



COMMISSION OF ARCHITECTURAL REVIEW

APPLICATION FOR CERTIFICATE OF APPROPRIATENESS

PROPERTY (location of work)

Address _____

Historic district _____

Date/time rec'd: _____

Rec'd by: _____

Application #: _____

Hearing date: _____

APPLICANT INFORMATION

Name _____

Phone _____

Company _____

Email _____

Mailing Address _____

Applicant Type: ☐ Owner ☐ Agent

☐ Lessee ☐ Architect ☐ Contractor

☐ Other (please specify): _____

OWNER INFORMATION (if different from above)

Name _____

Company _____

Mailing Address _____

Phone _____

Email _____

PROJECT INFORMATION

Review Type: ☐ Conceptual Review ☐ Final Review

Project Type: ☐ Alteration ☐ Demolition ☐ New Construction
(Conceptual Review Required)

Project Description: (attach additional sheets if needed)

ACKNOWLEDGEMENT OF RESPONSIBILITY

Compliance: If granted, you agree to comply with all conditions of the certificate of appropriateness (COA). Revisions to approved work require staff review and may require a new application and approval from the Commission of Architectural Review (CAR). Failure to comply with the COA may result in project delays or legal action. The COA is valid for one (1) year and may be extended for an additional year, upon written request.

Requirements: A complete application includes all applicable information requested on checklists to provide a complete and accurate description of existing and proposed conditions. Applicants proposing major new construction, including additions, should meet with Staff to review the application and requirements prior to submitting an application. Owner contact information and signature is required. Late or incomplete applications will not be considered.

Zoning Requirements: Prior to Commission review, it is the responsibility of the applicant to determine if zoning approval is required and application materials should be prepared in compliance with zoning.

Signature of Owner

on behalf of 2314 Jefferson Avenue, LLC

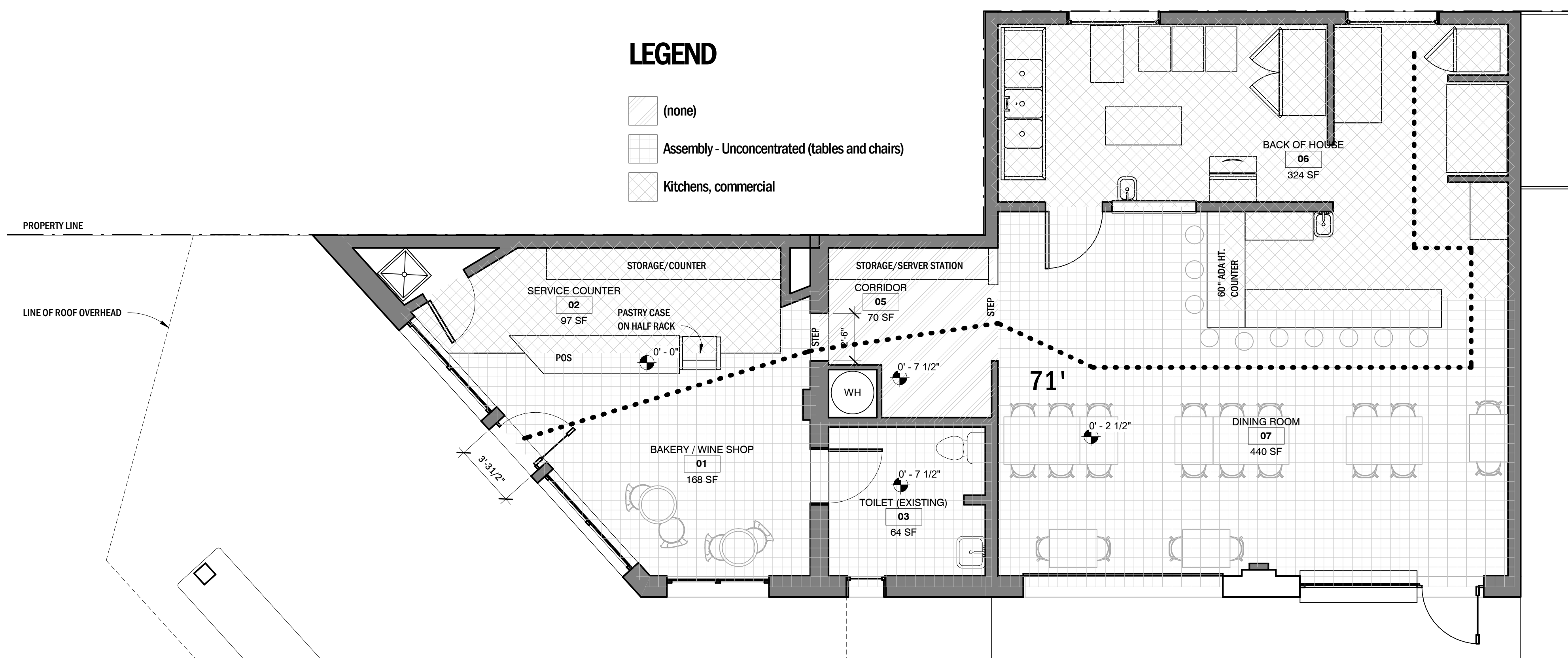
Date _____



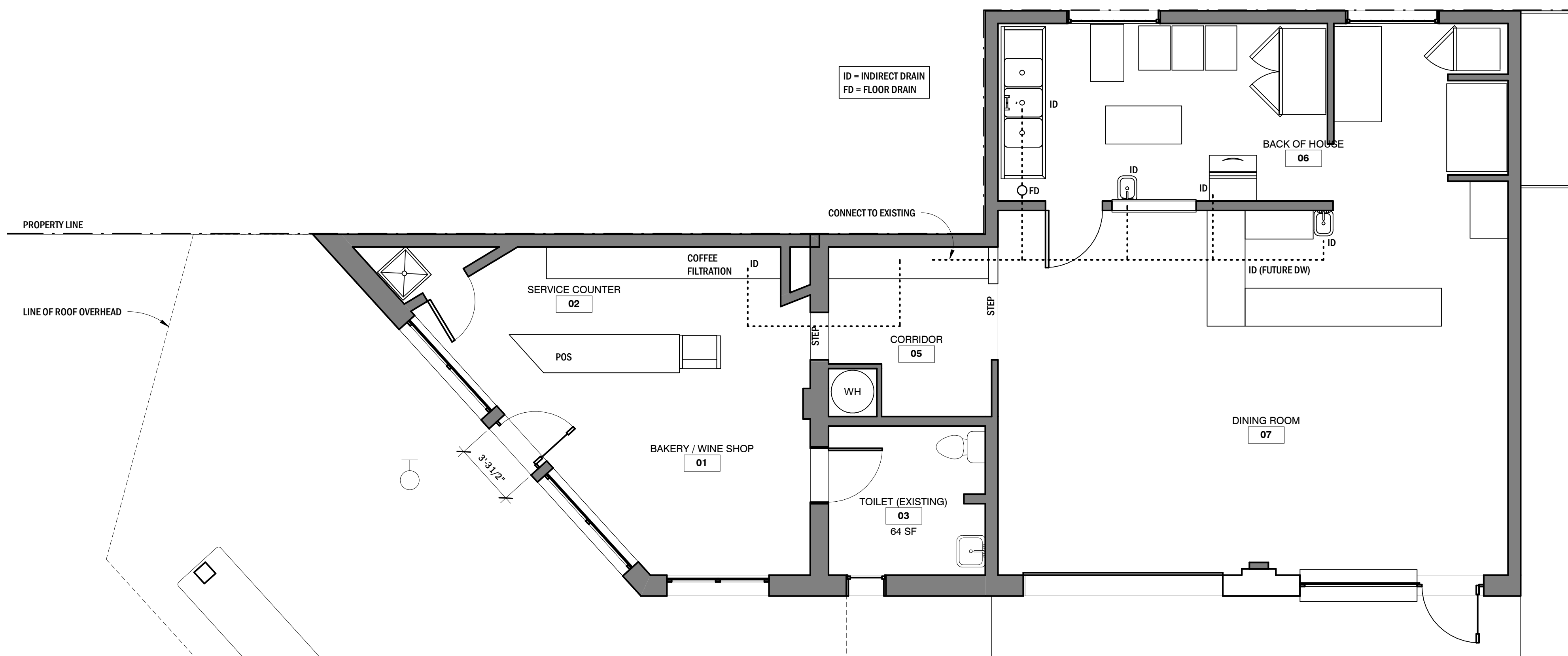
Drawn by JD
Checked by JD

CODE PLANS & FOG PLAN

- ☐ (none)
- ☐ Assembly - Unconcentrated (tables and chairs)
- ☐ Kitchens, commercial



2 CODE PLAN
1/4" = 1'-0" @ 22"x34", HALF SCALE @ 11"x17"



1 FOG PLAN
1/4" = 1'-0" @ 22"x34", HALF SCALE @ 11"x17"

OCCUPANT LOAD CALCULATIONS







NUMBER	NAME	AREA	Occupancy	Occupant Load Factor	Occupancy Gross or Net	Occupant Load
01	BAKERY / WINE SHOP	168 SF	M	30 SF	Net	6
02	SERVICE COUNTER	97 SF	M	30 SF	Gross	3
03	TOLLET (EXISTING)	64 SF	A2	15 SF	Net	4
05	CORRIDOR	70 SF	A2	15 SF	Net	5
06	BACK OF HOUSE	324 SF	A2	200 SF	Gross	2
07	DINING ROOM	440 SF	A2	15 SF	Net	29
Total Occupants		1164 SF				49

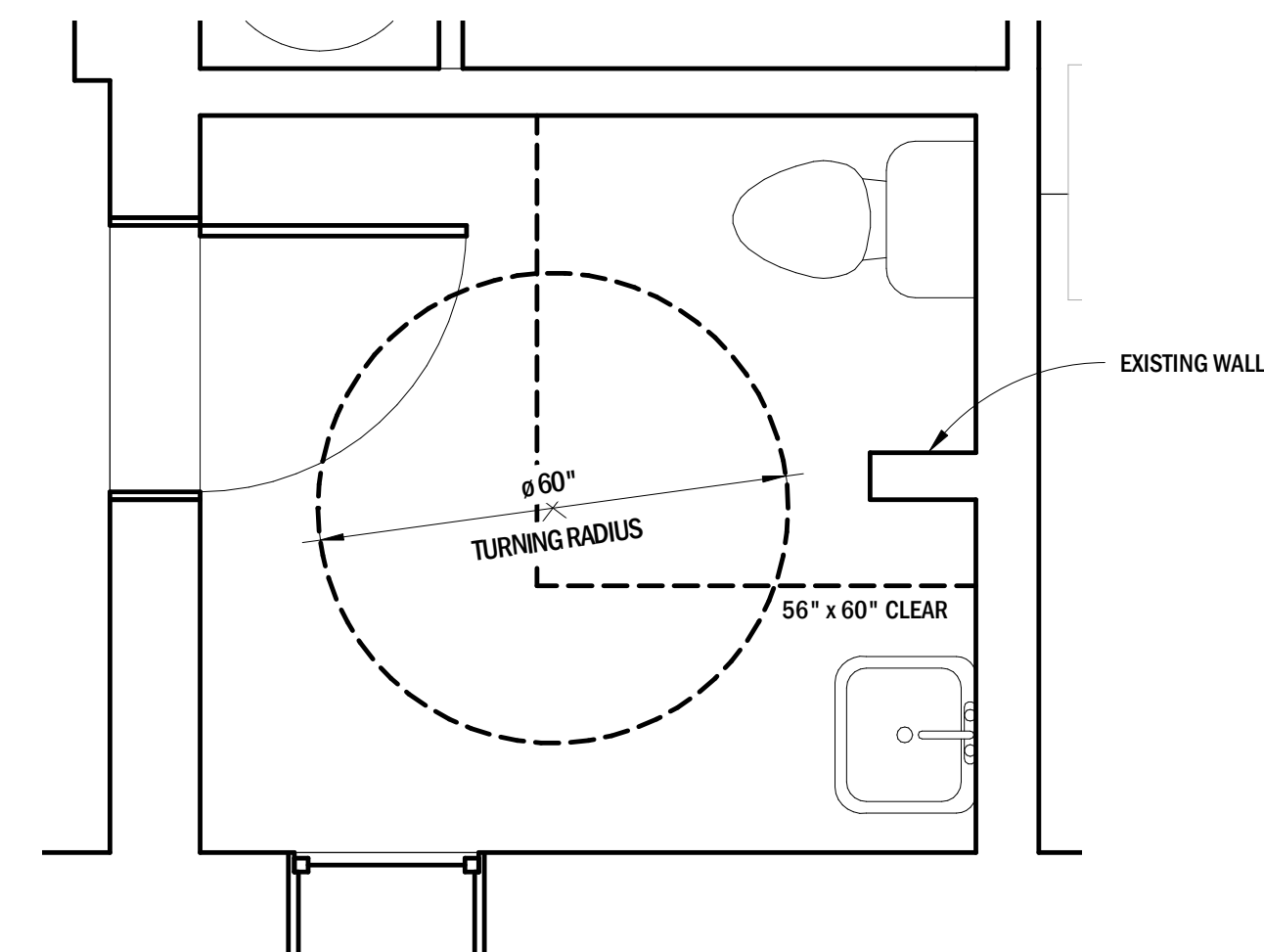
PLUMBING CALCULATIONS

TOTAL OCCUPANTS: 48 (24 MALE, 24 FEMALE);
(INCLUDES OUTDOOR SEATING) verify
REQUIRED RESTROOMS: 2

PROVIDED: 1 (SEE VRC)

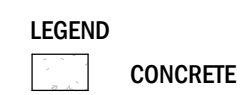
LEGEND

- | | | | |
|---|--|---|------------------|
|  | NEW WALL |  | EXIT ACCESS PATH |
|  | EXISTING WALL |  | 2HR WALL |
|  | PORTABLE FIRE
EXTINGUISHER AND 1 HR
RATED RECESSED CABINET,
MIN 2A-10BC RATING. |  | 1/2 HR WALL |



3 ENLARGED PLAN - TOILET
1/2" = 1'-0" @ 22"x34", HALF SCALE @ 11"x17"

SITE PLAN

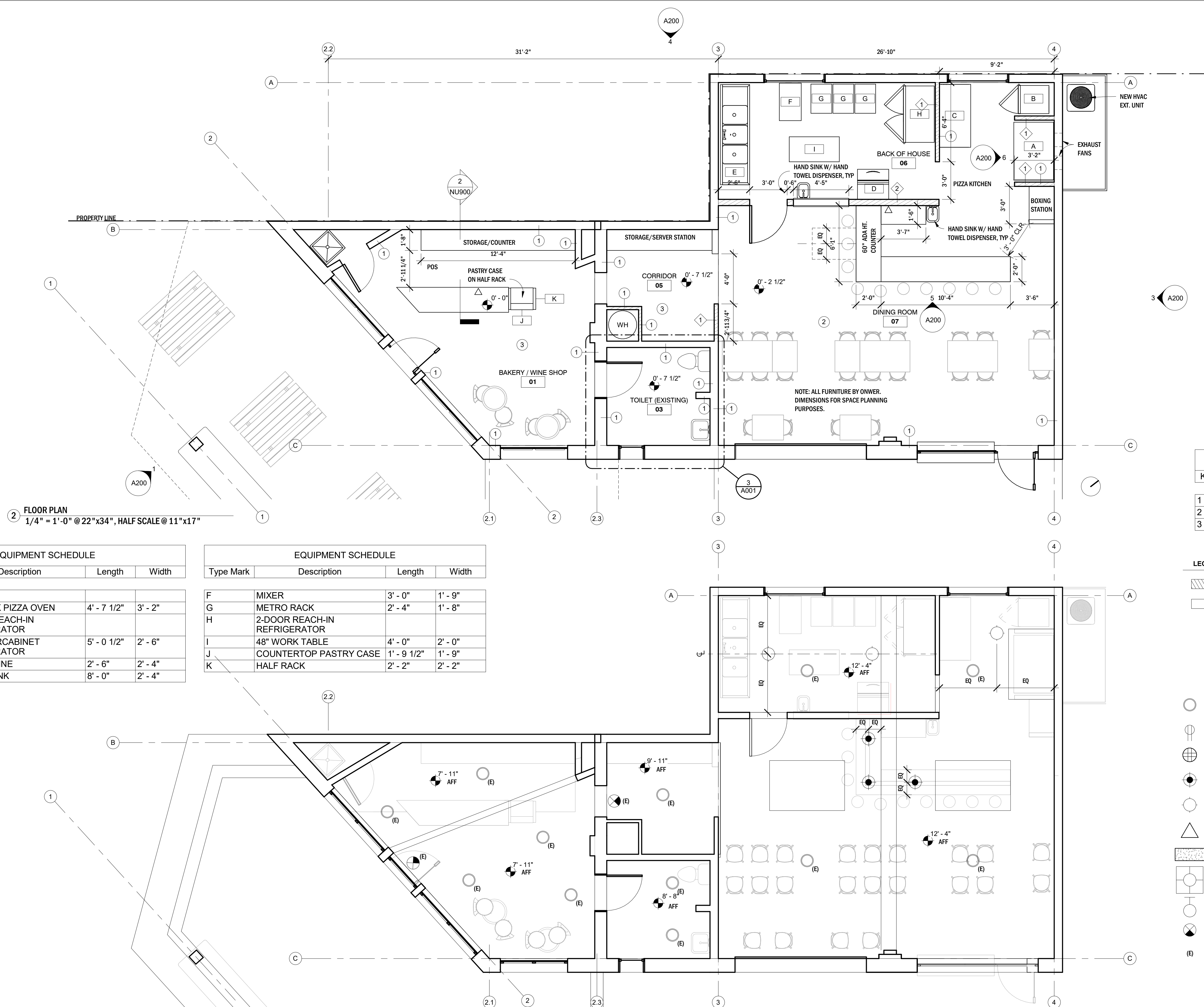


PARKING AND LOADING

SEC. 30-960.3.(4)

REQUIRED SPACES: 1 PER 300 SF
1164 SF / 300 SF = 3.88 SPACES

PROVIDED: 4 SPACES

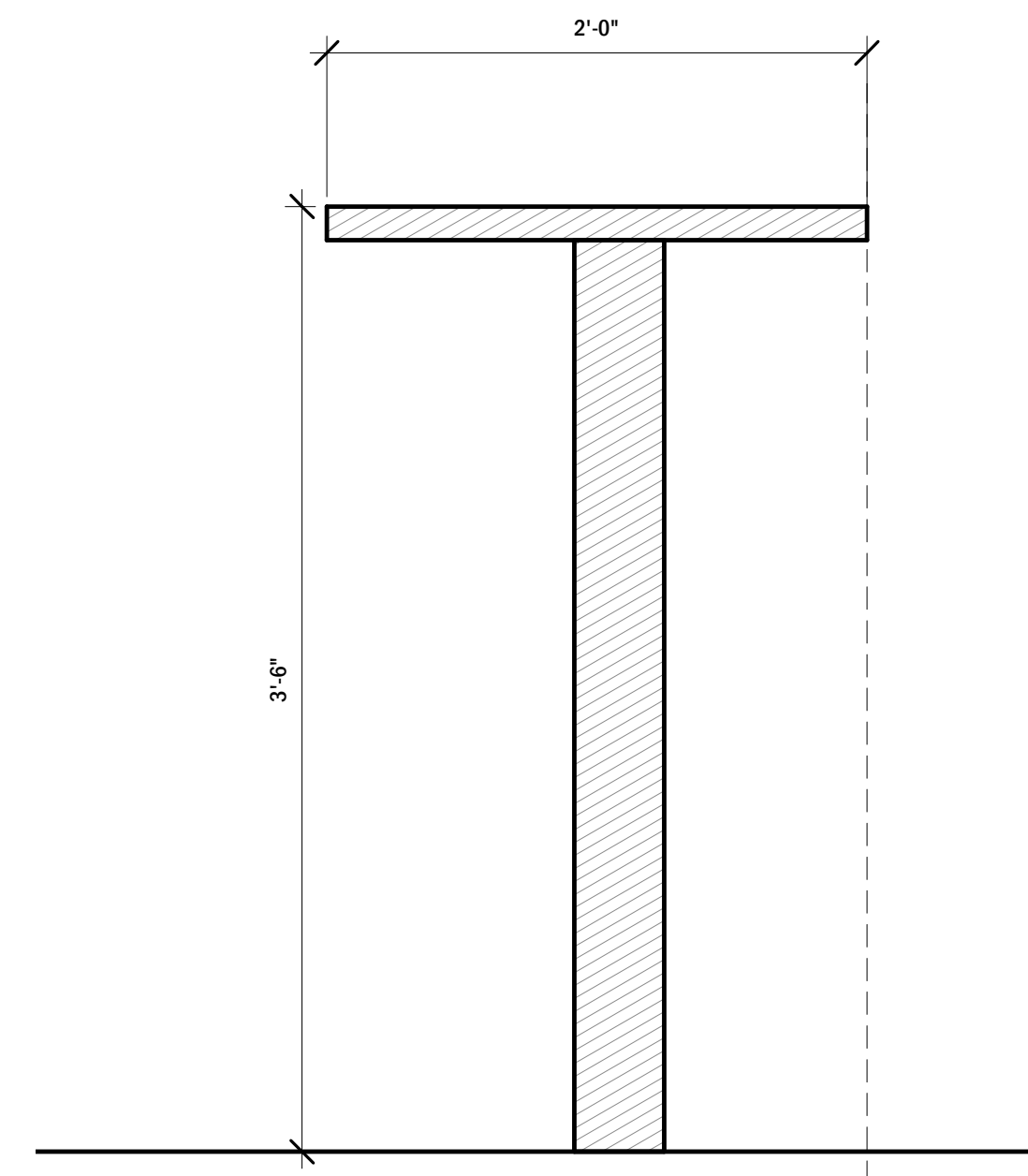
[illegible]

2 FLOOR PLAN
1/4" = 1'-0" @ 22"x34", HALF SCALE @ 11"x17"

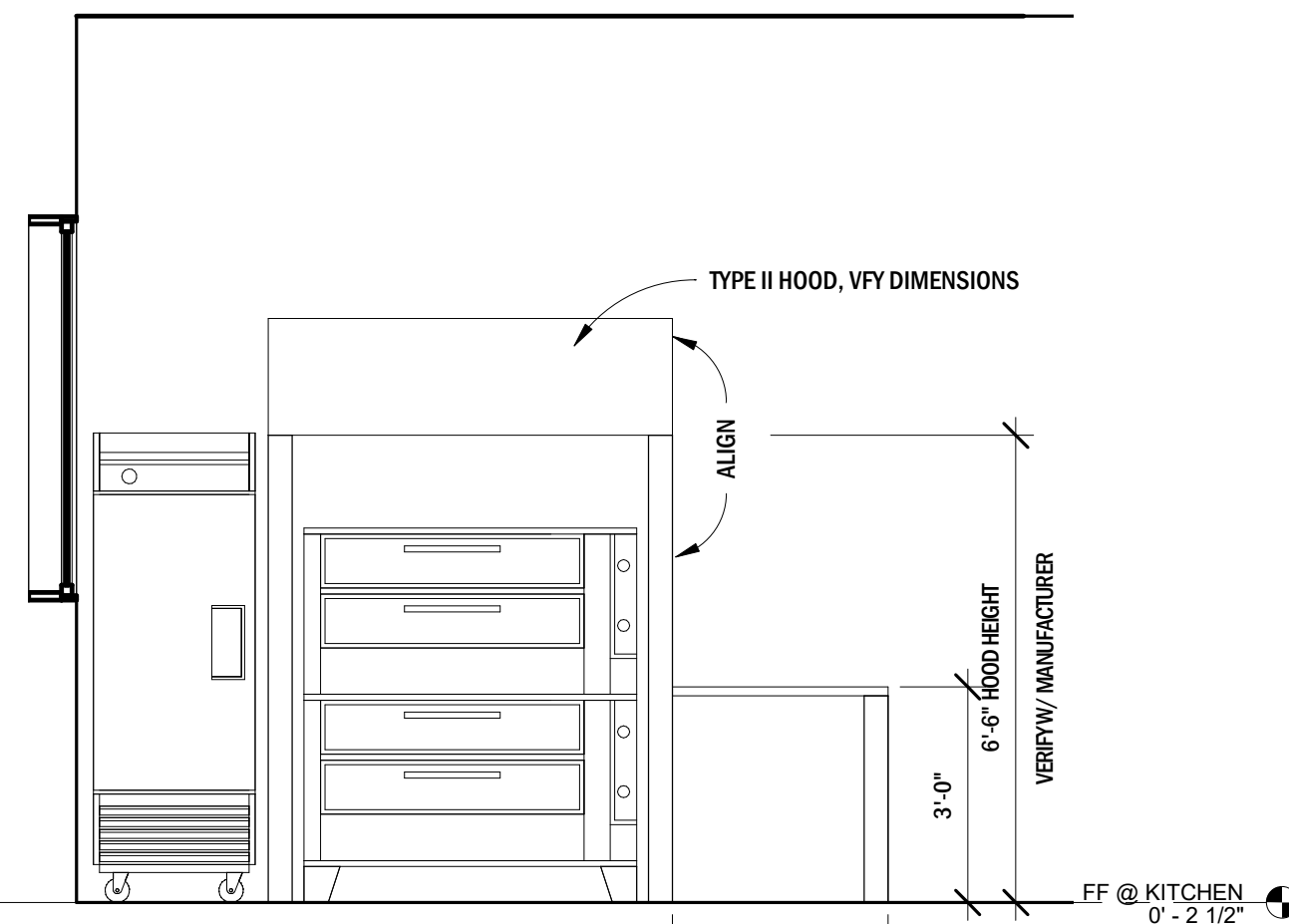
EQUIPMENT SCHEDULE			
Type Mark	Description	Length	Width
A	GAS DECK PIZZA OVEN	4' - 7 1/2"	3' - 2"
B	1-DOOR REACH-IN REFRIGERATOR		
C	60" UNDERCABINET REFRIGERATOR	5' - 0 1/2"	2' - 6"
D	ICE MACHINE	2' - 6"	2' - 4"
E	TRIPLE SINK	8' - 0"	2' - 4"

EQUIPMENT SCHEDULE			
Type Mark	Description	Length	Width
F	MIXER	3' - 0"	1' - 9"
G	METRO RACK	2' - 4"	1' - 8"
H	2-DOOR REACH-IN REFRIGERATOR		
J	48" WORK TABLE	4' - 0"	2' - 0"
I	COUNTERTOP PASTRY CASE	1' - 9 1/2"	1' - 9"
K	HALF RACK	2' - 2"	2' - 2"

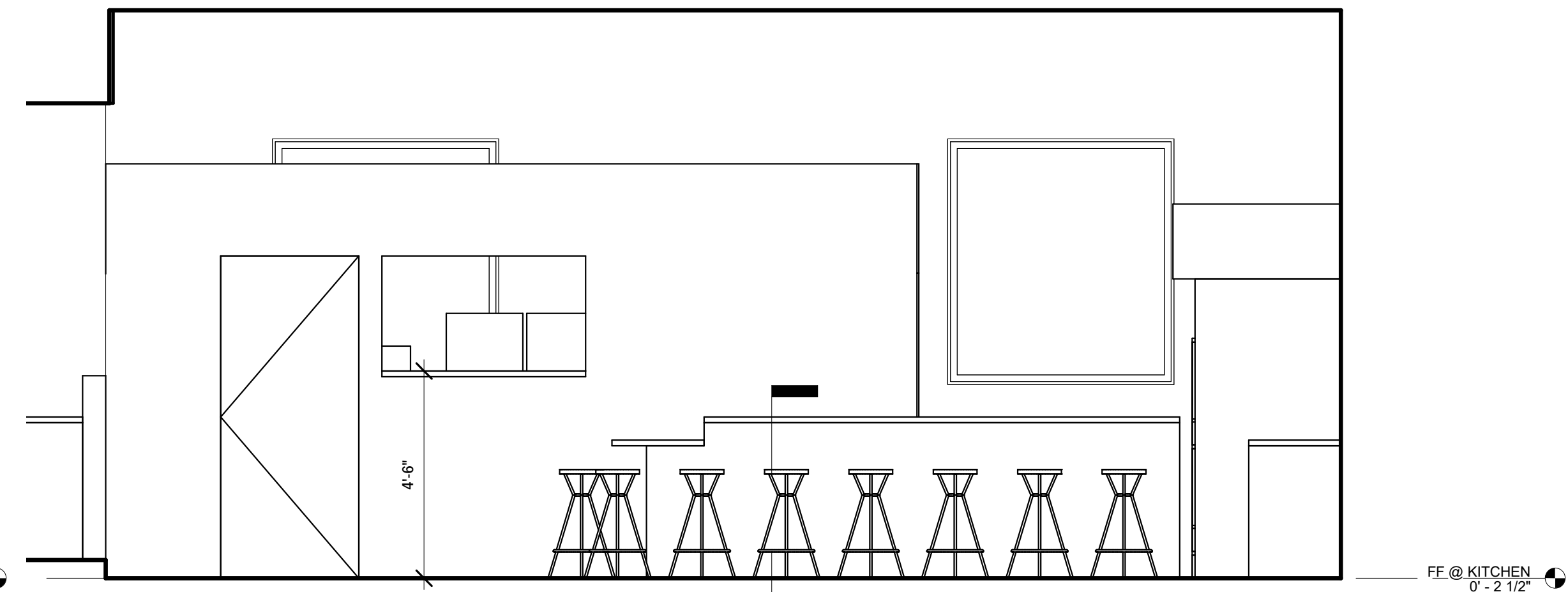
1 REFLECTED CEILING PLAN
1/4" = 1'-0" @ 22"x34", HALF SCALE @ 11"x17"

[illegible]

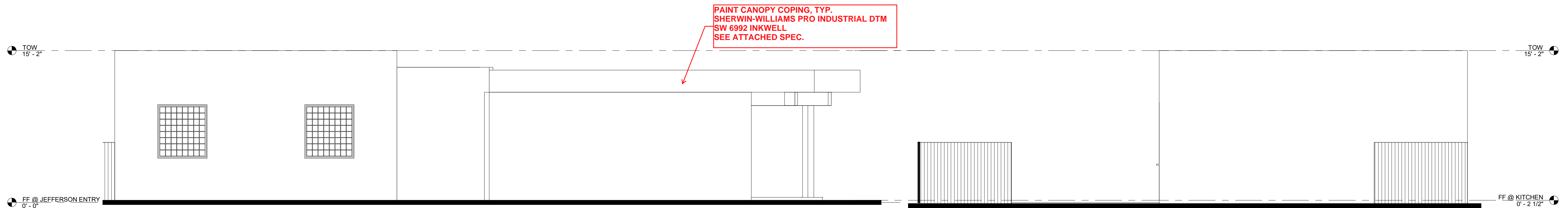
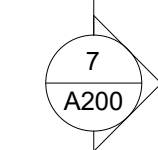
7 SECTION THROUGH BAR
1 1/2" = 1'-0" @ 22"x34", HALF SCALE @ 11"x17"



6 ELEVATION @ PIZZA OVEN & HOOD
3/8" = 1'-0" @ 22"x34", HALF SCALE @ 11"x17"

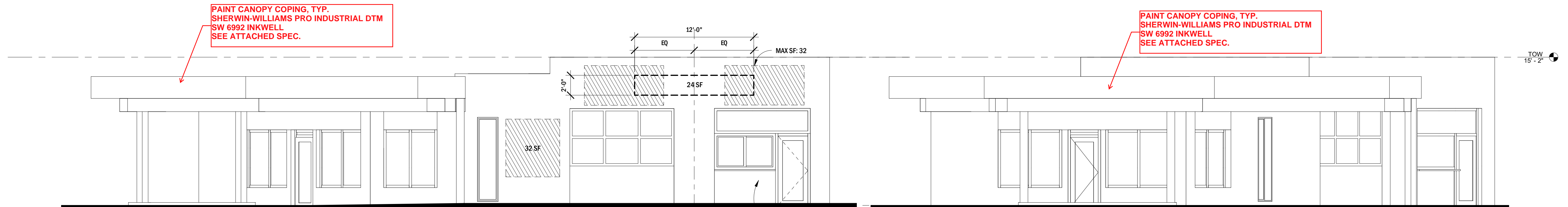


5 ELEVATION AT BAR
3/8" = 1'-0" @ 22"x34", HALF SCALE @ 11"x17"



4 NORTHWEST ELEVATION
3/16" = 1'-0" @ 22"x34", HALF SCALE @ 11"x17"

3 **NORTHEAST ELEVATION**
3/16" = 1'-0" @ 22"x34", HALF SCALE @ 11"x17"

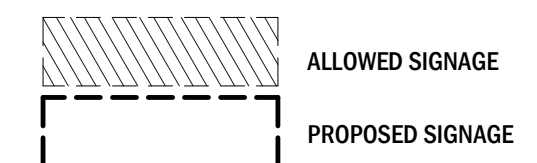


2 SOUTHEAST ELEVATION - 24TH ST.
3/16" = 1'-0" @ 22"x34", HALF SCALE @ 11"x17"

① SOUTHWEST ELEVATION - JEFFERSON AVE.
3/16" = 1'-0" @ 22"x34", HALF SCALE @ 11"x17"

SIGNAGE CALCULATIONS

SITE FRONTAGE = 58' + 74' = 132' (SEE A100)
MAX SIGNAGE SF = 100 SF
PROPOSED SIGNAGE = 24 SF





2314 JEFFERSON AVE.
RICHMOND, VA 23223
ASHLEY PATINO

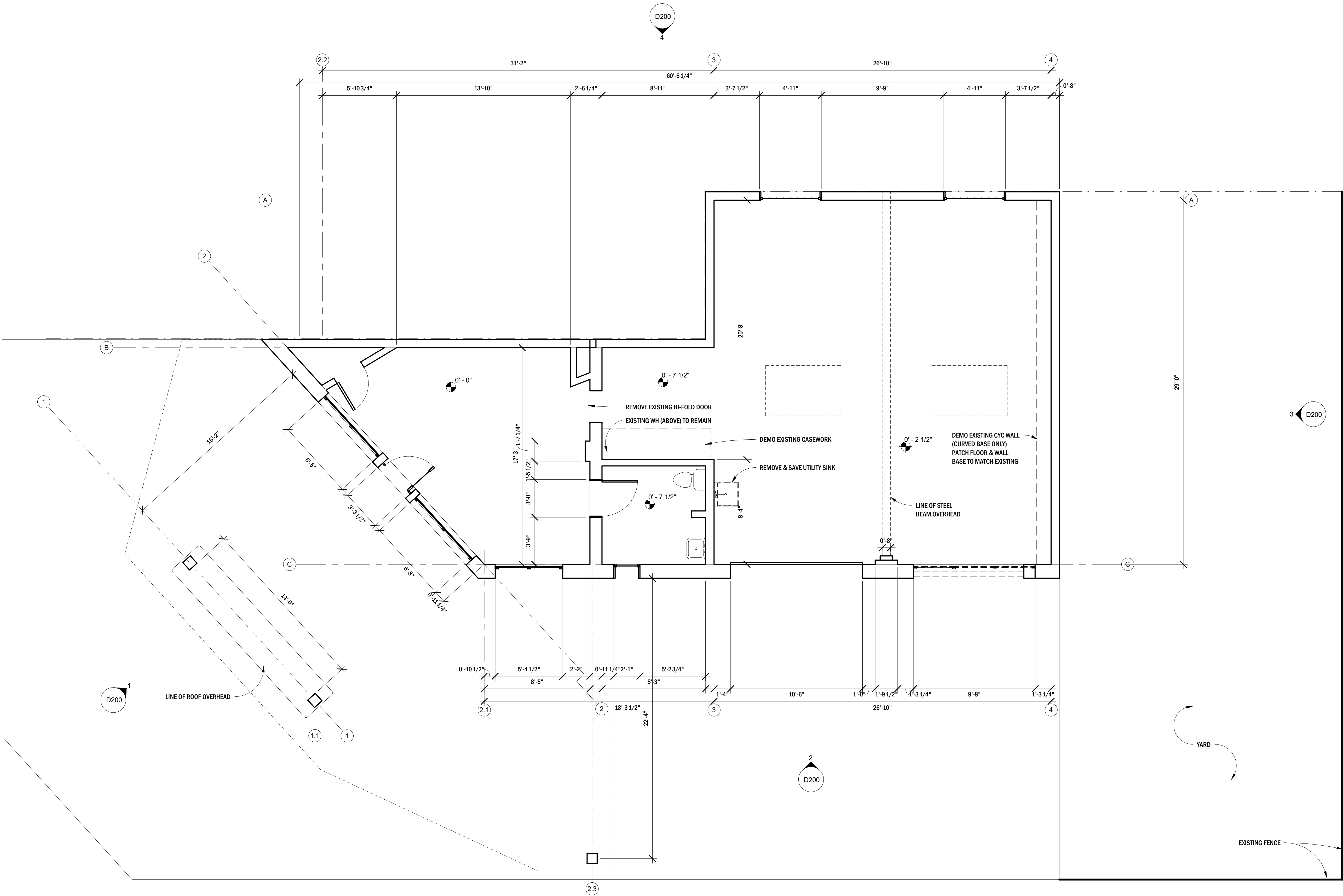
Issue: PERMIT APPLICATION
Issue Date: 6/10/20
Print Date: 6/11/2020 11:38:50 AM

Drawn by JD
Checked by

[illegible]

DEMO PLAN

D 100



1 DEMOLITION PLAN
1/4" = 1'-0" @ 22"x34", HALF SCALE @ 11"x17"



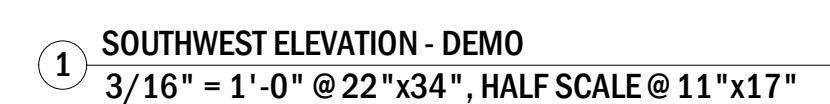
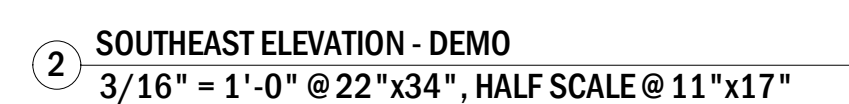
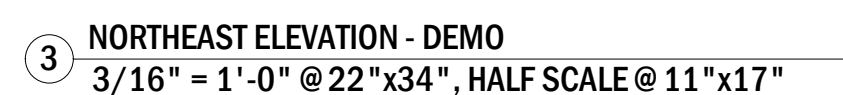
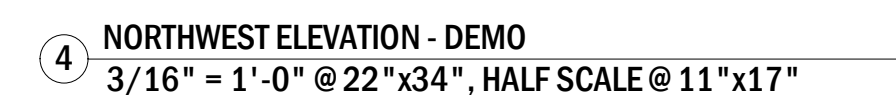
Issue: PERMIT APPLICATION
Issue Date: 6/10/20
Print Date: 6/11/2020 11:38:51 AM

Drawn by	Author
Checked by	Checker

[illegible]

DEMO - EXTERIOR ELEVATIONS

D200



SW 6992
Inkwell

251-C4

SW 6258
Unicorn Black

Features

- Trifab™ 400 is 4" (101.6) deep with a 1-3/4" (44.5) sightline
- Center plane glass applications
- Flush glazed from either the inside or outside
- Screw Spline, Shear Block or Stick fabrication
- 1/8" (3.2), 1/4" (6.4), or 3/8" (9.7) infill options
- Permanodic™ anodized finishes in seven choices
- Painted finishes in standard and custom choices

Product Applications

- Storefront, Ribbon Window or Punched Openings
- Single-span
- Integrated entrance framing allowing Kawneer standard entrances or other specialty entrances to be incorporated
- Kawneer windows or GLASSvent™ Windows for Storefront Framing are easily incorporated

For specific product applications,
consult your Kawneer representative.

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© Kawneer Company, Inc., 2010

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© Kawneer Company, Inc., 2010

PICTORIAL VIEWS..... 4-6

BASIC FRAMING MEMBERS 7,8

ENTRANCE FRAMING..... 9,10

MISCELLANEOUS FRAMING.....11

GLASSvent™ FOR STOREFRONT FRAMING 12

WINDLOAD CHARTS..... 13-19

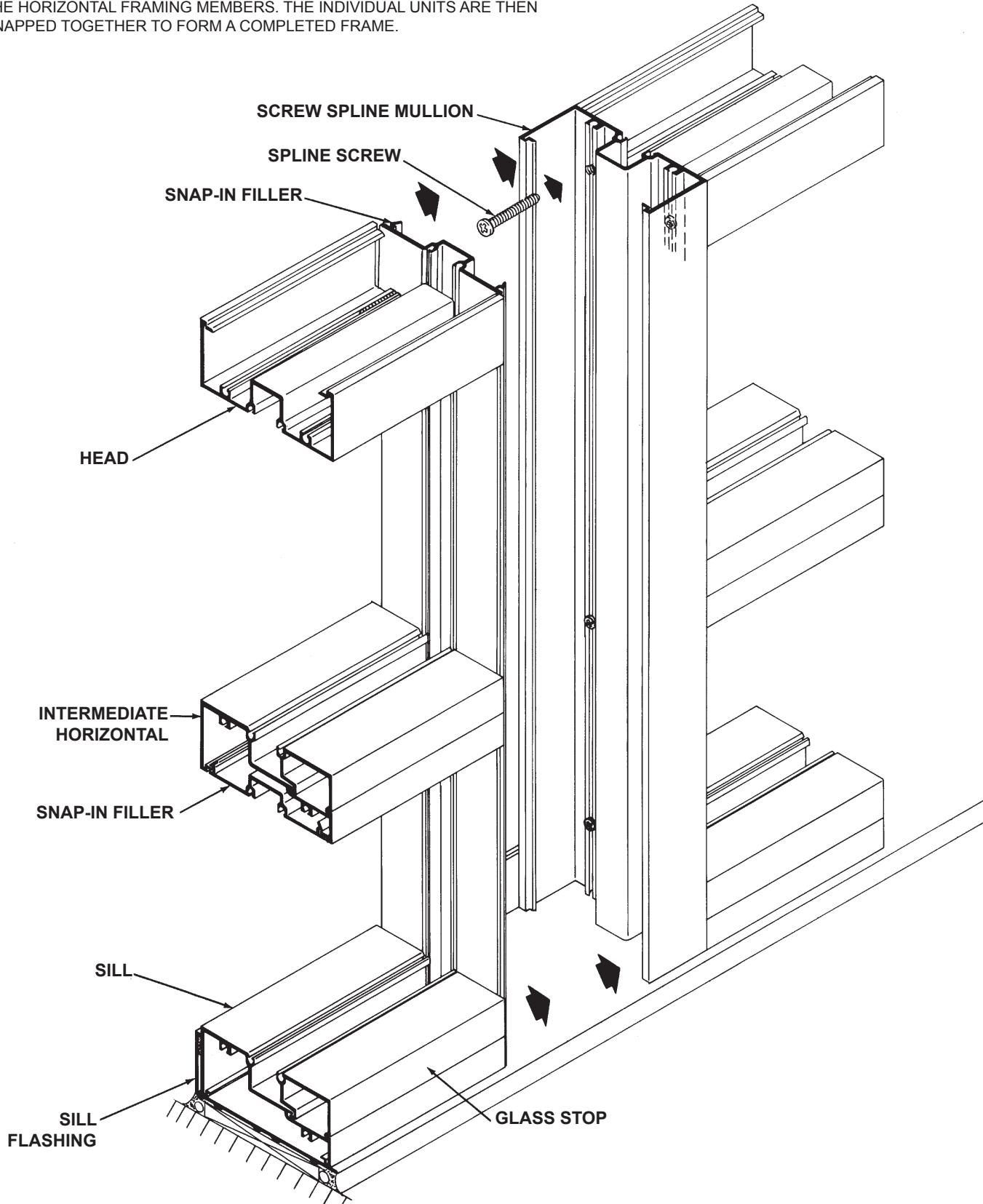
DEADLOAD CHARTS 20

Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses () are millimeters unless otherwise noted.

The following metric (SI) units are found in these details:

- m – meter
- cm – centimeter
- mm – millimeter
- s – second
- Pa – pascal
- MPa – megapascal

THE SPLIT VERTICAL IN THE SCREW SPLINE SYSTEM ALLOWS A FRAME TO BE INSTALLED FROM UNITIZED ASSEMBLIES. SCREWS ARE DRIVEN THROUGH THE BACK OF THE VERTICALS INTO SPLINES EXTRUDED IN THE HORIZONTAL FRAMING MEMBERS. THE INDIVIDUAL UNITS ARE THEN SNAPPED TOGETHER TO FORM A COMPLETED FRAME.

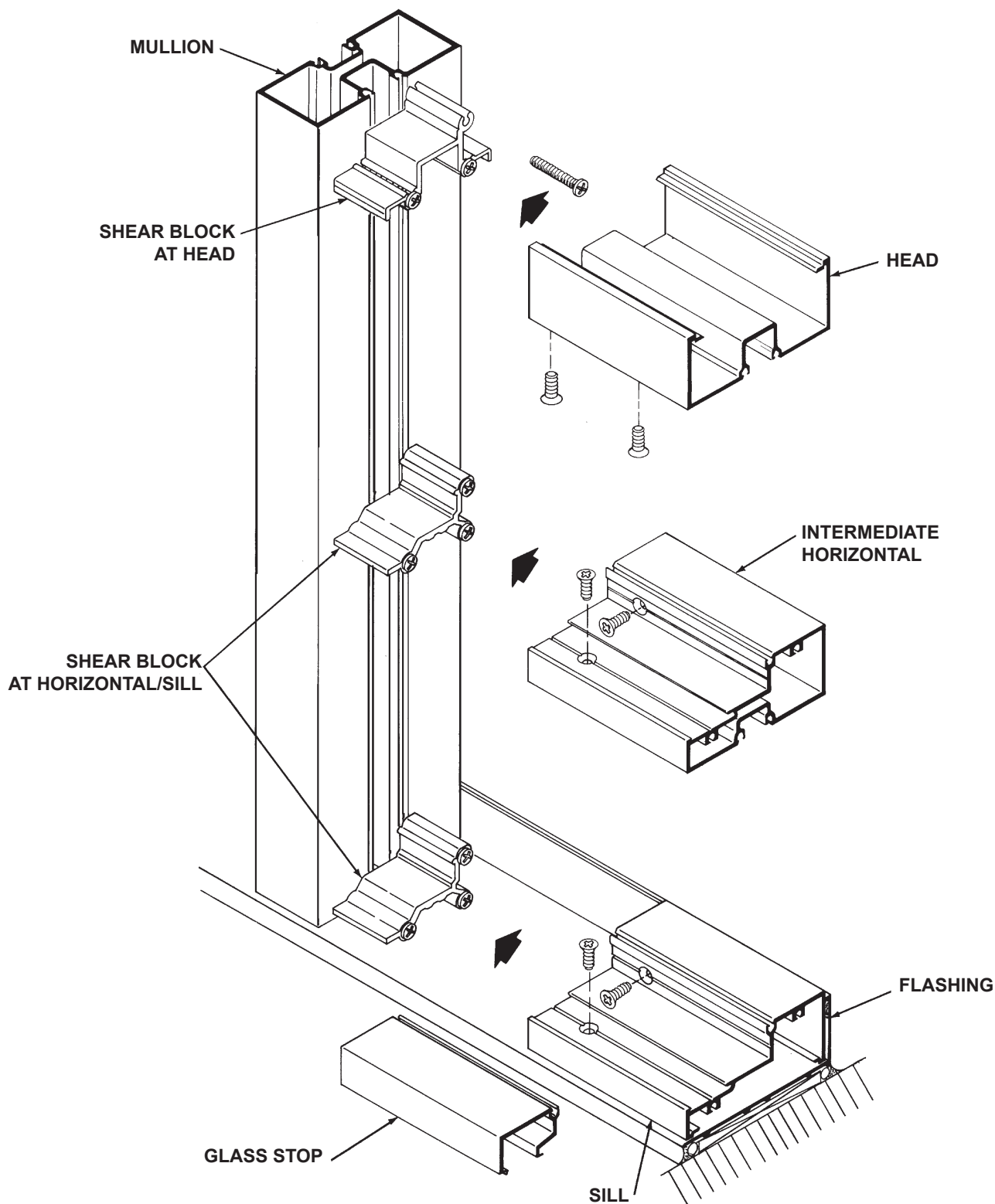


Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© Kawneer Company, Inc., 2010

THE SHEAR BLOCK SYSTEM OF FABRICATION ALLOWS A FRAME TO BE PRE ASSEMBLED AND INSTALLED AS A SINGLE UNIT. HORIZONTALS ARE ATTACHED TO THE VERTICALS WITH SHEAR BLOCKS.



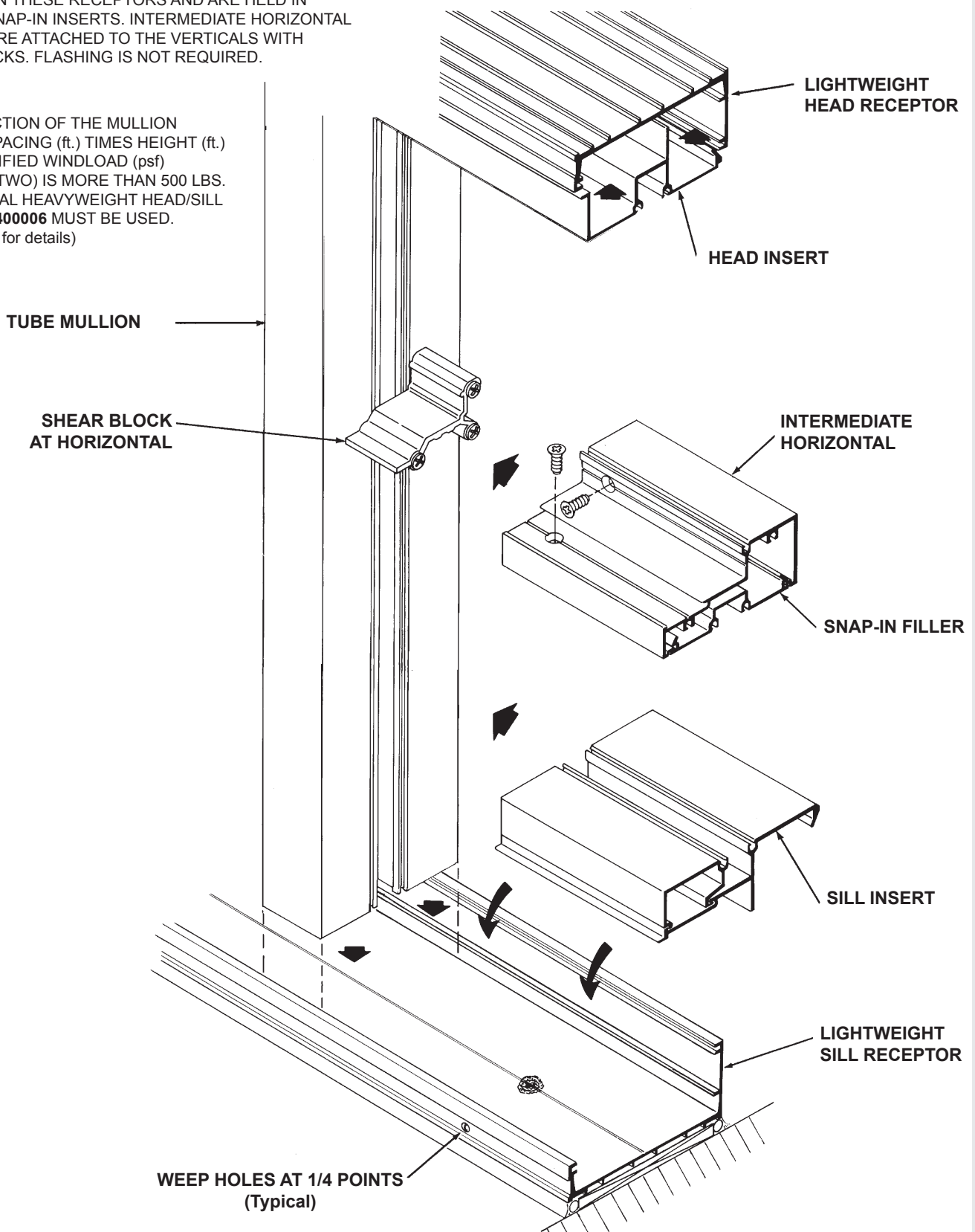
Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© Kawneer Company, Inc., 2010

THE STICK SYSTEM OF FABRICATION ALLOWS ON-SITE ASSEMBLY. HEAD AND SILL RECEPTORS ARE FASTENED TO THE SURROUND. VERTICAL MULLIONS ARE THEN INSTALLED IN THESE RECEPTORS AND ARE HELD IN PLACE BY SNAP-IN INSERTS. INTERMEDIATE HORIZONTAL MEMBERS ARE ATTACHED TO THE VERTICALS WITH SHEAR BLOCKS. FLASHING IS NOT REQUIRED.

NOTE:

IF END REACTION OF THE MULLION
(MULLION SPACING (ft.) TIMES HEIGHT (ft.)
TIMES SPECIFIED WINDLOAD (psf)
DIVIDED BY TWO) IS MORE THAN 500 LBS.
THE OPTIONAL HEAVYWEIGHT HEAD/SILL
RECEPTOR **400006** MUST BE USED.
(See Page 11 for details)

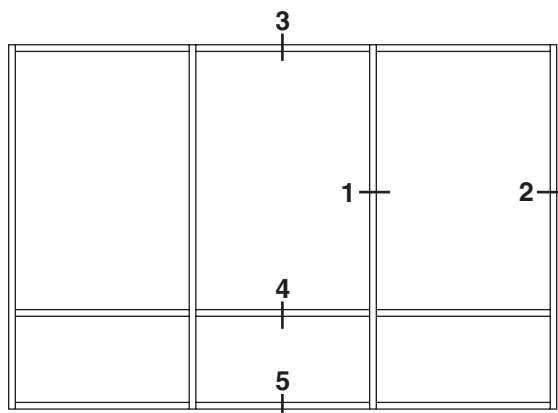


Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

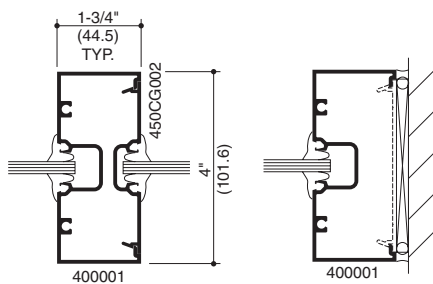
© Kawneer Company, Inc., 2010

Additional information and CAD details are available at www.kawneer.com



ELEVATION IS NUMBER KEYED TO DETAILS

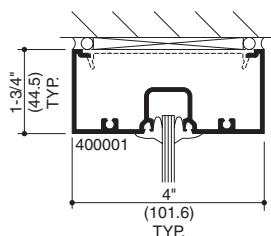
SCREW SPLINE SYSTEM



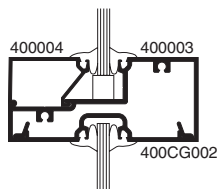
1
VERTICAL
MULLION

2
JAMB

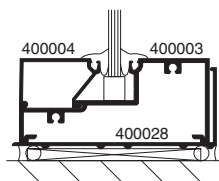
3
HEAD



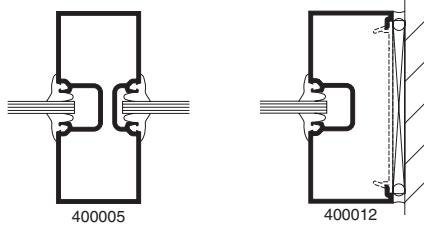
4
INTERMEDIATE
HORIZONTAL



5
SILL



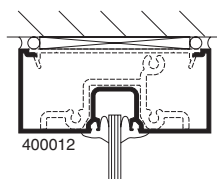
SHEAR BLOCK SYSTEM



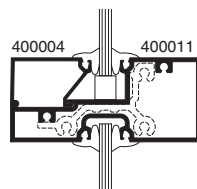
1
VERTICAL
MULLION

2
JAMB

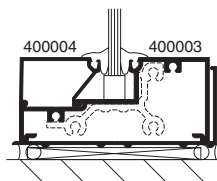
3
HEAD



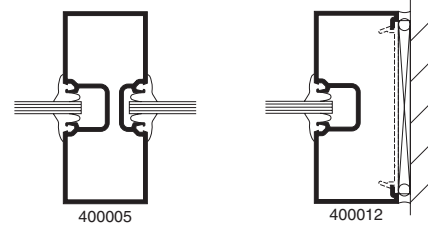
4
INTERMEDIATE
HORIZONTAL



5
SILL



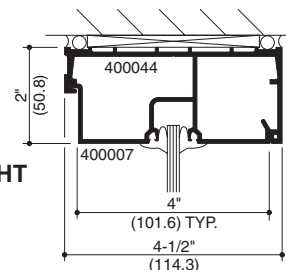
STICK SYSTEM



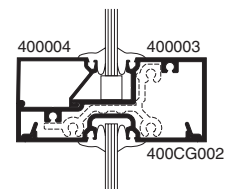
1
VERTICAL
MULLION

2
JAMB

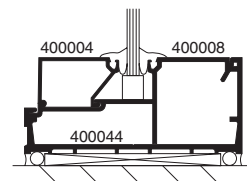
3
LIGHTWEIGHT
HEAD



4
INTERMEDIATE
HORIZONTAL



5
LIGHTWEIGHT
SILL

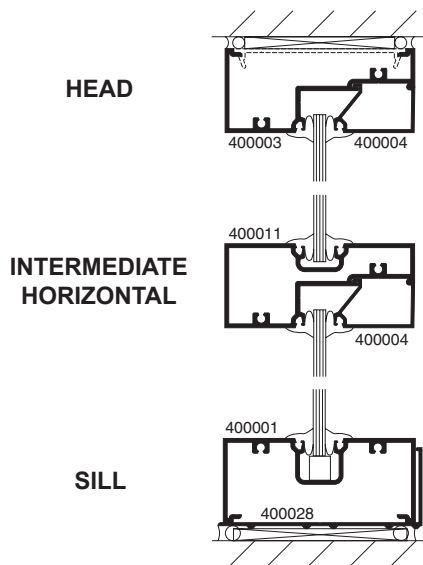


Additional information and CAD details are available at www.kawneer.com

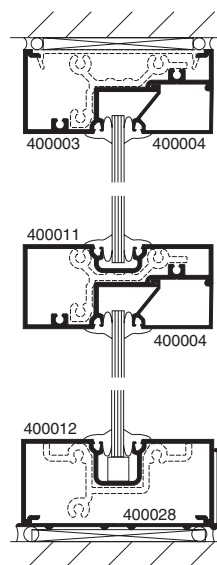
INSIDE GLAZING MEMBERS

TRIFAB 400 CAN BE INSTALLED FOR INSIDE GLAZING SIMPLY BY REVERSING THE SYSTEM SUCH THAT THE REMOVABLE GLASS STOPS ARE LOCATED AT THE HEAD AND ON THE INTERIOR SIDE.

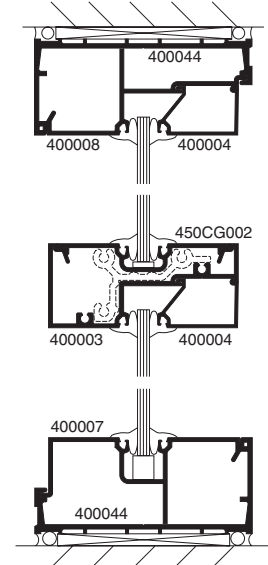
SCREW SPLINE SYSTEM



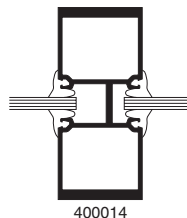
SHEAR BLOCK SYSTEM



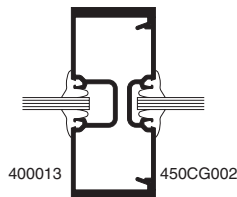
STICK SYSTEM



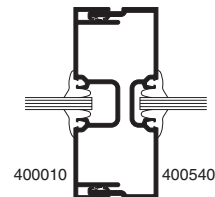
ALTERNATE MULLION & SIDELITE BASE MEMBERS



**HEAVY
TUBE
MULLION**

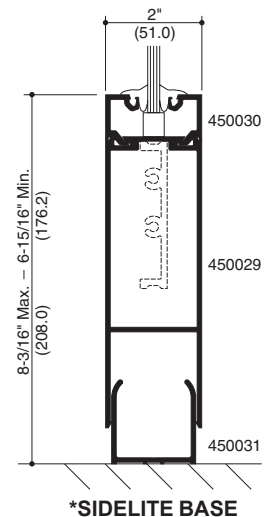
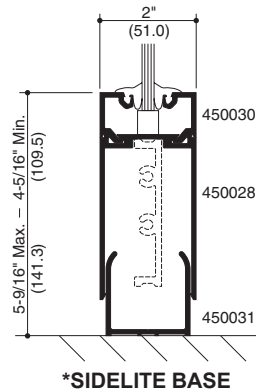
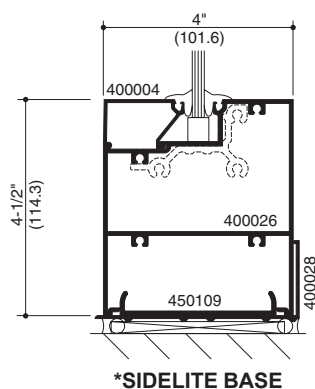


**HEAVY
SCREW SPLINE
MULLION**



**EXPANSION
TUBE MULLION**

* SIDELITE BASES SHOWN FOR USE WITH SCREW SPLINE & SHEAR BLOCK SYSTEMS ONLY.



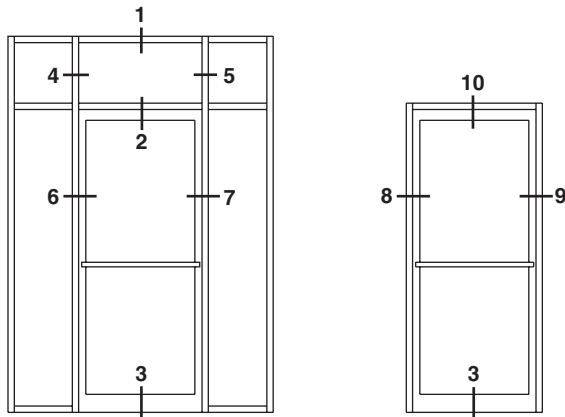
Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© Kawneer Company, Inc., 2010

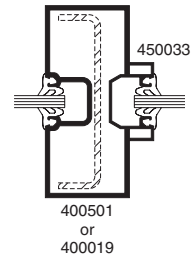
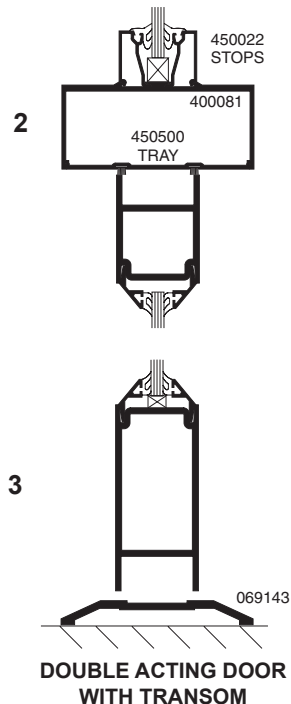
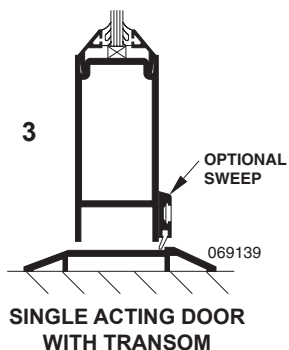
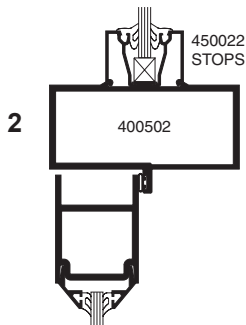
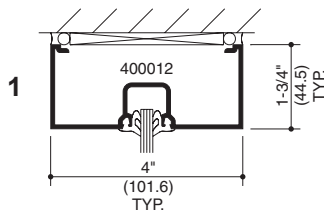
Additional information and CAD details are available at www.kawneer.com

TRIFAB™ 400 FRAMING INCORPORATING KAWNEER "190" DOORS.

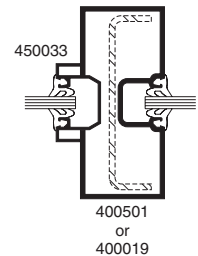
NOTE: OTHER TYPES OF KAWNEER DOORS MAY BE USED WITH THIS FRAMING SYSTEM.
SEE ENTRANCE DETAILS FOR ADDITIONAL INFORMATION.



ELEVATIONS ARE NUMBER KEYED TO DETAILS

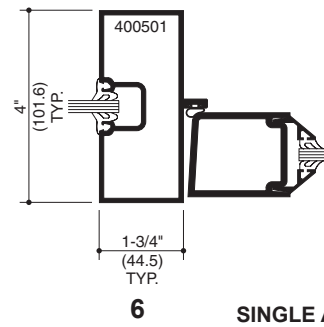


4 TRANSOM AREA



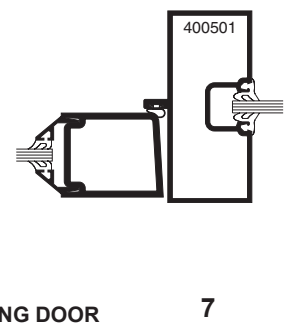
5

Transom area for both double and single acting doors with glass surround. Jambs above transom bar are routed out to accept glass holding Insert **450033** with or without steel reinforcing. (**400110** Steel Reinforcing shown dashed)

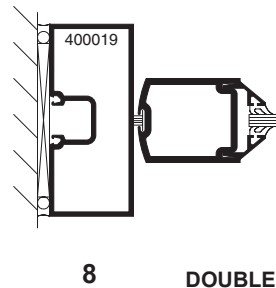


6

SINGLE ACTING DOOR

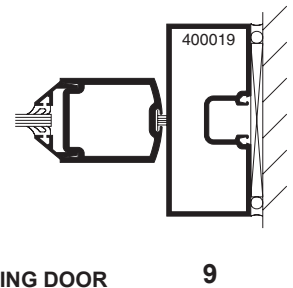


7

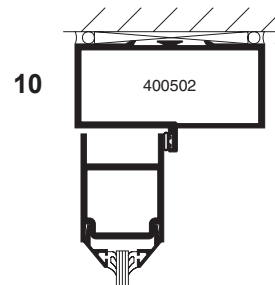


8

DOUBLE ACTING DOOR

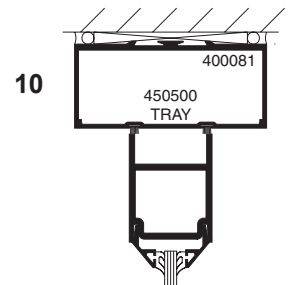


9



10

SINGLE ACTING DOOR
WITHOUT TRANSOM



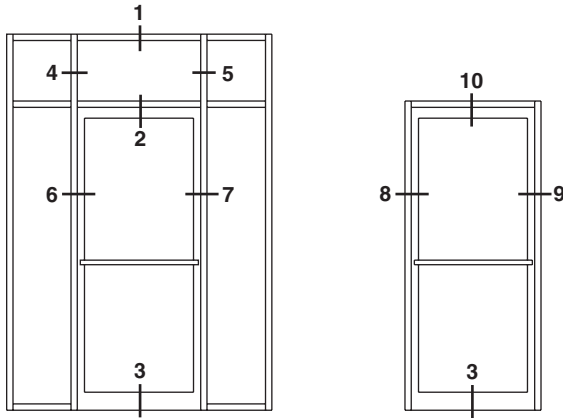
10

DOUBLE ACTING DOOR
WITHOUT TRANSOM

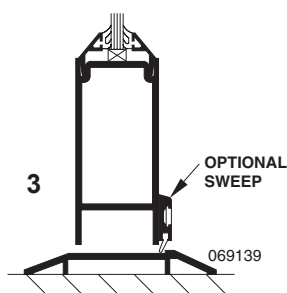
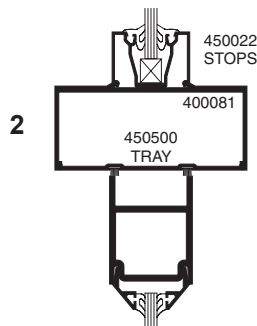
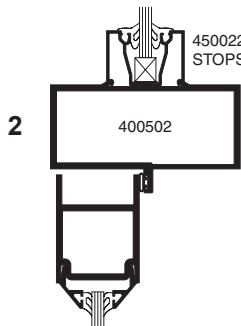
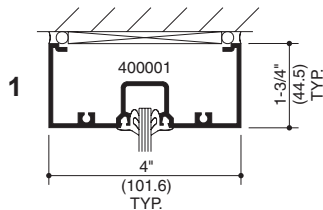
Additional information and CAD details are available at www.kawneer.com

OPEN BACK FRAMING INCORPORATING KAWNEER "190" DOORS

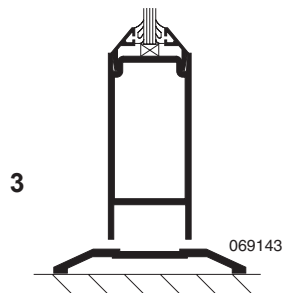
NOTE: OTHER TYPES OF KAWNEER DOORS MAY BE USED WITH THIS FRAMING SYSTEM.
SEE ENTRANCE DETAILS FOR ADDITIONAL INFORMATION.



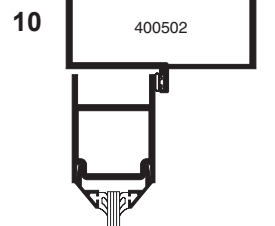
ELEVATIONS ARE NUMBER KEYED TO DETAILS



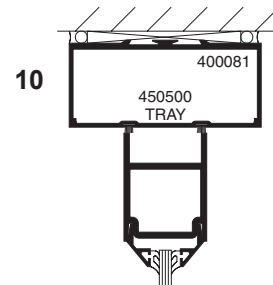
SINGLE ACTING DOOR
WITH TRANSOM



DOUBLE ACTING DOOR
WITH TRANSOM

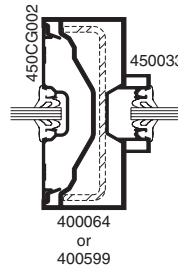


SINGLE ACTING DOOR
WITHOUT TRANSOM



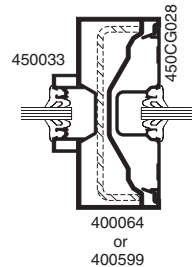
DOUBLE ACTING DOOR
WITHOUT TRANSOM

Transom area for both double and single acting doors with glass surround. Jamb above transom bar are routed out to accept glass holding Insert **450033** with or without steel reinforcing.
(**400110** Steel Reinforcing shown dashed)



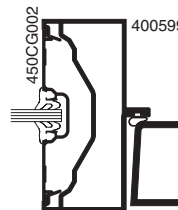
4

TRANSOM AREA



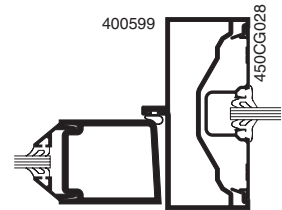
5

NOTE: Sidelite mullions must be orientated to provide at least one (1 MPa deep vertical pocket per lite to facilitate glazing.



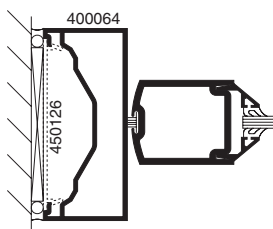
6

SINGLE ACTING DOOR



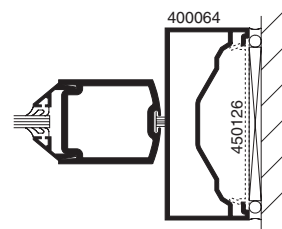
7

Flat Filler **450126** (3" Long) used at perimeter fastener locations or Pocket Filler **450CG002**, **450CG028** for sidelites.



8

DOUBLE ACTING DOOR

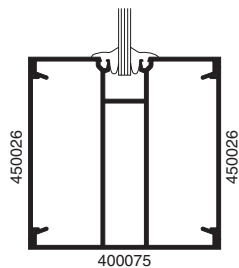


9

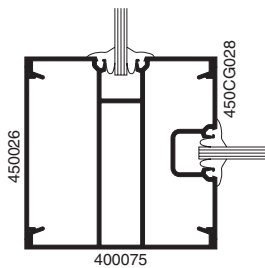
Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© Kawneer Company, Inc., 2010

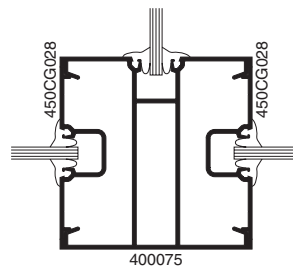
Additional information and CAD details are available at www.kawneer.com



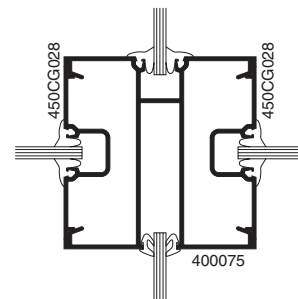
ONE POCKET CORNER



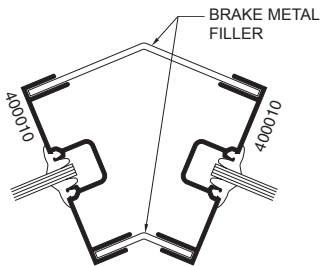
TWO POCKET CORNER



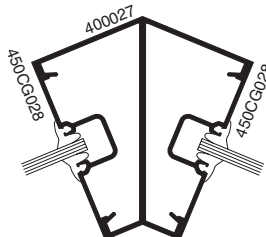
THREE POCKET CORNER



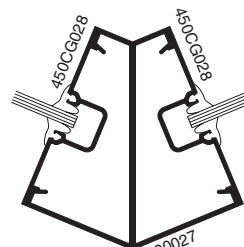
FOUR POCKET CORNER



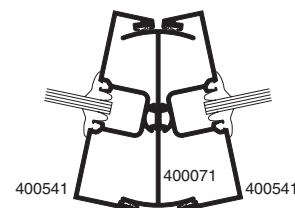
ADJUSTABLE
BRAKE METAL CORNER



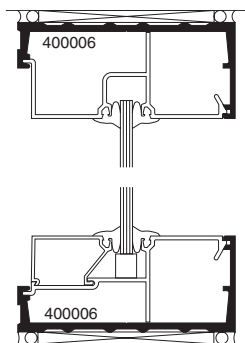
135° INSIDE CORNER



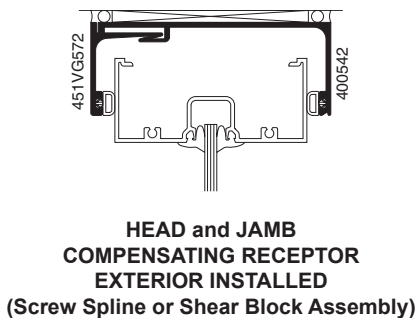
135° OUTSIDE CORNER



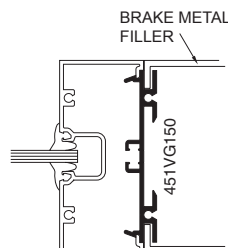
155° to 180°
PIVOT MULLION



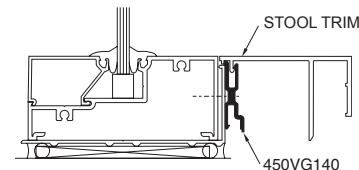
HEAVYWEIGHT
HEAD and SILL RECEPTOR
(Stick Assembly)



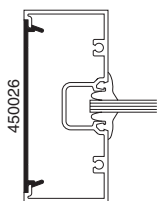
HEAD and JAMB
COMPENSATING RECEPTOR
EXTERIOR INSTALLED
(Screw Spine or Shear Block Assembly)



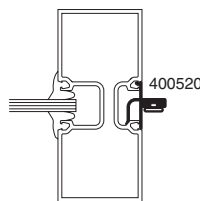
BRAKE METAL ADAPTOR
(Vertically/Horizontal)



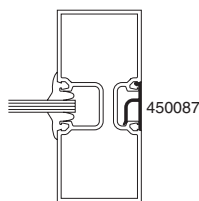
STOOL TRIM CLIP



PERIMETER
FILLER



SNAP-IN
DOOR STOP



SNAP-IN
FLUSH POCKET
FILLER



4" x 4" TUBE



1-3/4" x 4"
TUBE



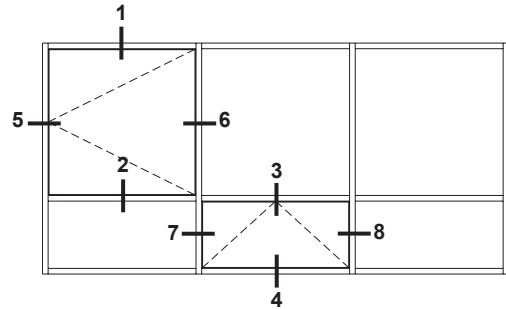
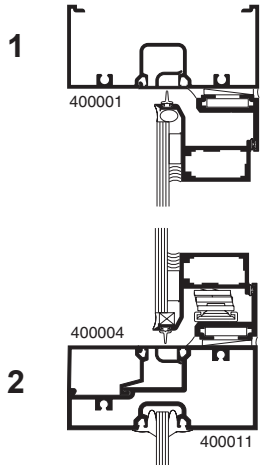
1-3/4" x 1-3/4"
TUBE

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© Kawneer Company, Inc., 2010

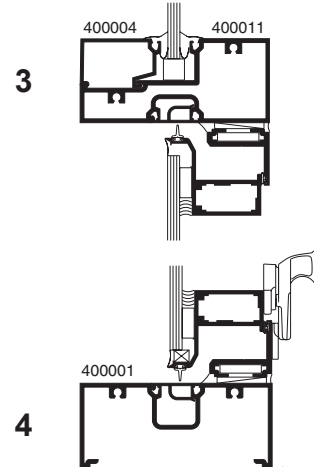
Additional information and CAD details are available at www.kawneer.com

OUTSWING CASEMENT VERTICAL SECTION

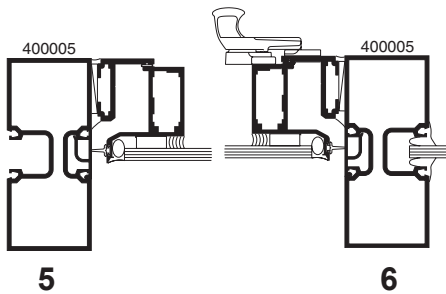


ELEVATION IS NUMBER KEYED TO DETAILS

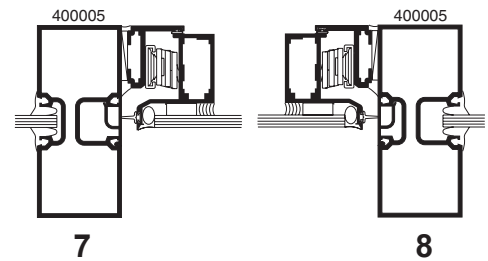
PROJECT-OUT VERTICAL SECTION



OUTSWING CASEMENT VERTICAL SECTION



PROJECT-OUT VERTICAL SECTION



Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© Kawneer Company, Inc., 2010

WIND LOAD CHARTS

Mullions are designed for deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13'-6" and L/240 +1/4" above 13'-6". These curves are for mullions WITH HORIZONTALS and are based on engineering calculations for stress and deflection. Allowable wind load stress for ALUMINUM 15,152 psi (104 MPa), STEEL 30,000 psi (207 MPa). Charted curves, in all cases are for the limiting value. Wind load charts contained herein are based upon nominal wind load utilized in allowable stress design. A conversion from Load Resistance Factor Design (LRFD) is provided. To convert ultimate wind loads to nominal loads, multiply ultimate wind loads by a factor of 0.6 per ASCE/SEI 7. A 4/3 increase in allowable stress has not been used to develop these curves. For special situations not covered by these curves, contact your Kawneer representative for additional information.

If the end reaction of the mullion [mullion spacing (ft.) times height (ft.) times specified wind load (psf) divided by two] is more than 500 lbs., the optional Mullion Anchors must be used. Consult Application Engineering. (*Mullion Anchor not used with Lightweight Receptor.*)

DEADLOAD CHARTS

Horizontal or deadload limitations are based upon 1/8" (3.2) maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1/4" (6.4) thick glass supported on two setting blocks at the loading points shown.

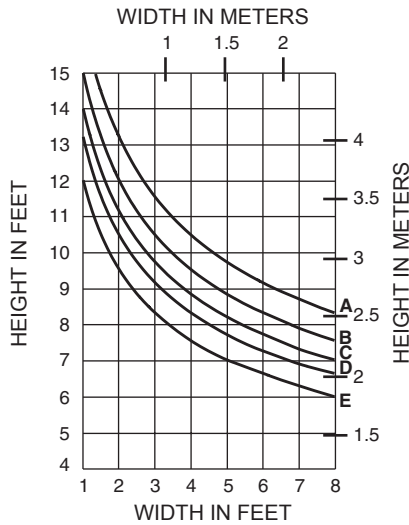
Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© Kawneer Company, Inc., 2010

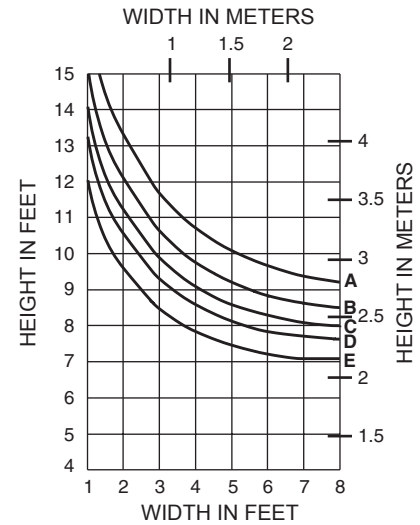
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	15 PSF (720)	25 PSF (1200)
B =	20 PSF (960)	33 PSF (1580)
C =	25 PSF (1200)	42 PSF (2000)
D =	30 PSF (1440)	50 PSF (2400)
E =	40 PSF (1920)	67 PSF (3200)

WITH HORIZONTALS

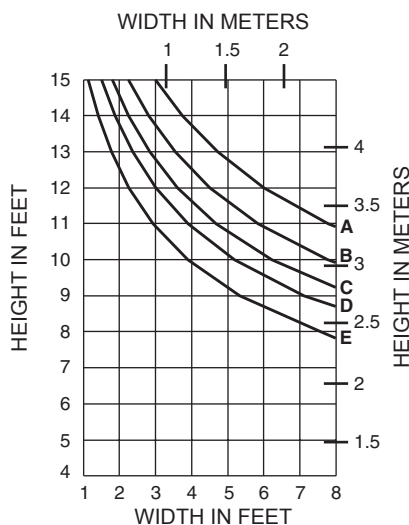


400001
450CG002
 $I = 2.291 (95.36 \times 10^4)$
 $S_E = 1.145 (18.76 \times 10^3)$

WITHOUT HORIZONTALS



WITH HORIZONTALS

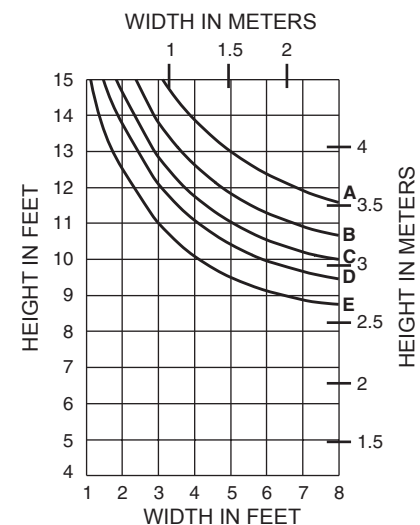


400001
450CG002
 $I_A = 2.291 (95.36 \times 10^4)$
 $S_E = 1.145 (18.76 \times 10^3)$

400110 STEEL

$I_s = 0.970 (40.37 \times 10^4)$
 $S_s = 0.535 (8.77 \times 10^3)$

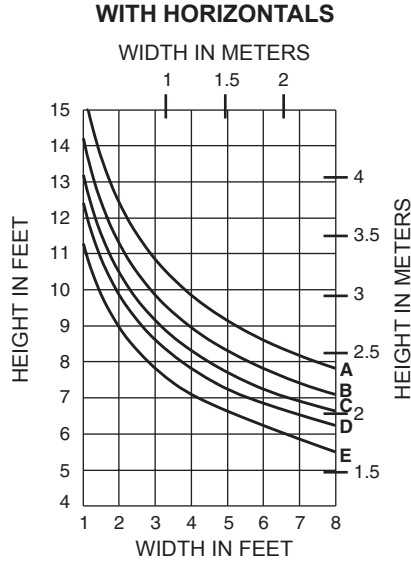
WITHOUT HORIZONTALS



Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© Kawneer Company, Inc., 2010

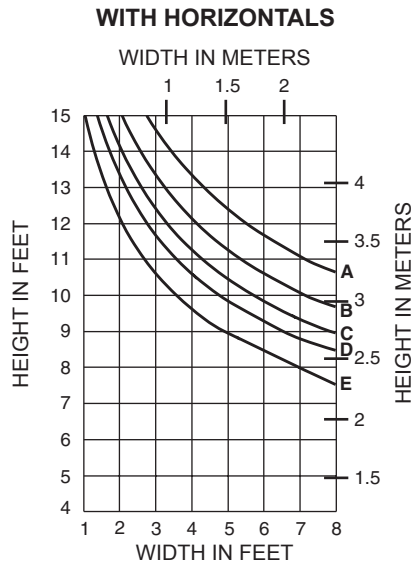
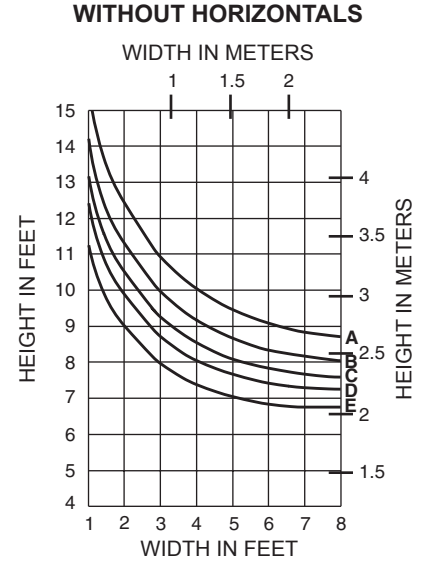
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	15 PSF (720)	25 PSF (1200)
B =	20 PSF (960)	33 PSF (1580)
C =	25 PSF (1200)	42 PSF (2000)
D =	30 PSF (1440)	50 PSF (2400)
E =	40 PSF (1920)	67 PSF (3200)



4000005

$$I_A = 1.882 (78.33 \times 10^4)$$

$$S_A = 0.941 (15.42 \times 10^3)$$



4000005

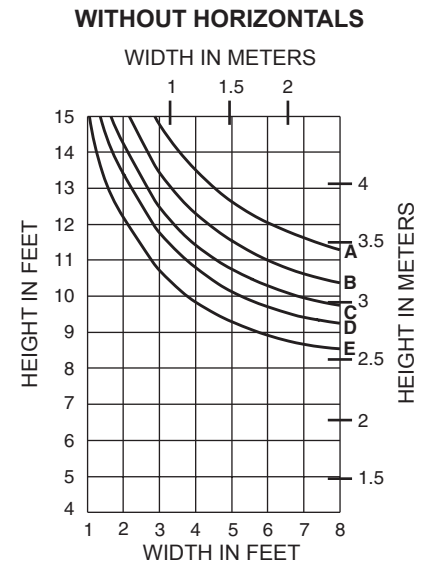
$$I_A = 1.882 (78.33 \times 10^4)$$

$$S_A = 0.941 (15.42 \times 10^3)$$

400110 STEEL

$$I_s = 0.970 (40.37 \times 10^4)$$

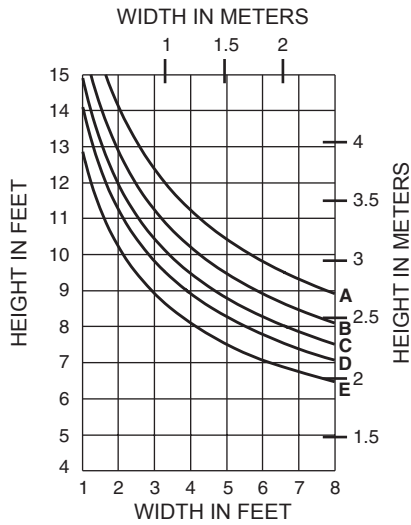
$$S_s = 0.535 (8.77 \times 10^3)$$



Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

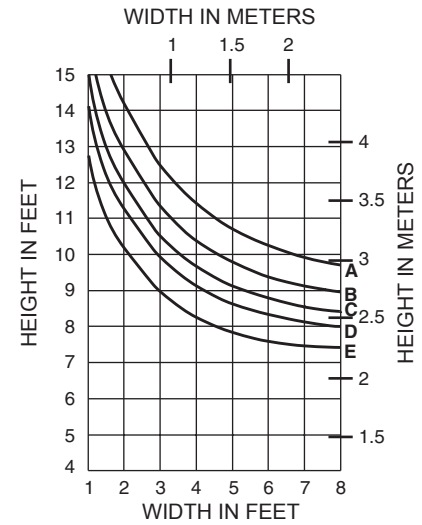
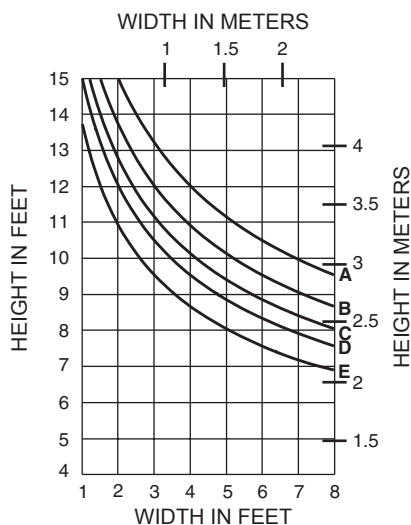
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© Kawneer Company, Inc., 2010

	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	15 PSF (720)	25 PSF (1200)
B =	20 PSF (960)	33 PSF (1580)
C =	25 PSF (1200)	42 PSF (2000)
D =	30 PSF (1440)	50 PSF (2400)
E =	40 PSF (1920)	67 PSF (3200)

WITH HORIZONTALS

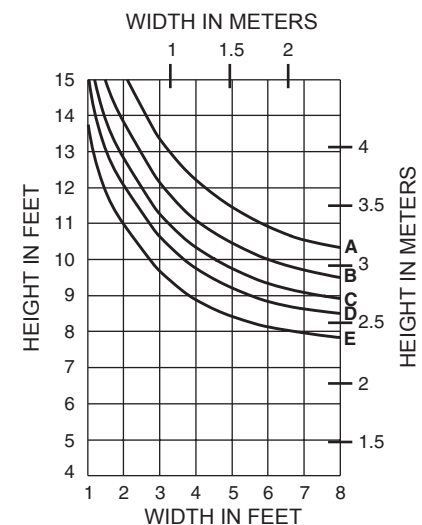
400010
400540

$I = 2.791 (116.17 \times 10^4)$
 $S = 1.395 (22.86 \times 10^3)$

WITHOUT HORIZONTALS**WITH HORIZONTALS**

400013
450CG002

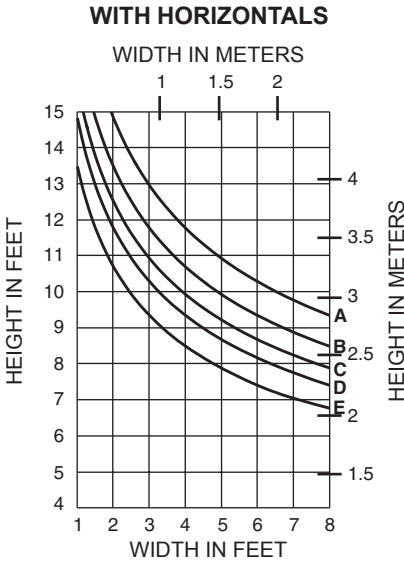
$I = 3.432 (142.85 \times 10^4)$
 $S_E = 1.716 (28.12 \times 10^3)$

WITHOUT HORIZONTALS

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

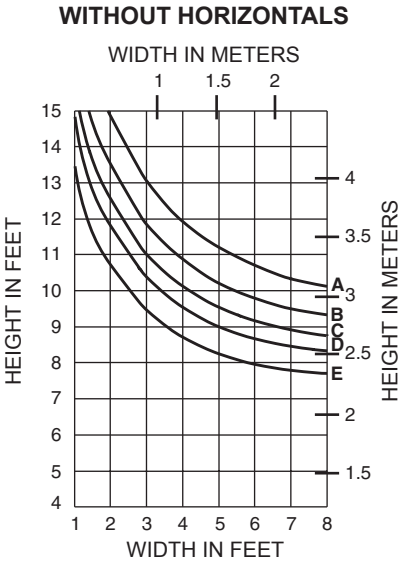
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© Kawneer Company, Inc., 2010

	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	15 PSF (720)	25 PSF (1200)
B =	20 PSF (960)	33 PSF (1580)
C =	25 PSF (1200)	42 PSF (2000)
D =	30 PSF (1440)	50 PSF (2400)
E =	40 PSF (1920)	67 PSF (3200)



400014

$I = 3.212 (133.69 \times 10^4)$
 $S = 1.606 (26.32 \times 10^3)$

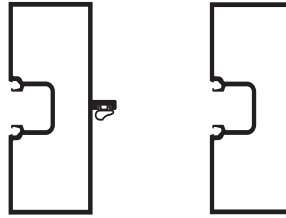
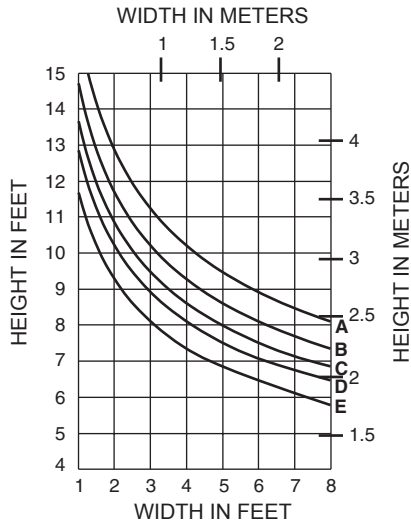


Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© Kawneer Company, Inc., 2010

	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	15 PSF (720)	25 PSF (1200)
B =	20 PSF (960)	33 PSF (1580)
C =	25 PSF (1200)	42 PSF (2000)
D =	30 PSF (1440)	50 PSF (2400)
E =	40 PSF (1920)	67 PSF (3200)

WITH HORIZONTALS



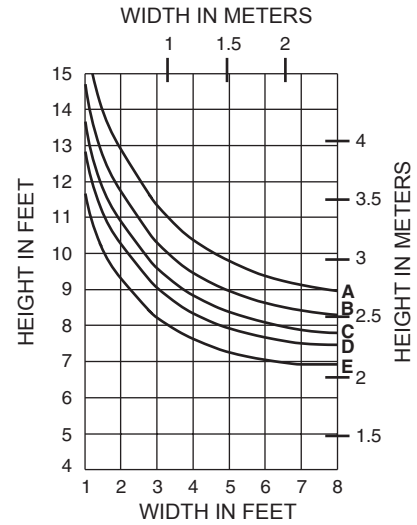
400501

400019

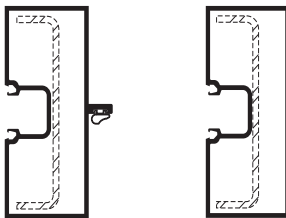
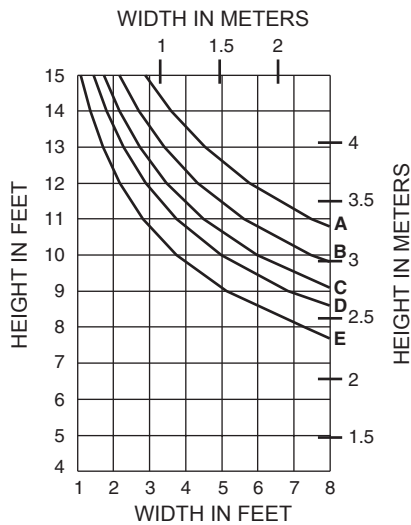
$$I = 2.093 (87.12 \times 10^4)$$

$$S = 1.044 (17.11 \times 10^3)$$

WITHOUT HORIZONTALS



WITH HORIZONTALS



400501

400019

$$I = 2.093 (87.12 \times 10^4)$$

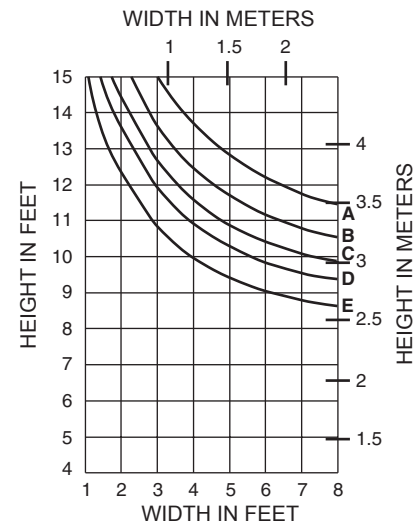
$$S = 1.044 (17.11 \times 10^3)$$

400110 STEEL

$$I_s = 0.970 (40.37 \times 10^4)$$

$$S_s = 0.535 (8.77 \times 10^3)$$

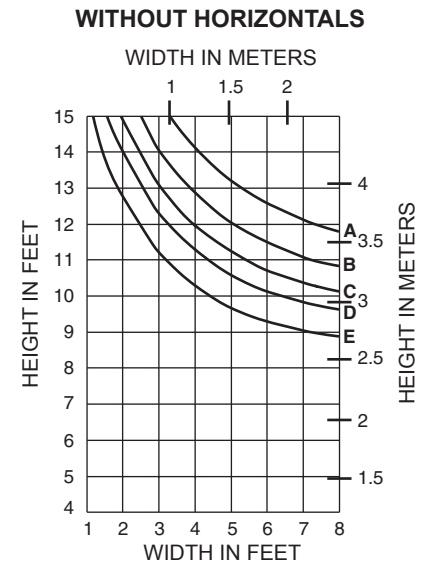
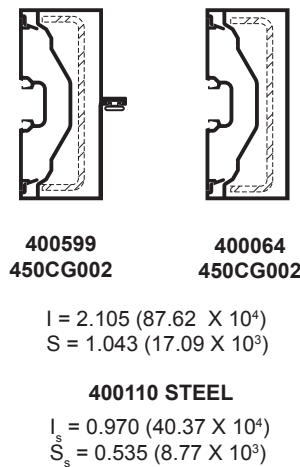
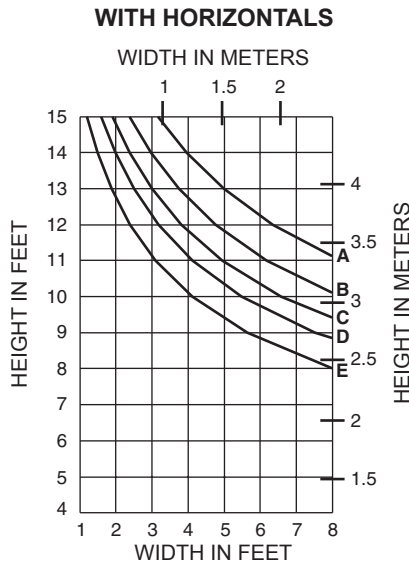
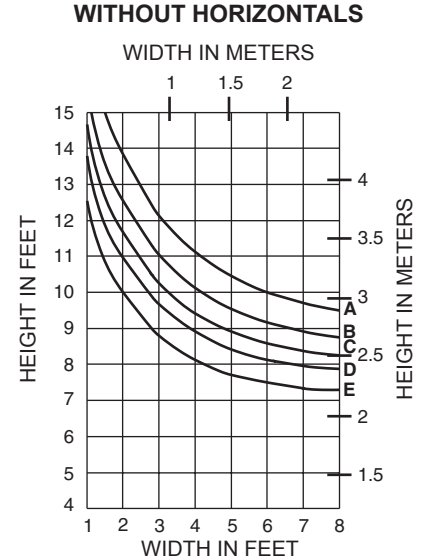
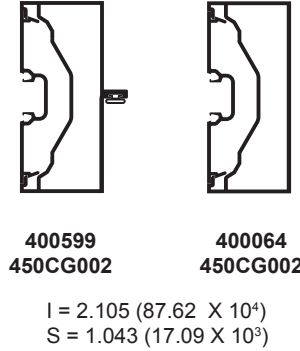
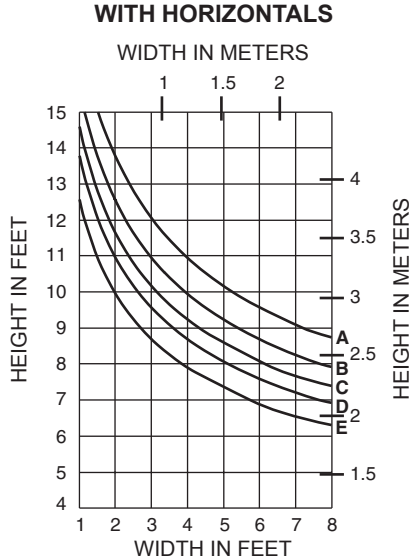
WITHOUT HORIZONTALS



Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© Kawneer Company, Inc., 2010

	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	15 PSF (720)	25 PSF (1200)
B =	20 PSF (960)	33 PSF (1580)
C =	25 PSF (1200)	42 PSF (2000)
D =	30 PSF (1440)	50 PSF (2400)
E =	40 PSF (1920)	67 PSF (3200)



Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

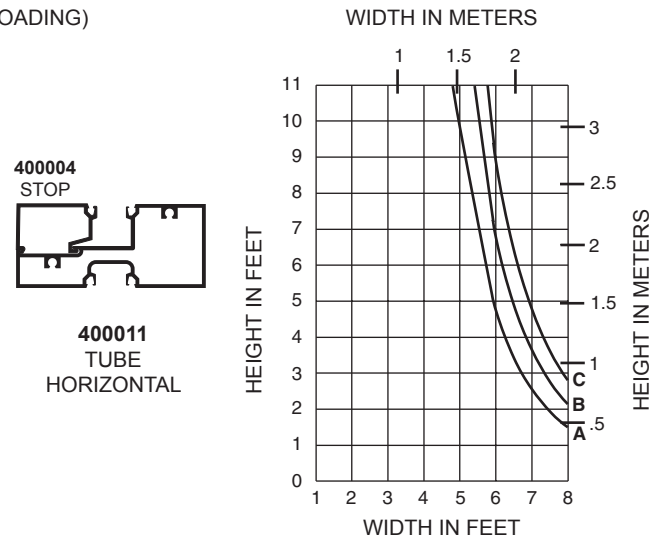
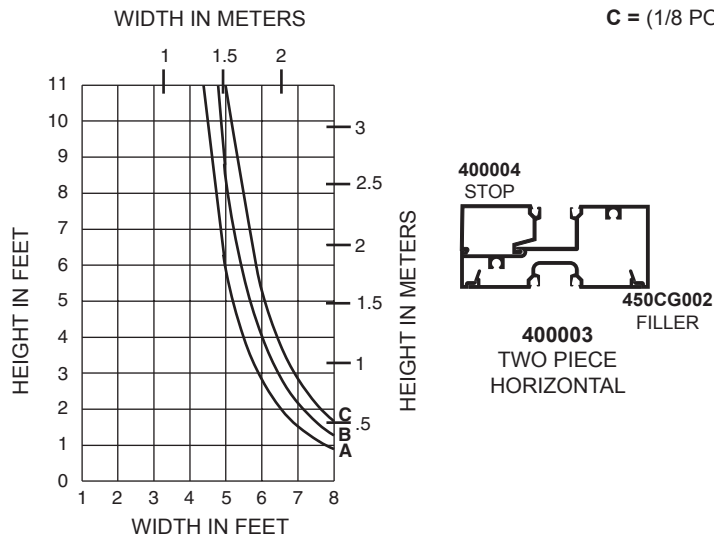
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© Kawneer Company, Inc., 2010

Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1/4" (6.35) thick glass supported on two setting blocks placed at the loading points shown.

A = (1/4 POINT LOADING)

B = (1/6 POINT LOADING)

C = (1/8 POINT LOADING)



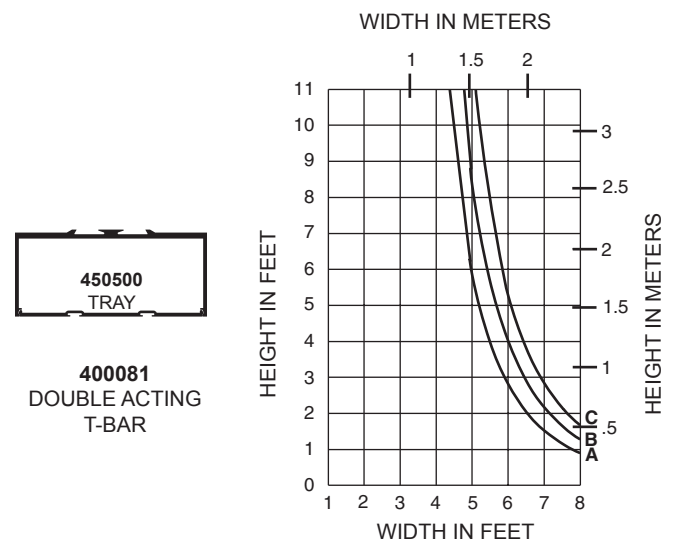
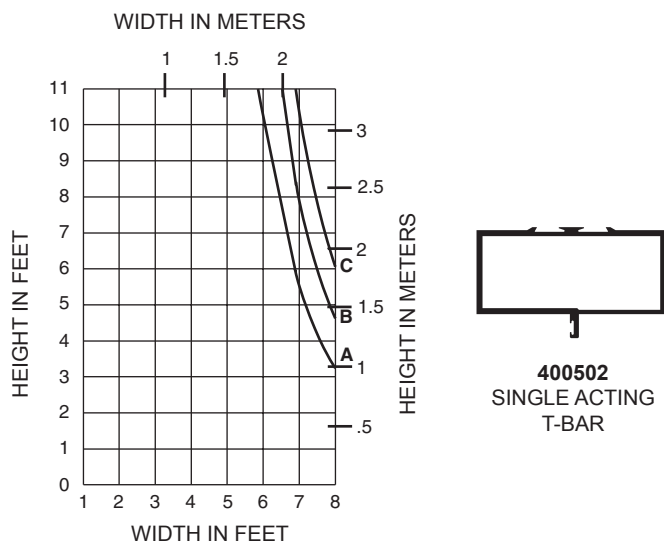
DEADLOADS ON ENTRANCE TRANSOM BARS

Height limitations for transom glass over a doorway are based on a 1/16" (1.6) maximum allowable deflection at the center of a transom bar. The accompanying chart is calculated for 1/4" (6.4) thick glass supported on two setting blocks placed at the loading points shown.

A = (1/4 POINT LOADING)

B = (1/6 POINT LOADING)

C = (1/8 POINT LOADING)



Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© Kawneer Company, Inc., 2010

Pro Industrial™ DTM Acrylic Semi-Gloss

B66-1150 Series


**SHERWIN
WILLIAMS®**

CHARACTERISTICS

Pro Industrial DTM Acrylic coating is an interior-exterior, water based, corrosion resistant acrylic coating for light to moderate industrial use. Designed for new construction or maintenance use and can be used directly over prepared substrates.

- Chemical Resistant
- Corrosion resistant
- Fast dry
- Flash rust-early rust resistance
- Suitable for use in USDA inspected facilities

Finish: Semi-Gloss 38-48° @60°
Color: Most colors

Recommended Spreading Rate per coat:

Wet mils: 6.0-10.0

Dry mils: 2.4-4.0

Coverage: 160-267 sq.ft. per gallon

Theoretical Coverage: 641 sq. ft. per gallon @ 1 mil dry

Approximate spreading rates are calculated on volume solids and do not include any application loss.

Note: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 6.0 mils wet, @ 50% RH:

Drying, and recoat times are temperature, humidity, and film thickness dependent.

	@50°F	@77°F	@110°F
To touch	1 hour	20 minutes	10 minutes
Tack free	2 hours	45 minutes	30 minutes
To recoat	2 hours	1 hour	1 hour

Tinting with CCE only:

Base	oz. per gallon	Strength
Extra White	0-6	SherColor
Deep Base	6-12	SherColor
Ultradeep Base	10-12	SherColor
Real Red	0-12	SherColor
Vivid Yellow	0-14	SherColor

Extra White B66W01151

(may vary by color)

V.O.C. (less exempt solvents): unreduced
less than 50 grams per litre; 0.42 lbs. per gallon

As per 40 CFR 59.406

Volume Solids:	40 ± 2%
Weight Solids:	51 ± 2%
Weight per Gallon:	10.21 lb
Flash Point:	N/A
Vehicle Type:	Acrylic
Shelf Life:	36 months, unopened

Store indoors at 40°F to 100°F.

COMPLIANCE

As of 06/16/2020, Complies with:

OTC	Yes
OTC Phase II	Yes
SCAQMD	Yes
CARB	Yes
CARB SCM 2007	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	Yes
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certification	Yes
MIR-Manufacturer Inventory	No
NSF® Certification	Yes
MPI®	Yes

APPLICATION

Temperature:

minimum 50°F / 10°C

maximum 110°F / 43°C

air, surface, and material

At least 5°F above dew point

Relative humidity: 85% maximum

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with the existing environmental and application conditions.

Reducer: Water

Airless Spray:

Pressure 1500 p.s.i.

Hose 1/4 inch I.D.

Tip .017 - .021 inch

Filter 60 mesh

Conventional Spray:

Gun Binks 95

Fluid Nozzle 66

Air Nozzle 63 PB

Atomization Pressure 50 p.s.i.

Fluid Pressure 10-20 p.s.i.

Reduction Not recommended

Brush Nylon-polyester

Roller Cover 1/4-3/8 inch woven

If specific application equipment is listed above, equivalent equipment may be substituted.

Due to this product's fast dry performance, brushing should be limited to small areas where a wet edge can be maintained

Apply paint at the recommended film thickness and spreading rate as indicated. Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Overspray landing on hot surfaces may adhere to these surfaces. Immediately remove overspray from hot surfaces before adhesion occurs.

SPECIFICATIONS

Steel*

2 coats Pro Industrial DTM Acrylic

Steel:

1 coat Pro Industrial Pro-Cryl Primer or Pro Industrial DTM Primer/Finish or Kem Bonds HS

or Zinc Clad Primer

1-2 coats Pro Industrial DTM Acrylic

Aluminum:

1-2 coats Pro Industrial DTM Acrylic

Aluminum (Water Based Primer):

1 coat Pro Industrial Pro-Cryl Primer

1-2 coats Pro Industrial DTM Acrylic

Concrete Block (CMU):

1 coat Pro Industrial Heavy Duty Blockfiller

or Loxon Acrylic Block Surfer

1-2 coats Pro Industrial DTM Acrylic

Concrete/Masonry:

1 coat Loxon Concrete & Masonry Primer (if needed)

or Loxon Conditioner (if needed)

2 coats Pro Industrial DTM Acrylic

Drywall:

1 coat ProMar 200 Zero V.O.C. Primer

1-2 coats Pro Industrial DTM Acrylic

Galvanizing:

2 coats Pro Industrial DTM Acrylic

Pre-Finished Siding: (Baked-on finishes)

1 coat Bond-Plex Waterbased Acrylic

or DTM Bonding Primer

1-2 coats Pro Industrial DTM Acrylic

Wood, exterior:

1 coat Exterior Wood Primer

1-2 coats Pro Industrial DTM Acrylic

Wood, interior:

1 coat Premium Wall & Wood Primer

1-2 coats Pro Industrial DTM Acrylic

*Application of coating on unprimed steel may cause pinpoint rusting. Safety Colors, Deep Base, and ultradeep colors require a prime coat for maximum durability, adhesion, and corrosion protection.

Zinc Primers - Refer to the zinc technical data sheet application procedures and performance tips prior to topcoating.

Pro Industrial™ DTM

Acrylic Semi-Gloss

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Do not use hydrocarbon solvents for cleaning.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer/sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Iron & Steel - Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Primer recommended for best performance

Aluminum - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1.

Galvanizing - Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP16 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned.

Concrete Block - Surface should be thoroughly clean and dry. Air, material and surface temperatures must be at least 55°F (13°C) before filling. Use Pro Industrial Heavy Duty Block Filler or Loxon Acrylic Block Surfacer. The filler must be thoroughly dry before topcoating.

Masonry - All masonry must be free of dirt, oil, grease, loose paint, mortar, masonry dust, etc. Clean per SSPC-SP13, Nace 6, ICRI No. 310.2R, CSP 1-3. Poured, troweled, or tilt-up concrete, plaster, mortar, etc. must be thoroughly cured at least 30 days at 75°F. Form release compounds and curing membranes must be removed by brush blasting. Brick must be allowed to weather for one year prior to surface preparation and painting. Prime the area the same day as cleaned. Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get to a hard, firm surface. Apply one coat Loxon Conditioner, following label recommendations.

Wood - Surface must be clean, dry, and sound. Prime with recommended primer. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped, sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked. Sand to remove any loose or deteriorated surface wood and to obtain a proper surface profile.

SURFACE PREPARATION

Previously Painted Surface - If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Mildew - Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.

PERFORMANCE

System Tested: (unless otherwise indicated)

Substrate: Steel

Surface Preparation: SSPC-SP10

Finish: 2 coats Pro Industrial DTM Acrylic
B66W01151, 3.0 D.F.T. per coat

Adhesion:

Method: ASTM D4541

Result: 1436 p.s.i.

Corrosion Weathering*:

Method: ASTM D5894, 7 cycles

Result: Rating 10, per ASTM D714
for Blistering. Rating 8.5 per
ASTM D1654 for corrosion

Direct Impact Resistance:

Method: ASTM D2794

Result: greater than 176 inch lb.

Dry Heat Resistance:

Method: ASTM D2485

Result: 300°F

Flexibility:

Method: ASTM D522, 1/8 inch mandrel

Result: Pass

Humidity Resistance*:

Method: ASTM D4585, 2186 hours

Result: Rating 10 per ASTM D714
for blistering. Rating 10 per
ASTM D1654 for corrosion

Pencil Hardness:

Method: ASTM D3363

Result: 2H

*over Pro Industrial Pro-Cryl Primer

No painting should be done immediately after a rain or during foggy weather.

Do not paint on wet surfaces.

Check adhesion by applying a test strip to determine the readiness for painting.

SAFETY PRECAUTIONS

Before using, carefully read **CAUTIONS** on label. Refer to the Safety Data Sheets (SDS) before use.

FOR PROFESSIONAL USE ONLY.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

HOTW 06/16/2020 B66W01151 18 35
FRC



PIZZA BONES