0 KIP - IN
LOC. OF MAX MOM. : 5.32 FT FROM LEFT

DISP. CRITERIA LEFT SPAN : 0.50 IN
LOC. OF MAX DISP. : 5.02 FT FROM LEFT

REQUIRED MOI : 1.949 IN**4

DISP. CRITERIA I RIGHT SPAN : 0.49 IN
LOC. OF MAX DISP. : 1.73 FT FROM LEFT

REQUIRED MOI : 0.172 IN**4

JOB TITLE : ELEV SF3B 4C 3A 4A *m-115*

WIND LOAD (PSF) : 20.9
MULLION SPACING (FT / FT-IN) : 3-5.125 (3.43)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 6-9.5 (6.79)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 243. LBS
RIGHT REACTION : 243. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 5.0 KIP - IN
LOC. OF MAX MOM. : 3.40 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.47 IN
LOC. OF MAX DISP. : 3.40 FT FROM LEFT

REQUIRED MOI : 0.736 IN**4

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JOB TITLE : ELEV SF3B 4C 3A 4A *JMMBS*

WIND LOAD (PSF) : 21.7
MULLION SPACING (FT / FT-IN) : 1-9.8 (1.82)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 6-9.5 (6.79)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 134. LBS
RIGHT REACTION : 134. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 2.7 KIP - IN
LOC. OF MAX MOM. : 3.40 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.47 IN
LOC. OF MAX DISP. : 3.40 FT FROM LEFT

REQUIRED MOI : 0.405 IN**4

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JOB TITLE : ELEV SF4D 4F m/l/s

WIND LOAD (PSF) : 25.0
MULLION SPACING (FT / FT-IN) : 3-5.125 (3.43)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 6-9.5 (6.79)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 291. LBS
RIGHT REACTION : 291. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 5.9 KIP - IN
LOC. OF MAX MOM. : 3.40 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.47 IN
LOC. OF MAX DISP. : 3.40 FT FROM LEFT

REQUIRED MOI : 0.881 IN**4

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JOB TITLE : ELEV SF4D 4F *Jmbs*

WIND LOAD (PSF) : 26.8
MULLION SPACING (FT / FT-IN) : 1-9.8 (1.82)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 6-9.5 (6.79)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 165. LBS
RIGHT REACTION : 165. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 3.4 KIP - IN
LOC. OF MAX MOM. : 3.40 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.47 IN
LOC. OF MAX DISP. : 3.40 FT FROM LEFT

REQUIRED MOI : 0.500 IN**4

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JOB TITLE : ELEV SF1B SFIC *mlls*

WIND LOAD (PSF) : 20.3
MULLION SPACING (FT / FT-IN) : 4-1.625 (4.14)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 8-0.5 (8.04)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 338. LBS
RIGHT REACTION : 338. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 8.1 KIP - IN
LOC. OF MAX MOM. : 4.02 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.55 IN
LOC. OF MAX DISP. : 4.02 FT FROM LEFT

REQUIRED MOI : 1.432 IN**4

JOB TITLE : ELEV SF1B SFIC *Jmms*

WIND LOAD (PSF) : 21.2
MULLION SPACING (FT / FT-IN) : 2-2.1 (2.18)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 8-0.5 (8.04)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 185. LBS
RIGHT REACTION : 185. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 4.5 KIP - IN
LOC. OF MAX MOM. : 4.02 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.50 IN
LOC. OF MAX DISP. : 4.02 FT FROM LEFT

REQUIRED MOI : 0.868 IN**4

DATE: *9/22* || BY: *[Signature]* || SUBJECT: _____ || PAGE: *38* OF *89*

JOB TITLE

: ELEV SF1A SF1D *mull's*

WIND LOAD (PSF) : 23.9
MULLION SPACING (FT / FT-IN) : 4-1.625 (4.14)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 8-0.5 (8.04)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 397. LBS
RIGHT REACTION : 397. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 9.6 KIP - IN
LOC. OF MAX MOM. : 4.02 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.55 IN
LOC. OF MAX DISP. : 4.02 FT FROM LEFT

REQUIRED MOI : 1.687 IN**4

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JOB TITLE : ELEV SF2A 2B 2C 2D & 2E *m/l/s*

WIND LOAD (PSF) : 21.2
MULLION SPACING (FT / FT-IN) : 2-7.625 (2.64)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 7-1.5 (7.13)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 199. LBS
RIGHT REACTION : 199. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 4.3 KIP - IN
LOC. OF MAX MOM. : 3.56 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.49 IN
LOC. OF MAX DISP. : 3.56 FT FROM LEFT

REQUIRED MOI : 0.663 IN**4

JOB TITLE : ELEV SF2A 2B 2C 2D & 2E *JAMBS*

WIND LOAD (PSF) : 21.7
 MULLION SPACING (FT / FT-IN) : 1-4.8 (1.4)
 ALLOWABLE DEFLECTION RATIO L/: 175
 MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 7-1.5 (7.13)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 108. LBS
 RIGHT REACTION : 108. LBS

 LEFT MOMENT : 0.0 KIP - IN
 RIGHT MOMENT : 0.0 KIP - IN

 MAXIMUM MOMENT : 2.3 KIP - IN
 LOC. OF MAX MOM. : 3.56 FT FROM LEFT

 DISPLACEMENT CRITERIA : 0.49 IN
 LOC. OF MAX DISP. : 3.56 FT FROM LEFT

 REQUIRED MOI : 0.361 IN**4

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JOB TITLE : ELEV SF5 TALL *mull*

WIND LOAD (PSF) : 20.3
MULLION SPACING (FT / FT-IN) : 3-8 (3.67)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 9-2.375 (9.2)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 342. LBS
RIGHT REACTION : 342. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 9.4 KIP - IN
LOC. OF MAX MOM. : 4.60 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.63 IN
LOC. OF MAX DISP. : 4.60 FT FROM LEFT

REQUIRED MOI : 1.901 IN**4

JOB TITLE : ELEV SF5 TALL *JAMB*

WIND LOAD (PSF) : 21.2
MULLION SPACING (FT / FT-IN) : 1-11 (1.92)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 9-2.375 (9.2)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 187. LBS
RIGHT REACTION : 187. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 5.2 KIP - IN
LOC. OF MAX MOM. : 4.60 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.50 IN
LOC. OF MAX DISP. : 4.60 FT FROM LEFT

REQUIRED MOI : 1.309 IN**4

JOB TITLE

: ELEV SF5 SF6 SF7 & SF8 *SHORT* m/lj

WIND LOAD (PSF) : 20.3
MULLION SPACING (FT / FT-IN) : 4-4.5 (4.38)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 7-11.5 (7.96)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 353. LBS
RIGHT REACTION : 353. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 8.4 KIP - IN
LOC. OF MAX MOM. : 3.98 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.55 IN
LOC. OF MAX DISP. : 3.98 FT FROM LEFT

REQUIRED MOI : 1.469 IN**4

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JOB TITLE

: ELEV SF5 SF6 SF7 & SF8

← SHORT

JAMBS

WIND LOAD (PSF) : 21.2
MULLION SPACING (FT / FT-IN) : 2-3.25 (2.27)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 7-11.5 (7.96)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 192. LBS
RIGHT REACTION : 192. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 4.6 KIP - IN
LOC. OF MAX MOM. : 3.98 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.50 IN
LOC. OF MAX DISP. : 3.98 FT FROM LEFT

REQUIRED MOI : 0.869 IN**4

JOB TITLE : ELEV SF9A & SF9B *mulls*

WIND LOAD (PSF) : 25.7
MULLION SPACING (FT / FT-IN) : 2-5.625 (2.47)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX. ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 7-1.125 (7.09)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 225. LBS
RIGHT REACTION : 225. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 4.8 KIP - IN
LOC. OF MAX MOM. : 3.55 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.49 IN
LOC. OF MAX DISP. : 3.55 FT FROM LEFT

REQUIRED MOI : 0.743 IN**4

JOB TITLE : ELEV SF9A & SF9B *Truss*

WIND LOAD (PSF) : 26.8
MULLION SPACING (FT / FT-IN) : 1-8 (1.67)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX. ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 7-1.125 (7.09)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 158. LBS
RIGHT REACTION : 158. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 3.4 KIP - IN
LOC. OF MAX MOM. : 3.55 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.49 IN
LOC. OF MAX DISP. : 3.55 FT FROM LEFT

REQUIRED MOI : 0.523 IN**4

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JOB TITLE : ELEV 149D 151E 149D/E11

WIND LOAD (PSF) : 26.8
MULLION SPACING (FT / FT-IN) : 1-8 (1.67)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 7-4 (7.33)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 164. LBS
RIGHT REACTION : 164. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 3.6 KIP - IN
LOC. OF MAX MOM. : 3.67 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.50 IN
LOC. OF MAX DISP. : 3.67 FT FROM LEFT

REQUIRED MOI : 0.581 IN**4

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JOB TITLE : ELEV SF15 TALL *mulls*

WIND LOAD (PSF) : 23.9
MULLION SPACING (FT / FT-IN) : 3-8.6 (3.72)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 8-10.375 (8.86)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 394. LBS
RIGHT REACTION : 394. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 10.5 KIP - IN
LOC. OF MAX MOM. : 4.43 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.61 IN
LOC. OF MAX DISP. : 4.43 FT FROM LEFT

REQUIRED MOI : 2.030 IN**4

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JOB TITLE : ELEV SF15 TALL *7mms*

WIND LOAD (PSF) : 26.8
MULLION SPACING (FT / FT-IN) : 0-8.75 (.73)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 8-10.375 (8.86)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 87. LBS
RIGHT REACTION : 87. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 2.3 KIP - IN
LOC. OF MAX MOM. : 4.43 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.50 IN
LOC. OF MAX DISP. : 4.43 FT FROM LEFT

REQUIRED MOI : 0.543 IN**4

JOB TITLE : ELEV SF15 SF16A SF16B

WIND LOAD (PSF) : 21.7
MULLION SPACING (FT / FT-IN) : 1-7.25 (1.6)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 6-1.5 (6.13)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 107. LBS
RIGHT REACTION : 107. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 2.0 KIP - IN
LOC. OF MAX MOM. : 3.06 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.42 IN
LOC. OF MAX DISP. : 3.06 FT FROM LEFT

REQUIRED MOI : 0.262 IN**4

JOB TITLE : ELEV SF19 & SF20 *mulls*

WIND LOAD (PSF) : 15
MULLION SPACING (FT / FT-IN) : 4-5 (4.42)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 7-10.5 (7.88)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 261. LBS
RIGHT REACTION : 261. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 6.2 KIP - IN
LOC. OF MAX MOM. : 3.94 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.54 IN
LOC. OF MAX DISP. : 3.94 FT FROM LEFT

REQUIRED MOI : 1.062 IN**4

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JOB TITLE : ELEV SF19 & SF20 *JUMBS*

WIND LOAD (PSF) : 15
MULLION SPACING (FT / FT-IN) : 1-7.375 (1.61)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 7-10.5 (7.88)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 95. LBS
RIGHT REACTION : 95. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 2.3 KIP - IN
LOC. OF MAX MOM. : 3.94 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.50 IN
LOC. OF MAX DISP. : 3.94 FT FROM LEFT

REQUIRED MOI : 0.419 IN**4

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JOB TITLE : ELEV SF17 MULLS

WIND LOAD (PSF) : 20.6
MULLION SPACING (FT / FT-IN) : 3-4.75 (3.4)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 8-9.375 (8.78)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 307. LBS
RIGHT REACTION : 307. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 8.1 KIP - IN
LOC. OF MAX MOM. : 4.39 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.60 IN
LOC. OF MAX DISP. : 4.39 FT FROM LEFT

REQUIRED MOI : 1.554 IN**4

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JOB TITLE : ELEV SF17 JAMBS

WIND LOAD (PSF) : 21.2
MULLION SPACING (FT / FT-IN) : 1-9.375 (1.78)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 8-9.375 (8.78)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 166. LBS
RIGHT REACTION : 166. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 4.4 KIP - IN
LOC. OF MAX MOM. : 4.39 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.50 IN
LOC. OF MAX DISP. : 4.39 FT FROM LEFT

REQUIRED MOI : 1.010 IN**4

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JOB TITLE : ELEV SF18 MULLS

WIND LOAD (PSF) : 15
MULLION SPACING (FT / FT-IN) : 3-1.5 (3.13)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 8-9.375 (8.78)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 206. LBS
RIGHT REACTION : 206. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 5.4 KIP - IN
LOC. OF MAX MOM. : 4.39 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.60 IN
LOC. OF MAX DISP. : 4.39 FT FROM LEFT

REQUIRED MOI : 1.041 IN**4

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JOB TITLE : ELEV SF18 JAMBS

WIND LOAD (PSF) : 15
MULLION SPACING (FT / FT-IN) : 1-8 (1.67)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 8-9.375 (8.78)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 110. LBS
RIGHT REACTION : 110. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 2.9 KIP - IN
LOC. OF MAX MOM. : 4.39 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.50 IN
LOC. OF MAX DISP. : 4.39 FT FROM LEFT

REQUIRED MOI : 0.669 IN**4

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JOB TITLE : ELEV SF11 JAMBS

WIND LOAD (PSF) : 15
MULLION SPACING (FT / FT-IN) : 3-2 (3.17)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 9-10.5 (9.88)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 235. LBS
RIGHT REACTION : 235. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 6.9 KIP - IN
LOC. OF MAX MOM. : 4.94 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.50 IN
LOC. OF MAX DISP. : 4.94 FT FROM LEFT

REQUIRED MOI : 2.033 IN**4

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JOB TITLE : ELEV SF10 MULLS

WIND LOAD (PSF) : 15
MULLION SPACING (FT / FT-IN) : 2-1 (2.08)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .75

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 9-10.5 (9.88)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 154. LBS
RIGHT REACTION : 154. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 4.6 KIP - IN
LOC. OF MAX MOM. : 4.94 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.68 IN
LOC. OF MAX DISP. : 4.94 FT FROM LEFT

REQUIRED MOI : 0.987 IN**4

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JOB TITLE : ELEV SF10 JAMBS

WIND LOAD (PSF) : 15
MULLION SPACING (FT / FT-IN) : 1-4 (1.33)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 9-10.5 (9.88)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 99. LBS
RIGHT REACTION : 99. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 2.9 KIP - IN
LOC. OF MAX MOM. : 4.94 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.50 IN
LOC. OF MAX DISP. : 4.94 FT FROM LEFT

REQUIRED MOI : 0.856 IN**4

JOB TITLE : ELEV SF12 JAMBS

WIND LOAD (PSF) : 15
MULLION SPACING (FT / FT-IN) : 1-11.25 (1.94)
ALLOWABLE DEFLECTION RATIO L/: 175
MAX ALLOWABLE DEFLECTION (IN) : .50

SPANS & FORCES

CENTER SPAN LENGTH (FT / FT-IN) : 7-11.375 (7.95)

REACTION, MOMENTS & MOI REQ.

LEFT REACTION : 115. LBS
RIGHT REACTION : 115. LBS

LEFT MOMENT : 0.0 KIP - IN
RIGHT MOMENT : 0.0 KIP - IN

MAXIMUM MOMENT : 2.8 KIP - IN
LOC. OF MAX MOM. : 3.97 FT FROM LEFT

DISPLACEMENT CRITERIA : 0.50 IN
LOC. OF MAX DISP. : 3.97 FT FROM LEFT

REQUIRED MOI : 0.522 IN**4

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JOB TITLE : TYPICAL CW HORIZONTAL WORST CASE

WIND LOAD (PSF) : 26.8

GLASS WEIGHT (PSF) : 6.50

GLASS INSET TOP & BOTTOM (IN) : .500
GLASS INSET LEFT & RIGHT (IN) : .500

DISPLACEMENT CRITERIA

WIND - ALLOW. DISP. RATIO L/: 175
WIND - MAX ALLOW. DISP. (IN) : .75

DEAD - ALLOW. DISP. RATIO L/: 360
DEAD - MAX ALLOW. DISP. (IN) : .125

HORIZONTAL & GLASS SPANS (D.L.O.)

SPAN LENGTH (FT / FT-IN) : 4-2 (4.17)

GLASS ABOVE SPAN (FT / FT-IN) : 9-5 (9.42)
GLASS BELOW SPAN (FT / FT-IN) : 0-9.5 (.79)

WIND LOAD - REACTION, MOMENTS & MOI REQ.

REACTION : 78. LBS MAXIMUM MOMENT : 1.2 KIP - IN

DISP. CRITERIA : 0.29 IN REQUIRED MOI : 0.110 IN**4

DEAD LOAD - REACTION, MOMENTS & MOI REQ.

REACTION : 131. LBS DISP. CRITERIA : 0.125 IN

CHAIR LOC. (IN)	MAX MOMENT (K-IN)	REQ. MOI (IN^4)
L/4 12.5	1.640	0.376
L/8 ****	*****	*****
8	1.050	0.253
7	0.919	0.224
6	0.787	0.193
5	0.656	0.162
4	0.525	0.130
3	0.394	0.098

JOB TITLE : TYPICAL CW HORIZONTAL ABOVE DOORS

WIND LOAD (PSF) : 26.8

GLASS WEIGHT (PSF) : 6.50

GLASS INSET TOP & BOTTOM (IN) : .500
GLASS INSET LEFT & RIGHT (IN) : .500

DISPLACEMENT CRITERIA

WIND - ALLOW. DISP. RATIO L/: 175
WIND - MAX ALLOW. DISP. (IN) : .75

DEAD - ALLOW. DISP. RATIO L/: 360
DEAD - MAX ALLOW. DISP. (IN) : .0625 *Limit by 70" / 16"*

HORIZONTAL & GLASS SPANS (D.L.O.)

SPAN LENGTH (FT / FT-IN) : 3-8 (3.67)

GLASS ABOVE SPAN (FT / FT-IN) : 2-4.5 (2.38)
GLASS BELOW SPAN (FT / FT-IN) : 7-0 (7)

WIND LOAD - REACTION, MOMENTS & MOI REQ.

REACTION : 84. LBS MAXIMUM MOMENT : 1.2 KIP - IN

DISP. CRITERIA : 0.25 IN REQUIRED MOI : 0.094 IN**4

DEAD LOAD - REACTION, MOMENTS & MOI REQ.

REACTION : 30. LBS DISP. CRITERIA : 0.063 IN

	CHAIR LOC. (IN)	MAX MOMENT (K-IN)	REQ. MOI (IN^4)
L/4	11.0	0.330	0.117
L/8	****	*****	*****
	8	0.240	0.089
	7	0.210	0.078
	6	0.180	0.068
	5	0.150	0.057
	4	0.120	0.046
	3	0.090	0.035

JOB TITLE : TYPICAL STOREFRONT HORIZONTAL - *WONTIASE*

WIND LOAD (PSF) : 26.8

GLASS WEIGHT (PSF) : 6.50

GLASS INSET TOP & BOTTOM (IN) : .500
GLASS INSET LEFT & RIGHT (IN) : .500

DISPLACEMENT CRITERIA

WIND - ALLOW. DISP. RATIO L/: 175
WIND - MAX ALLOW. DISP. (IN) : .75

DEAD - ALLOW. DISP. RATIO L/: 360
DEAD - MAX ALLOW. DISP. (IN) : .125

HORIZONTAL & GLASS SPANS (D.L.O.)

SPAN LENGTH (FT / FT-IN) : 4-2.5 (4.21)

GLASS ABOVE SPAN (FT / FT-IN) : 2-9 (2.75)
GLASS BELOW SPAN (FT / FT-IN) : 6-9.75 (6.81)

WIND LOAD - REACTION, MOMENTS & MOI REQ.

REACTION : 112. LBS MAXIMUM MOMENT : 1.8 KIP - IN

DISP. CRITERIA : 0.29 IN REQUIRED MOI : 0.164 IN**4

DEAD LOAD - REACTION, MOMENTS & MOI REQ.

REACTION : 40. LBS DISP. CRITERIA : 0.125 IN

CHAIR LOC. (IN)	MAX MOMENT (K-IN)	REQ. MOI (IN^4)
L/4 12.6	0.499	0.117
L/8 ****	*****	*****
8	0.316	0.078
7	0.277	0.069
6	0.237	0.059
5	0.198	0.050
4	0.158	0.040
3	0.119	0.030

JOB TITLE : ELEV SF15 BIG DLO HORIZ

WIND LOAD (PSF) : 26.8

GLASS WEIGHT (PSF) : 6.50

GLASS INSET TOP & BOTTOM (IN) : .500
GLASS INSET LEFT & RIGHT (IN) : .500

DISPLACEMENT CRITERIA

WIND - ALLOW. DISP. RATIO L/: 175
WIND - MAX ALLOW. DISP. (IN) : .75

DEAD - ALLOW. DISP. RATIO L/: 360
DEAD - MAX ALLOW. DISP. (IN) : .125

HORIZONTAL & GLASS SPANS (D.L.O.)

SPAN LENGTH (FT / FT-IN) : 6-0 (6)

GLASS ABOVE SPAN (FT / FT-IN) : 0-8.125 (.68)
GLASS BELOW SPAN (FT / FT-IN) : 0-8.125 (.68)

WIND LOAD - REACTION, MOMENTS & MOI REQ.

REACTION : 51. LBS MAXIMUM MOMENT : 1.0 KIP - IN

DISP. CRITERIA : 0.41 IN REQUIRED MOI : 0.128 IN**4

DEAD LOAD - REACTION, MOMENTS & MOI REQ.

REACTION : 15. LBS DISP. CRITERIA : 0.125 IN

CHAIR LOC. (IN)	MAX MOMENT (K-IN)	REQ. MOI (IN^4)
L/4 18.0	0.271	0.129
L/8 9.0	0.135	0.069
8	0.120	0.061
7	0.105	0.054
6	0.090	0.046
5	0.075	0.039
4	0.060	0.031
3	0.045	0.023

JOB TITLE : TYPICAL SF HORIZ ABOVE DOORS

WIND LOAD (PSF) : 26.8

 GLASS WEIGHT (PSF) : 6.50
 GLASS INSET TOP & BOTTOM (IN) : .500
 GLASS INSET LEFT & RIGHT (IN) : .500

DISPLACEMENT CRITERIA

WIND - ALLOW. DISP. RATIO L/: 175
 WIND - MAX ALLOW. DISP. (IN) : .75

 DEAD - ALLOW. DISP. RATIO L/: 360
 DEAD - MAX ALLOW. DISP. (IN) : .0625 *~ Limit by TD 1/14*

HORIZONTAL & GLASS SPANS (D.L.O.)

SPAN LENGTH (FT / FT-IN) : 3-0 (3)
 GLASS ABOVE SPAN (FT / FT-IN) : 1-0 (1)
 GLASS BELOW SPAN (FT / FT-IN) : 7-0 (7)

WIND LOAD - REACTION, MOMENTS & MOI REQ.

REACTION : 47. LBS MAXIMUM MOMENT : 0.5 KIP - IN

 DISP. CRITERIA : 0.21 IN REQUIRED MOI : 0.034 IN**4

DEAD LOAD - REACTION, MOMENTS & MOI REQ.

REACTION : 11. LBS DISP. CRITERIA : 0.063 IN

	CHAIR LOC. (IN)	MAX MOMENT (K-IN)	REQ. MOI (IN^4)
L/4	9.0	0.098	0.023
L/8	****	*****	*****
	8	0.087	0.021
	7	0.076	0.019
	6	0.065	0.016
	5	0.054	0.014
	4	0.043	0.011
	3	0.033	0.008

JOB TITLE : ELEV SF15 SF20 HORIZ ABOVE DOORS

WIND LOAD (PSF) : 26.8

GLASS WEIGHT (PSF) : 6.50

GLASS INSET TOP & BOTTOM (IN) : .500
GLASS INSET LEFT & RIGHT (IN) : .500

DISPLACEMENT CRITERIA

WIND - ALLOW. DISP. RATIO L/: 175
WIND - MAX ALLOW. DISP. (IN) : .75

DEAD - ALLOW. DISP. RATIO L/: 360
DEAD - MAX ALLOW. DISP. (IN) : .0625 — Limit by TO 1/14

HORIZONTAL & GLASS SPANS (D.L.O.)

SPAN LENGTH (FT / FT-IN) : 6-0 (6)

GLASS ABOVE SPAN (FT / FT-IN) : 1-0 (1)
GLASS BELOW SPAN (FT / FT-IN) : 7-0 (7)

WIND LOAD - REACTION, MOMENTS & MOI REQ.

REACTION : 157. LBS MAXIMUM MOMENT : 3.6 KIP - IN

DISP. CRITERIA : 0.41 IN REQUIRED MOI : 0.459 IN**4

DEAD LOAD - REACTION, MOMENTS & MOI REQ.

REACTION : 21. LBS DISP. CRITERIA : 0.063 IN

CHAIR LOC. (IN)	MAX MOMENT (K-IN)	REQ. MOI (IN^4)
L/4 18.0	0.386	0.366
L/8 9.0	0.193	0.196
8	0.171	0.175
7	0.150	0.153
6	0.129	0.132
5	0.107	0.110
4	0.086	0.088
3	0.064	0.066

JOB TITLE : ELEV SF11 HORIZ ABOVE DOOR

WIND LOAD (PSF) : 15

GLASS WEIGHT (PSF) : 3.25

GLASS INSET TOP & BOTTOM (IN) : .500
GLASS INSET LEFT & RIGHT (IN) : .500

DISPLACEMENT CRITERIA

WIND - ALLOW. DISP. RATIO L/: 175
WIND - MAX ALLOW. DISP. (IN) : .75

DEAD - ALLOW. DISP. RATIO L/: 360
DEAD - MAX ALLOW. DISP. (IN) : .0625 — LIMIT Δ₇ TO 1/16"

HORIZONTAL & GLASS SPANS (D.L.O.)

SPAN LENGTH (FT / FT-IN) : 6-0 (6)

GLASS ABOVE SPAN (FT / FT-IN) : 2-6.5 (2.54)
GLASS BELOW SPAN (FT / FT-IN) : 7-0 (7)

WIND LOAD - REACTION, MOMENTS & MOI REQ.

REACTION : 113. LBS MAXIMUM MOMENT : 2.6 KIP - IN

DISP. CRITERIA : 0.41 IN REQUIRED MOI : 0.330 IN**4

DEAD LOAD - REACTION, MOMENTS & MOI REQ.

REACTION : 26. LBS DISP. CRITERIA : 0.063 IN

CHAIR LOC. (IN)	MAX MOMENT (K-IN)	REQ. MOI (IN^4)
L/4 18.0	0.467	0.444
L/8 9.0	0.234	0.237
8	0.208	0.212
7	0.182	0.186
6	0.156	0.160
5	0.130	0.134
4	0.104	0.107
3	0.078	0.081

SHEET 72 OF 89
4/22/16

WW 400

REGIONS

Area: 1.58391968
 Perimeter: 32.20978663
 Bounding box: X: -1.25000000 -- 1.25000000
 Y: -2.60181745 -- 2.65818255
 Centroid: X: 0.00000000
 Y: 0.00000000
 Moments of inertia: X: 4.80146212 $\rightarrow I_{xx}$ $S_{xx} = 4.801/2.658 = 1.806$
 Y: 1.34045708 $\rightarrow I_{yy}$ $S_{yy} = 1.340/1.25 = 1.072$
 Product of inertia: XY: 0.00000000
 Radii of gyration: X: 1.74109076
 Y: 0.91994341
 Principal moments and X-Y directions about centroid:
 I: 1.34045708 along [0.00000000 -1.00000000]
 J: 4.80146212 along [1.00000000 0.00000000]

WW 401

REGIONS

Area: 1.35632806
 Perimeter: 27.82336071
 Bounding box: X: -1.45628919 -- 1.04371082
 Y: -2.39392021 -- 2.86643878
 Centroid: X: 0.00000000
 Y: 0.00000000
 Moments of inertia: X: 4.79282413
 Y: 1.01985776
 Product of inertia: XY: 0.63391504
 Radii of gyration: X: 1.87980944
 Y: 0.96713821
 Principal moments and X-Y directions about centroid:
 I: 0.91715179 along [0.16067312 0.98700767]
 J: 4.29553959 along [-0.98700767 0.16067312]

WW 402

REGIONS

Area: 1.33567543
 Perimeter: 26.57335122
 Bounding box: X: -1.00494788 -- 1.49505212
 Y: -2.43131890 -- 2.82368010
 Centroid: X: 0.00000000
 Y: 0.00000000

ww 402

Sheet 73 of 81
4/22/16

Moments of inertia: X: 4.67731849 Y: 0.99463682 $S_{xx} = 4.677/2.828 = 1.653 \text{ in}^3$
 Product of inertia: XY: -0.54334132
 Radii of gyration: X: 1.87131976 Y: 0.86294238
 Principal moments and X-Y directions about centroid:
 I: 0.91614541 along [0.14297642 -0.98972609]
 J: 4.75580990 along [0.98972609 0.14297642]

WW 403

----- REGIONS -----

Area: 1.62250901
 Perimeter: 32.46734341
 Bounding box: X: -1.18349247 -- 1.31630753
 Y: -2.53454557 -- 2.72591341
 Centroid: X: 0.00000000
 Y: 0.00000000
 Moments of inertia: X: 5.07297169 Y: 1.50024702 $S_{xx} = 5.072/2.726 = 2.092 \text{ in}^3$
 Product of inertia: XY: 0.23668807 $S_{yy} = 1.500/1.317 = 1.139 \text{ in}^3$
 Radii of gyration: X: 1.76822773
 Y: 0.96158651
 Principal moments and X-Y directions about centroid:
 I: 1.48483498 along [0.06581736 0.99783169]
 J: 5.08858373 along [-0.99783169 0.06581736]

WW 404

----- REGIONS -----

Area: 1.69672303
 Perimeter: 25.97849824
 Bounding box: X: -1.25000000 -- 1.25000000
 Y: -2.03876193 -- 2.00759705
 Centroid: X: 0.00000000
 Y: 0.00000000
 Moments of inertia: X: 4.32922746 $S_{xx} = 4.329/2.038 = 2.124$
 Y: 1.53051610 $S_{yy} = 1.530/1.25 = 1.224$
 Product of inertia: XY: 0.00000000
 Radii of gyration: X: 1.59734855
 Y: 0.94975911
 Principal moments and X-Y directions about centroid:
 I: 1.53051610 along [0.00000000 1.00000000]
 J: 4.32922746 along [-1.00000000 0.00000000]

WW 410

Single Die Report

Sheet 74 of 89
9/22/14

Print Date: 9/7/2006

Shape Number ——— WW240

Description ——— 90 DEG. CORNER MULL

Height ——— 2.5
 Depth ——— 6.295
 Wt Per Ft ——— 2.428
 Temper ——— T6
 Alloy ——— 6063
 Die No. ——— 81150
 TN Die Num ———
 Vendor ———
 Primary Use ——— M
 Project No. ——— PROD.DEL
 Total Perimeter ——— 34.563
 Cross Section ——— 2.023
 P&D Cross Section — 0
 Outside Perimeter — 19.116
 Exposed Perimeter — 11.126
 Exposed Surface — INSI
 Die Factor ——— 14
 CCD ——— 6.5 - 7
 Class ——— H
 lx ——— 10.172
 ly ——— 1.993

Sx Front ——— 0
 Sx Back ——— 0 Sxx 3.00
 Sy Left ——— 0
 Sy Right ——— 0
 Sx Mirror Front ——— 0
 Sx Mirror Back ——— 0
 ly Mirror Front ——— 0
 ly Mirror Back ——— 0
 Ry Mirror Front ——— 0
 Ry Mirror Back ——— 0
 Rx ——— 0
 J Mirror Front ——— 0
 J Mirror Back ——— 0
 X Neutral ——— 0
 Y Neutral ——— 0
 Profile Height ——— 6.295
 Profile Width ——— 2.5
 Date Drawn ——— 10/14/2004
 Date Entered ——— 10/20/2004
 Last Revision ———
 Revision Date ——— 12:00:00 AM



Single Die Report

Sheet 75 of 89
8/22/12

Print Date: 07/06/2012

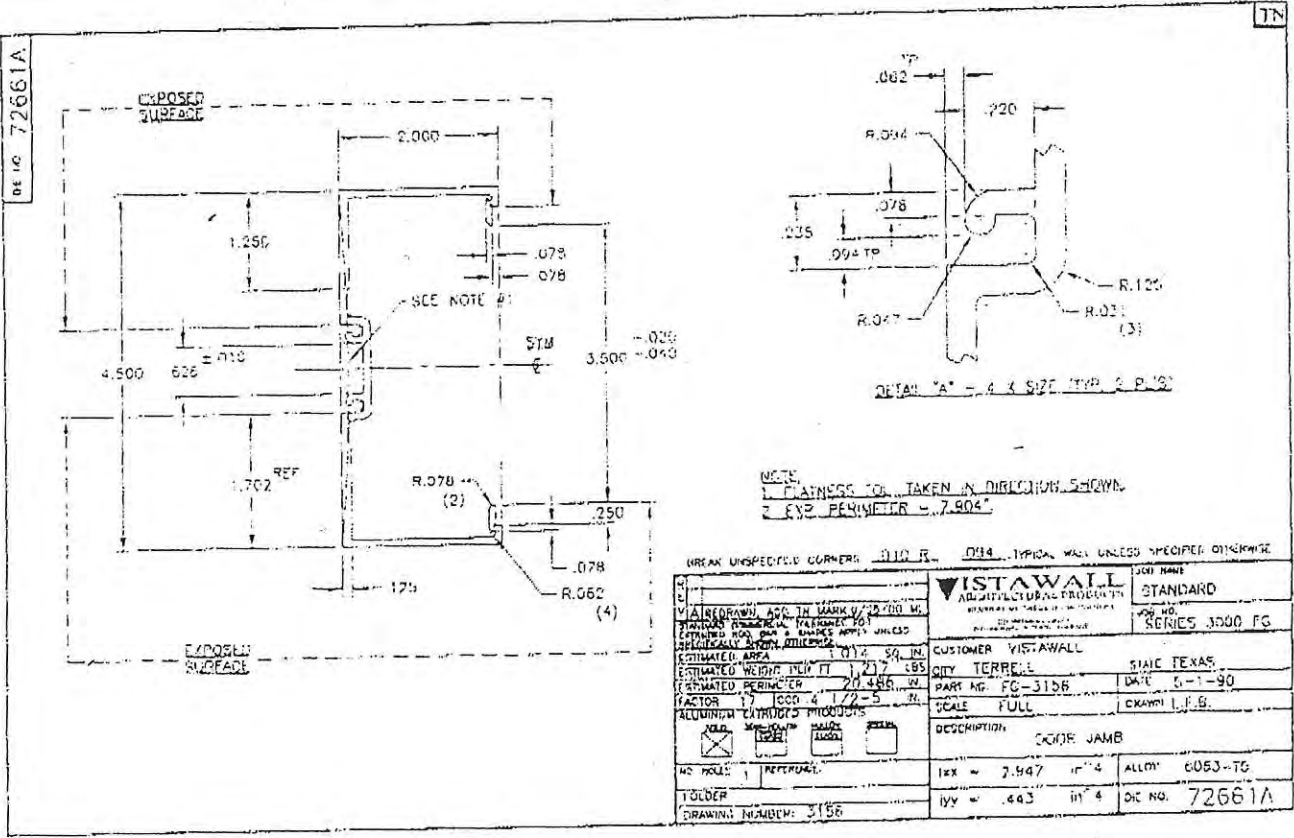
Shape Number: FG3495

Description: MULLION

Height:	2.000	SX Front:	1.257
Depth:	4.500	SX Back:	1.257
Wt Per Ft:	1.299	SY Left:	0.558
Temper:	T6	SY Right:	0.331
Alloy:	6063	SX Mirror Front:	0.000
Die No:	83868	SX Mirror Back:	0.000
TN Die No:	FG3495	IY Mirror Front:	0.000
Primary Use:	M	IY Mirror Back:	0.000
Project Number:	PROD DEV	RY Mirror Front:	0.000
Total Perimeter:	28.465	RY Mirror Back:	0.000
Cross Section:	1.082	RX:	1.617
P&D Cross Section:	0.143	J Mirror Front:	0.000
Outside Perimeter:	28.465	J Mirror Back:	0.000
Exposed Perimeter:	7.154	X Neutral:	0.000
Exposed Surface:	OUSI	Y Neutral:	0.000
Die Factor:	22	Profile Height:	4.500
CCD:	4.5 - 5	Profile Width:	2.000
Class:	S	Date Drawn:	08/03/2009
IX:	2.828	Date Entered:	01/01/1900
IY:	0.416	Revision Date:	04/04/2012
		Revision:	B

Sheet 76 of 80
4/12/16

FG-3156



$I_{xx} = 2.947 \text{ IN}^4$
 $S_{xx} = 1.309 \text{ IN}^3$
 $I_{yy} = .443 \text{ IN}^4$

PROJECT NAME = fg3100.txt

PROJECT NUMBER=1

Ixx - NEUTRAL MOMENT OF INERTIA = 2.94765 ← AREA = 1.11016
Iyy - NEUTRAL MOMENT OF INERTIA = .426906 ← PERIMETER = 24.0991
Ixy - NEUTRAL MOMENT OF INERTIA = .000000
Ip - POLAR MOMENT OF INERTIA = 3.37456
Imax - MAXIMUM MOMENT OF INERTIA = 2.94765
Imin - MINIMUM MOMENT OF INERTIA = .426906
Theta - PRINCIPLE TO LOCAL ANGLE = .000000
Rmax - MAXIMUM RADIUS OF GYRATION= 1.62947 ←
Rmin - MINIMUM RADIUS OF GYRATION= .620117 ←

FG-3100

IXX - GLOBAL MOMENT OF INERTIA = 8.67829
IYY - GLOBAL MOMENT OF INERTIA = 1.07821
IXY - GLOBAL MOMENT OF INERTIA = 1.93193
IP - GLOBAL POLAR MOM. OF INER.= 9.75650
XCG - X- CENTER OF GRAVITY = .765947
YCG - Y- CENTER OF GRAVITY = 2.27200
AXX - GLOBAL AREA MOMENT ABOUT-X= 2.52228
AYY - GLOBAL AREA MOMENT ABOUT-Y= .850323

SECTION MODULI INFORMATION

EXTREME FIBER DISTANCE IN PRINCIPLE-X = 1.24305
EXTREME FIBER DISTANCE IN PRINCIPLE-Y = -2.25000

$$S_x = I_{xx}/c_y = 2.94765/2.25 = 1.322 \text{ IN}^3 \leftarrow$$

$$S_y = I_{yy}/c_x = .4269/1.243 = .343 \text{ IN}^3$$

Sheet 77 of 80

4-22-16

PROJECT NAME = fg3197.txt

PROJECT NUMBER=1

Ixx - NEUTRAL MOMENT OF INERTIA = .530813
 Iyy - NEUTRAL MOMENT OF INERTIA = 2.54527
 Ixy - NEUTRAL MOMENT OF INERTIA = .507704
 Ip - POLAR MOMENT OF INERTIA = 3.07608
 Imax - MAXIMUM MOMENT OF INERTIA = 2.66599
 Imin - MINIMUM MOMENT OF INERTIA = .410091
 theta - PRINCIPLE TO LOCAL ANGLE = 13.3755
 rmax - MAXIMUM RADIUS OF GYRATION = 1.44824
 rmin - MINIMUM RADIUS OF GYRATION = .568003

AREA = 1.27110
 PERIMETER = 18.4255

I_{xy} (WEAK AXIS)
 I_{xx} (STRONG AXIS)

 XX - GLOBAL MOMENT OF INERTIA = 1.27719
 YY - GLOBAL MOMENT OF INERTIA = 10.6089
 XY - GLOBAL MOMENT OF INERTIA = 2.96096
 P - GLOBAL POLAR MOM. OF INER. = 11.8860
 CG - X- CENTER OF GRAVITY = 2.51869
 CG - Y- CENTER OF GRAVITY = .766285
 AX - GLOBAL AREA MOMENT ABOUT-X = .974022
 AY - GLOBAL AREA MOMENT ABOUT-Y = 3.20150

FG-3197 HORIZ

SECTION MODULI INFORMATION

EXTREME FIBER DISTANCE IN PRINCIPLE-X = -2.60893
 EXTREME FIBER DISTANCE IN PRINCIPLE-Y = -1.18105

HORIZ ORIENTATION!

$$S_{xx} = I_{xx}/c = 2.54527/2.60893 = .975 \text{ in}^3$$

$$S_{yy} = .530813/1.18105 = .293 \text{ in}^3$$

SHEET 700FB
 4/22/16

PROJECT NAME = fg3142.txt

PROJECT NUMBER=1

Ixx - NEUTRAL MOMENT OF INERTIA = .530813
 Iyy - NEUTRAL MOMENT OF INERTIA = 2.54527
 Ixy - NEUTRAL MOMENT OF INERTIA = .507704
 J - POLAR MOMENT OF INERTIA = 3.07608
 Imax - MAXIMUM MOMENT OF INERTIA = 2.66599
 Imin - MINIMUM MOMENT OF INERTIA = .410091
 beta - PRINCIPLE TO LOCAL ANGLE = 13.3755
 Rmax - MAXIMUM RADIUS OF GYRATION = 1.44824
 Rmin - MINIMUM RADIUS OF GYRATION = .568003

AREA = 1.27110
 PERIMETER = 18.4255

Ixy (WEAK AXIS)
 Ixx (STRONG AXIS)

Ix - GLOBAL MOMENT OF INERTIA = 1.27719
 Iy - GLOBAL MOMENT OF INERTIA = 10.6089
 Ixy - GLOBAL MOMENT OF INERTIA = 2.96096
 J - GLOBAL POLAR MOM. OF INER. = 11.8860
 XG - X- CENTER OF GRAVITY = 2.51869
 YG - Y- CENTER OF GRAVITY = .766285
 IX - GLOBAL AREA MOMENT ABOUT-X = .974022
 IY - GLOBAL AREA MOMENT ABOUT-Y = 3.20150

FG-3142

SECTION MODULI INFORMATION

TREME FIBER DISTANCE IN PRINCIPLE-X = -2.60893
 TREME FIBER DISTANCE IN PRINCIPLE-Y = -1.18105

HORIZ. ORIENTATION!

$$S_{xx} = I_{xx}/c = 2.54527/2.60893 = .975 \text{ IN}^3$$

$$S_{yy} = .530813/1.18105 = .293 \text{ IN}^3$$

SHEET 79 OF 89
 4/22/10

Single Die Report

Print Date: 1/18/2006

Sheet 80 of 92
0/22/14

Shape Number ----- FG3163
Description ----- DOOR FRAME HEADER

Height -----	2	Sx Front -----	1.6
Depth -----	4.5	Sx Back -----	1.547
Wt Per Ft -----	2.024	Sy Left -----	0
Temper -----	T5	Sy Right -----	0
Alloy -----	6063	Sx Mirror Front -----	0
Die No. -----	72737H	Sx Mirror Back -----	0
TN Die Num -----		ly Mirror Front -----	0
Vendor -----		ly Mirror Back -----	0
Primary Use -----		Ry Mirror Front -----	0
Project No. -----	UNLISTED	Ry Mirror Back -----	0
Total Perimeter -----	34.72	Rx -----	0
Cross Section -----	1.687	J Mirror Front -----	0
P&D Cross Section -----	0	J Mirror Back -----	0
Outside Perimeter -----	18.191	X Neutral -----	0
Exposed Perimeter -----	10.058	Y Neutral -----	0
Exposed Surface -----	OUSI	Profile Height -----	2
Die Factor -----	17	Profile Width -----	4.5
CCD -----		Date Drawn -----	6/28/1990
Class -----	H	Date Entered -----	12/19/1990
lx -----	3.625	Last Revision -----	A
ly -----	0.901	Revision Date -----	9/25/2000

3442.800

BY: _____ DATE: 4/22/14 SUBJECT: _____ SHEET NO. 81 OF 89

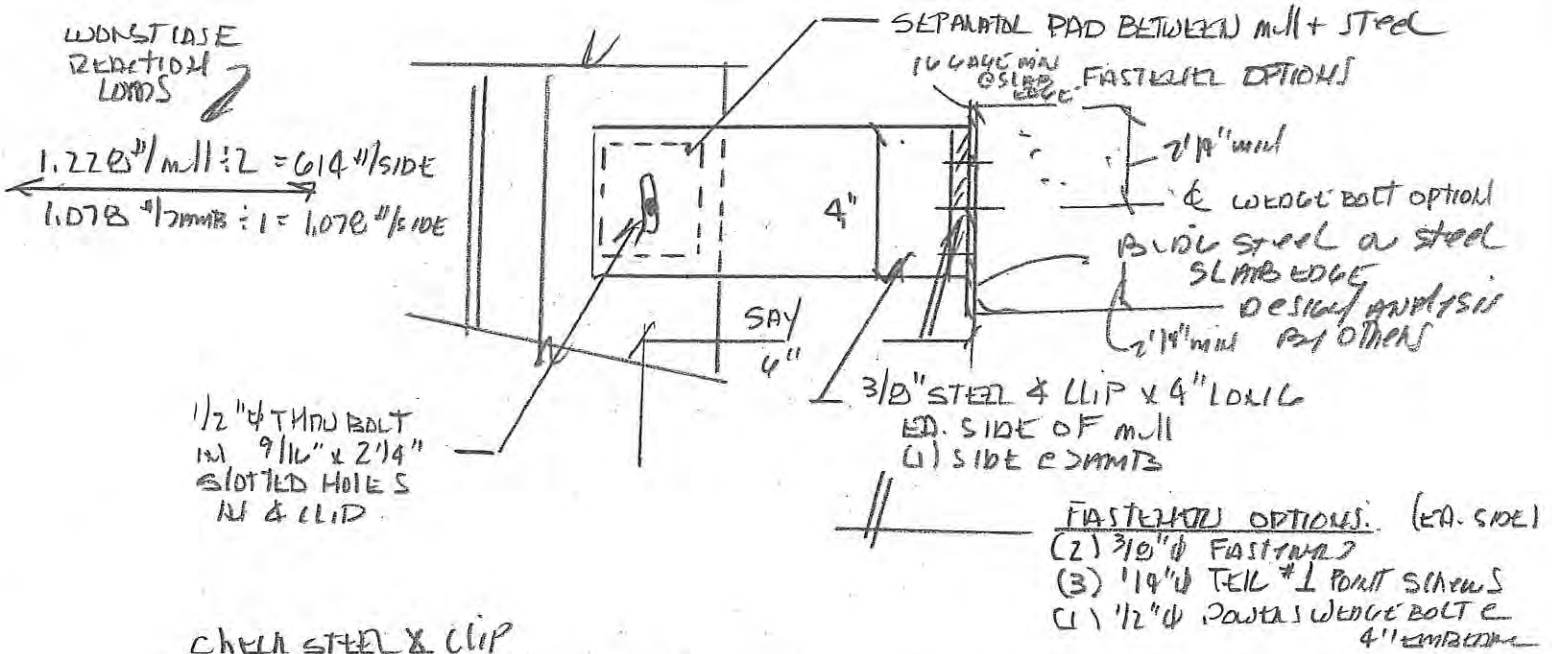
CLIENT: AD&W PROJECT: THE PARK DAUFORTH

(I 2017)

C. ANCHOR ANALYSIS

I. CURTAIN WALL ANCHORS

a) INTERMEDIATE WIND LOAD ANCHORS



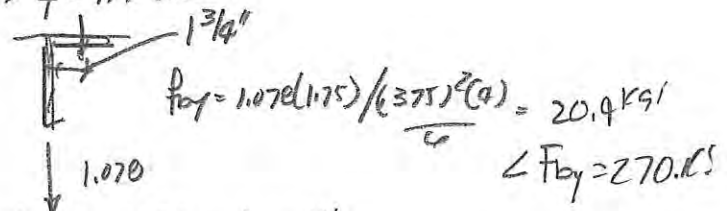
CHEEK STEEL & LIP

$$F_t = F_c = 1.078 \text{ k} / (0.375)(9-2.25) = 1.7 \text{ ksi}$$

$$1.22 \text{ k/ft} = 1.22 \text{ k} / \frac{0.375}{\sqrt{12}} = 67 < 200 \text{ O.K.}$$

$$\therefore F_t > F_c = 1.7 \text{ ksi} > 1.7 \text{ O.K.}$$

CHEEK RAILLED OF & LIP



CHEEK 1/2" Ø THRU BOLT

SHEAR = S = 1.078 k < 2008 # O.K.

BRACING OF MULL: $F_p = 1.078 / (0.5)(0.099) = 22.9 \text{ ksi} < F_p = 31 \text{ ksi O.K.}$

CHEEK FASTENERS: 1/2" Ø POWER WEDGE BOLT

$P_{allow} = P = 1.078 \text{ k} < P_{allow} = \frac{7.540}{4} (79)(1.01) = 1,269 \text{ # O.K.}$

(3) 1/4" Ø TELL SCREWS
 $P_{allow} = P = 1.078 / 3 = 359 \text{ #} < P_{allow} = 1.151 / 3 = 389 \text{ # O.K.}$

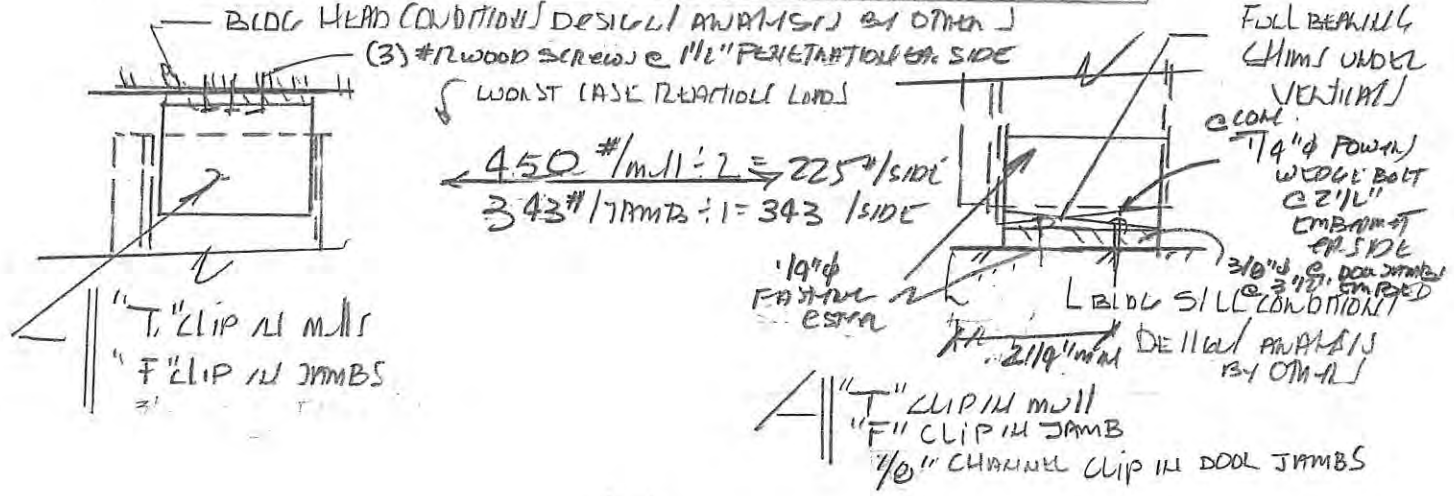
(2) 3/8" Ø FASTENER
 $P_{allow} = P = 1.078 / 2 = 539 \text{ #} < P_{allow} = 2294 \text{ # O.K.}$

BY: n DATE: 4/22/16 SUBJECT: _____ SHEET NO. 82 OF 89

CLIENT: AD+W PROJECT: THE PARK DANFORTH

(IC & 1 CONT)

B) CURTAIN WALL HEAD + SILL ANCHORS



CHECK ANCHOR CLIPS

CONST. =

$$f_b = m/s = \frac{393 \text{ k}(3")}{(1.25)(4)^2/6} = 3.1 \text{ ksi} < F_b = 120 \text{ k}$$

CONST. =

$$f_v = 9/10 = .393 / (1.25)(2") = 1.4 \text{ ksi} < F_v = 5.50 \text{ k}$$

CHECK BEARING OF CLIP ON MULL WALL

CONST. SAY
1 1/2" ENLARGEMENT OF
CLIP IN MULL

$$f_p = .393 / (1.25") (1.5") = 1.9 \text{ ksi} < F_p = 290 \text{ k}$$

CHECK SHEAR ON MULL LEG FROM CLIP

$$f_v = .393 / (1.099") (1.5") = 2.5 \text{ ksi} < F_v = 8.50 \text{ k}$$

CHECK FASTENERS

@ WOOD BLOCKING

(3) #12 WOOD SCREWS

$$SHEAR = S = 393/3 = 114 \text{ k} < S_{allow} = 145 \text{ k} \left(\frac{1.5"}{1.75"} \right) (1.6) = 198 \text{ k}$$

@ CONCRETE SLAB

1/4" PH POUND WEDGE BOLT

$$SHEAR = S = 393 \text{ k} < S_{allow} = \frac{2,000}{4} (1.72) = 360 \text{ k}$$

@ DOOR JAMBS SILL ANCHOR

3/8" PH POUND WEDGE BOLT @ 3" EMBEDMENT

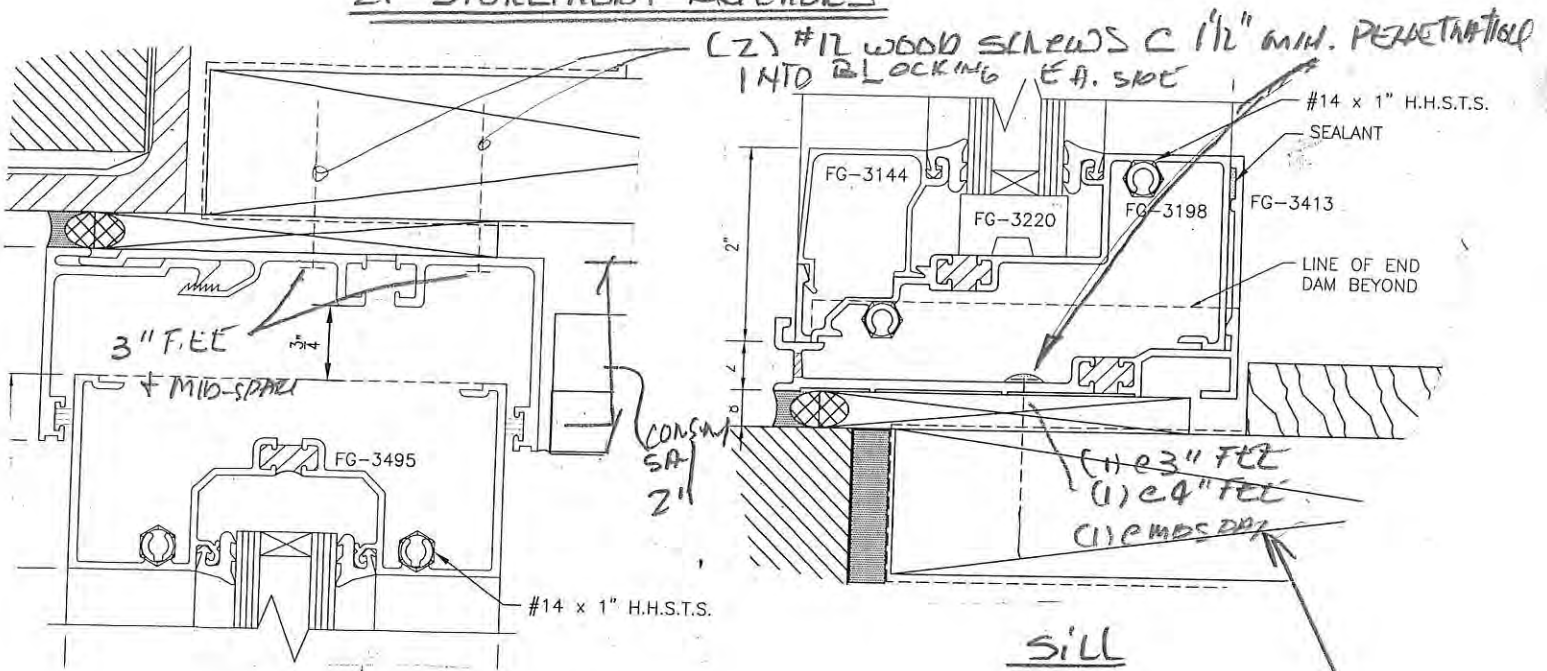
$$SHEAR = S = 393 \text{ k} < S_{allow} = \frac{4,820}{4} (1.43) = 518 \text{ k}$$

BY: ✓ DATE: 9/22/14 SUBJECT: _____ SHEET NO. 83 OF 89

CLIENT: AD+W PROJECT: THE PANK DAUFORTH

(I.C. CONT)

2. STOREFRONT ANCHORS



HEAD

SILL

WOODSTAKE REACTION LOADS →

$$\frac{397 \# / \text{in}}{2} = 199 \# / \text{SIDE}$$

$$\frac{225 \# / 7 \text{mm B}}{1} = 225 \# / \text{SIDE}$$

WOOD BLOCKING DESIGN ALLOWABLE BY OTHERS (TYP)

CHECK HEAD RECEIPT

$$f_b = m/s = \frac{225 \# (12")}{(.125") (12)} = 14.9 \text{ ksi} < F_b = 20 \text{ O.K.}$$

$$f_v = s/as = \frac{225 \#}{(.125") (6")} = 0.3 \text{ ksi} < F_v = 8.5 \text{ O.K.}$$

↳ CONTAIN. SM ONLY, C⁹ POSITIVE

CHECK #14 SCREW SPLINE SCREWS

$$SHEAR = S = \frac{225}{2} = 113 \# < 479 \# \text{ O.K.}$$

CHECK (2) #12 WOOD SCREWS W/ SIDE

$$SHEAR = S = \frac{225}{2} = 113 \# < 190 \# \text{ O.K.}$$

↳ see sheet 82

19. FASTENER LOAD TABLES
B. Unified Coarse Threads

SHEET 39 OF 89
4/22/116

TABLE 5

SAE Grade 2 Steel for Diameters Up thru 9/16" ASTM A 307 Steel for Diameters 5/8" and Over												
Nominal Thread Diameter & Thread/Inch	D Nominal Thread Diameter (Inch)	A(S) Tensile Stress Area (Sq. In.)	A(R) Thread Root Area (Sq. In.)	Allowable Tension (Pounds)	Allowable Shear		Bearing (Pounds)			Minimum Material Thickness to Equal Tensile Capacity of Fastener (In.)		
					Single (Pounds)	Double (Pounds)	1/8" St. A36	1/8" Al. 6063-T5	1/8" Al. 6063-T6	A36	6063-T5	6063-T6
#6-32	0.1380	0.0091	0.0078	269	133	267	1201	276	414	0.101	0.211	0.154
#8-32	0.1640	0.0140	0.0124	414	212	424	1427	328	492	0.128	0.280	0.202
#10-24	0.1900	0.0175	0.0152	518	260	520	1653	380	570	0.136	0.286	0.209
#12-24	0.2160	0.0242	0.0214	716	366	731	1879	432	648	0.159	0.344	0.248
1/4-20	0.2500	0.0318	0.0280	941	479	957	2175	500	750	0.180	0.385	0.279
5/16-18	0.3125	0.0524	0.0469	1551	802	1603	2719	625	938	0.225	0.492	0.354
3/8-16	0.3750	0.0775	0.0699	2254	1195	2389	3262	750	1125	0.268	0.637	0.425
7/16-14	0.4375	0.1063	0.0961	3146	1642	3285	3806	875	1313	0.311	0.740	0.494
1/2-13	0.5000	0.1419	0.1292	4200	2208	4416	4350	1000	1500	0.357	0.860	0.571
9/16-12	0.5625	0.1819	0.1664	5384	2844	5687	4894	1125	1688	0.399	0.965	0.640
5/8-11	0.6250	0.3068	0.2071	6136	3068	6136	5437	1250	1875	0.411	0.985	0.655
3/4-10	0.7500	0.4418	0.3091	8836	4418	8836	6525	1500	2250	0.484	1.170	0.766
7/8-9	0.8750	0.6013	0.4286	12026	6013	12026	7612	1750	2625	0.555	1.348	0.892
1-8	1.0000	0.7854	0.5630	15708	7854	15708	8700	2000	3000	0.627	1.526	1.010

SAE GRADE 2 ASTM A 307 For Diameters up thru 9/16":

F_u (Min. Ultimate Tensile Strength)	74,000 psi	60,000 psi*	$F_t = 0.40F_u$
F_t (Allowable Tensile Stress)	29,600 psi	20,000 psi*	Allowable tension = $0.40F_u [A(S)]$
F_v (Allowable Shear Stress)	17,090 psi	10,000 psi*	$F_v = \frac{0.40}{\sqrt{3}} F_u$

$$A(R) = 0.7854 \left(D - \frac{1.2269}{N} \right)^2$$

$$A(S) = 0.7854 \left(D - \frac{0.9743}{N} \right)^2$$

Allowable shear (Single) = $\frac{0.40}{\sqrt{3}} F_u [A(R)]$

TABLE 6

SAE Grade 5 Steel for Diameters Up thru 9/16" ASTM A 449 Steel for Diameters 5/8" and Over												
Nominal Thread Diameter & Thread/Inch	D Nominal Thread Diameter (Inch)	A(S) Tensile Stress Area (Sq. In.)	A(R) Thread Root Area (Sq. In.)	Allowable Tension (Pounds)	Allowable Shear		Bearing (Pounds)			Minimum Material Thickness to Equal Tensile Capacity of Fastener (In.)		
					Single (Pounds)	Double (Pounds)	1/8" St. A36	1/8" Al. 6063-T5	1/8" Al. 6063-T6	A36	6063-T6	
#6-32	0.1380	0.0091	0.0078	437	216	432	1201	276	414	0.144	0.231	
#8-32	0.1640	0.0140	0.0124	672	344	687	1427	328	492	0.188	0.308	
#10-24	0.1900	0.0175	0.0152	840	421	842	1653	380	570	0.195	0.313	
#12-24	0.2160	0.0242	0.0214	1162	593	1186	1879	432	648	0.232	0.377	
1/4-20	0.2500	0.0318	0.0280	1526	776	1552	2175	500	750	0.261	0.422	
5/16-18	0.3125	0.0524	0.0469	2515	1300	2599	2719	625	938	0.330	0.539	
3/8-16	0.3750	0.0775	0.0699	3720	1937	3874	3262	750	1125	0.396	0.65	
7/16-14	0.4375	0.1063	0.0961	5102	2663	5326	3806	875	1313	0.460	0.75	
1/2-13	0.5000	0.1419	0.1292	6811	3580	7161	4350	1000	1500	0.532	0.87	
9/16-12	0.5625	0.1819	0.1664	8731	4611	9223	4894	1125	1688	0.596	0.96	
5/8-11	0.6250	0.3068	0.2071	12149	6259	12517	5437	1250	1875	0.732	1.220	
3/4-10	0.7500	0.4418	0.3091	17495	9013	18025	6525	1500	2250	0.867	1.452	
7/8-9	0.8750	0.6013	0.4286	23811	12267	24533	7612	1750	2625	0.998	1.674	
1-8	1.0000	0.7854	0.5630	31102	16022	32044	8700	2000	3000	1.129	1.894	

SAE GRADE 5 ASTM A 449 For Diameters up thru 9/16":

F_u (Min. Ultimate Tensile Strength)	120,000 psi	120,000 psi*	$F_t = 0.40F_u$
F_t (Allowable Tensile Stress)	48,000 psi	39,600 psi*	Allowable tension = $0.40F_u [A(S)]$
F_v (Allowable Shear Stress)	27,713 psi	20,400 psi*	$F_v = \frac{0.40}{\sqrt{3}} F_u$

$$A(R) = 0.7854 \left(D - \frac{1.2269}{N} \right)^2$$

$$A(S) = 0.7854 \left(D - \frac{0.9743}{N} \right)^2$$

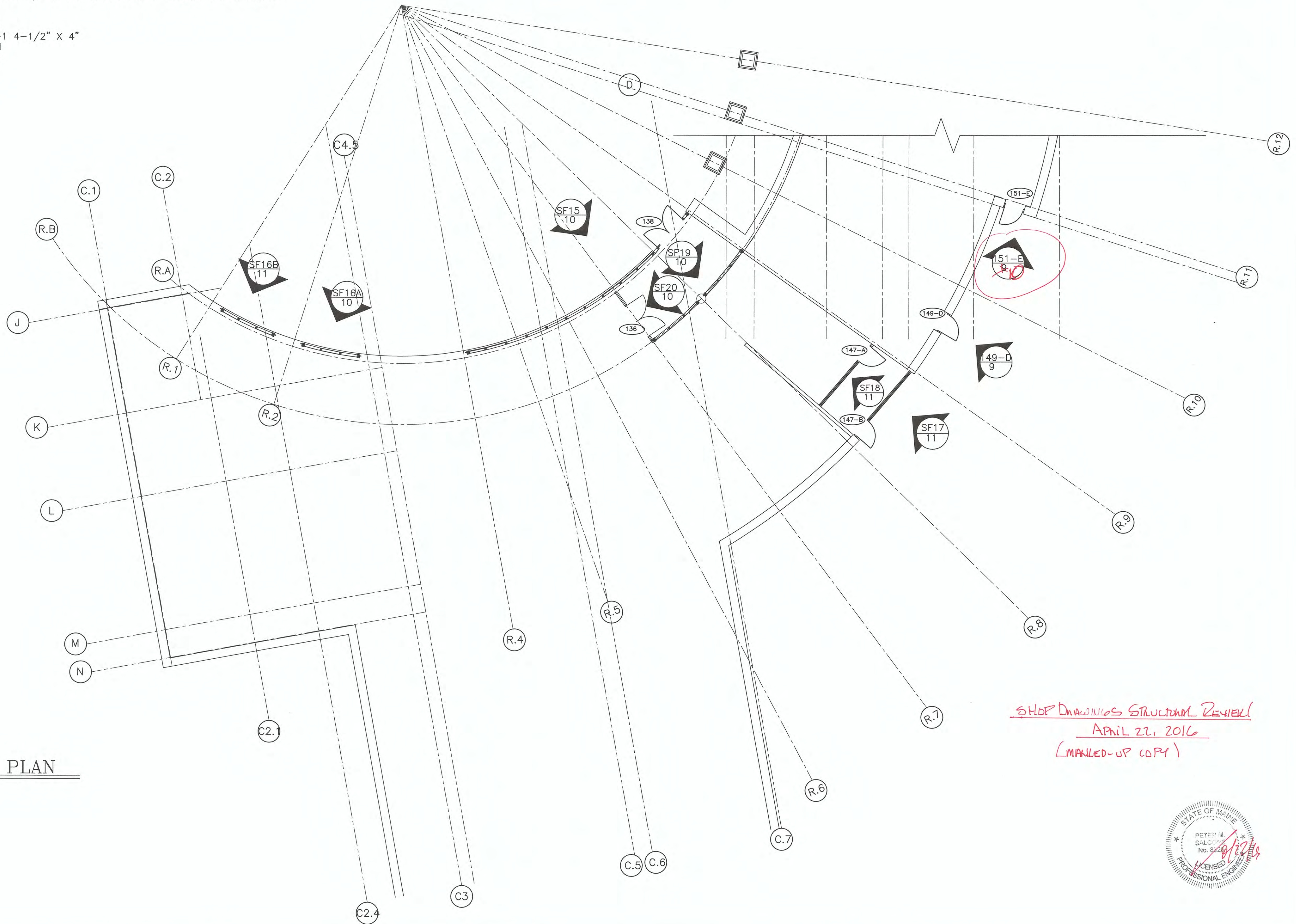
Allowable shear (Single) = $\frac{0.40}{\sqrt{3}} F_u [A(R)]$

For Diameters 5/8" and over: $A(S) = 0.7858D^2$

*For fasteners 5/8" diameter and greater, values, formulas and procedures used are taken from the AISC, "Manual of Steel Construction," 9th Edition. (See page #24 for additional notes.)

GENERAL NOTES:

1. ALL DIMENSIONS TO BE FIELD VERIFIED BEFORE FABRICATION.
2. ALUMINUM CURTAIN WALL SYSTEM ~ OLD CASTLE RELIANCE WALL 2-1/2" X 6".
3. ALUMINUM STOREFRONT SYSTEM ~
 EXTERIOR ~ OLDCASTLE FG-3000T CENTER SET 2" X 4 1/2"
 INTERIOR ~ OLDCASTLE FG-3000 NT CENTER SET 2" X 4 1/2" W/ 1/4" GLAZING ADAPTER.
4. ALUMINUM DOORS ~ OLDCASTLE MS-375 MEDIUM STILE W/ 10" BOTTOM RAIL & 4" MIDRAIL WHERE REQ'D.
5. ALUMINUM FINISH ~ DARK BRONZE ANODIZED
6. GLAZING ~ EXTERIOR ~ OPEN FOR 1" GLAZING
 INTERIOR ~ OPEN FOR 1/4" GLAZING
7. HARDWARE ~ BUTTS ~ 1-1/2 PR. OLDCASTLE BH-1 4-1/2" X 4"
 PUSH/PULL ~ OLDCASTLE PH20/PB21
 DEADLOCK ~ ADAMS RITE 1850A-050



LEVEL 1 FLOOR PLAN

SCALE: 1/8"=1'-0"

PG PORTLAND GLASS
 832 CONGRESS STREET
 PORTLAND, MAINE 04102

PHONE: 207-774-9851
 FAX: 207-774-9855

PG Portland Glass.

LAST REVISED: 2/25/16

JOB NAME: THE PARK DANFORTH

ABBREVIATIONS:

- | | |
|------------------------------|-------------------------|
| M.O.- MASONRY OPENING | F.S.- FRAME SIZE |
| F.O.- FINISHED OPENING | W.S.- WINDOW SIZE |
| D.O.- DOOR OPENING | REQ'D- REQUIRED |
| S.O.- STEEL OPENING | CLR.- CLEAR |
| A.F.F.- ABOVE FINISHED FLOOR | B.O.S.- BOTTOM OF STEEL |
| DIM.- DIMENSION | T.O.S.- TOP OF STEEL |
| CL- CENTER LINE | NTS - NOT TO SCALE |

SYMBOLS:

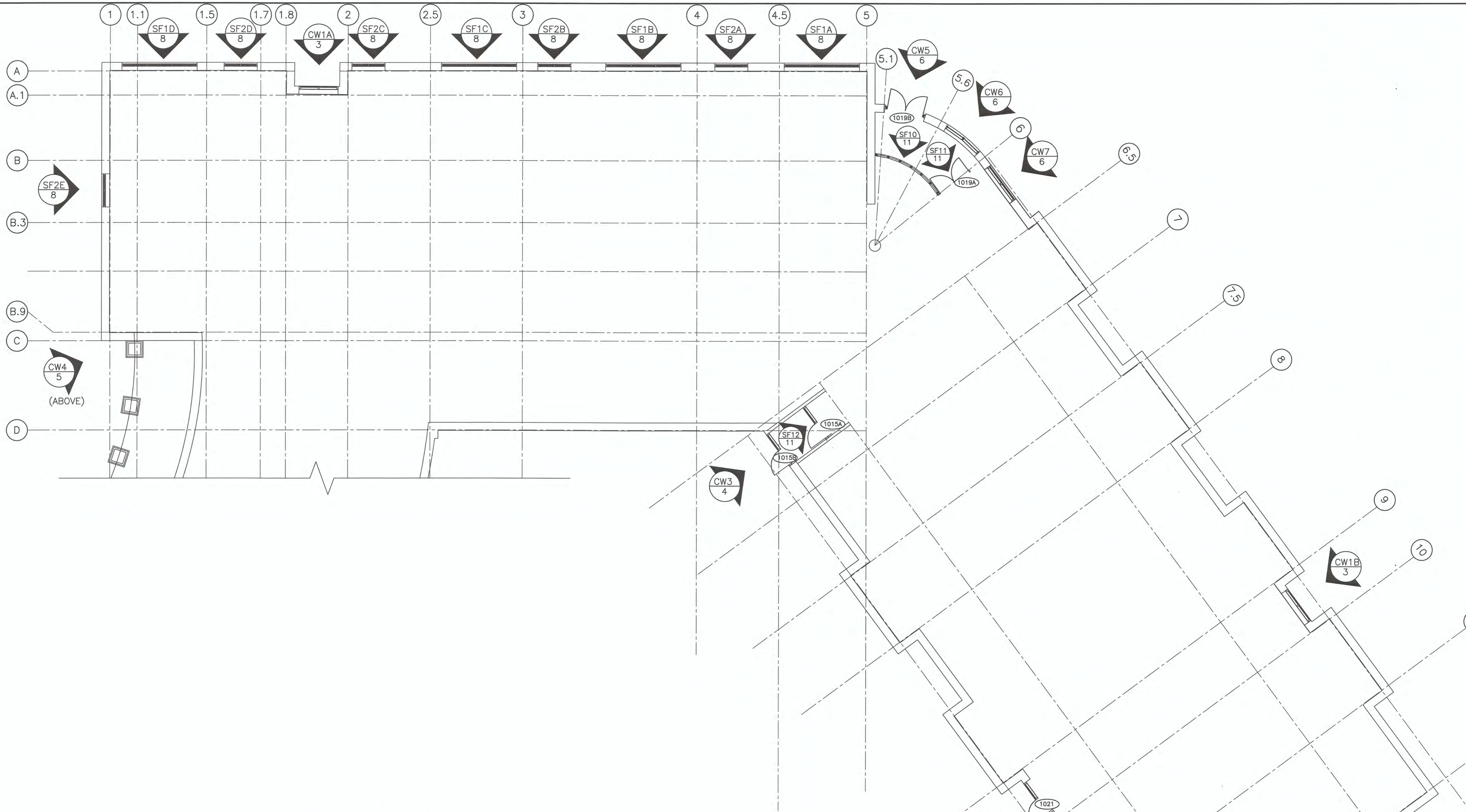
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- DETAIL NUMBER SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:

JOB NAME:	THE PARK DANFORTH	DATE:	2/25/16
ARCHITECT:	LAVALLEE BRENSINGER ARCHITECTS	SCALE:	AS NOTED
CONTRACTOR:		DRAWN BY:	W. PEASE

SHEET NUMBER	1 OF 33
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LEVEL 1 FLOOR PLAN
SCALE: 1/8"=1'-0"

PG PORTLAND GLASS
832 CONGRESS STREET
PORTLAND, MAINE 04102
PHONE: 207-774-9851
FAX: 207-774-9855

PG Portland Glass.

LAST REVISED: 2/25/16
JOB NAME: THE PARK DANFORTH



ABBREVIATIONS:

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DIM. - DIMENSION	T.O.S. - TOP OF STEEL
Q - CENTER LINE	NTS - NOT TO SCALE

SYMBOLS:

	ELEVATION NUMBER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER

REVISIONS:

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

JOB NAME: THE PARK DANFORTH

ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS

CONTRACTOR:

DATE: 2/25/16

SCALE: AS NOTED

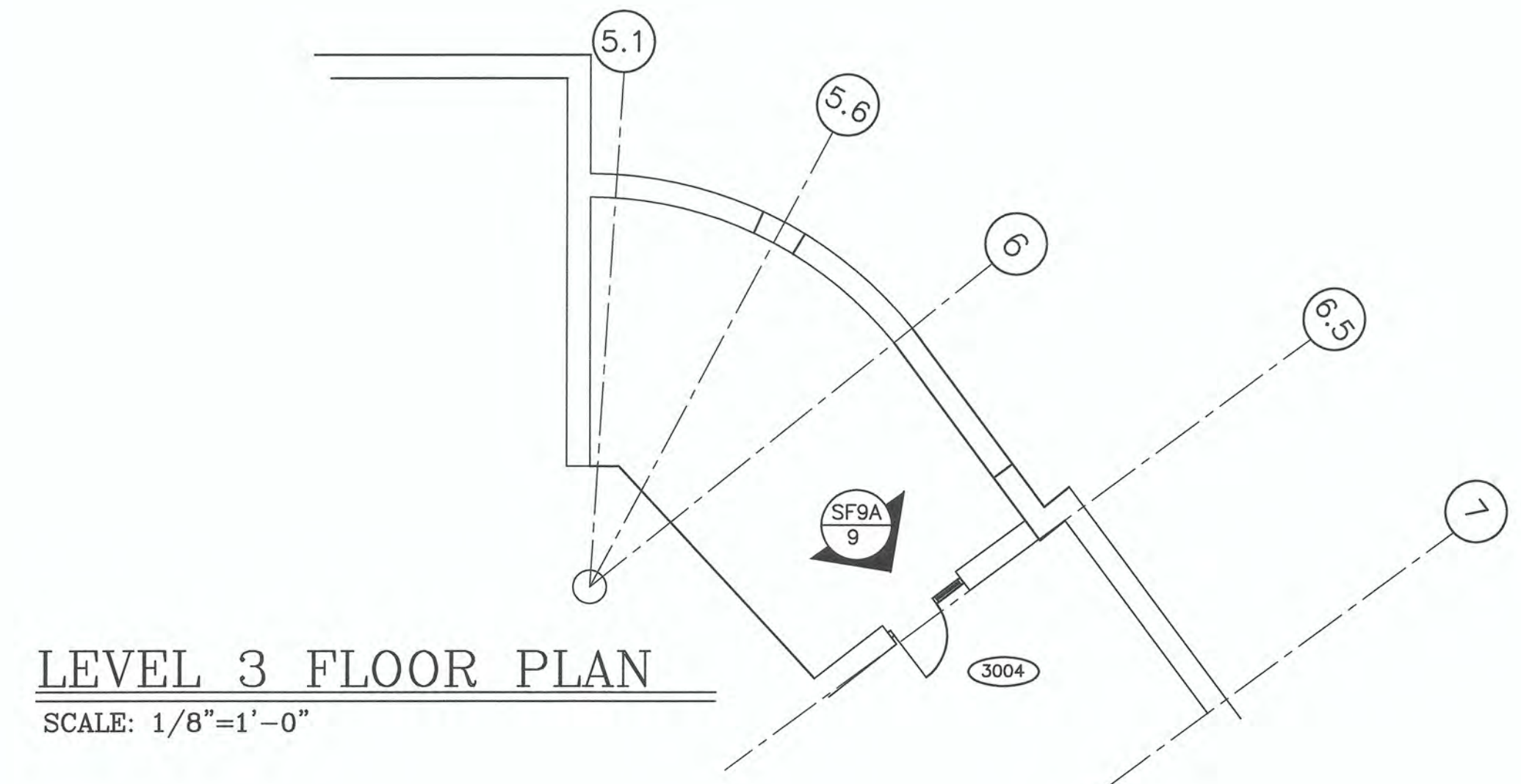
DRAWN BY: W. PEASE

SHEET NUMBER: 2 OF 33

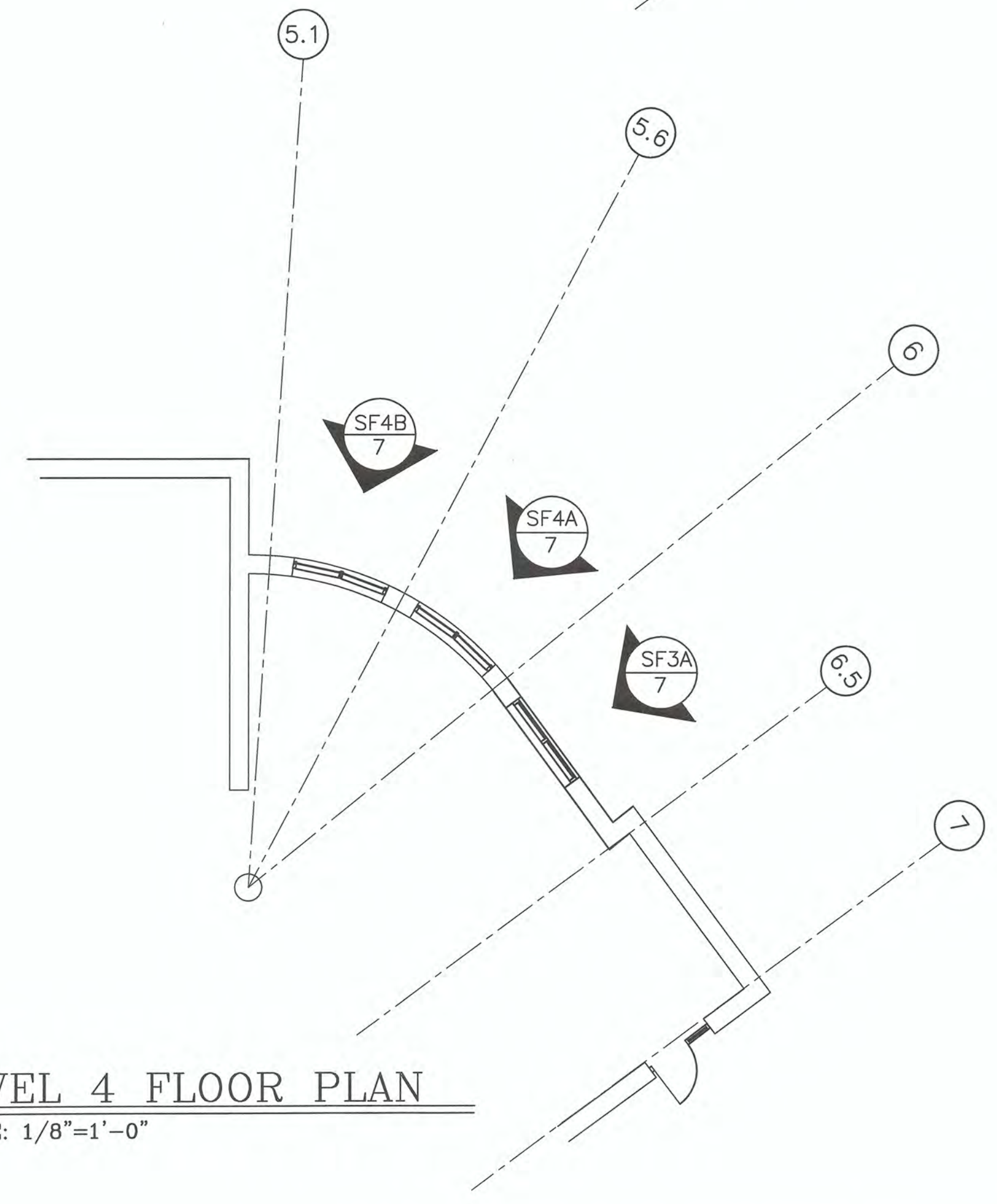
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PG Portland Glass.

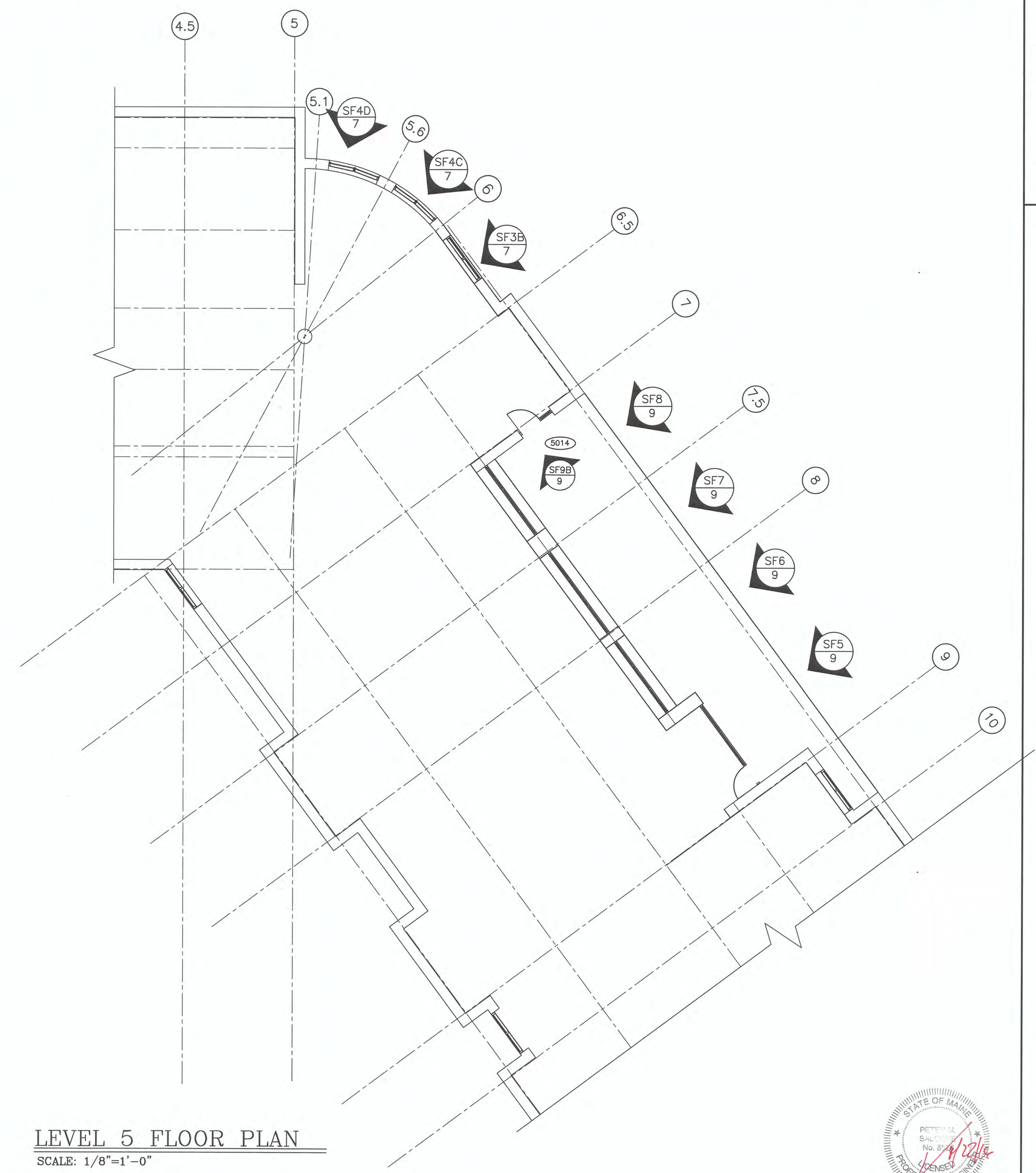
JOB NAME: THE PARK DANFORTH
 LAST REVISED: 2/25/16



LEVEL 3 FLOOR PLAN
 SCALE: 1/8"=1'-0"



LEVEL 4 FLOOR PLAN
 SCALE: 1/8"=1'-0"



LEVEL 5 FLOOR PLAN
 SCALE: 1/8"=1'-0"



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S.O.- STEEL OPENING	CLR.- CLEAR
A.F.F.- ABOVE FINISHED FLOOR	B.O.S.- BOTTOM OF STEEL
DIM.- DIMENSION	T.O.S.- TOP OF STEEL
Q- CENTER LINE	NTS - NOT TO SCALE

SYMBOLS:

	ELEVATION NUMBER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:

JOB NAME: THE PARK DANFORTH

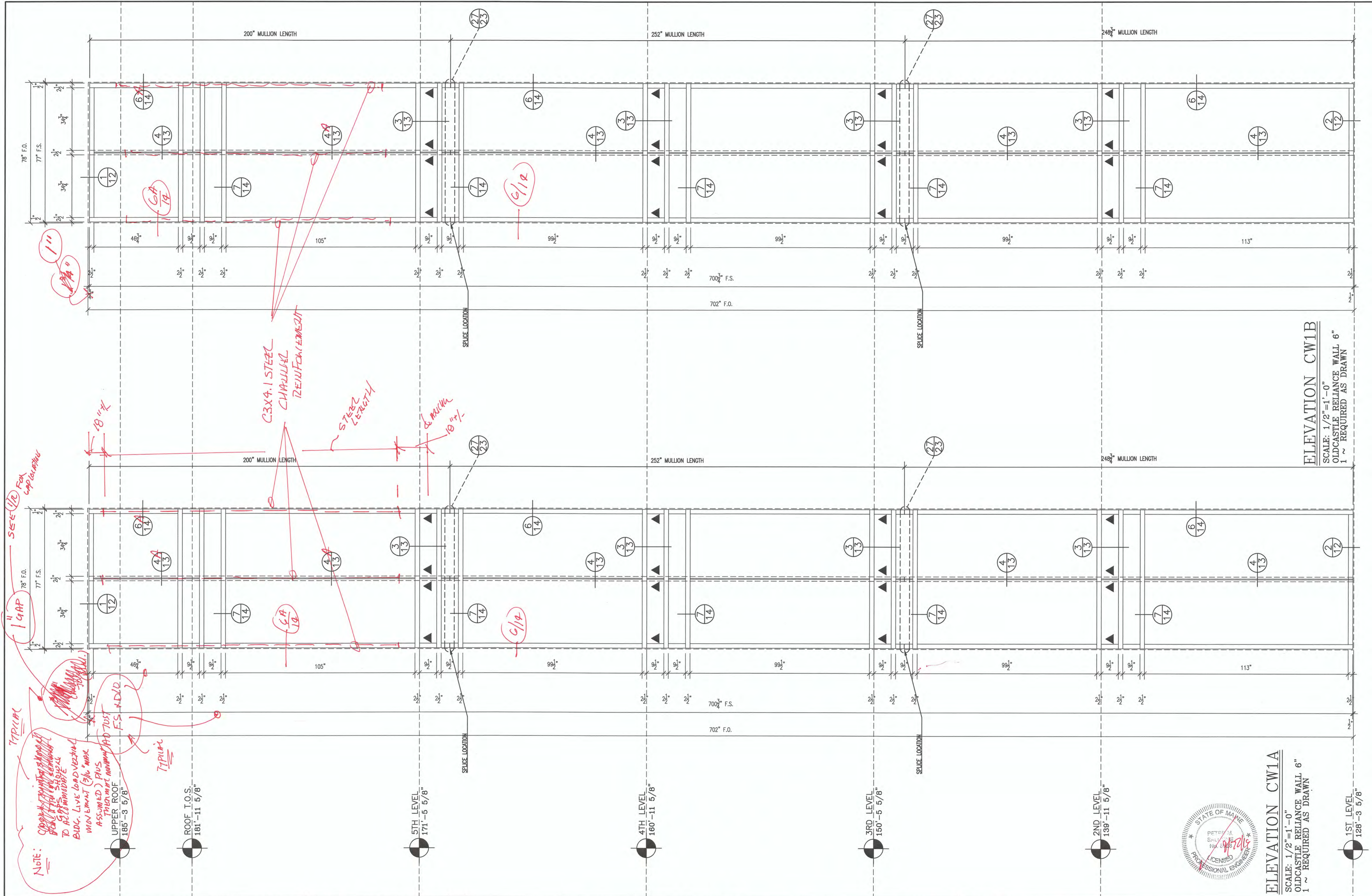
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CONTRACTOR:

DATE: 2/25/16

SCALE: AS NOTED

DRAWN BY: W. PEASE

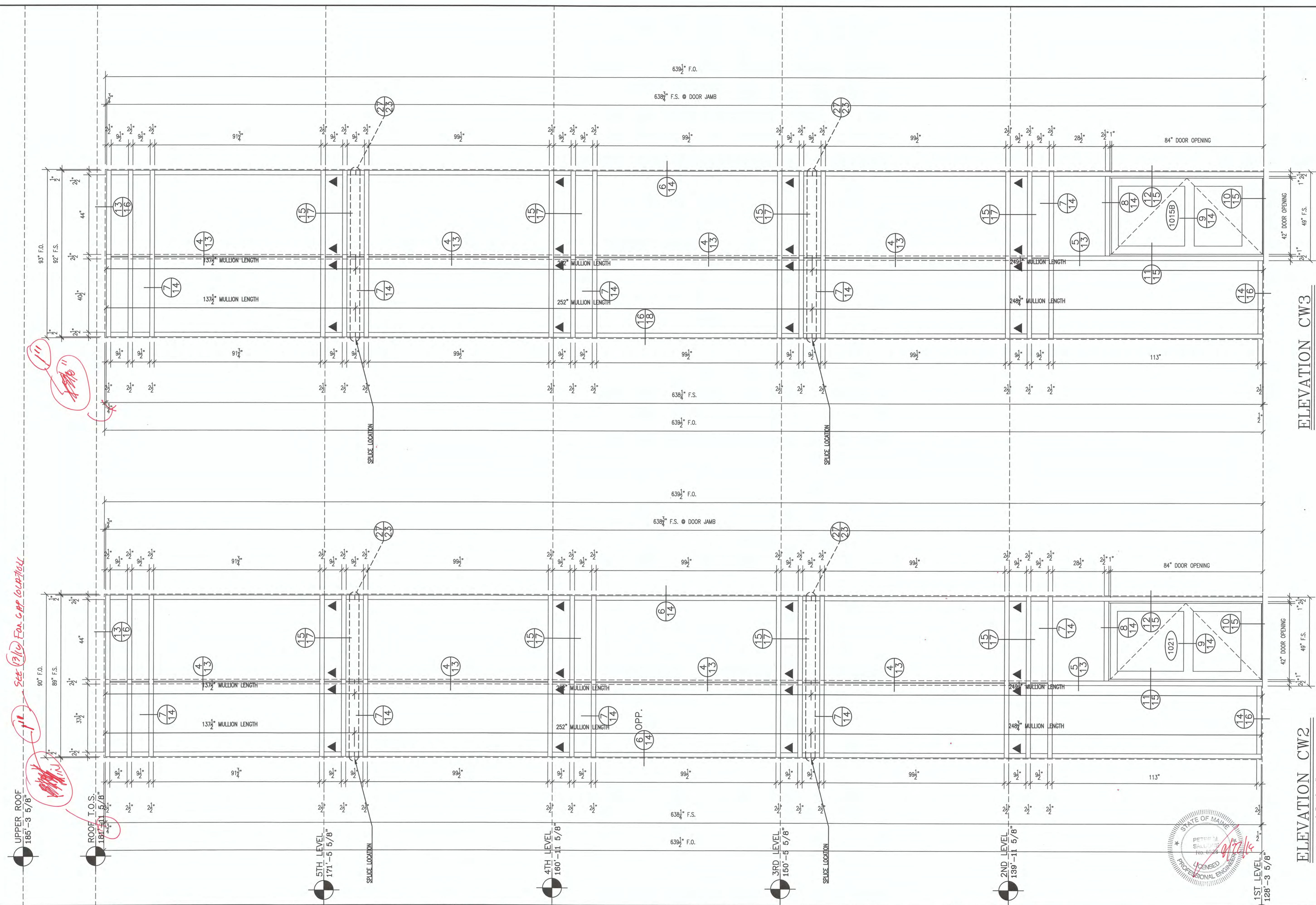


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 FAX: 207-774-9855

PG Portland Glass.

JOB NAME: THE PARK DANFORTH
 LAST REVISED: 2/25/16

ABBREVIATIONS: M.O. - MASONRY OPENING F.O. - FINISHED OPENING D.O. - DOOR OPENING S.O. - STEEL OPENING A.F.F. - ABOVE FINISHED FLOOR DIM. - DIMENSION C - CENTER LINE F.S. - FRAME SIZE W.S. - WINDOW SIZE REQ'D - REQUIRED CLR. - CLEAR B.O.S. - BOTTOM OF STEEL T.O.S. - TOP OF STEEL NTS - NOT TO SCALE		SYMBOLS: ELEVATION NUMBER SHEET NUMBER DETAIL NUMBER SHEET NUMBER		REVISIONS: NO. DATE: DESCRIPTION: NO. DATE: DESCRIPTION:		JOB NAME: THE PARK DANFORTH		DATE: 2/25/16		SHEET NUMBER 3 OF 33	
				ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS		ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS		SCALE: AS NOTED			
				CONTRACTOR:		CONTRACTOR:		DRAWN BY: W. PEASE			



ELEVATION CW3
 SCALE: 1/2"=1'-0"
 OLDCASTLE RELIANCE WALL 6"
 1 ~ REQUIRED AS DRAWN

ELEVATION CW2
 SCALE: 1/2"=1'-0"
 OLDCASTLE RELIANCE WALL 6"
 1 ~ REQUIRED AS DRAWN

SEE (12) FOR CORR. CAPTION

UPPER ROOF
185'-3 5/8"
 ROOF I.O.S.
181'-11 5/8"



ABBREVIATIONS:

- | | |
|-------------------------------|--------------------------|
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| D.O. - DOOR OPENING | REQ'D - REQUIRED |
| S.O. - STEEL OPENING | CLR. - CLEAR |
| A.F.F. - ABOVE FINISHED FLOOR | B.O.S. - BOTTOM OF STEEL |
| DIM. - DIMENSION | T.O.S. - TOP OF STEEL |
| C - CENTER LINE | NTS - NOT TO SCALE |

SYMBOLS:

- ELEVATION NUMBER SHEET NUMBER
- DETAIL NUMBER SHEET NUMBER

REVISIONS:

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

JOB NAME:	THE PARK DANFORTH	DATE:	2/25/16
ARCHITECT:	LAVALLEE BRENSINGER ARCHITECTS	SCALE:	AS NOTED
CONTRACTOR:		DRAWN BY:	W. PEASE

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 PORTLAND, MAINE 04102
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 FAX: 207-774-9855

PG Portland Glass.

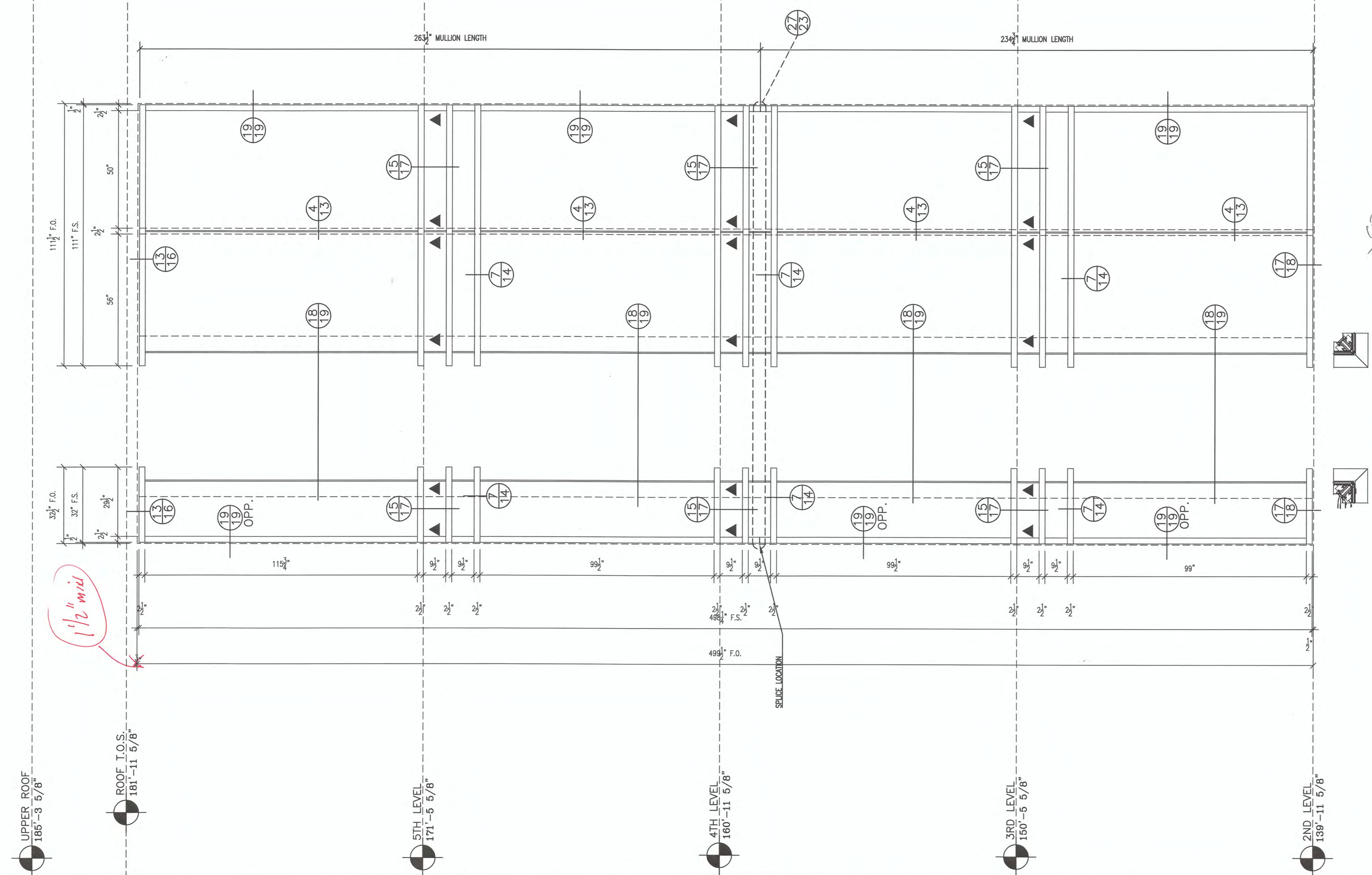
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JOB NAME: THE PARK DANFORTH

PG PORTLAND GLASS
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 PORTLAND, MAINE 04102
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 FAX: 207-774-9855

PG Portland Glass.

JOB NAME: THE PARK DANFORTH
 LAST REVISED: 2/25/16



ELEVATION CW4
 SCALE: 1/2" = 1'-0"
 OLDCASTLE RELIANCE WALL 6"
 1 ~ REQUIRED AS DRAWN



ABBREVIATIONS:

- M.O. - MASONRY OPENING
- F.O. - FINISHED OPENING
- D.O. - DOOR OPENING
- S.O. - STEEL OPENING
- A.F.F. - ABOVE FINISHED FLOOR
- DIM. - DIMENSION
- CL - CENTER LINE
- F.S. - FRAME SIZE
- W.S. - WINDOW SIZE
- REQ'D - REQUIRED
- CLR. - CLEAR
- B.O.S. - BOTTOM OF STEEL
- T.O.S. - TOP OF STEEL
- NTS - NOT TO SCALE

SYMBOLS:

- ELEVATION NUMBER SHEET NUMBER
- DETAIL NUMBER SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:

JOB NAME:	THE PARK DANFORTH
ARCHITECT:	LAVALLEE BRENSINGER ARCHITECTS
CONTRACTOR:	

DATE:	2/25/16
SCALE:	AS NOTED
DRAWN BY:	W. PEASE

SHEET NUMBER	5 OF 33
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PG Portland Glass.

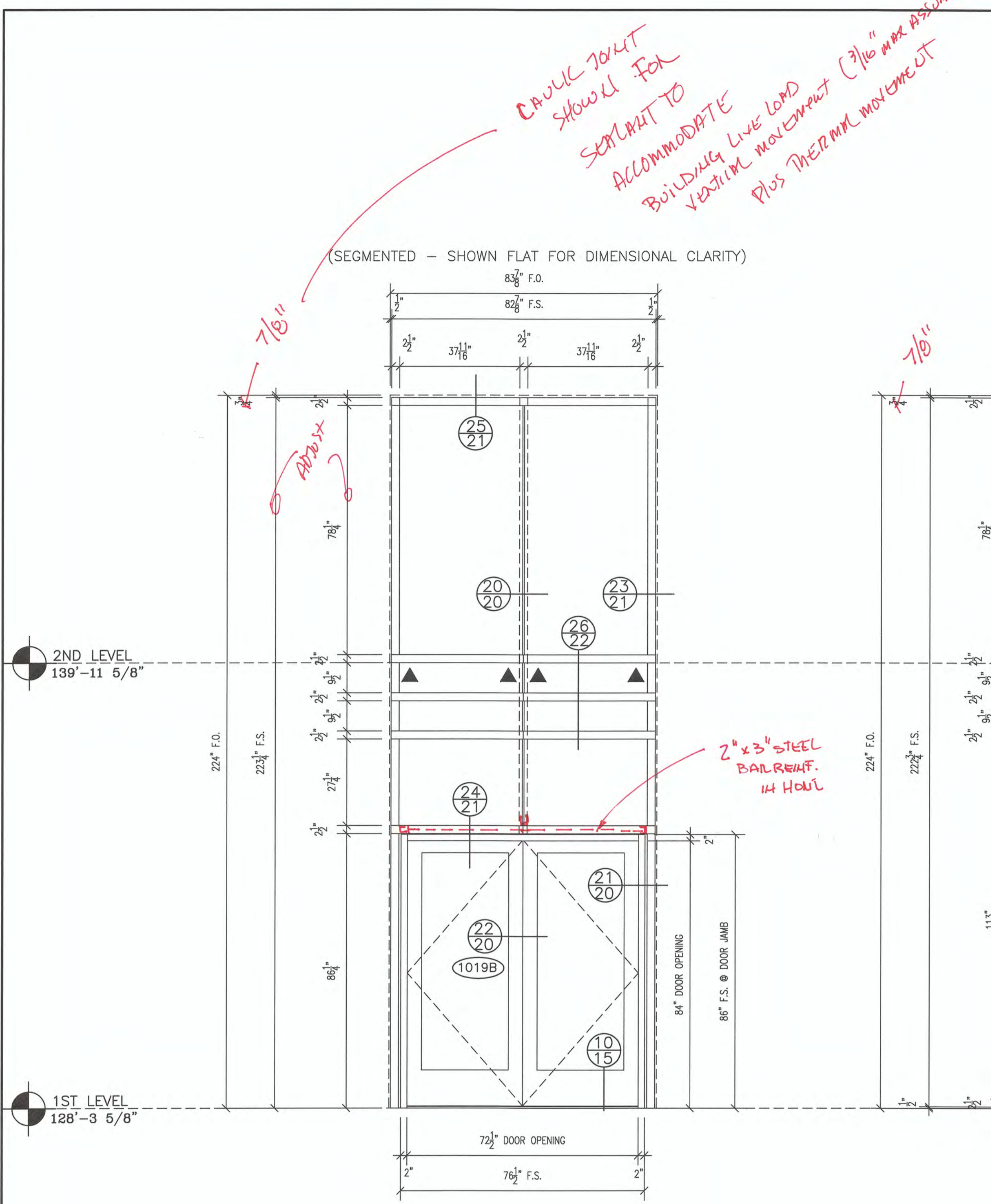
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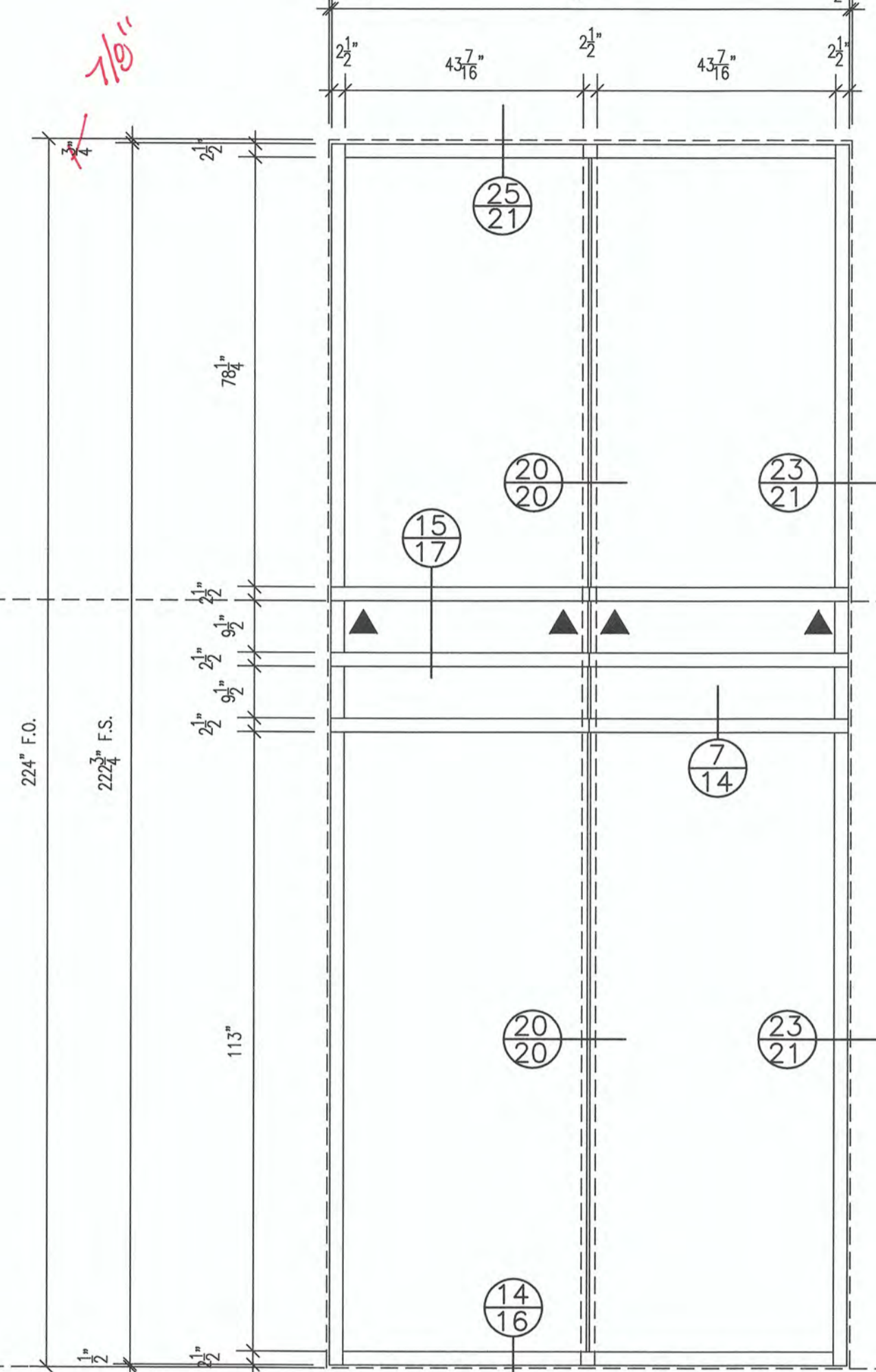
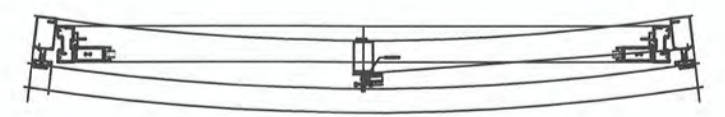
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(SEGMENTED - SHOWN FLAT FOR DIMENSIONAL CLARITY)

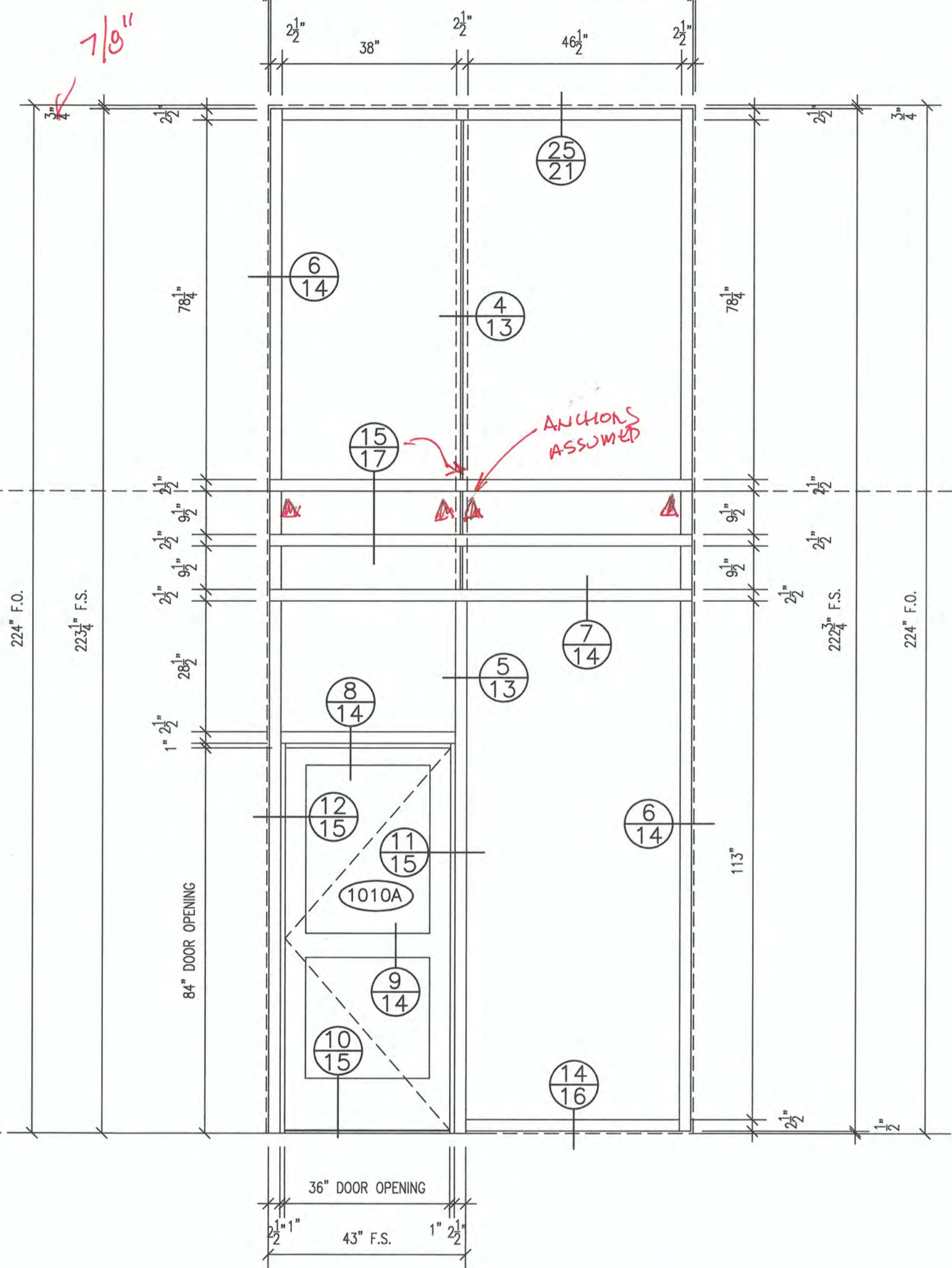
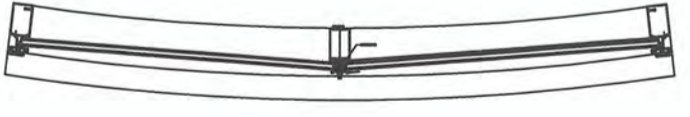
93" F.O.



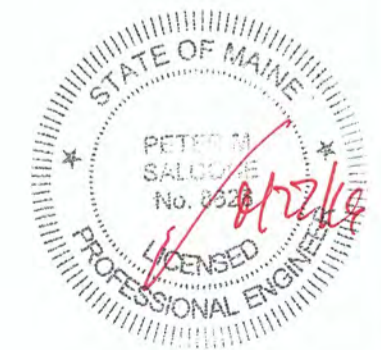
ELEVATION CW5
 SCALE: 1/2"=1'-0"
 OLDCASTLE RELIANCE WALL 6"
 1 ~ REQUIRED AS DRAWN



ELEVATION CW6
 SCALE: 1/2"=1'-0"
 OLDCASTLE RELIANCE WALL 6"
 1 ~ REQUIRED AS DRAWN



ELEVATION CW7
 SCALE: 1/2"=1'-0"
 OLDCASTLE RELIANCE WALL 6"
 1 ~ REQUIRED AS DRAWN



ABBREVIATIONS:

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F.O. - FINISHED OPENING	W.S. - WINDOW SIZE
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S.O. - STEEL OPENING	CLR. - CLEAR
A.F.F. - ABOVE FINISHED FLOOR	B.O.S. - BOTTOM OF STEEL
DIM. - DIMENSION	T.O.S. - TOP OF STEEL
C - CENTER LINE	NTS - NOT TO SCALE

SYMBOLS:

	ELEVATION NUMBER
	DETAIL NUMBER
	SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:

JOB NAME: THE PARK DANFORTH

ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS

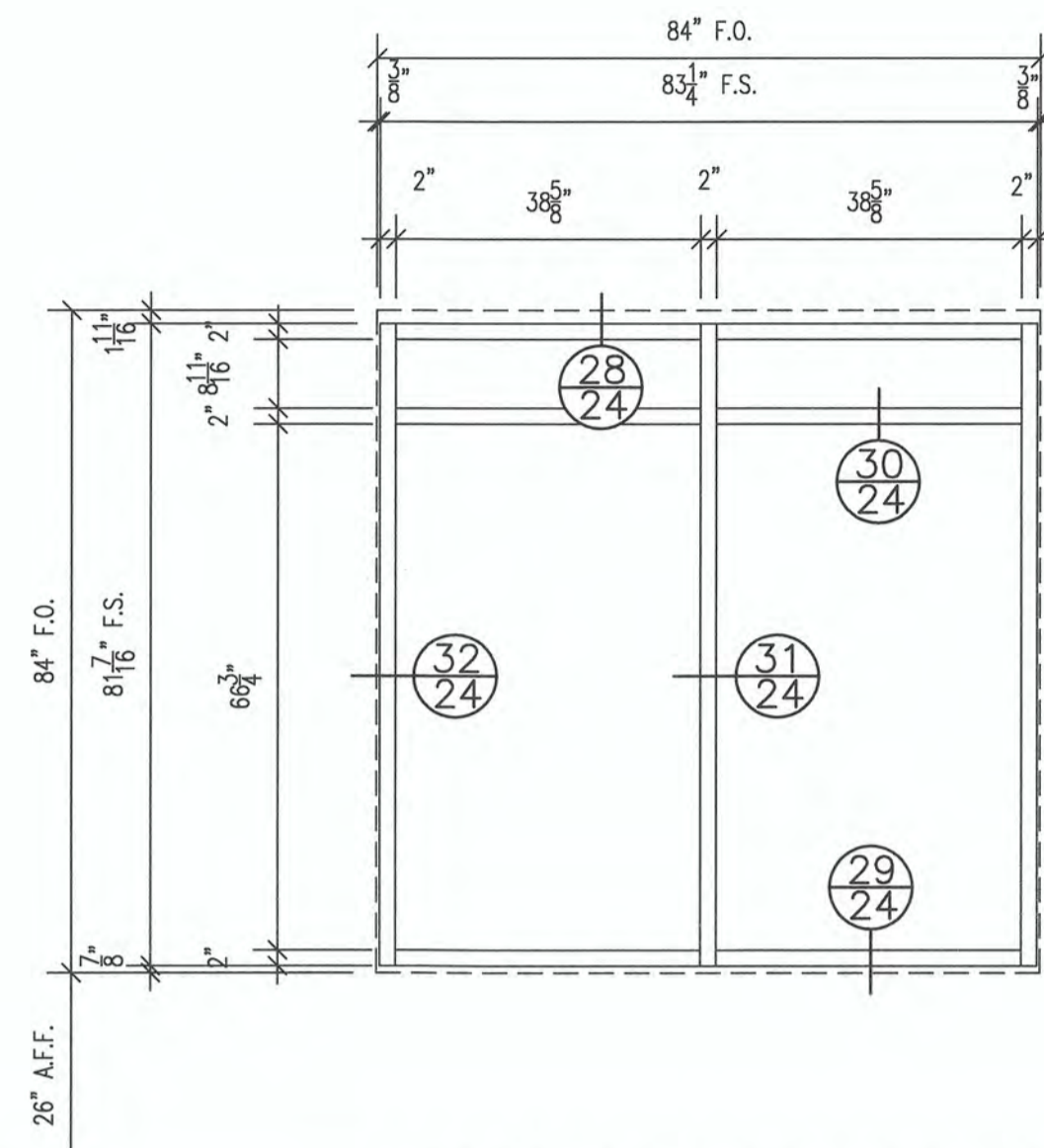
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DATE: 2/25/16

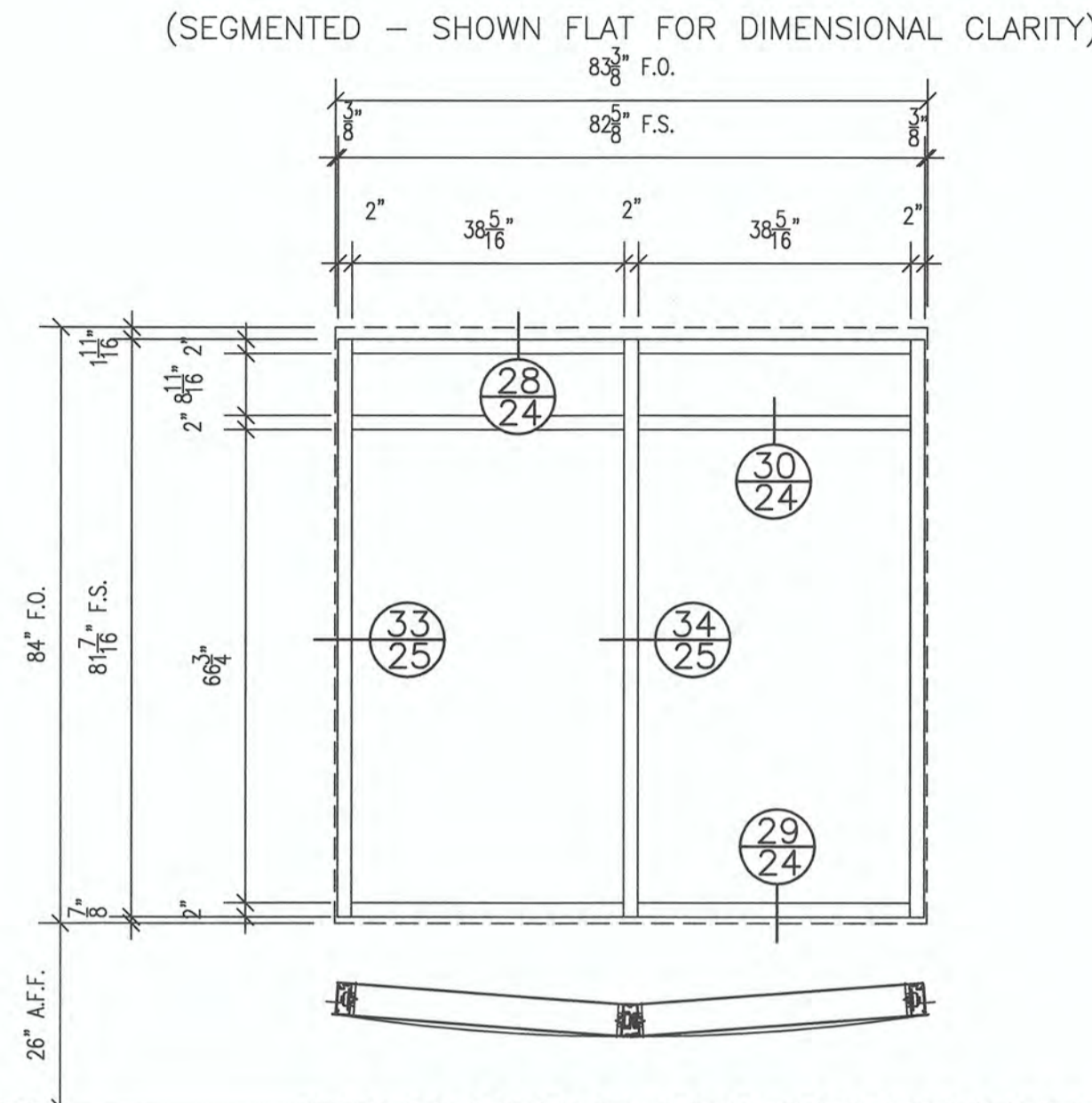
SCALE: AS NOTED

DRAWN BY: W. PEASE

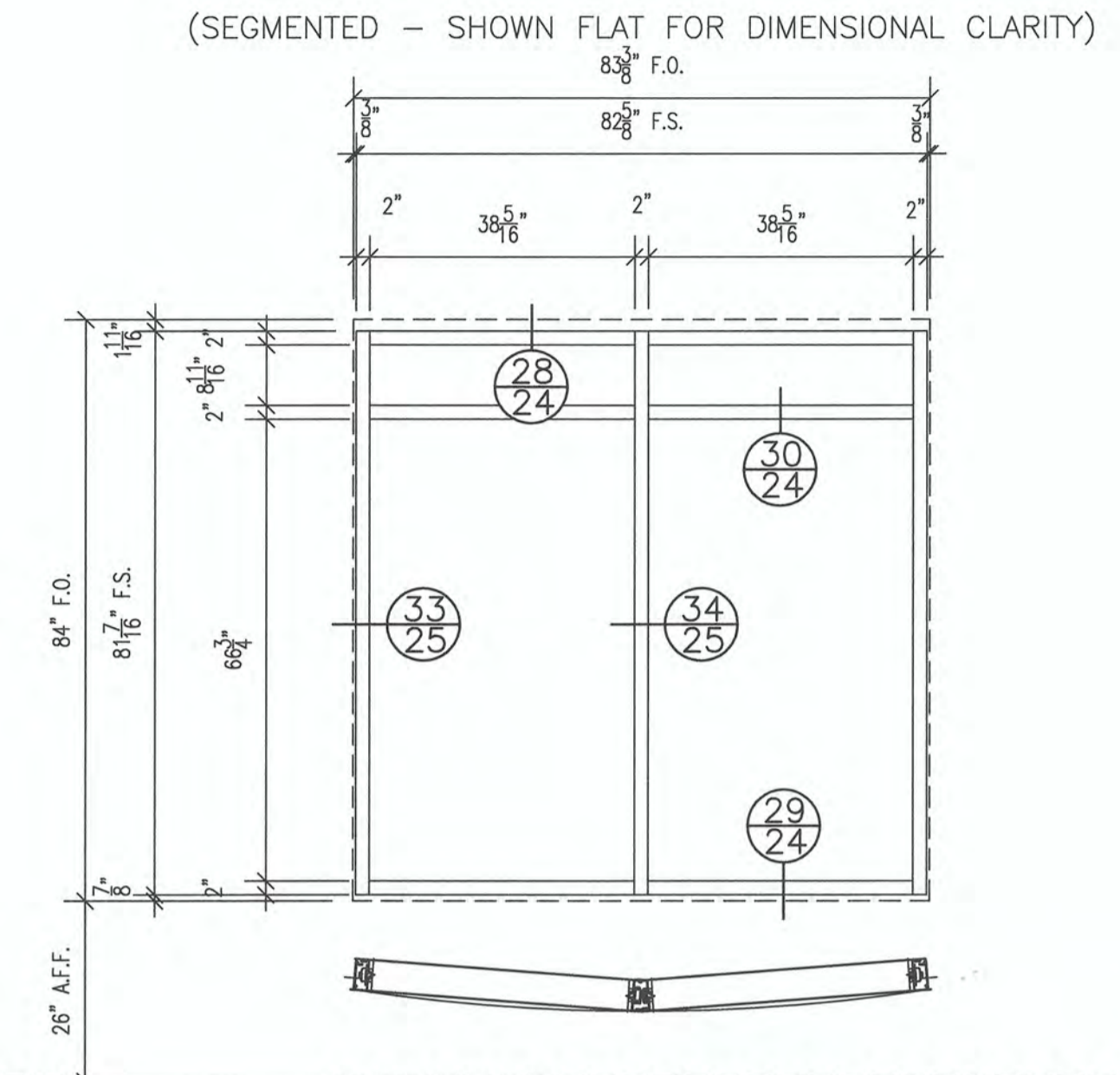
SHEET NUMBER: 6 OF 33



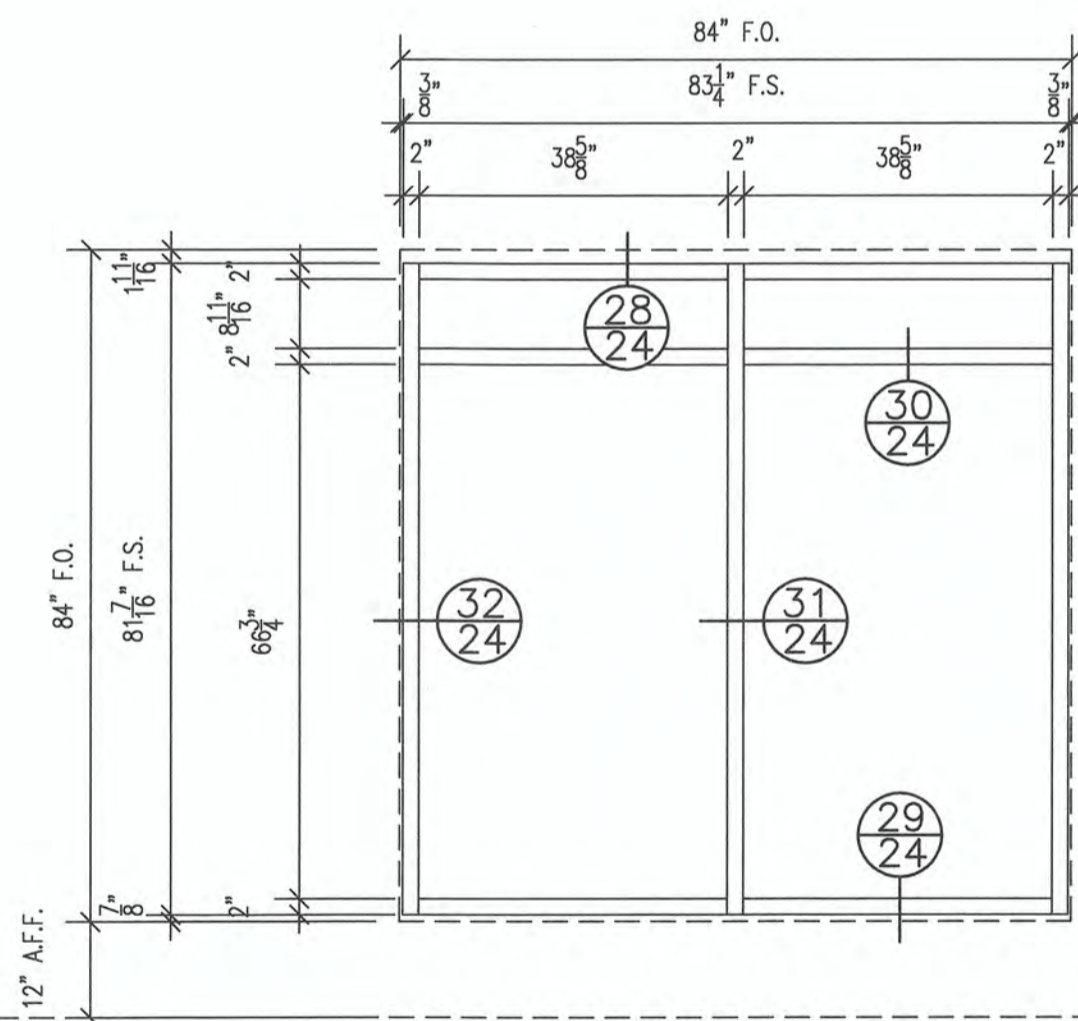
ELEVATION SF3B
SCALE: 1/2"=1'-0"
OLDCASTLE FG-3000
1 ~ REQUIRED AS DRAWN



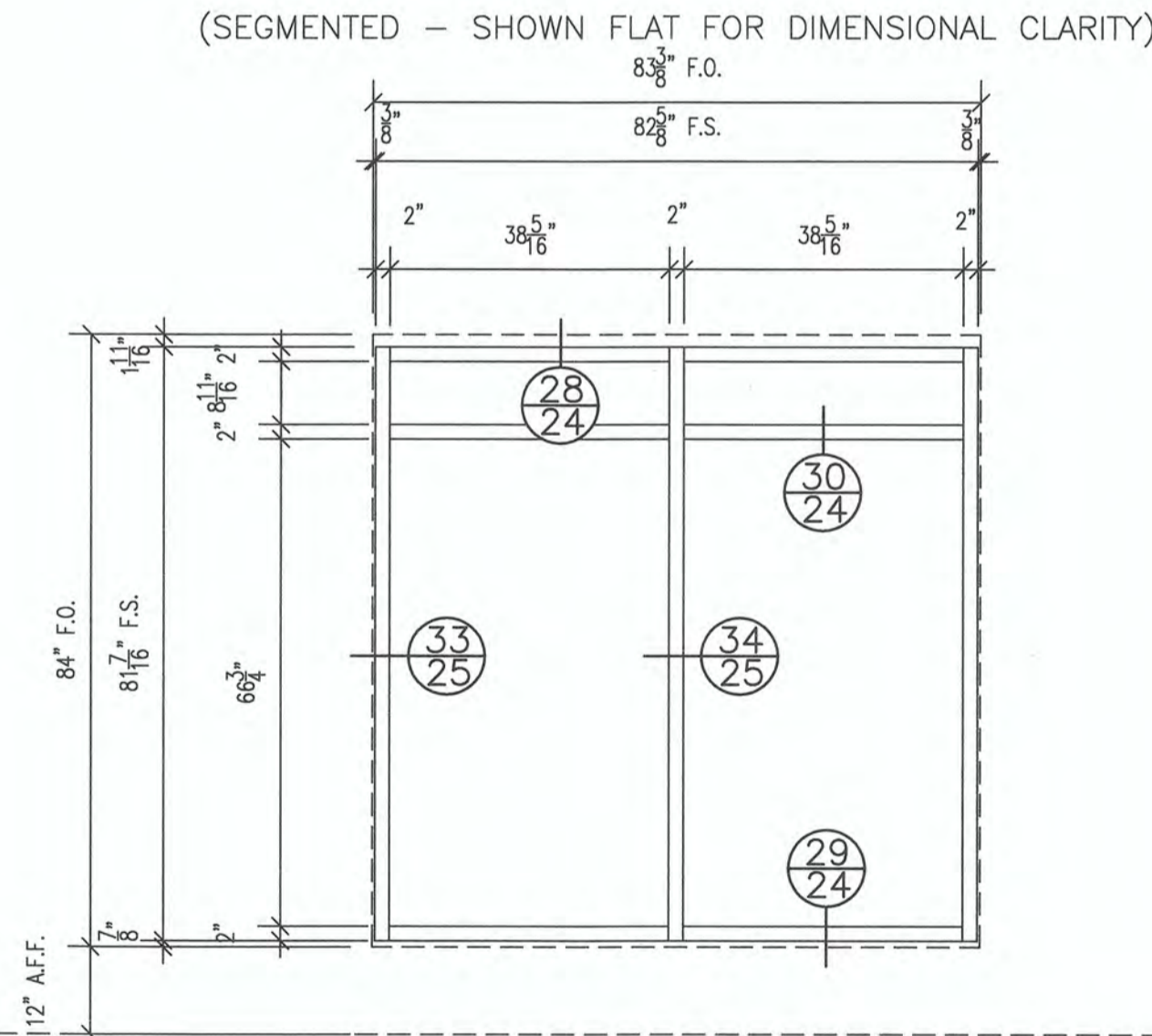
ELEVATION SF4C
SCALE: 1/2"=1'-0"
OLDCASTLE FG-3000
1 ~ REQUIRED AS DRAWN



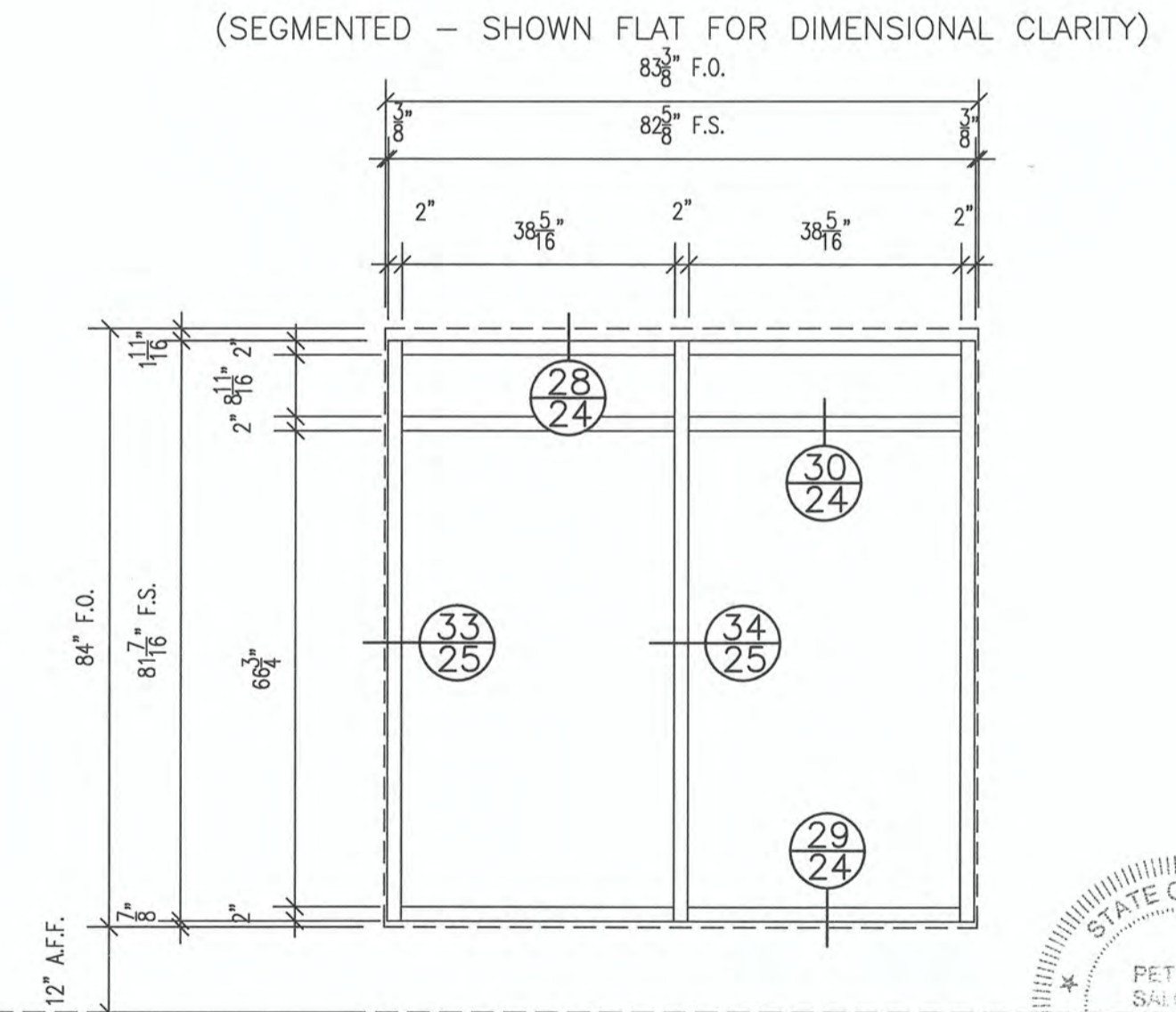
ELEVATION SF4D
SCALE: 1/2"=1'-0"
OLDCASTLE FG-3000
1 ~ REQUIRED AS DRAWN



ELEVATION SF3A
SCALE: 1/2"=1'-0"
OLDCASTLE FG-3000
1 ~ REQUIRED AS DRAWN



ELEVATION SF4A
SCALE: 1/2"=1'-0"
OLDCASTLE FG-3000
1 ~ REQUIRED AS DRAWN



ELEVATION SF4B
SCALE: 1/2"=1'-0"
OLDCASTLE FG-3000
1 ~ REQUIRED AS DRAWN



5TH LEVEL
171'-5 5/8"

4TH LEVEL
160'-11 5/8"

ABBREVIATIONS:

M.O. - MASONRY OPENING
F.O. - FINISHED OPENING
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S.O. - STEEL OPENING
A.F.F. - ABOVE FINISHED FLOOR
DIM. - DIMENSION
C- CENTER LINE

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REQ'D - REQUIRED
CLR. - CLEAR
B.O.S. - BOTTOM OF STEEL
T.O.S. - TOP OF STEEL
NTS - NOT TO SCALE

SYMBOLS:

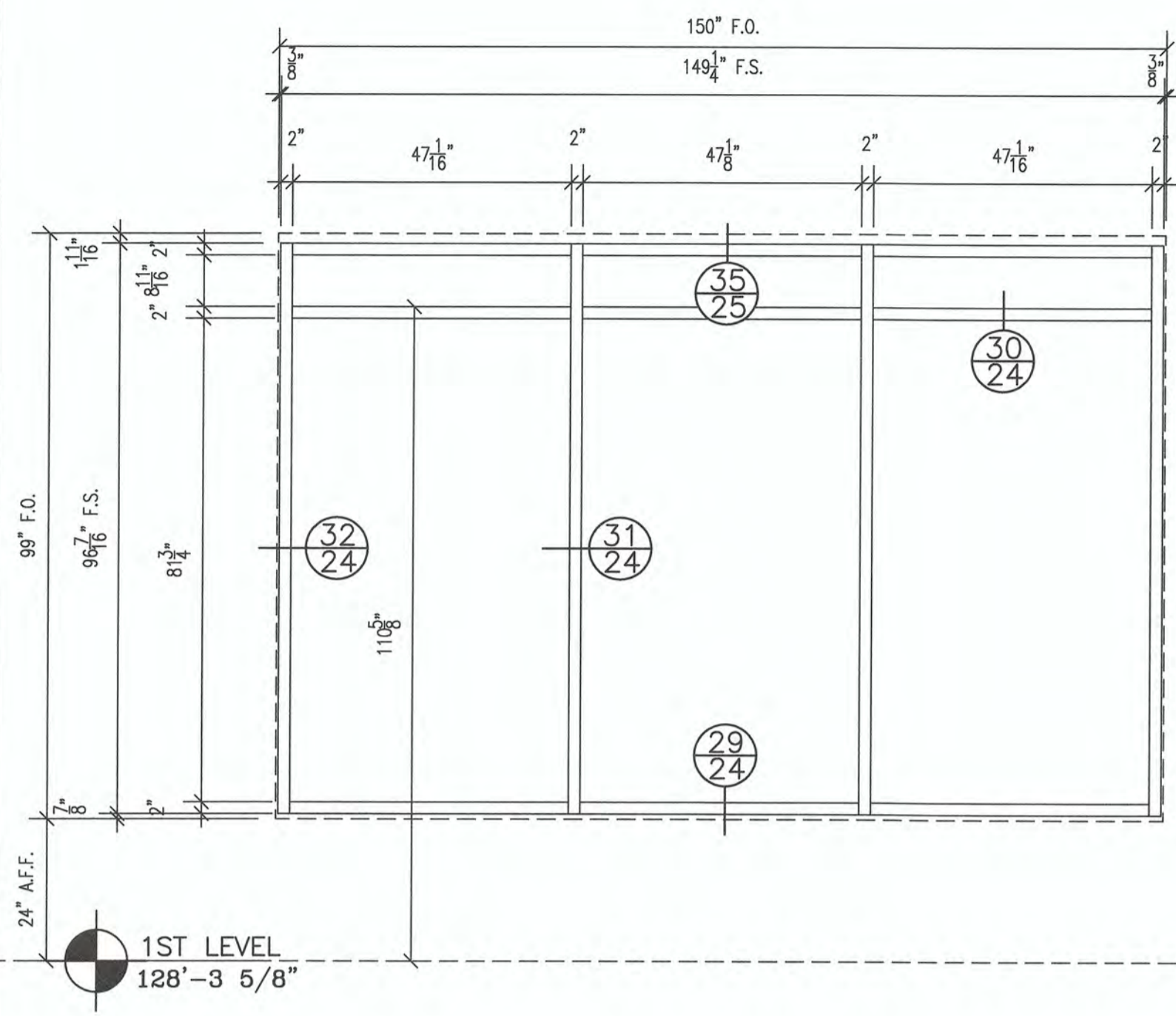
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SHEET NUMBER
 DETAIL NUMBER
SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:
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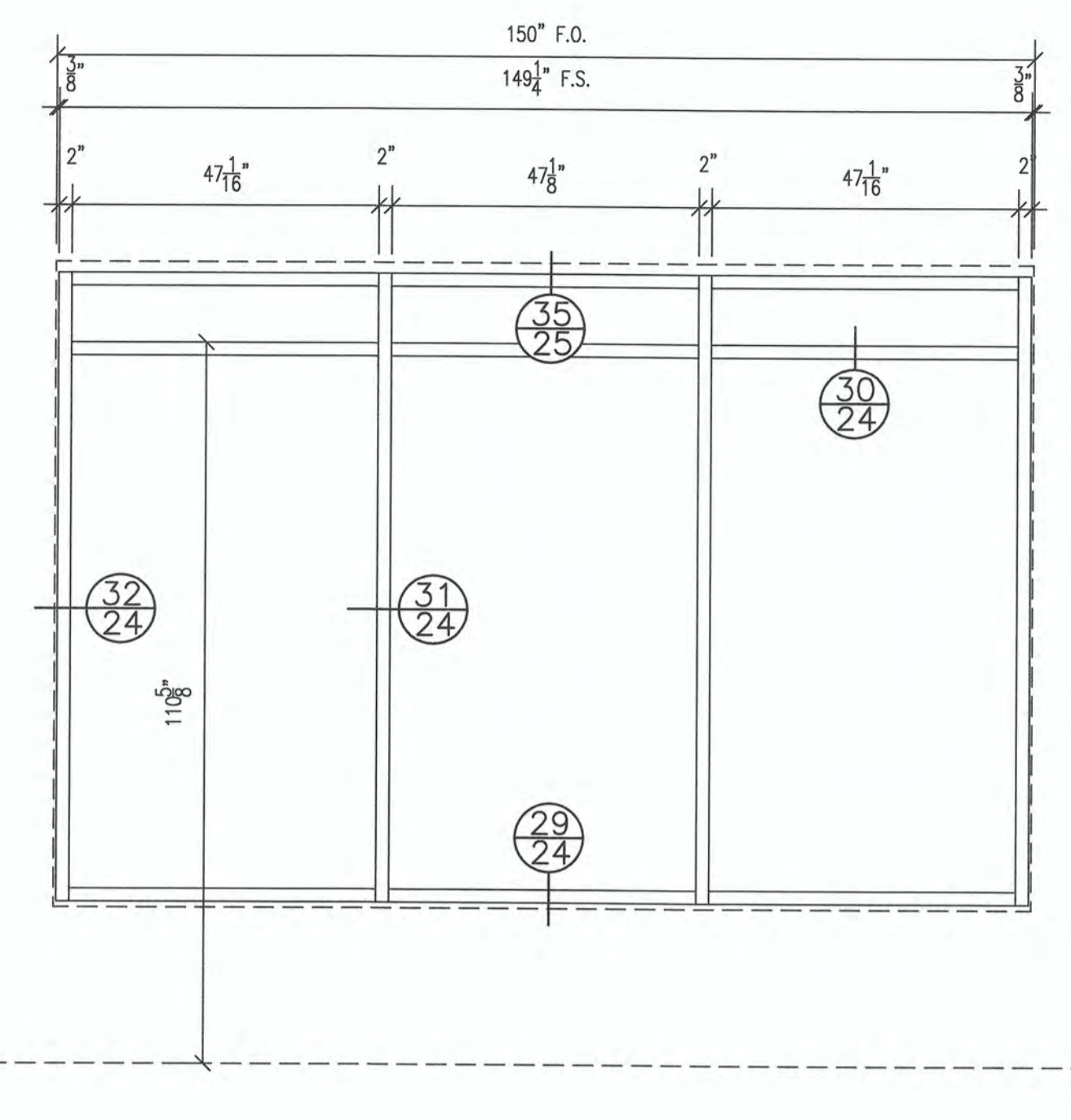
JOB NAME:	THE PARK DANFORTH
ARCHITECT:	LAVALLEE BRENSINGER ARCHITECTS
CONTRACTOR:	
DATE:	2/25/16
SCALE:	AS NOTED
DRAWN BY:	W. PEASE

PG Portland Glass.



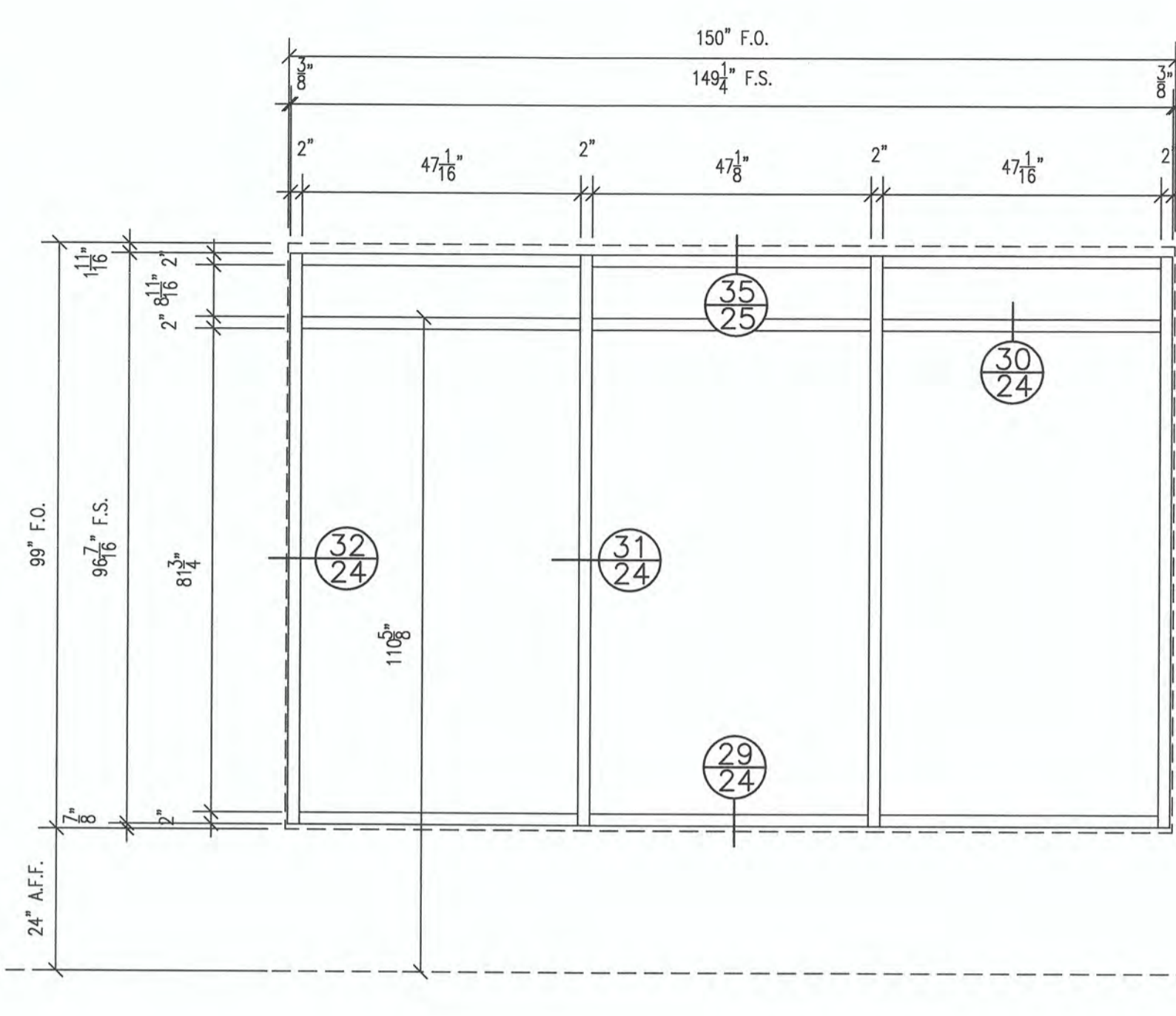
ELEVATION SF1A

SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000
 1 ~ REQUIRED AS DRAWN



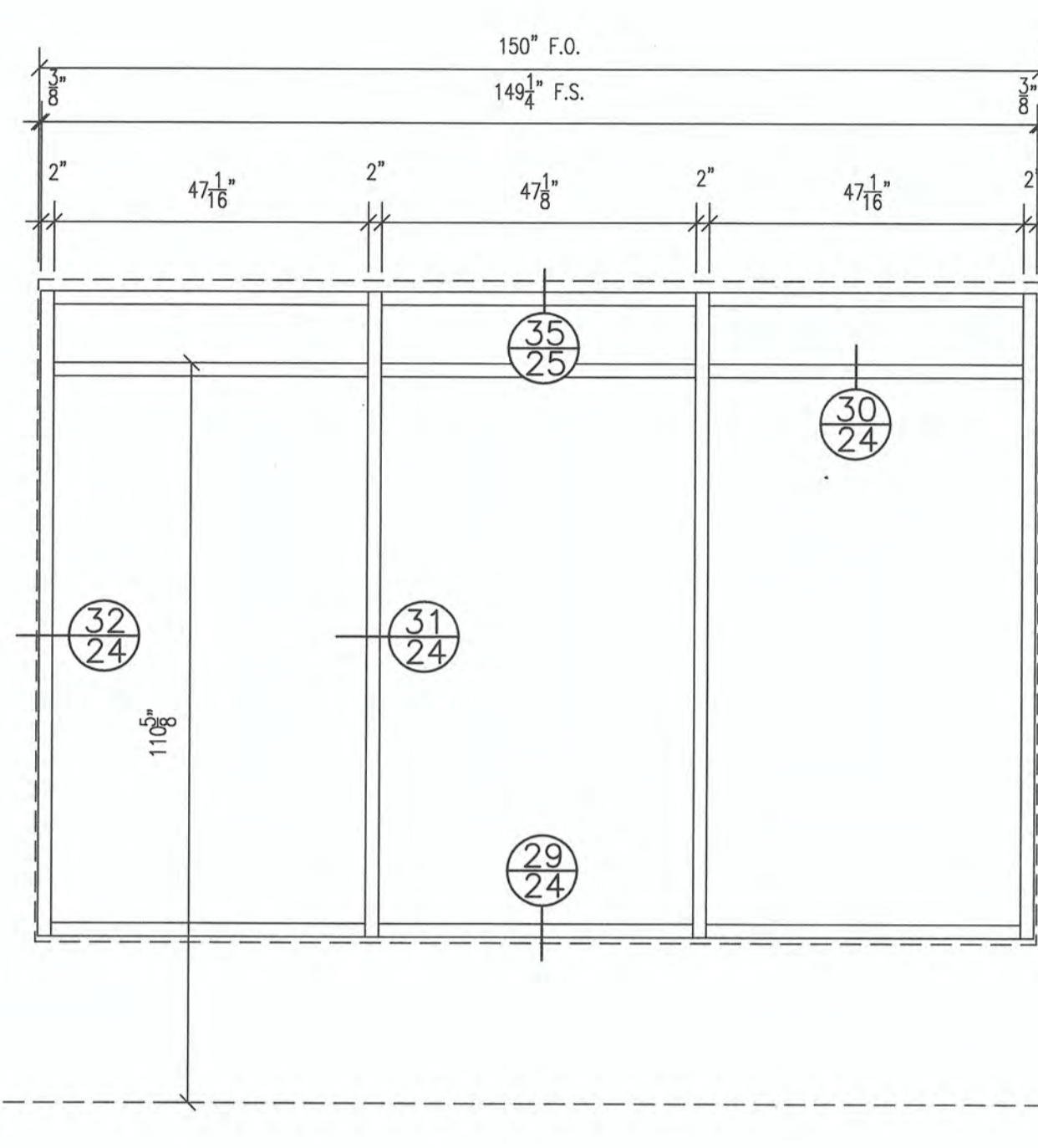
ELEVATION SF1B

SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000
 1 ~ REQUIRED AS DRAWN



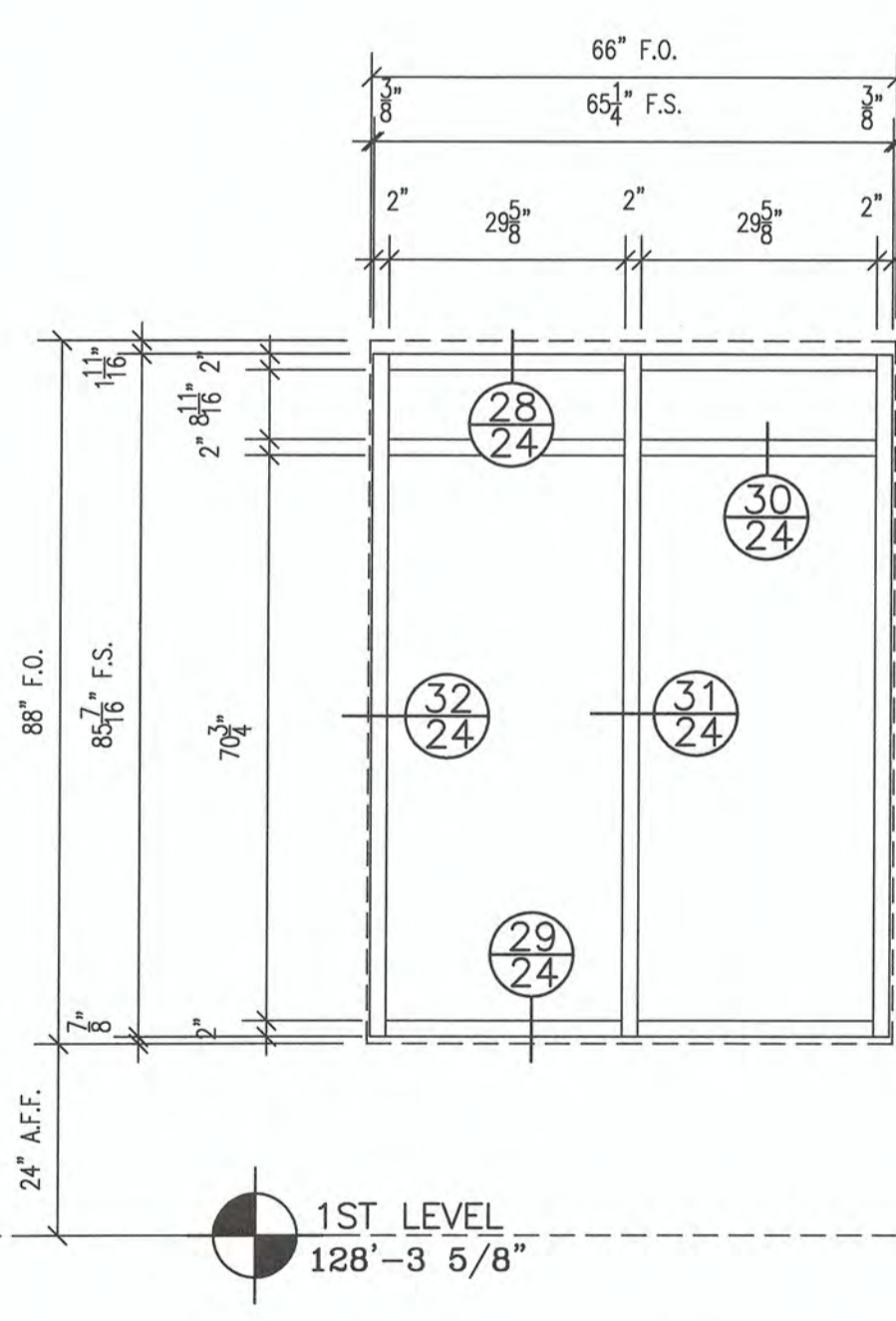
ELEVATION SF1C

SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000
 1 ~ REQUIRED AS DRAWN



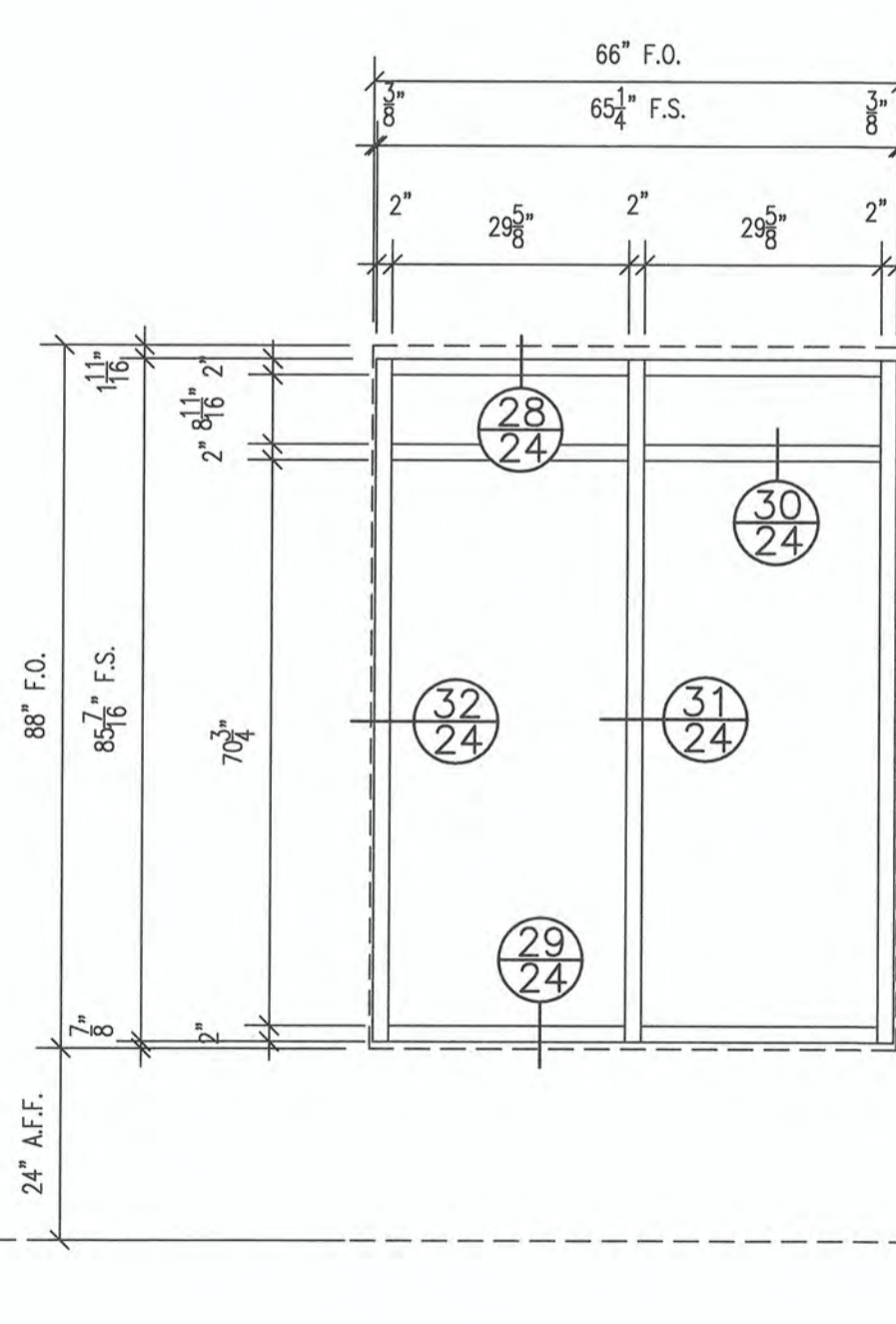
ELEVATION SF1D

SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000
 1 ~ REQUIRED AS DRAWN



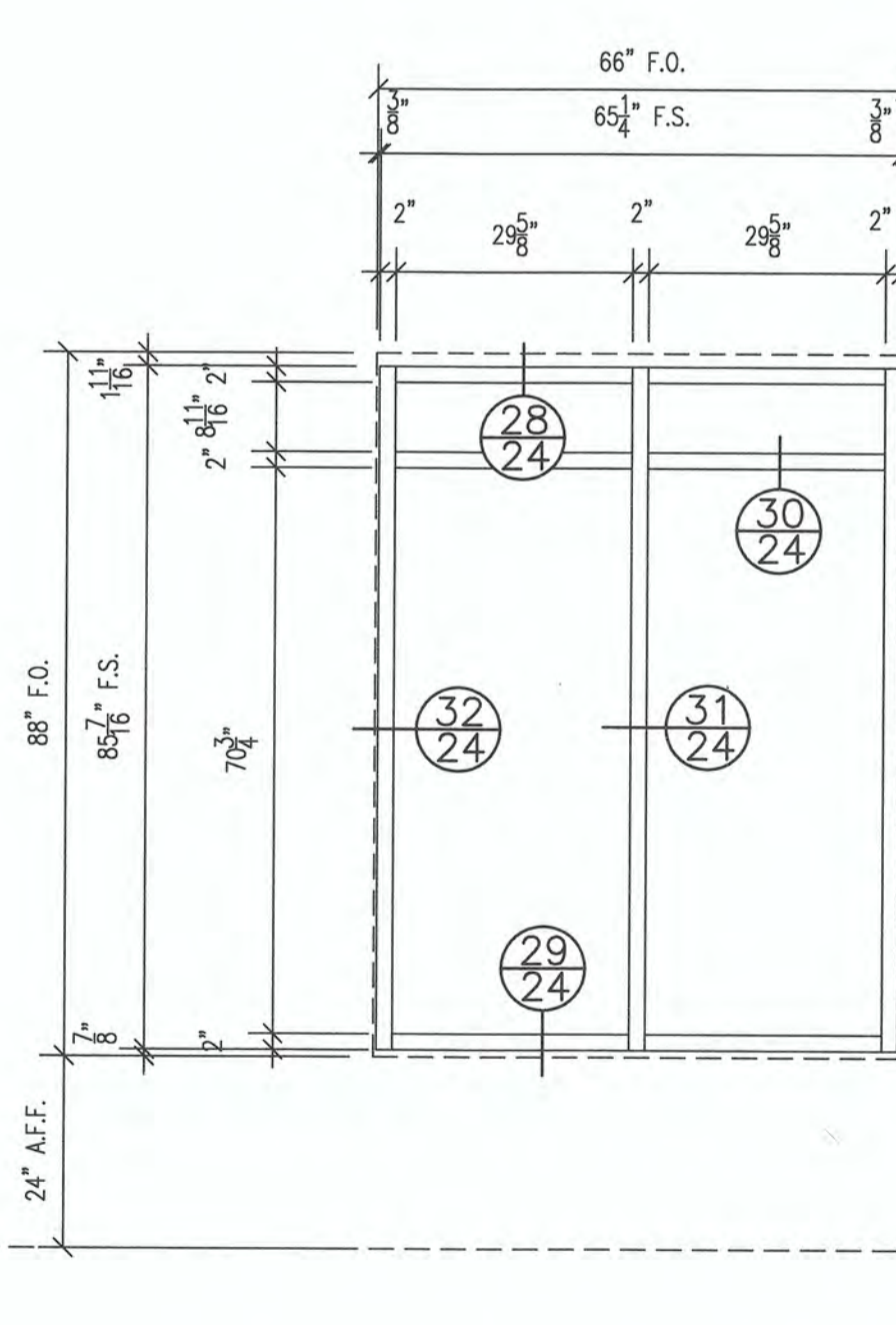
ELEVATION SF2A

SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000
 1 ~ REQUIRED AS DRAWN



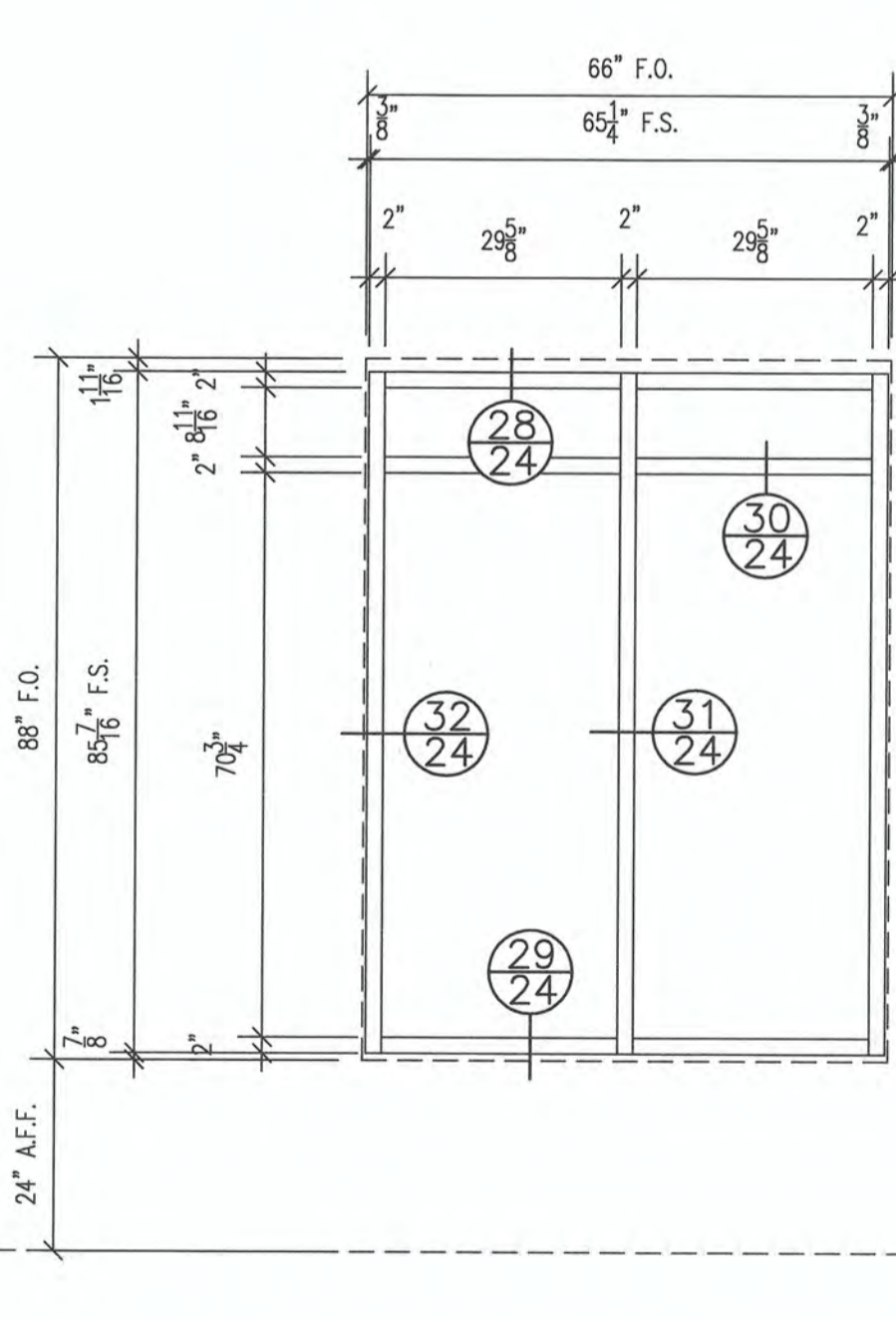
ELEVATION SF2B

SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000
 1 ~ REQUIRED AS DRAWN



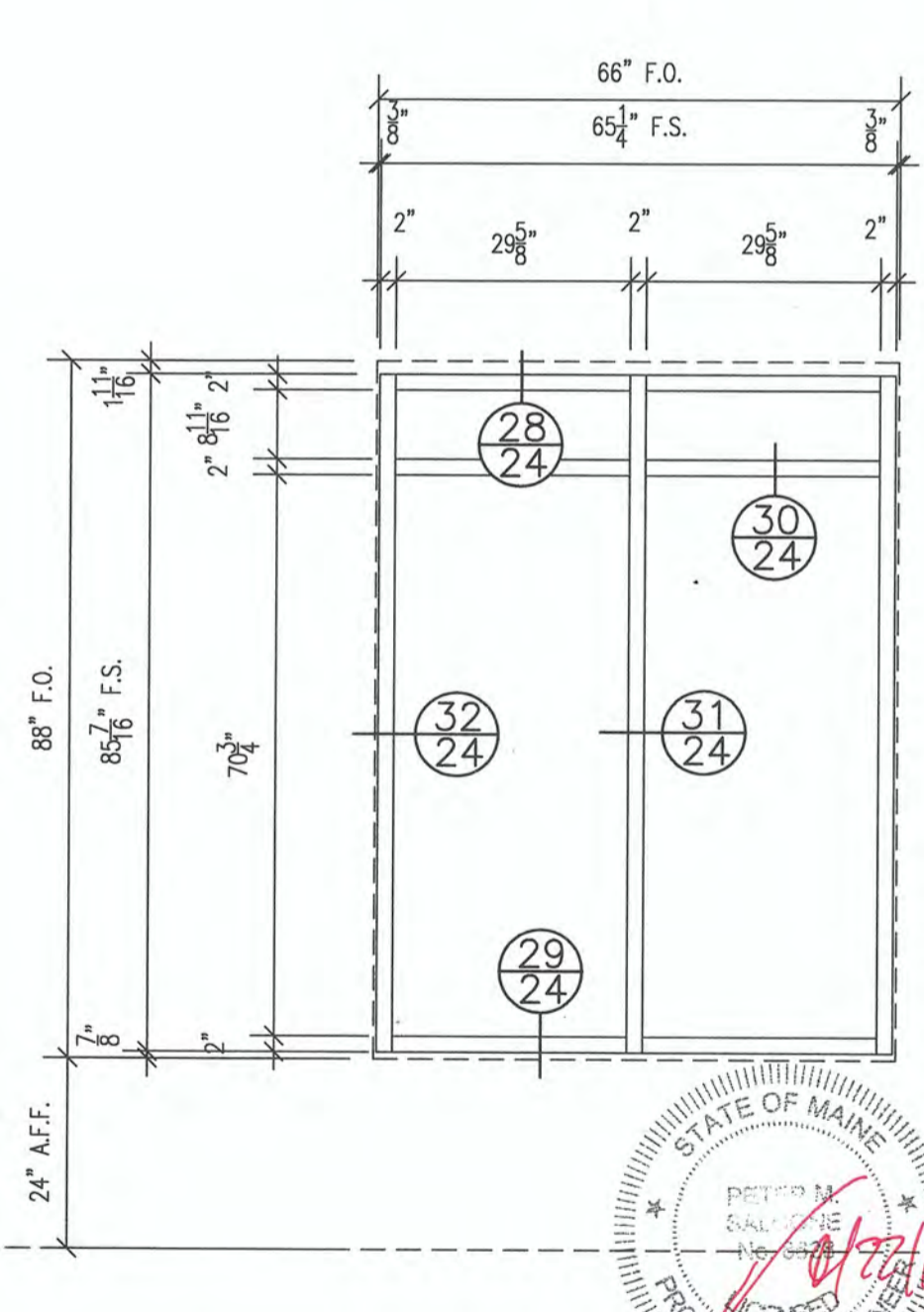
ELEVATION SF2C

SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000
 1 ~ REQUIRED AS DRAWN



ELEVATION SF2D

SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000
 1 ~ REQUIRED AS DRAWN



ELEVATION SF2E

SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000
 1 ~ REQUIRED AS DRAWN



ABBREVIATIONS:

M.O. - MASONRY OPENING	F.S. - FRAME SIZE
F.O. - FINISHED OPENING	W.S. - WINDOW SIZE
D.O. - DOOR OPENING	REQ'D - REQUIRED
S.O. - STEEL OPENING	CLR. - CLEAR
A.F.F. - ABOVE FINISHED FLOOR	B.O.S. - BOTTOM OF STEEL
DIM. - DIMENSION	T.O.S. - TOP OF STEEL
C - CENTER LINE	NTS - NOT TO SCALE

SYMBOLS:

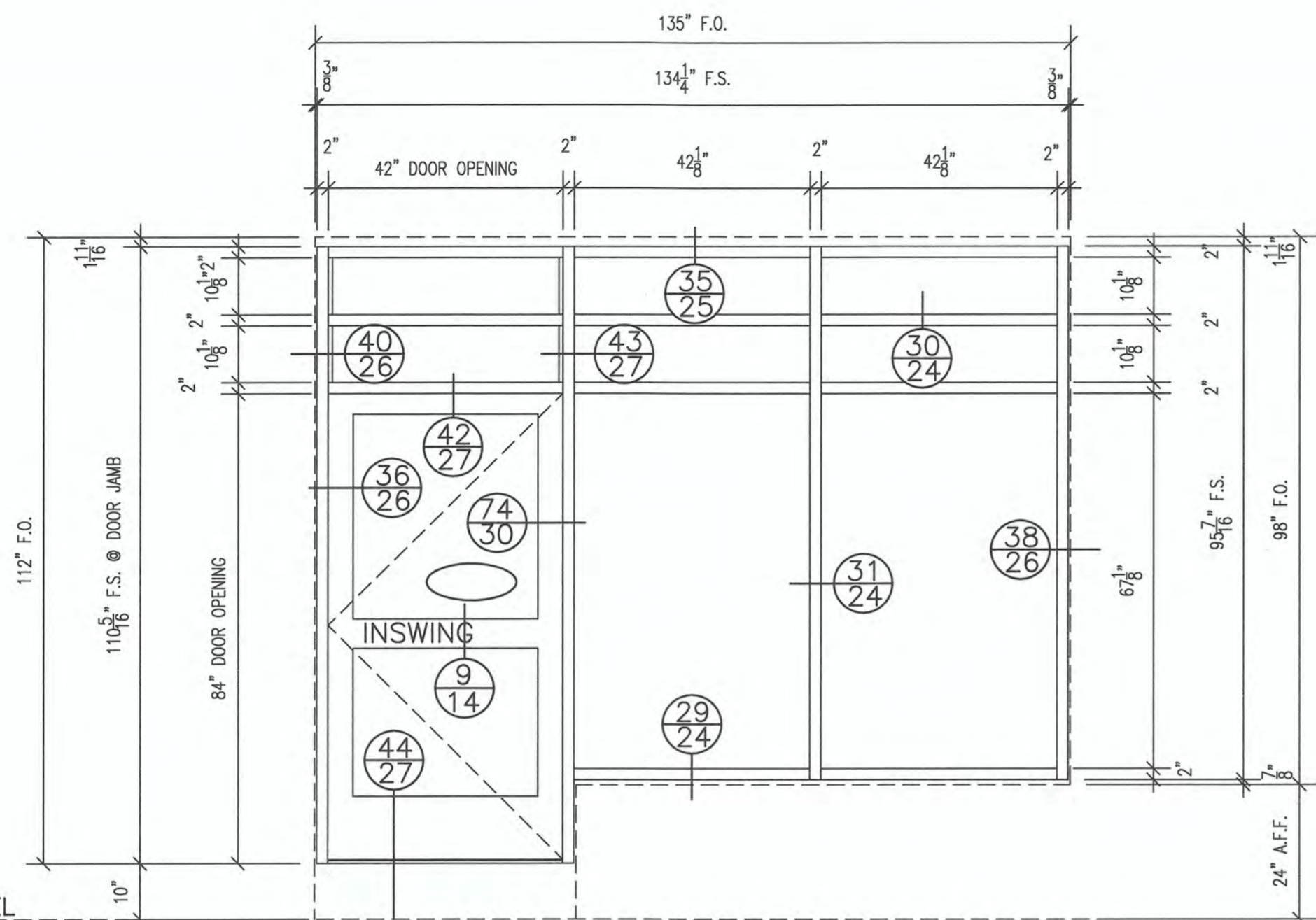
	ELEVATION NUMBER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:
1			1		
2			2		
3			3		
4			4		
5			5		

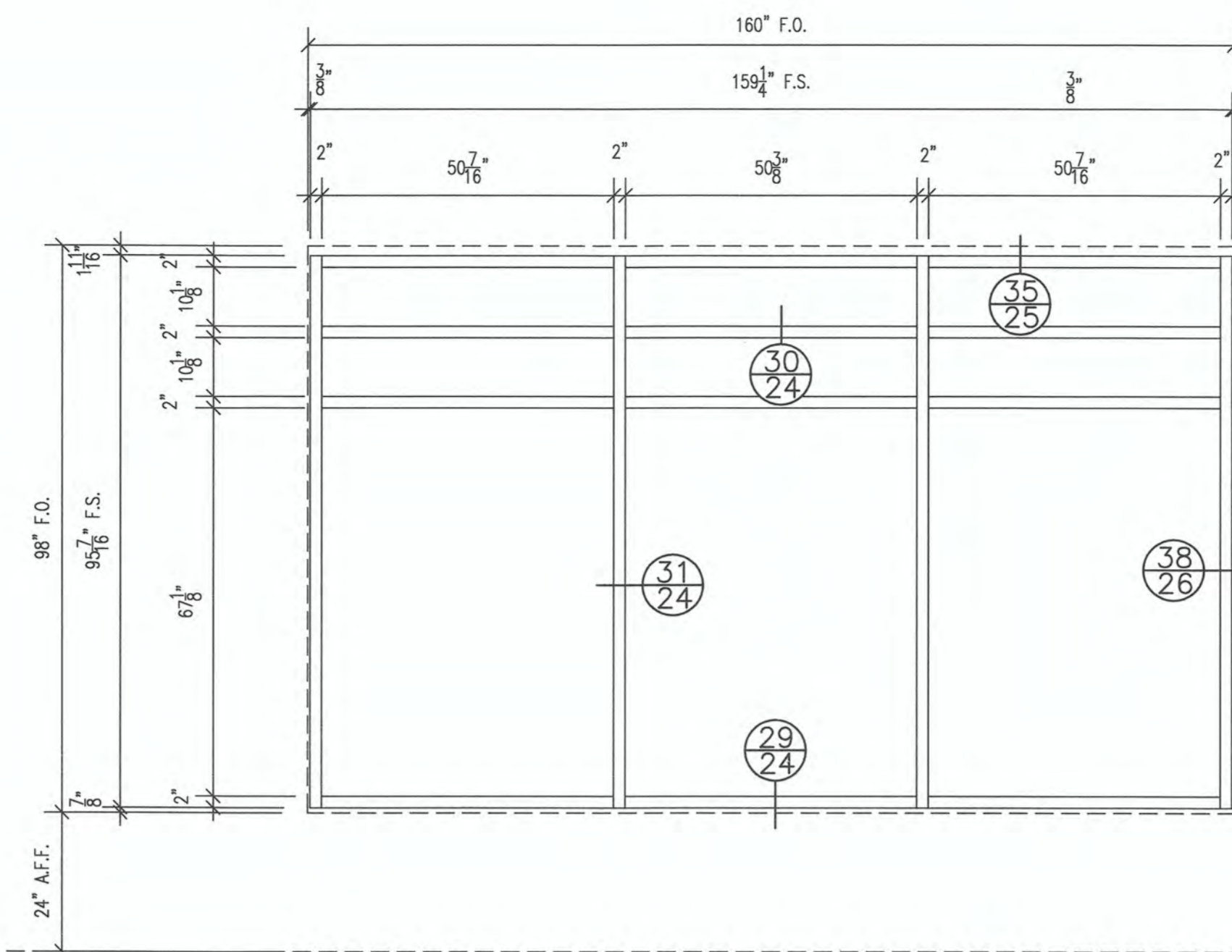
JOB NAME:	THE PARK DANFORTH	DATE:	2/25/16
ARCHITECT:	LAVALLEE BRENSINGER ARCHITECTS	SCALE:	AS NOTED
CONTRACTOR:		DRAWN BY:	W. PEASE

5TH LEVEL
171'-5 5/8"



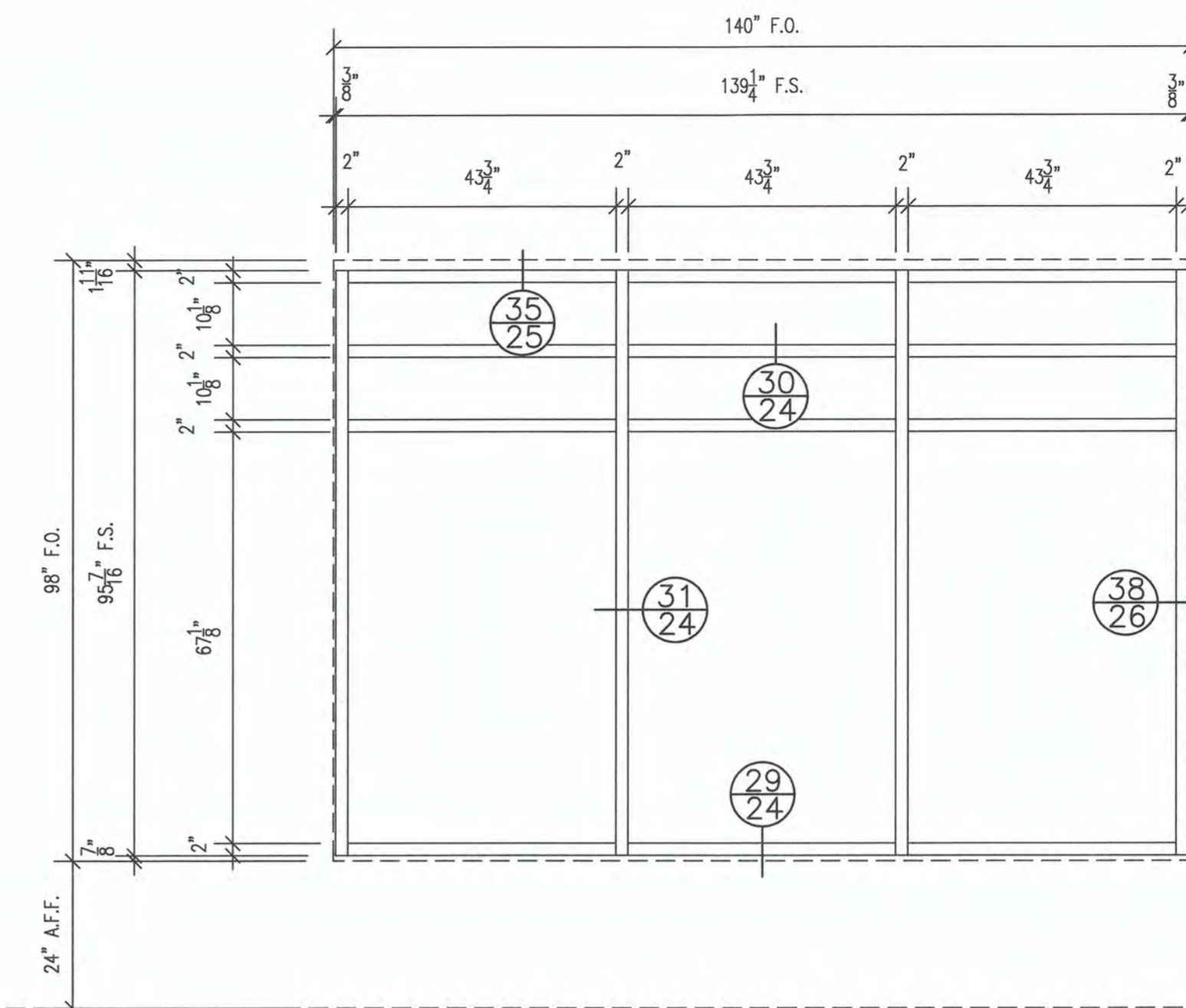
ELEVATION SF5

SCALE: 1/2"=1'-0"
OLDCASTLE FG-3000
1 ~ REQUIRED AS DRAWN



ELEVATION SF6

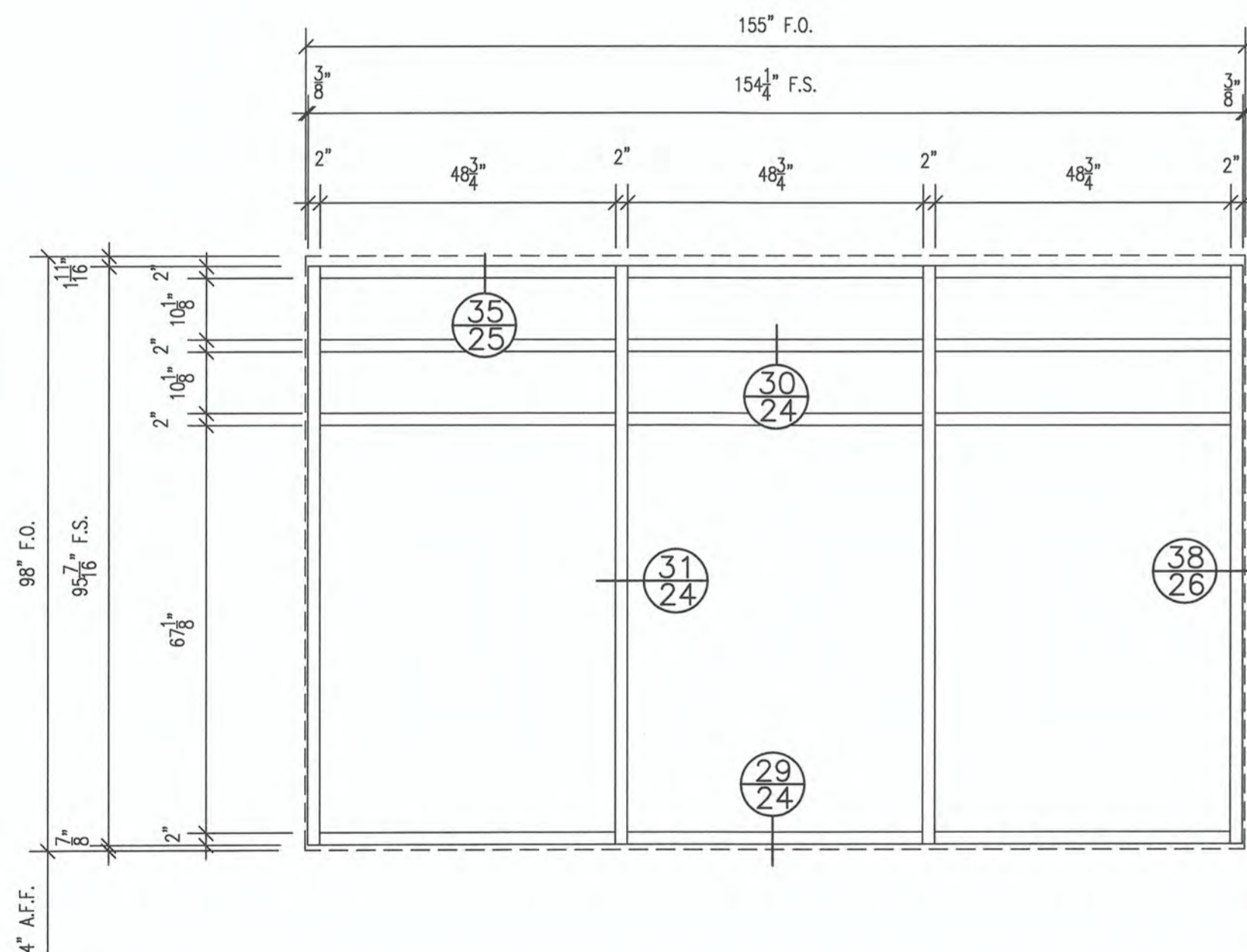
SCALE: 1/2"=1'-0"
OLDCASTLE FG-3000
1 ~ REQUIRED AS DRAWN



ELEVATION SF7

SCALE: 1/2"=1'-0"
OLDCASTLE FG-3000
1 ~ REQUIRED AS DRAWN

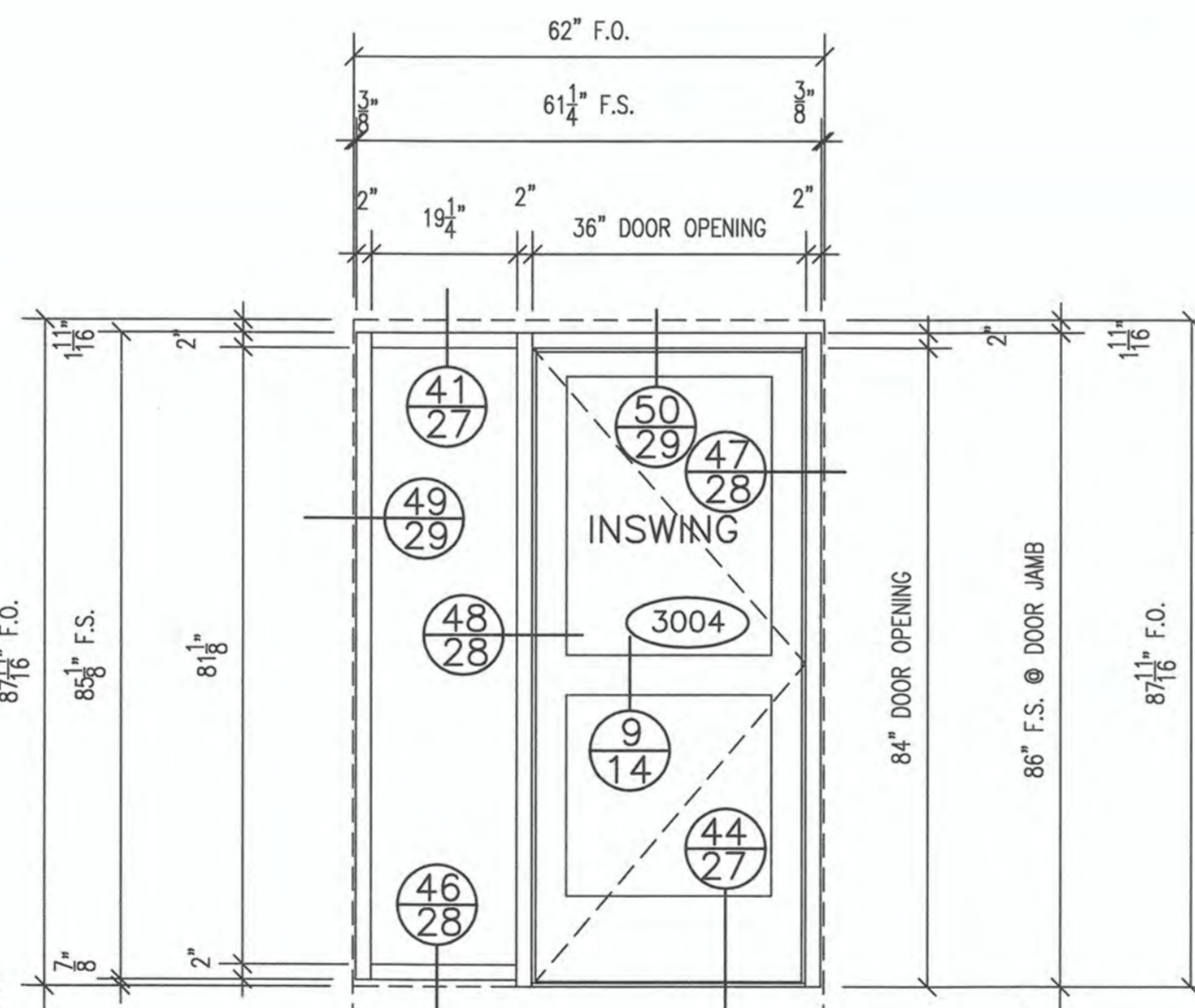
5TH LEVEL
171'-5 5/8"



ELEVATION SF8

SCALE: 1/2"=1'-0"
OLDCASTLE FG-3000
1 ~ REQUIRED AS DRAWN

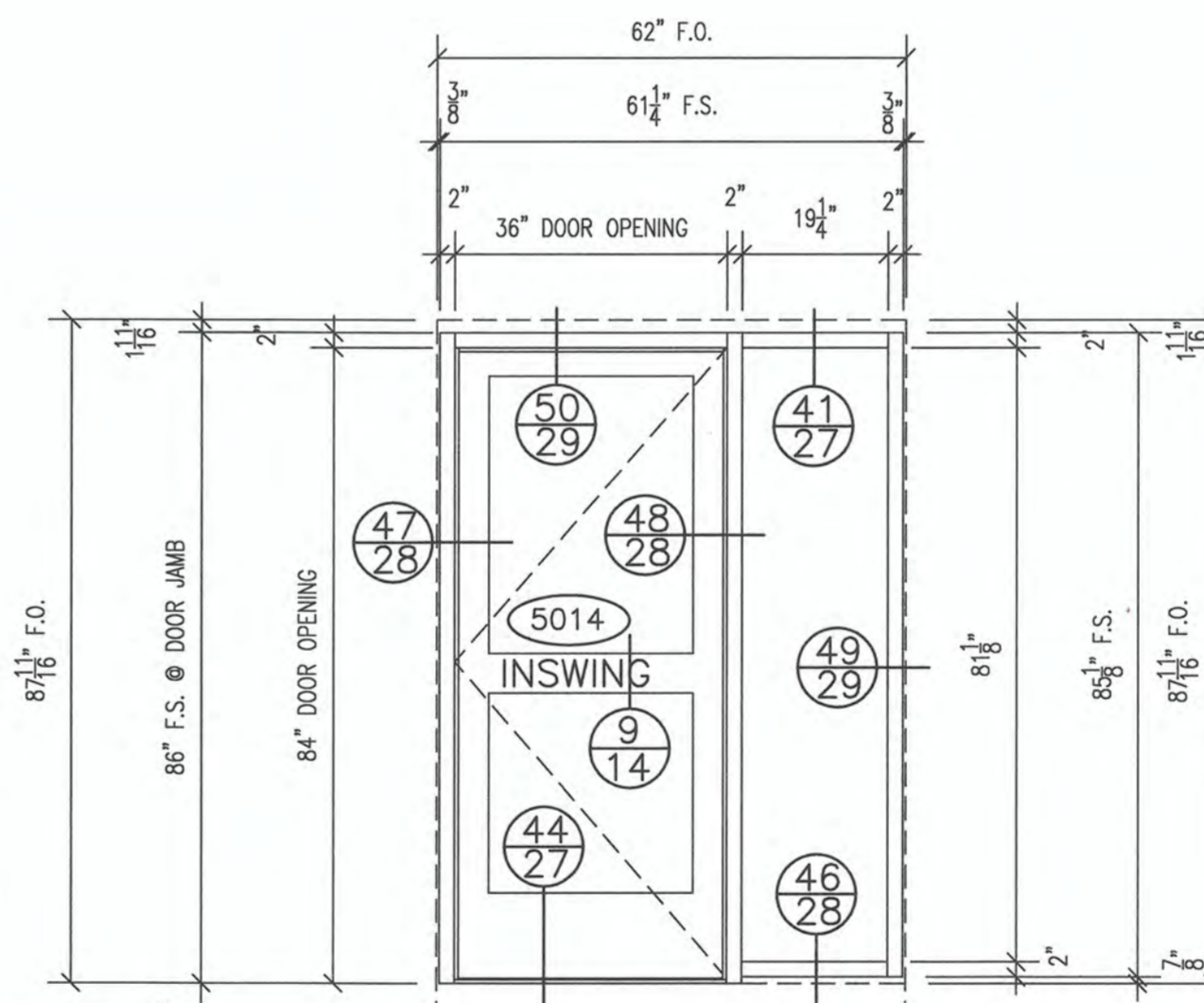
3RD LEVEL
160'-5 5/8"



ELEVATION SF9A

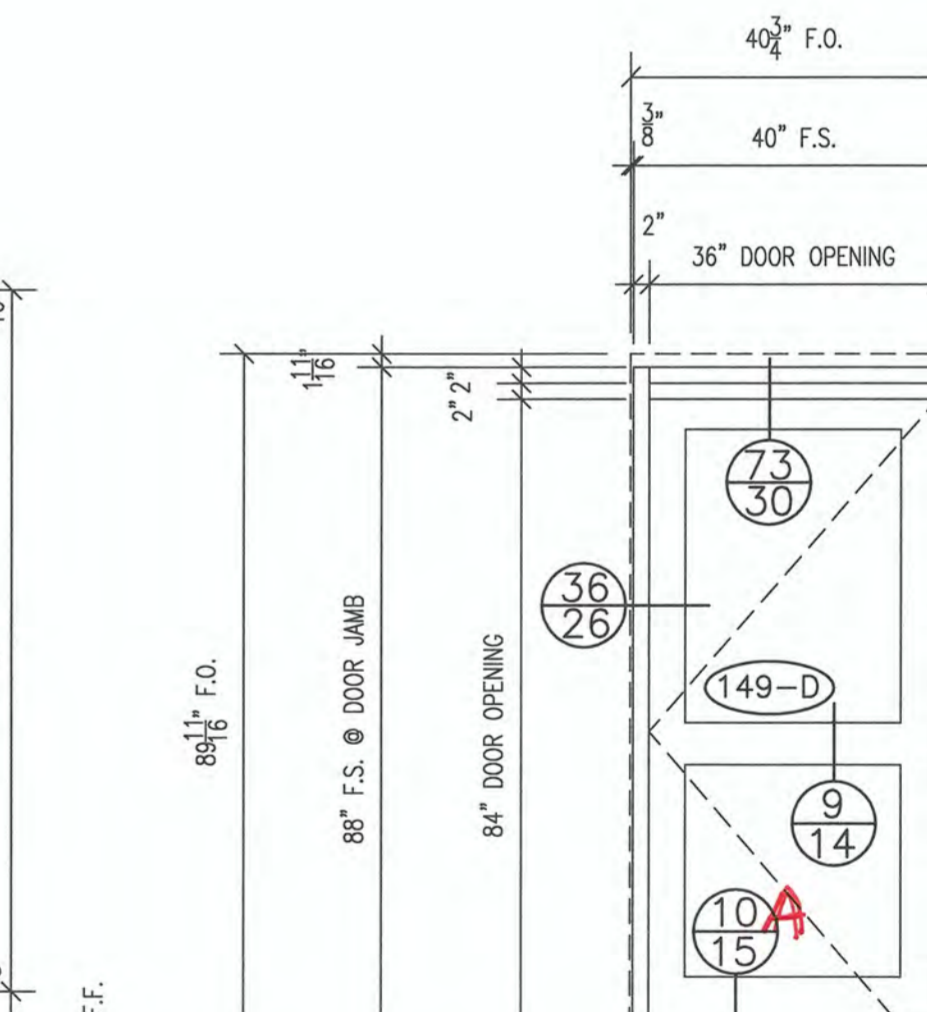
SCALE: 1/2"=1'-0"
OLDCASTLE FG-3000
1 ~ REQUIRED AS DRAWN

5TH LEVEL
171'-5 5/8"



ELEVATION SF9B

SCALE: 1/2"=1'-0"
OLDCASTLE FG-3000
1 ~ REQUIRED AS DRAWN



ELEVATION 149-D

SCALE: 1/2"=1'-0"
OLDCASTLE FG-3000
1 ~ REQUIRED AS DRAWN

Elevation # also show old sheet !!



ABBREVIATIONS:

M.O. - MASONRY OPENING	F.S. - FRAME SIZE
F.O. - FINISHED OPENING	W.S. - WINDOW SIZE
D.O. - DOOR OPENING	REQ'D - REQUIRED
S.O. - STEEL OPENING	CLR. - CLEAR
A.F.F. - ABOVE FINISHED FLOOR	B.O.S. - BOTTOM OF STEEL
DIM. - DIMENSION	T.O.S. - TOP OF STEEL
Q - CENTER LINE	NTS - NOT TO SCALE

SYMBOLS:

	ELEVATION NUMBER
	DETAIL NUMBER
	SHEET NUMBER

REVISIONS:

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

JOB NAME: THE PARK DANFORTH

ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS

CONTRACTOR:

DATE: 2/25/16

SCALE: AS NOTED

DRAWN BY: W. PEASE

SHEET NUMBER: 9 OF 33

PG Portland Glass.

PG PORTLAND GLASS
832 CONGRESS STREET
PORTLAND, MAINE 04102

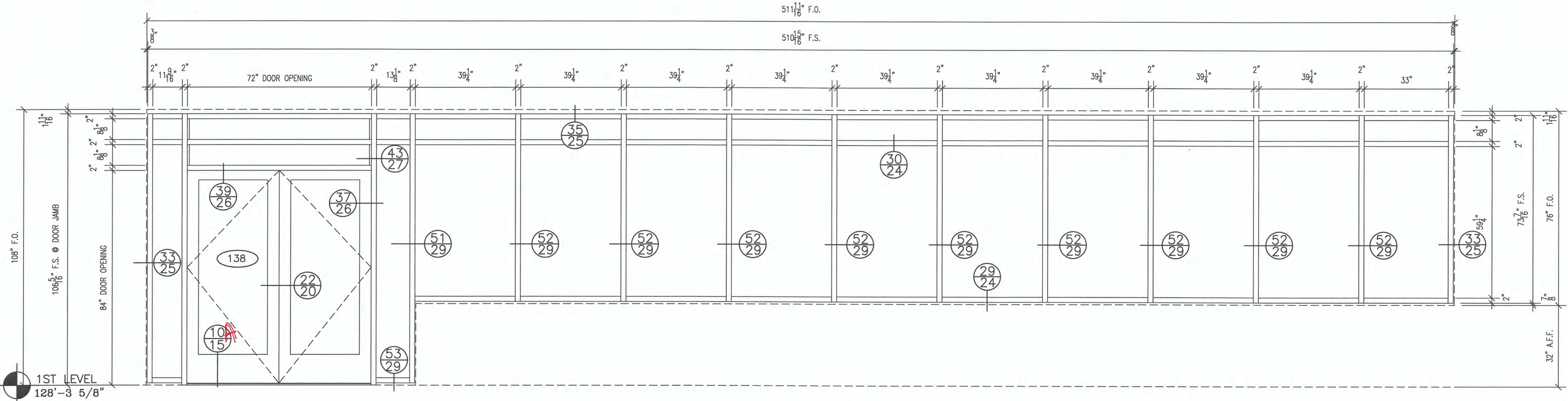
PHONE: 207-774-9851
FAX: 207-774-9855

LAST REVISED: 2/25/16

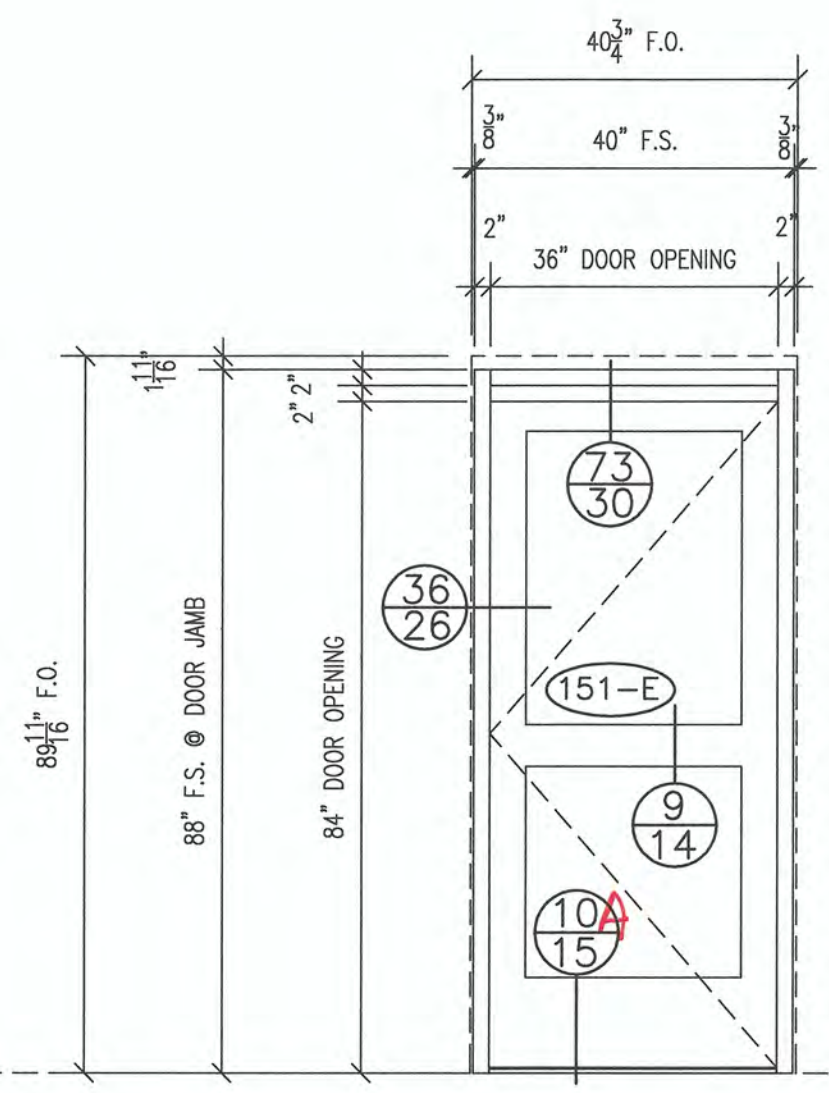
JOB NAME: THE PARK DANFORTH

PG Portland Glass.

(SEGMENTED - SHOWN FLAT FOR DIMENSIONAL CLARITY)

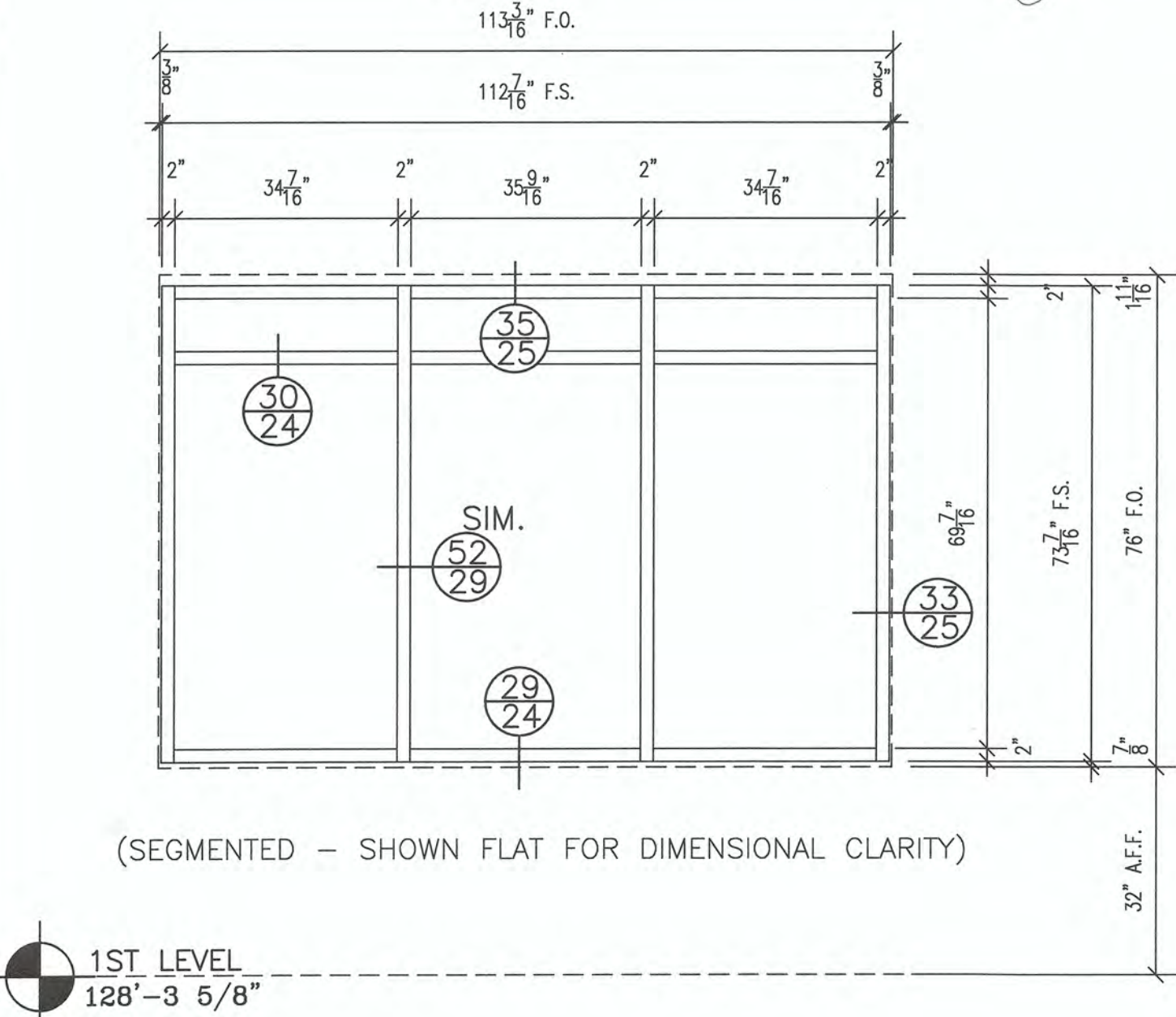


ELEVATION SF15
 SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000
 1 ~ REQUIRED AS DRAWN

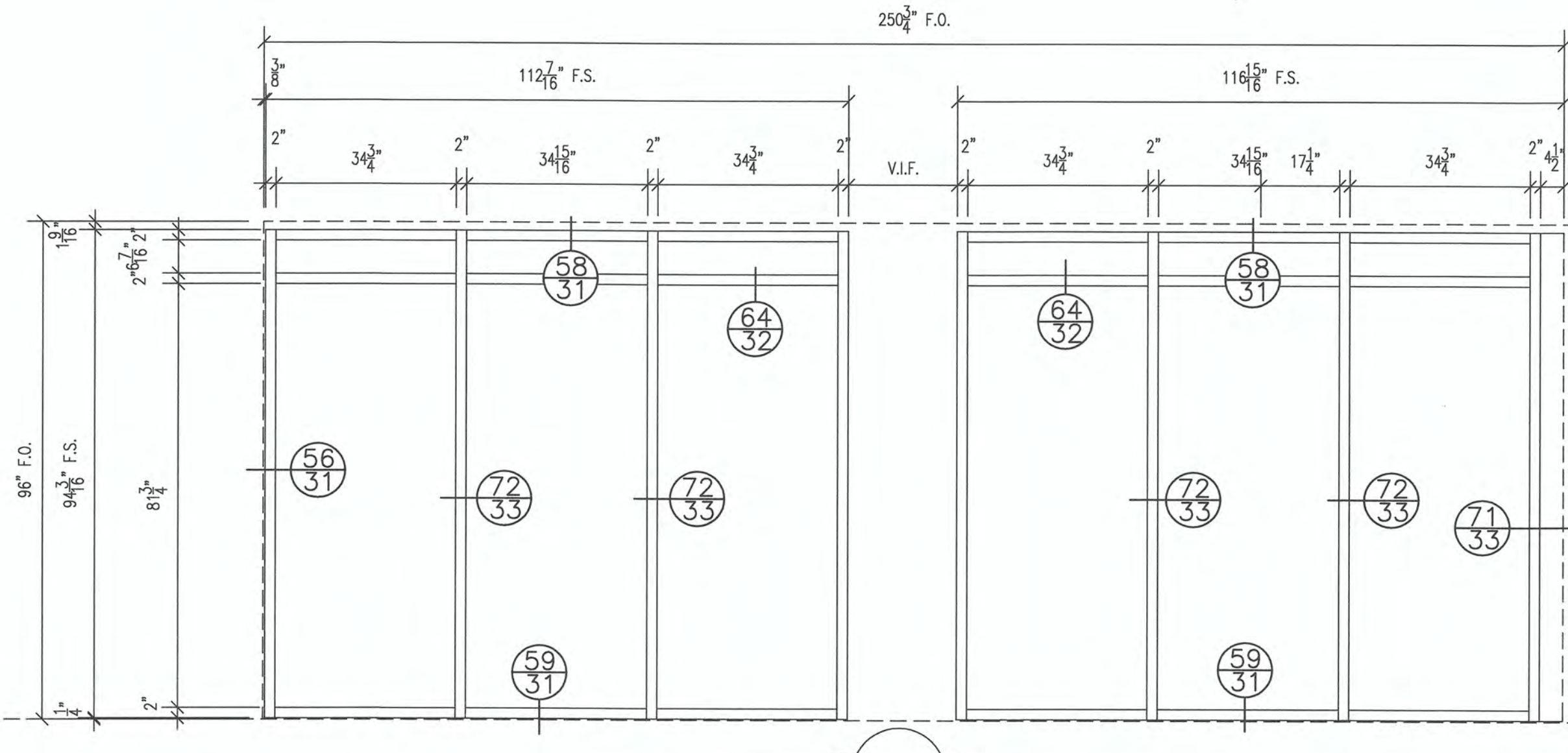


ELEVATION 151-E
 SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000
 1 ~ REQUIRED AS DRAWN

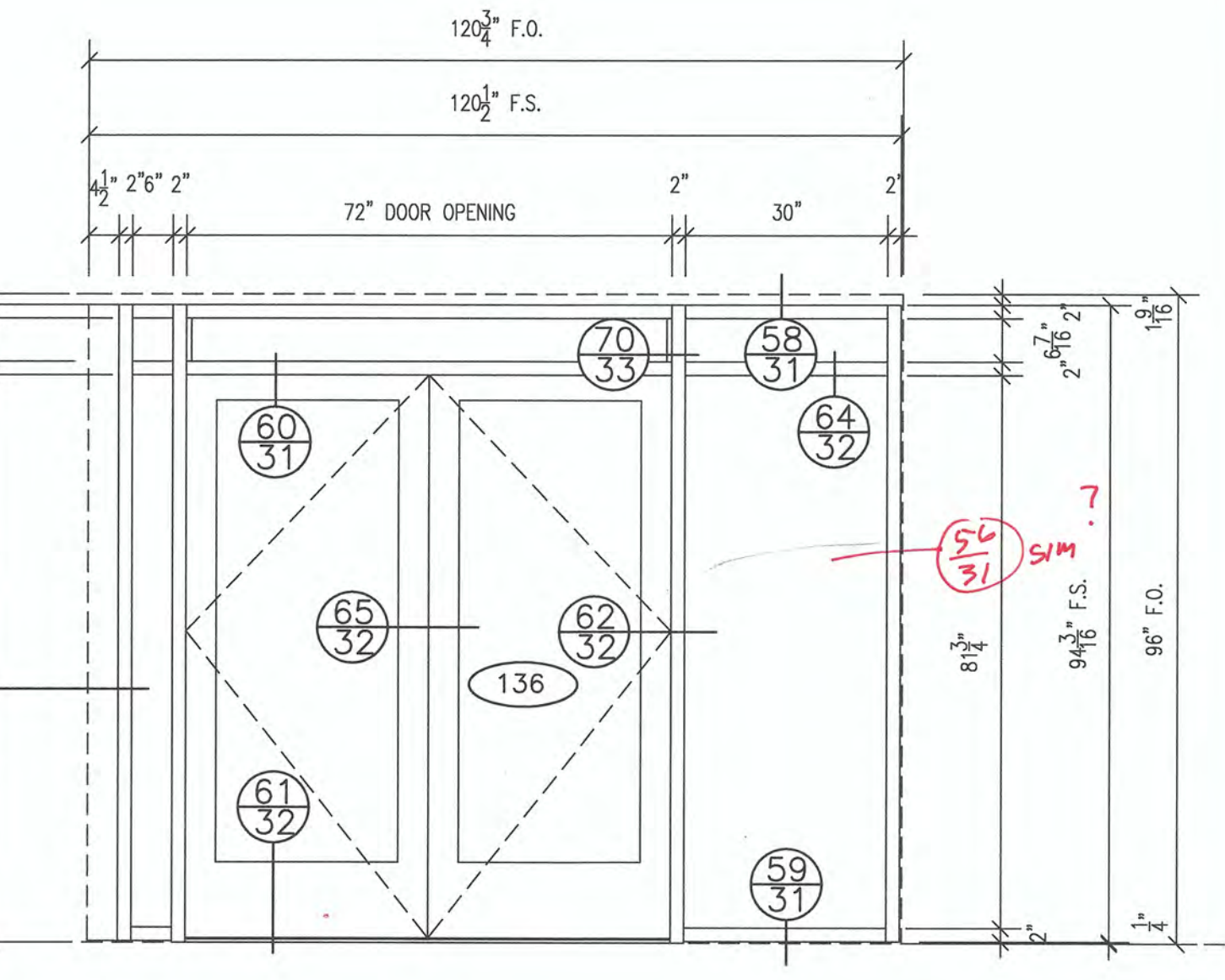
(SEGMENTED - SHOWN FLAT FOR DIMENSIONAL CLARITY)



ELEVATION SF16A
 SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000
 1 ~ REQUIRED AS DRAWN



ELEVATION SF19
 SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000 w/ 1/4\"/>



ELEVATION SF20
 SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000 w/ 1/4\"/>



ABBREVIATIONS:

M.O. - MASONRY OPENING	F.S. - FRAME SIZE
F.O. - FINISHED OPENING	W.S. - WINDOW SIZE
D.O. - DOOR OPENING	REQ'D - REQUIRED
S.O. - STEEL OPENING	CLR. - CLEAR
A.F.F. - ABOVE FINISHED FLOOR	B.O.S. - BOTTOM OF STEEL
DIM. - DIMENSION	T.O.S. - TOP OF STEEL
C - CENTER LINE	NTS - NOT TO SCALE

SYMBOLS:

	ELEVATION NUMBER
	DETAIL NUMBER
	SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:

JOB NAME: THE PARK DANFORTH

ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS

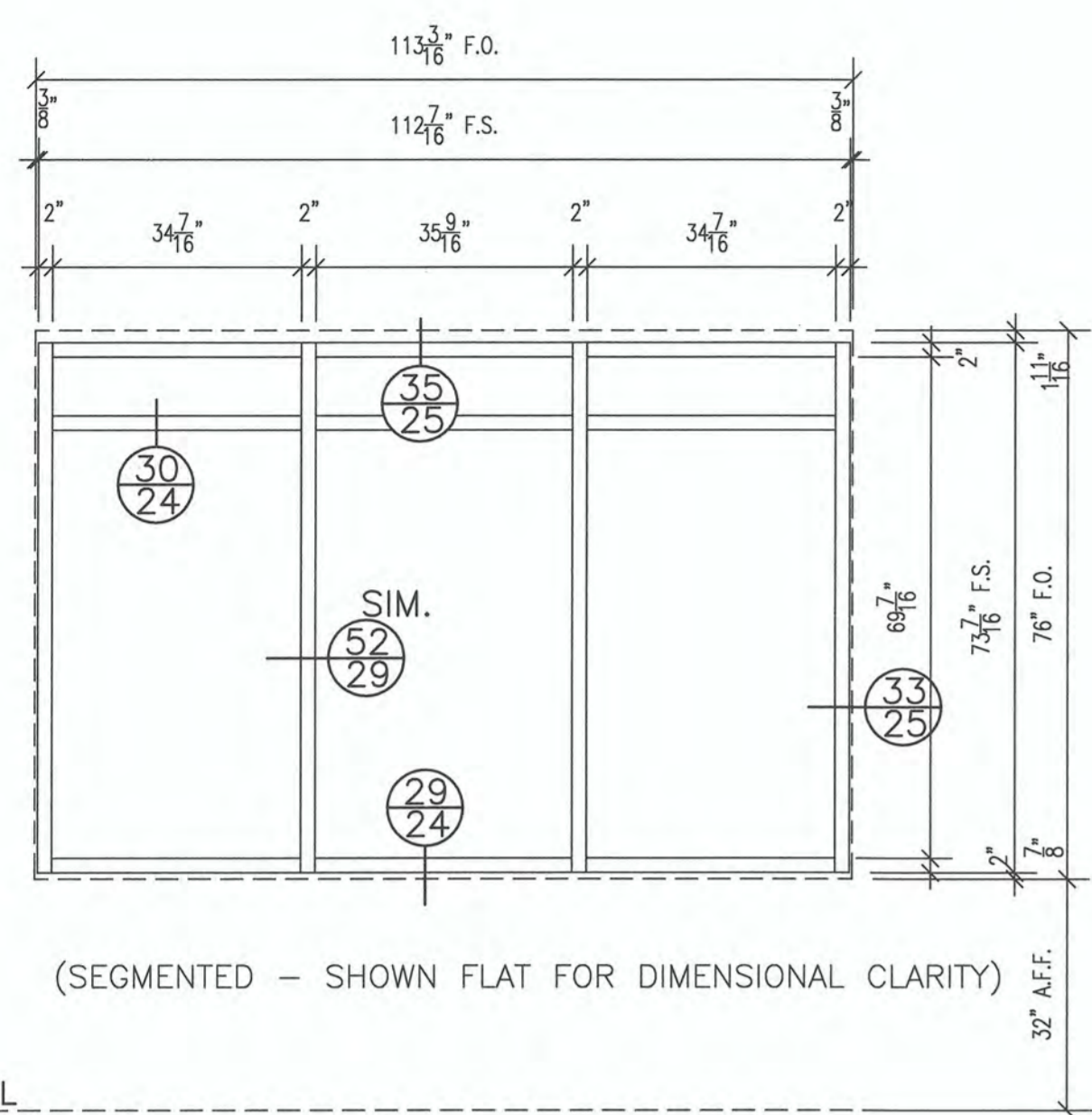
CONTRACTOR:

DATE: 2/25/16

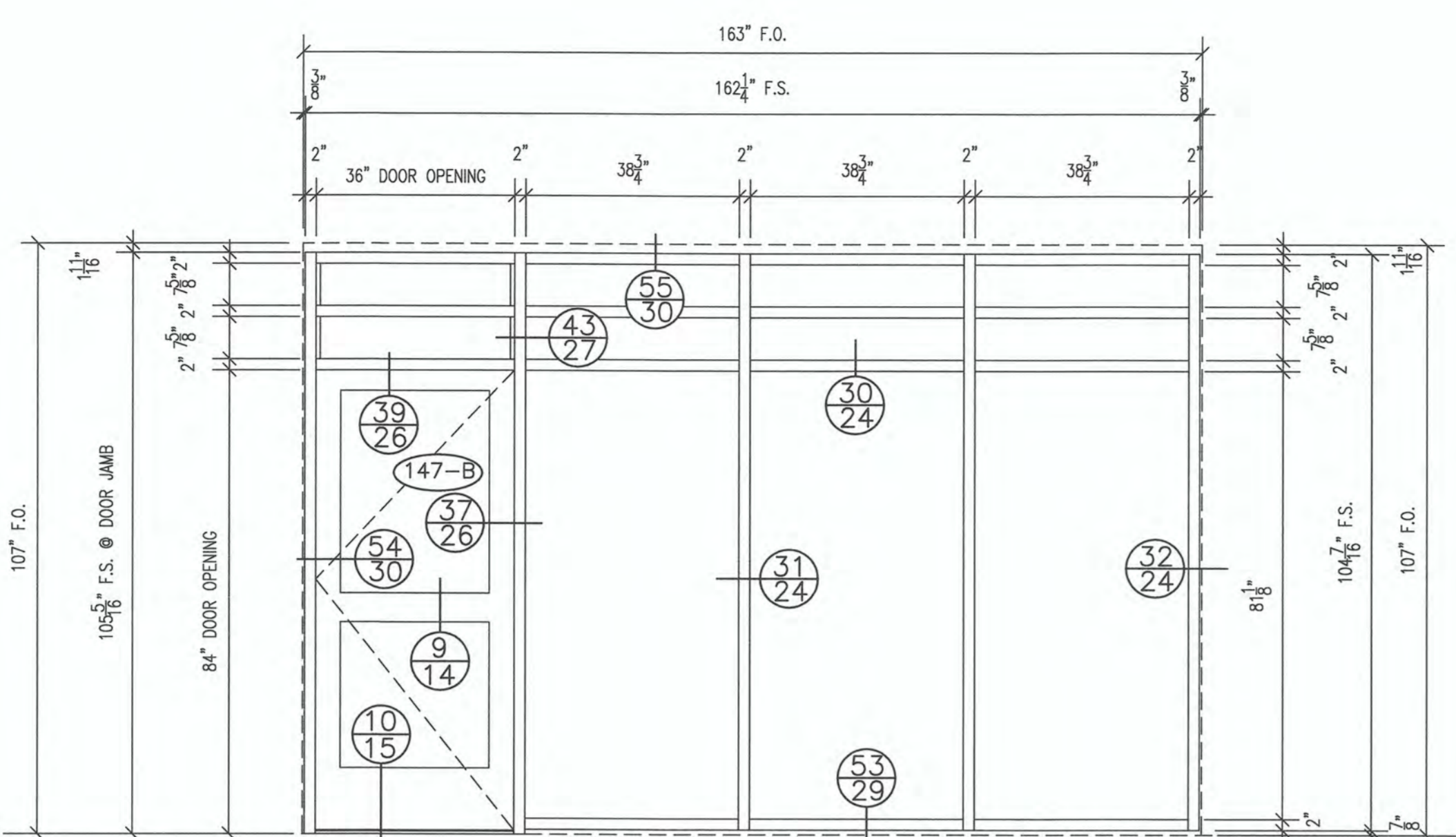
SCALE: AS NOTED

DRAWN BY: W. PEASE

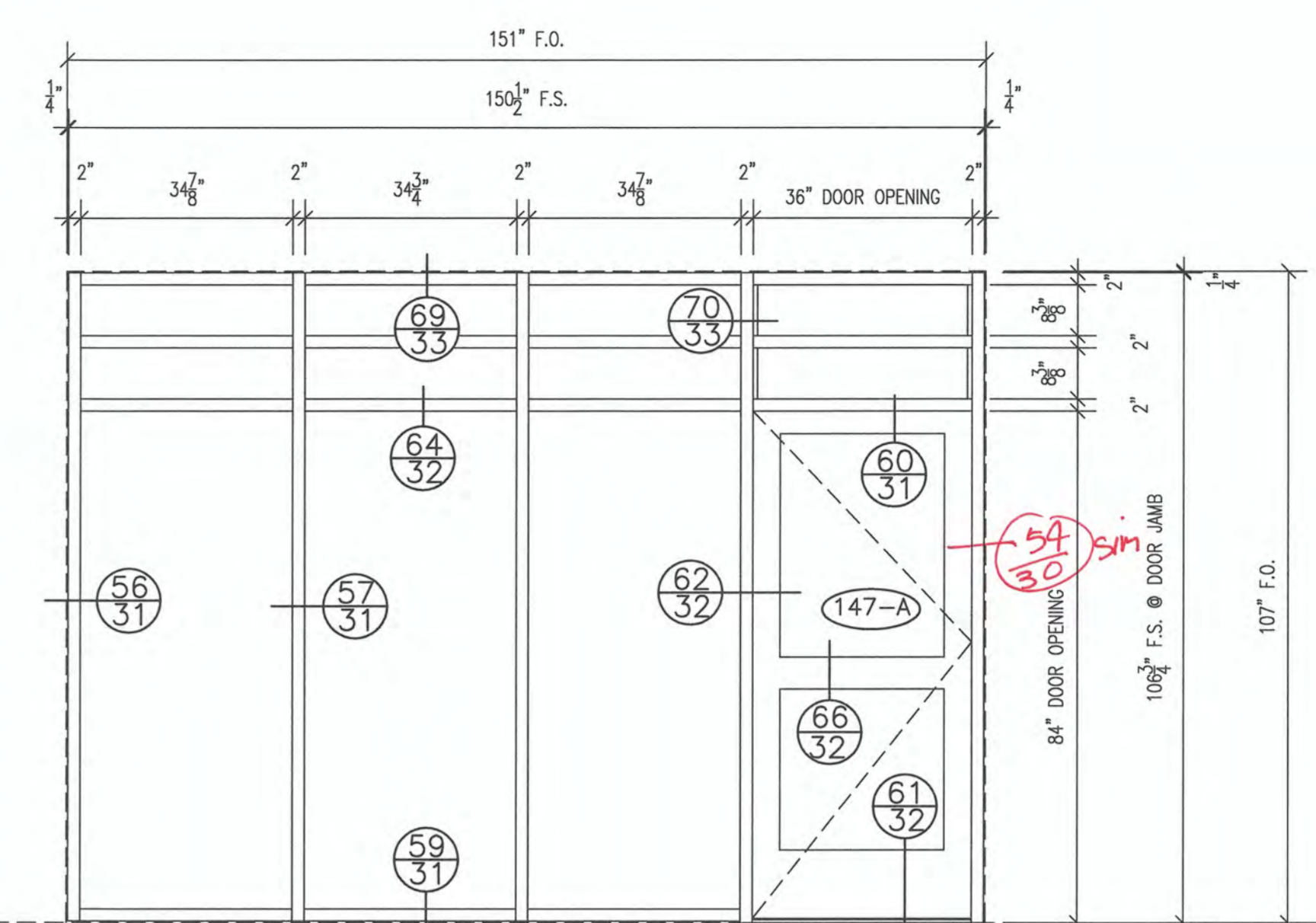
PG Portland Glass.



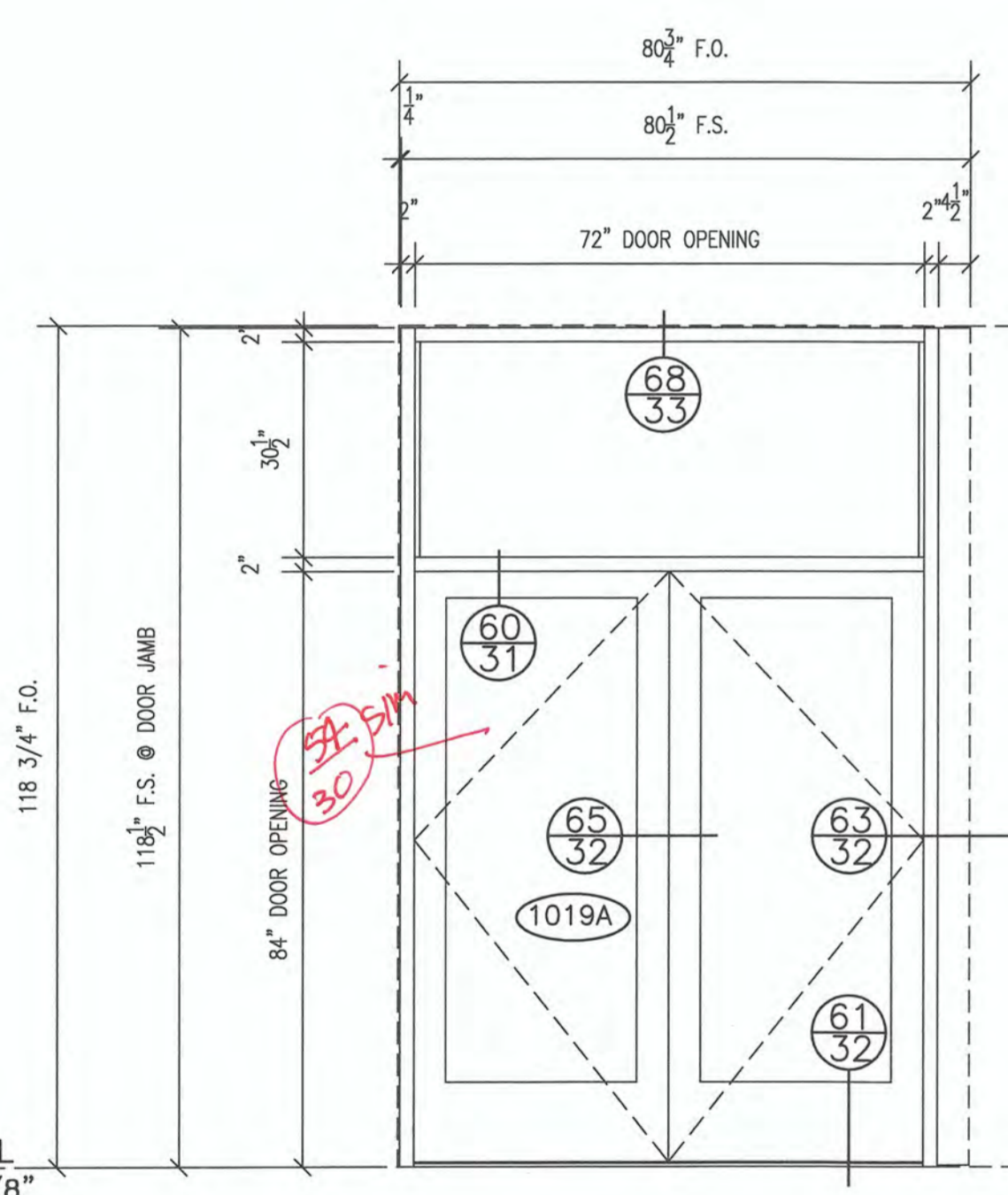
ELEVATION SF16B
 SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000
 1 ~ REQUIRED AS DRAWN



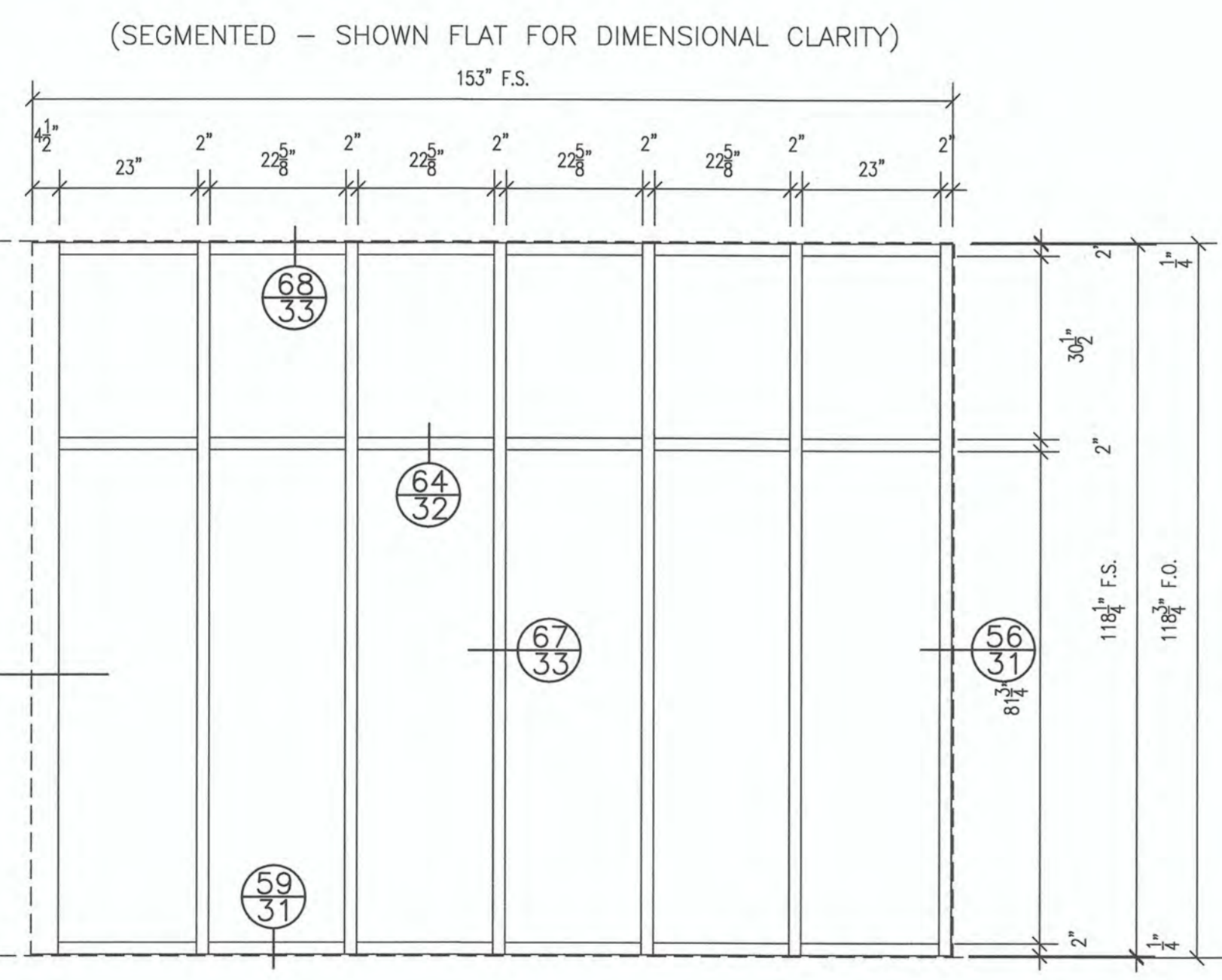
ELEVATION SF17
 SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000
 1 ~ REQUIRED AS DRAWN



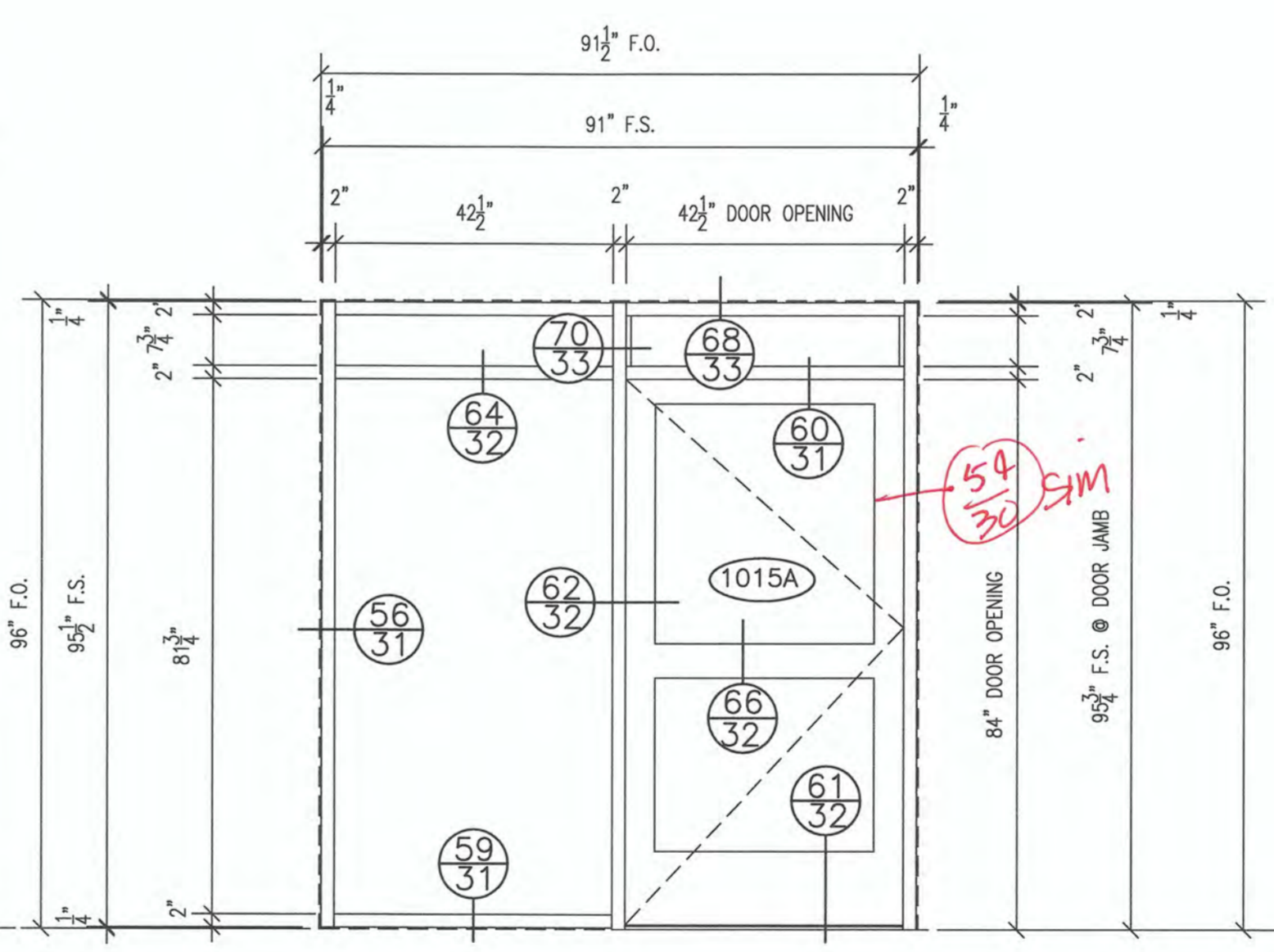
ELEVATION SF18
 SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000 w/ 1/4" ADAPTER
 1 ~ REQUIRED AS DRAWN



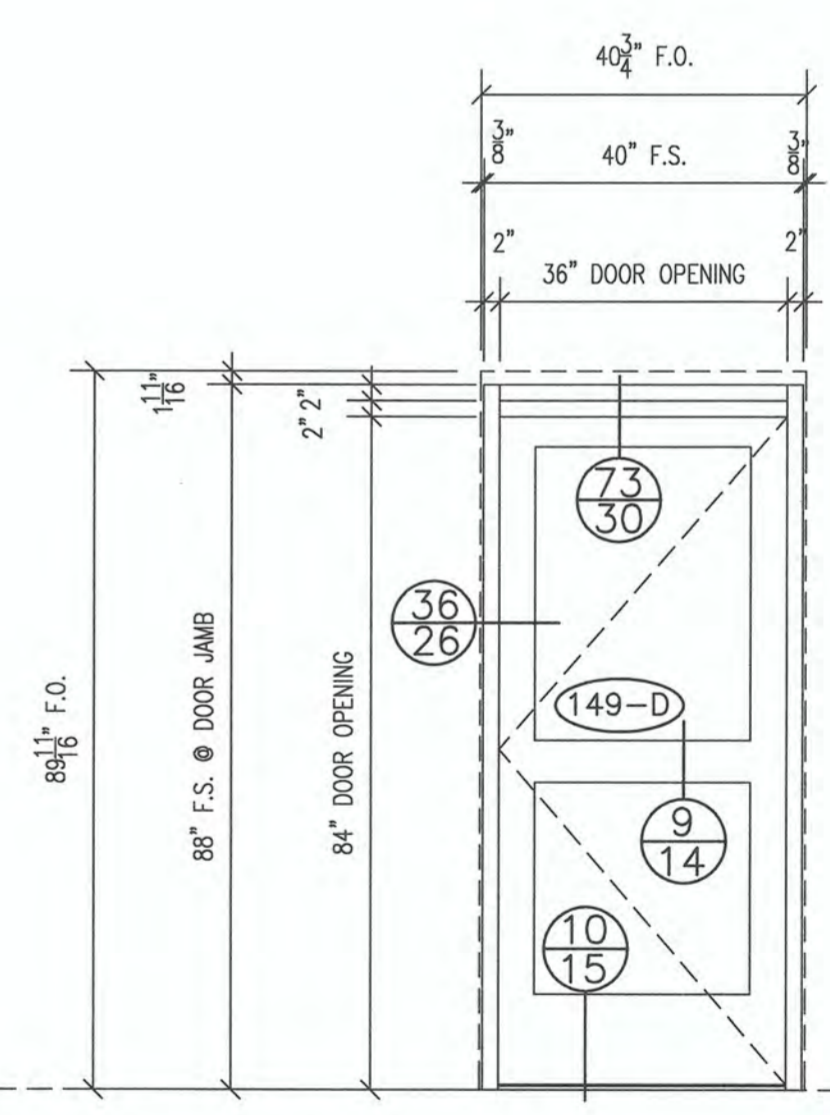
ELEVATION SF11
 SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000 w/ 1/4" ADAPTER
 1 ~ REQUIRED AS DRAWN



ELEVATION SF10
 SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000 w/ 1/4" ADAPTER
 1 ~ REQUIRED AS DRAWN



ELEVATION SF12
 SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000 w/ 1/4" ADAPTER
 1 ~ REQUIRED AS DRAWN



ELEVATION 149-D
 SCALE: 1/2"=1'-0"
 OLDCASTLE FG-3000
 1 ~ REQUIRED AS DRAWN

1ST LEVEL
 128'-3 5/8"

1ST LEVEL
 128'-3 5/8"

ABBREVIATIONS:

M.O.- MASONRY OPENING	F.S.- FRAME SIZE
F.O.- FINISHED OPENING	W.S.- WINDOW SIZE
D.O.- DOOR OPENING	REQ'D- REQUIRED
S.O.- STEEL OPENING	CLR.- CLEAR
A.F.F.- ABOVE FINISHED FLOOR	B.O.S.- BOTTOM OF STEEL
DIM.- DIMENSION	T.O.S.- TOP OF STEEL
Q- CENTER LINE	NTS - NOT TO SCALE

SYMBOLS:

	ELEVATION NUMBER
	DETAIL NUMBER
	SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:

JOB NAME: THE PARK DANFORTH

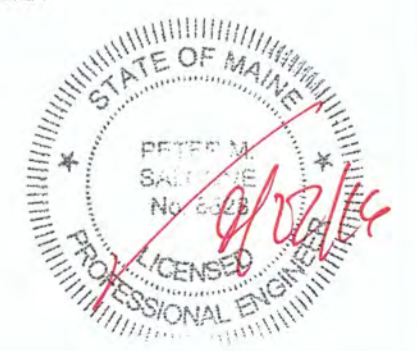
ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS

CONTRACTOR:

DATE: 2/25/16

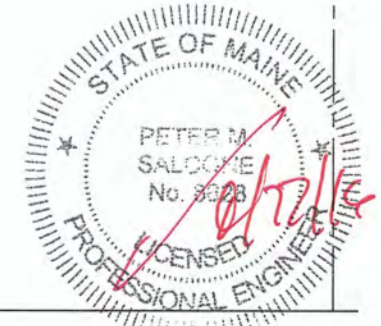
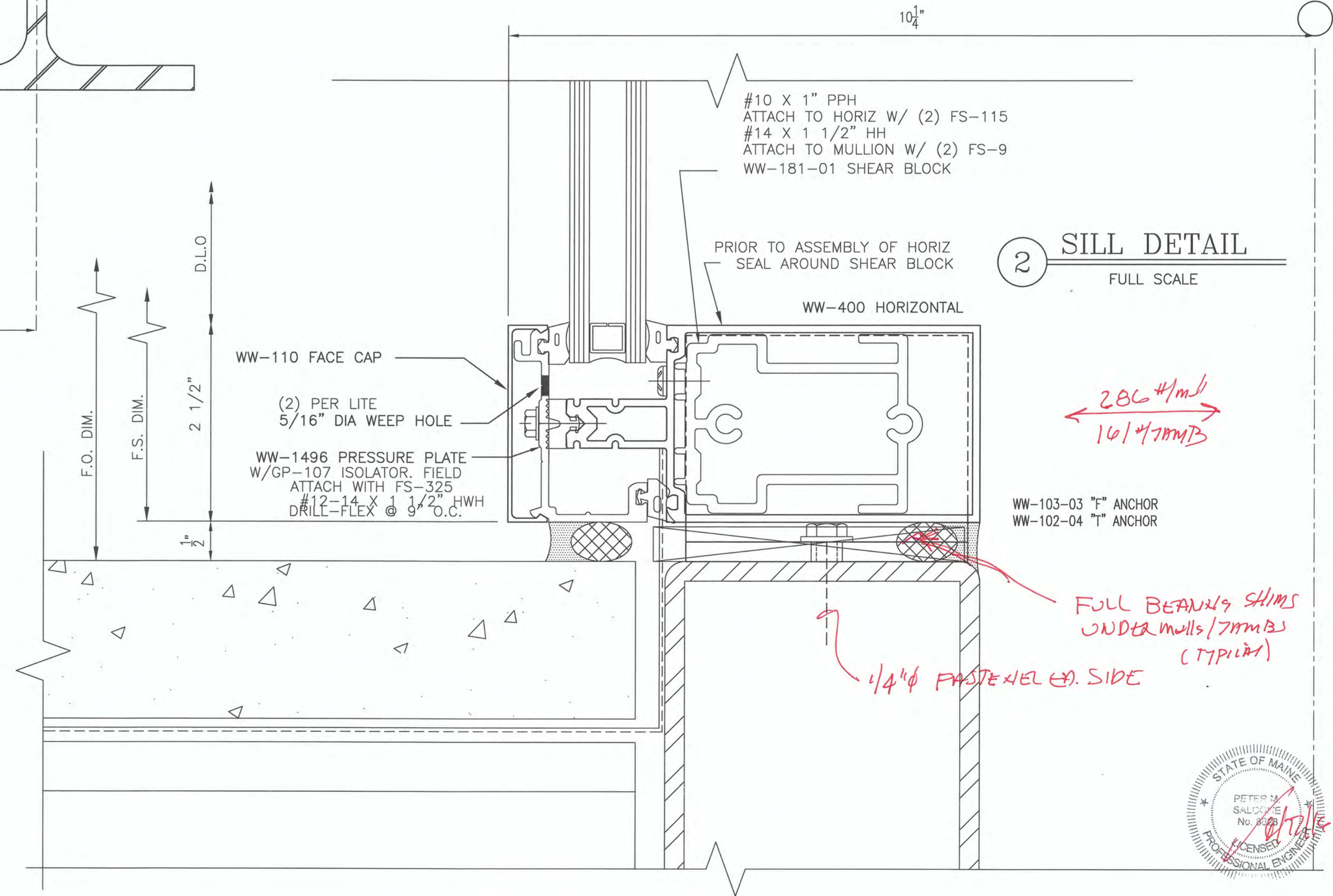
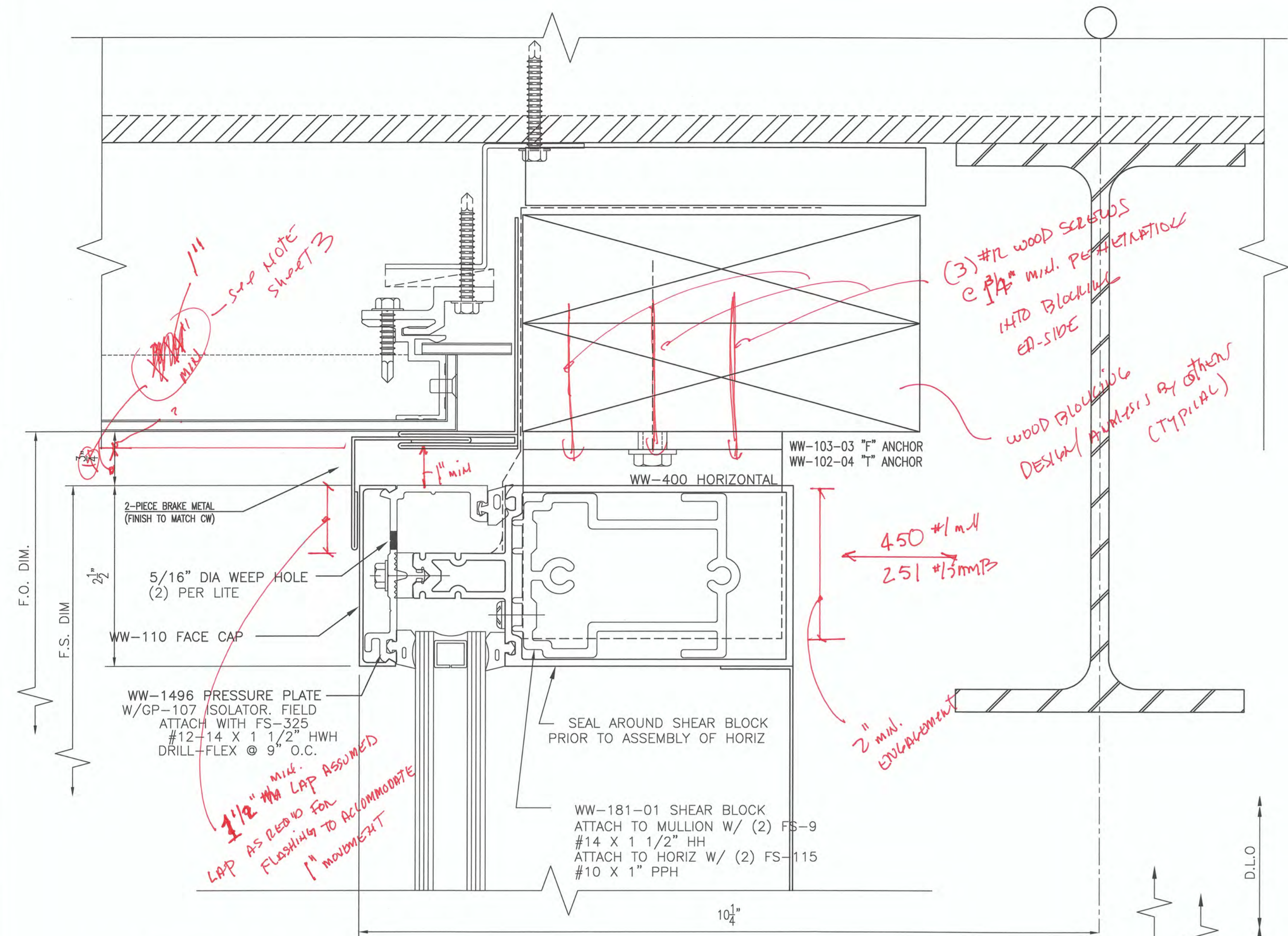
SCALE: AS NOTED

DRAWN BY: W. PEASE



PG Portland Glass.

LAST REVISED: 2/25/16
 JOB NAME: THE PARK DANFORTH



ABBREVIATIONS:

M.O. - MASONRY OPENING	F.S. - FRAME SIZE
F.O. - FINISHED OPENING	W.S. - WINDOW SIZE
D.O. - DOOR OPENING	REQ'D - REQUIRED
S.O. - STEEL OPENING	CLR. - CLEAR
A.F.F. - ABOVE FINISHED FLOOR DIMENSION	B.O.S. - BOTTOM OF STEEL
ENTER LINE	T.O.S. - TOP OF STEEL
	NTS - NOT TO SCALE

SYMBOLS:

	ELEVATION NUMBER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:

JOB NAME: THE PARK DANFORTH

ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS

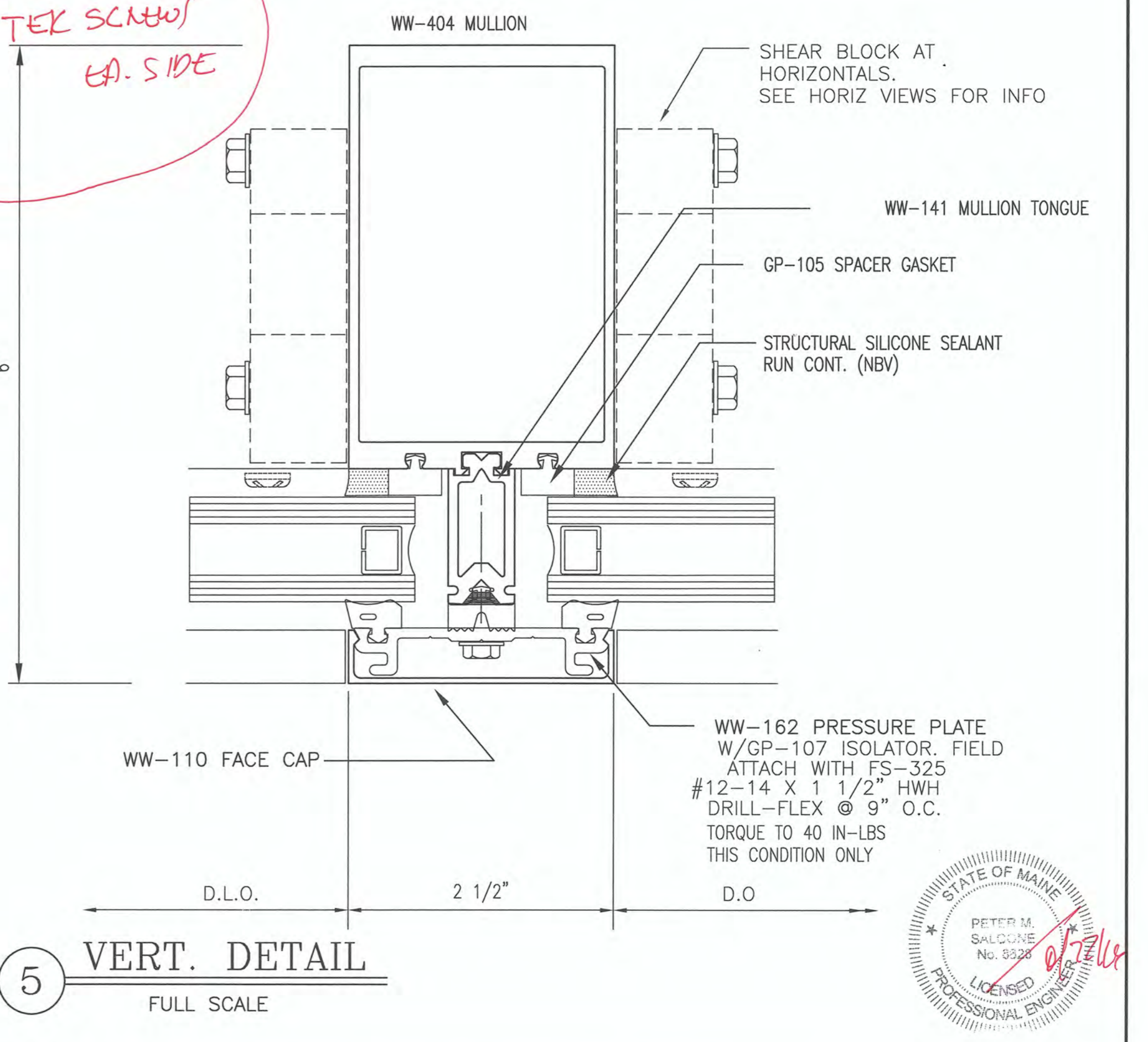
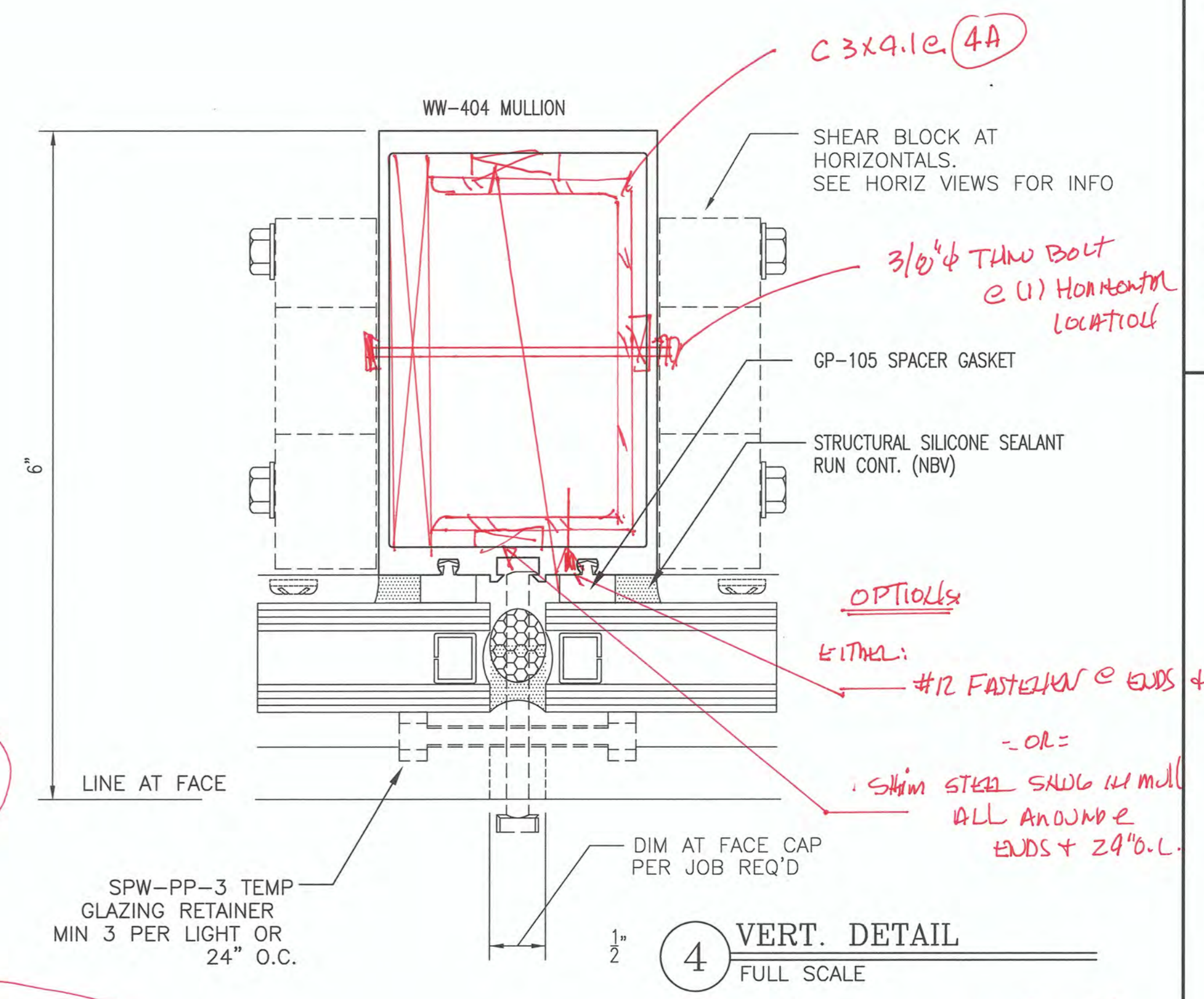
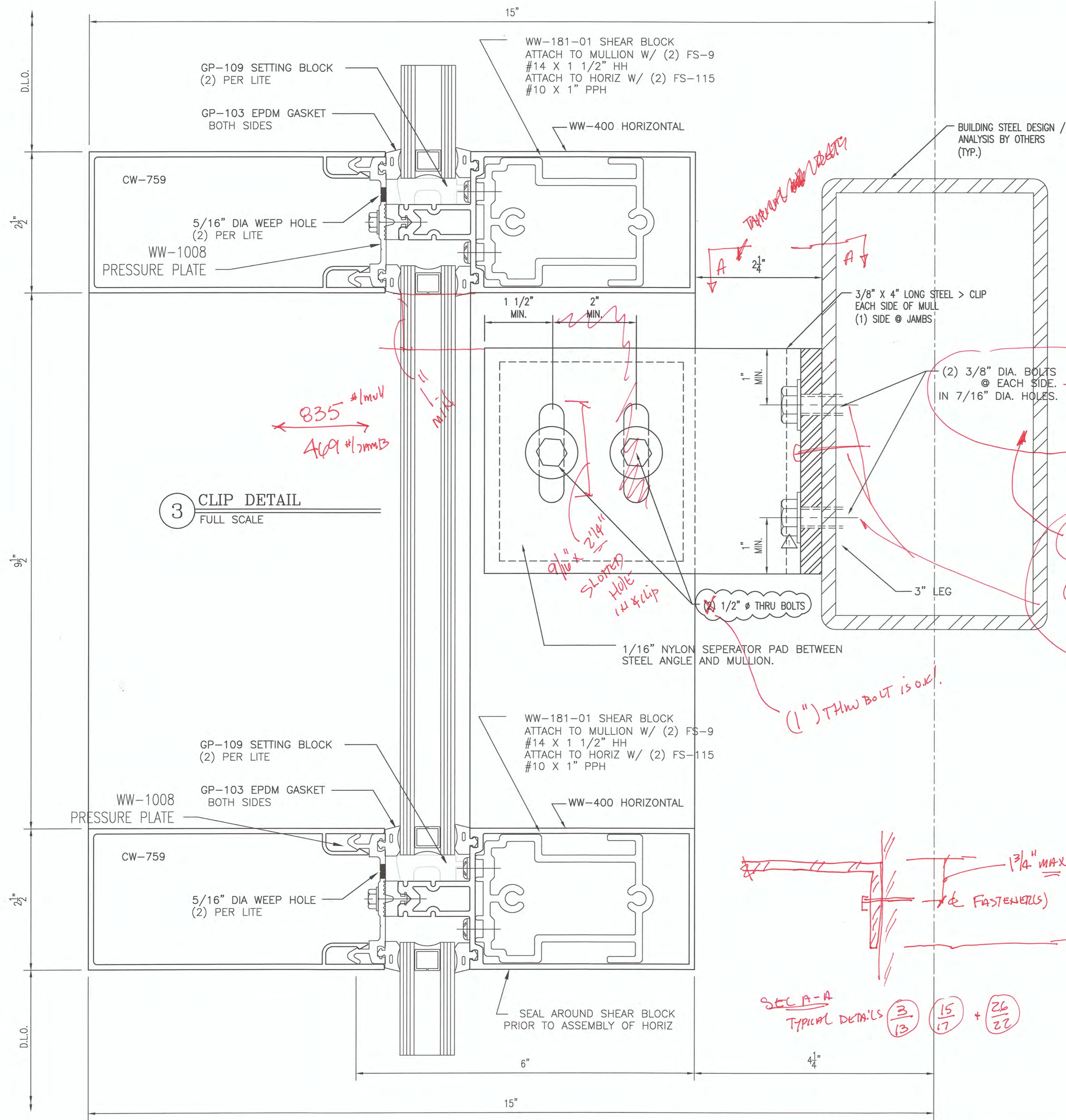
CONTRACTOR:

DATE: 2/25/16

SCALE: AS NOTED

DRAWN BY: W. PEASE

PG Portland Glass.



3 CLIP DETAIL
FULL SCALE

4 VERT. DETAIL
FULL SCALE

5 VERT. DETAIL
FULL SCALE



ABBREVIATIONS:

M.O. - MASONRY OPENING
F.O. - FINISHED OPENING
D.O. - DOOR OPENING
S.O. - STEEL OPENING
A.F.F. - ABOVE FINISHED FLOOR
DIM. - DIMENSION
CL - CENTER LINE

F.S. - FRAME SIZE
W.S. - WINDOW SIZE
REQ'D - REQUIRED
CLR. - CLEAR
B.O.S. - BOTTOM OF STEEL
T.O.S. - TOP OF STEEL
NTS - NOT TO SCALE

SYMBOLS:

ELEVATION NUMBER
SHEET NUMBER

DETAIL NUMBER
SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:
3			15		
13			17		
			26		
			22		

JOB NAME:

THE PARK DANFORTH

ARCHITECT:

LAVALLEE BRENSINGER ARCHITECTS

CONTRACTOR:

DATE:

2/25/16

SCALE:

AS NOTED

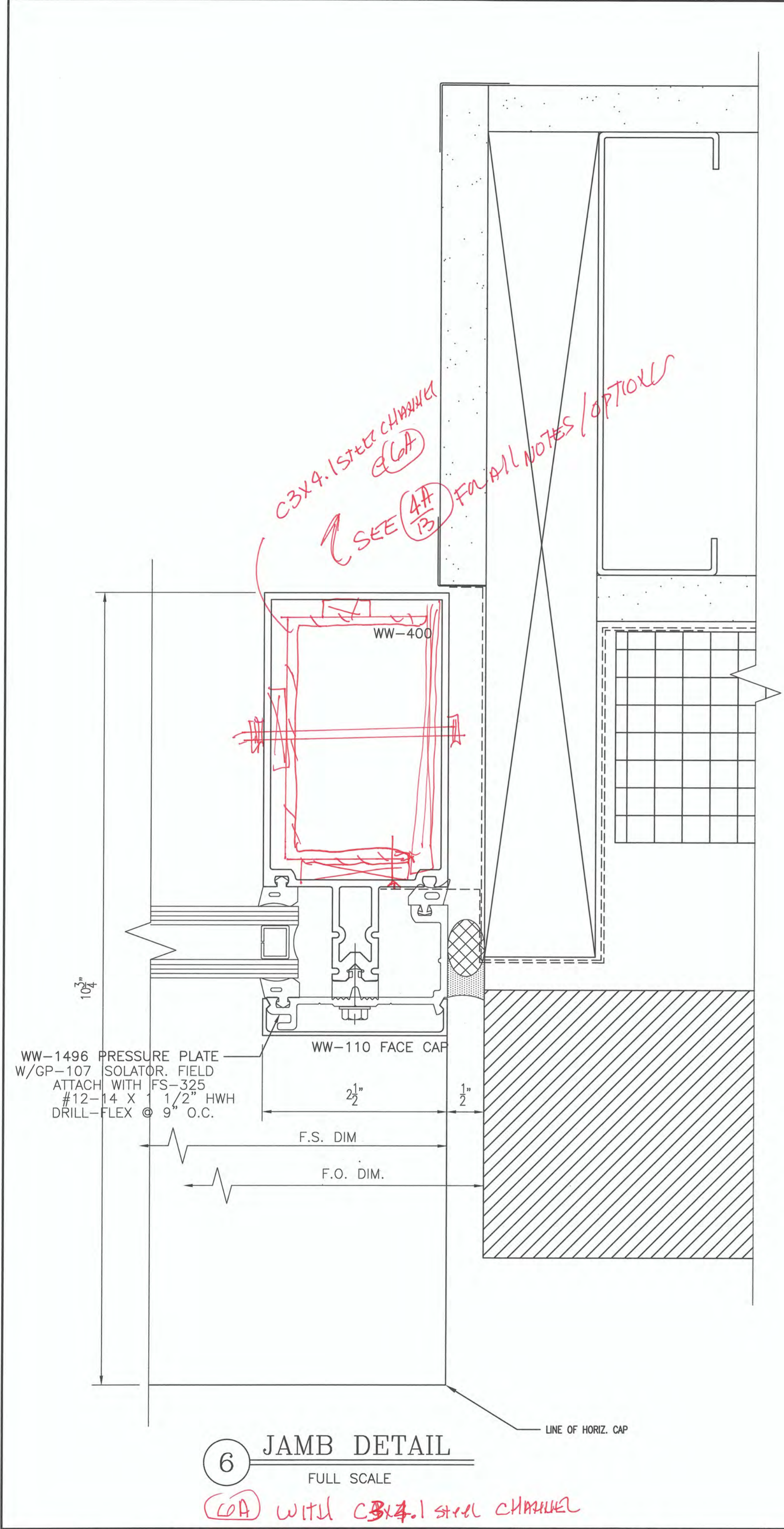
DRAWN BY:

W. PEASE

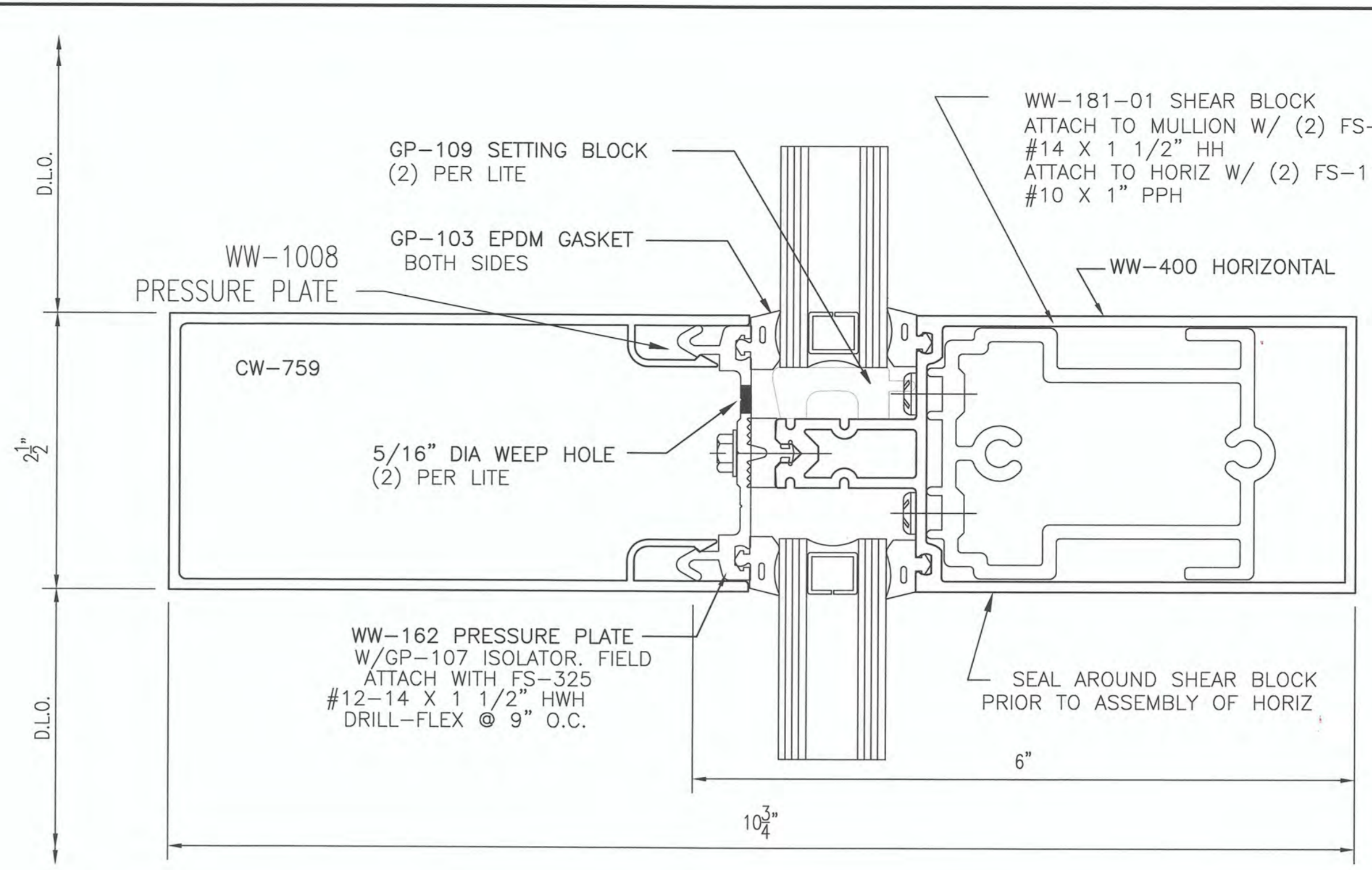
SHEET NUMBER

13 OF 33

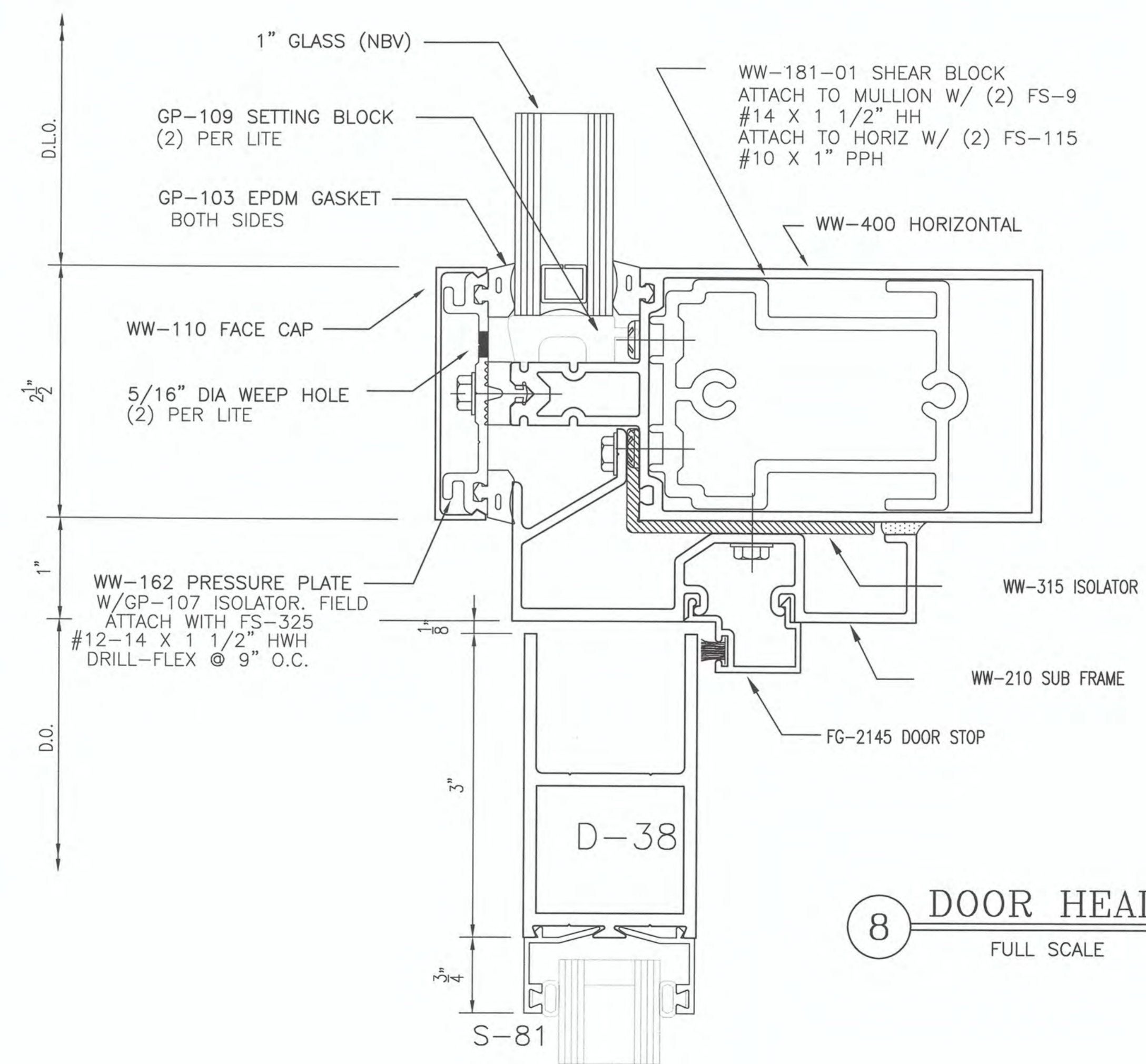
PG Portland Glass.



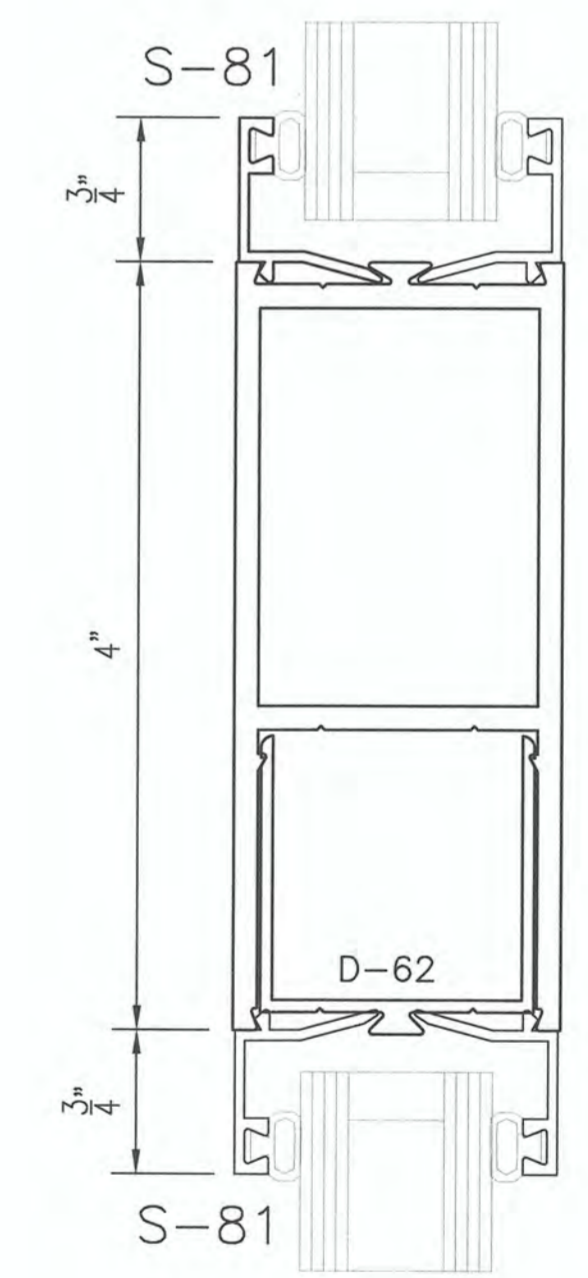
6 JAMB DETAIL
FULL SCALE



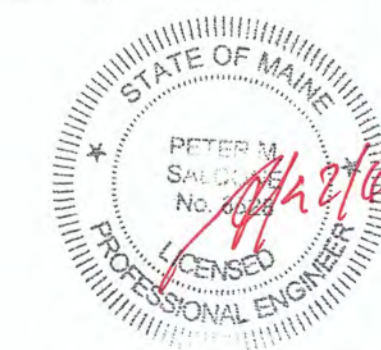
7 HORIZ. DETAIL
FULL SCALE



8 DOOR HEADER
FULL SCALE



9 MIDRAIL
FULL SCALE



ABBREVIATIONS:	
M.O. - MASONRY OPENING	F.S. - FRAME SIZE
F.O. - FINISHED OPENING	W.S. - WINDOW SIZE
D.O. - DOOR OPENING	REQ'D - REQUIRED
S.O. - STEEL OPENING	CLR. - CLEAR
A.F.F. - ABOVE FINISHED FLOOR	B.O.S. - BOTTOM OF STEEL
DIM. - DIMENSION	T.O.S. - TOP OF STEEL
C - CENTER LINE	NTS - NOT TO SCALE

SYMBOLS:	
	ELEVATION NUMBER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER

REVISIONS:			
NO.	DATE:	DESCRIPTION:	
1			
2			
3			
4			
5			
6			

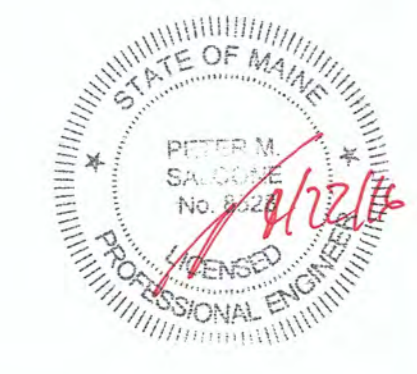
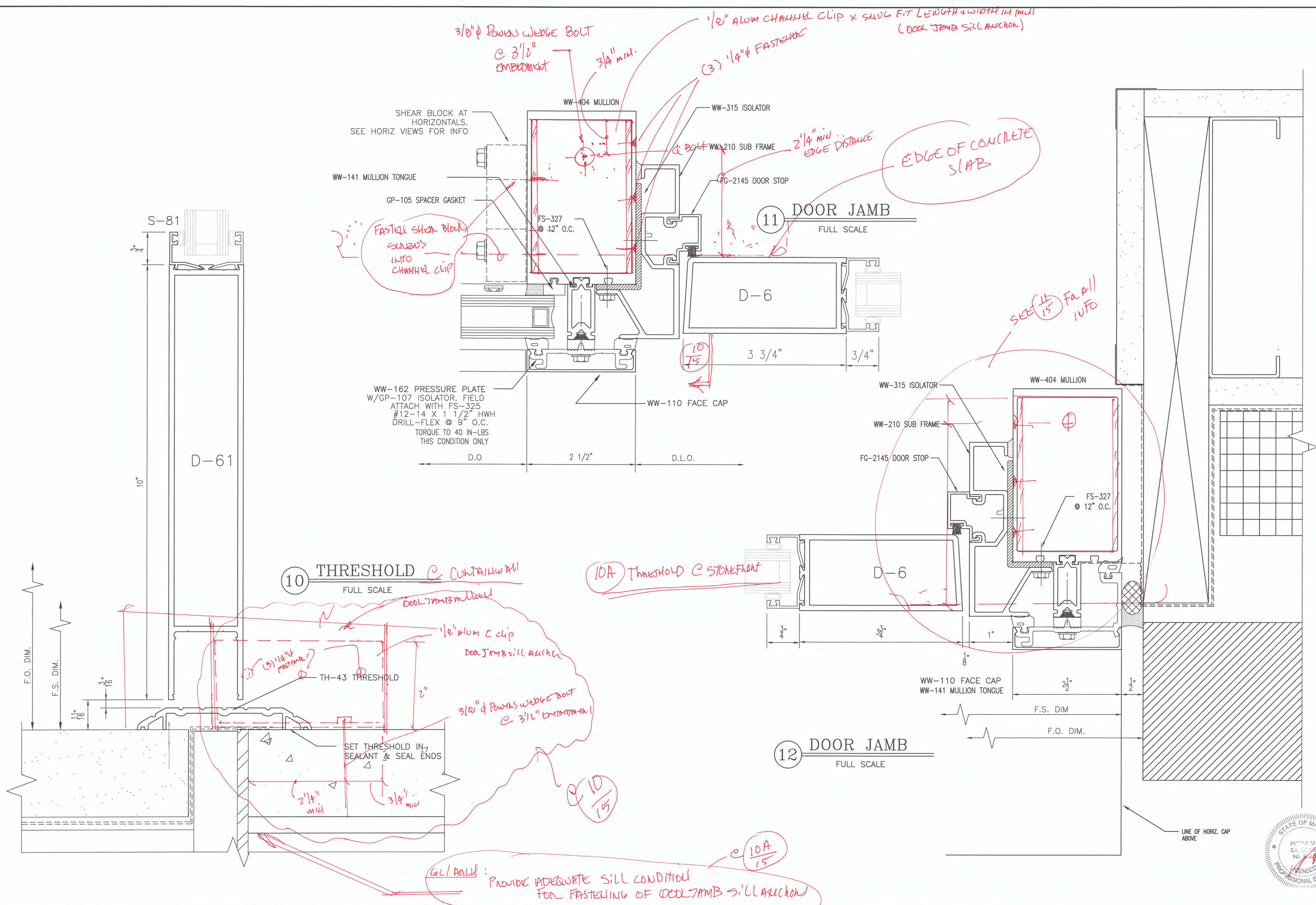
JOB NAME:	THE PARK DANFORTH
ARCHITECT:	LAVALLEE BRENSINGER ARCHITECTS
CONTRACTOR:	

DATE:	2/25/16
SCALE:	AS NOTED
DRAWN BY:	W. PEASE

SHEET NUMBER	14 OF 33
--------------	----------

PG Portland Glass.

LAST REVISED: 2/25/16
 JOB NAME: THE PARK DANFORTH



ABBREVIATIONS:

M.O. - MASONRY OPENING	F.S. - FRAME SIZE
F.O. - FINISHED OPENING	W.S. - WINDOW SIZE
D.O. - DOOR OPENING	REQ'D - REQUIRED
S.O. - STEEL OPENING	CLR. - CLEAR
A.F.F. - ABOVE FINISHED FLOOR	B.O.S. - BOTTOM OF STEEL
DIM. - DIMENSION	T.O.S. - TOP OF STEEL
Q - CENTER LINE	NTS - NOT TO SCALE

SYMBOLS:

	ELEVATION NUMBER
	DETAIL NUMBER
	SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:
1					
2					
3					
4					
5					

JOB NAME: THE PARK DANFORTH

ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS

CONTRACTOR:

DATE: 2/25/16

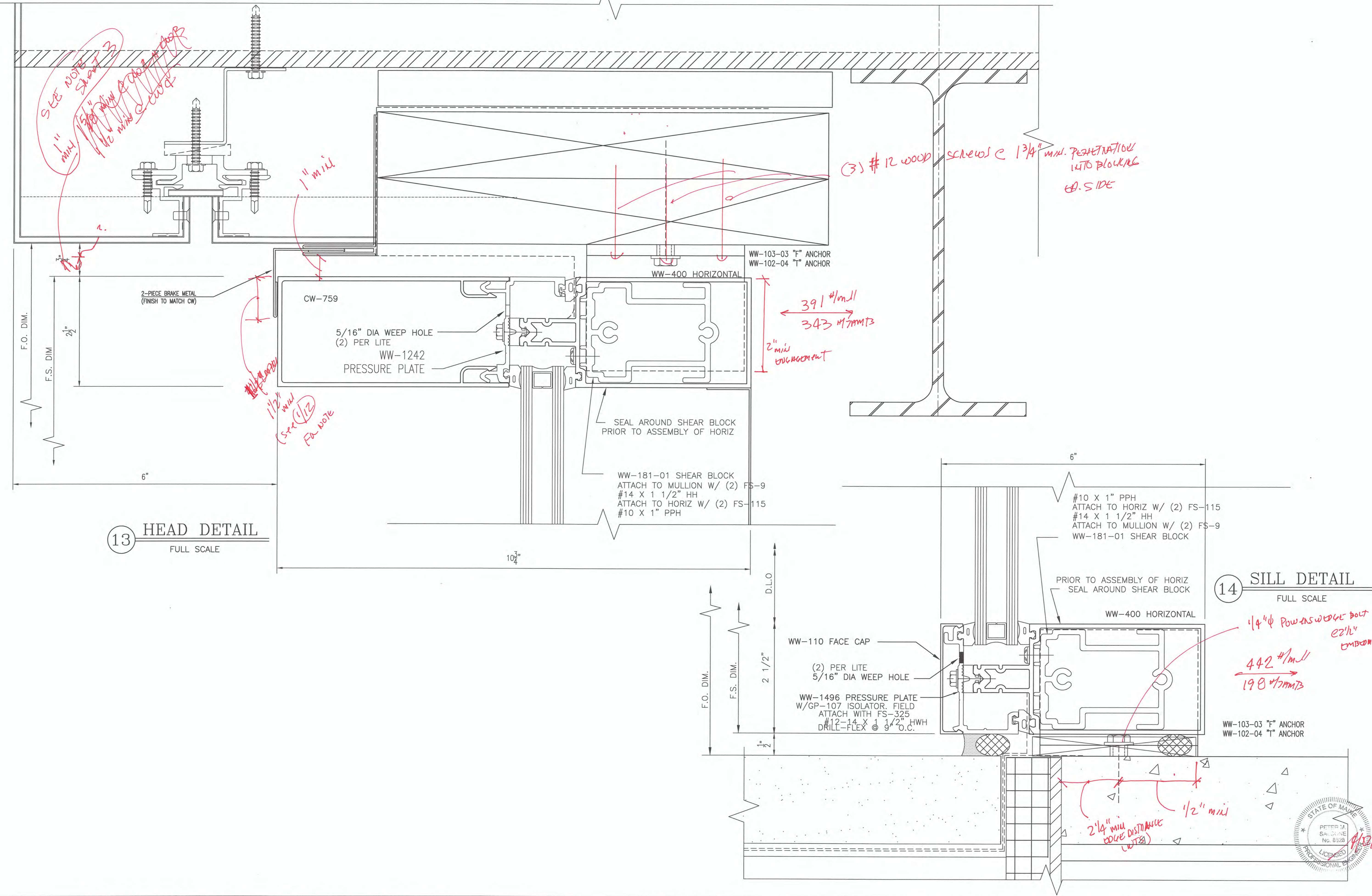
SCALE: AS NOTED

DRAWN BY: W. PEASE

SHEET NUMBER: 15 OF 33

PG Portland Glass.

LAST REVISED: 2/25/16
 JOB NAME: THE PARK DANFORTH



ABBREVIATIONS:

M.O. - MASONRY OPENING	F.S. - FRAME SIZE
F.O. - FINISHED OPENING	W.S. - WINDOW SIZE
D.O. - DOOR OPENING	REQ'D - REQUIRED
S.O. - STEEL OPENING	CLR. - CLEAR
A.F.F. - ABOVE FINISHED FLOOR	B.O.S. - BOTTOM OF STEEL
DIM. - DIMENSION	T.O.S. - TOP OF STEEL
CL - CENTER LINE	NTS - NOT TO SCALE

SYMBOLS:

	ELEVATION NUMBER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:

JOB NAME: THE PARK DANFORTH

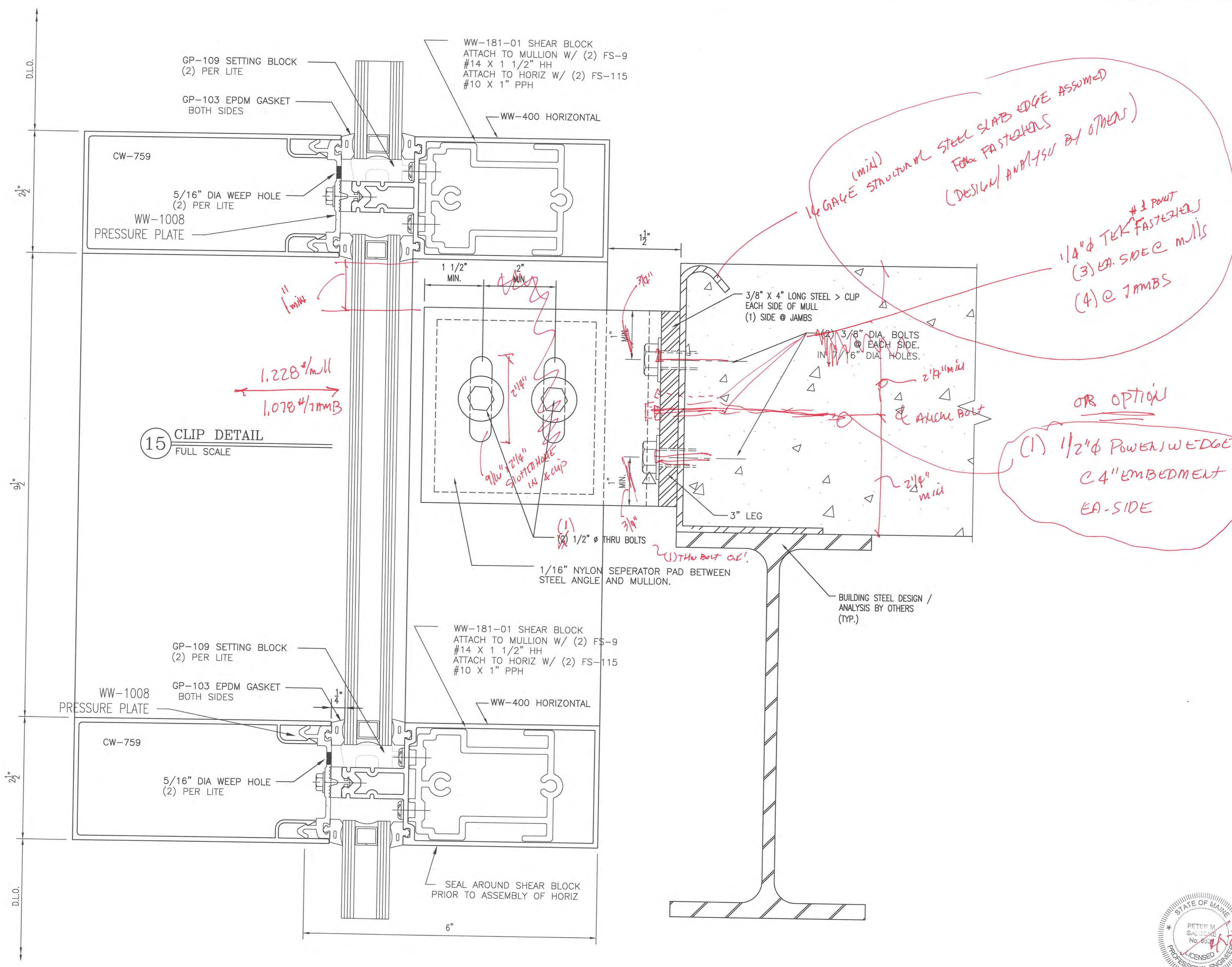
ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS

CONTRACTOR:

DATE: 2/25/16

SCALE: AS NOTED

DRAWN BY: W. PEASE



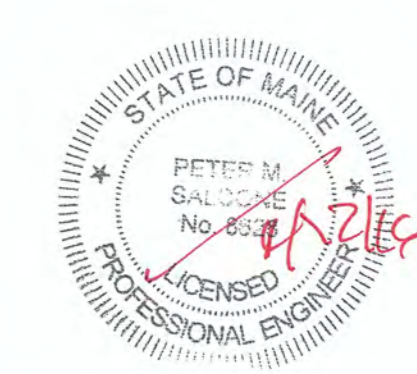
15 CLIP DETAIL
FULL SCALE

PG Portland Glass.

PG PORTLAND GLASS
832 CONGRESS STREET
PORTLAND, MAINE 04102
PHONE: 207-774-9851
FAX: 207-774-9855

LAST REVISED: 2/25/16

JOB NAME: THE PARK DANFORTH



ABBREVIATIONS:

M.O. - MASONRY OPENING	F.S. - FRAME SIZE
F.O. - FINISHED OPENING	W.S. - WINDOW SIZE
D.O. - DOOR OPENING	REQ'D - REQUIRED
S.O. - STEEL OPENING	CLR. - CLEAR
A.F.F. - ABOVE FINISHED FLOOR	B.O.S. - BOTTOM OF STEEL
DIM. - DIMENSION	T.O.S. - TOP OF STEEL
CL - CENTER LINE	NTS - NOT TO SCALE

SYMBOLS:

	ELEVATION NUMBER
	DETAIL NUMBER
	SHEET NUMBER

REVISIONS:

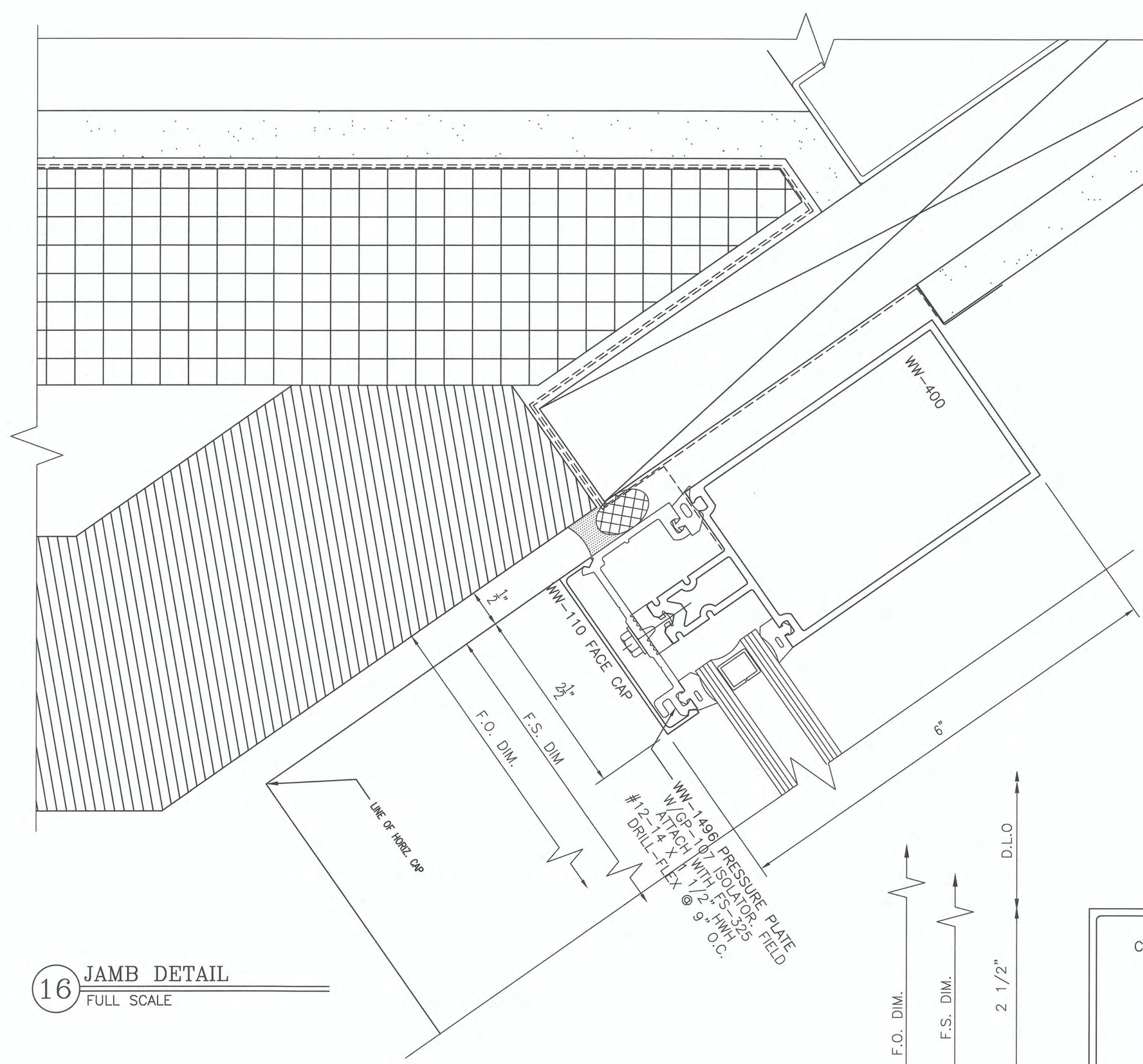
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JOB NAME:	THE PARK DANFORTH	DATE:	2/25/16	SHEET NUMBER	17 of 33
ARCHITECT:	LAVALLEE BRENSINGER ARCHITECTS	SCALE:	AS NOTED		
CONTRACTOR:		DRAWN BY:	W. PEASE		

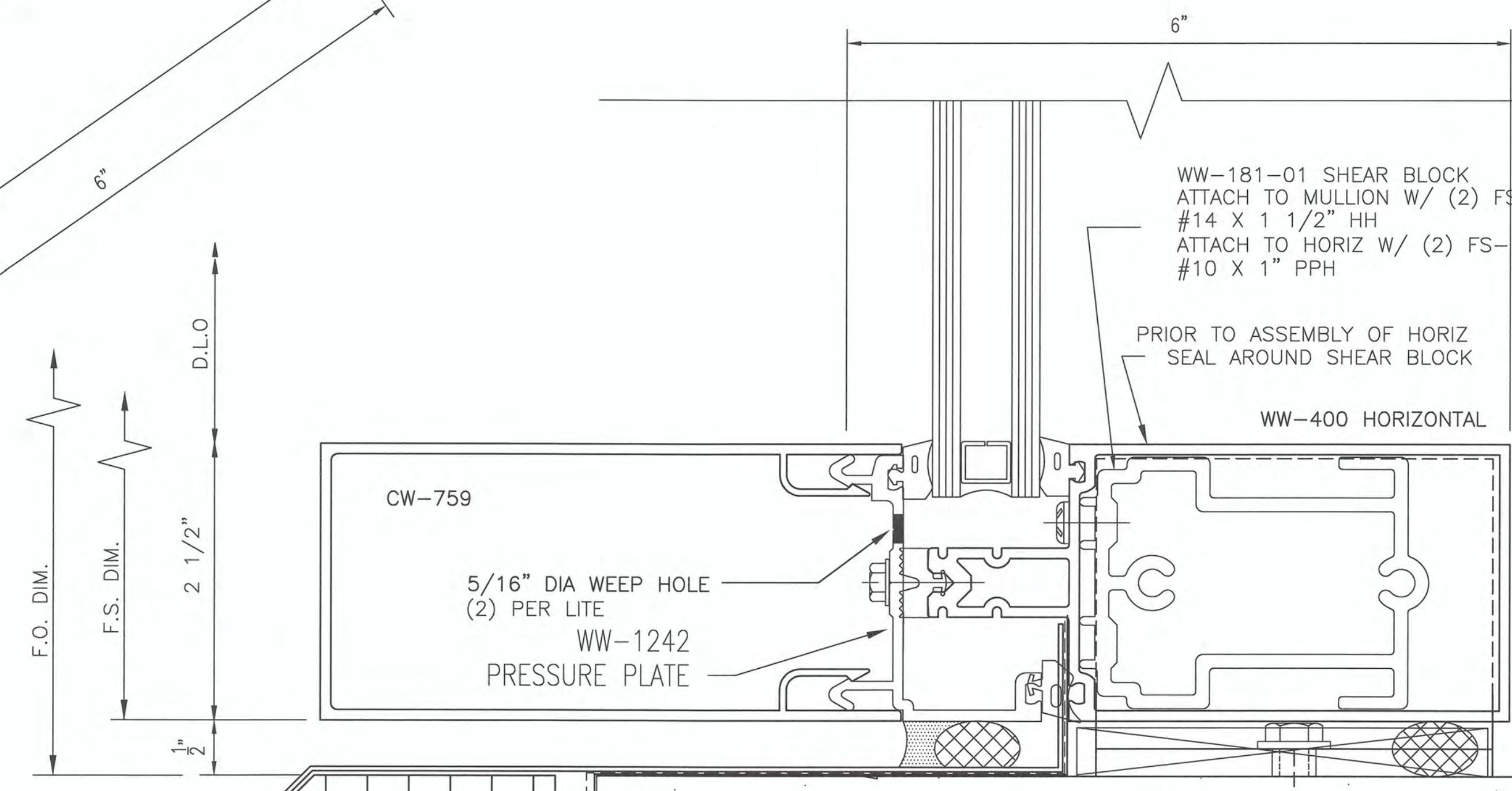
PG PORTLAND GLASS
 832 CONGRESS STREET
 PORTLAND, MAINE 04102
 PHONE: 207-774-9851
 FAX: 207-774-9855

LAST REVISED: 2/23/16
 JOB NAME: THE PARK DANFORTH

PG Portland Glass.



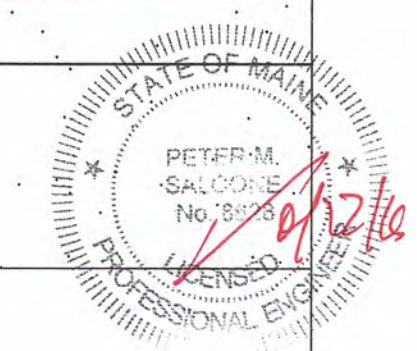
16 JAMB DETAIL
 FULL SCALE



17 SILL DETAIL
 FULL SCALE

401 #1m/d
 352 #1m/d

1/4" PDOWN WEDGE BOLT @
 2 1/2" EMBEDEDMENT
 EA. SIDE.



ABBREVIATIONS:

M.O. - MASONRY OPENING	F.S. - FRAME SIZE
F.O. - FINISHED OPENING	W.S. - WINDOW SIZE
D.O. - DOOR OPENING	REQ'D - REQUIRED
S.O. - STEEL OPENING	CLR. - CLEAR
A.F.F. - ABOVE FINISHED FLOOR	B.O.S. - BOTTOM OF STEEL
DIM. - DIMENSION	T.O.S. - TOP OF STEEL
CL - CENTER LINE	NTS - NOT TO SCALE

SYMBOLS:

	ELEVATION NUMBER
	SHEET NUMBER
	DETAIL NUMBER
	SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:
1			1		
2			2		
3			3		
4			4		
5			5		

JOB NAME: THE PARK DANFORTH

ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS

CONTRACTOR:

DATE: 2/25/16

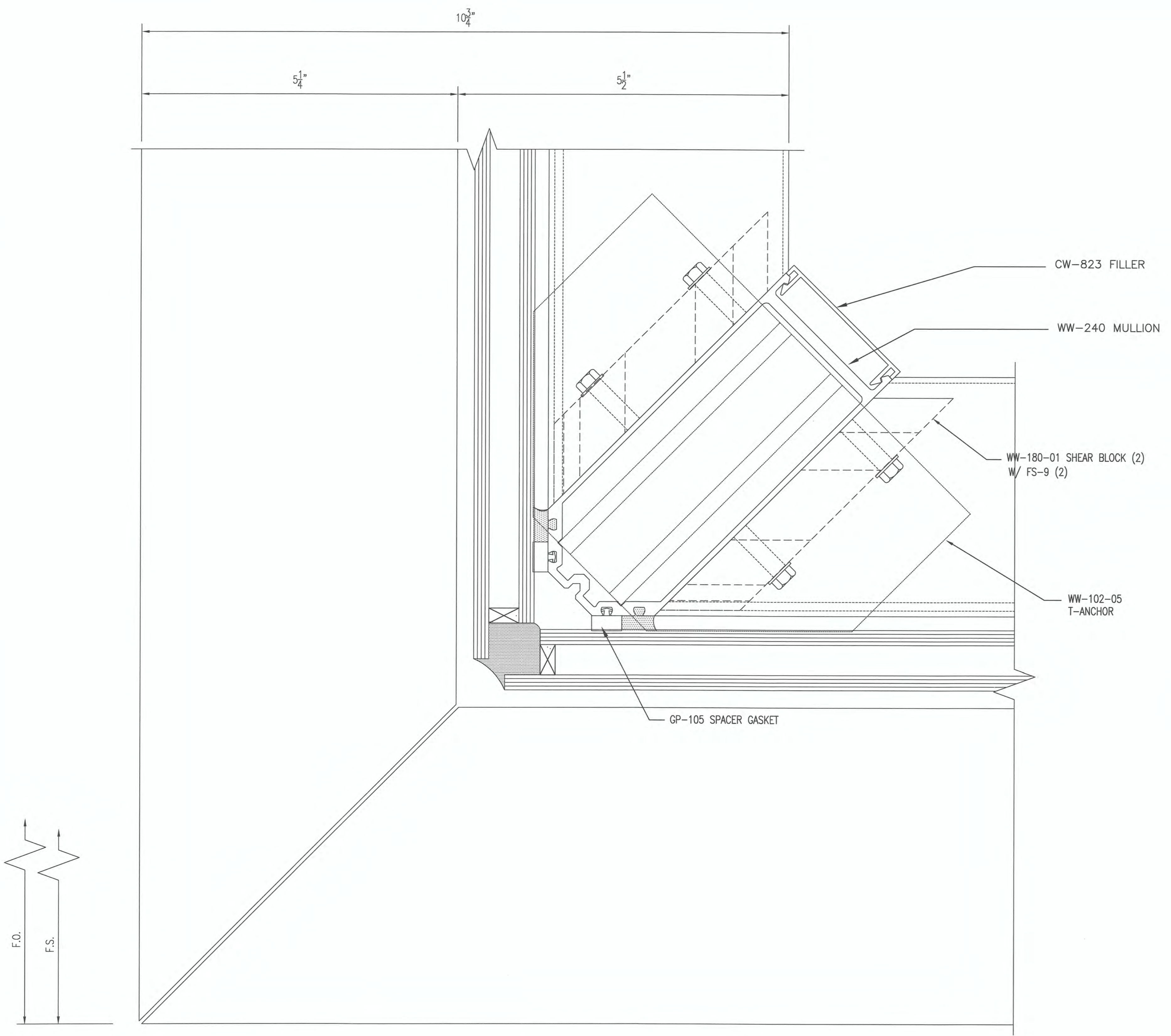
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DRAWN BY: W. PEASE

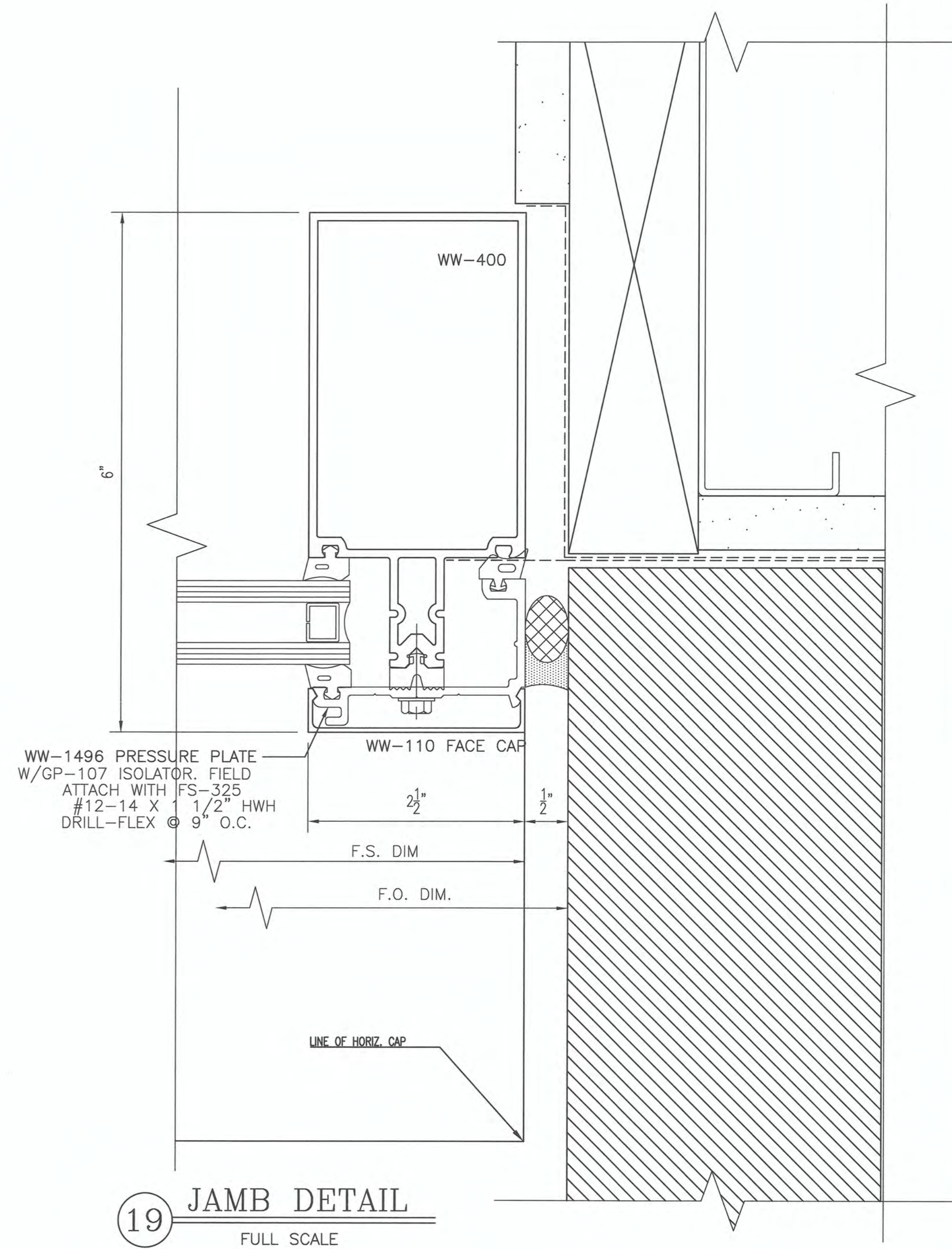
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PG Portland Glass.

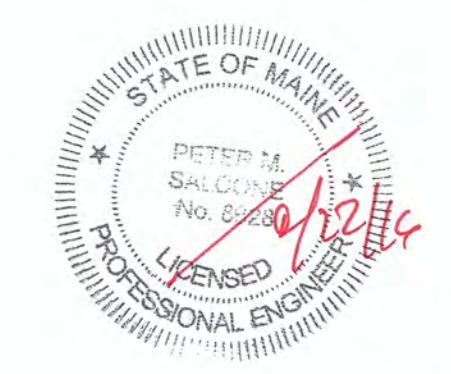
LAST REVISED: 2/25/16
 JOB NAME: THE PARK DANFORTH



18 CORNER DETAIL
 FULL SCALE



19 JAMB DETAIL
 FULL SCALE



ABBREVIATIONS:

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SYMBOLS:

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	DETAIL NUMBER SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:

JOB NAME: THE PARK DANFORTH

ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS

CONTRACTOR:

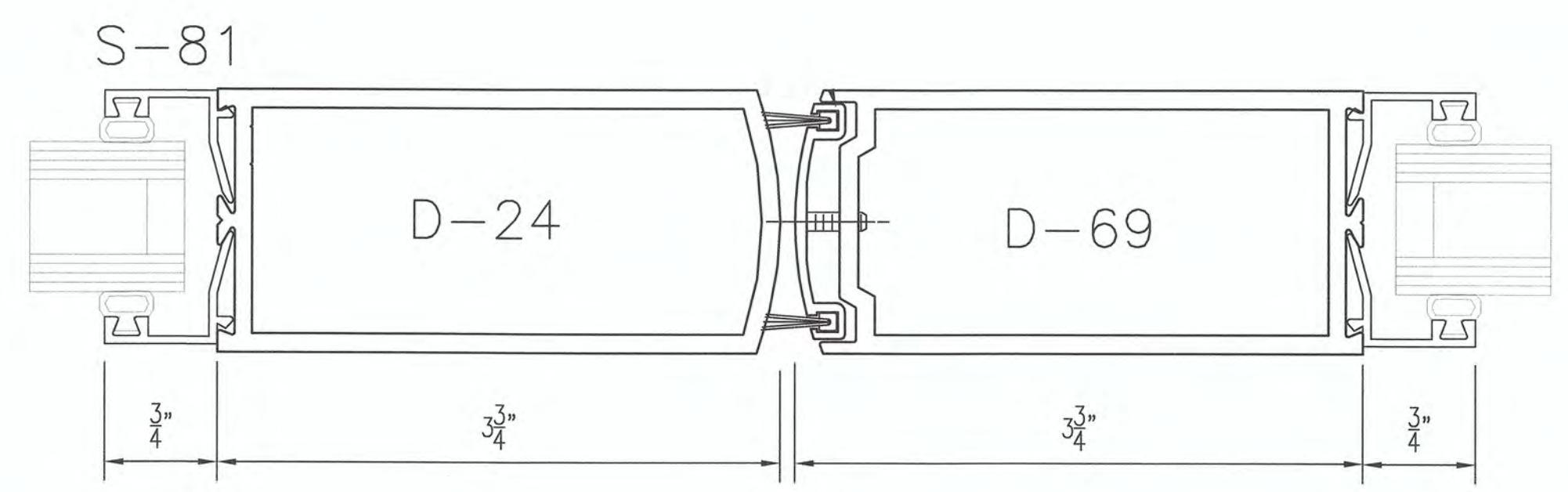
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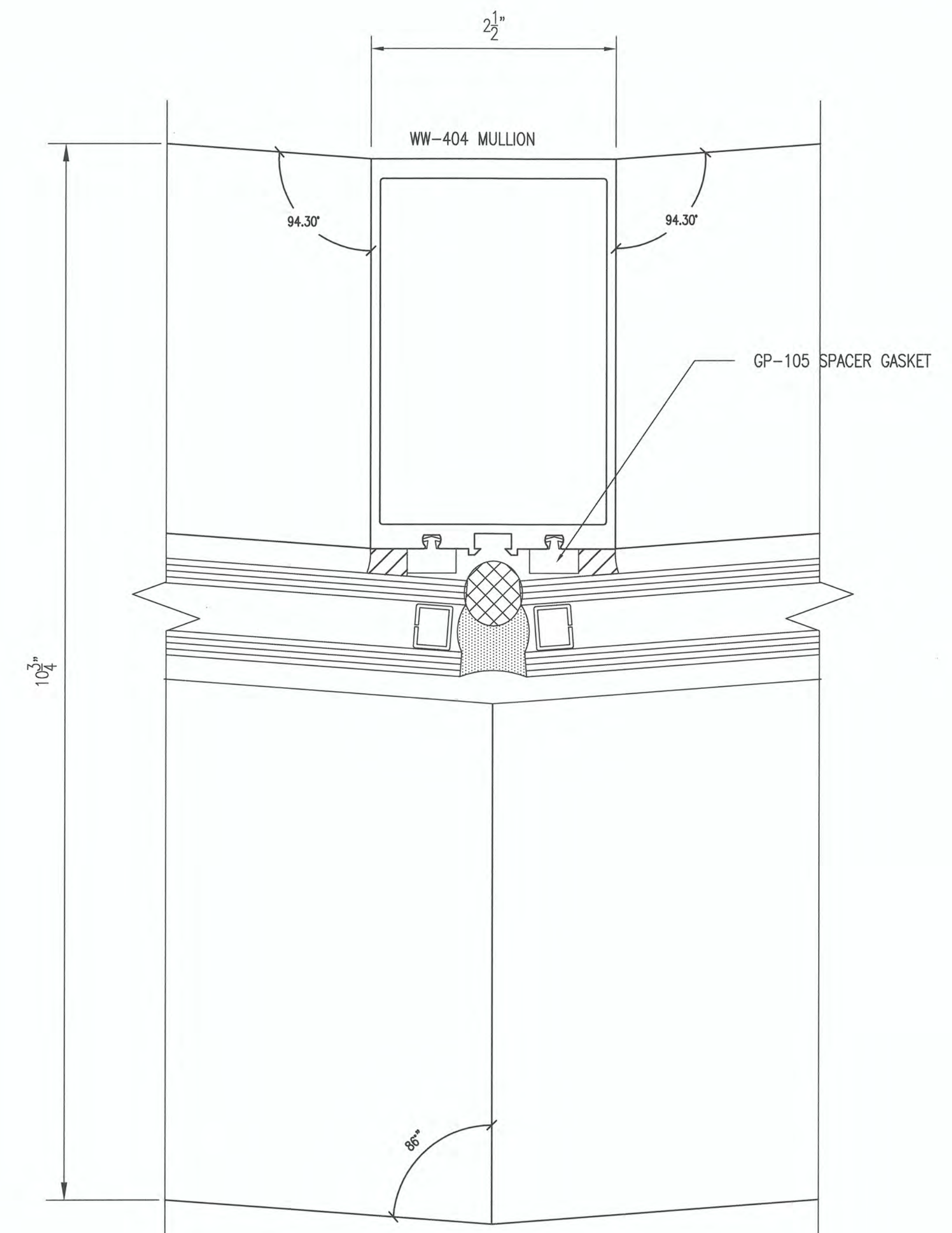
DRAWN BY: W. PEASE

PG Portland Glass.

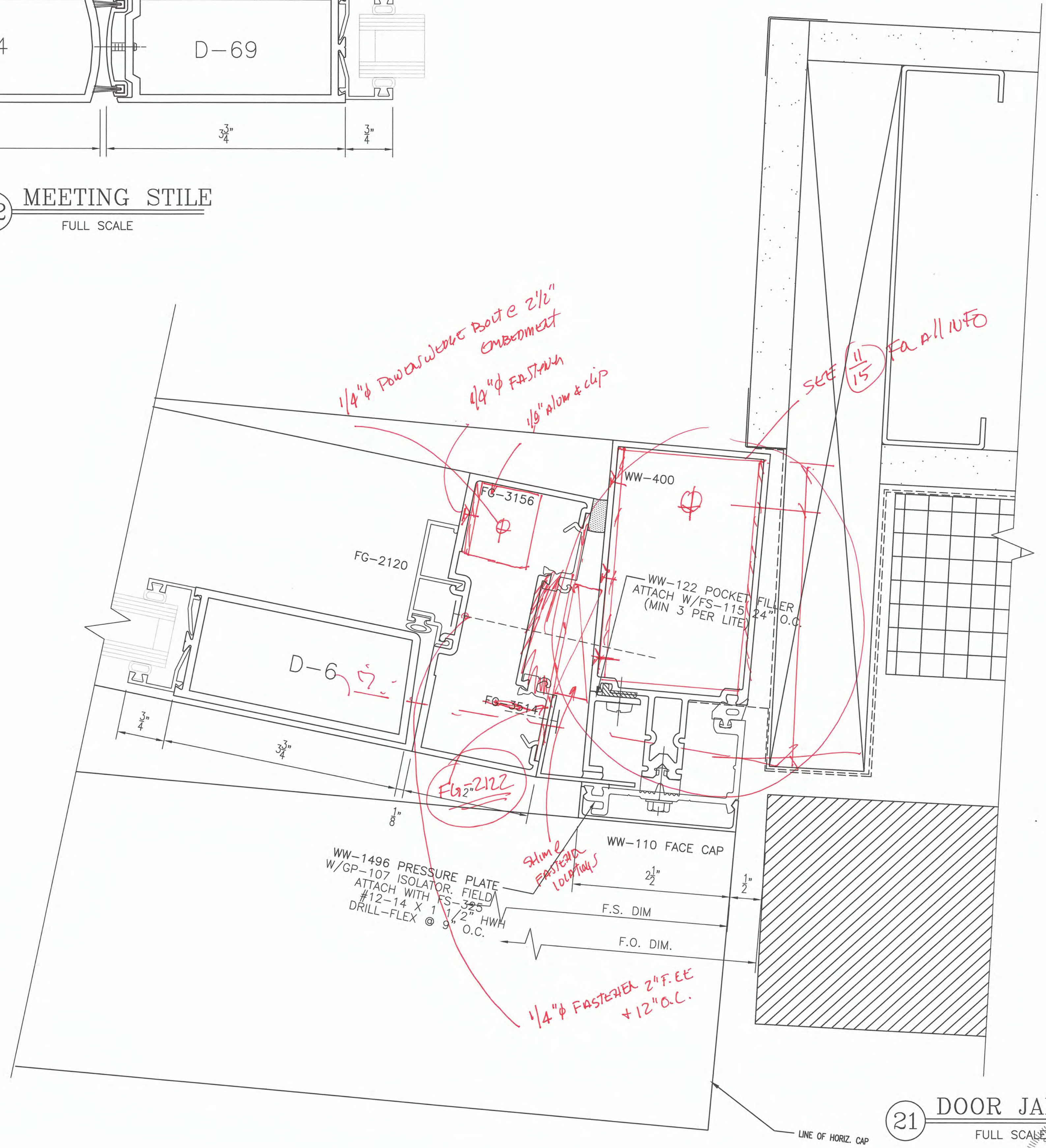
JOB NAME: THE PARK DANFORTH
 LAST REVISED: 2/25/16



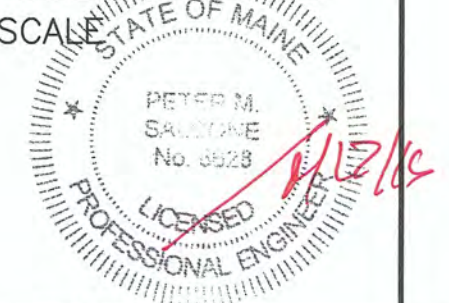
22 MEETING STILE
 FULL SCALE



20 VERT. DETAIL
 FULL SCALE



21 DOOR JAMB
 FULL SCALE



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A.F.F. - ABOVE FINISHED FLOOR	B.O.S. - BOTTOM OF STEEL
DIM. - DIMENSION	T.O.S. - TOP OF STEEL
C - CENTER LINE	NTS - NOT TO SCALE

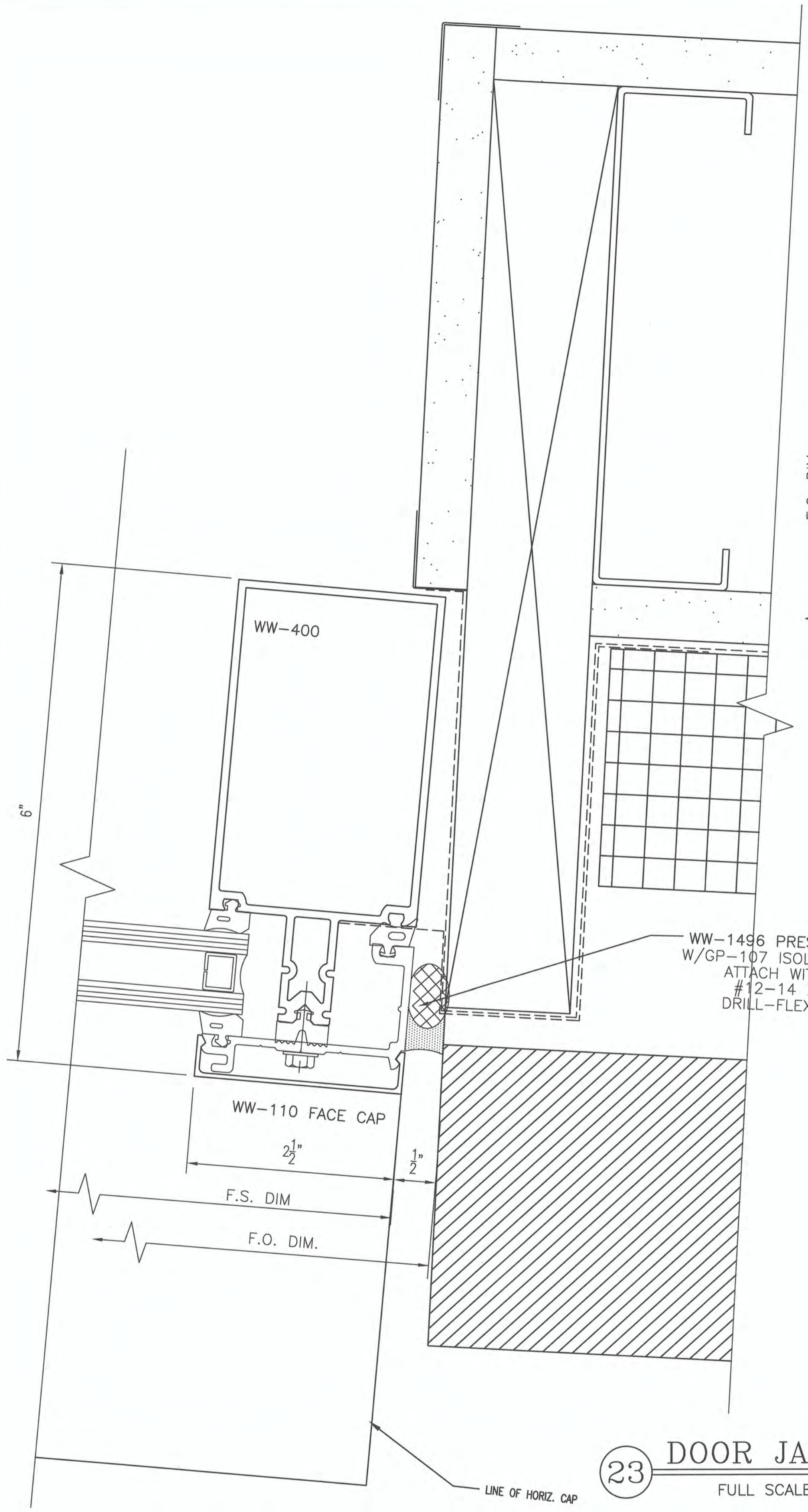
SYMBOLS:	
	ELEVATION NUMBER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER

REVISIONS:			
NO.	DATE:	DESCRIPTION:	

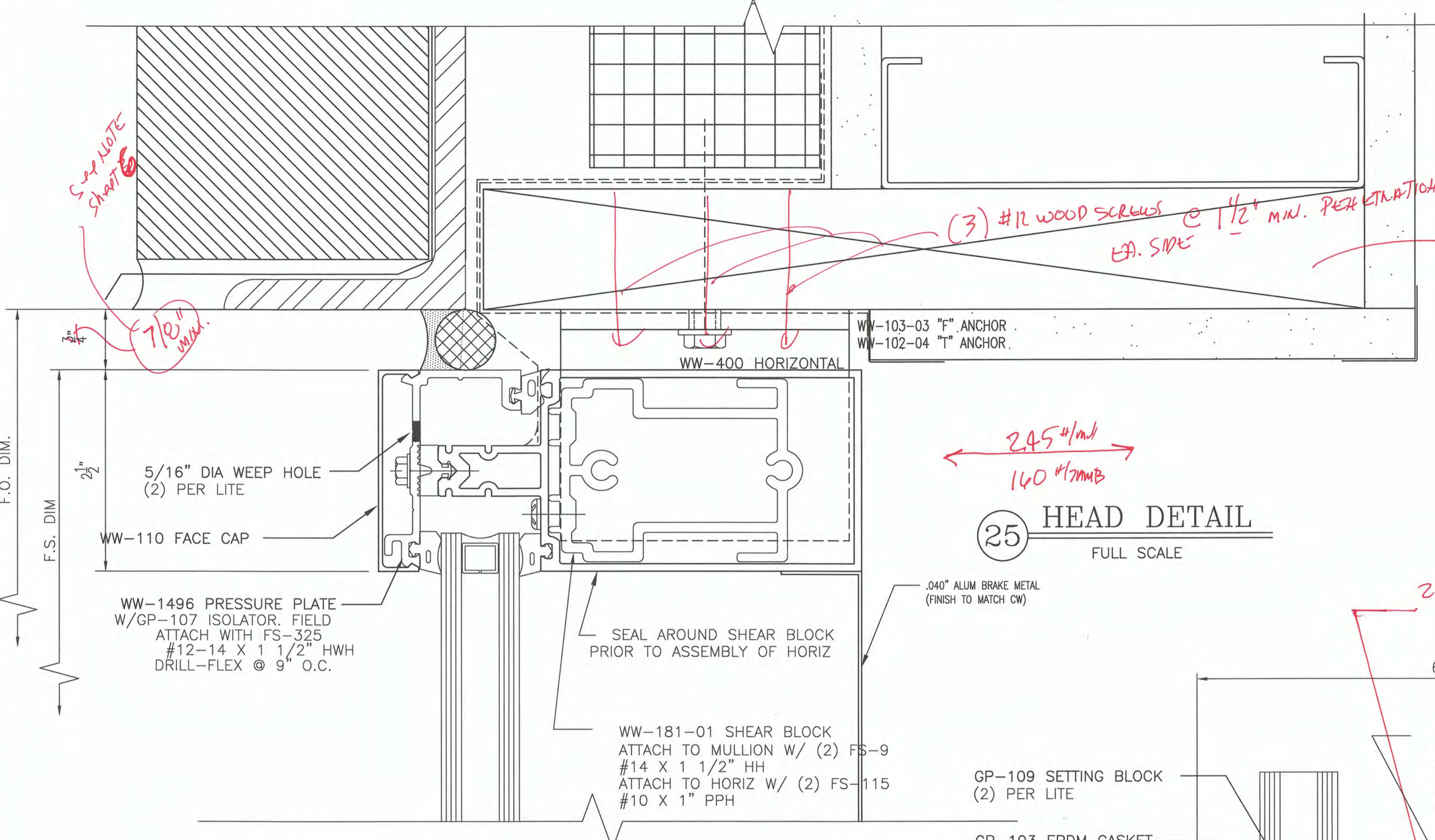
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ARCHITECT:	LAVALLEE BRENSINGER ARCHITECTS
CONTRACTOR:	

DATE:	2/25/16
SCALE:	AS NOTED
DRAWN BY:	W. PEASE

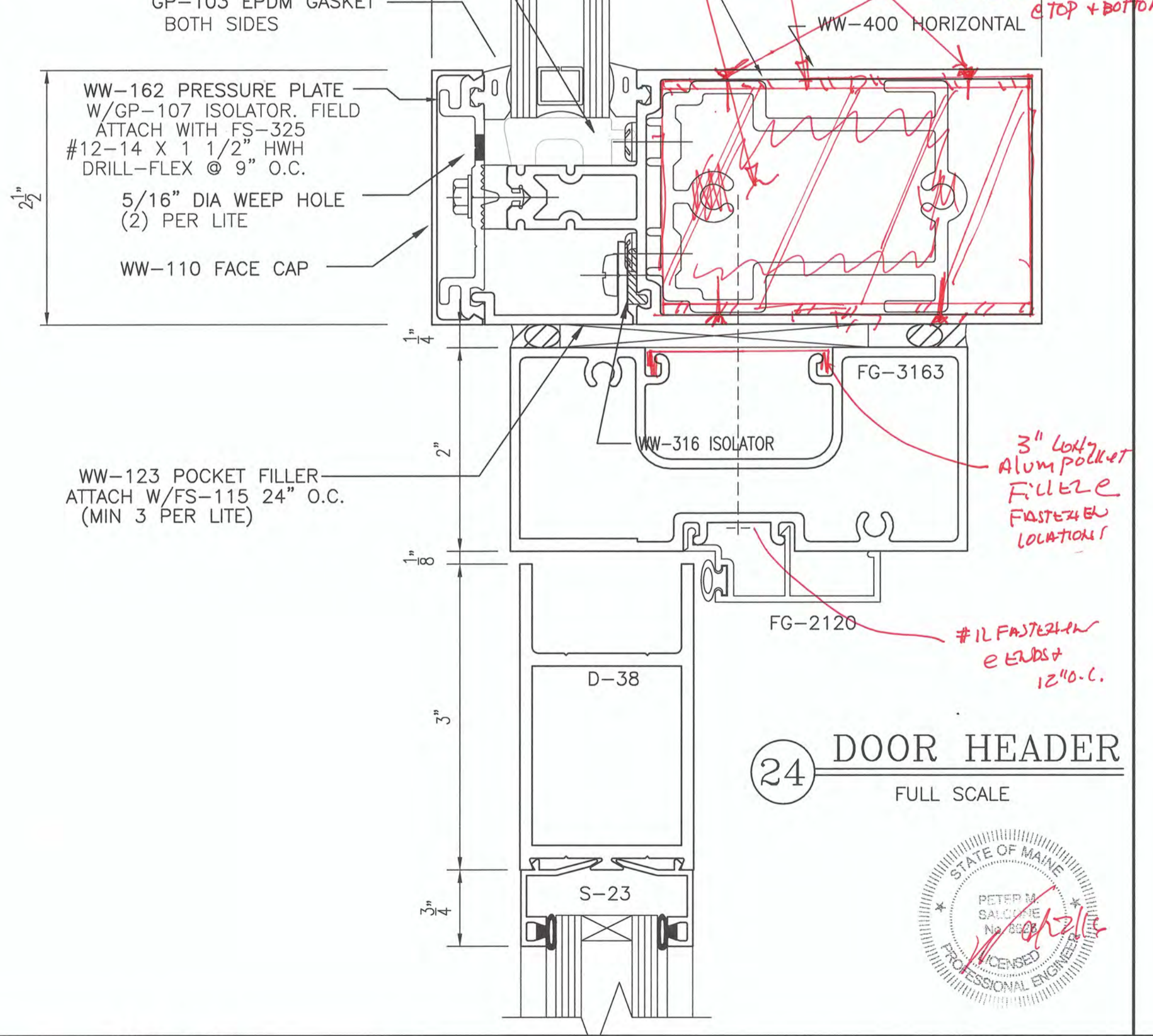
PG Portland Glass.



23 DOOR JAMB
FULL SCALE



25 HEAD DETAIL
FULL SCALE



24 DOOR HEADER
FULL SCALE



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SYMBOLS:

	ELEVATION NUMBER
	DETAIL NUMBER

REVISIONS:

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

JOB NAME: THE PARK DANFORTH

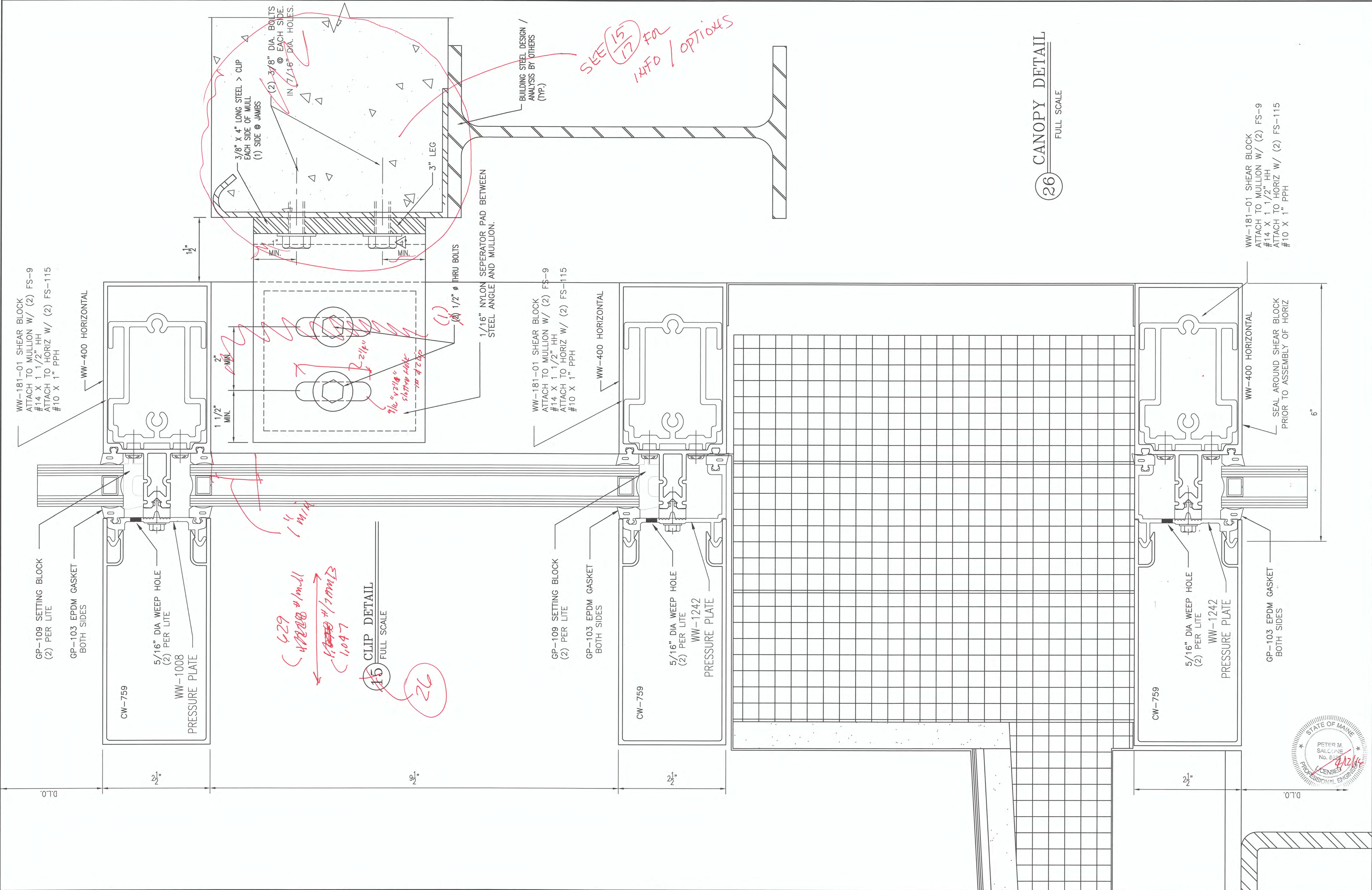
ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS

CONTRACTOR:

DATE: 2/25/16

SCALE: AS NOTED

DRAWN BY: W. PEASE



26 CANOPY DETAIL
FULL SCALE

WW-181-01 SHEAR BLOCK
ATTACH TO MULLION W/ (2) FS-9
#14 X 1 1/2" HH
ATTACH TO HORIZ W/ (2) FS-115
#10 X 1" PPH

WW-400 HORIZONTAL

GP-109 SETTING BLOCK
(2) PER LITE
GP-103 EPDM GASKET
BOTH SIDES

5/16" DIA WEEP HOLE
(2) PER LITE
WW-1008
PRESSURE PLATE

CW-759

WW-181-01 SHEAR BLOCK
ATTACH TO MULLION W/ (2) FS-9
#14 X 1 1/2" HH
ATTACH TO HORIZ W/ (2) FS-115
#10 X 1" PPH

WW-400 HORIZONTAL

GP-109 SETTING BLOCK
(2) PER LITE
GP-103 EPDM GASKET
BOTH SIDES

5/16" DIA WEEP HOLE
(2) PER LITE
WW-1242
PRESSURE PLATE

CW-759

WW-181-01 SHEAR BLOCK
ATTACH TO MULLION W/ (2) FS-9
#14 X 1 1/2" HH
ATTACH TO HORIZ W/ (2) FS-115
#10 X 1" PPH

WW-400 HORIZONTAL

SEAL AROUND SHEAR BLOCK
PRIOR TO ASSEMBLY OF HORIZ

GP-103 EPDM GASKET
BOTH SIDES

5/16" DIA WEEP HOLE
(2) PER LITE
WW-1242
PRESSURE PLATE

CW-759



ABBREVIATIONS:

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SYMBOLS:

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	DETAIL NUMBER SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:

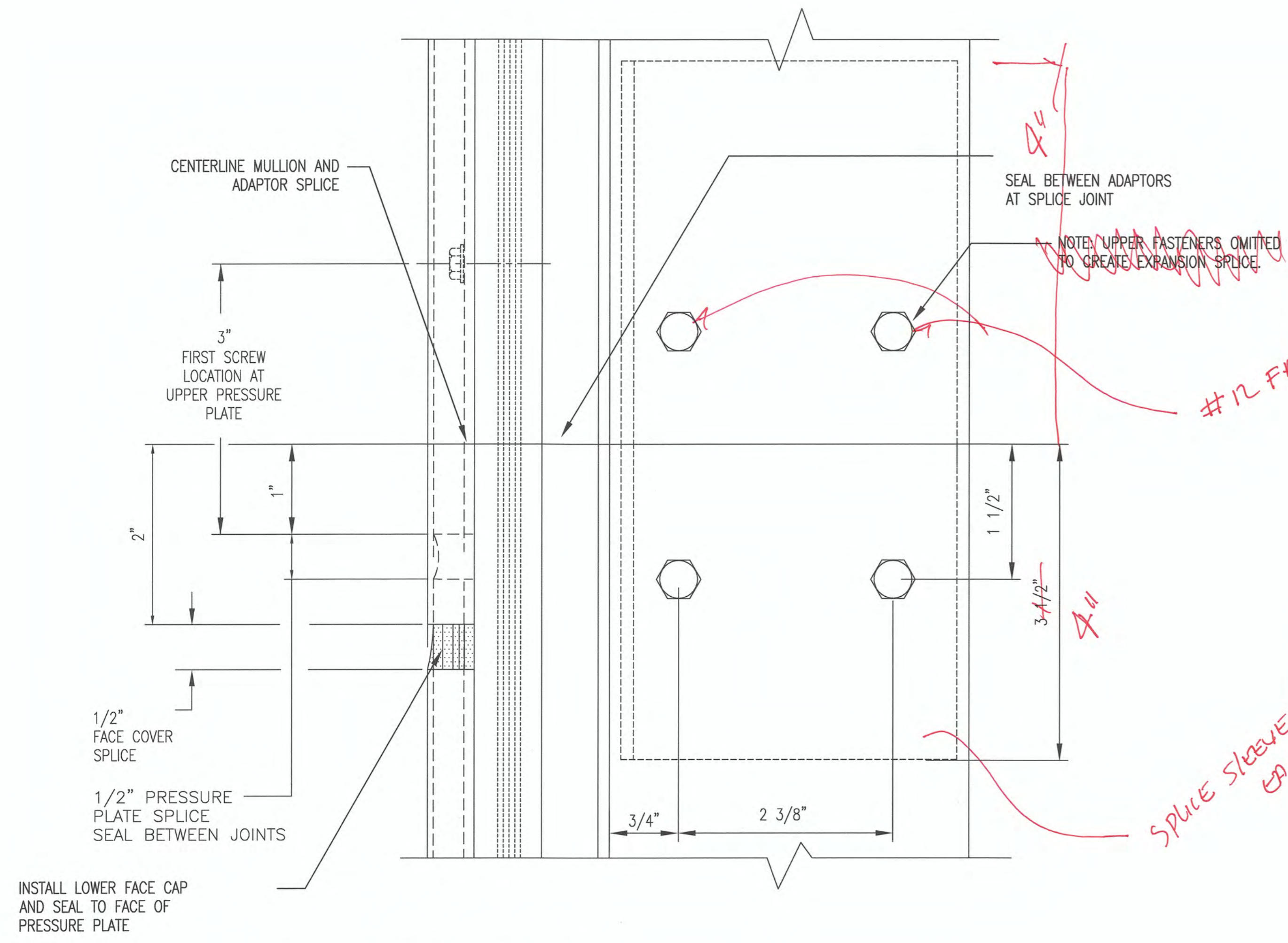
JOB NAME:	THE PARK DANFORTH
ARCHITECT:	LAVALLEE BRENSINGER ARCHITECTS
CONTRACTOR:	

DATE:	2/25/16
SCALE:	AS NOTED
DRAWN BY:	W. PEASE

PG PORTLAND GLASS
832 CONGRESS STREET
PORTLAND, MAINE 04102
PHONE: 207-774-9851
FAX: 207-774-9855

PG Portland Glass.

JOB NAME: THE PARK DANFORTH
LAST REVISED: 2/25/16
SHEET NUMBER
22 OF 33



27 SPLICE DETAIL
FULL SCALE

PG PORTLAND GLASS
832 CONGRESS STREET
PORTLAND, MAINE 04102
PHONE: 207-774-9851
FAX: 207-774-9855

PG Portland Glass.

LAST REVISED: 2/25/16
JOB NAME: THE PARK DANFORTH



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SYMBOLS:

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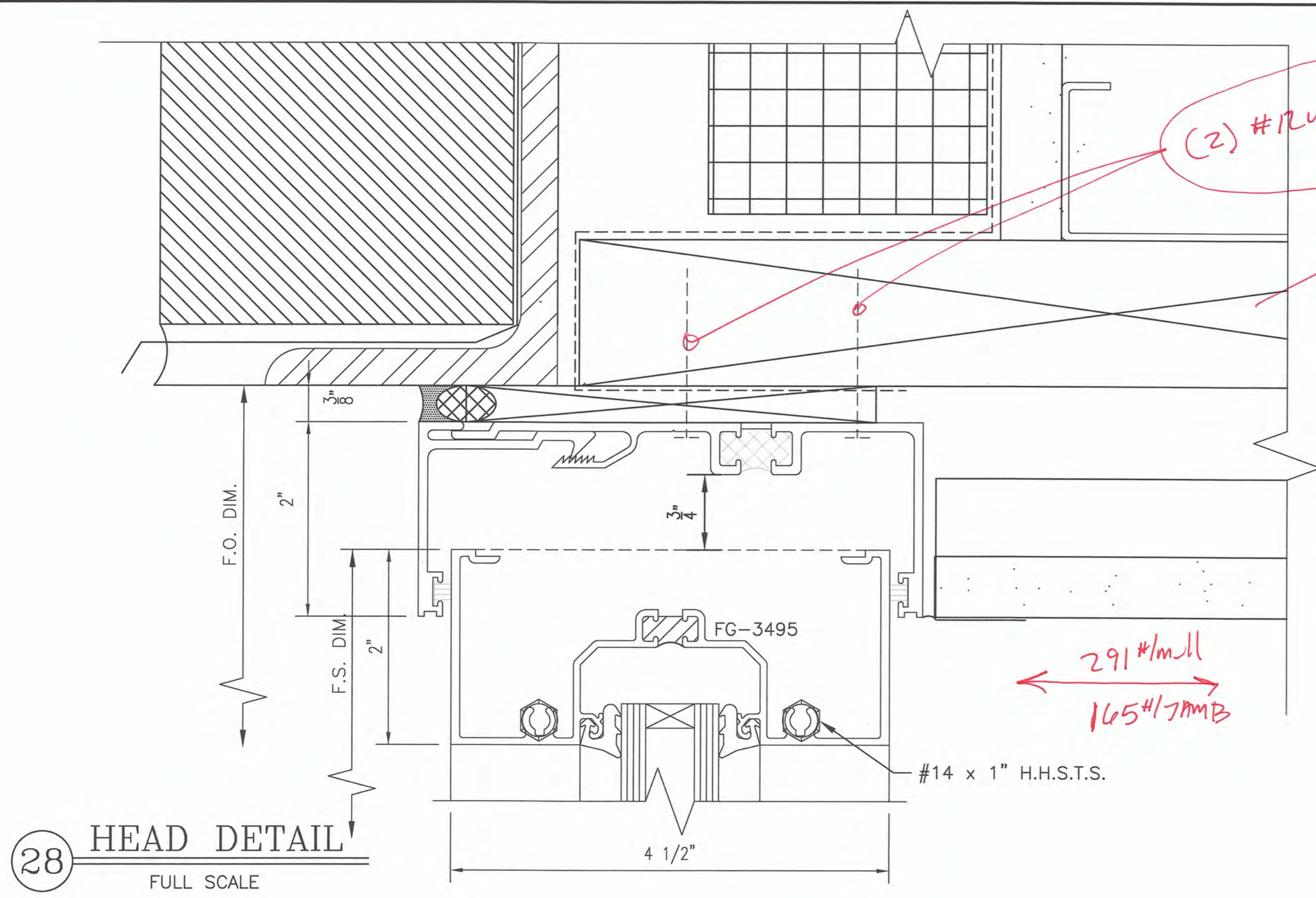
REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:

JOB NAME: THE PARK DANFORTH	DATE: 2/25/16
ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS	SCALE: AS NOTED
CONTRACTOR:	DRAWN BY: W. PEASE

SHEET NUMBER
23 OF **33**

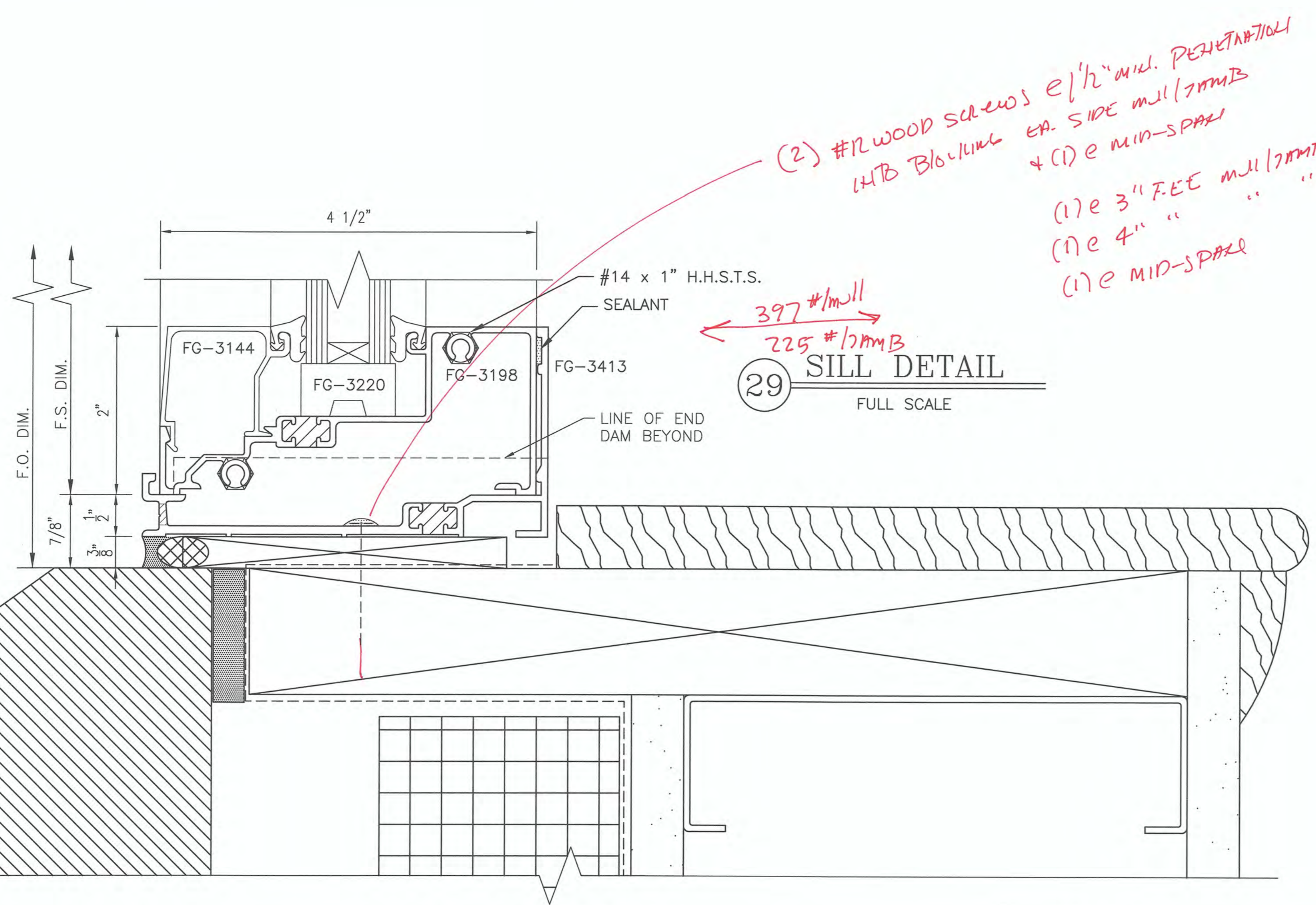
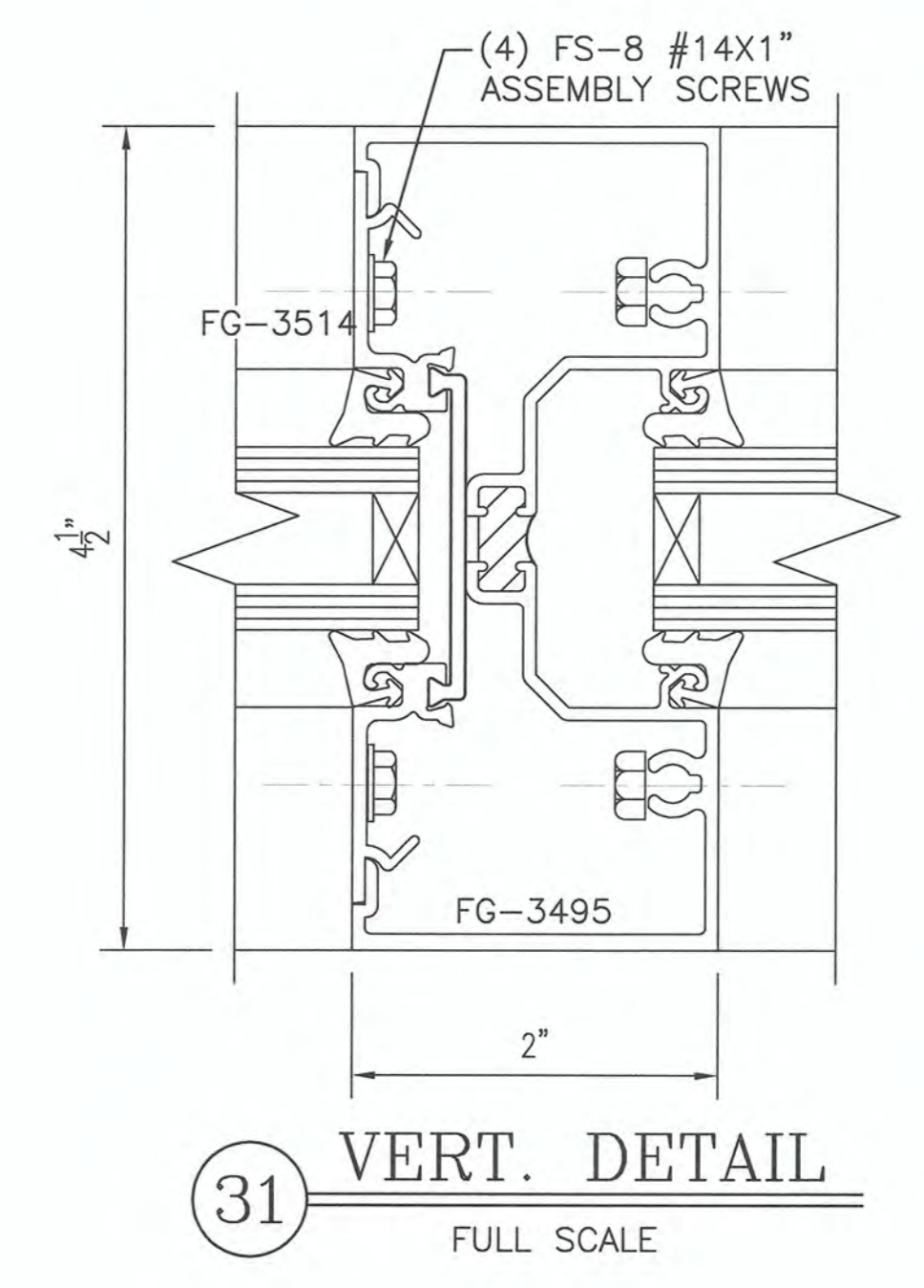
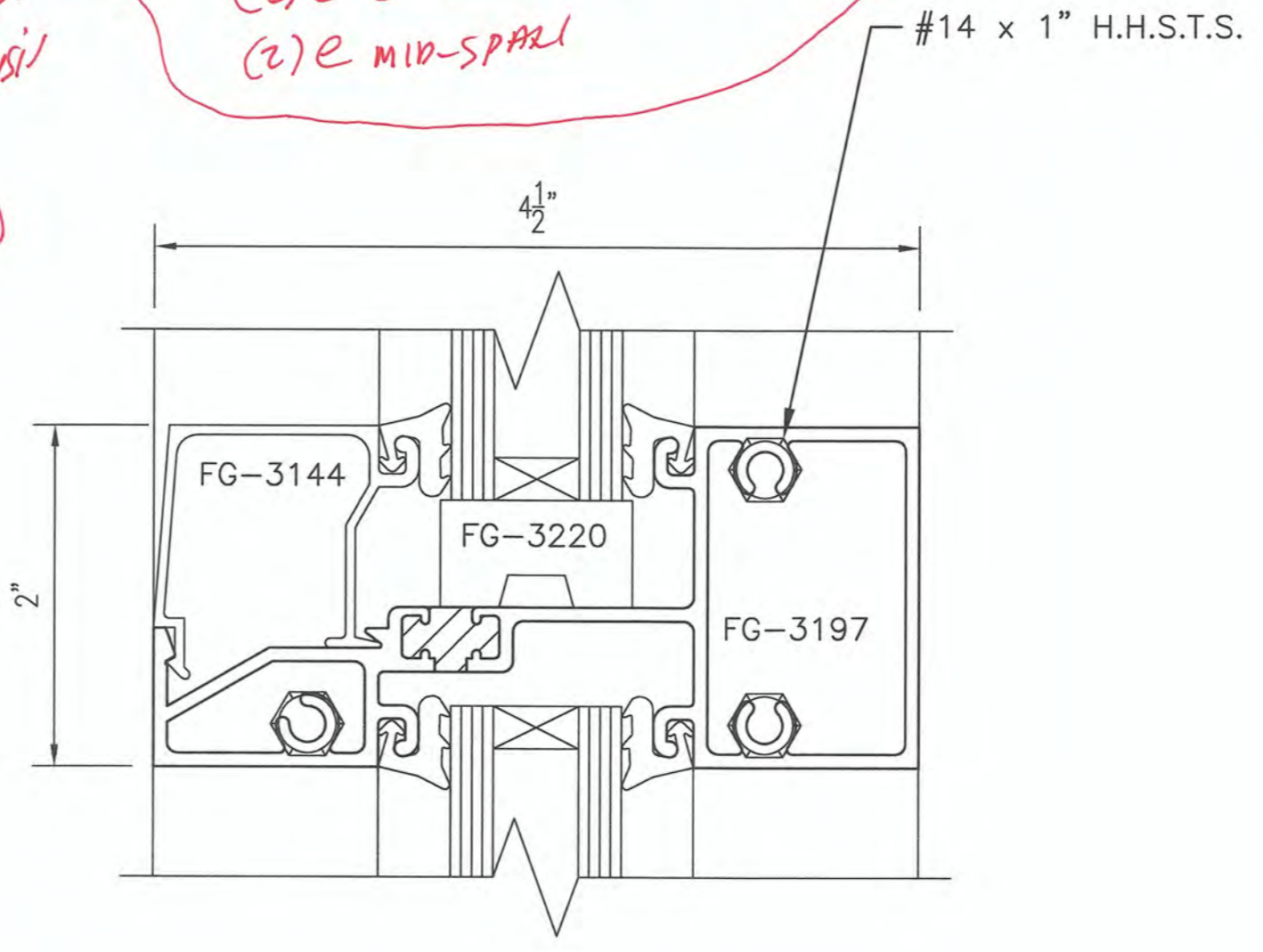
PG Portland Glass.



(2) #12 WOOD SCREWS @ 1/2" MIN. PENETRATION INTO BLOCKING
 EA. SIDE M.I./7MMB + MID-SPACE

WOOD BLOCKING DESIGN PURPOSE BY OTHERS (TYPICAL)

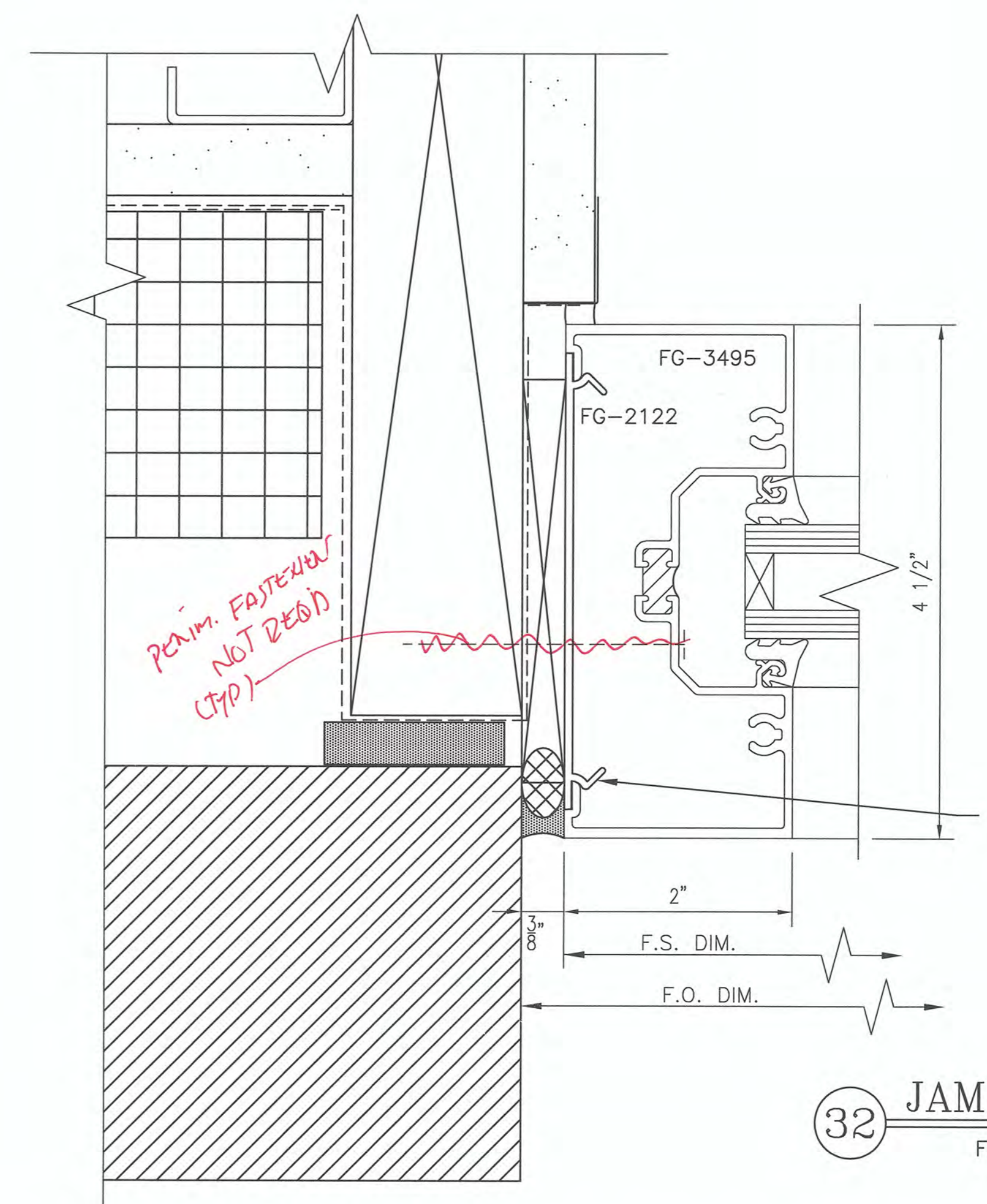
(2) @ 3" F.E.E. M.I./7MMB
 (2) @ MID-SPACE



(2) #12 WOOD SCREWS @ 1/2" MIN. PENETRATION INTO BLOCKING EA. SIDE M.I./7MMB + (1) @ MID-SPACE

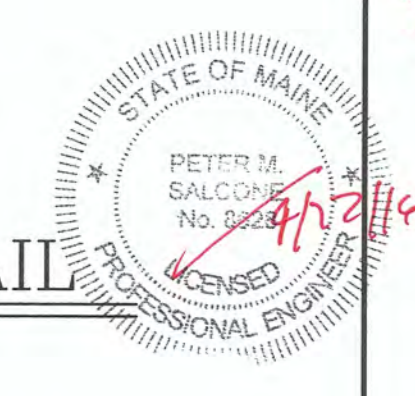
(1) @ 3" F.E.E. M.I./7MMB
 (1) @ 4" " " "
 (1) @ MID-SPACE

397 #10 M.I.
 225 #17MMB



FG-2122 4" LONG AT ANCHORS.
 FG-2188 VINYL POCKET FILLER & CAULK STOP BETWEEN ANCHORS.

ENDS + MID-SPACE
 ENDS + MID-SPACE



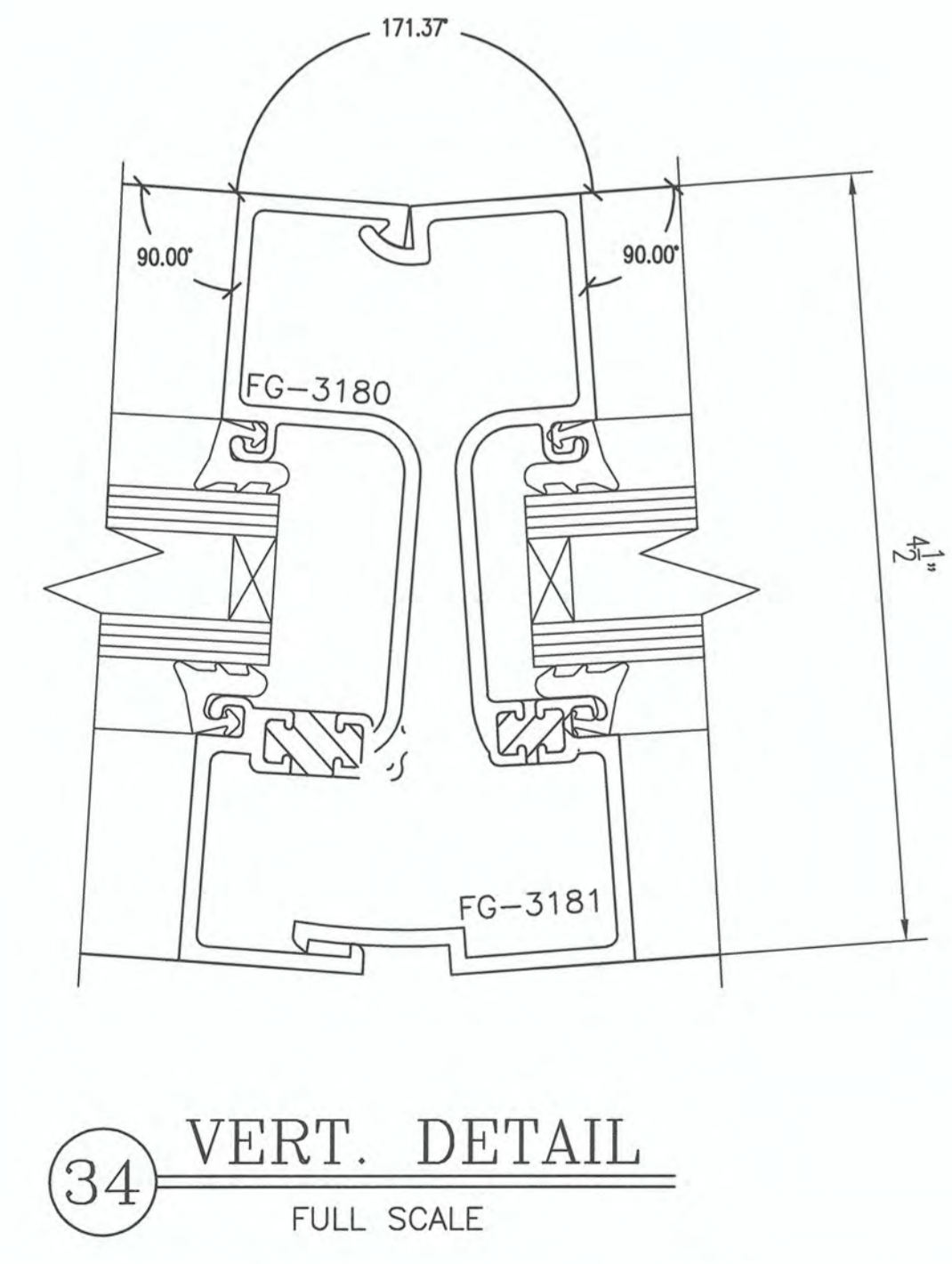
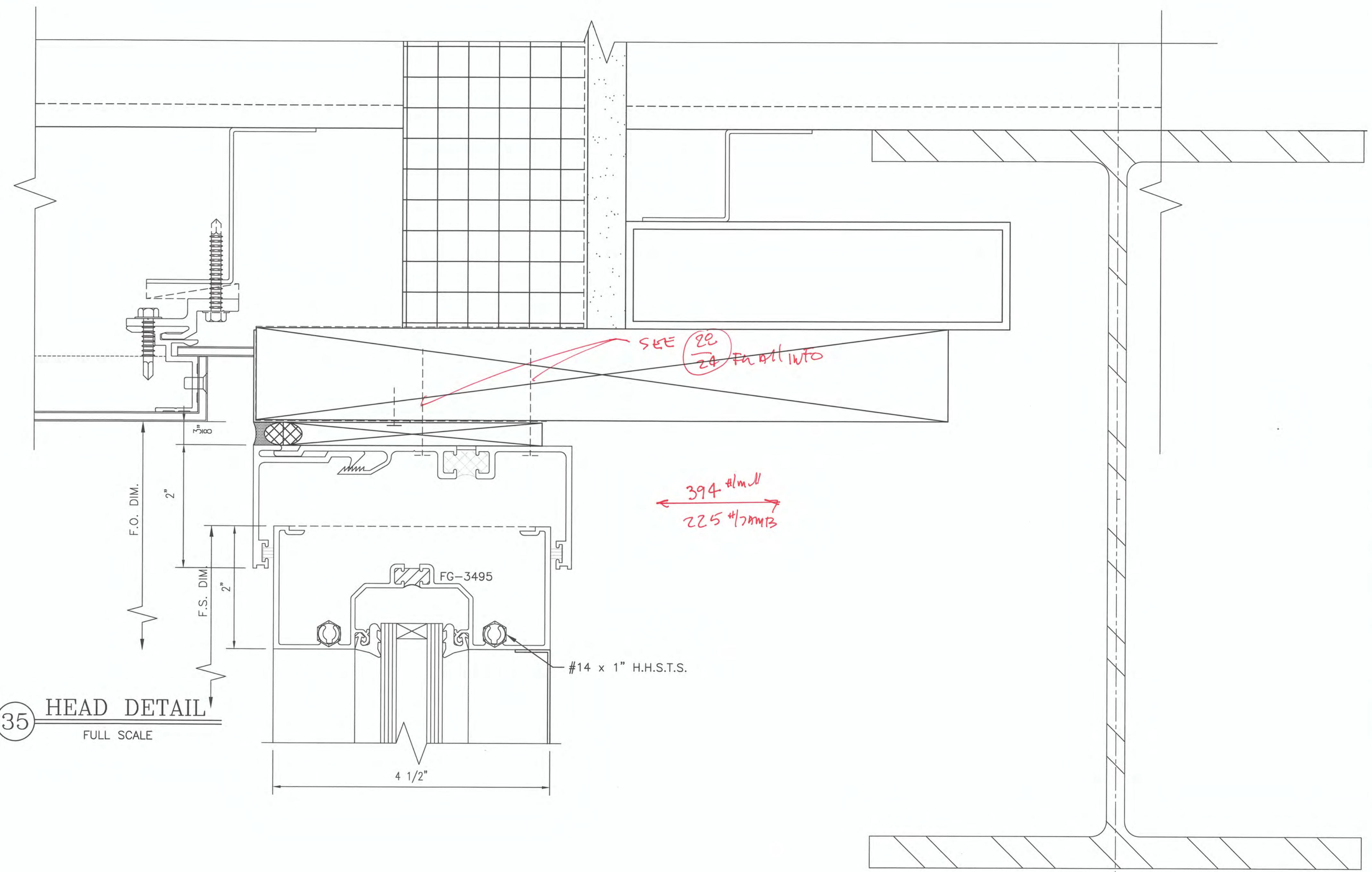
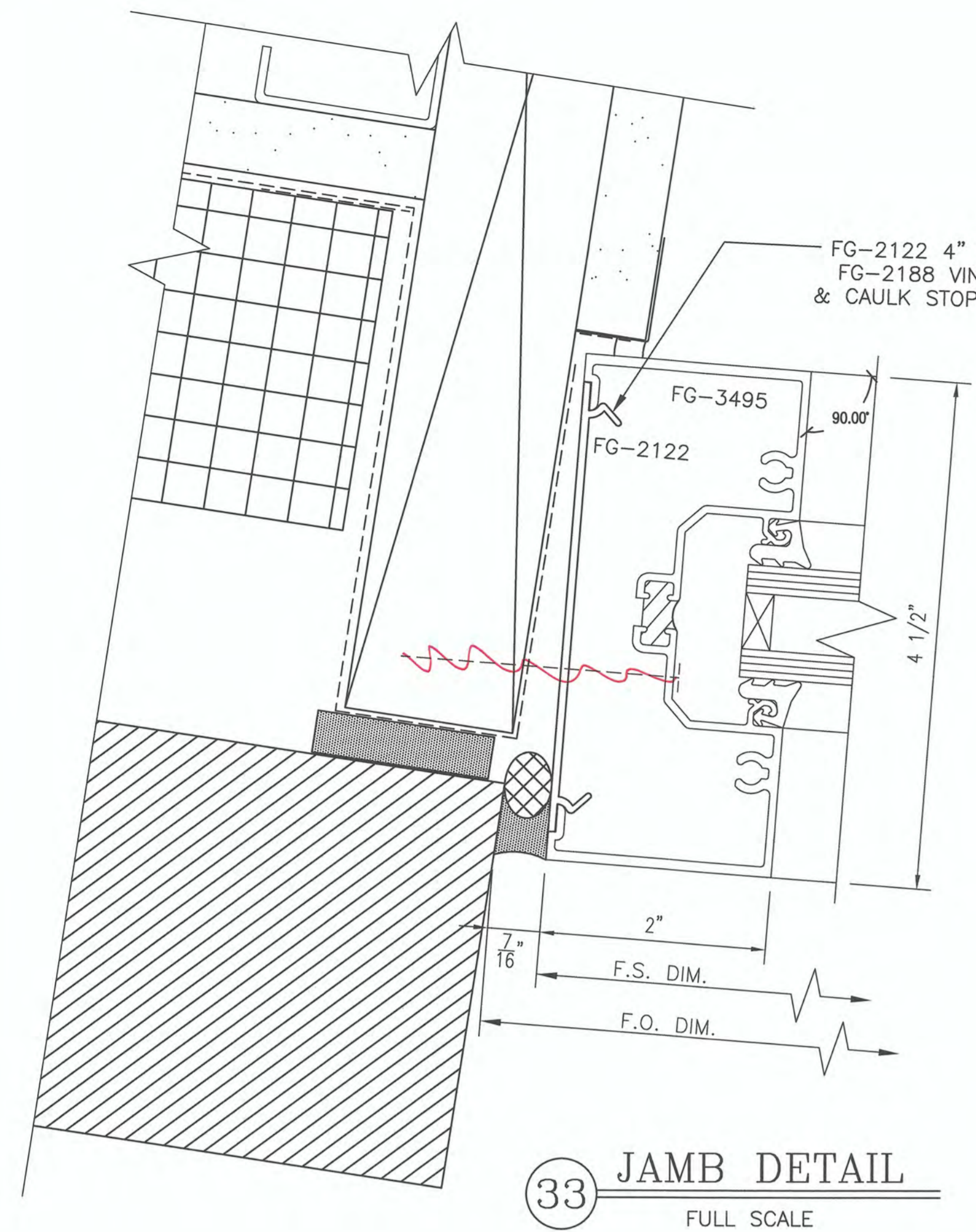
ABBREVIATIONS:	
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DIM. - DIMENSION	T.O.S. - TOP OF STEEL
CL - CENTER LINE	NTS - NOT TO SCALE

SYMBOLS:	
	ELEVATION NUMBER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER

REVISIONS:			
NO.	DATE	DESCRIPTION	

JOB NAME:	THE PARK DANFORTH
ARCHITECT:	LAVALLEE BRENSINGER ARCHITECTS
CONTRACTOR:	

DATE:	2/25/16
SCALE:	AS NOTED
DRAWN BY:	W. PEASE



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SYMBOLS:

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	DETAIL NUMBER SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:

JOB NAME: THE PARK DANFORTH

ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS

CONTRACTOR:

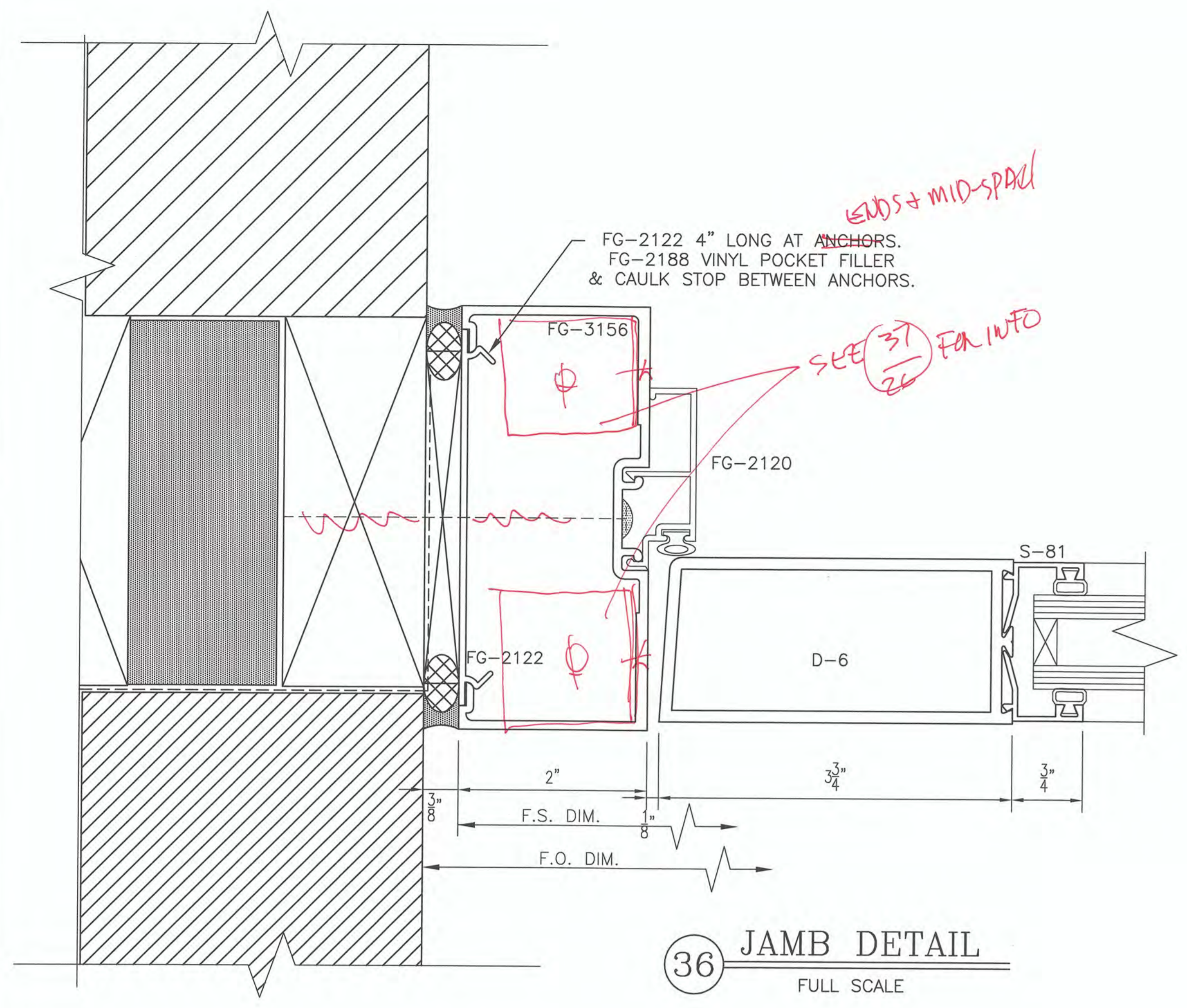
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SCALE: AS NOTED

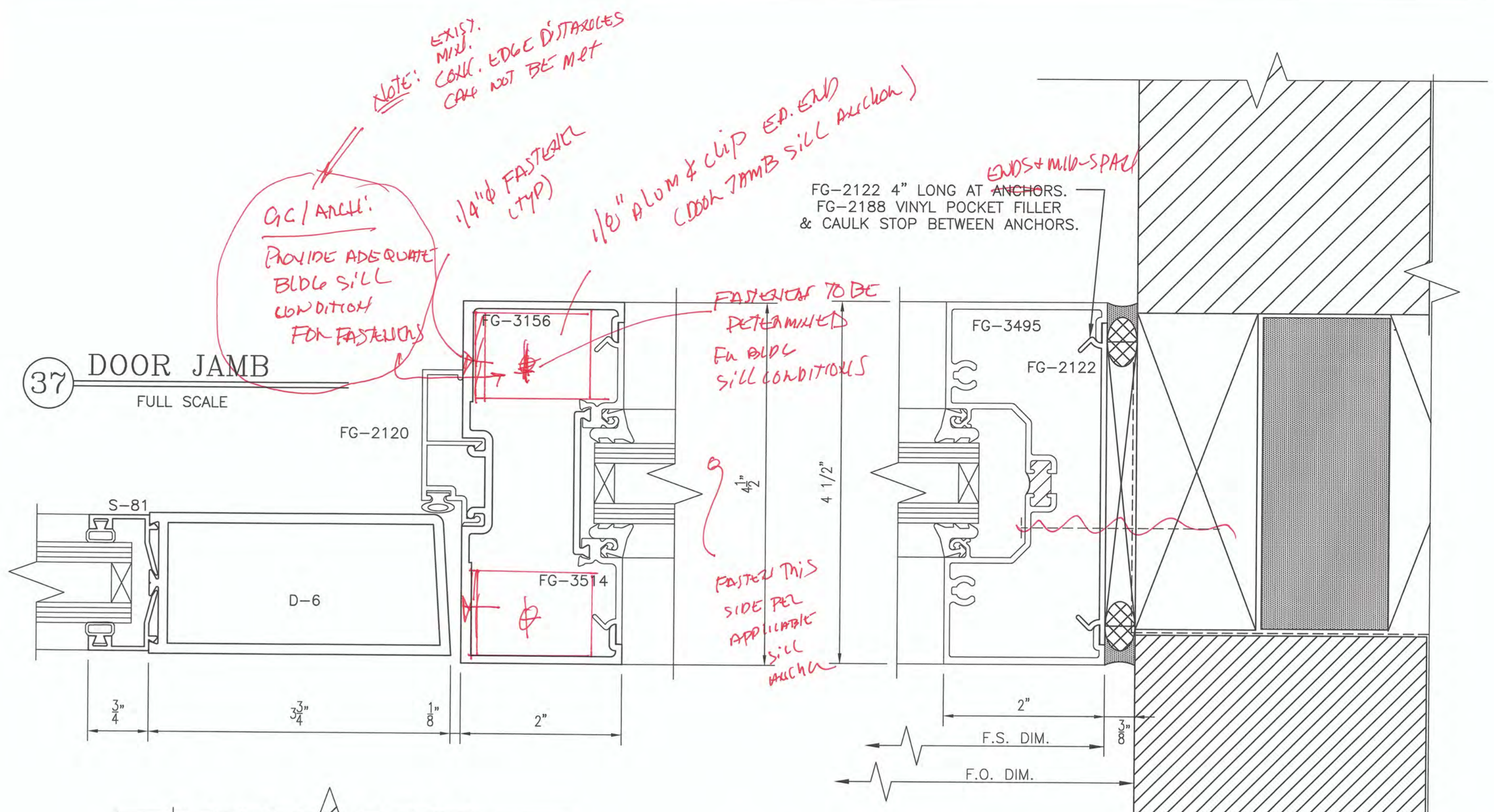
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SHEET NUMBER: 25 OF 33

PG Portland Glass.

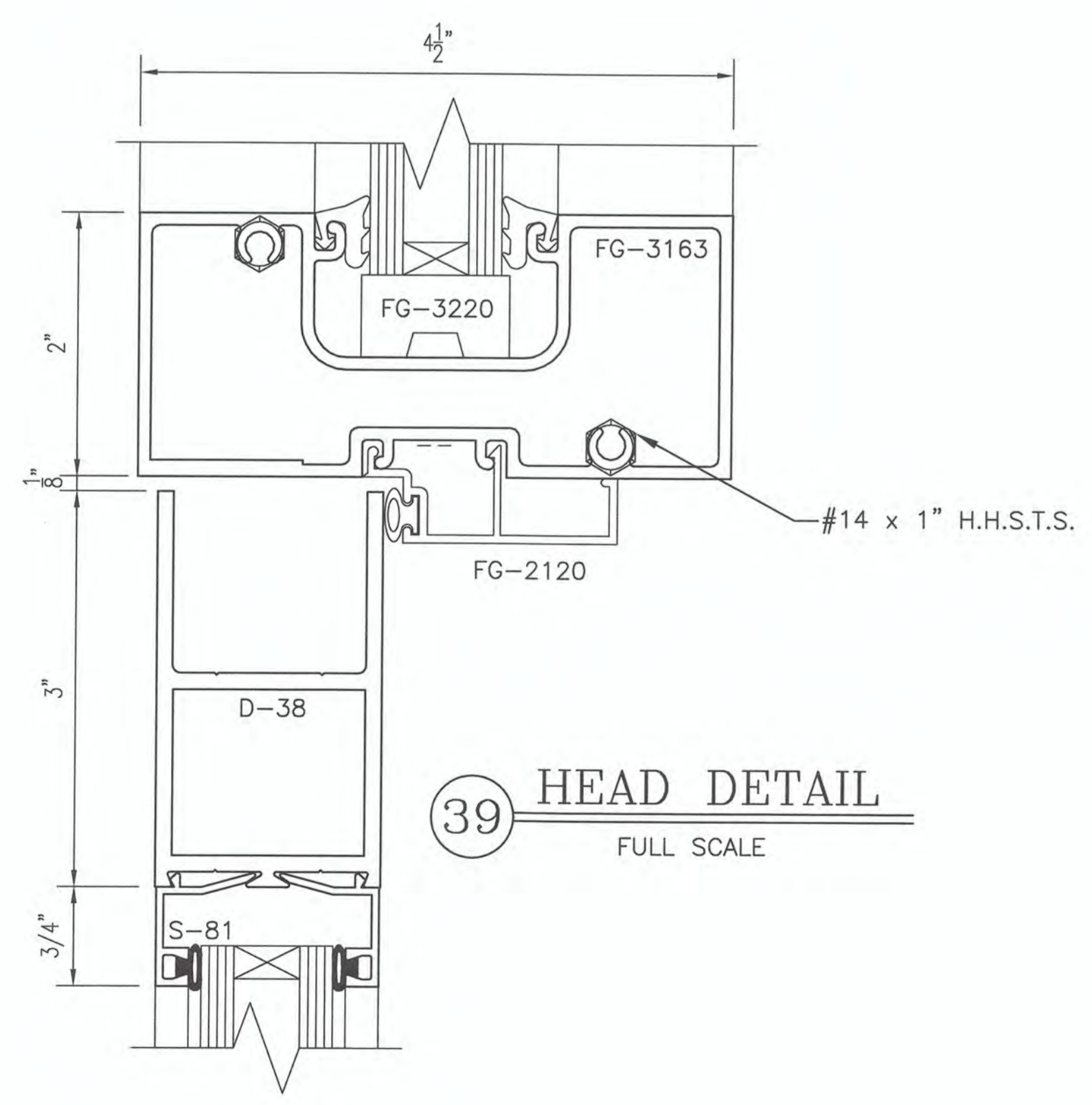


36 JAMB DETAIL
FULL SCALE

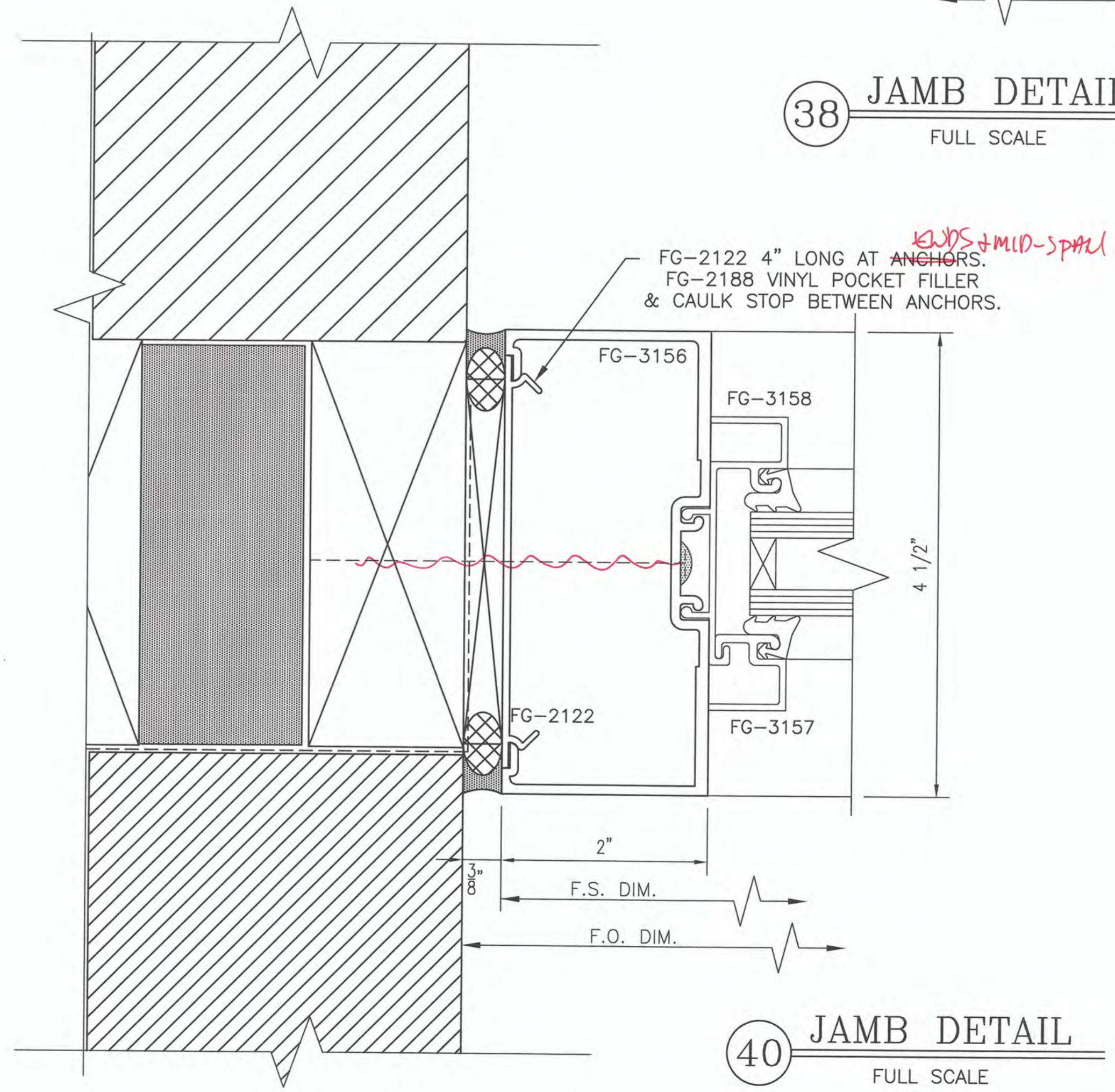


37 DOOR JAMB
FULL SCALE

38 JAMB DETAIL
FULL SCALE



39 HEAD DETAIL
FULL SCALE



40 JAMB DETAIL
FULL SCALE



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REVISIONS:

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

JOB NAME: THE PARK DANFORTH

ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS

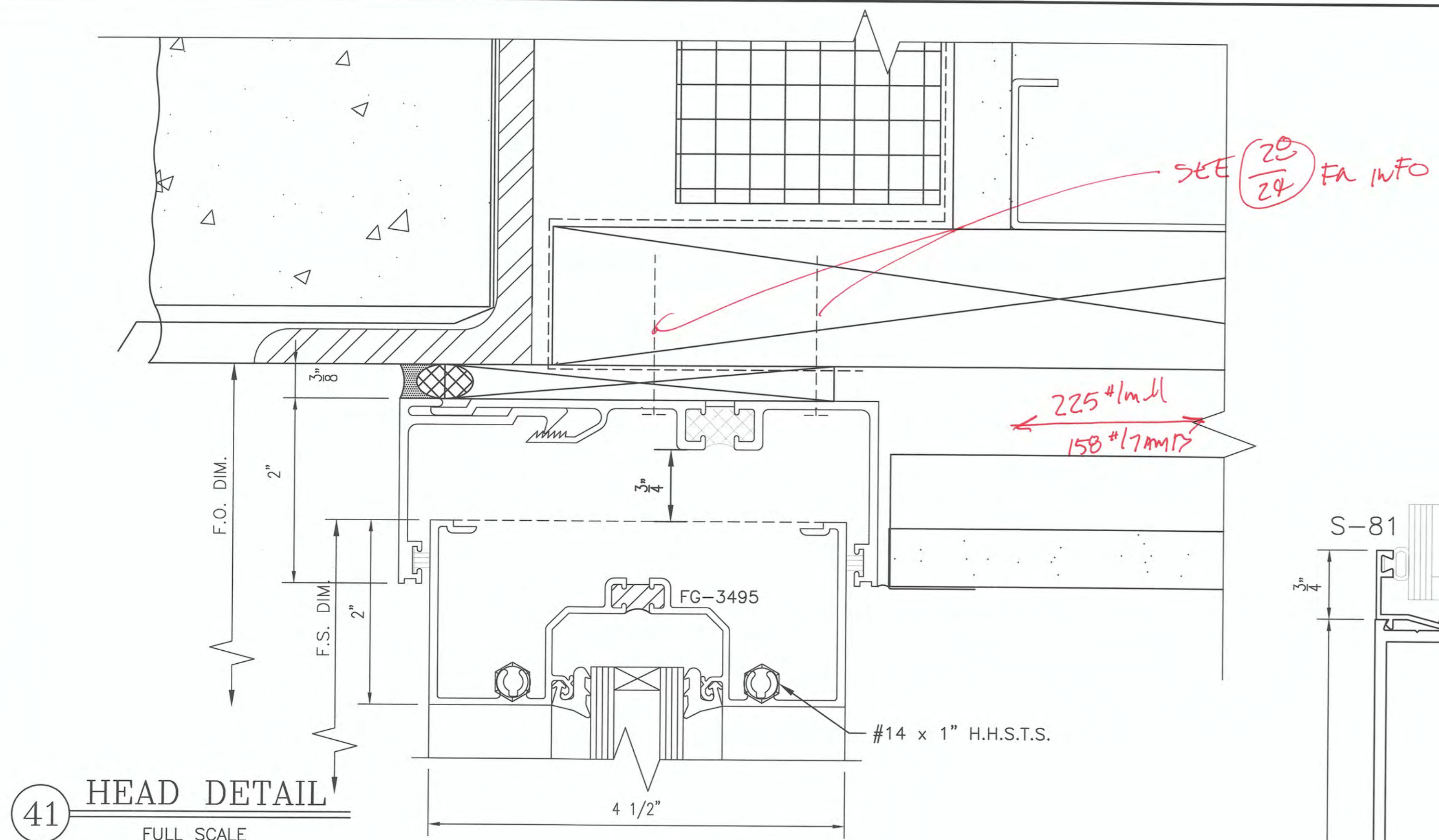
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DATE: 2/25/16

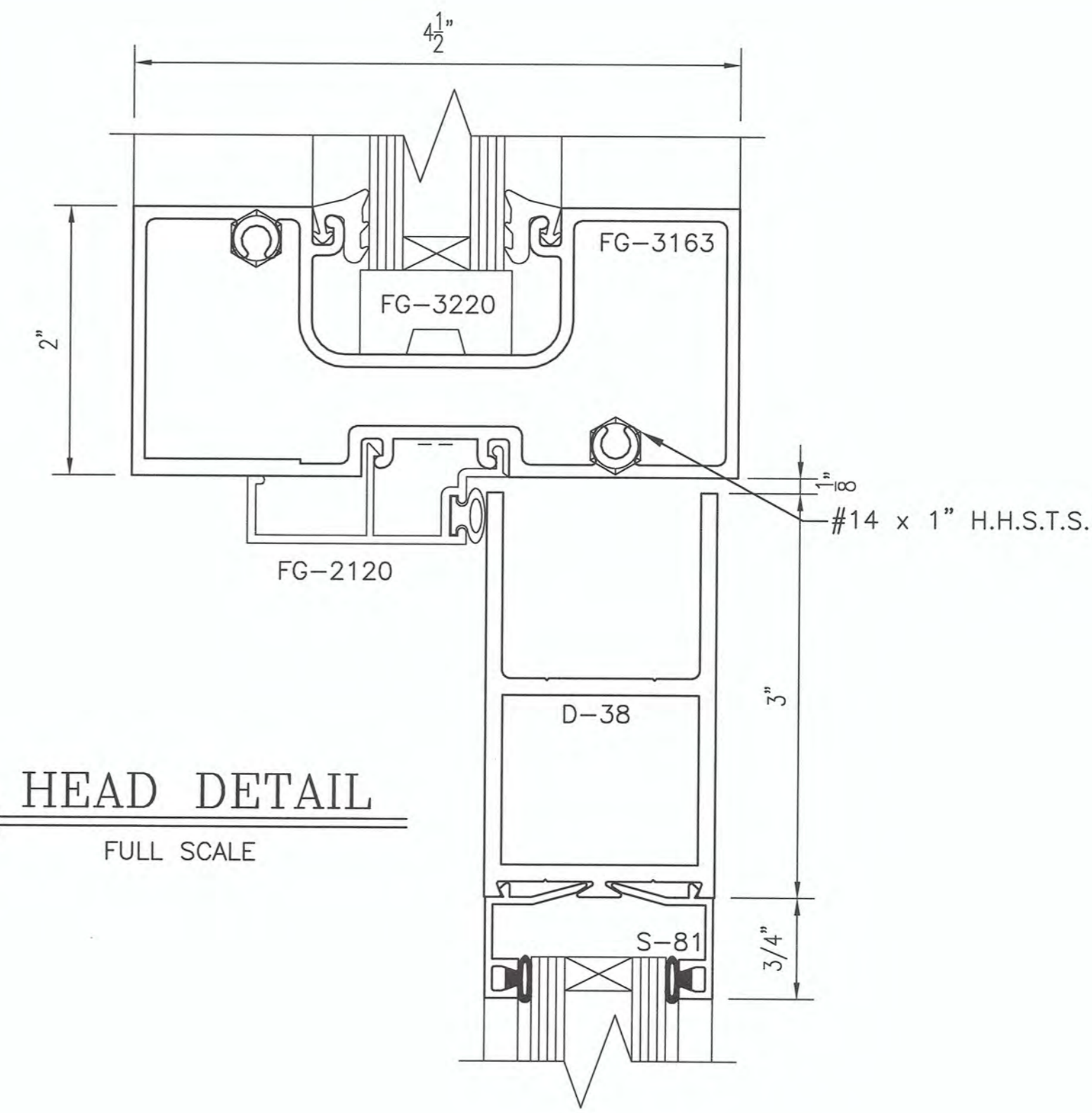
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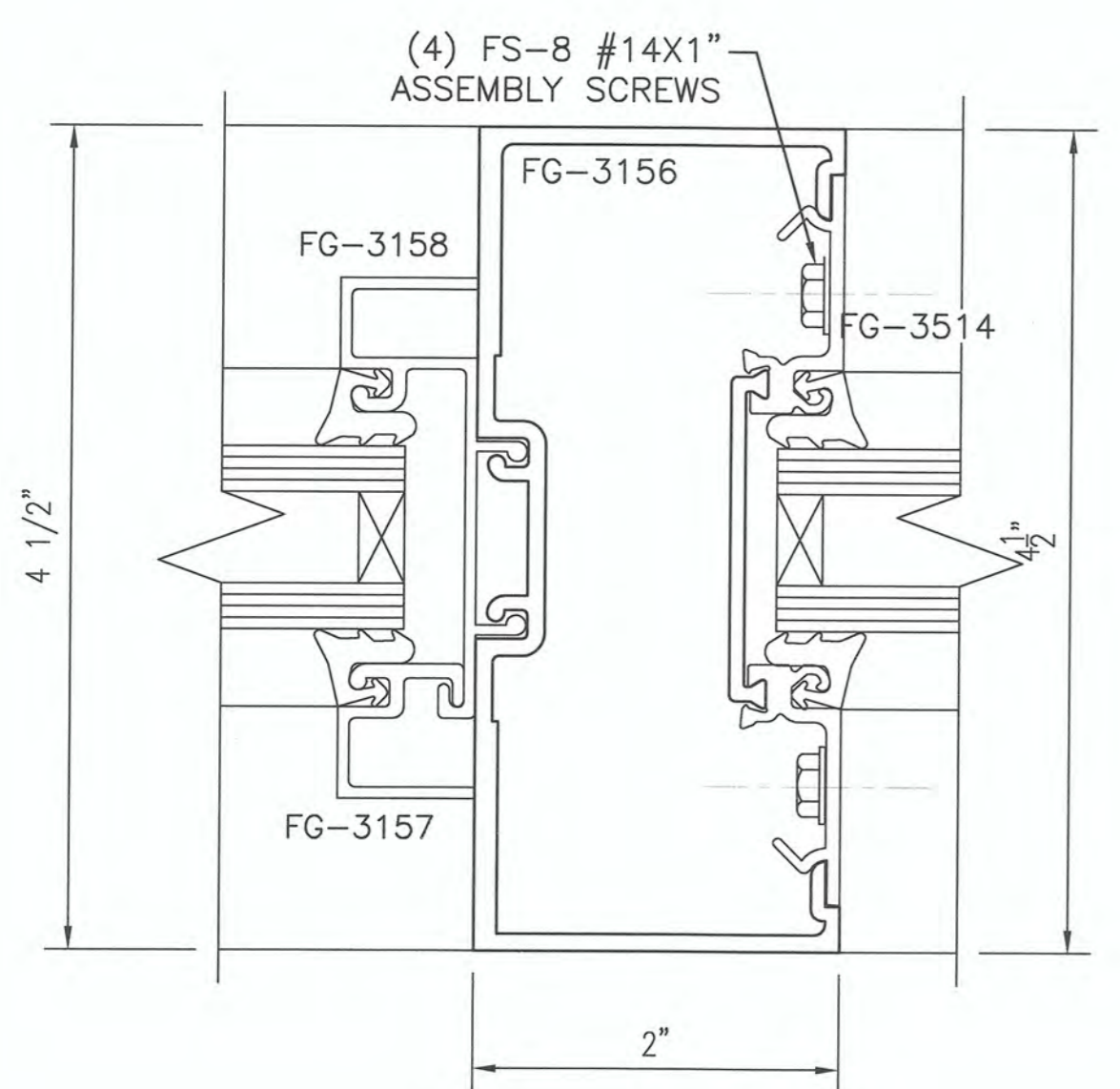
PG Portland Glass.



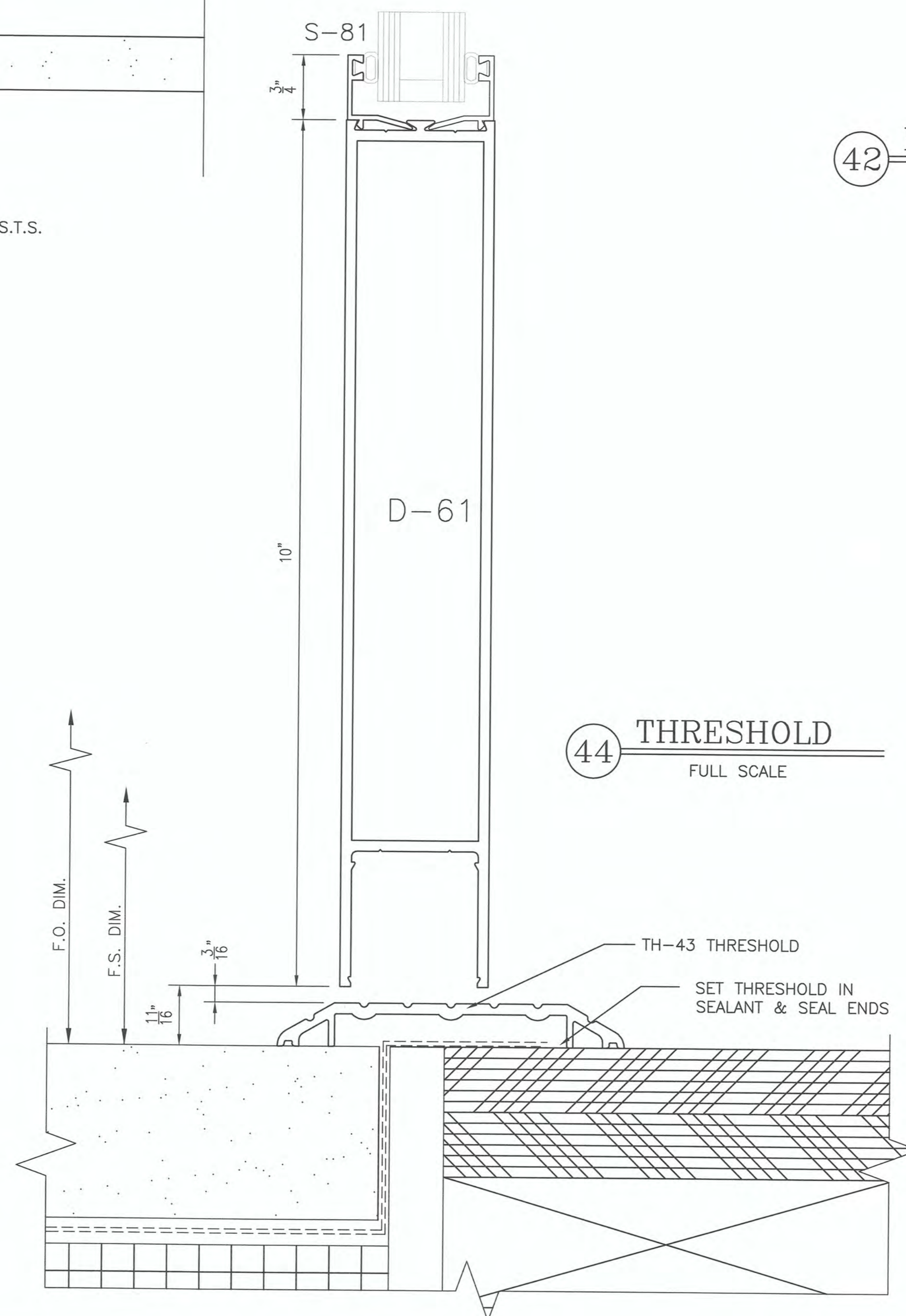
41 HEAD DETAIL
FULL SCALE



42 HEAD DETAIL
FULL SCALE



43 VERT. DETAIL
FULL SCALE



44 THRESHOLD
FULL SCALE



ABBREVIATIONS:

- M.O. - MASONRY OPENING
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- S.O. - STEEL OPENING
- A.F.F. - ABOVE FINISHED FLOOR
- DIM. - DIMENSION
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- W.S. - WINDOW SIZE
- REQ'D - REQUIRED
- CLR. - CLEAR
- B.O.S. - BOTTOM OF STEEL
- T.O.S. - TOP OF STEEL
- NTS - NOT TO SCALE

SYMBOLS:

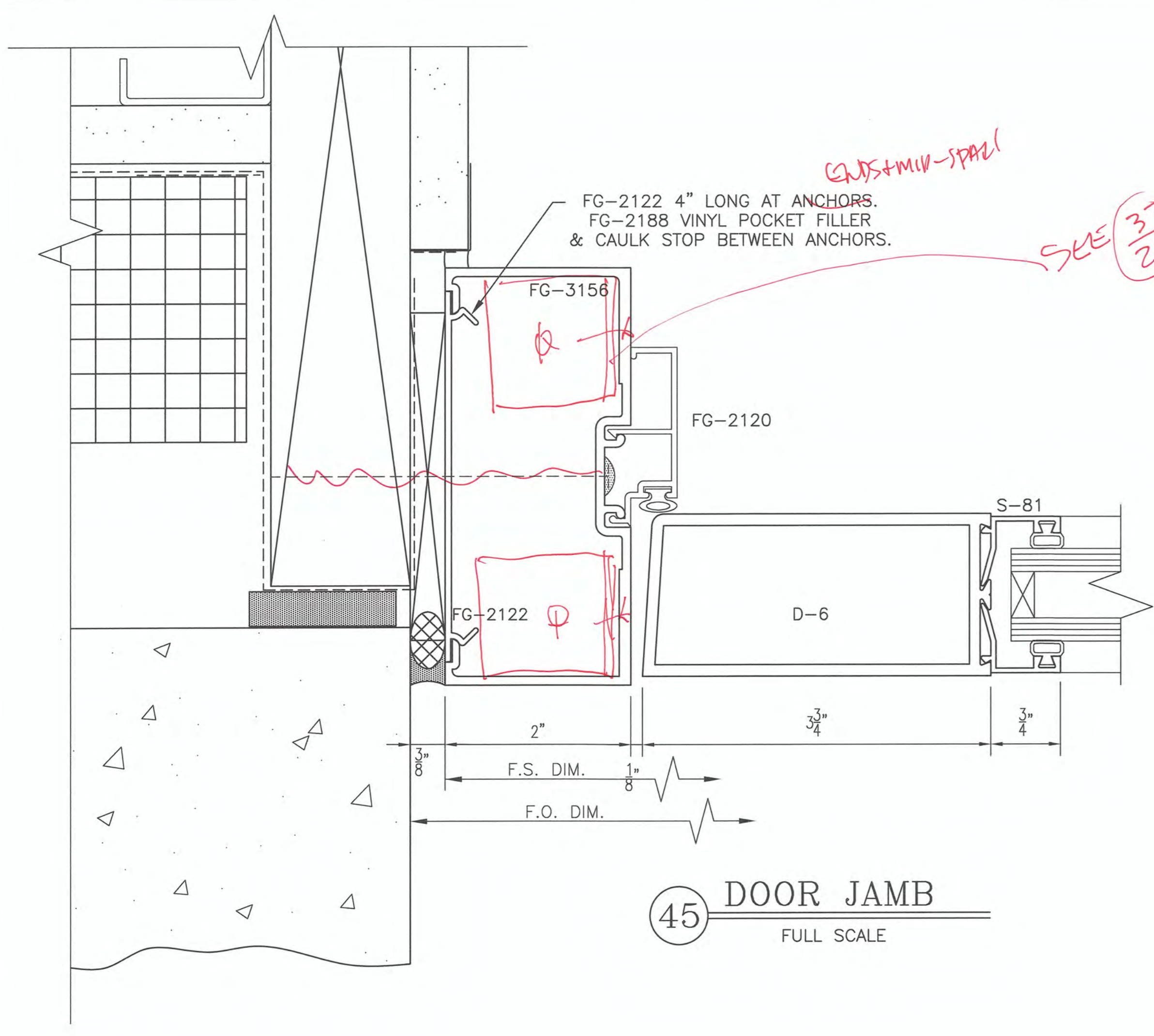
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- DETAIL NUMBER SHEET NUMBER

REVISIONS:

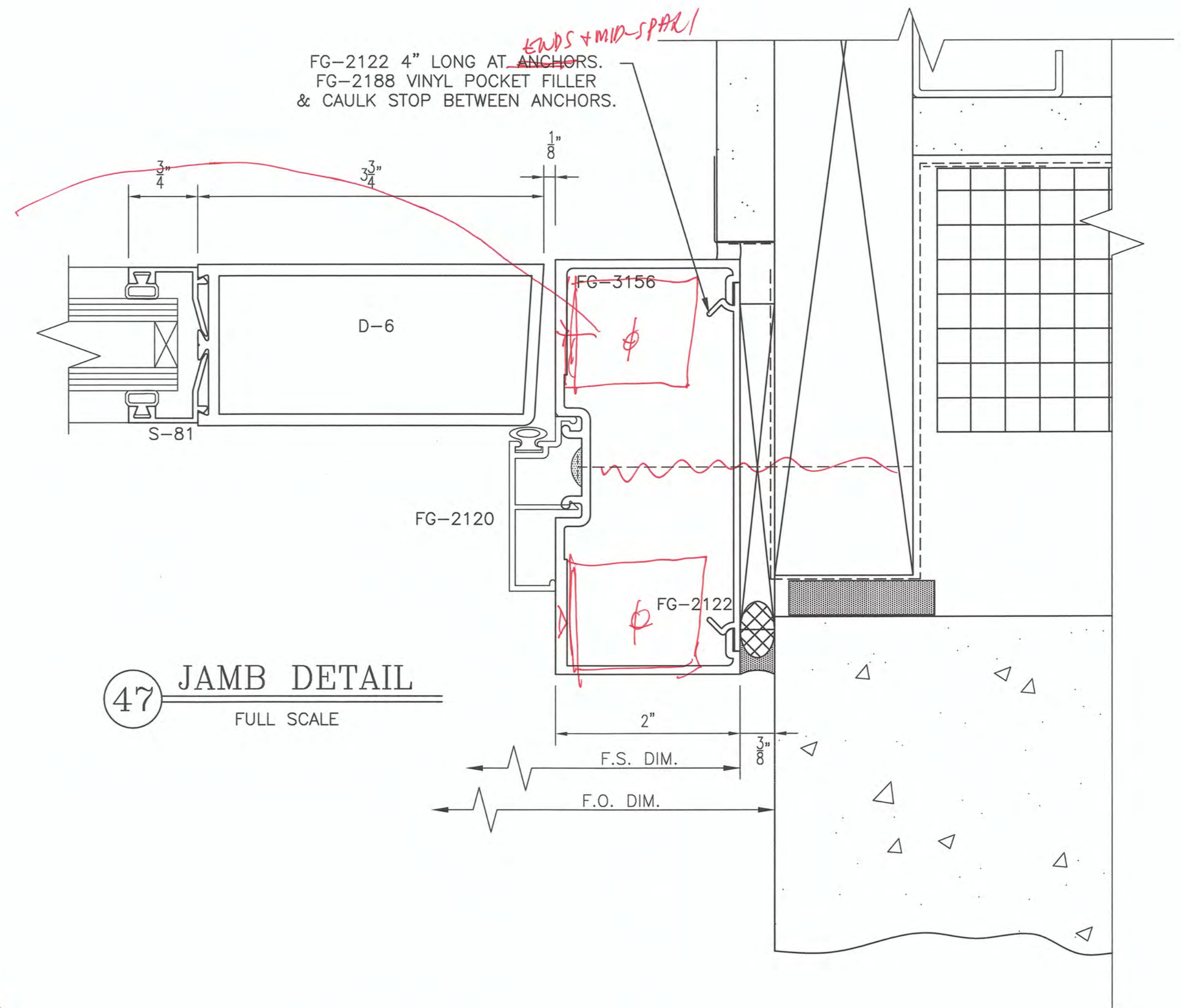
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JOB NAME:	THE PARK DANFORTH
ARCHITECT:	LAVALLEE BRENSINGER ARCHITECTS
CONTRACTOR:	

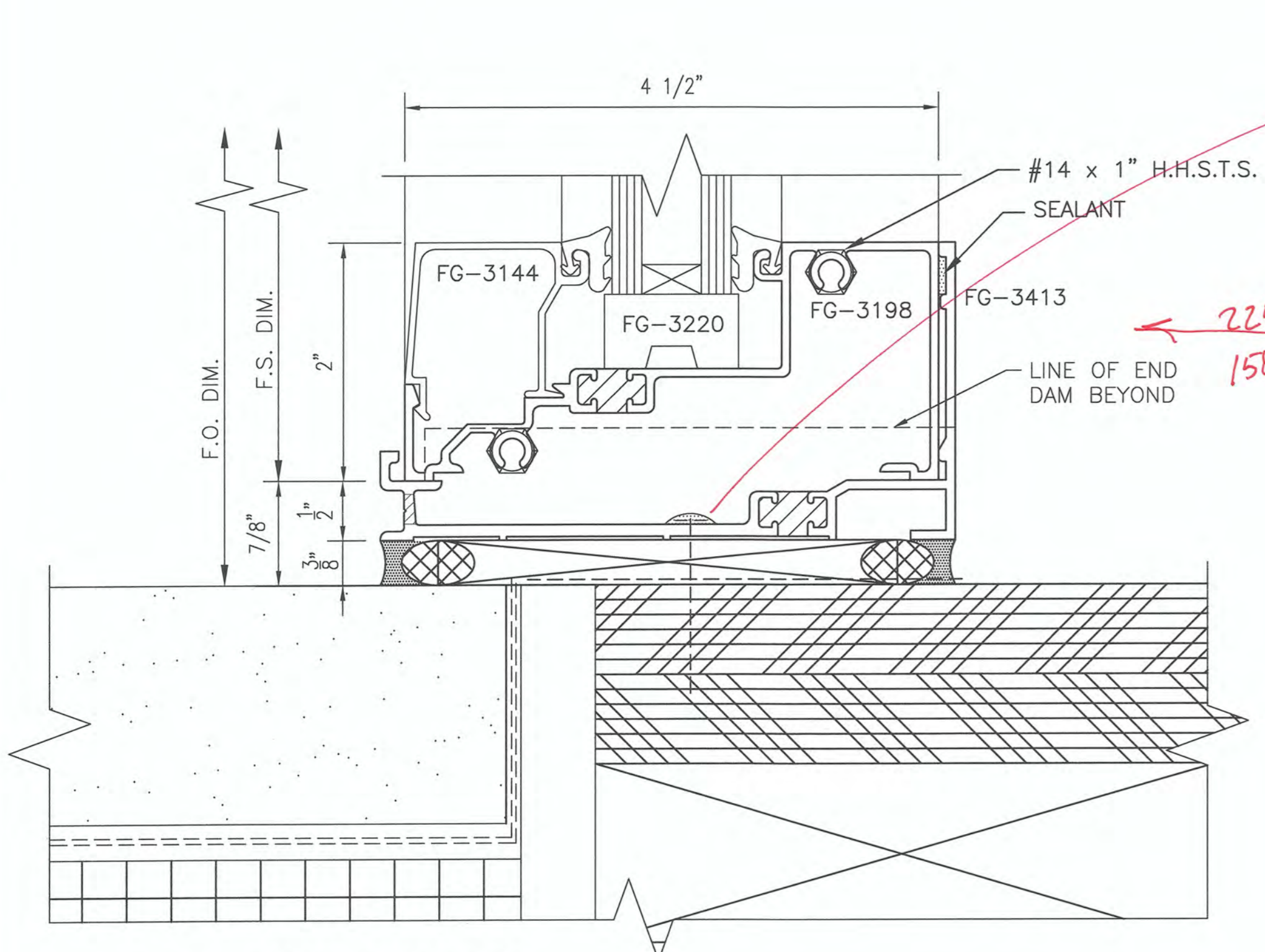
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SCALE:	AS NOTED
DRAWN BY:	W. PEASE



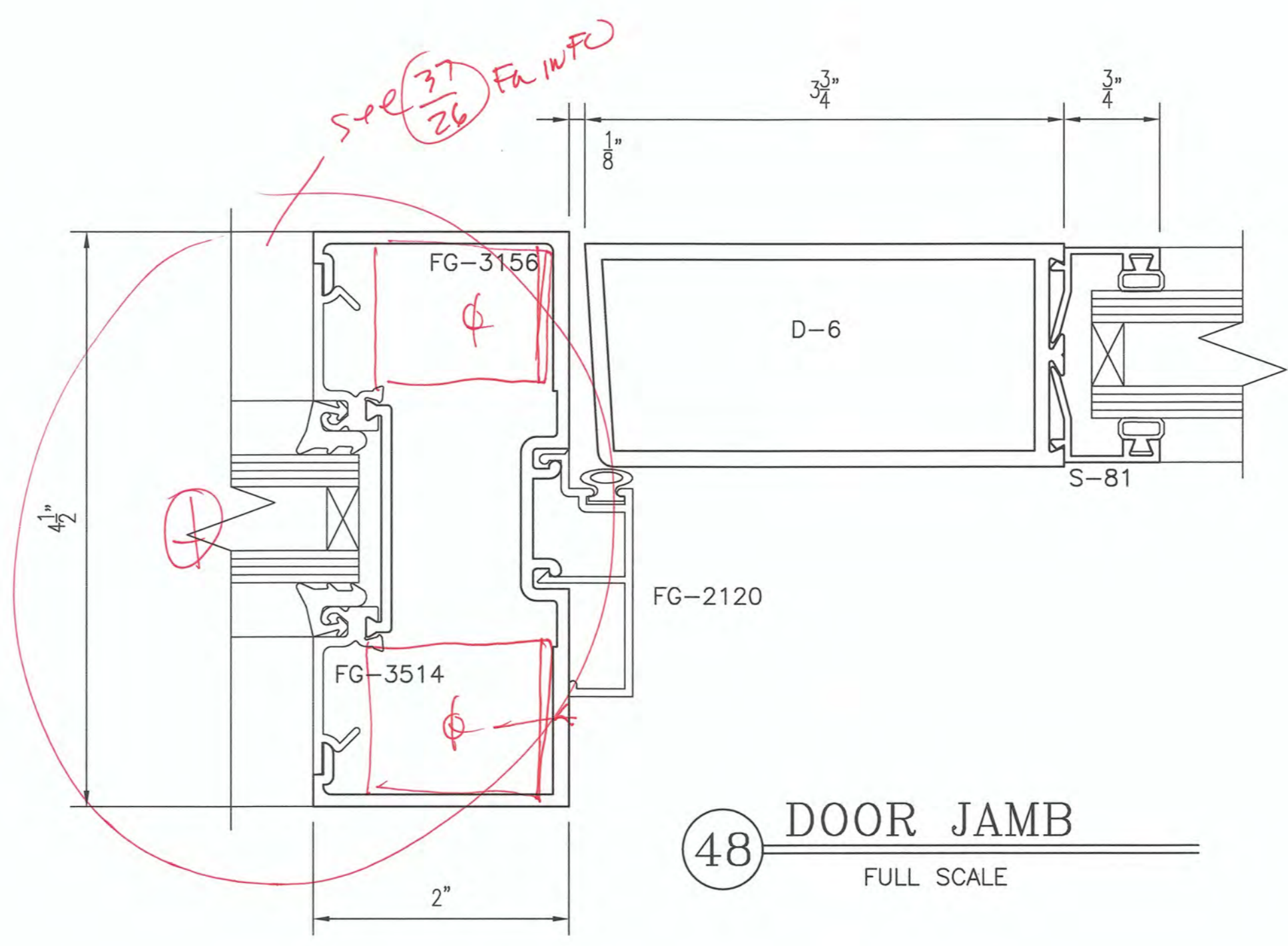
45 DOOR JAMB
 FULL SCALE



47 JAMB DETAIL
 FULL SCALE



46 SILL DETAIL
 FULL SCALE



48 DOOR JAMB
 FULL SCALE



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	SHEET NUMBER
	DETAIL NUMBER
	SHEET NUMBER

REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:

JOB NAME: THE PARK DANFORTH

ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS

CONTRACTOR:

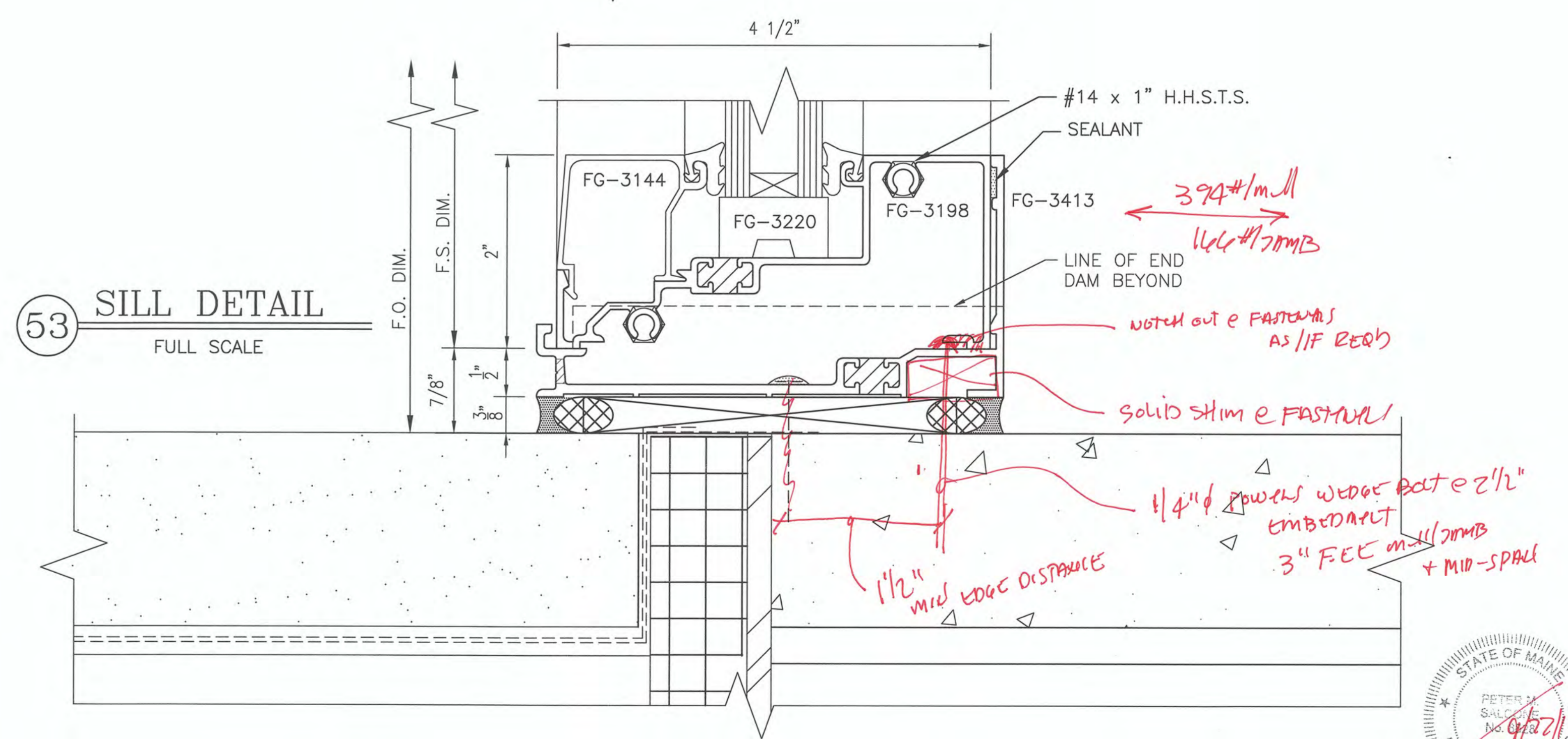
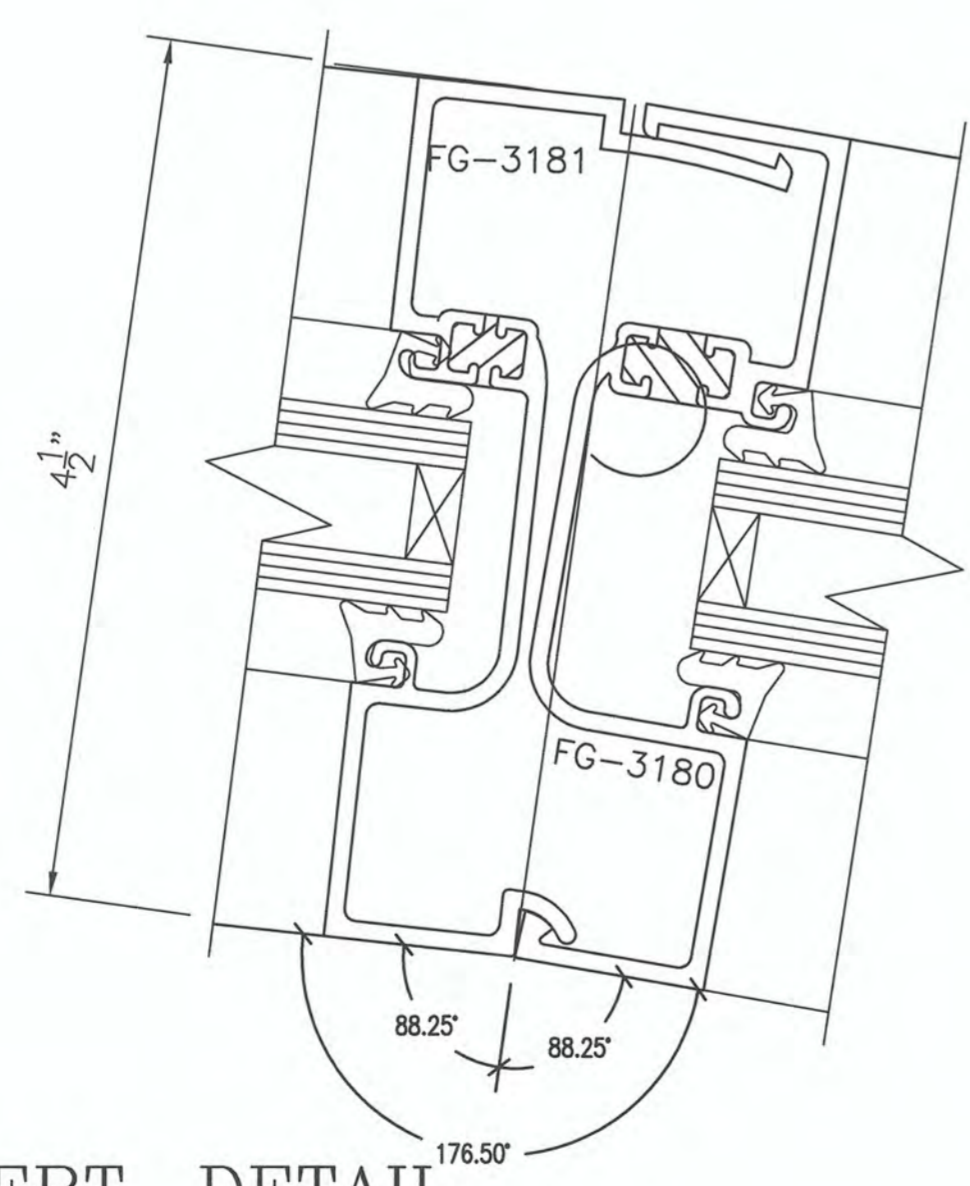
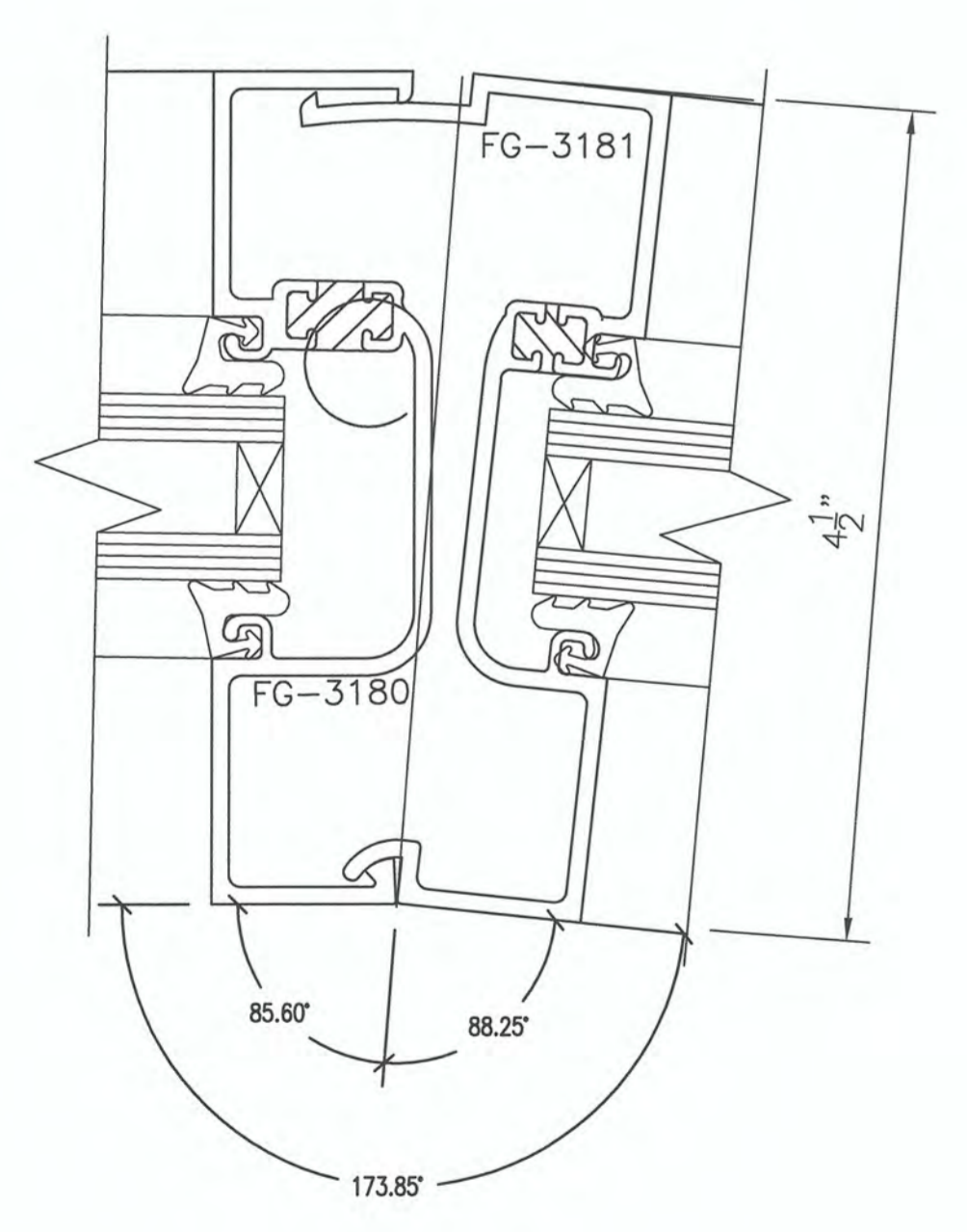
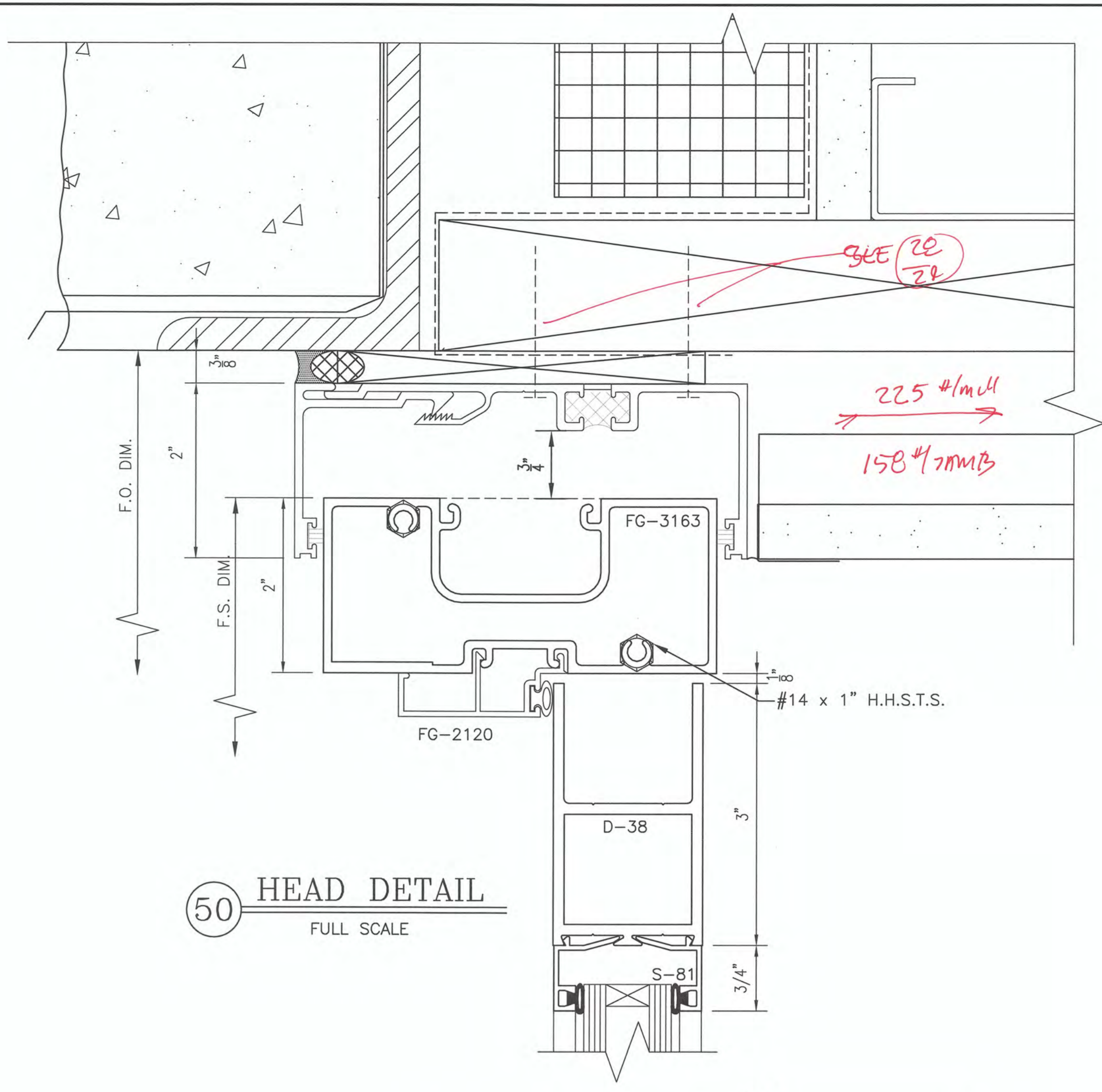
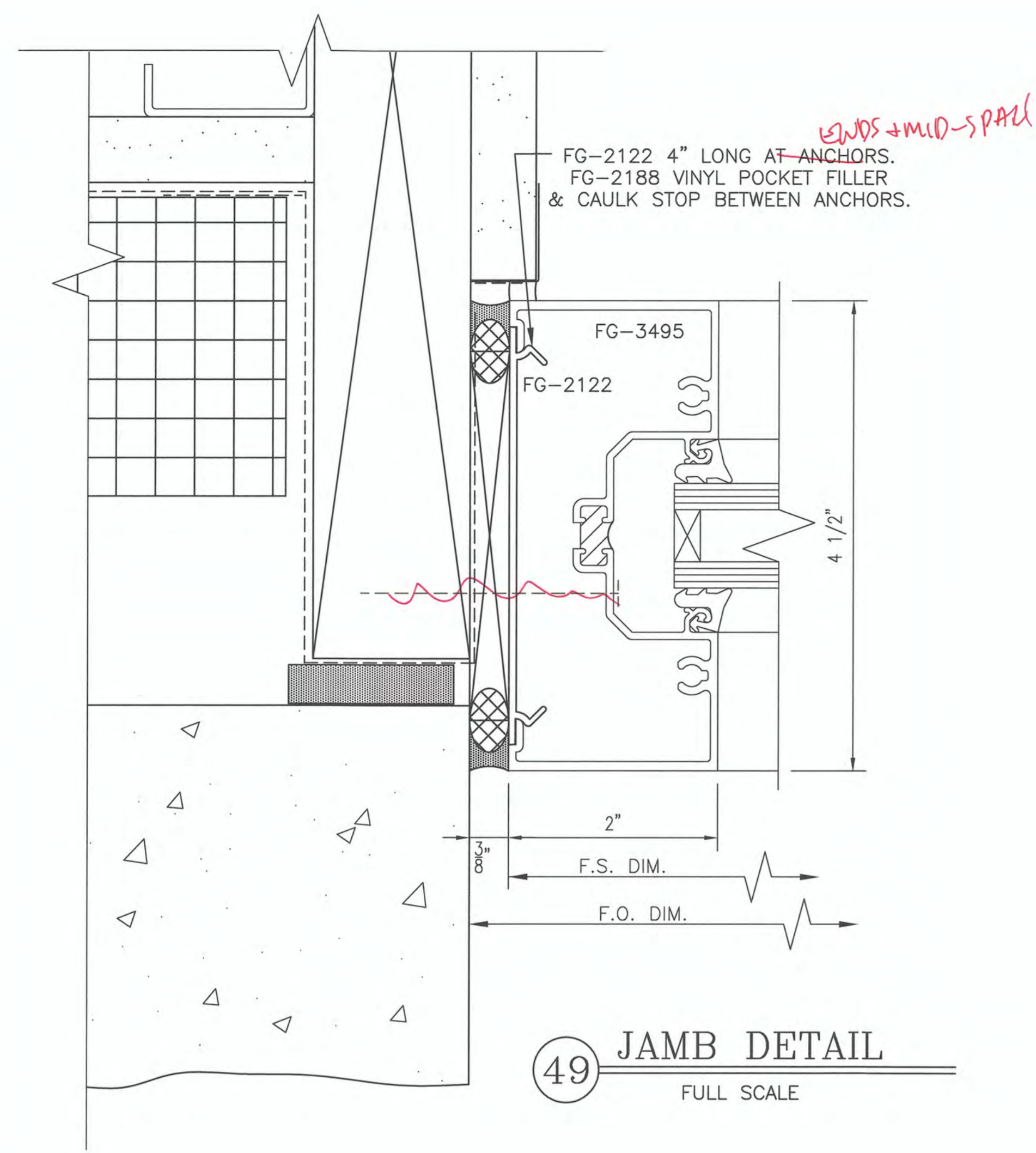
DATE: 2/25/16

SCALE: AS NOTED

DRAWN BY: W. PEASE

PG Portland Glass.

LAST REVISED: 2/25/16
 JOB NAME: THE PARK DANFORTH



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REVISIONS:

NO.	DATE:	DESCRIPTION:	NO.	DATE:	DESCRIPTION:

JOB NAME: THE PARK DANFORTH

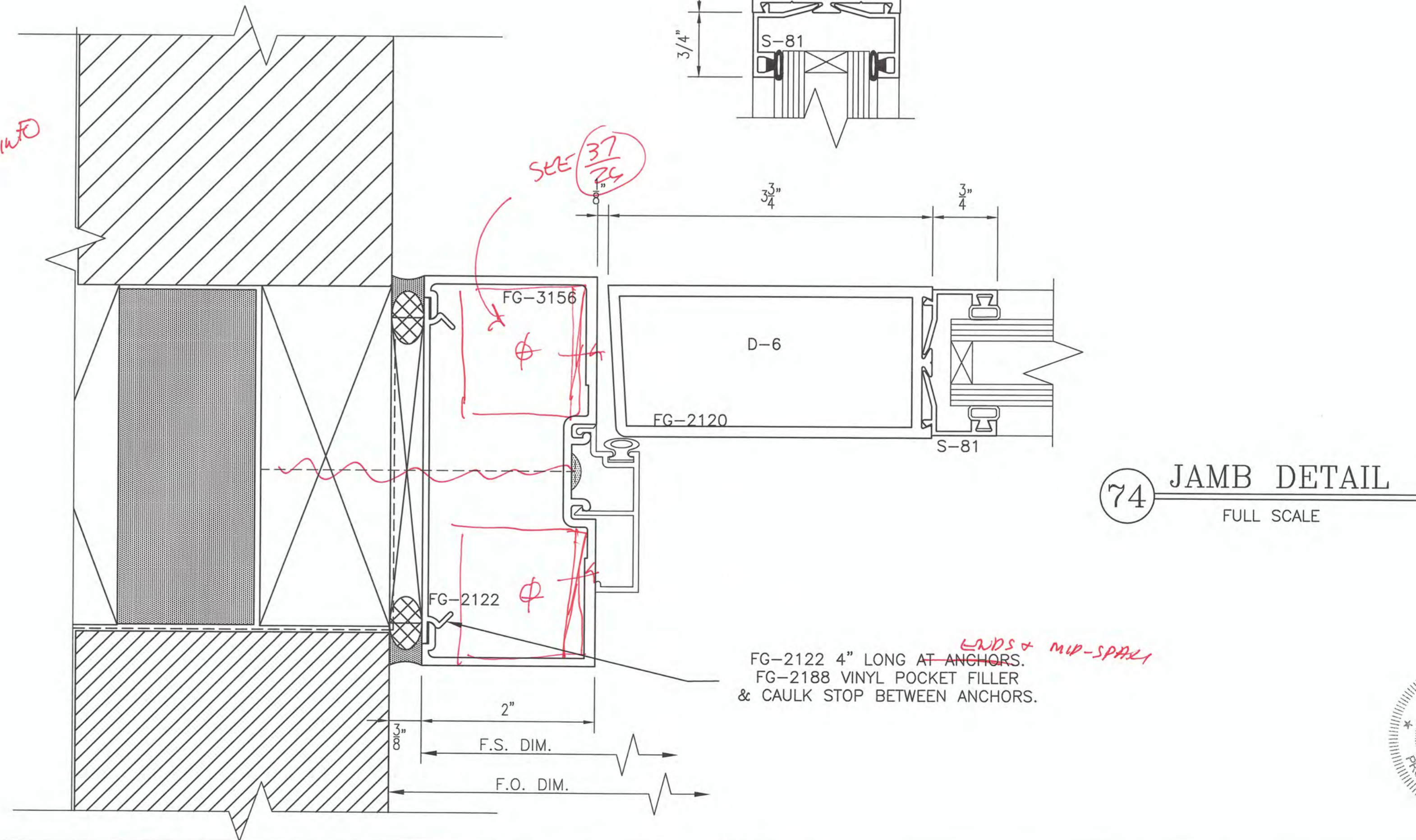
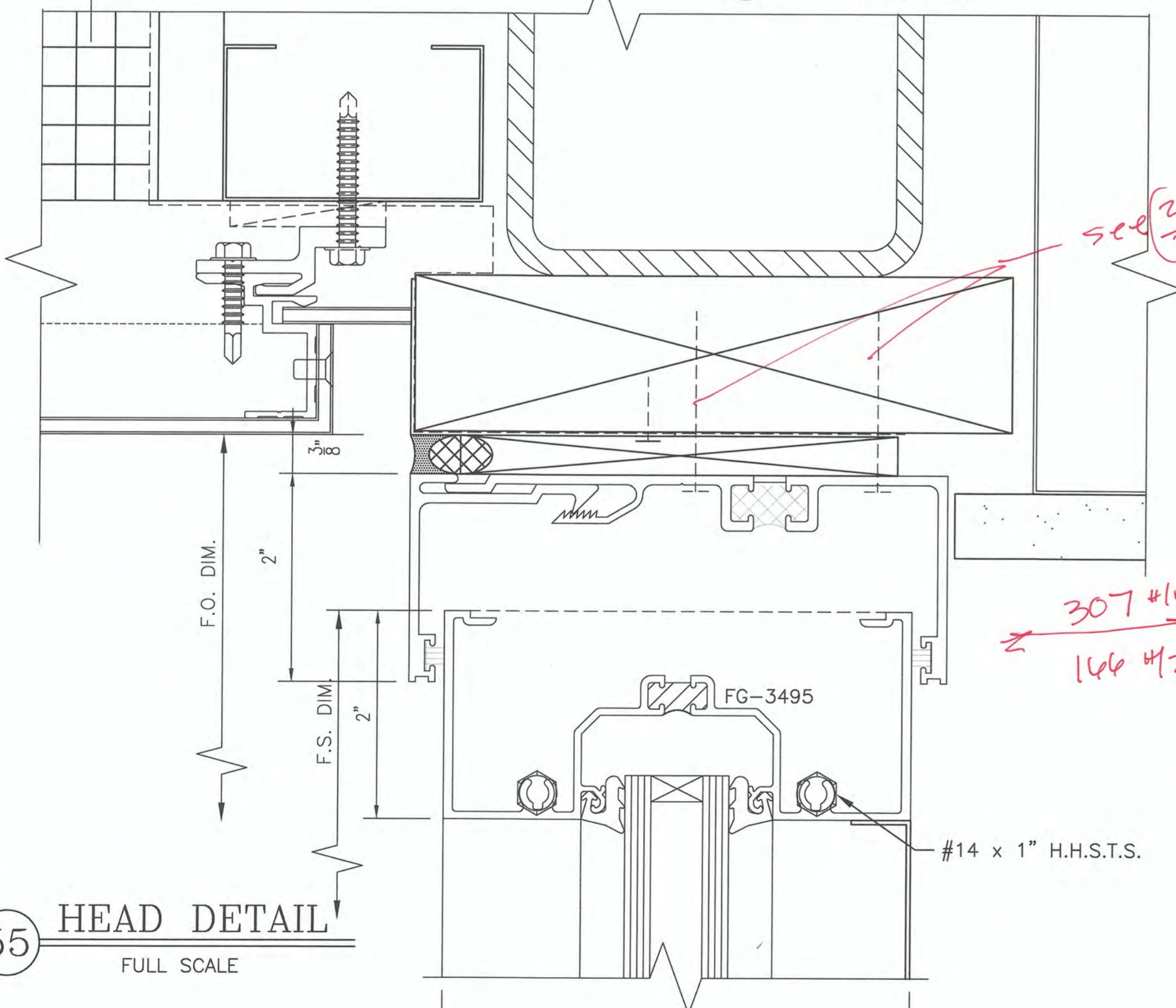
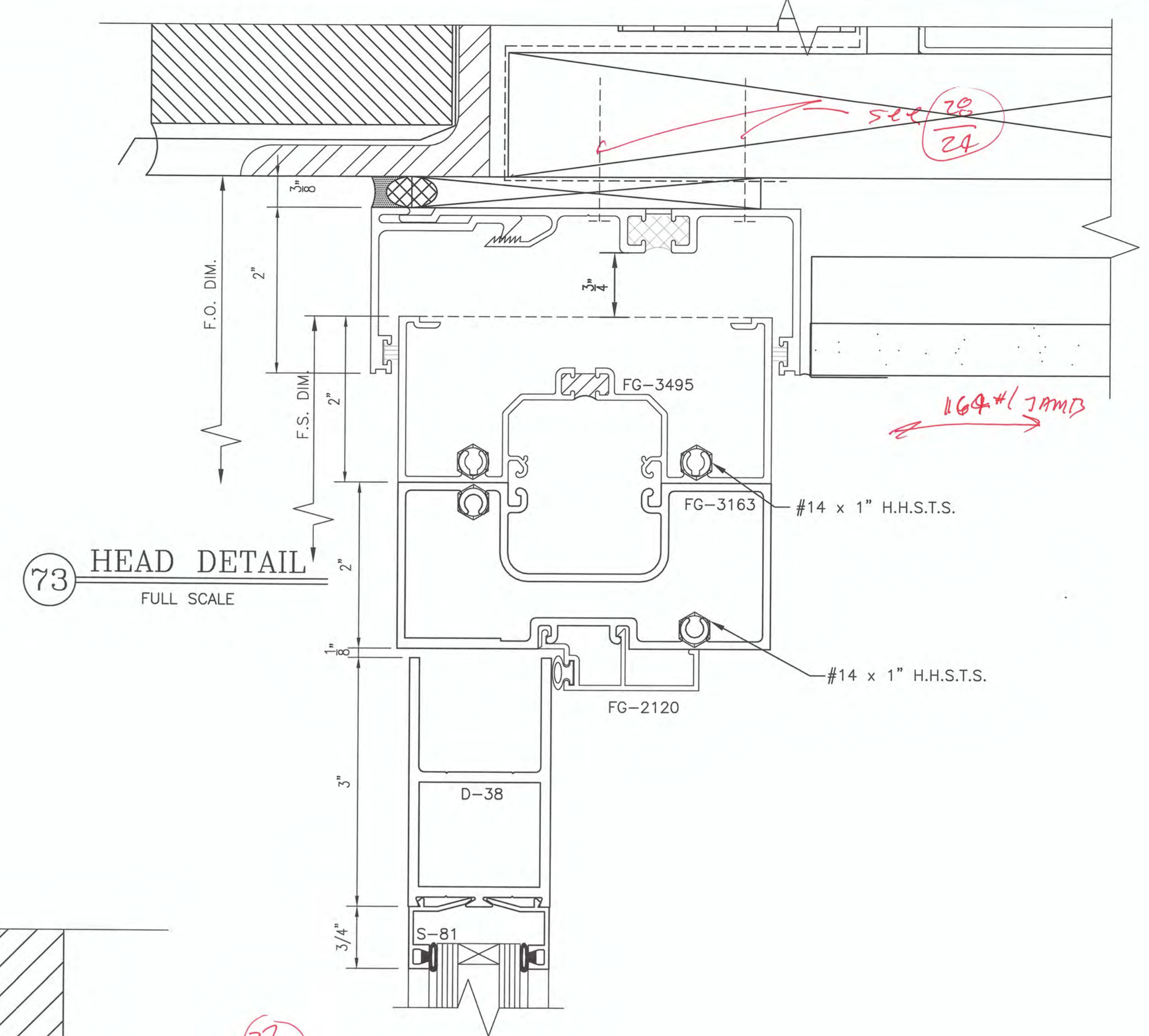
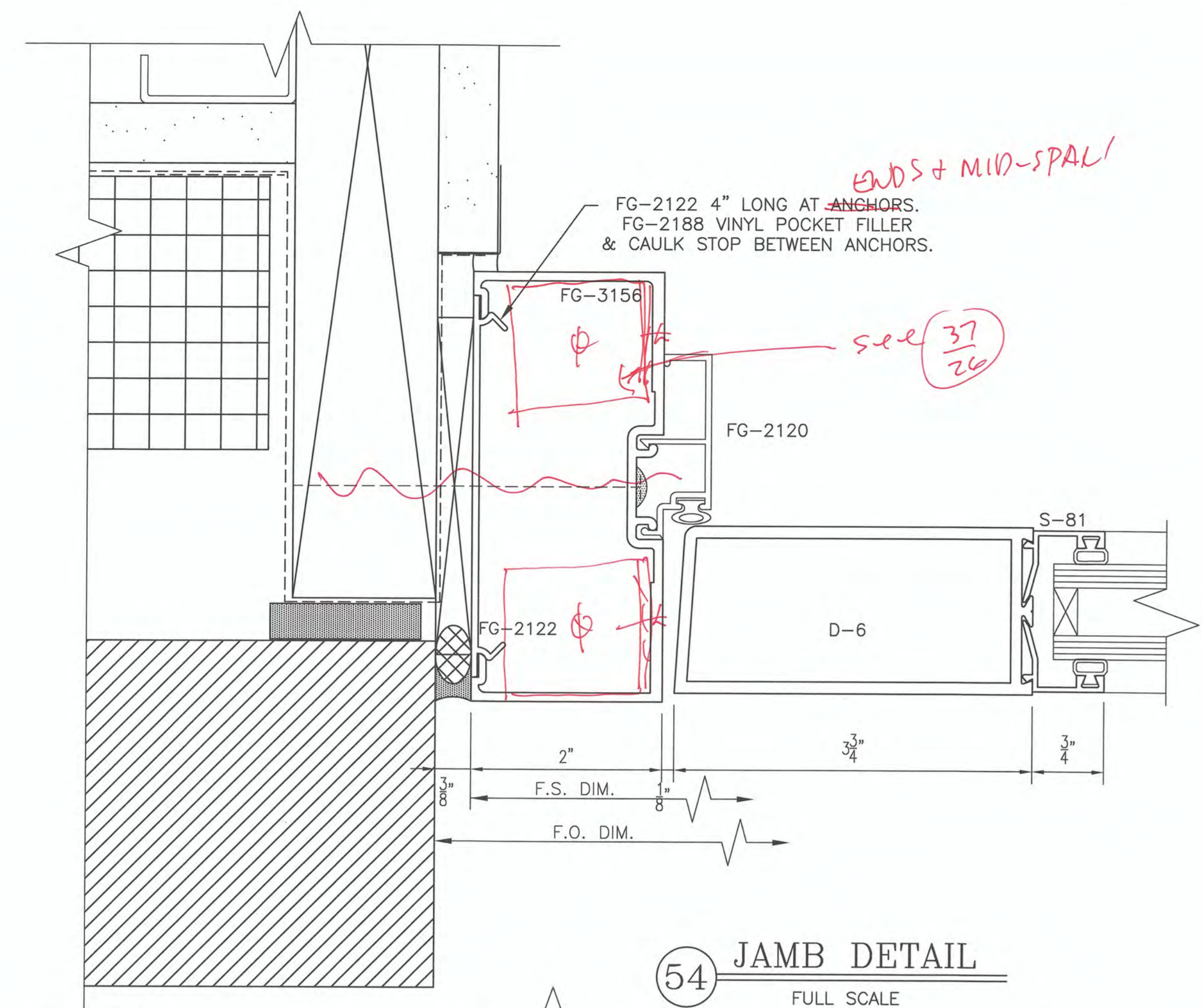
ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS

CONTRACTOR:

DATE: 2/25/16

SCALE: AS NOTED

DRAWN BY: W. PEASE



ABBREVIATIONS:

M.O. - MASONRY OPENING	F.S. - FRAME SIZE
F.O. - FINISHED OPENING	W.S. - WINDOW SIZE
D.O. - DOOR OPENING	REQ'D - REQUIRED
S.O. - STEEL OPENING	CLR. - CLEAR
A.F.F. - ABOVE FINISHED FLOOR	B.O.S. - BOTTOM OF STEEL
DIM. - DIMENSION	T.O.S. - TOP OF STEEL
¢ - CENTER LINE	NTS - NOT TO SCALE

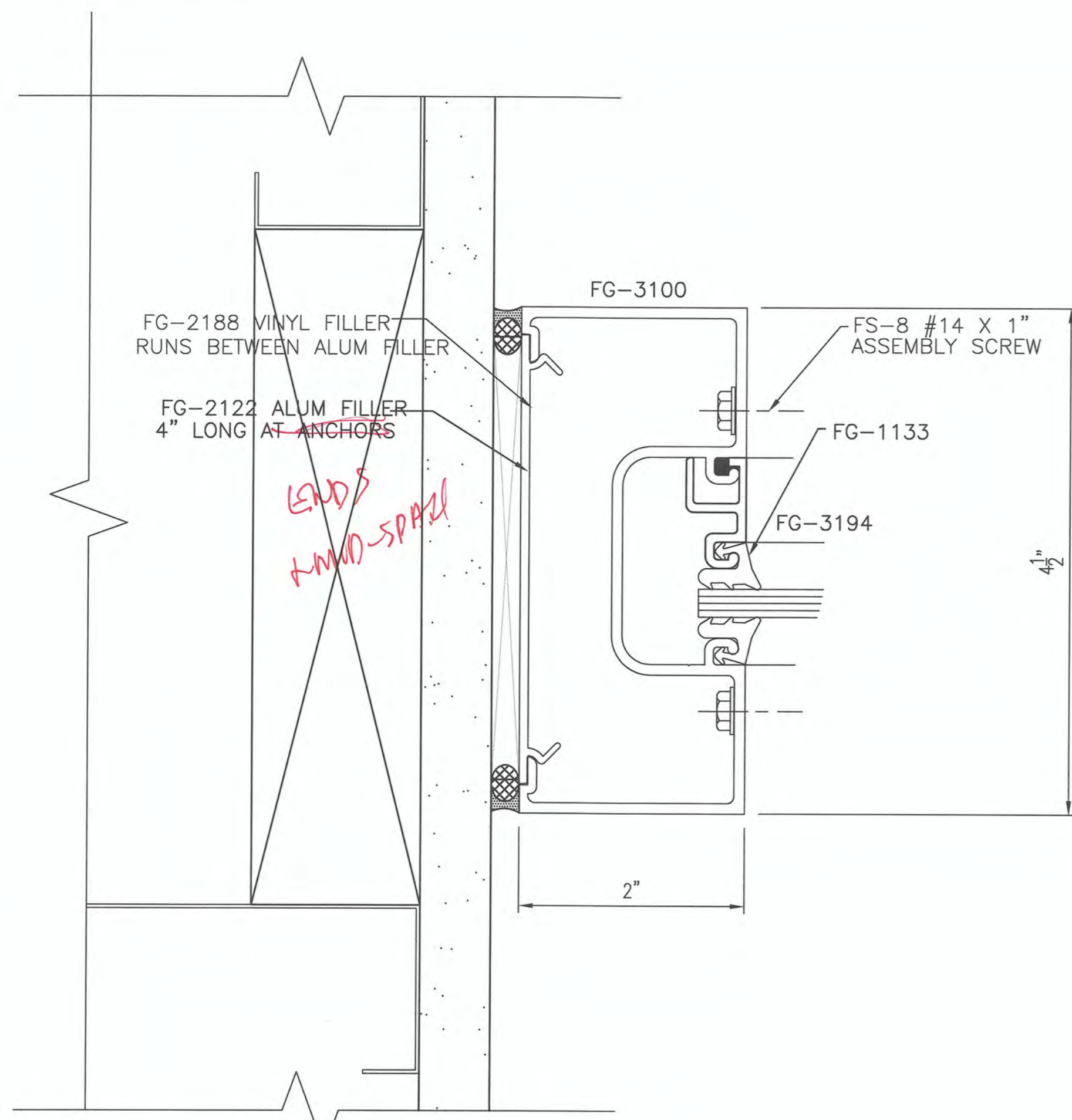
SYMBOLS:

	ELEVATION NUMBER
	DETAIL NUMBER

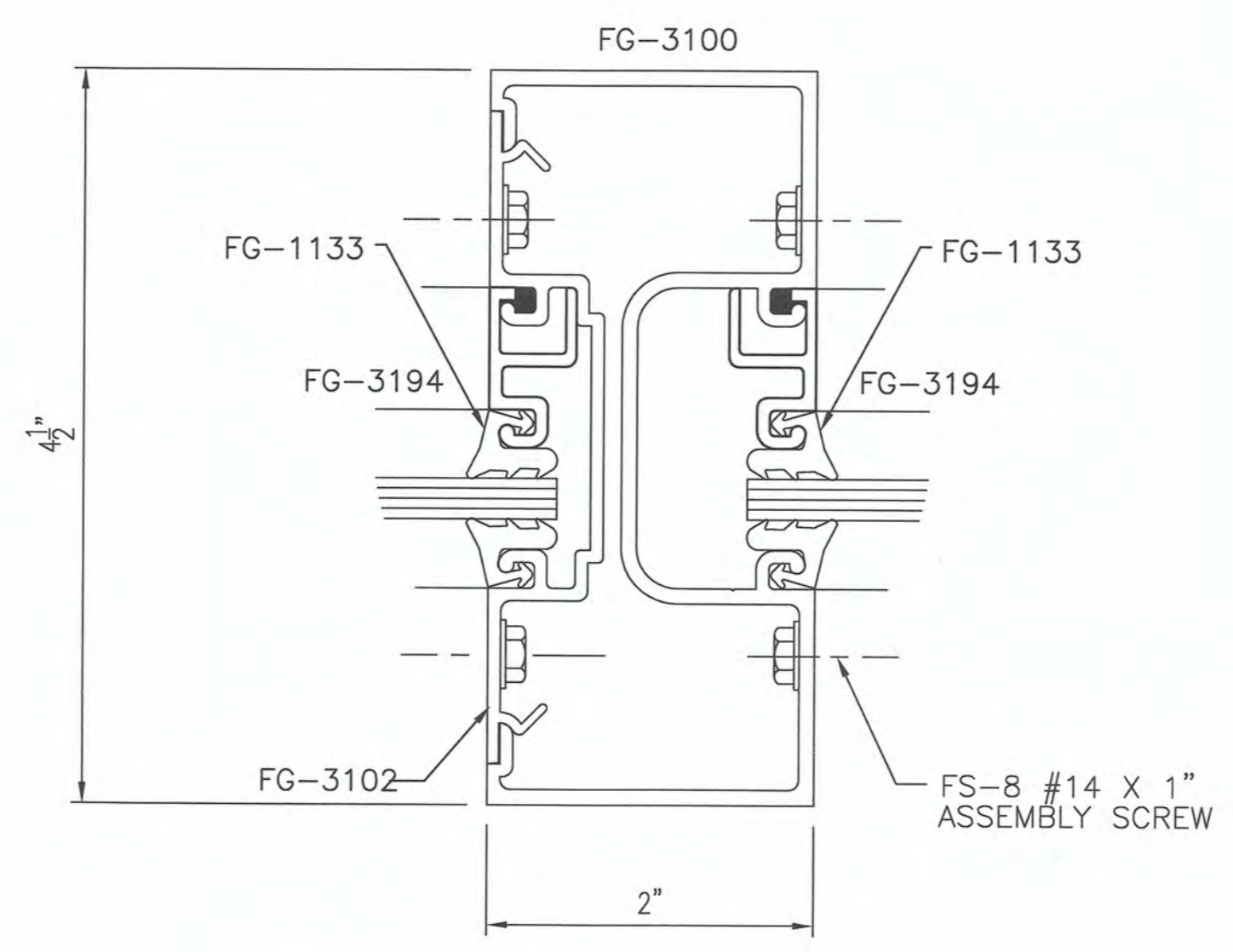
REVISIONS:

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

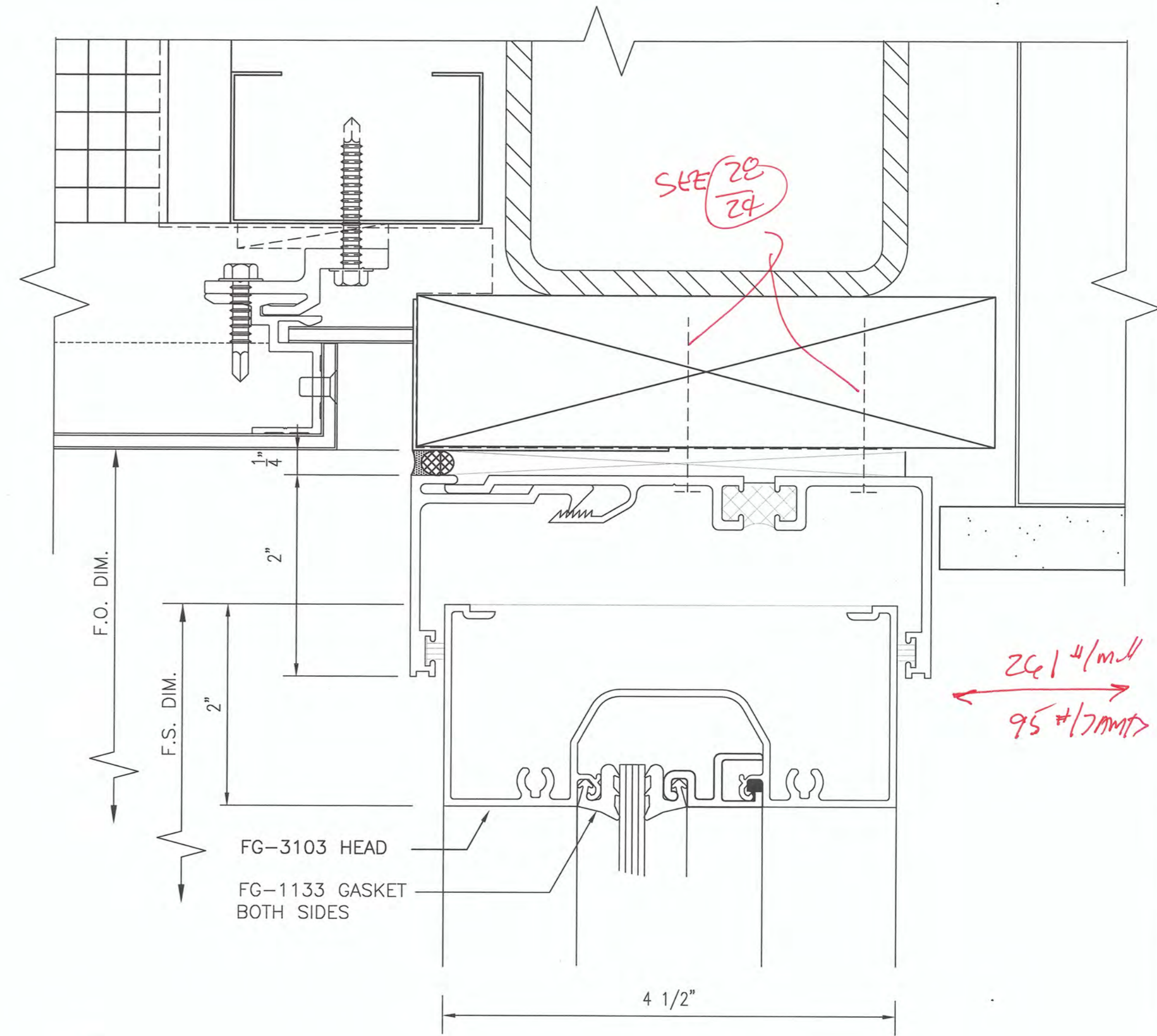
JOB NAME: THE PARK DANFORTH	DATE: 2/25/16	SHEET NUMBER 30 OF 33
ARCHITECT: LAVALLEE BRENSINGER ARCHITECTS	SCALE: AS NOTED	
CONTRACTOR:	DRAWN BY: W. PEASE	



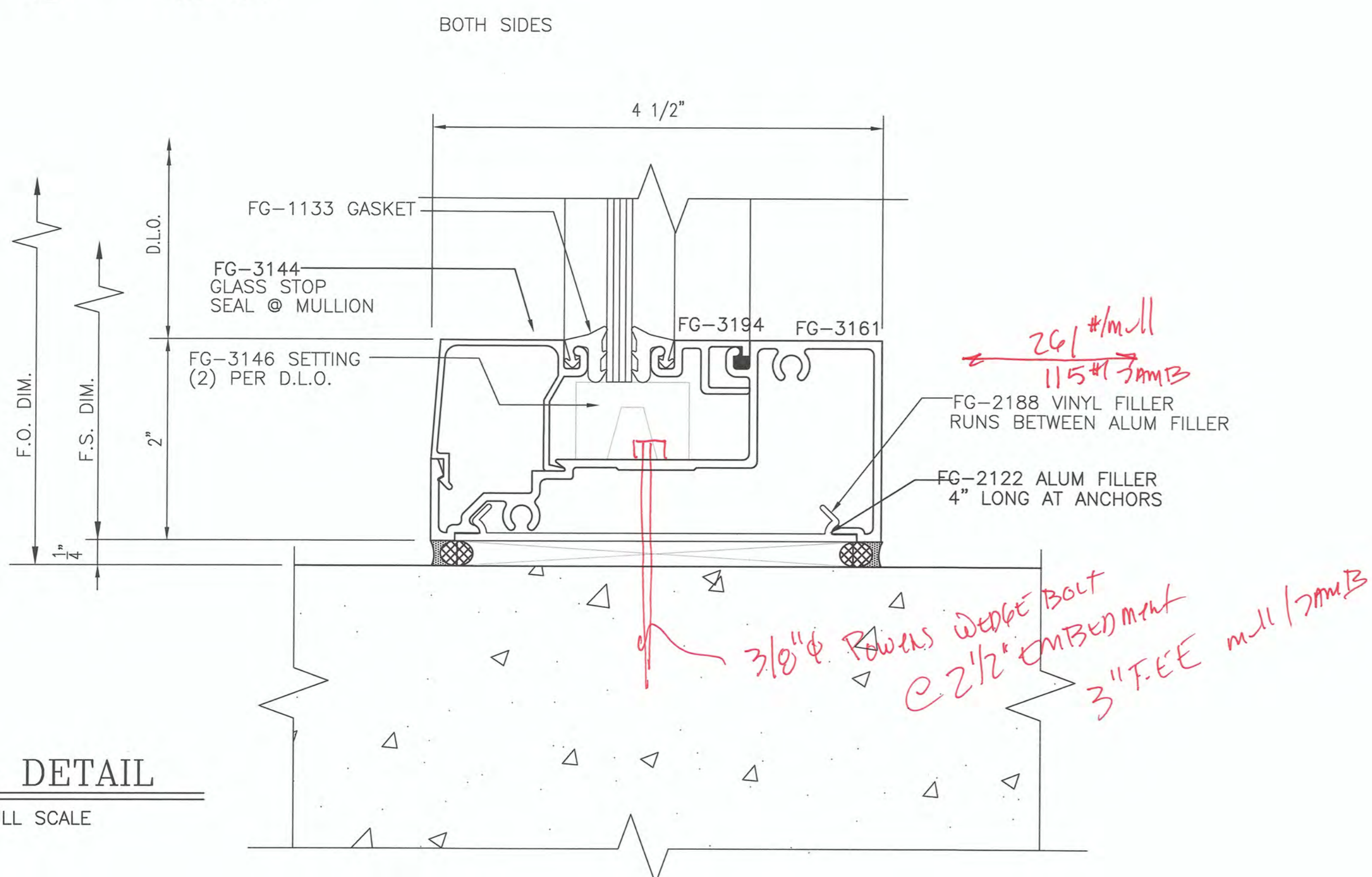
56 JAMB DETAIL
FULL SCALE



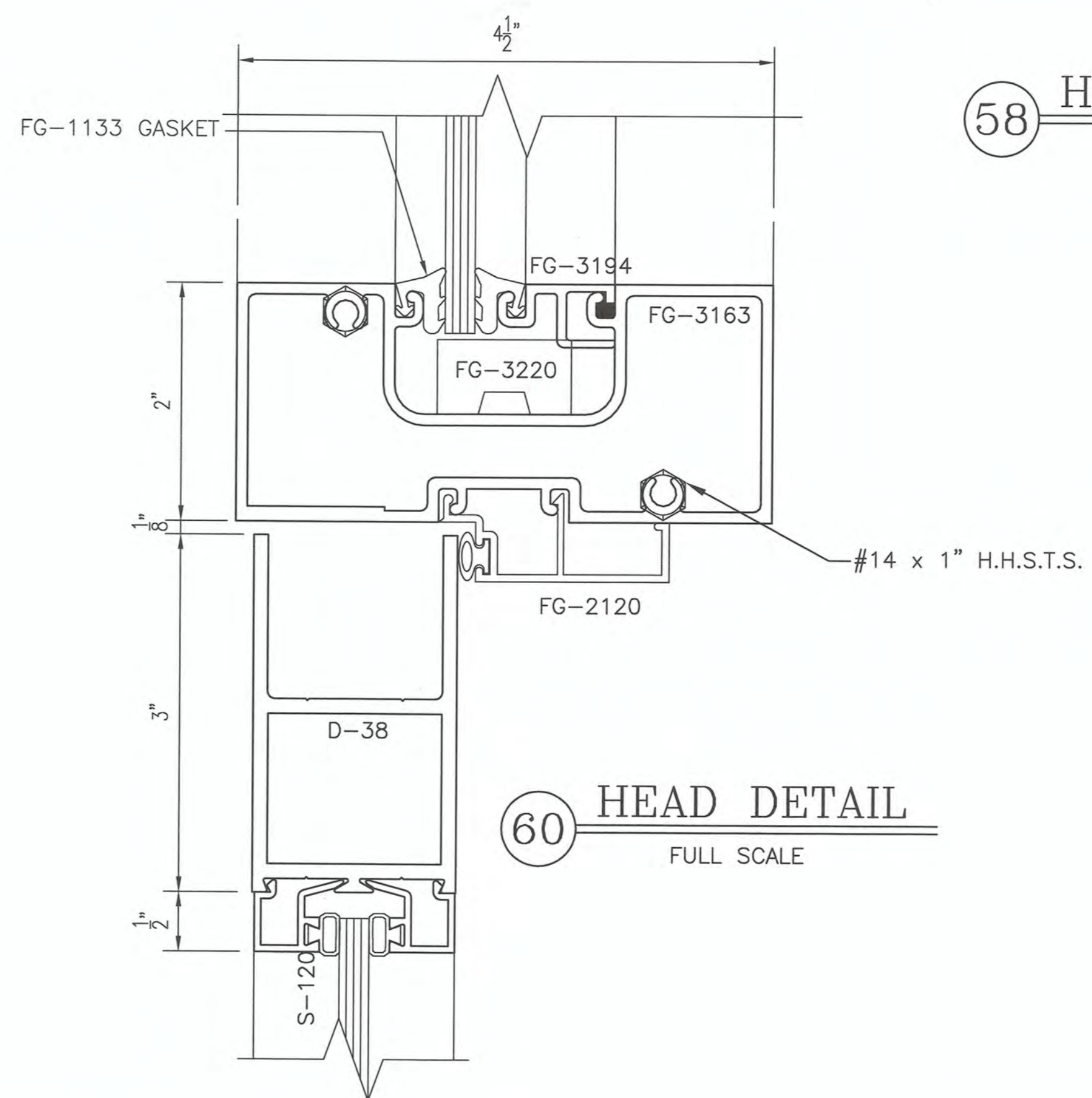
57 VERT. DETAIL
FULL SCALE



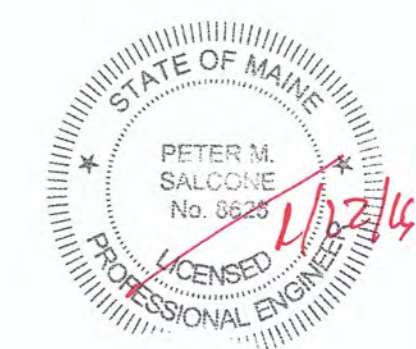
58 HEAD DETAIL
FULL SCALE



59 SILL DETAIL
FULL SCALE



60 HEAD DETAIL
FULL SCALE



PG PORTLAND GLASS
832 CONGRESS STREET
PORTLAND, MAINE 04102
PHONE: 207-774-9851
FAX: 207-774-9855

LAST REVISED: 2/25/16

PG Portland Glass.

JOB NAME: THE PARK DANFORTH

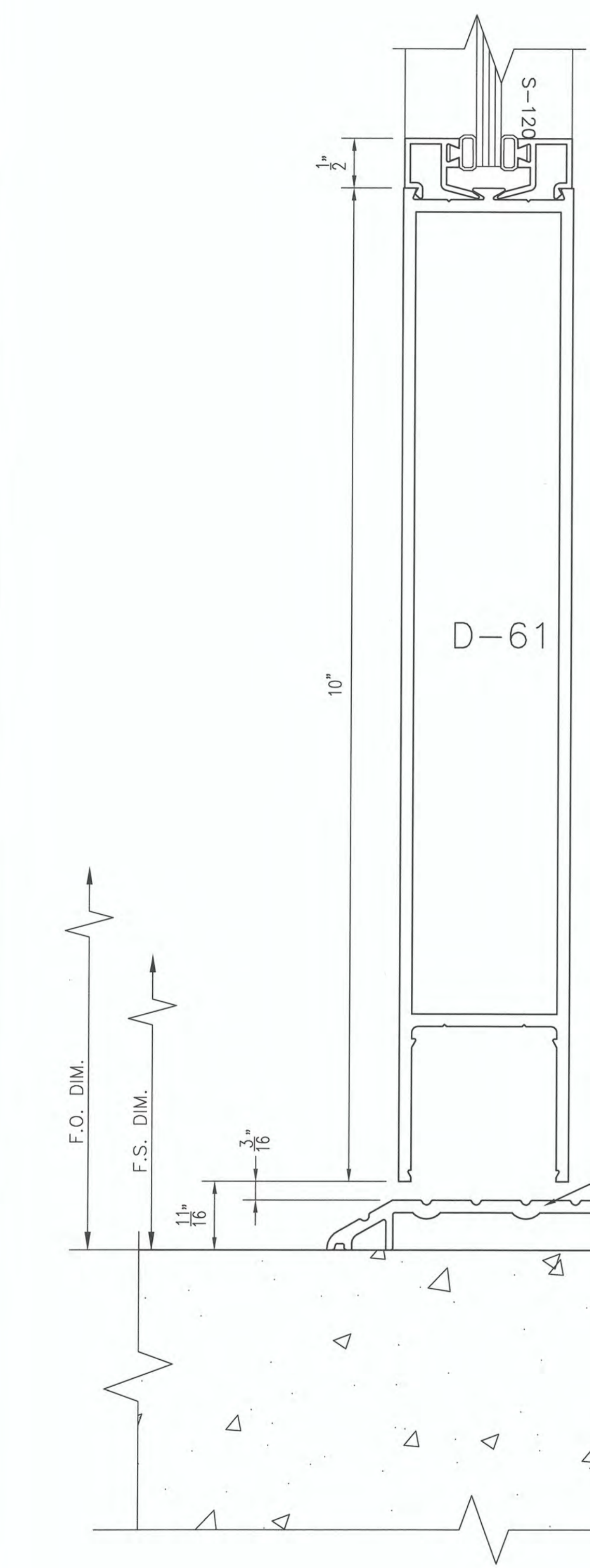
ABBREVIATIONS:	
M.O. - MASONRY OPENING	F.S. - FRAME SIZE
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A.F.F. - ABOVE FINISHED FLOOR	B.O.S. - BOTTOM OF STEEL
DIM. - DIMENSION	T.O.S. - TOP OF STEEL
Q - CENTER LINE	NTS - NOT TO SCALE

SYMBOLS:	
	ELEVATION NUMBER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER

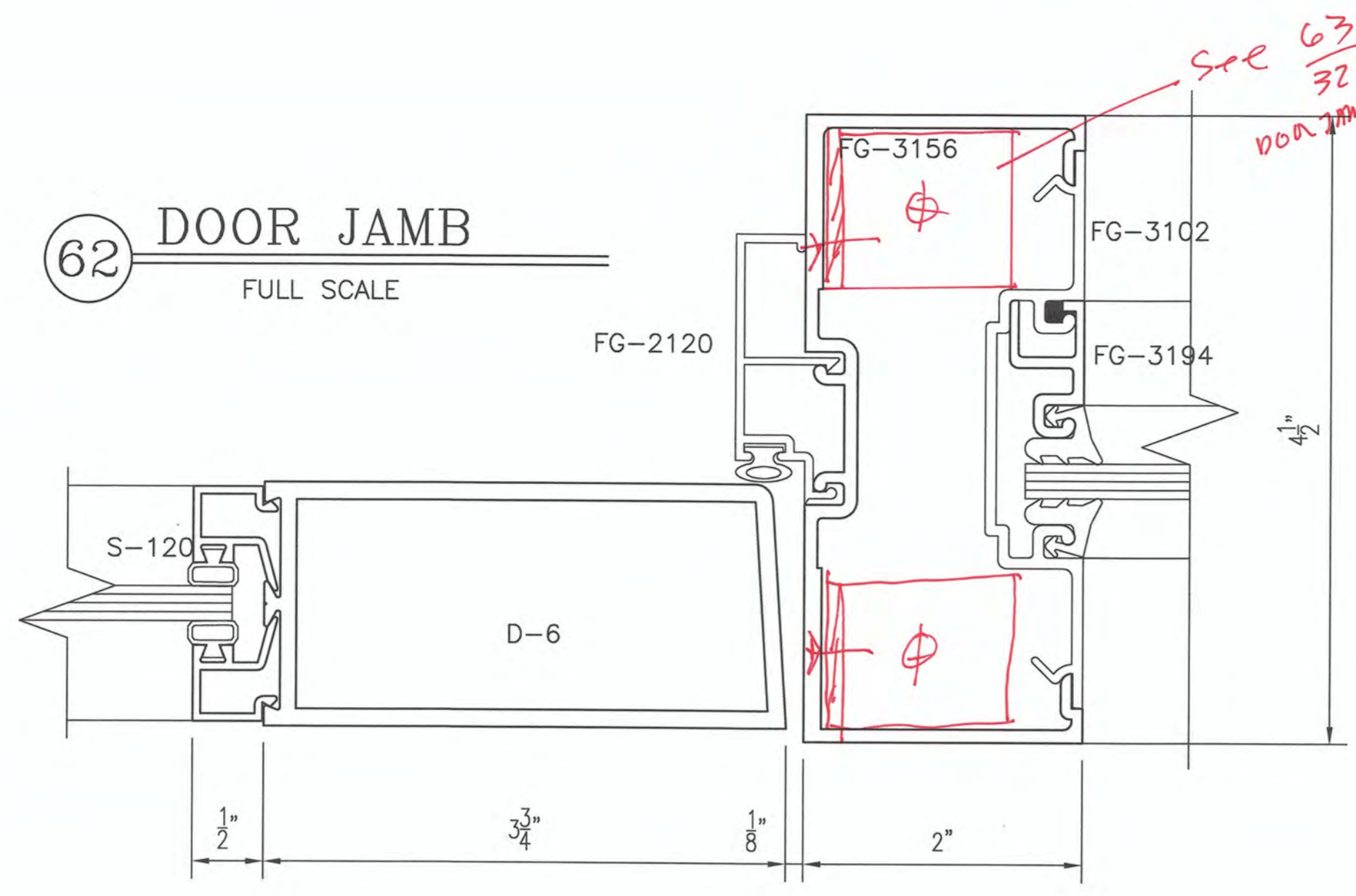
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NO.	DATE:	DESCRIPTION:	NO.

JOB NAME:	THE PARK DANFORTH
ARCHITECT:	LAVALLEE BRENSINGER ARCHITECTS
CONTRACTOR:	

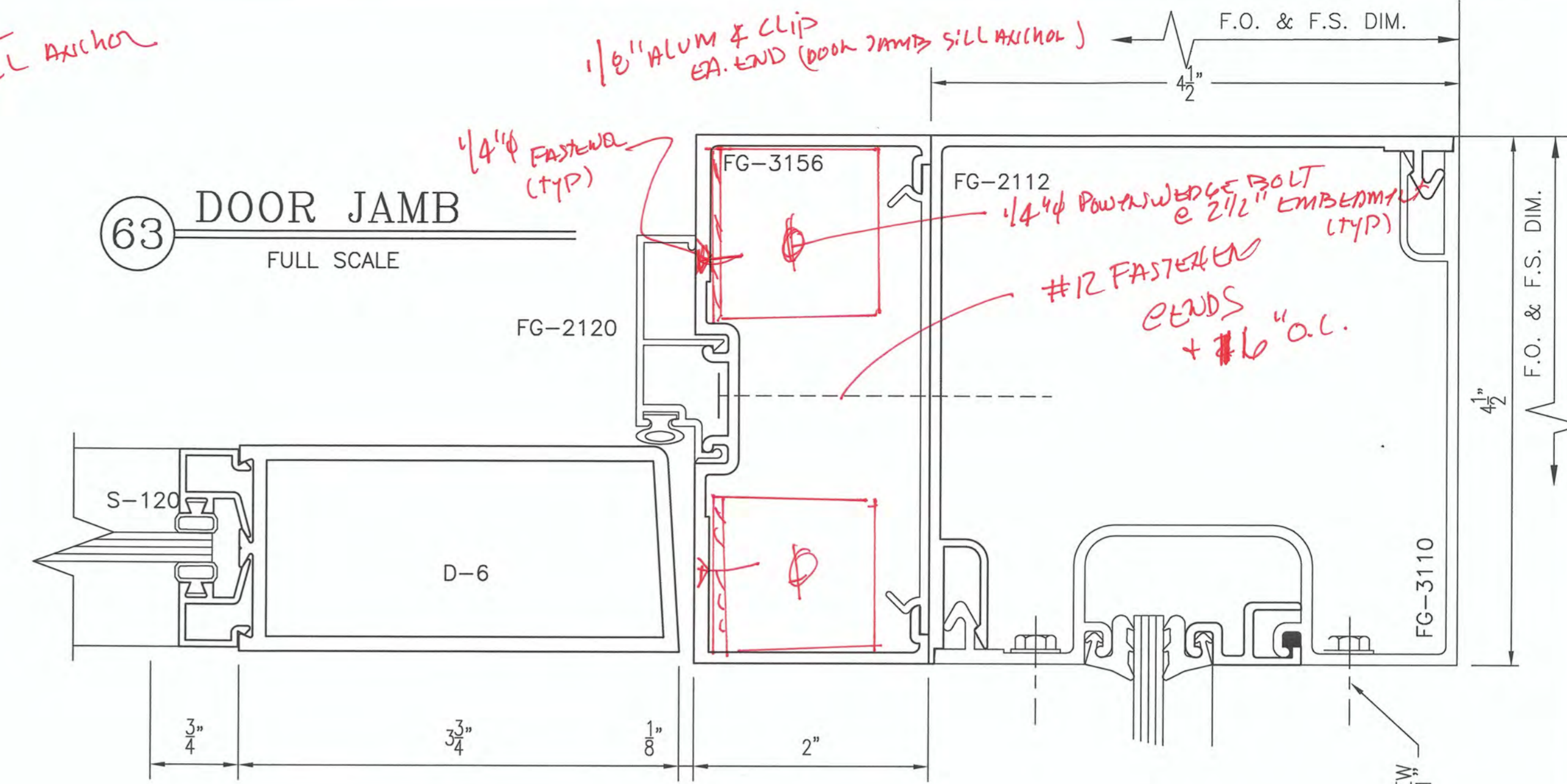
DATE:	2/25/16	SHEET NUMBER 31 of 33
SCALE:	AS NOTED	
DRAWN BY:	W. PEASE	



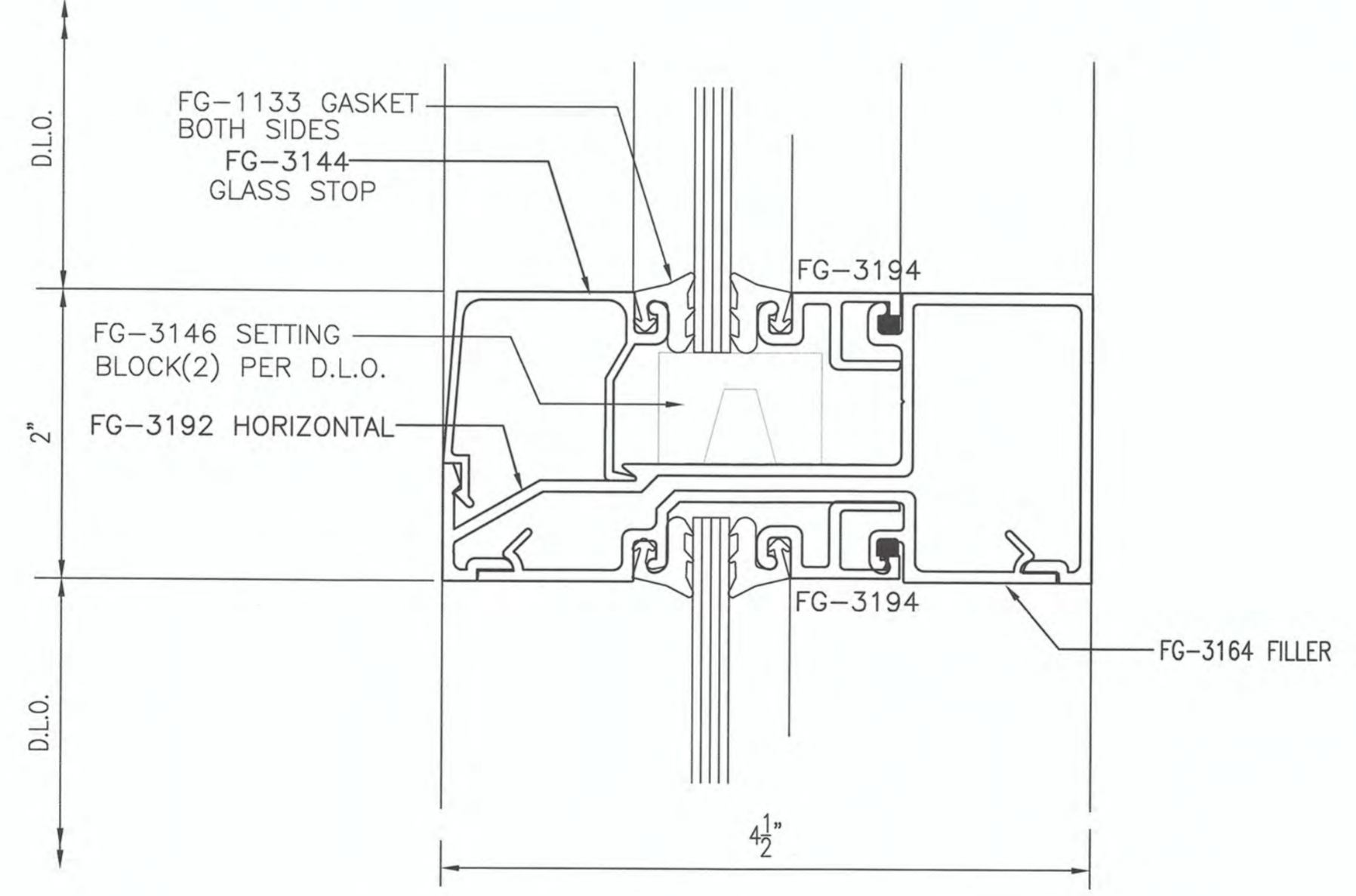
61 THRESHOLD
FULL SCALE



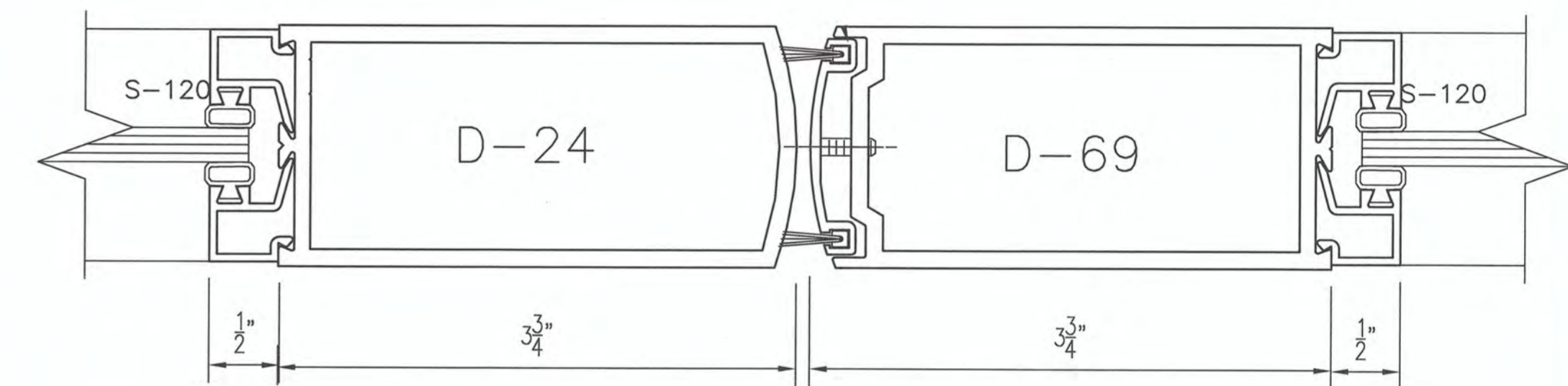
62 DOOR JAMB
FULL SCALE



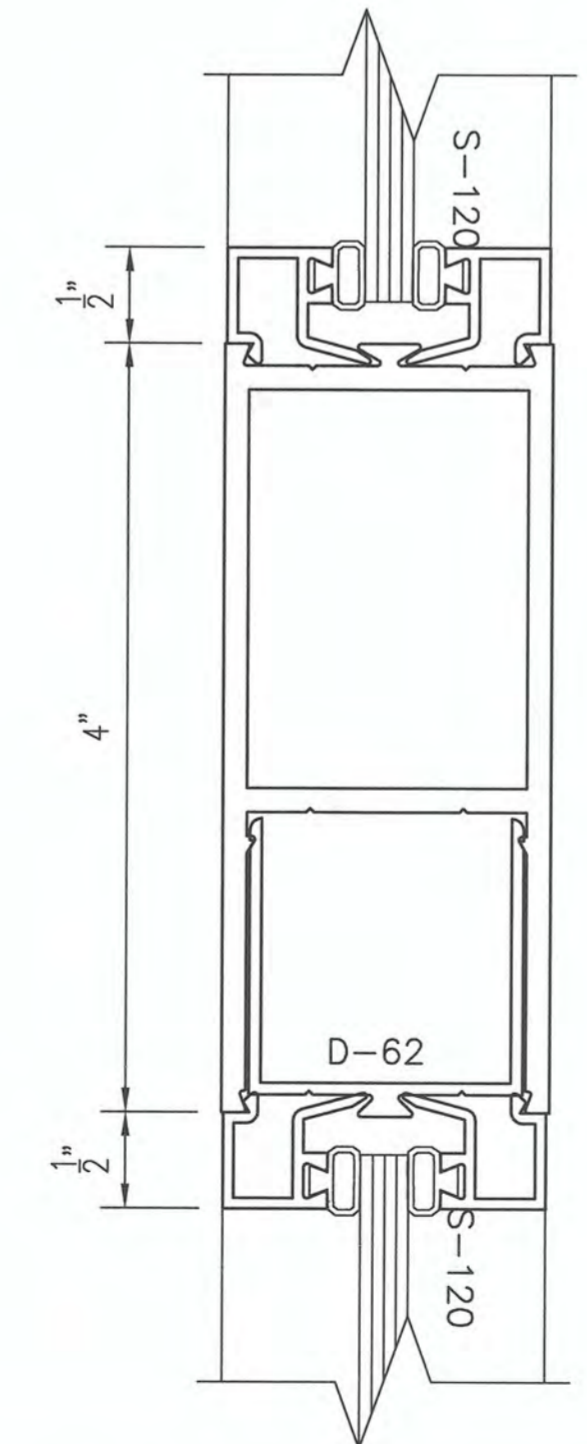
63 DOOR JAMB
FULL SCALE



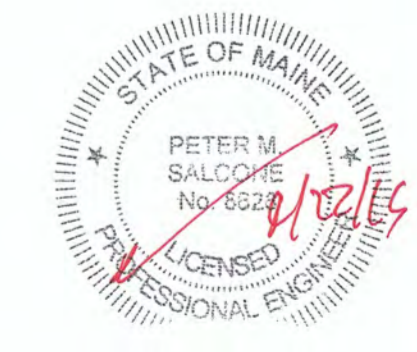
64 HORIZ. DETAIL
FULL SCALE



65 MEETING STILE
FULL SCALE



66 MIDRAIL
FULL SCALE



PG PORTLAND GLASS
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FAX: 207-774-9855

PG Portland Glass.

JOB NAME: THE PARK DANFORTH
LAST REVISED: 2/25/16

ABBREVIATIONS:	
M.O. - MASONRY OPENING	F.S. - FRAME SIZE
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SYMBOLS:	
	ELEVATION NUMBER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER

REVISIONS:			
NO.	DATE:	DESCRIPTION:	
1			
2			
3			
4			
5			

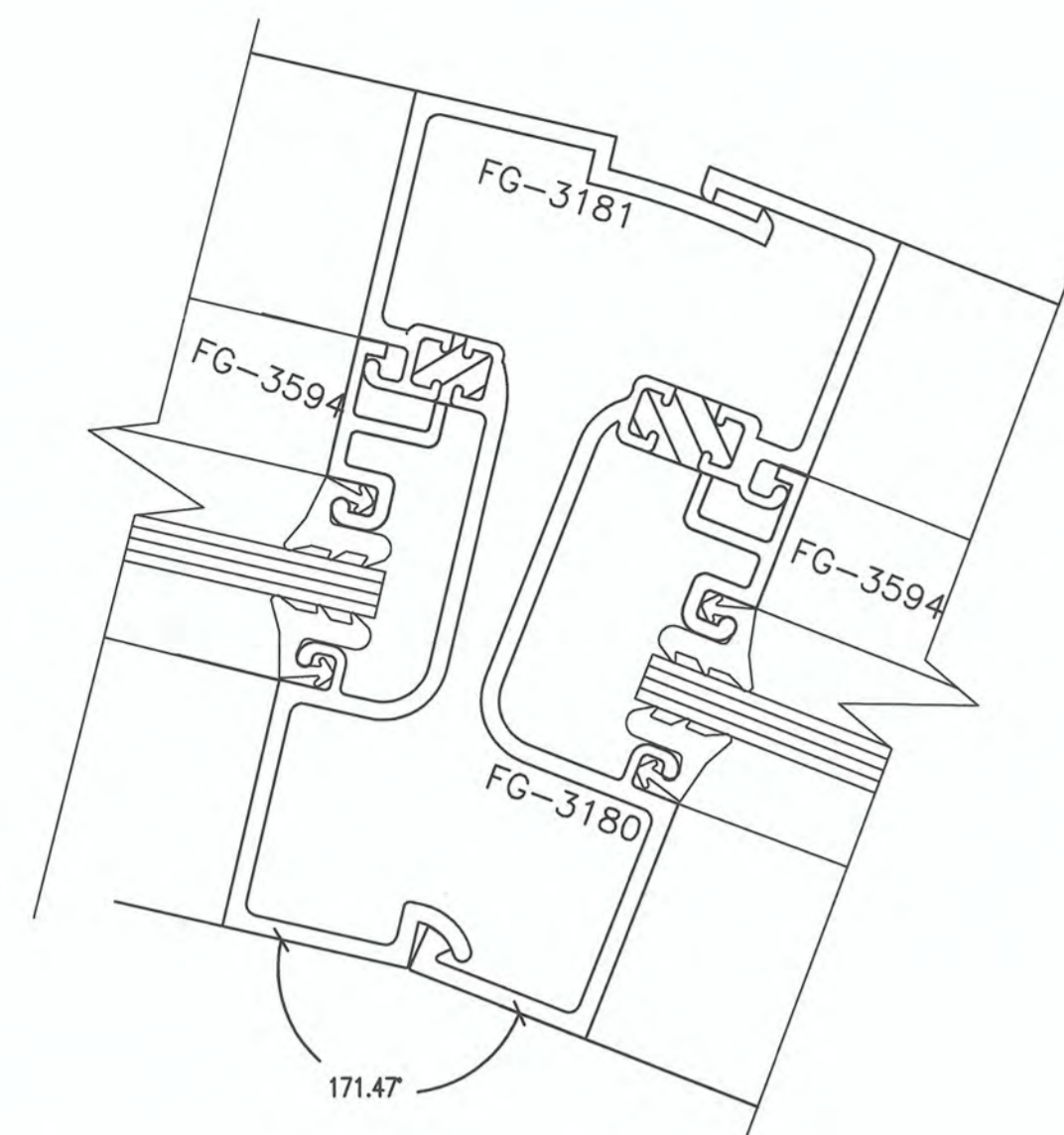
JOB NAME:	THE PARK DANFORTH
ARCHITECT:	LAVALLEE BRENSINGER ARCHITECTS
CONTRACTOR:	

DATE:	2/25/16
SCALE:	AS NOTED
DRAWN BY:	W. PEASE

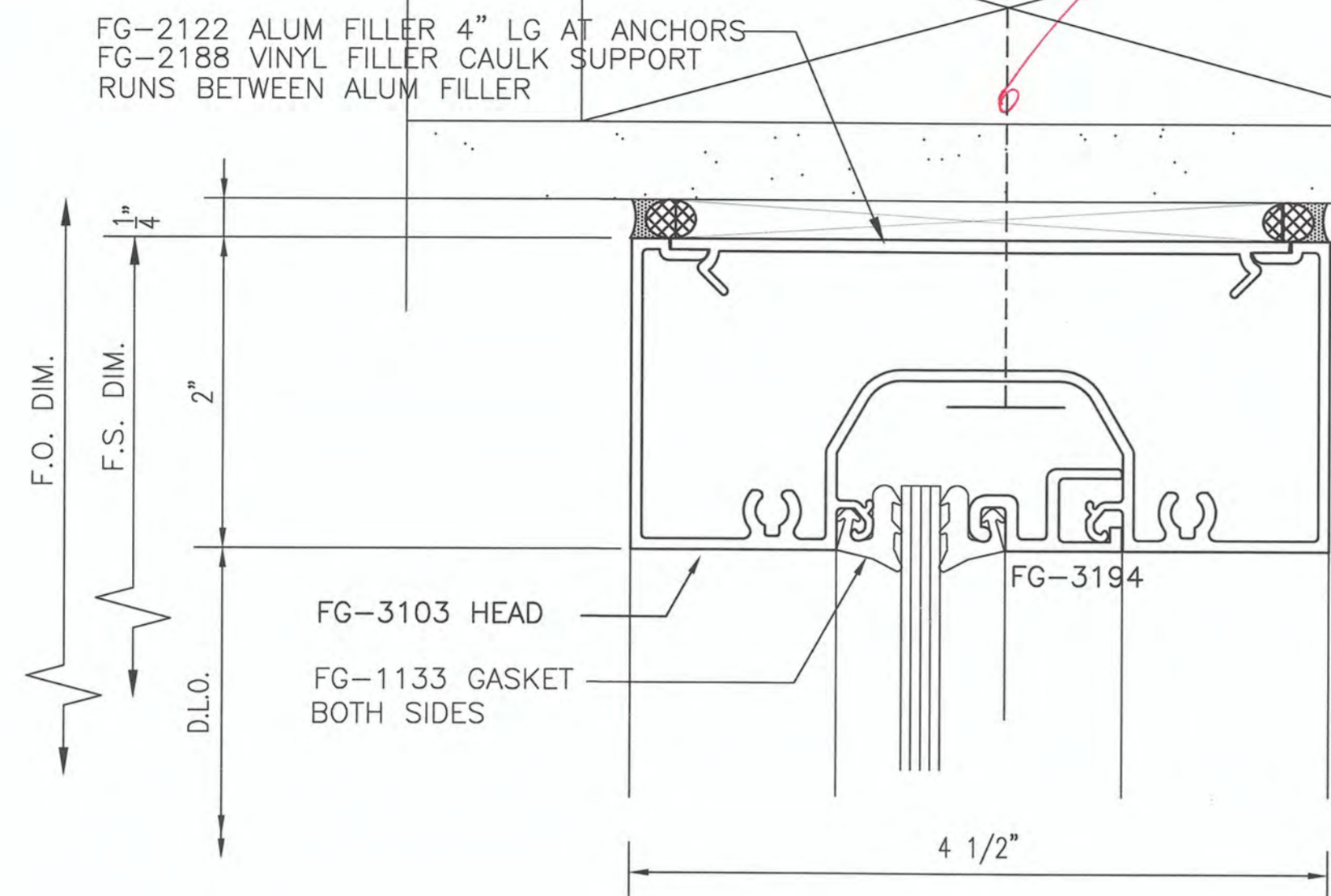
SHEET NUMBER	32 OF 33
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PG Portland Glass.

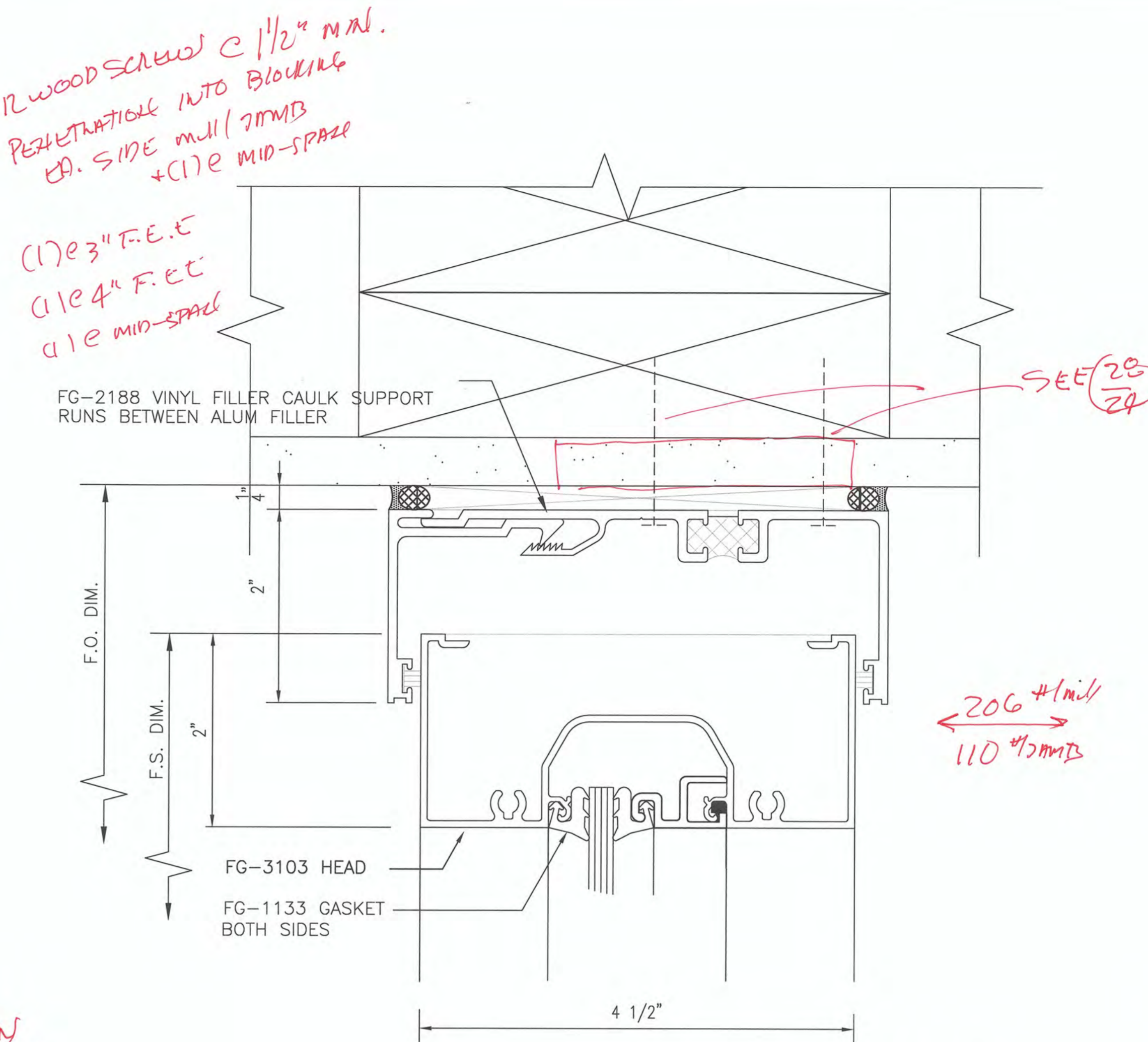
LAST REVISED: 2/25/16
 JOB NAME: THE PARK DANFORTH



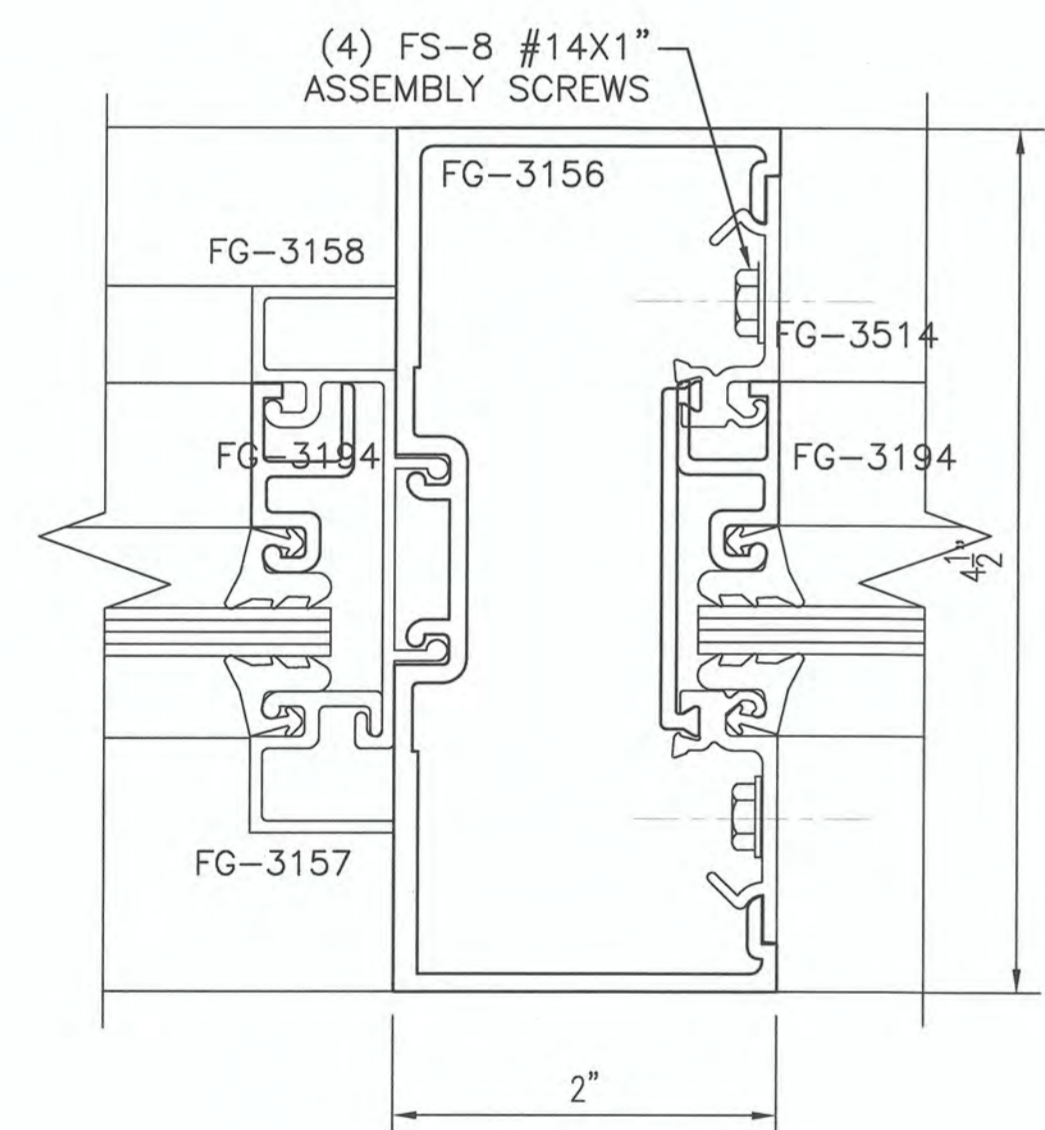
67 VERT. DETAIL
 FULL SCALE



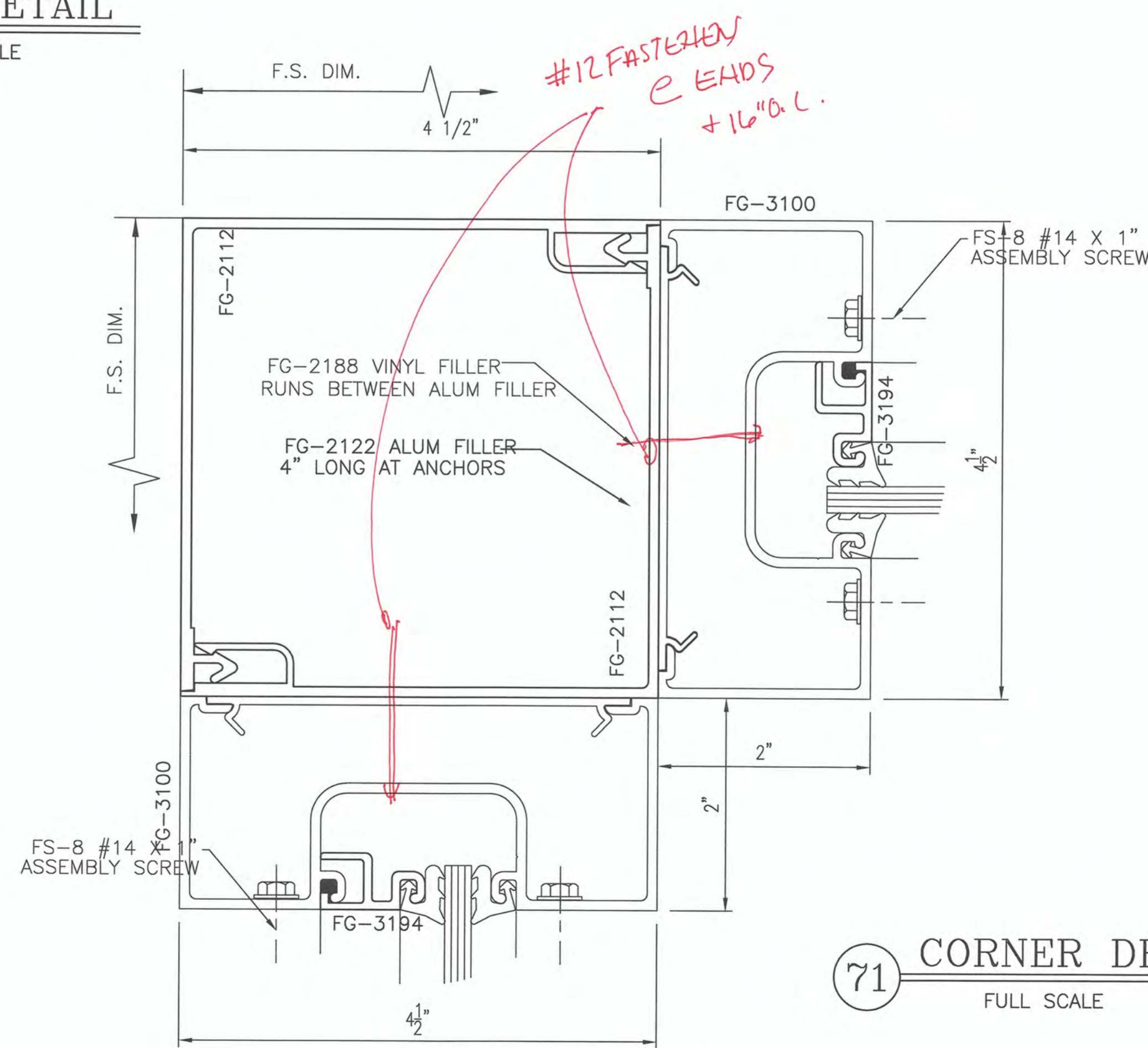
68 HEAD DETAIL
 FULL SCALE



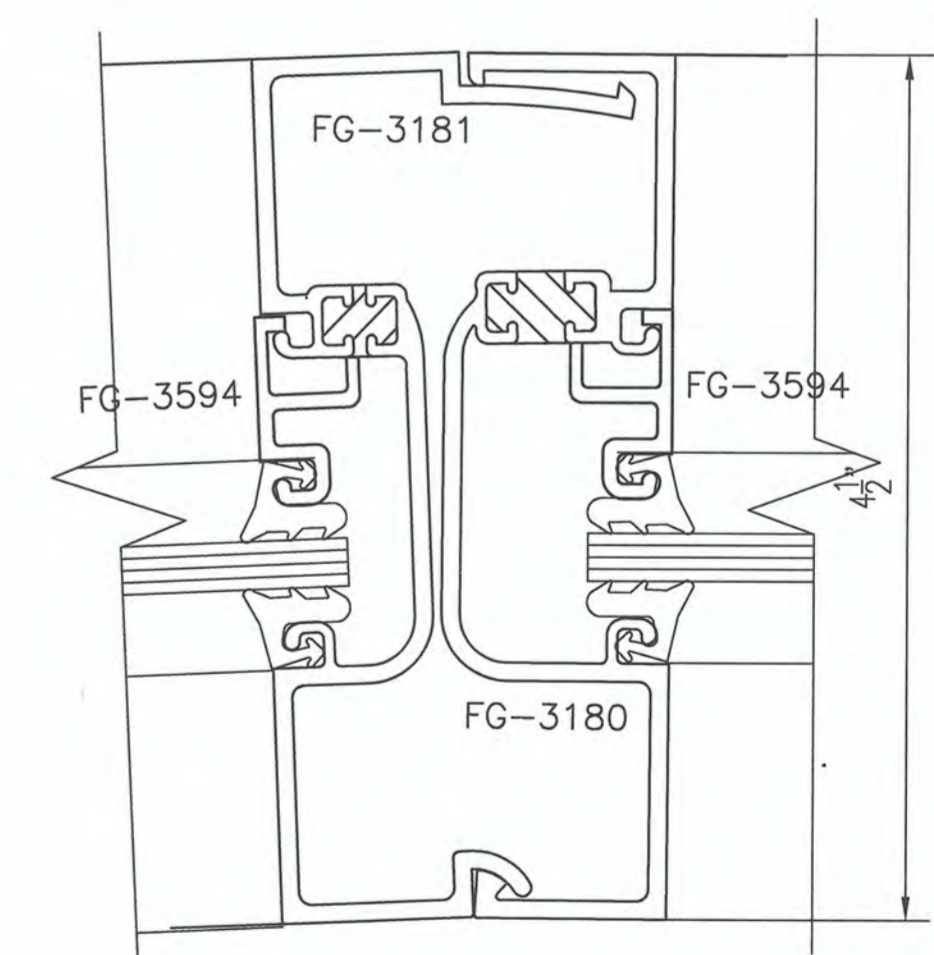
69 HEAD DETAIL
 FULL SCALE



70 VERT. DETAIL
 FULL SCALE



71 CORNER DETAIL
 FULL SCALE



72 VERT. DETAIL
 FULL SCALE



ABBREVIATIONS:

- M.O. - MASONRY OPENING
- F.O. - FINISHED OPENING
- D.O. - DOOR OPENING
- S.O. - STEEL OPENING
- A.F.F. - ABOVE FINISHED FLOOR
- DIM. - DIMENSION
- CL - CENTER LINE
- F.S. - FRAME SIZE
- W.S. - WINDOW SIZE
- REQ'D - REQUIRED
- CLR. - CLEAR
- B.O.S. - BOTTOM OF STEEL
- T.O.S. - TOP OF STEEL
- NTS - NOT TO SCALE

SYMBOLS:

- ELEVATION NUMBER SHEET NUMBER
- DETAIL NUMBER SHEET NUMBER

REVISIONS:

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

JOB NAME:	THE PARK DANFORTH
ARCHITECT:	LAVALLEE BRENSINGER ARCHITECTS
CONTRACTOR:	

DATE:	2/25/16
SCALE:	AS NOTED
DRAWN BY:	W. PEASE

SHEET NUMBER	33 of 33
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