



plastpro

5200 W. CENTURY BLVD.
LOS ANGELES, CA 90045

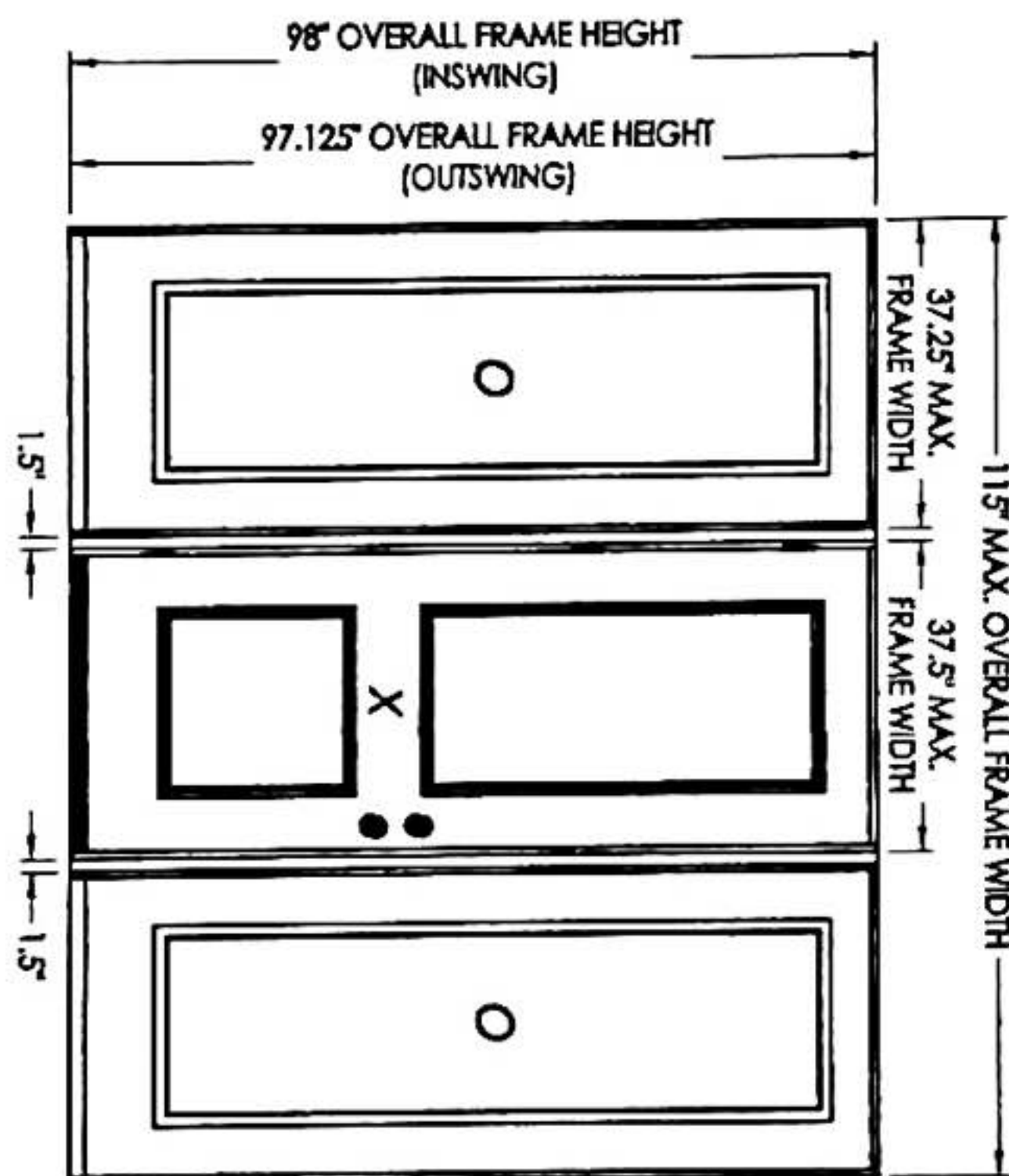
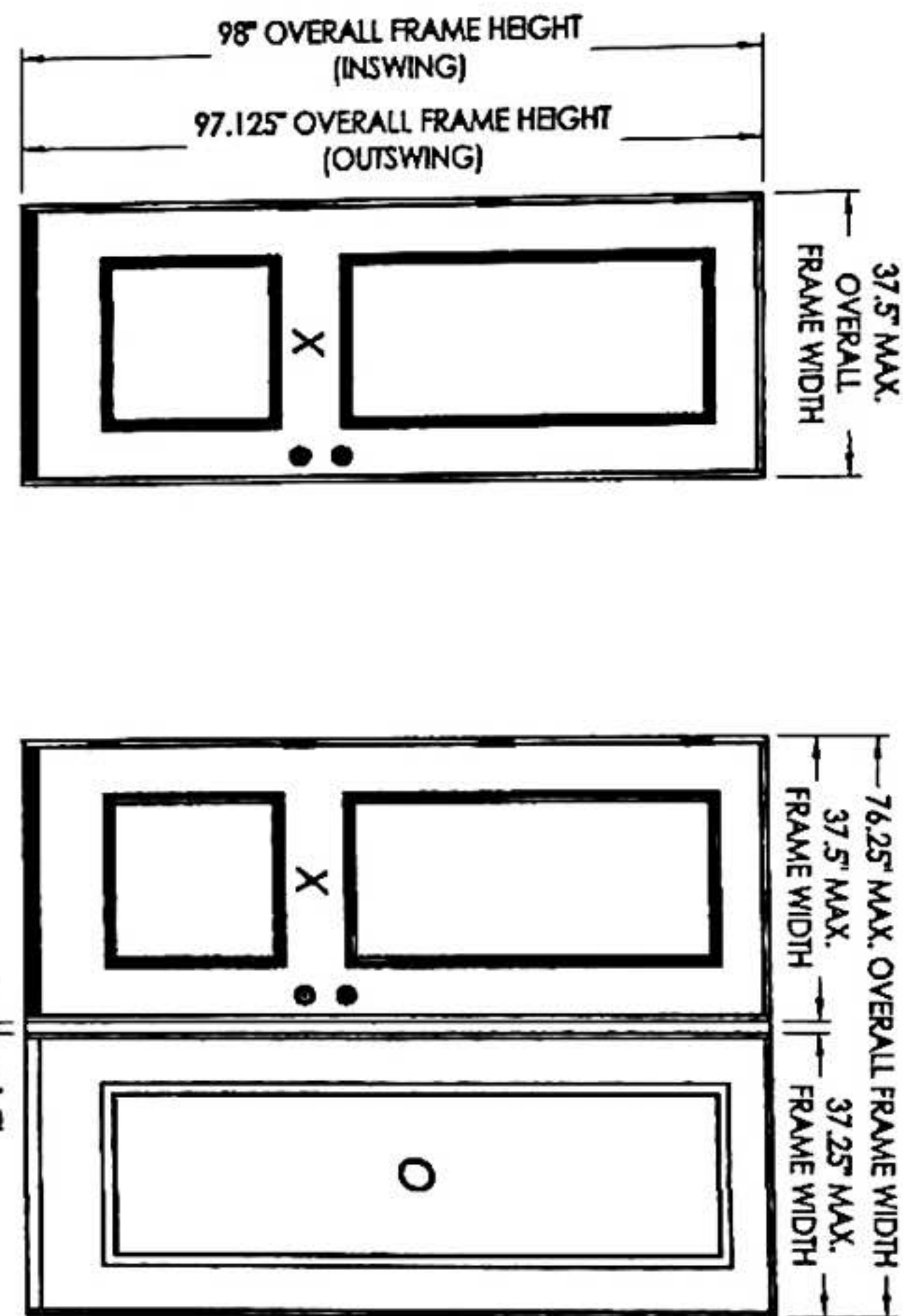
OPAQUE FIBERGLASS DOORS
SINGLES
W/ OR W/O SIDELITES
INSWING / OUTSWING
"NON-IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 5th Edition (2014) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection, this product is required to be protected with an impact resistant covering that complies with Section 1609.1.2 of the FBC.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

TABLE OF CONTENTS

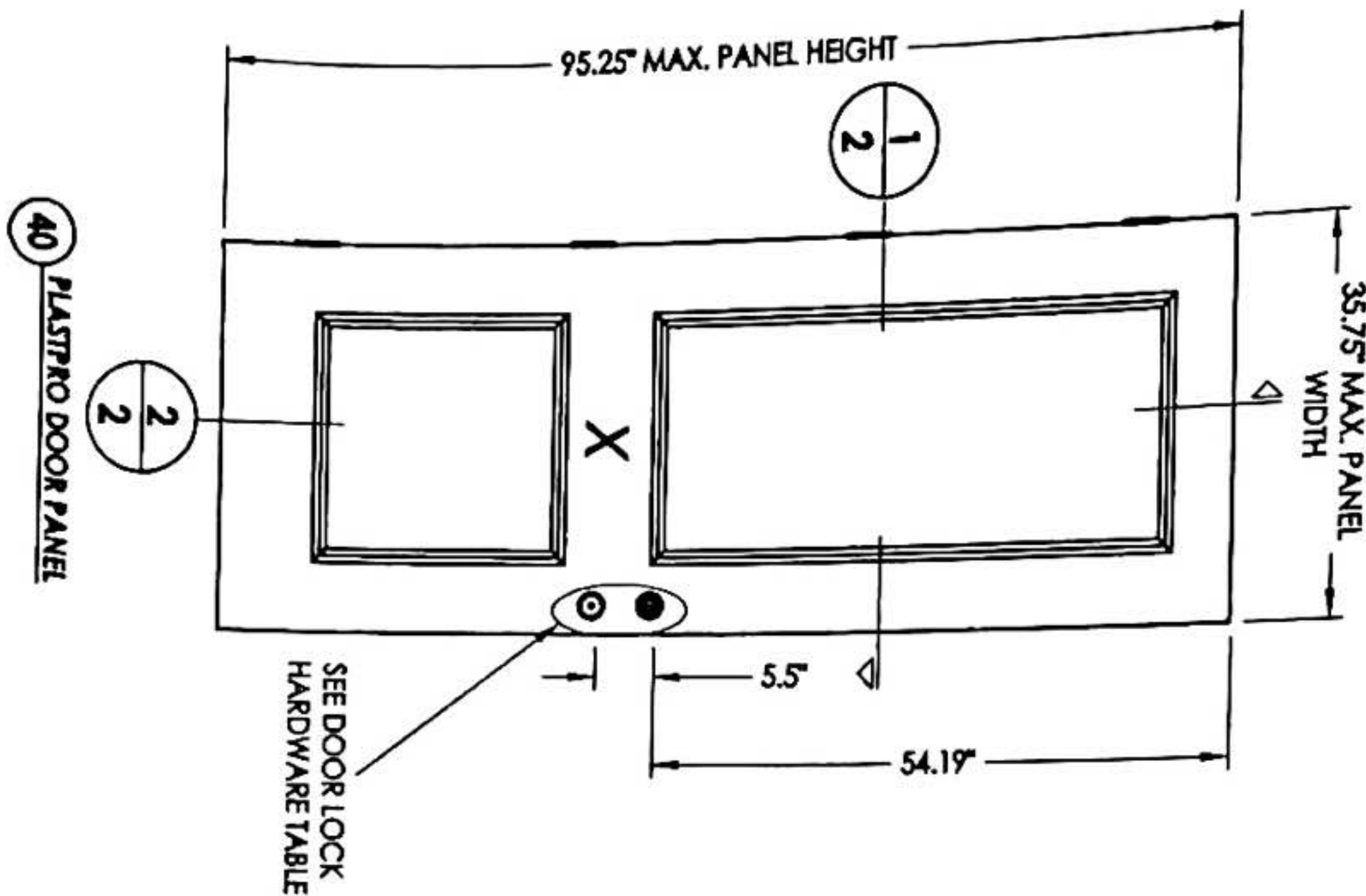
SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details
3	Sidelite panel details
4	Life frame glazing details
5	Elevations
6	Vertical cross sections
7	Horizontal cross sections
8	Buck anchoring
9	Frame anchoring & hardware details
10	Bill of materials and components



CONFIGURATION	MAX. FRAME DIMENSION	JAMB REINFORCEMENT	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	37.5" x 98.0"	N/A	+60.0	-65.0	+60.0	-60.0
	74.75" x 98.0"	N/A	+40.0	-45.0	+40.0	-40.0
OX/XO	76.25" x 98.0"	2X	+45.0	-50.0	+45.0	-45.0
	112.0" x 98.0"	N/A	+40.0	-45.0	+40.0	-40.0
OXO	115.0" x 98.0"	2X	+45.0	-50.0	+45.0	-45.0

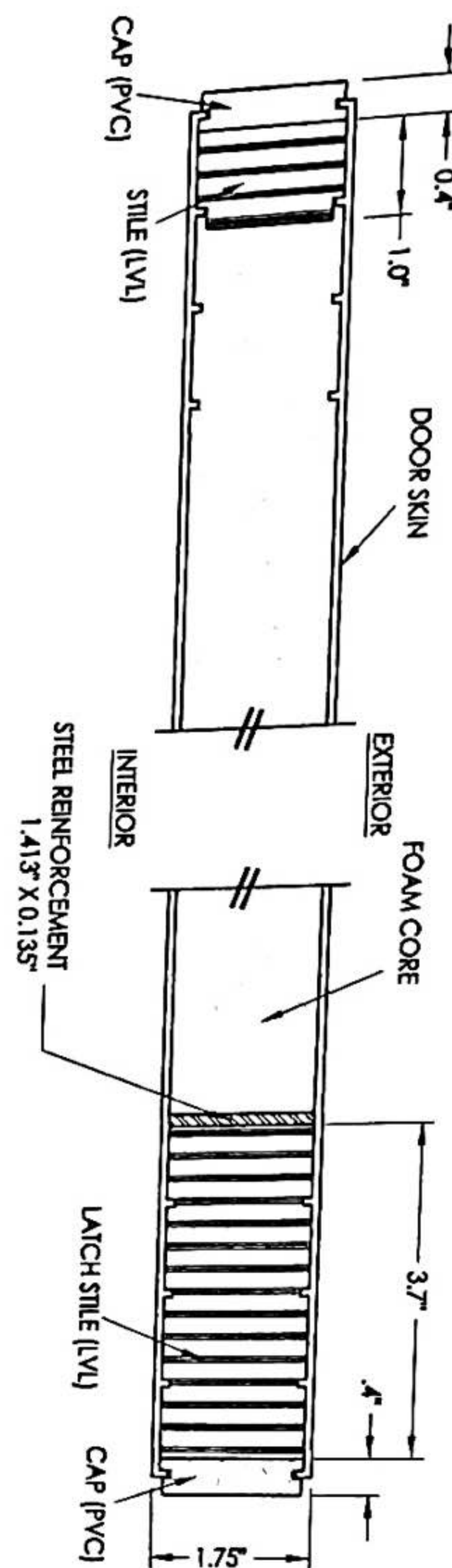
DATE: 10/8/14				SCALE: N.T.S.		DWG. BY: JK		CHK. BY: LFS		DRAWING NO.: FL-17347.11		SHEET 1 OF 10	
												PRODUCT: PLASTPRO FIBERGLASS DOOR	
												PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
1				04/14/15		UPDATE TO 5TH ED. (2014) FBC				JK			
NO.				DATE						BY			
						REVISIONS							
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409												STATE OF FLORIDA PROFESSIONAL ENGINEER	
RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE C.A. No. 9813													

FL-17347-11

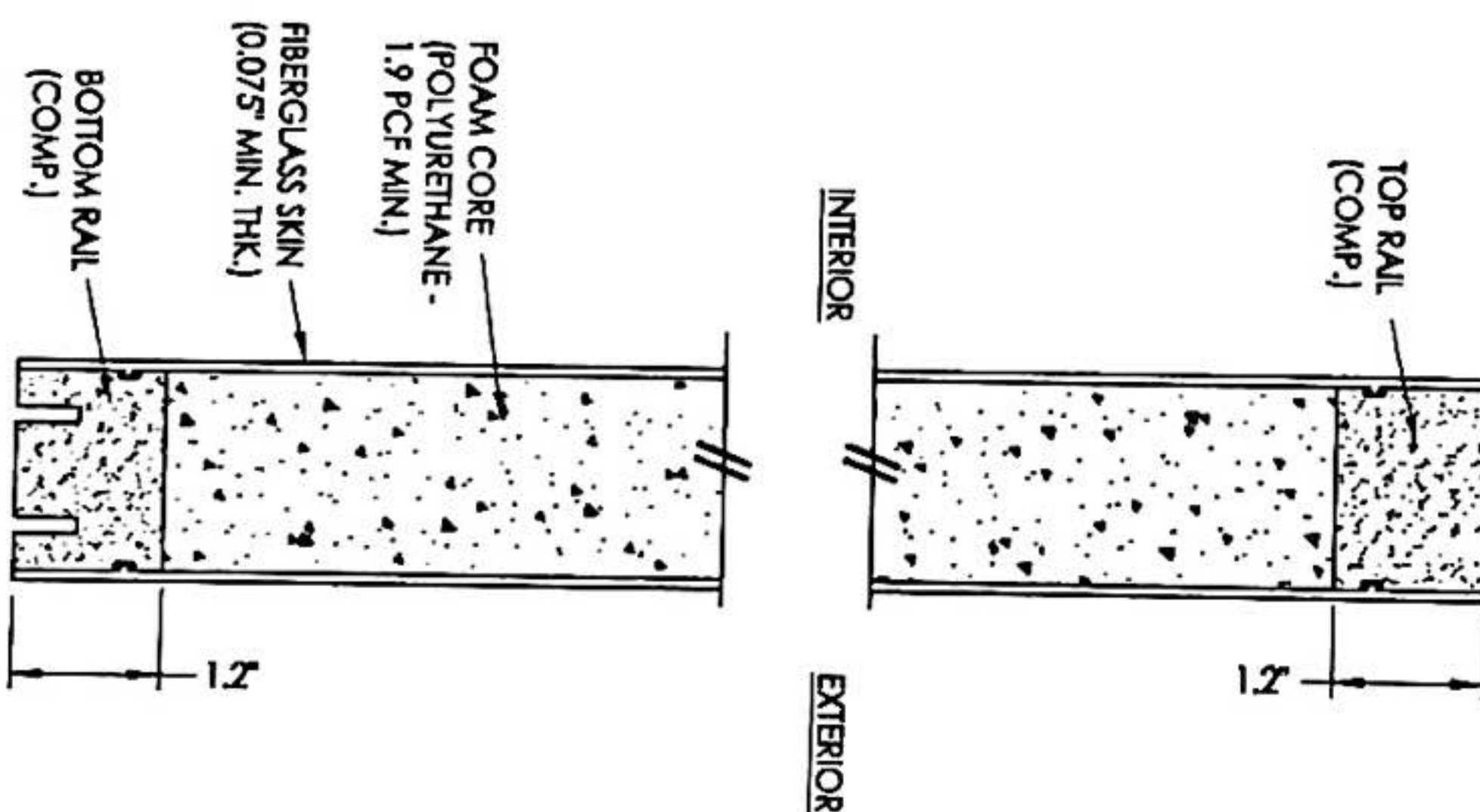


DOOR LOCK HARDWARE TABLE			
MANUFACTURER	MODEL	KNOS	DEADBOLT
KNIKSET	SERIES (400)	KNOS: DEADBOLT: SERIES (400)	
YALE	CIRKUS 100 C	KNOS: DEADBOLT: 820 SINGLE CYLINDER	

1 HORIZONTAL CROSS SECTION



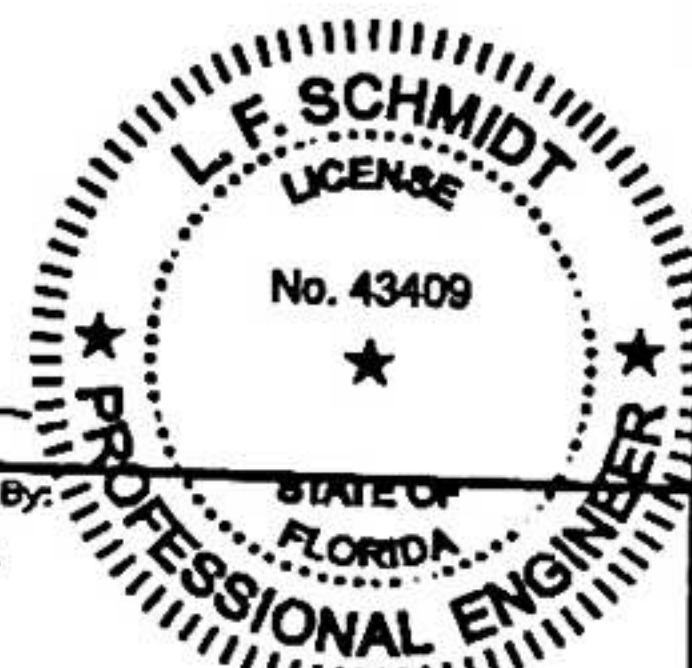
2 VERTICAL CROSS SECTION



PRODUCT: PLASTPRO FIBERGLASS DOOR
PART OR ASSEMBLY: DOOR PANEL DETAILS

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

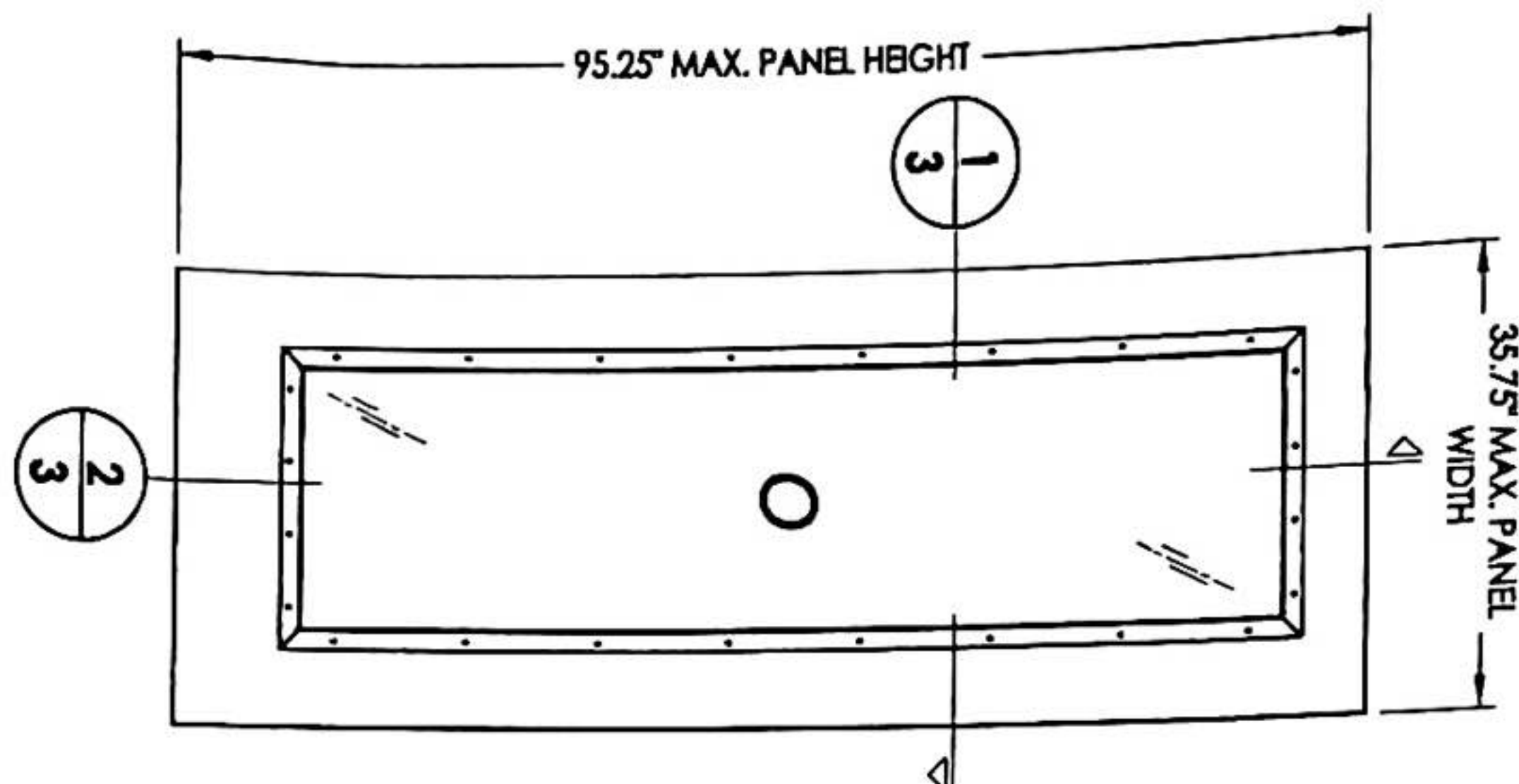
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813



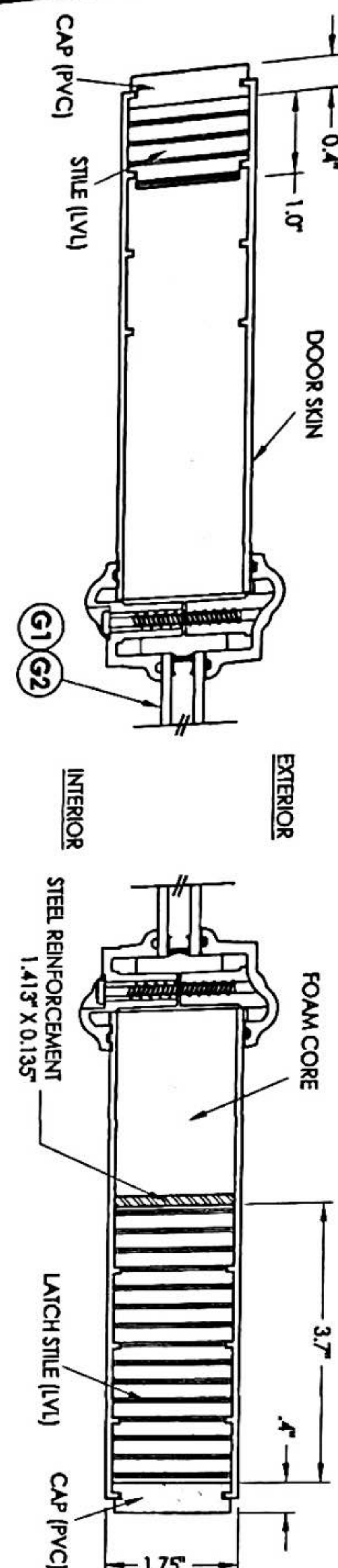
NO.	DATE	REVISIONS	BY
1	04/14/15	UPDATE TO 5TH ED. (2014) FBC	JK

DATE: 10/8/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17347.11
SHEET 2 of 10

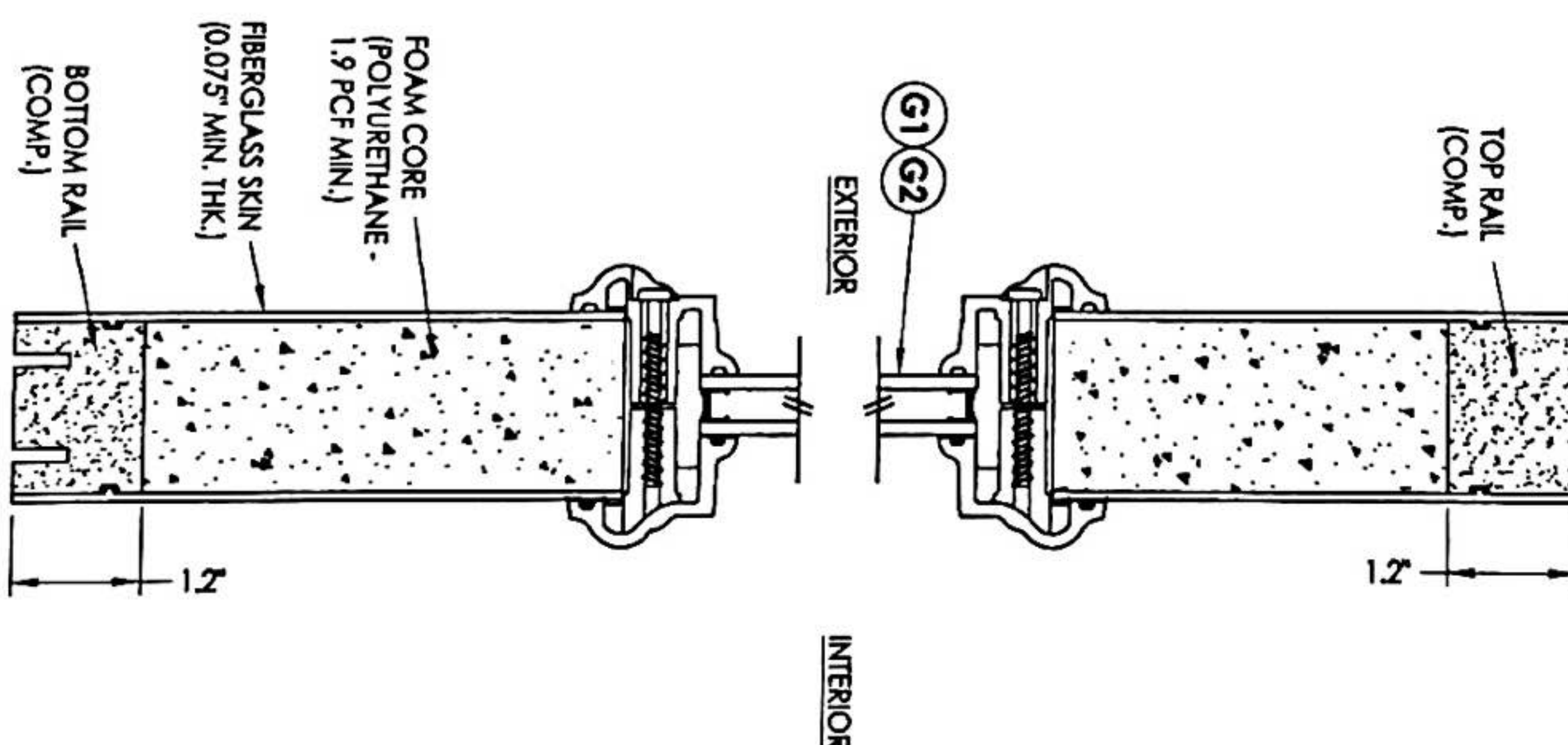
50 PLASTPRO SIDELITE PANEL



1 HORIZONTAL CROSS SECTION



2 VERTICAL CROSS SECTION



NO.	DATE	REVISIONS	CHK. BY	DATE
1	04/14/15	UPDATE TO 5TH ED. (2014) FBC	JK	

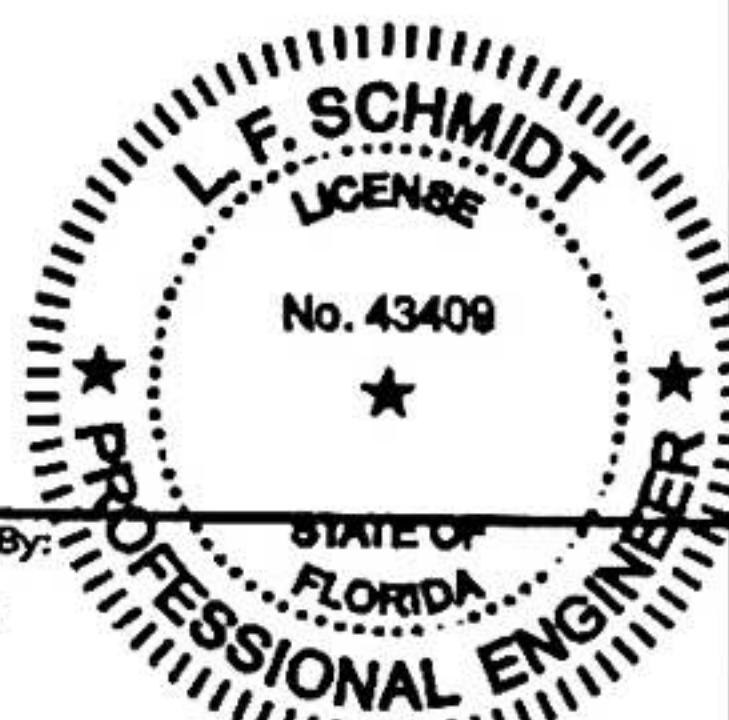
PRODUCT:
PLASTPRO
FIBERGLASS DOOR

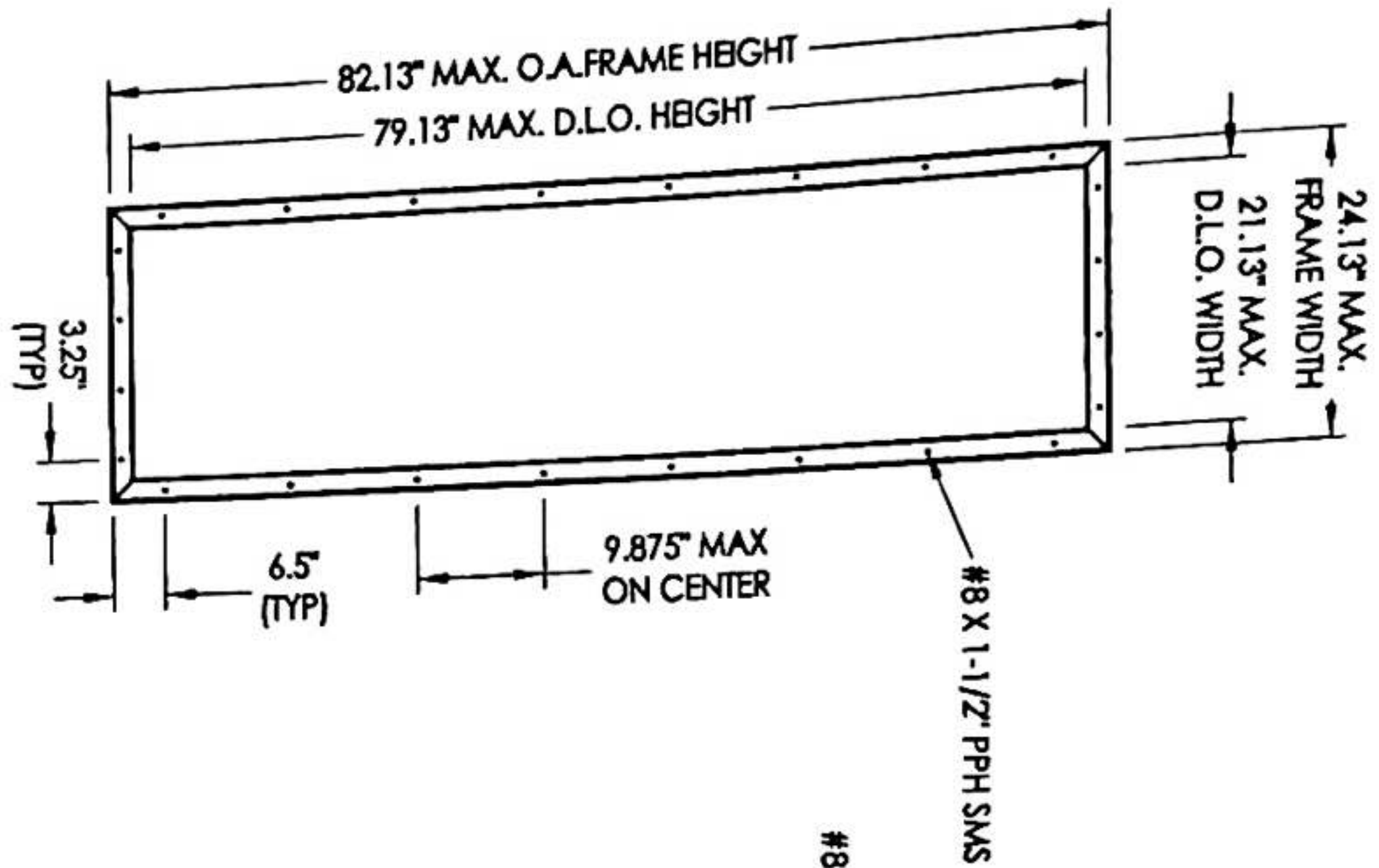
PART OR ASSEMBLY:
SIDELITE
PANEL DETAILS

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

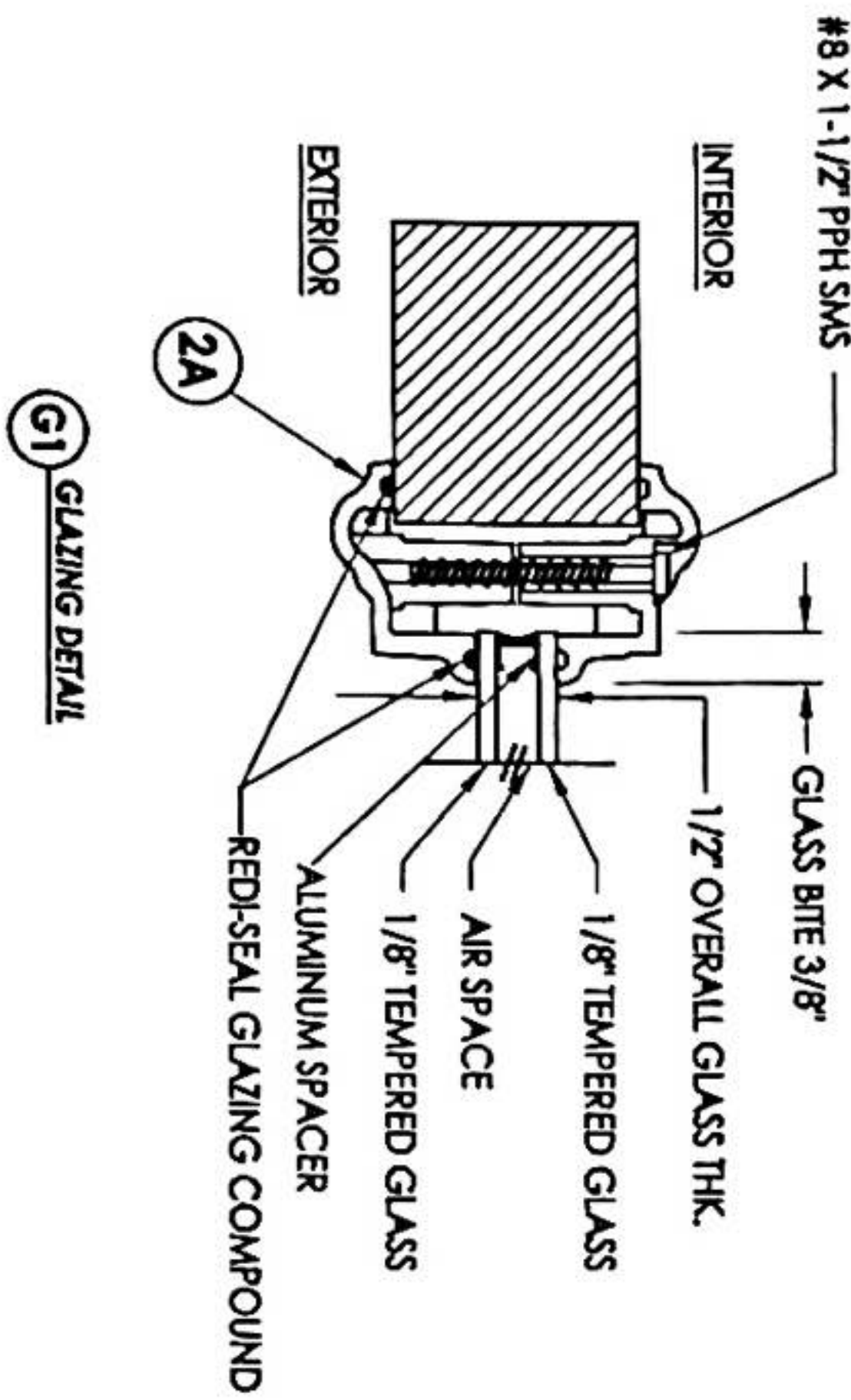
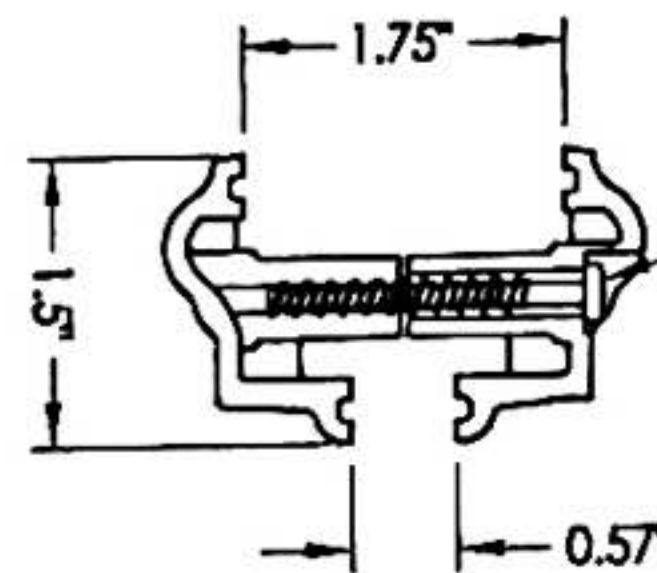
RW

BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

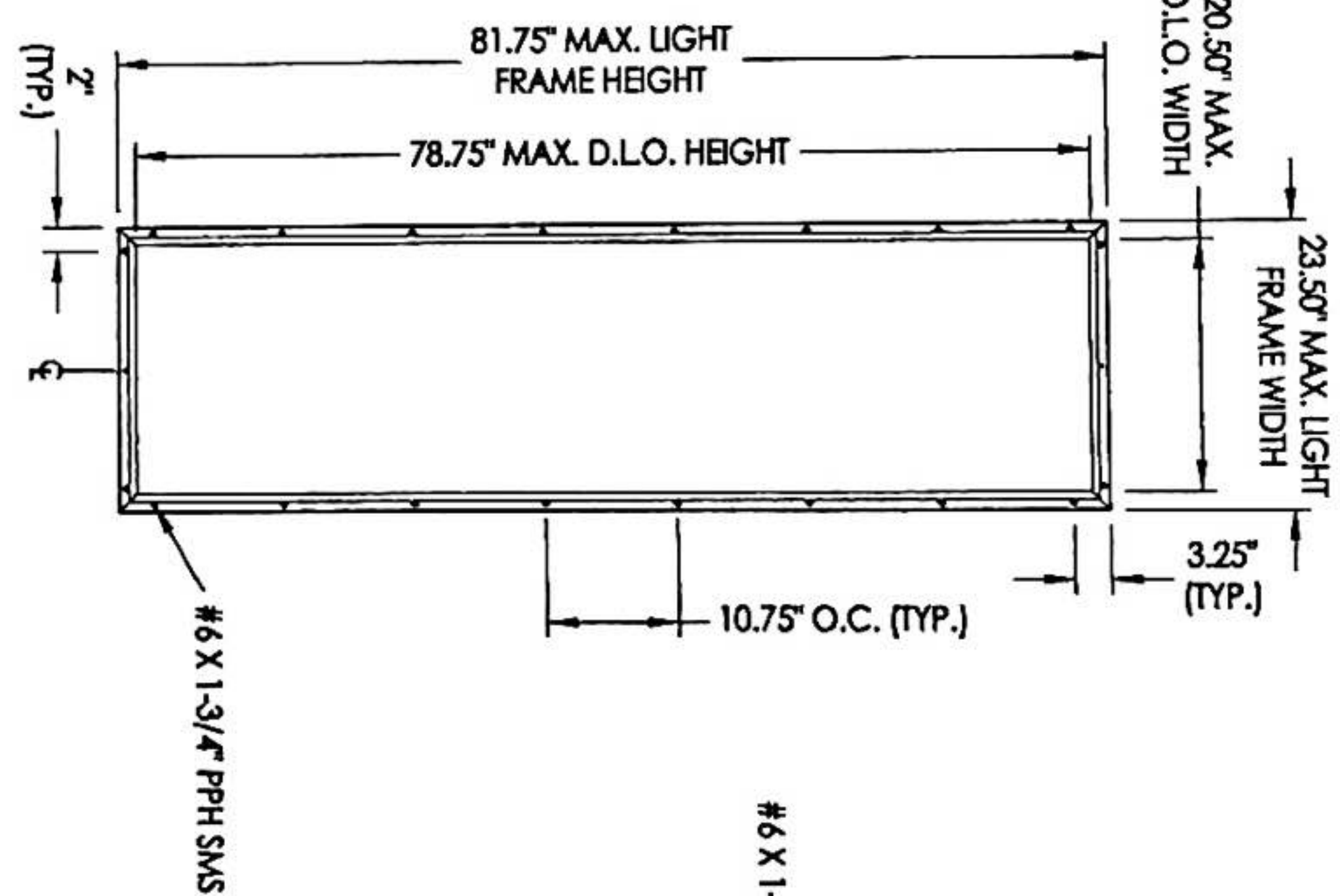




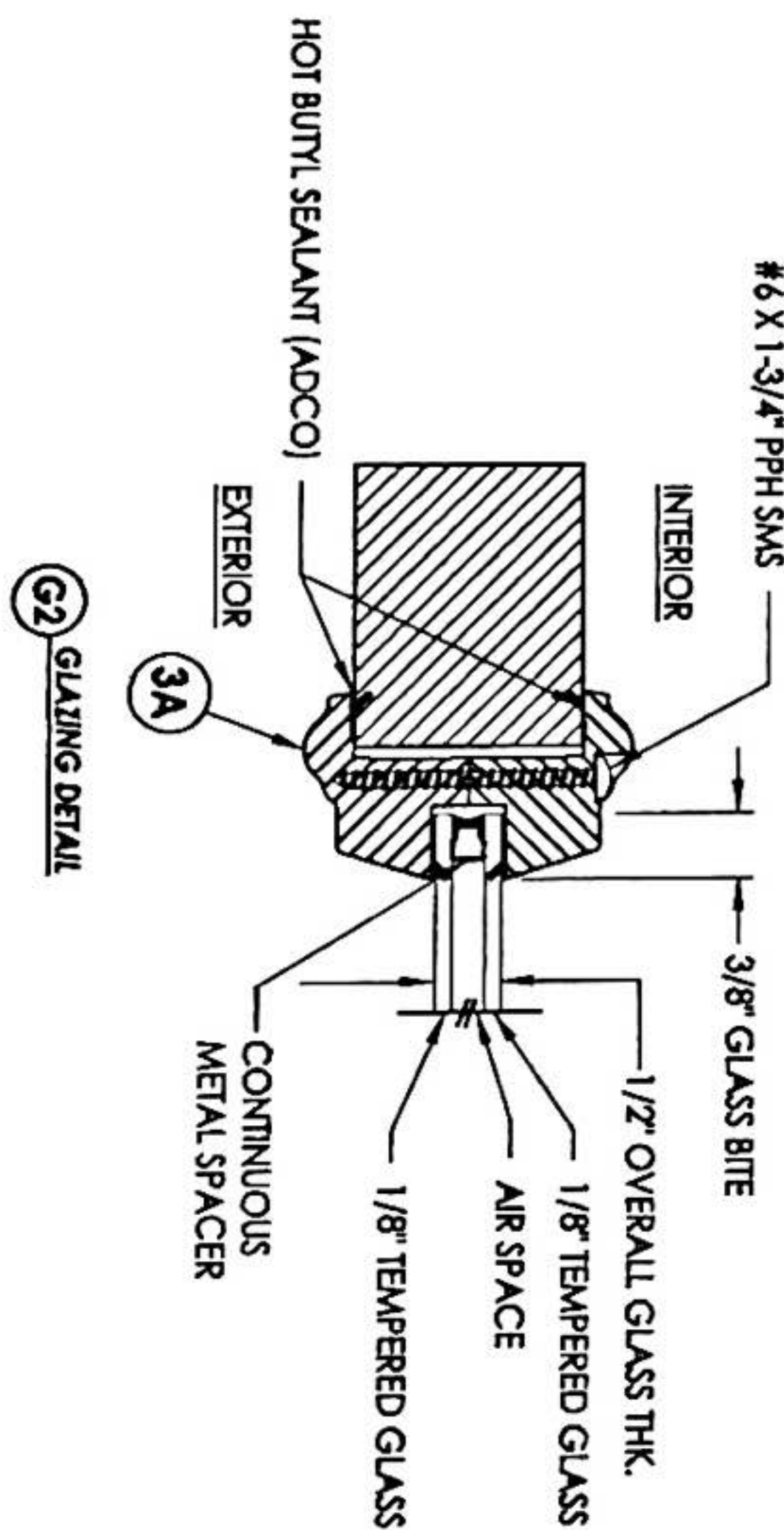
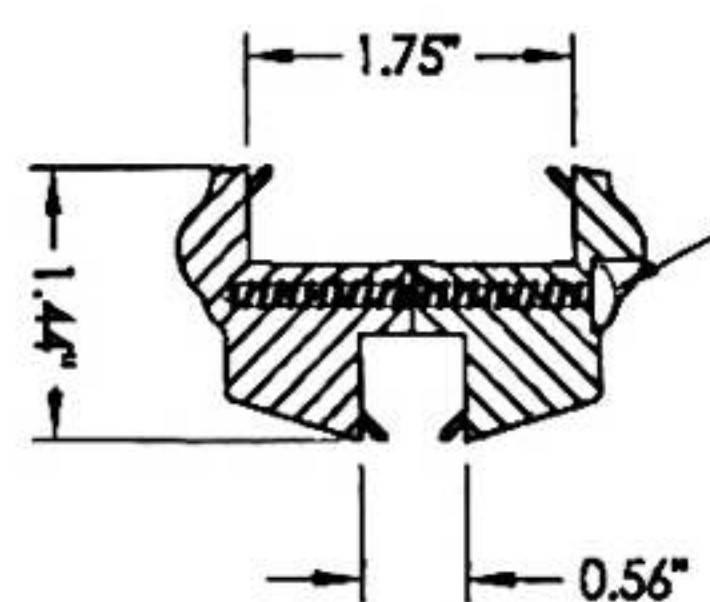
2A OD Lite Frame
HP Polypropylene



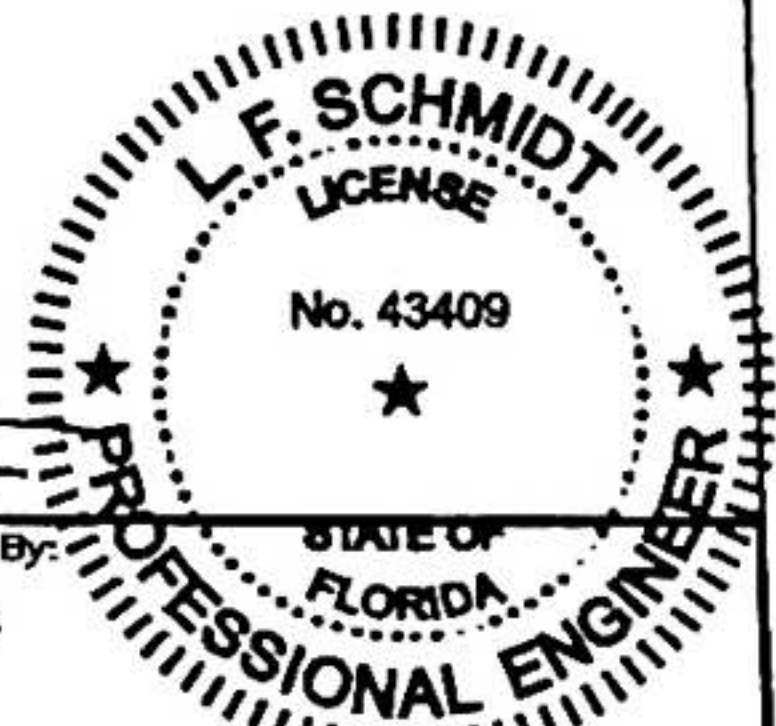
G1 GLAZING DETAIL



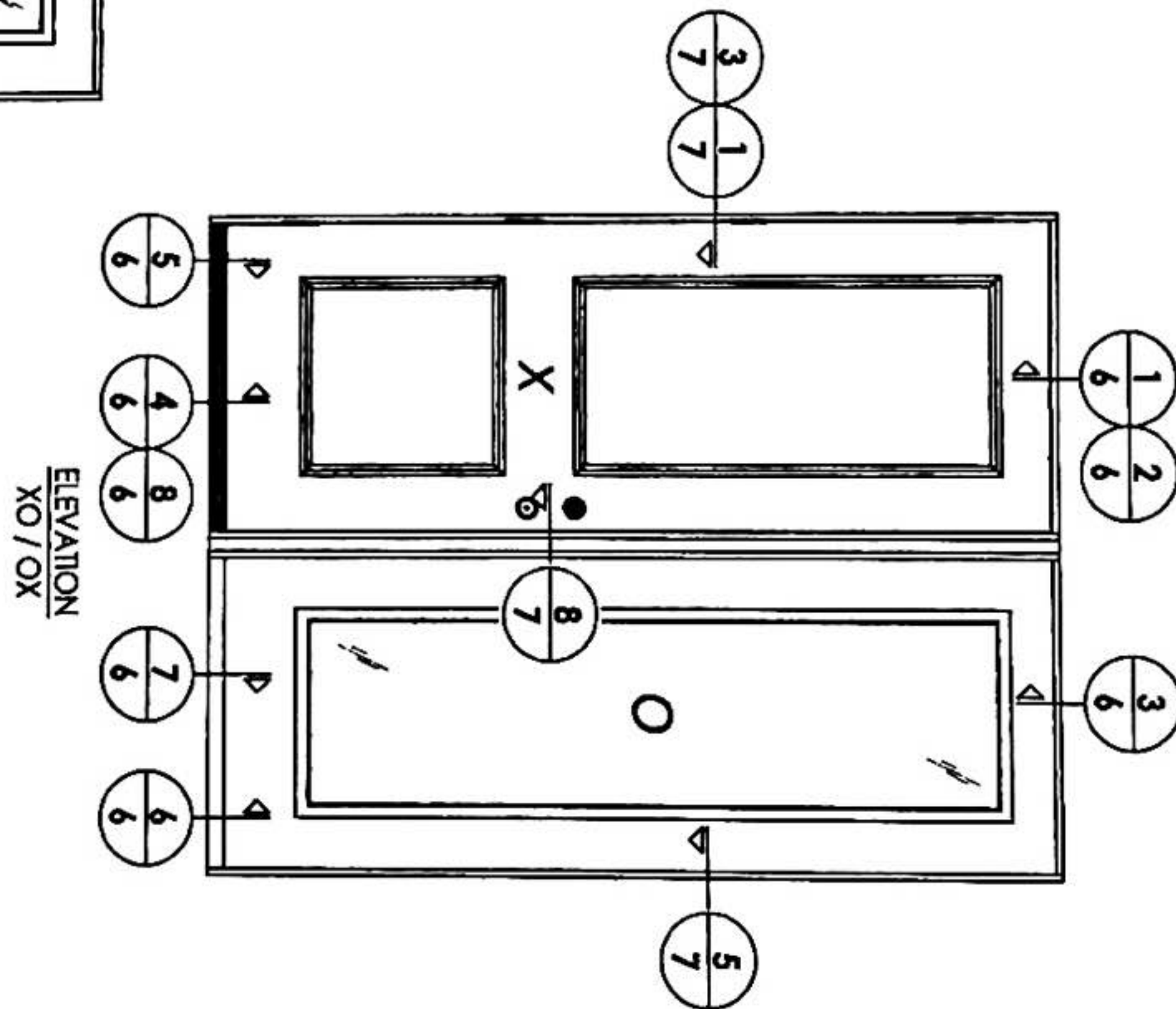
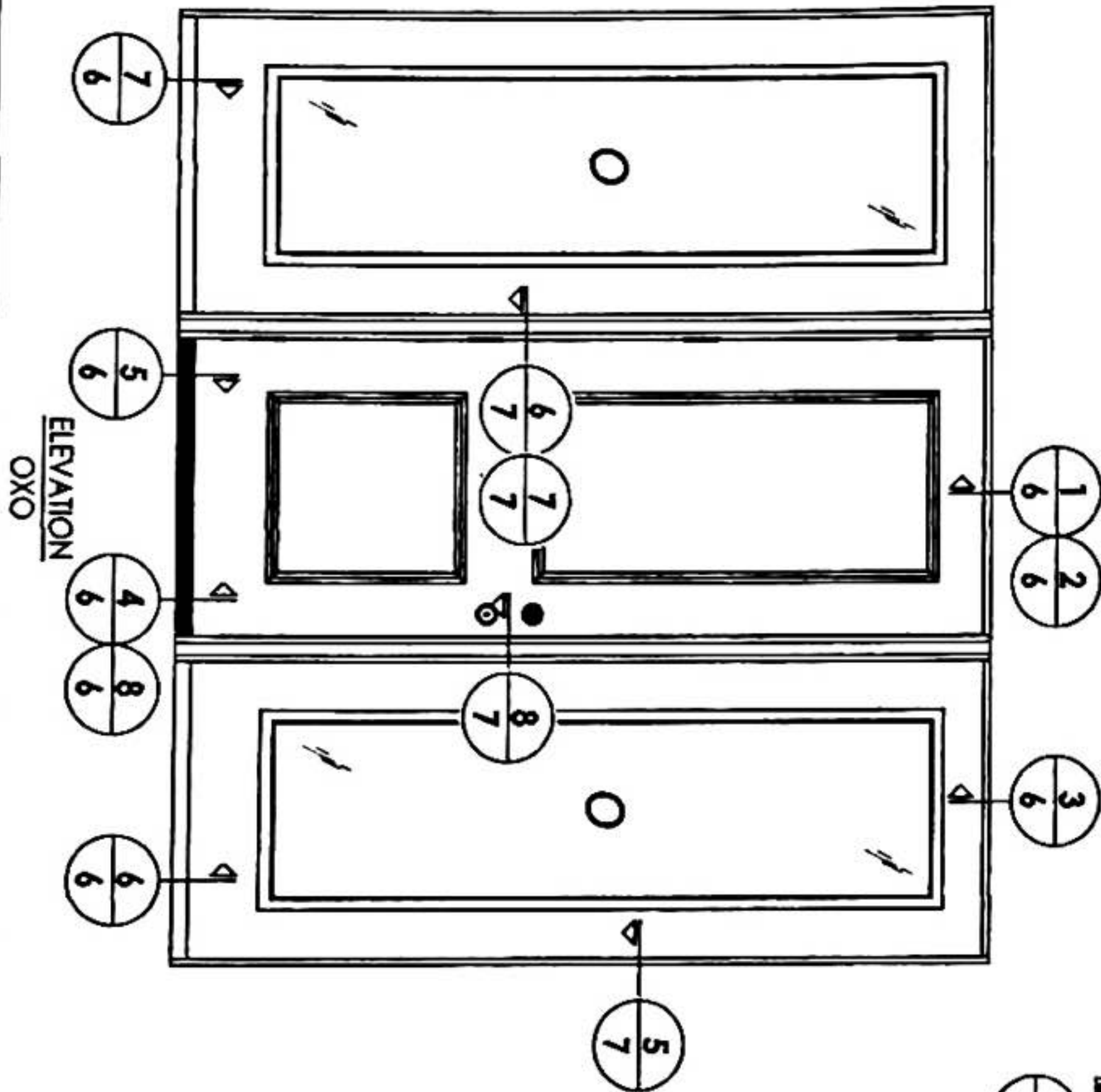
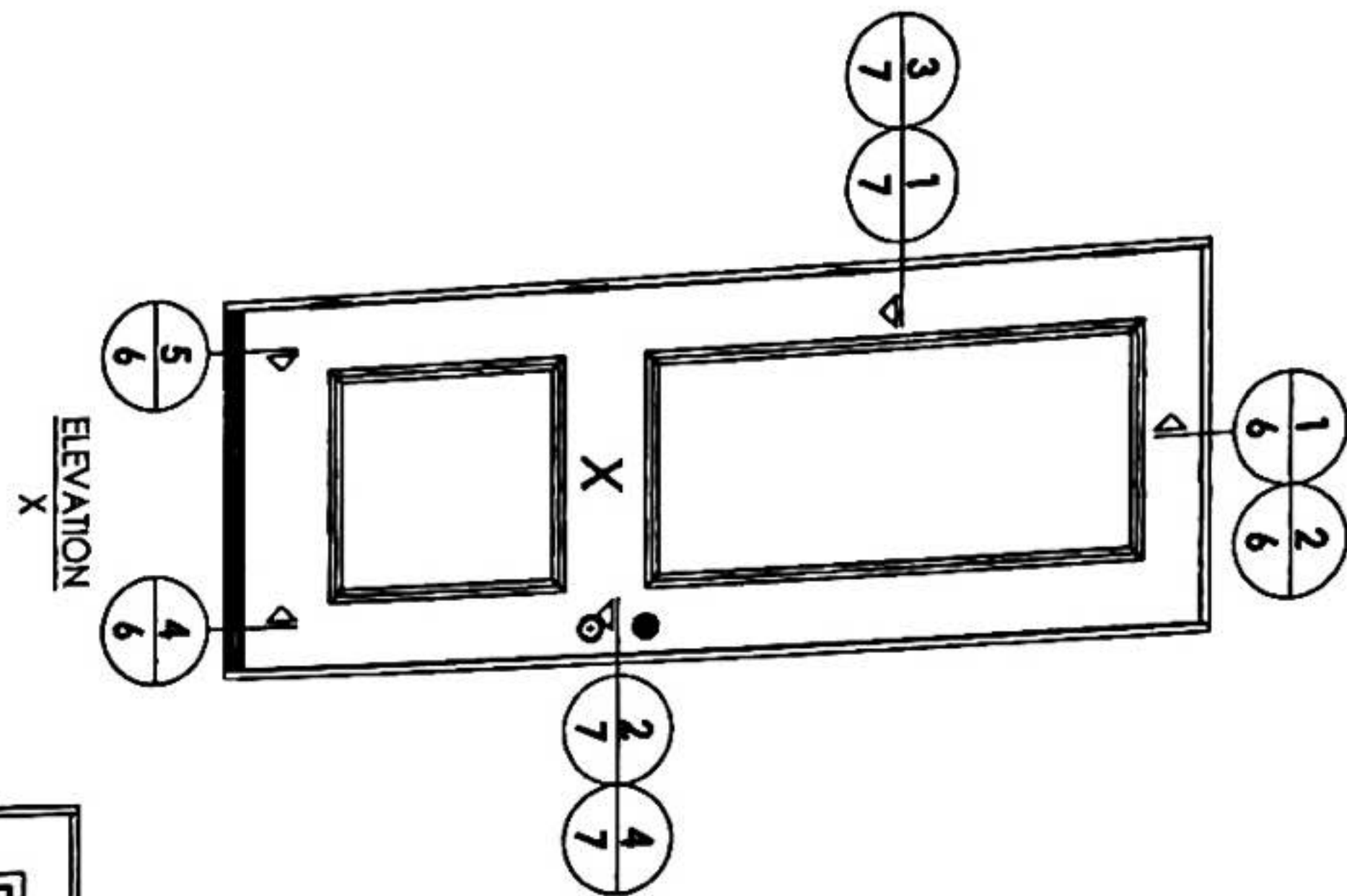
3A RSL Lite Frame



G2 GLAZING DETAIL



PRODUCT: PLASTPRO FIBERGLASS DOOR PART OR ASSEMBLY: LITE FRAME GLAZING DETAILS				Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409 BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE C.A. No. 9813	
DATE: 10/8/14	SCALE: N.T.S.	DWG. BY: JK	CHK. BY: LFS	SHEET 4 OF 10	
NO.	DATE	DESCRIPTION	BY		
1	04/14/15	UPDATE TO 5TH ED. (2014) FBC	JK		

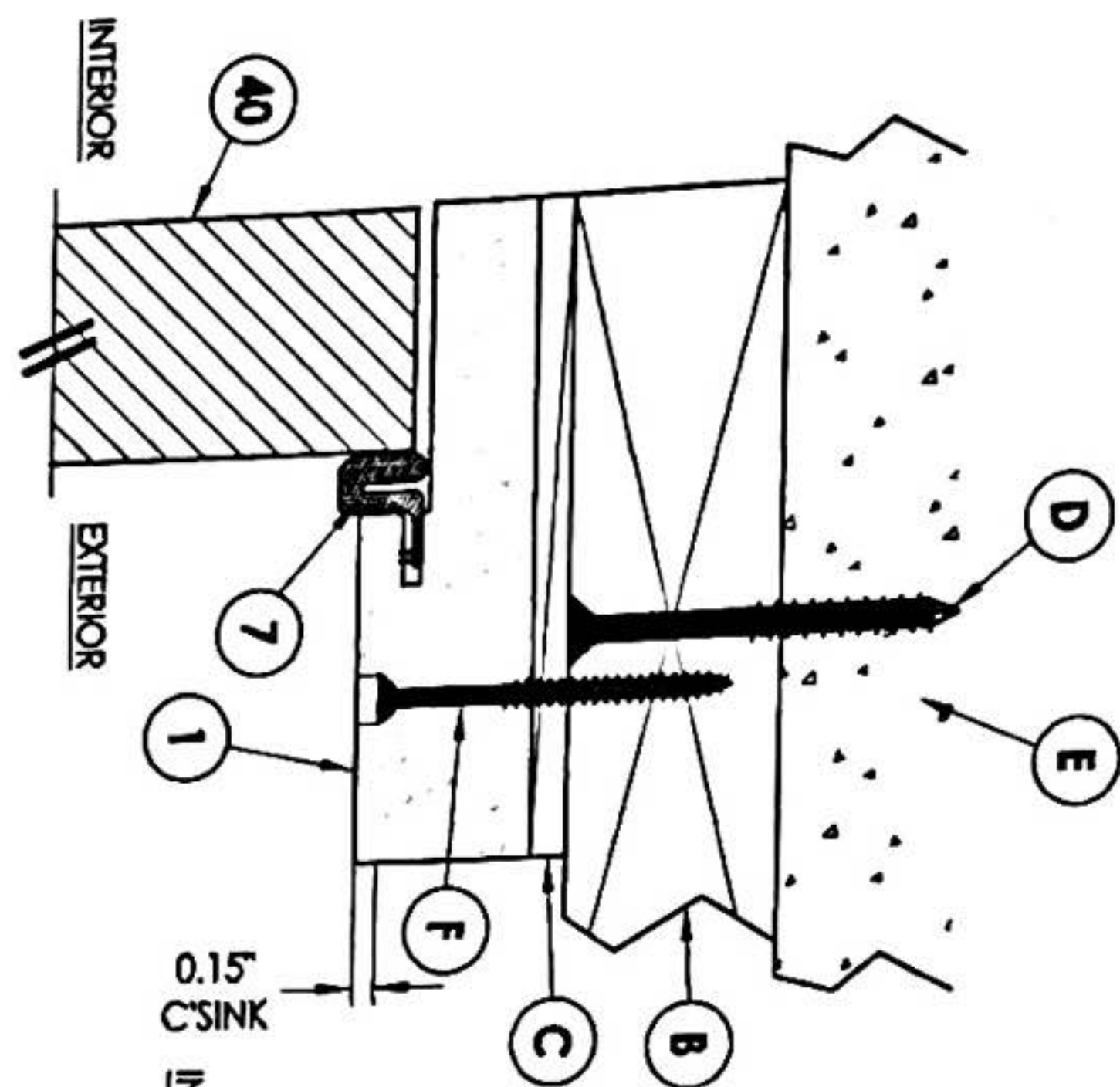


Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

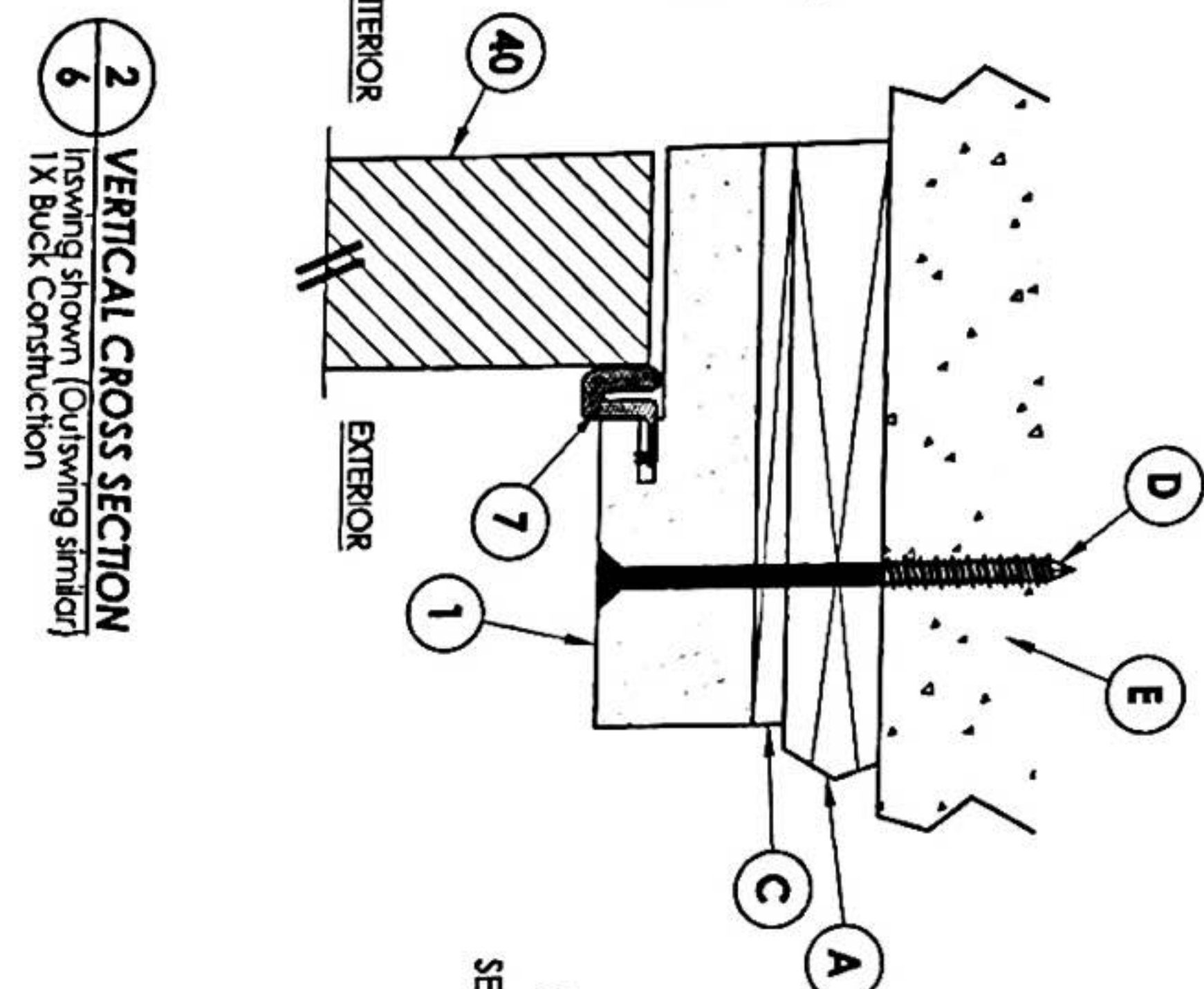
PRODUCT:
PLASTPRO
FIBERGLASS DOOR
PART OR ASSEMBLY:
ELEVATIONS

NO.	DATE	REVISIONS	BY
1	04/14/15	UPDATE TO 5TH ED. (2014) FBC	JK

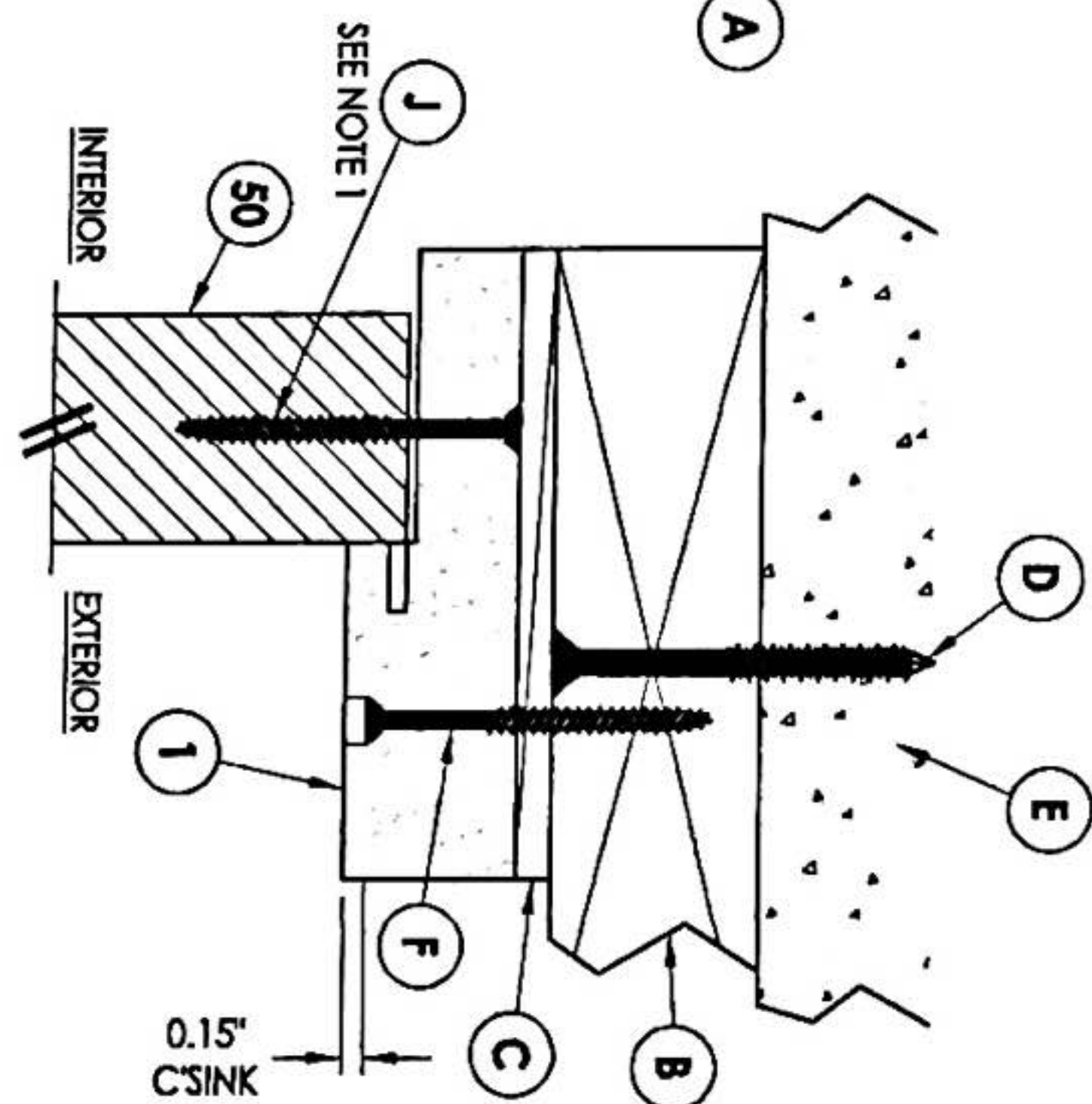
DATE: 10/8/14
SCALE: N.T.S.
CHK. BY: JK
DRAWING NO.: FL-17347.11
SHEET 5 OF 10



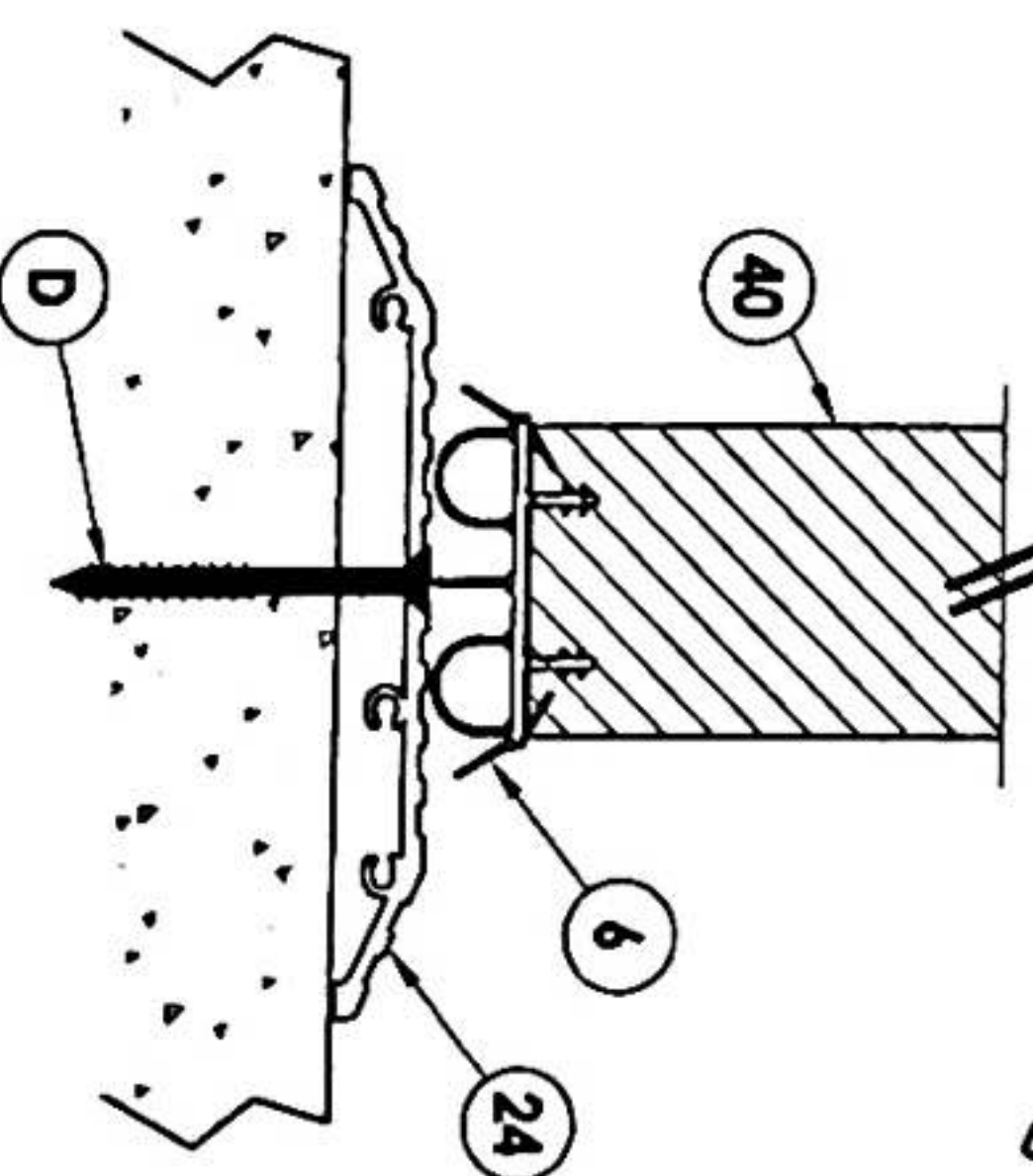
1 VERTICAL CROSS SECTION
Inswing shown (Outswing similar)
2X Buck Construction



2 VERTICAL CROSS SECTION
Inswing shown (Outswing similar)
1X Buck Construction

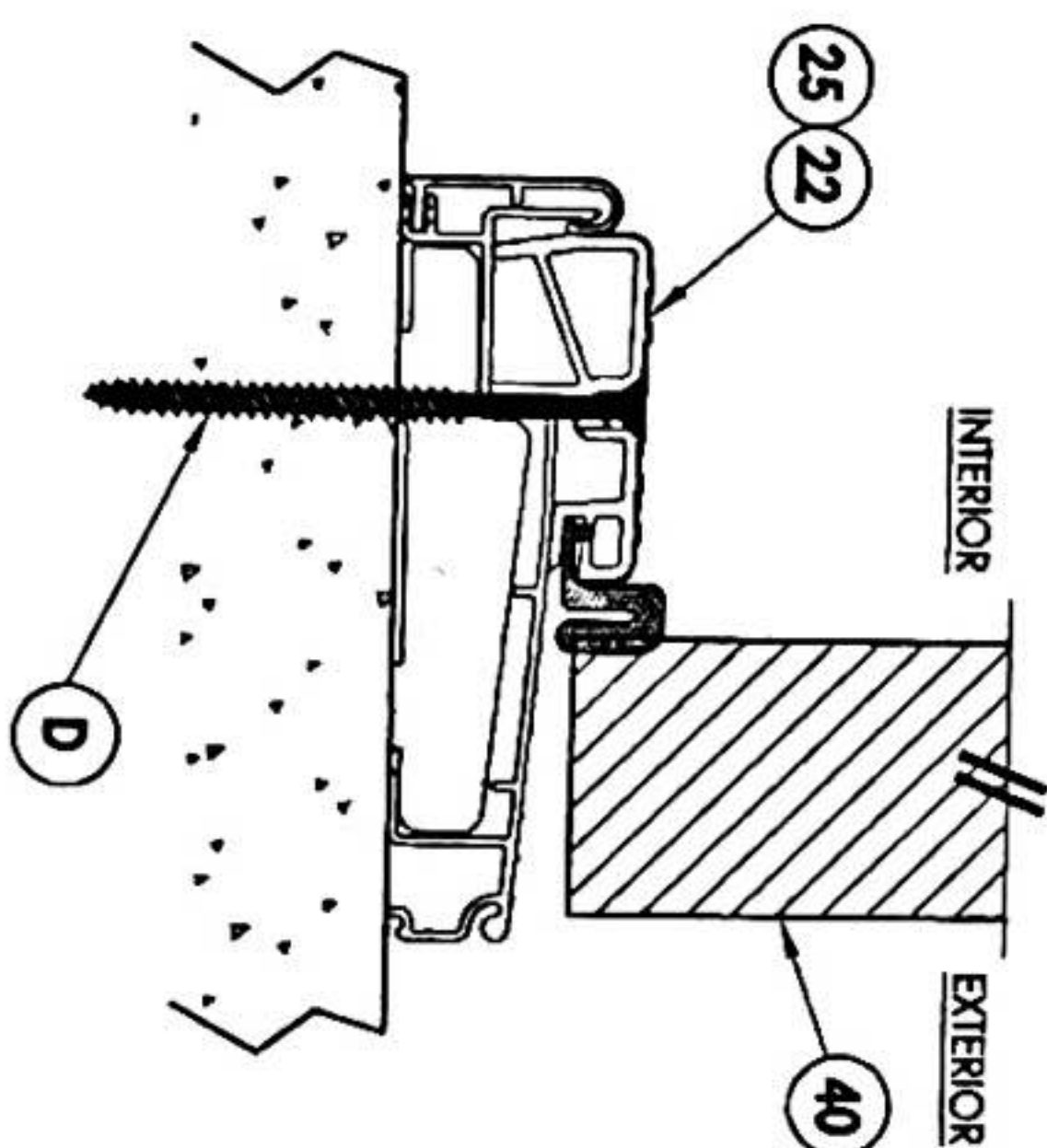


3 VERTICAL CROSS SECTION
Inswing shown (Outswing similar)
2X Buck Construction

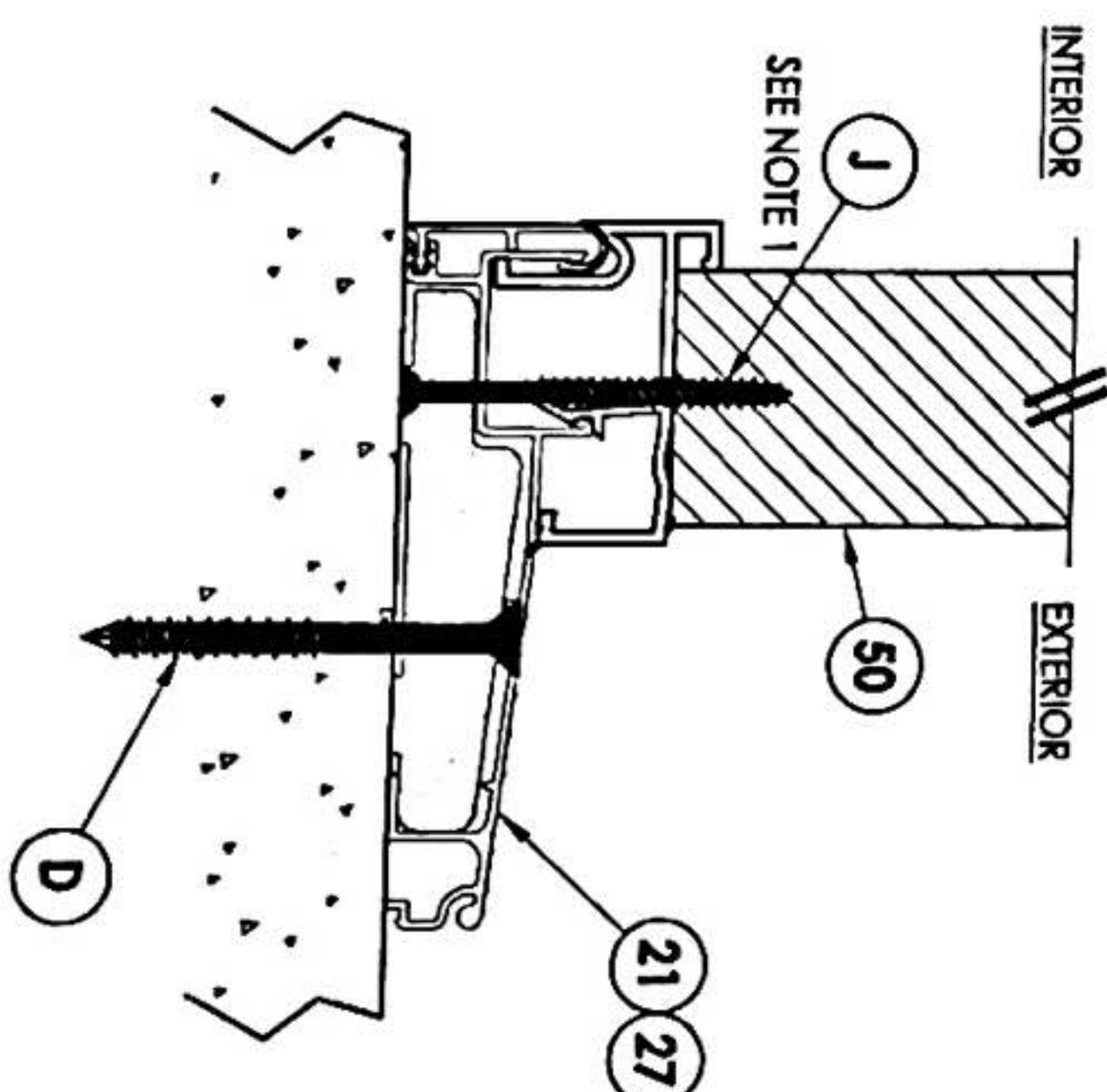


8 VERTICAL CROSS SECTION
ADA Sill

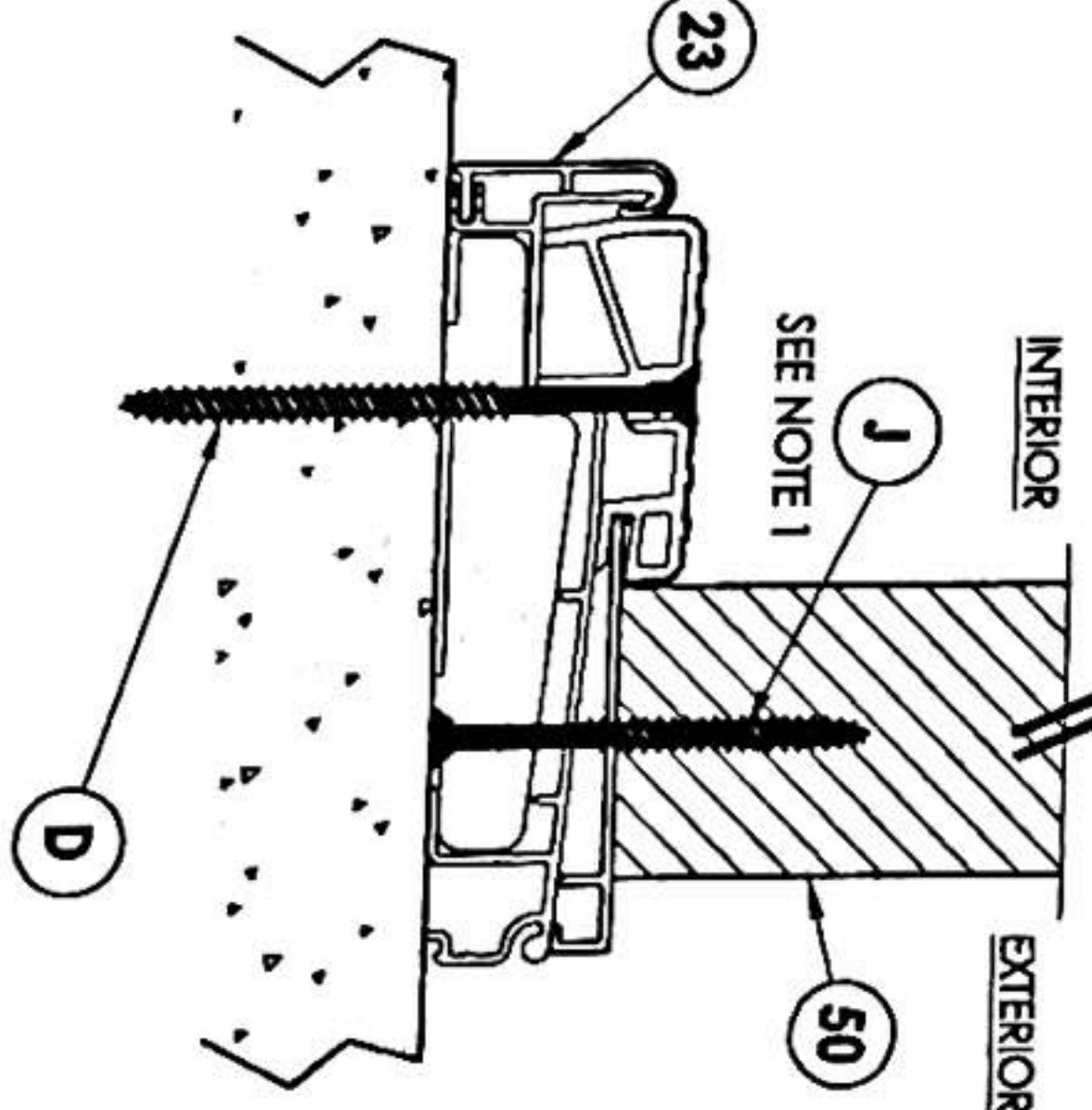
4 VERTICAL CROSS SECTION
Inswing sill



5 VERTICAL CROSS SECTION
Outswing sill



6 VERTICAL CROSS SECTION
Inswing sill



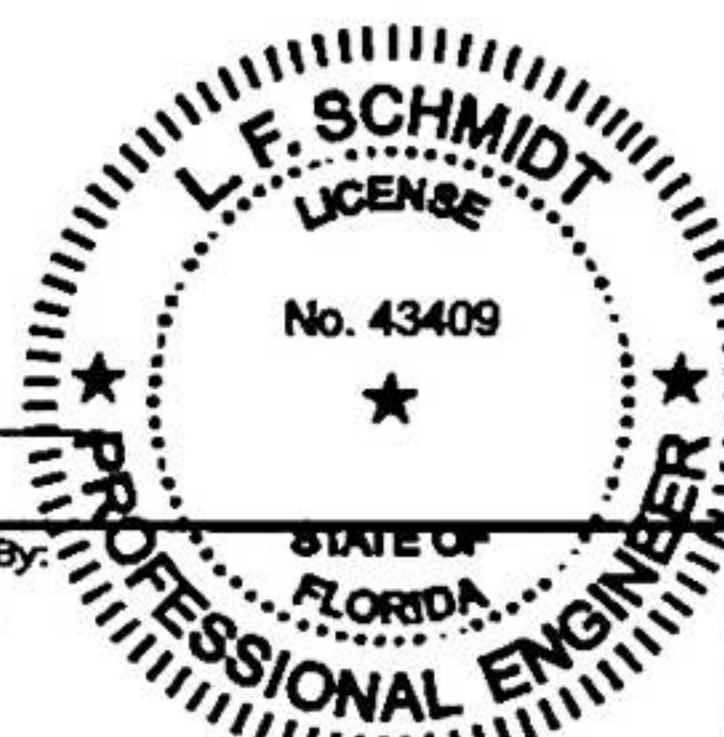
7 VERTICAL CROSS SECTION
Inswing sill

PRODUCT:
PLASTPRO
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS

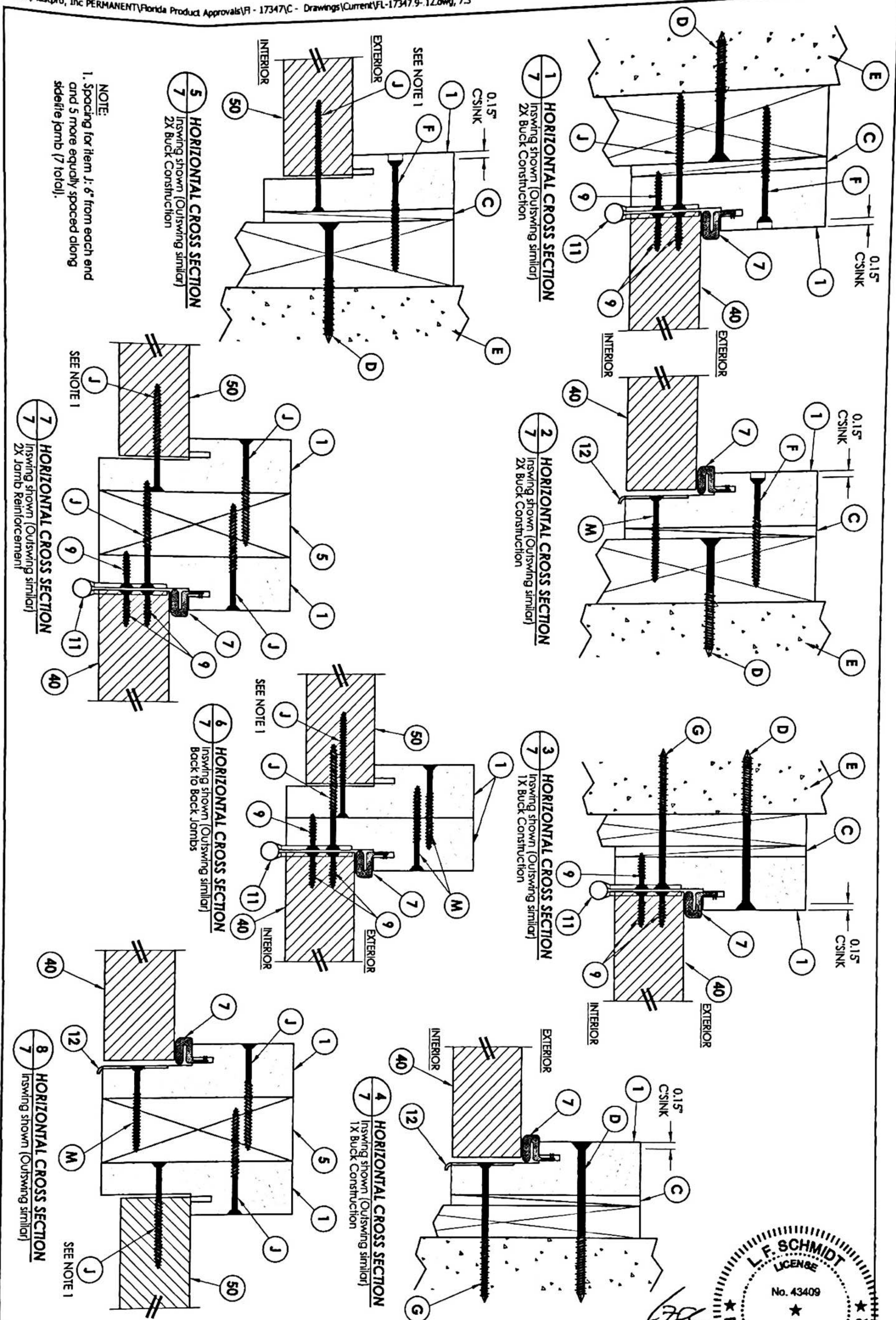
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

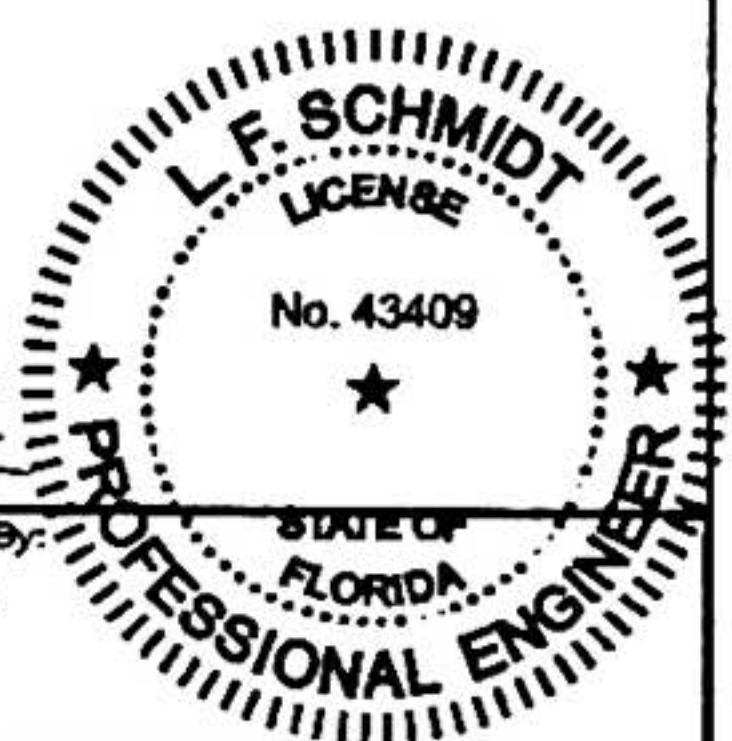


NO.	DATE	REVISIONS	BY
1	04/14/15	UPDATE TO 5TH ED. (2014) FBC	JK

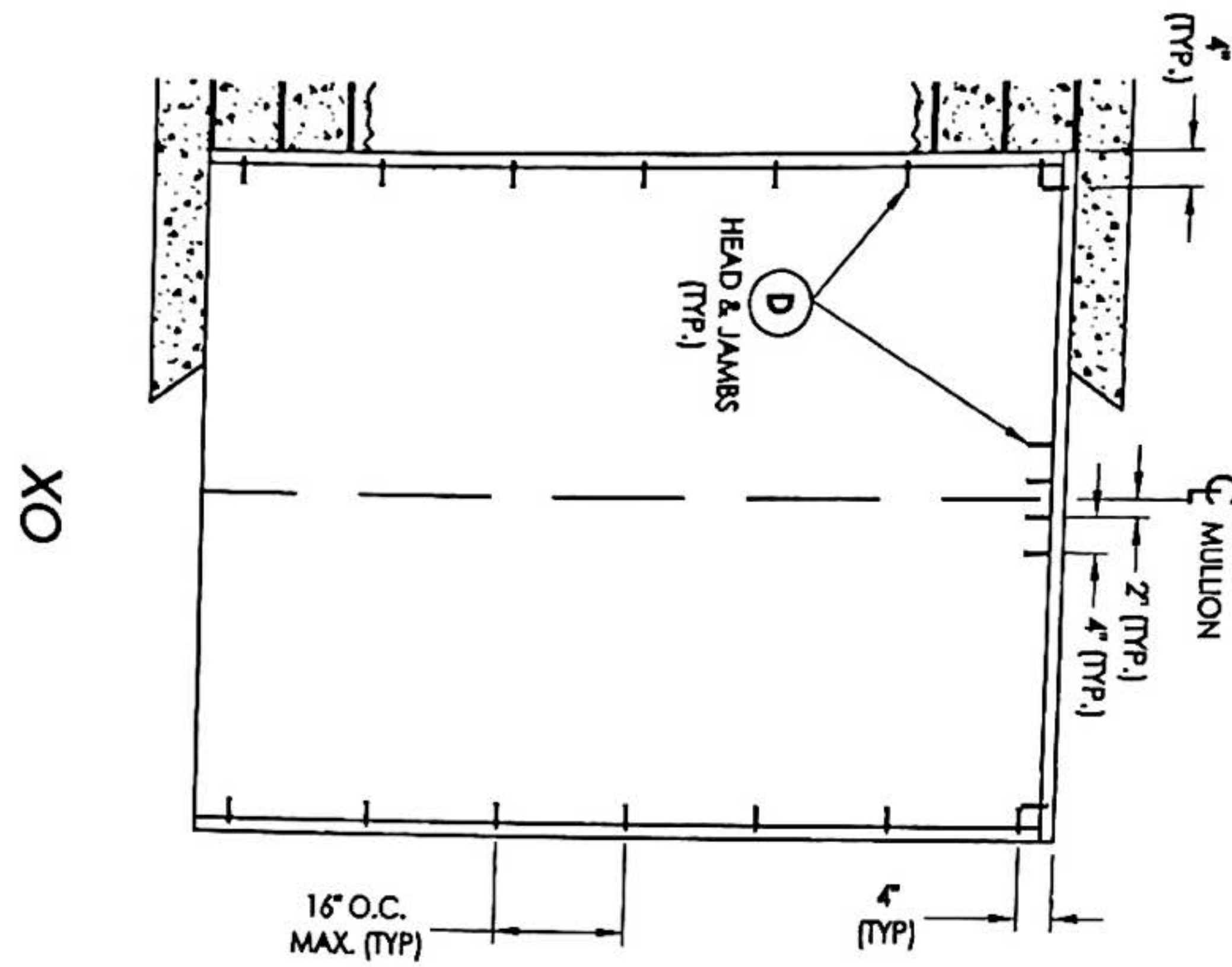
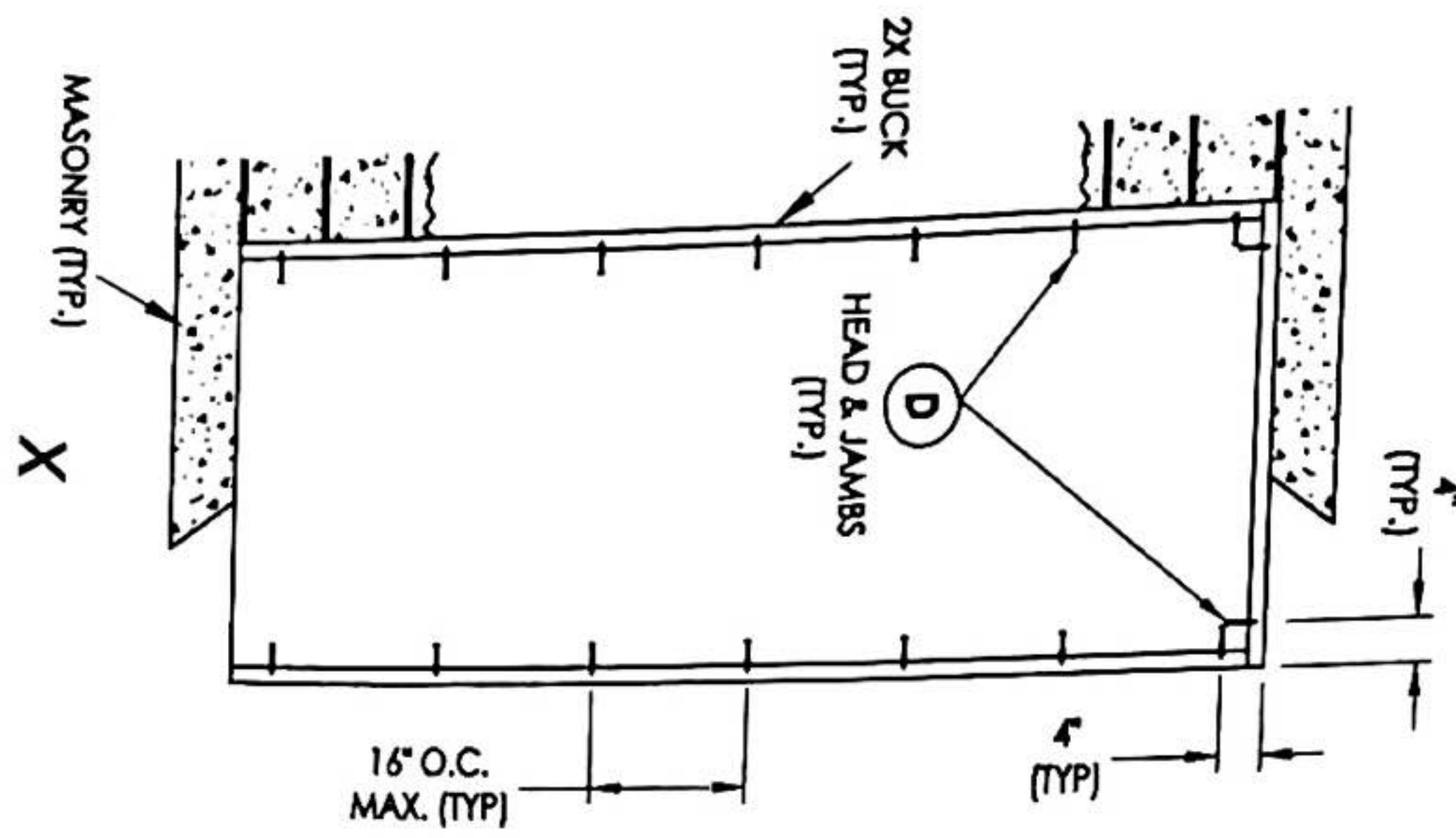
DATE: 10/8/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17347.11
SHEET 6 of 10



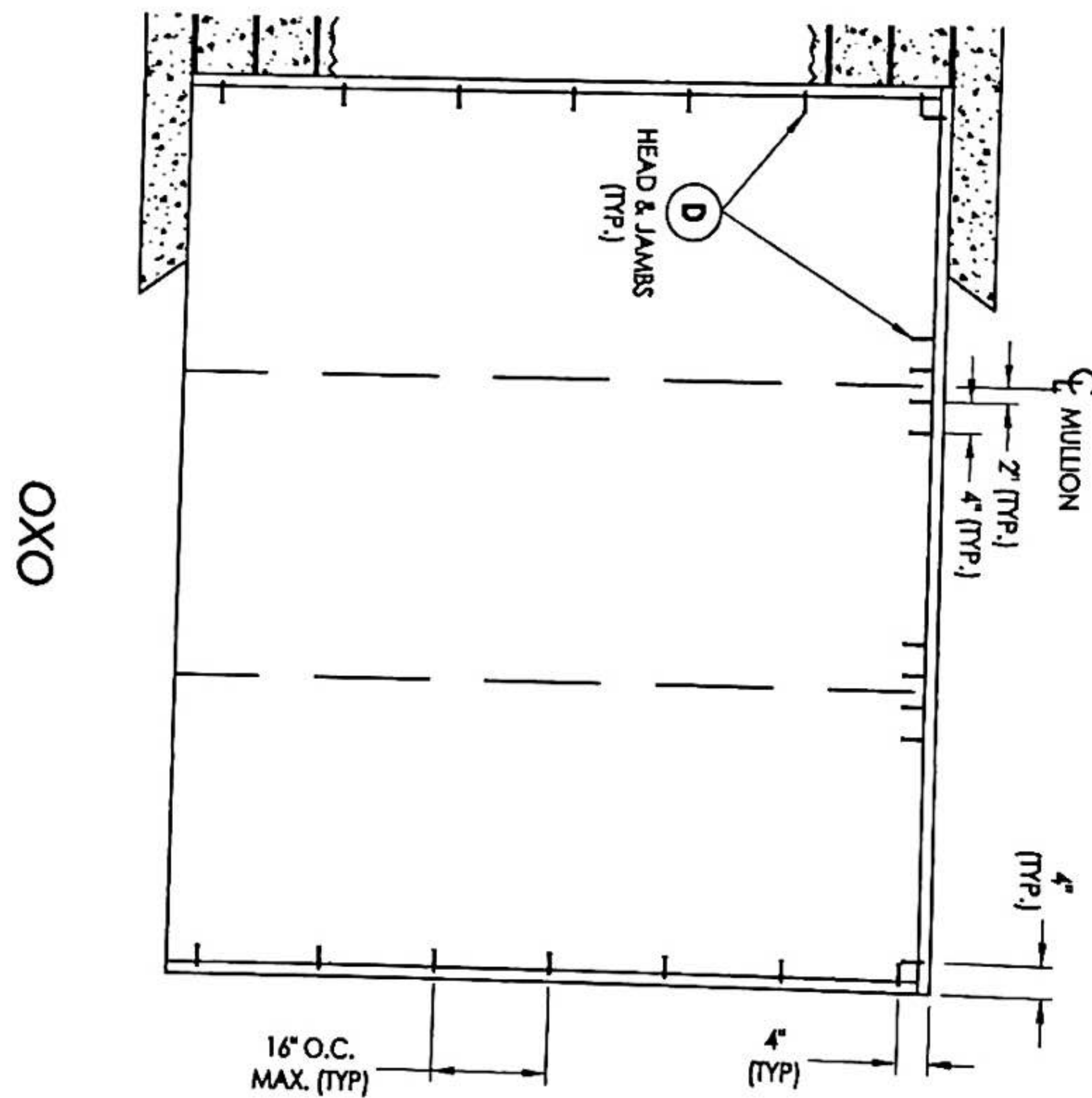
PRODUCT: PLASTPRO FIBERGLASS DOOR		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS		REVISIONS	
NO.	DATE	DESCRIPTION	BY
1	04/14/15	UPDATE TO 5TH ED. (2014) FBC	JK
DATE: 10/8/14 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-17347.11 SHEET 7 OF 10			



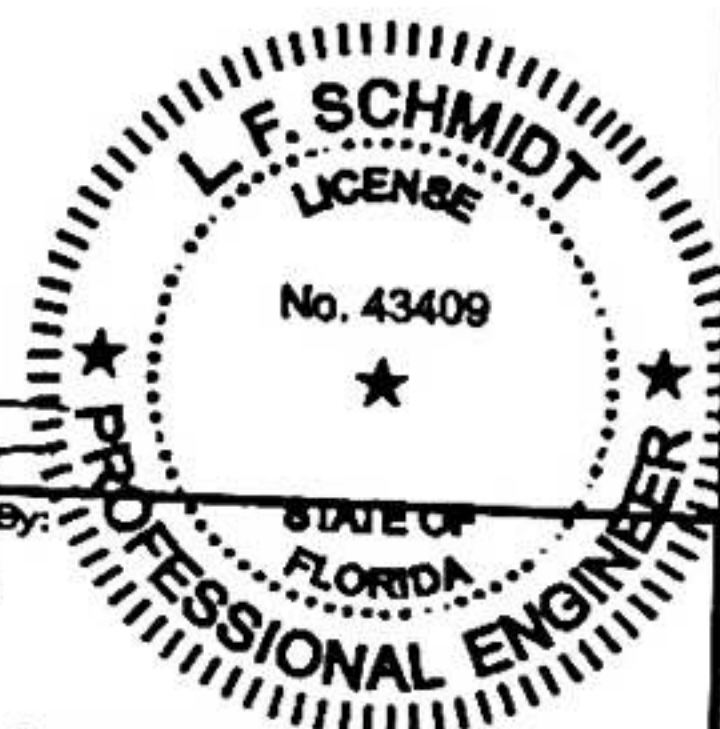
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813



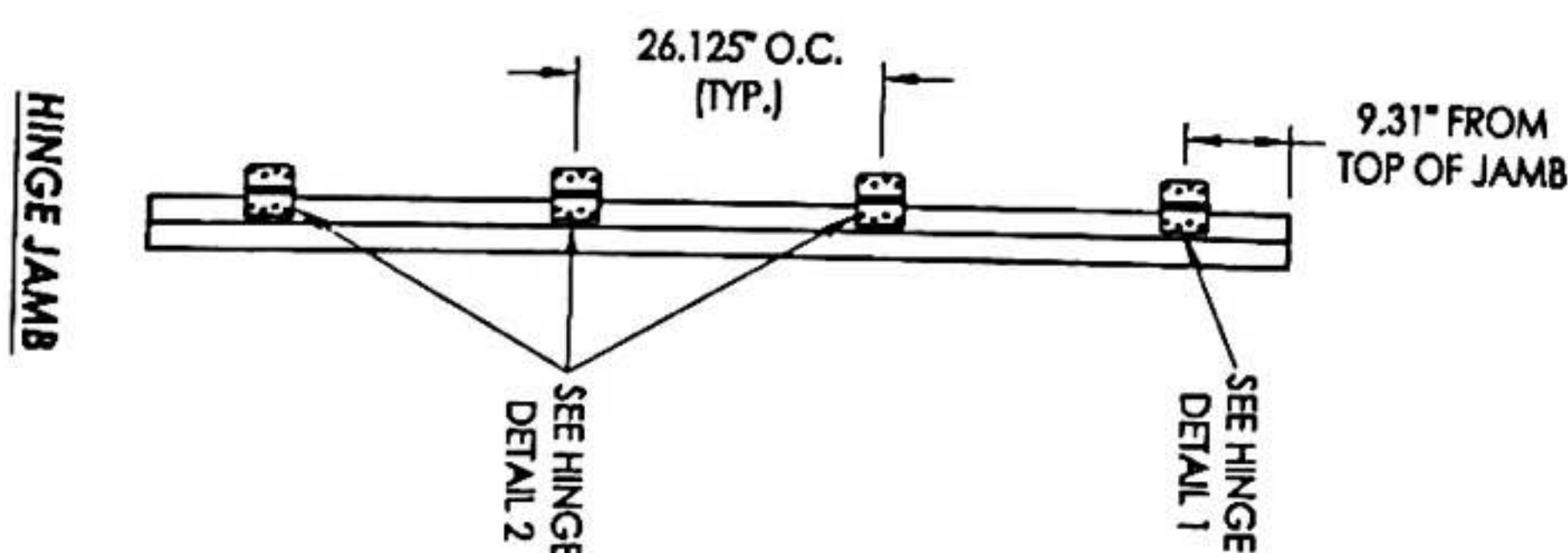
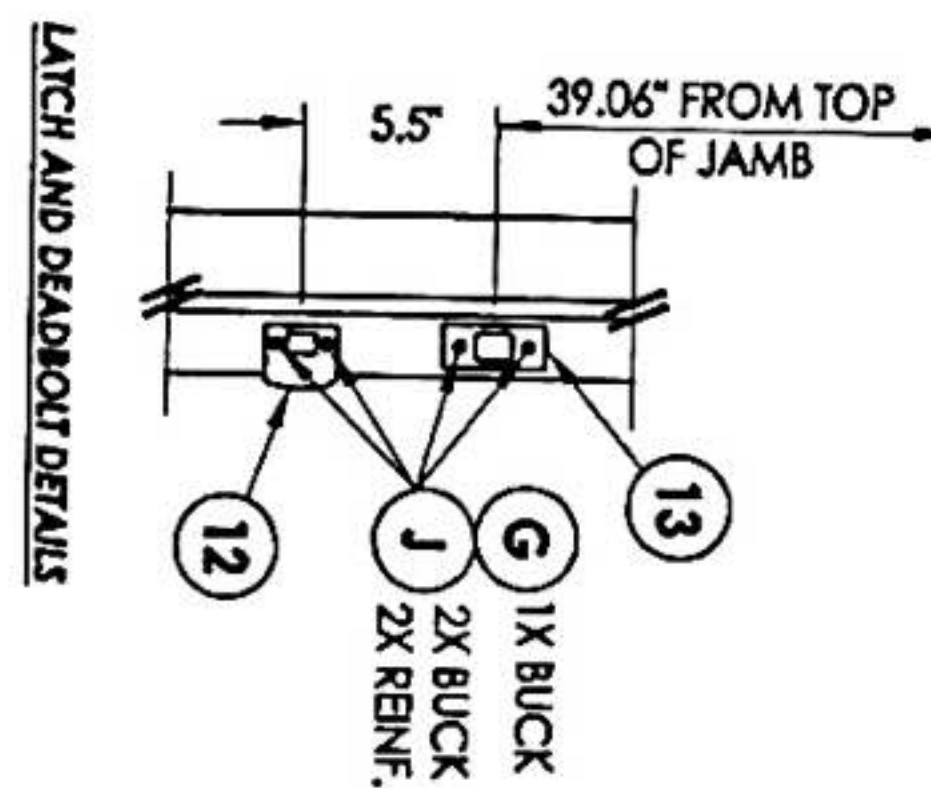
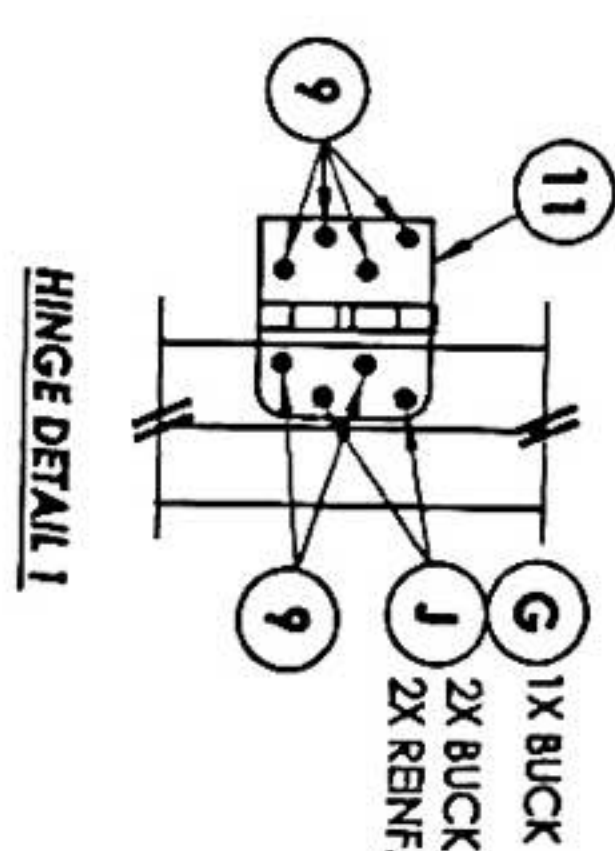
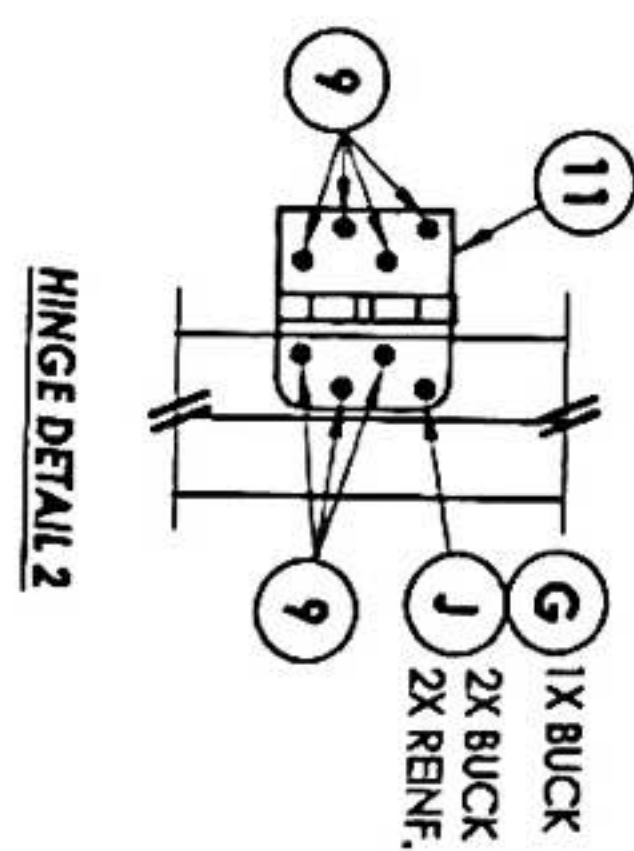
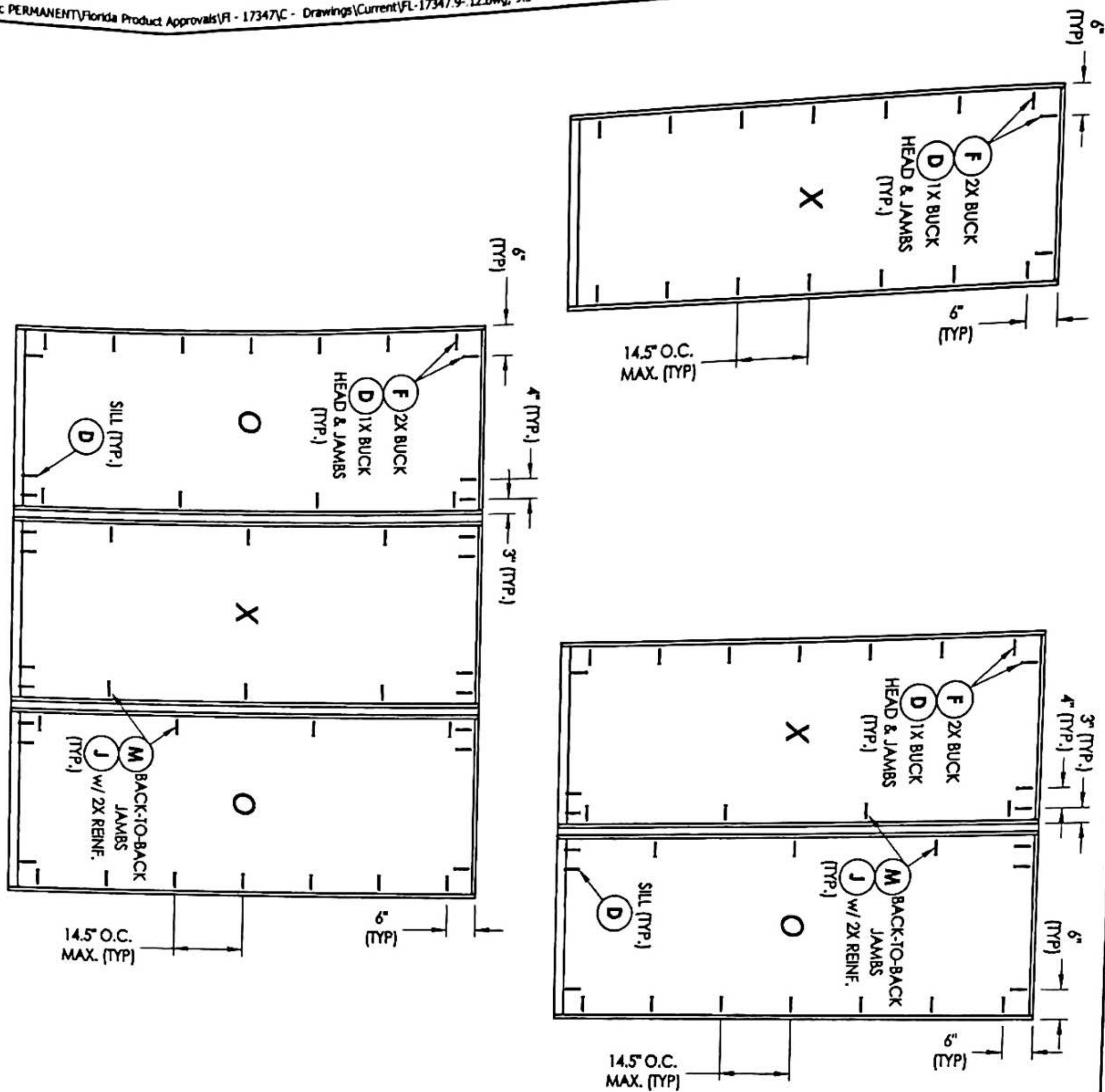
2X BUCK ANCHORING



DATE: 10/8/14		SCALE: N.T.S.		DWG. BY: JK		CHK. BY: LFS		DRAWING NO.: FL-17347.11		SHEET 8 OF 10	
NO.		DATE		DESCRIPTION		BY		DATE		REVISIONS	
1		04/14/15		UPDATE TO 5TH ED. (2014) FBC		JK					
PRODUCT:				PLASTPRO FIBERGLASS DOOR				PART OR ASSEMBLY:			
PART OR ASSEMBLY:				BUCK ANCHORING				Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409 BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE C.A. No. 9813			



FRAME ANCHORING



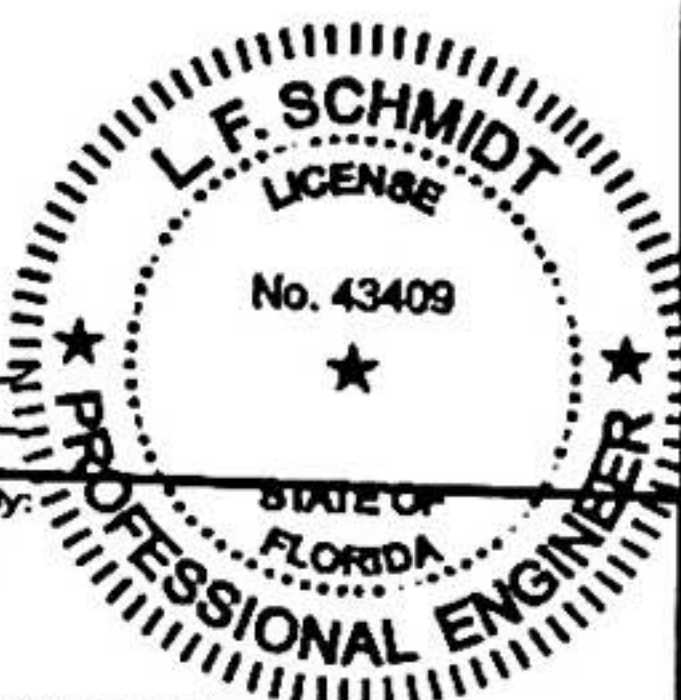
NO.	DATE	REVISIONS	BY
1	04/14/15	UPDATE TO 5TH ED. (2014) FBC	JK

PRODUCT:
PLASTPRO
FIBERGLASS DOOR

PART OR ASSEMBLY:
FRAME ANCHORING
& HARDWARE DETAILS

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813



BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	WOOD
D	1/4" PFH CONCRETE SCREW (1-1/4" MIN. EMB.)	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMB.)	STEEL
G	3/16" PFH CONCRETE SCREW (1-1/4" MIN. EMB.)	STEEL
J	#10 X 2-1/2" PFH WOOD SCREW	STEEL
M	#10 X 2" PFH WOOD SCREW	STEEL
1	POLY FIBER JAMB	COMP.
5	2X REINFORCEMENT (G >= 0.55)	WOOD
6	DOOR SWEEP	PVC
7	WEATHERSTRIP (ENDURA FORCE 5)	FOAM
9	#9 X 3/4" PFH WOOD SCREW	STEEL
11	4" X 4" HINGE	STEEL
12	LATCH STRIKE PLATE	STEEL
13	DEADBOLT STRIKE PLATE	STEEL
20	INSWING THRESHOLD	ALUM/COMP
21	INSWING THRESHOLD w/ SIDEITE ADAPTER	ALUM/COMP
22	OUTSWING THRESHOLD	ALUM/COMP
23	OUTSWING THRESHOLD w/ SIDEITE ADAPTER	ALUM/COMP
24	ADA THRESHOLD	ALUM
25	OUTSWING THRESHOLD	ALUM/WOOD
26	INSWING THRESHOLD	ALUM/WOOD
27	INSWING THRESHOLD w/ SIDEITE ADAPTER	ALUM/WOOD
40	DOOR PANEL	-
50	SIDEITE PANEL	-

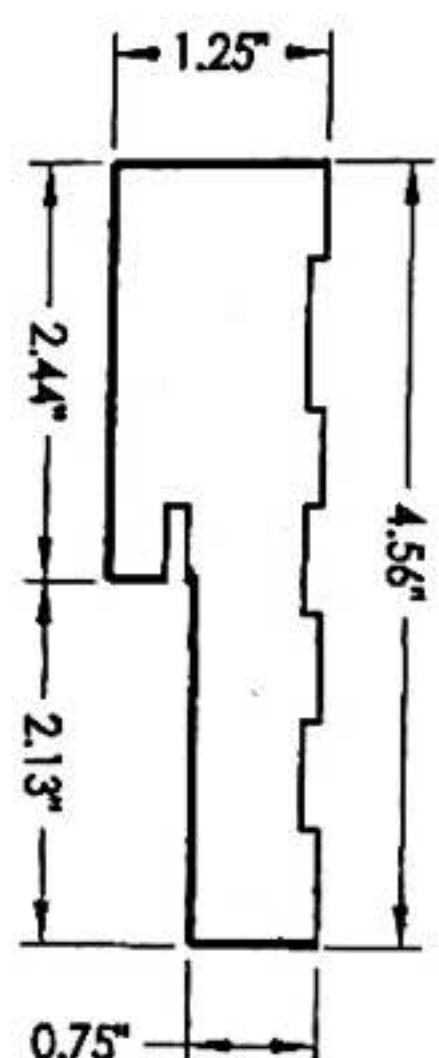
CONCRETE ANCHOR NOTES:

1. Concrete anchor locations of the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints; additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
3. Concrete anchor table:

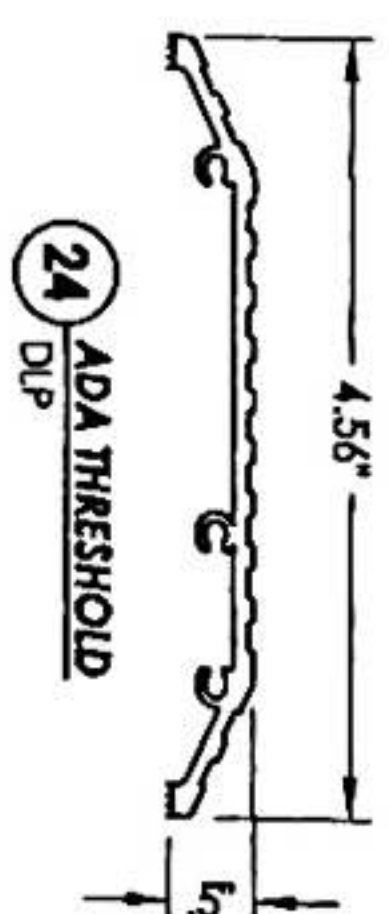
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
TM BUILDUP	3/16"	1-1/4"	3"	1-1/2"
TAPCON®	1/4"	1-1/4"	2"	4"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

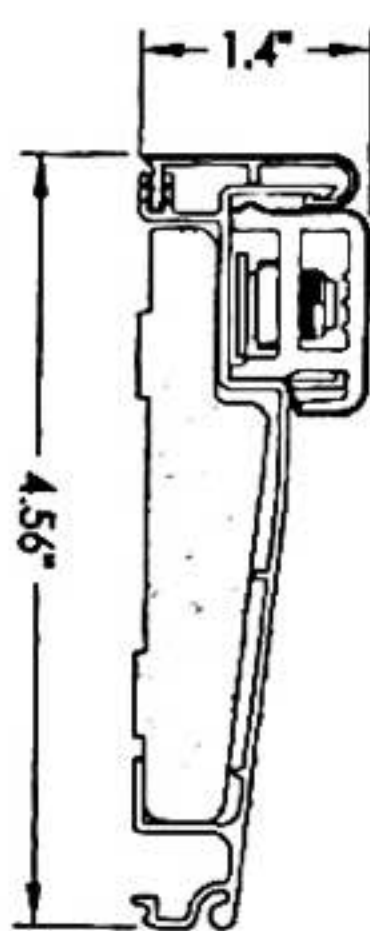
1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



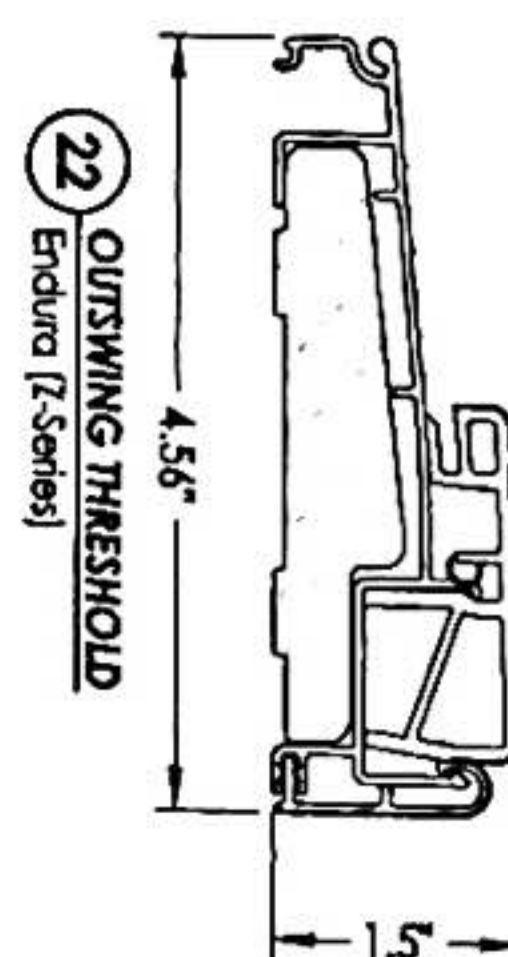
1 POLY FIBER JAMB



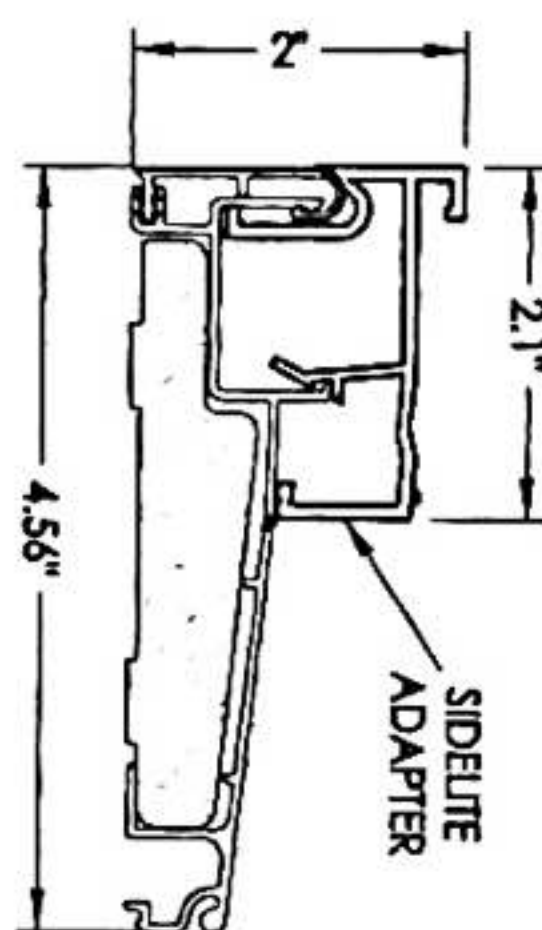
24 ADA THRESHOLD



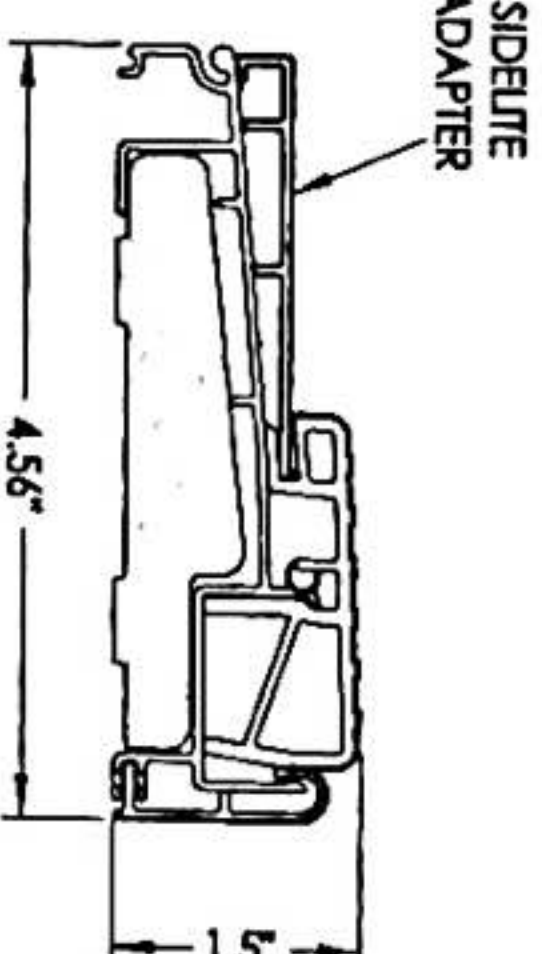
20 INSWING THRESHOLD



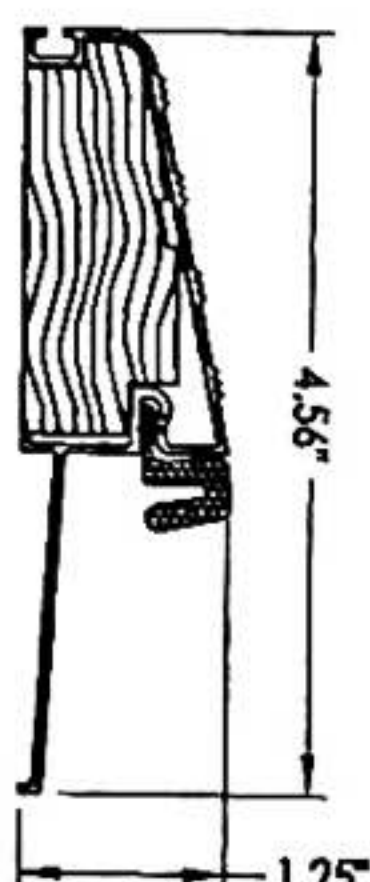
22 OUTSWING THRESHOLD



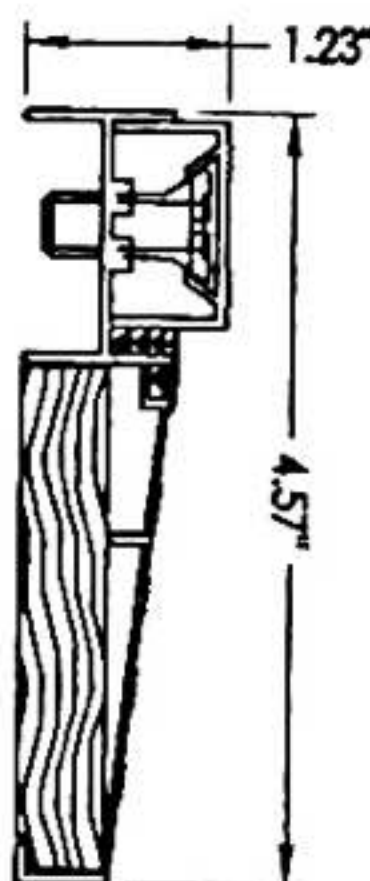
21 INSWING THRESHOLD w/ SIDEITE ADAPTER



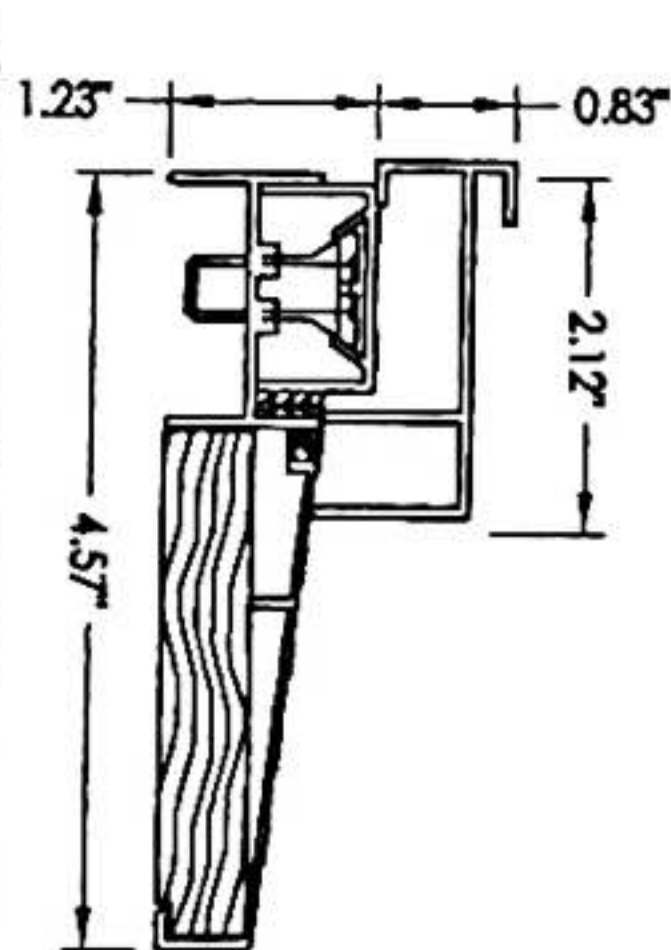
23 OUTSWING THRESHOLD w/ SIDEITE ADAPTER



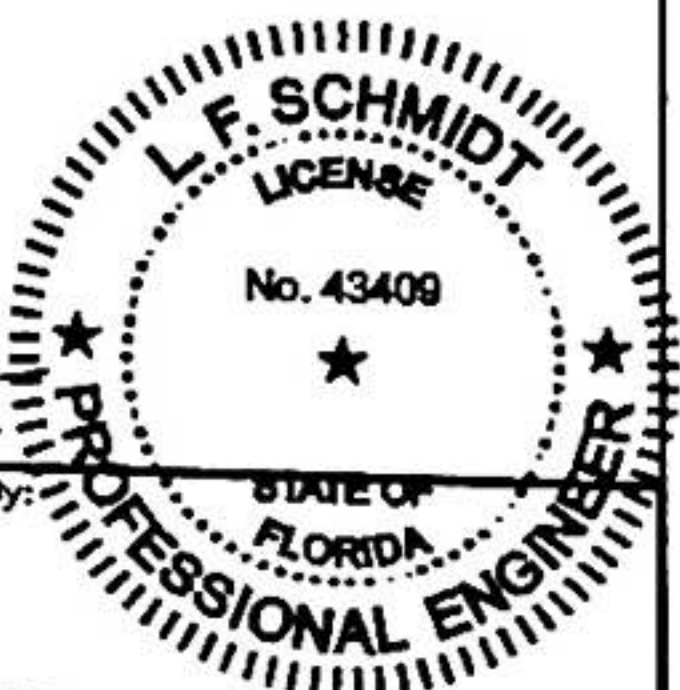
25 OUTSWING THRESHOLD



26 INSWING THRESHOLD



27 INSWING THRESHOLD w/ SIDEITE ADAPTER



Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT:
PLASTPRO FIBERGLASS DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS & COMPONENTS

NO.	DATE	REVISIONS	BY
1	04/14/13	UPDATE TO 5TH ED. (2014) FBC	JK

DATE:	10/8/14
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-17347.11
SHEET:	10 OF 10

your age book
2-91

FL# 14170.8

5. THE CONSTRUCTION SHOWN ON THIS DRAWING ONLY ILLUSTRATES METHODS FOR ATTACHING THE DOOR AND WOOD MOUNTING ALONG TO THE BUILDING. THE DECEASED DIMENSIONS/ASPECT RATIO IS RECOMMENDED FOR THE DESIGNER. THE BUILDING STRUCTURE AND ATTACHMENT POINTS ARE SUFFICIENT TO WITHSTAND THE LOADS APPLIED BY THE DOOR AND WOOD MOUNTING. 6. FROM THE VERTICAL MOUNTING JAMB ONLY, UNDER MINIMUM JAMB THAT PROVIDED BY THE WORK DIVISION OF A 256 (456-125) MAY BE SUBSTITUTED AS LONG AS THREE CONDITIONS ARE MET:

A) NO STICKY IS CLOSER THAN 9/16" TO THE DOOR.

B) NO GORE IS CLOSER THAN 4" FROM THE GORE.

C) THE DOOR JOINTERS MUST REST ON THE WOOD WITH NO DISTURBANCE.

7. ADDITIONAL WOOD MOUNTING JAMB FASTENING

W/STANDARD ONE (1) FASTENERS PER THE SPACING GIVEN ON TABLE 1.

WOOD: ONE (1) FASTENERS PER THE SPACING GIVEN ON TABLE 1.

8. DISCUSS THIS-16) MAY BE USED AS AN ALTERNATIVE TO THIS DOCUMENT.

SEE LAST. WOOD JUNG AND 249 MM. WOOD HEADER AT
ON CORRELL COLLAM.

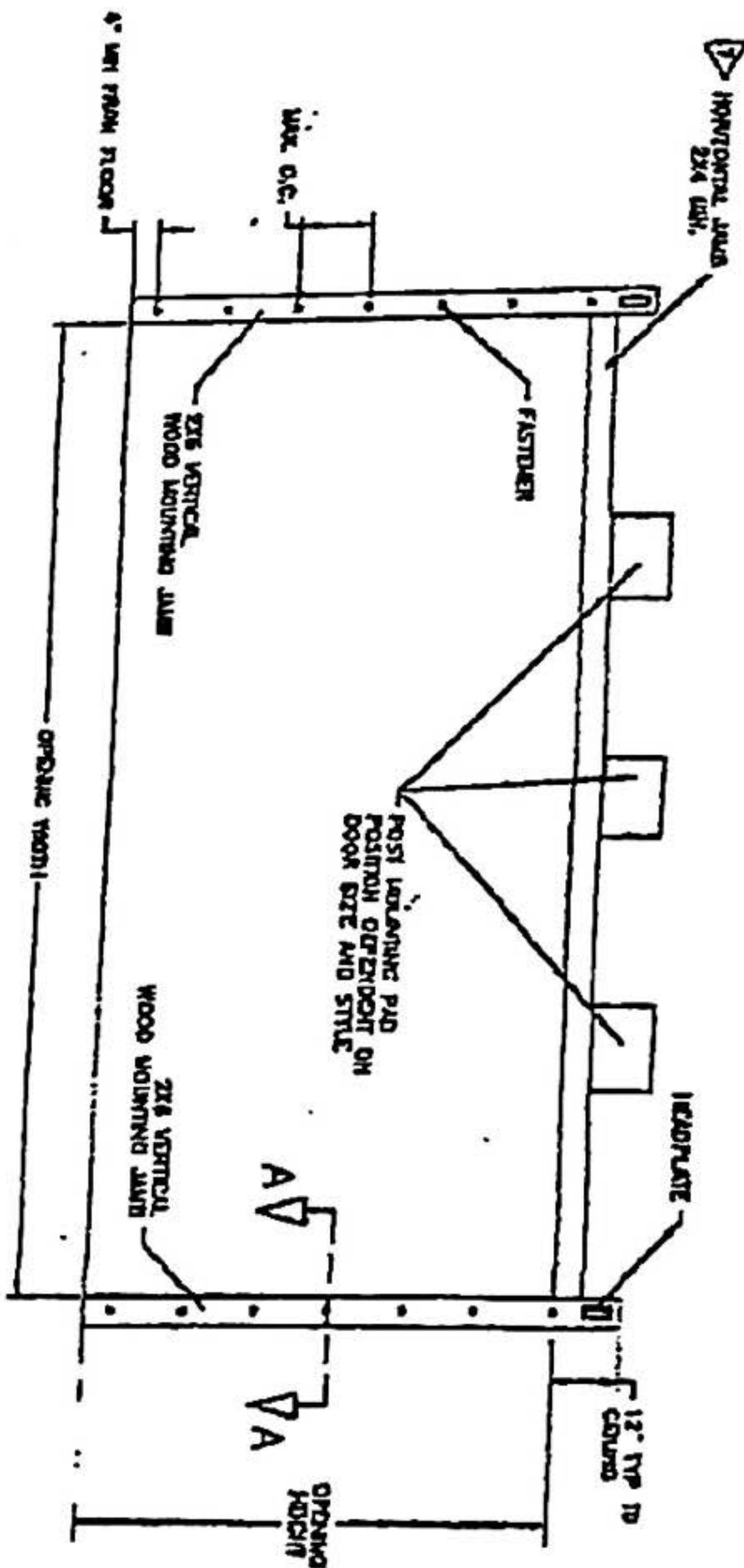
JAMB REQUIREMENTS

VERTICAL JAMB IS SUPPORTING STRUCTURE ATTACHMENT
NOT TO BE USED FOR ATTACHMENT OF THICK DIVIDERS TO JAMB VERTICAL JAMB IS SUPPORTING STRUCTURE ATTACHMENT

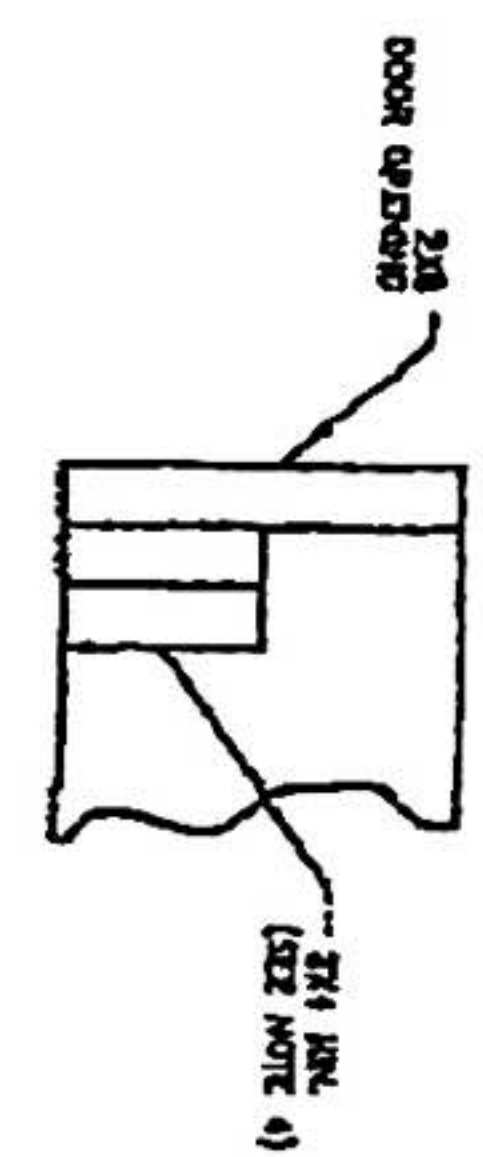
1

[illegible]

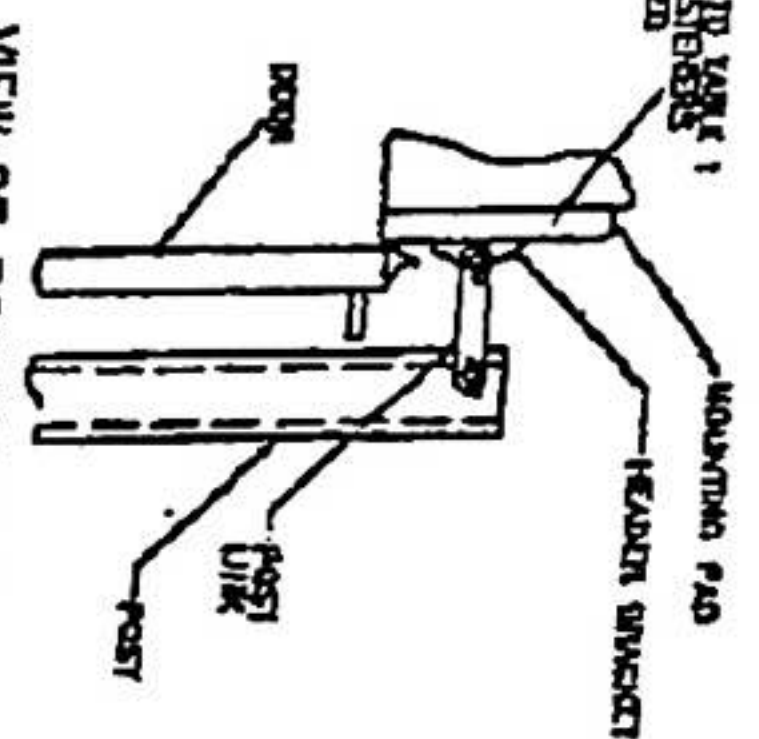
... AND BE ISSUED AS SPECIFIED BY THE PORTS DOLLING AND ANCHORAGE STATUS VESSEL MANUAL.



STANDARD A-A
(ALTERNATE JOINT CONSTRUCTION FOR WOOD TRAILER AXLES)
(MAX +150 LBS/T LOAD)
(USE SUBJECT TO NOTE 8)



VIFY OF POST MOUNTING

[illegible]

170 Doors

FL 15216-R1
22692-R1

TRINITY ERD

EXTERIOR RESEARCH & DESIGN, LLC
Certificate of Authorization #9503
353 CHRISTIAN STREET, UNIT #13
OXFORD, CT 06478
PHONE: (203) 262-9245
FAX: (203) 262-9243

EVALUATION REPORT

Interwrap, Inc.
32923 Mission Way
Mission, BC V2V-6E4
Canada

Evaluation Report #0510.02.12-R2
FL15216-R2
Date of Issuance: 02/17/2012
Revision 2: 04/27/2015

SCOPE:

This Evaluation Report is issued under Rule 61G20-3 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code and Florida Building Code, Residential Volume. The products described herein have been evaluated for compliance with the 5th Edition (2014) Florida Building Code sections noted herein.

DESCRIPTION: RhinoRoof Underlayments

LABELING: Labeling shall be in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 3.

Prepared by:

Robert J.M. Nieminen, P.E.
Florida Registration No. 59166, Florida DCA ANE1983



The electronic seal appearing was authorized by Robert Nieminen, P.E. on 04/27/2015. This does not serve as an electronically signed document. Signed, sealed documents have been transmitted to the Product Approval Admins. later and in the named client.

CERTIFICATION OF INDEPENDENCE

1. Trinity|ERD does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. Trinity|ERD is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither Trinity|ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

ROOFING COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing

Sub-Category: Underlayment

Compliance Statement: RhinoRoof Underlayments, as produced by Interwrap, Inc., has demonstrated compliance with the intent of following sections of the Florida Building Code through testing in accordance with applicable sections of the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

Section	Properties	Standard	Year
1507.2.3, 1507.5.3, T1507.8, 1507.8.3, 1507.9.3, 1507.9.5	Unrolling, Breaking Strength, Pliability, Loss on Heating	ASTM D226	2006
1507.2.3, 1507.5.3, 1507.8.3, 1507.9.3	Unrolling, Tear Strength, Pliability, Loss on Heating, Liquid Water Transmission, Breaking Strength, Dimensional Stability	ASTM D4869	2005

3. REFERENCES:

Entity	Examination	Reference	Date
ITS (TST1509)	Physical Properties	100539395COQ-006	10/27/2011
ITS (TST1509)	Physical Properties	100539395COQ-002	10/27/2011
ITS (TST1509)	Physical Properties	100539395COQ-006	03/14/2014
ITS (QUA1673)	Quality Control	Inspection Report	11/17/2014

4. PRODUCT DESCRIPTION:

- 4.1 RhinoRoof U20 is a multilayered polymer woven coated synthetic roof underlayment intended as an alternate to ASTM D226, Type I or Type II felt or D4869 Type II felt. RhinoRoof Underlayment is available in 42-inch wide rolls, and can be produced in various other sizes.

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither Trinity|ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in the HVHZ.
- 5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory or test report from accredited testing agency for fire ratings of this product.
- 5.4 RhinoRoof Underlayments may be used with any prepared roof cover where the product is specifically referenced within FBC approval documents. If not listed, a request may be made to the AHJ for approval based on this evaluation combined with supporting data for the prepared roof covering.
- 5.5 Allowable roof covers applied atop RhinoRoof Underlayments are follows:

TABLE 1: ROOF COVER OPTIONS						
Underlayment	Asphalt Shingles	Nail-On Tile	Foam-On Tile	Metal	Wood Shakes & Shingles	Slate or Simulated Slate
RhinoRoof U20	Yes	No	No	Yes	Yes	No

5.6 Exposure Limitations:

- 5.6.1 RhinoRoof Underlayment shall not be left exposed for longer than 30-days after installation

6. INSTALLATION:

- 6.1 RhinoRoof Underlayments shall be installed in accordance with Interwrap, Inc. published installation instructions subject to the Limitations set forth in Section 5 herein and the specifics noted below.
- 6.2 Install RhinoRoof Underlayments in compliance with manufacturer's published installation instructions and the requirements for ASTM D226, Type I or II or D4869, Type II underlayments in FBC Sections 1507 for the type of prepared roof covering to be installed.

6.3 Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application.

6.4 RhinoRoof U20:

6.4.1 Fasteners:

For exposure $\leq$ 24 hours, corrosion resistant fasteners may be 1-inch roofing nails with a 3/8-inch diameter head, or those noted in 6.4.2. The use of staples is prohibited.

For exposure $>$ 24 hours up to maximum 30 days, corrosion resistant fasteners shall be minimum 1-inch diameter plastic or metal cap nails or FBC HVHZ nails & 1-5/8" diameter tin caps (with the rough edge facing up). The use of staples is prohibited.

6.4.2 Single Layer; Roof Slope $>$ 4:12:

End (vertical) laps shall be minimum 6-inches and side (horizontal) laps shall be minimum 4-inches. Refer to Interwrap, Inc. recommendations for alternate lap configurations and/or the use of sealant under certain conditions.

For exposure $\leq$ 24 hours, use of every-other fastening location printed on the surface is acceptable. For exposure $>$ 24 hours up to maximum 30-days, use of every fastening location printed on the surface is required.

When batten systems are to be installed atop the underlayment, the underlayment need only be preliminarily attached pending attachment of the battens on the same day. Battens shall not be positioned over cap nails. If this occurs, remove the cap nail and patch the hole in accordance with Interwrap published instructions.

6.4.3 Double Layer; 2:12 $<$ Roof Slope $<$ 4:12:

End (vertical) laps shall be minimum 12-inches and side (horizontal) laps shall be minimum half-sheet-width plus 1-inch.

Double layer application; begin by fastening a half-width plus 1-inch starter strip along the eaves. Place a full-width sheet over the starter, completely overlapping the starter course. Continue as noted in 6.5, but maintaining minimum half-width plus 1-inch side (horizontal) laps, resulting in a double-layer application.

7. **BUILDING PERMIT REQUIREMENTS:**

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

8. **MANUFACTURING PLANTS:**

Contact the manufacturer or the named QA entity for information on plants covered under Rule 61G20-3 QA requirements.

9. **QUALITY ASSURANCE ENTITY:**

Intertek Testing Services NA Inc.-ETL/Warnock Hersey - QUA1673; (604) 520-3321

- END OF EVALUATION REPORT -

FL#13192-1-

Florida Product Approval

Cemplank® Lap Siding

- For use inside HVHZ:
 - Cemplank Lap Siding fastener types, fastening schedule, and installation shall be in accordance with the Miami-Dade County Florida NOA 15-0122.04. Consult the Cemplank product installation instructions on the follow pages for all other installation requirements.
- For use outside of HVHZ,
 - Cemplank Lap Siding fastener types, fastening schedule, and installation shall be in accordance with Engineering Evaluation Reports RIO-2553-15 or RIO-2557-15. Consult the Cemplank product installation instructions on the follow pages for all other installation requirements.



CEDAR · BEADED CEDAR · BEADED SMOOTH

FAILURE TO INSTALL AND FINISH THIS PRODUCT IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND THE MANUFACTURER'S WRITTEN APPLICATION INSTRUCTIONS MAY LEAD TO PERSONAL INJURY, PROPERTY DAMAGE, PERFORMANCE, VIOLATE LOCAL BUILDING CODES, AND VOID THE PRODUCT ONLY WARRANTY.

STORAGE & HANDLING:

Store flat and keep dry and covered prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry planks on edge. Protect edges and corners from breakage. The manufacturer is not responsible for damage caused by improper storage and handling of the product.



⚠ CUTTING INSTRUCTIONS

OUTDOORS

1. Position cutting station so that wind will blow dust away from user and others in working area.
2. Use one of the following methods:
 - a. Best: i. Score and snap
c. Shears (manual, electric or pneumatic)
 - b. Better: i. Dust reducing circular saw equipped with a Hardiblade™ saw blade and HEPA vacuum extraction
 - c. Good: i. Dust reducing circular saw with a Hardiblade saw blade (only use for low to moderate cutting)

INDOORS

1. Cut only using score and snap, or shears (manual, electric or pneumatic).
2. Position cutting station in well-ventilated area

- NEVER use a power saw indoors
- NEVER use a circular saw blade that does not carry the Hardiblade saw blade trademark
- NEVER dry sweep - Use wet suppression or HEPA Vacuum

Important Note: For maximum protection (lowest respirable dust production), the Manufacturer recommends always using "Best" level cutting methods where feasible.

NIOSH-approved respirators can be used in conjunction with above cutting practices to further reduce dust exposures. Additional exposure information is available at www.cemboardsiding.com to help you determine the most appropriate cutting method for your job requirements. If concern still exists about exposure levels or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact the Manufacturer for further information.

SD-112

GENERAL REQUIREMENTS:

- Cemplank® lap siding can be installed over braced wood or steel studs spaced a maximum of 24" o.c. or directly to minimum 7/16" thick OSB sheathing*. Irregularities in framing and sheathing can mirror through the finished application.
- Cemplank® lap siding can also be installed over foam insulation/sheathing up to 1" thick. When using foam insulation/sheathing, avoid over-driving nails (fasteners), which can result in dimpling of the siding due to the compressible nature of the foam insulation/sheathing. Extra caution is necessary if power-driven nails (fasteners) are used for attaching siding over foam insulation/sheathing.
- A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements. The manufacturer will assume no responsibility for water infiltration.
- Install Cemboard® products with a minimum 6" clearance to the finished grade on the exterior of the building or in accordance with local building codes if greater than 6" is required (fig. 3).
- Maintain a 1" - 2" clearance between Cemboard products and roofs, decks, patios, steps and driveways (figs. 4, 5 & 6).
- Maintain a 1/4" clearance between Cemboard products and horizontal flashing (fig. 7).
- Ensure gutters have end caps. Maintain a minimum 1" gap between end caps and siding & trim (fig. 8).
- Install kickout flashing at roof-wall junctions (fig. 9).
- Adjacent finished grade must slope away from the building in accordance with local building codes - typically a minimum of 6" in the first 10'.
- Do not install Cemboard products, such that they may remain in contact with standing water.
- Cemplank® lap siding must be installed on vertical wall applications only.
- DO NOT use stain on Cemboard products.

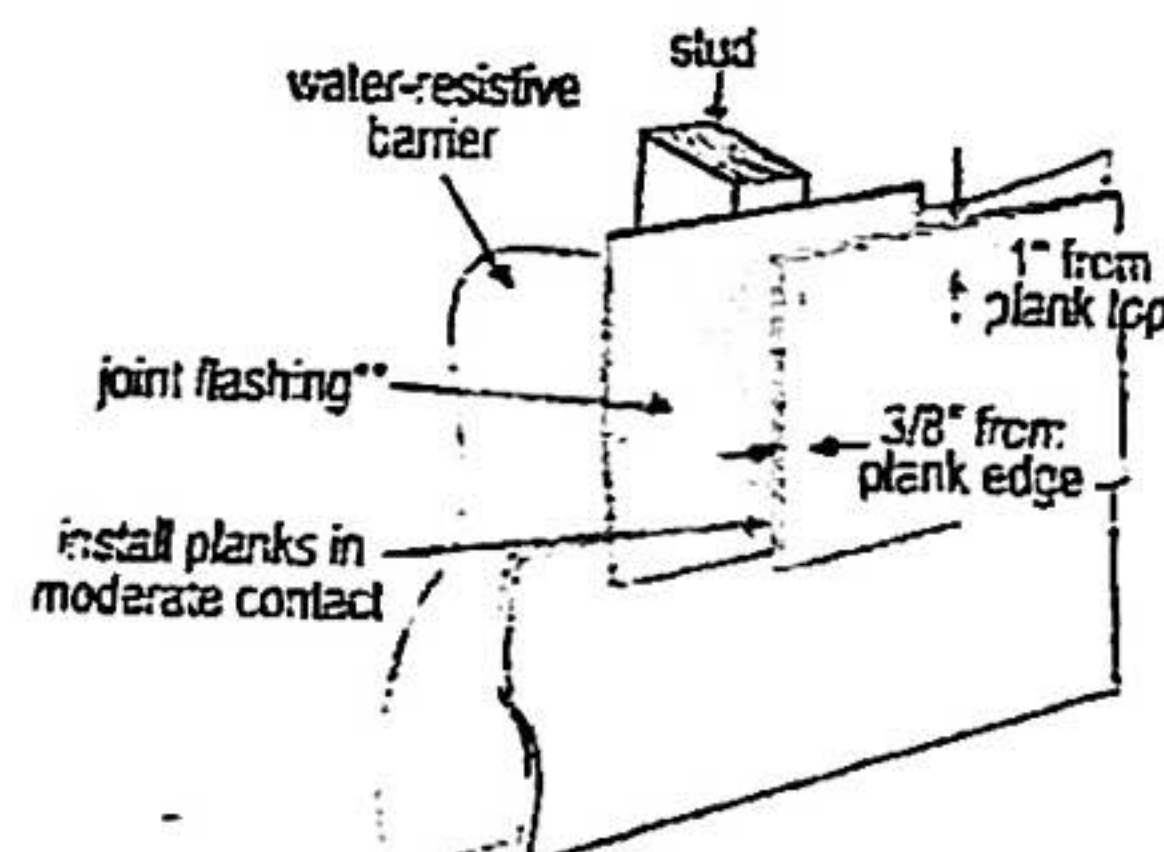
INSTALLATION

JOINT TREATMENT*

(Required for Factory Built Color Finish, Recommended for Primed product)

It is not recommended to use caulk at field butt joints.

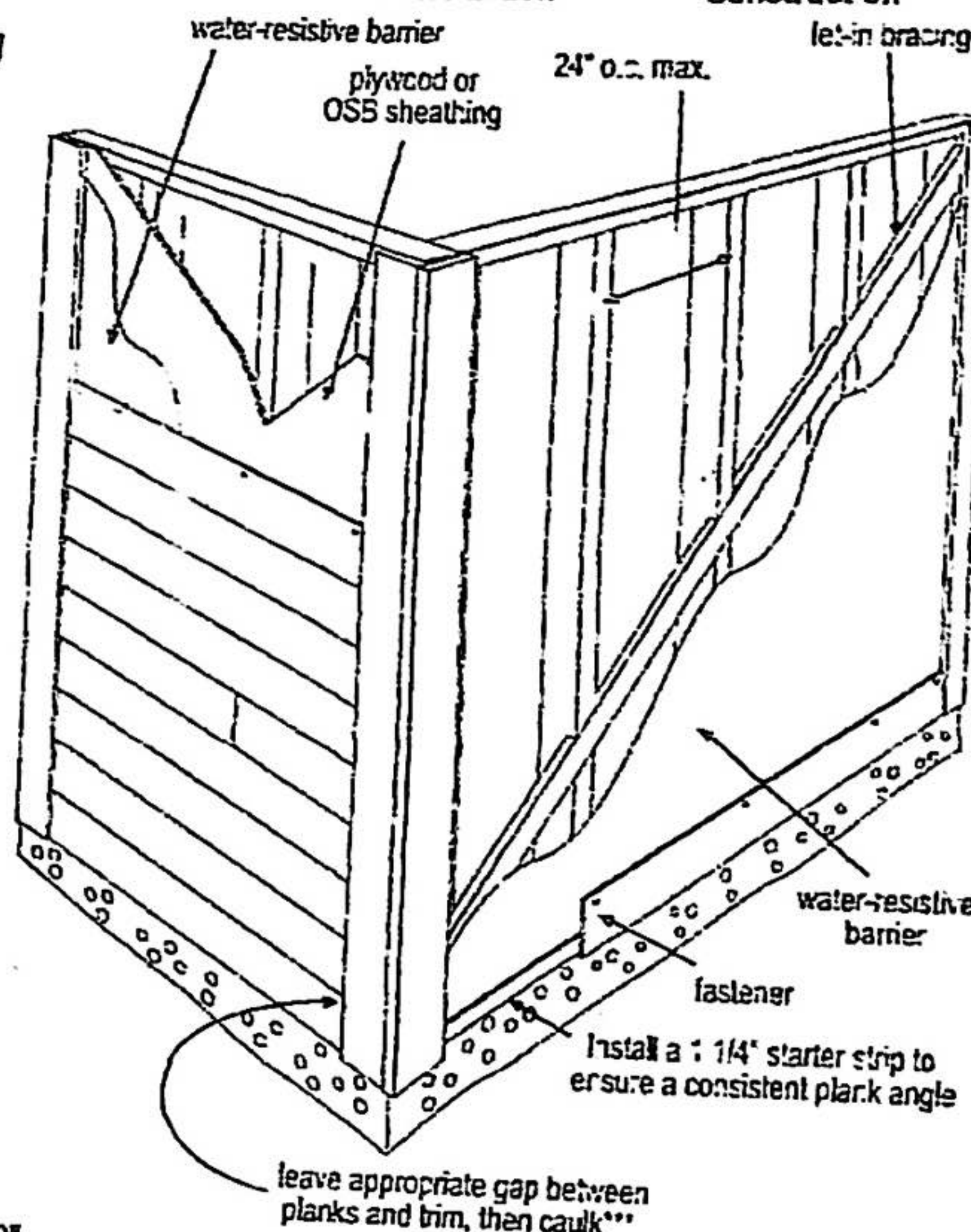
Figure 2



Install factory finished edges together at butt joints.

Figure 1 Double Wall Construction

Single Wall Construction

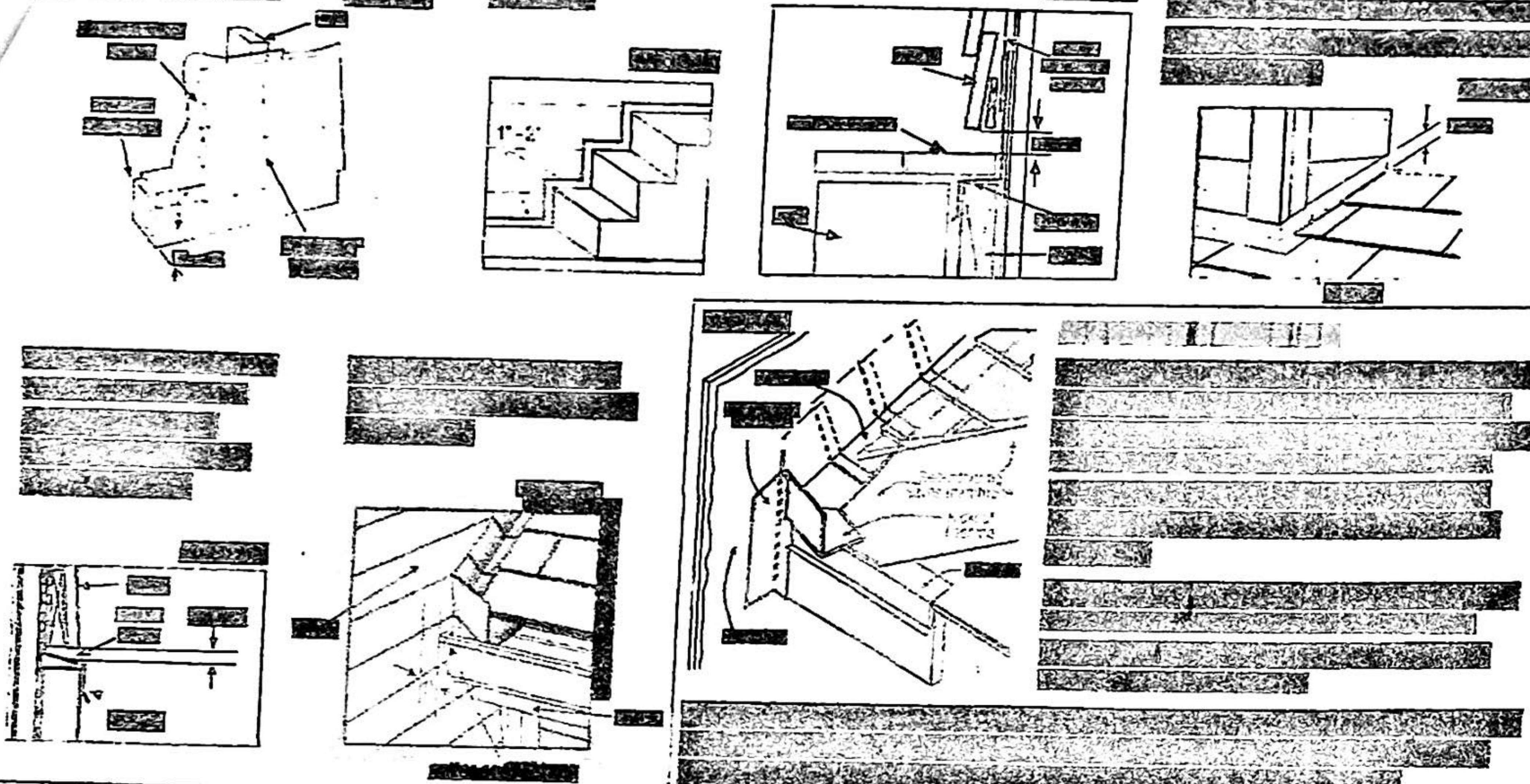


* If only nailed to sheathing, plank can be a maximum 9-1/4" wide and must be face nailed at 12" o.c. with 0.09" shank x 0.221" HD x 1.5" long corrosion resistant nails.

As required by local building code *Apply caulk in accordance with caulk manufacturers written application instructions.

WARNING: AVOID BREATHING SILICA DUST

Cemboard® products contain respirable crystalline silica, which is known to the State of California to cause cancer and is considered by IARC and NIOSH to be a cause of cancer from some occupational sources. Breathing excessive amounts of respirable silica dust can also cause a disabling and potentially fatal lung disease called silicosis and has been linked with other diseases. Some studies suggest smoking may increase these risks. During installation or handling: (1) work in outdoor areas with ample ventilation; (2) use fiber cement shears for cutting or, where not feasible, use a Hardiblade™ saw blade and dust-reducing circular saw attached to a HEPA vacuum; (3) warn others in the immediate area; (4) wear a properly-fitted, NIOSH-approved dust mask or respirator (e.g. N-95) in accordance with applicable government regulations and manufacturer instructions to further limit respirable silica exposures. During clean-up, use HEPA vacuums or wet cleanup methods - never dry sweep. For further information refer to our installation instructions and Material Safety Data Sheet available at www.cemboardsiding.com or by calling 1-877-236-7526. FAILURE TO ADHERE TO OUR WARNINGS, MSDS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.



FASTENER REQUIREMENTS**

Blind Nailing is the preferred method of installation for all Cemiplank[®] lap siding products

BLIND NAILING

Nails - Wood Framing

Screws - Steel Framing

Nails - Steel Framing

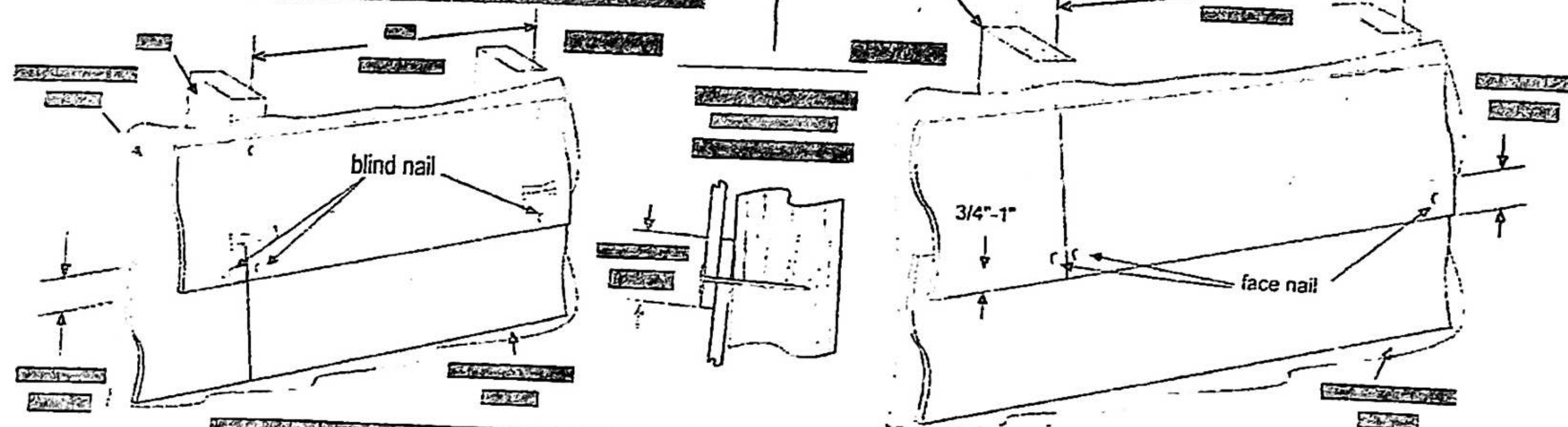
OSB minimum 7/16"

Nails - Wood Framing

Screws - Steel Framing

Nails - Steel Framing

OSB minimum 7/16"



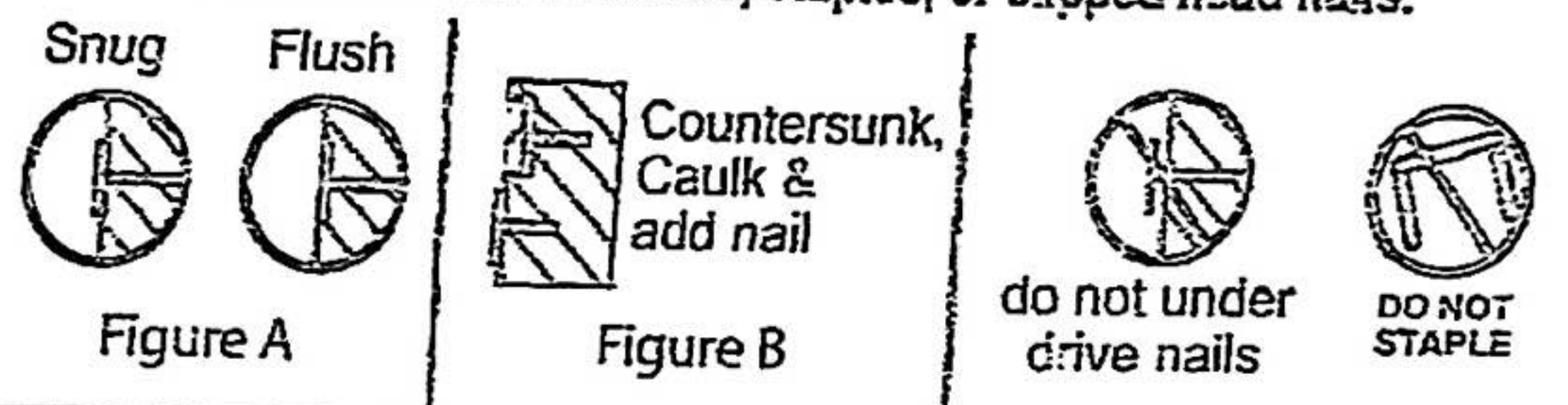
FASTENING REQUIREMENTS

Fasteners must be corrosion resistant, galvanized, or stainless steel. Electro-galvanized are acceptable but may exhibit premature corrosion. The manufacturer recommends the use of quality, hot-dipped galvanized nails. The manufacturer is not responsible for the corrosion resistance of fasteners. Stainless steel fasteners are recommended when installing Cemboard® products near the ocean, large bodies of water, or in very humid climates.

PNEUMATIC FASTENING

Cemboard products can be hand nailed or fastened with a pneumatic tool. Pneumatic fastening is highly recommended. Set air pressure so that the fastener is driven snug with the surface of the siding. A flush mount attachment on the pneumatic tool is recommended. This will help control the depth the nail is driven. If setting the nail depth proves difficult, choose a setting that under drives the nail. (Drive under driven nails snug with a smooth faced hammer - Does not apply for installation to steel framing).

- Consult applicable code compliance report for correct fasteners type and placement to achieve specified design wind loads.
- NOTE: Published wind loads may not be applicable to all areas where Local Building Codes have specific jurisdiction. Consult the manufacturer's Technical Services if you are unsure of applicable compliance documentation.
- Drive fasteners perpendicular to siding and framing.
- Fastener heads should fit snug against siding (no air space). (fig. A)
- Do not over-drive nail heads or drive nails at an angle.
- If nail is countersunk, caulk nail hole and add a nail. (fig. B)
- For wood framing, under driven nails should be hit flush to the plank with a hammer (For steel framing, remove and replace nail).
- Do not use aluminum fasteners, staples, or clipped head nails.



CAULKING

For best results use an Elastomeric Joint Sealant complying with ASTM C920 Grade NS, Class 25 or higher or a Latex Joint Sealant complying with ASTM C834. Caulking/Sealant must be applied in accordance with the caulking/sealant manufacturer's written instructions or ASTM C1193.

PAINTING

DO NOT use stain on Cemboard products. Cemboard products must be painted within 180 days for primed product and 90 days for unprimed. 100% acrylic topcoats are recommended. Do not paint when wet. For application rates refer to paint manufacturers specifications. Back-rolling is recommended if the siding is sprayed.

FACTORY BUILT COLOR TECHNOLOGY TOUCH-UP APPLICATION

- Touch up nicks, scrapes and nail heads using the Factory Built Color technology touch-up applicator. Touch-up paint should be used sparingly. If large areas require touch-up, replace the damaged area with new Cemplank® lap siding with Factory Built Color technology.
- Laminate sheet must be removed immediately after installation of each course.
- Terminate non-factory cut edges into trim where possible, and caulk. Color matched caulks are available from your Factory Built Color product dealer.
- Treat all other non-factory cut edges using the Factory Built Color technology edge coat, available from your Factory Built Color product dealer.

PAINTING CEMBOARD SIDING AND TRIM PRODUCTS WITH FACTORY BUILT COLOR TECHNOLOGY

When repainting Factory Built Color products, the manufacturer recommends the following regarding surface preparation and topcoat application:

- Ensure the surface is clean, dry, and free of any dust, dirt, or mildew
- Repriming is normally not necessary
- 100% acrylic topcoats are recommended
- DO NOT use stain or oil/alkyd base paints on Cemboard products
- Apply finish coat in accordance with paint manufacturers written instructions regarding coverage, application methods, and application temperature

COVERAGE CHART/ESTIMATING GUIDE

Number of 12' planks, does not include waste

COVERAGE AREA LESS OPENINGS		CEMPLANK® LAP SIDING WIDTH									
SQ (1 SQ = 100 sq.ft.)	(exposure)	5 1/4 4	6 1/4 5	7 1/4 6	7 1/2 6 1/4	8 6 3/4	8 1/4 7	9 1/4 8	9 1/2 8 1/4	12 10 3/4	
1		25	20	17	16	15	14	13	13	9	
2		50	40	33	32	30	29	25	25	19	
3		75	60	50	48	44	43	38	38	28	
4		100	80	67	64	59	57	50	50	37	
5		125	100	83	80	74	71	63	63	47	
6		150	120	100	96	89	86	75	75	56	
7		175	140	117	112	104	100	88	88	65	
8		200	160	133	128	119	114	100	100	74	
9		225	180	150	144	133	129	113	113	84	
10		250	200	167	160	148	143	125	125	93	
11		275	220	183	176	163	157	138	138	102	
12		300	240	200	192	178	171	150	150	112	
13		325	260	217	208	193	186	163	163	121	
14		350	280	233	224	207	200	175	175	130	
15		375	300	250	240	222	214	188	188	140	
16		400	320	267	256	237	229	200	200	149	
17		425	340	283	272	252	243	213	213	158	
18		450	360	300	288	267	257	225	225	167	
19		475	380	317	304	281	271	238	238	177	
20		500	400	333	320	296	286	250	250	186	

coverage chart is meant as a guide. Actual usage is subject to variables and conditions.

This coverage chart is meant as a guide. Actual usage is subject to variables such as building design. The manufacturer does not assume responsibility for over or under ordering of product.

RECOGNITION: In accordance with ICG-ES Legacy Report NER-405, Cemplank® lap siding is recognized as a suitable alternate to that specified in: the BOCA National Building Code/1999, the 1997 Standard Building Code, the 1997 Uniform Building Code, the 1998 International One-and Two-Family Dwelling Code, the 2003 International Building Code, and the 2003 International Residential Code for One-and Two-Family Dwellings. Cemplank® lap siding is also recognized for application in the following: City of Los Angeles Research Report No. 24862, State of Florida Building Code, Florida Building Code, U.S. Dept. of HUD Materials Release 1263c, Texas Department of Insurance Product Evaluation EC-23, City of New York MEA 223-93-M, and California DSA PA-019. These documents should also be consulted for additional information concerning the suitability of this product for specific applications.

FL# 24161



AMERICAN CONSTRUCTION METALS

5140 West Ciffon Street
Tampa, FL 33634

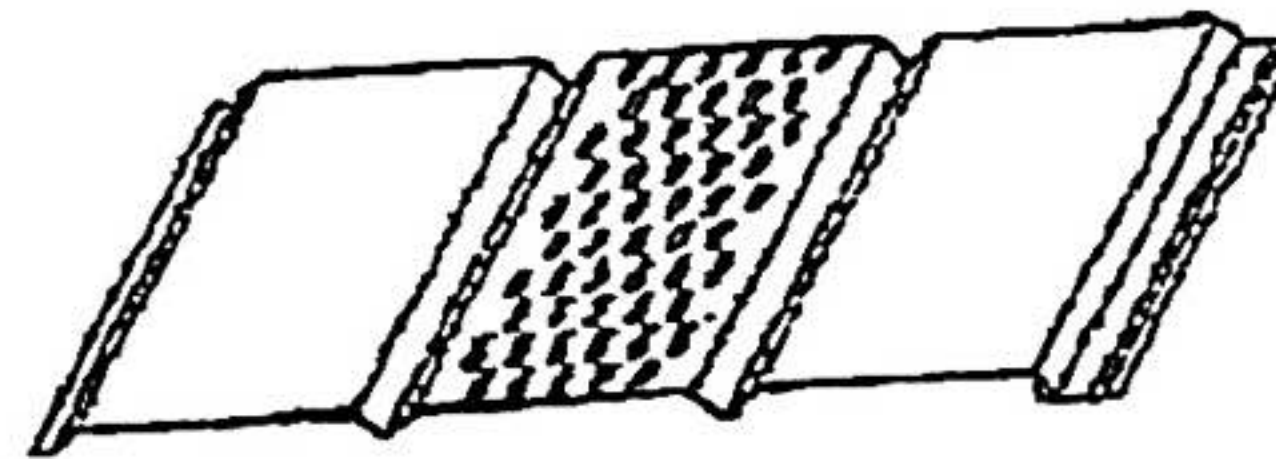
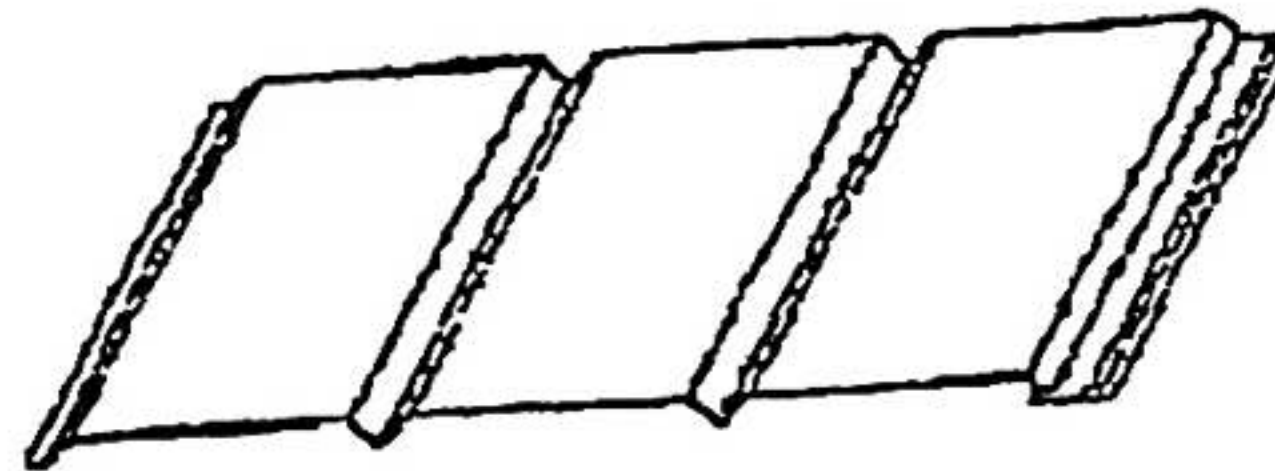
"TRIPLE 4" & "QUAD 4" ALUMINUM SOFFIT

GENERAL NOTE

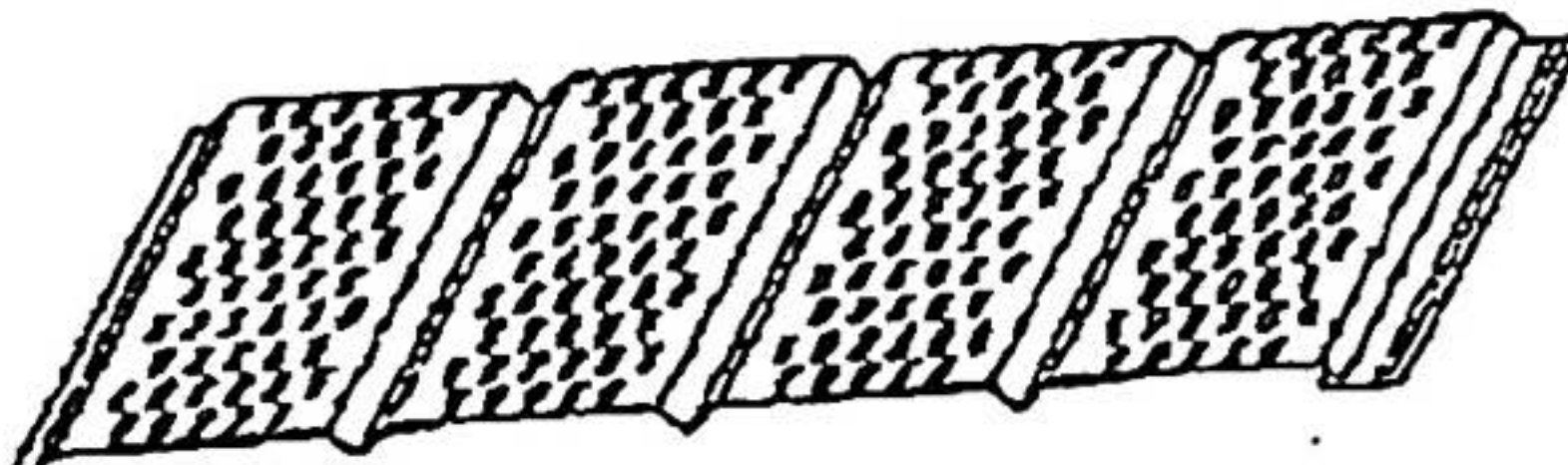
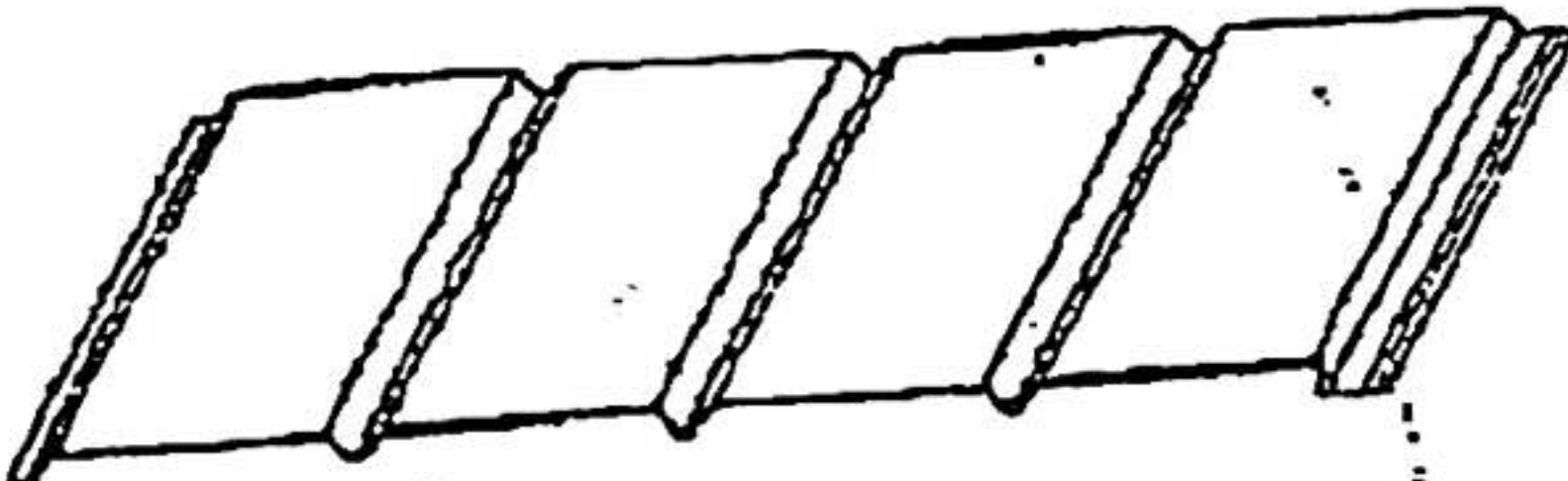
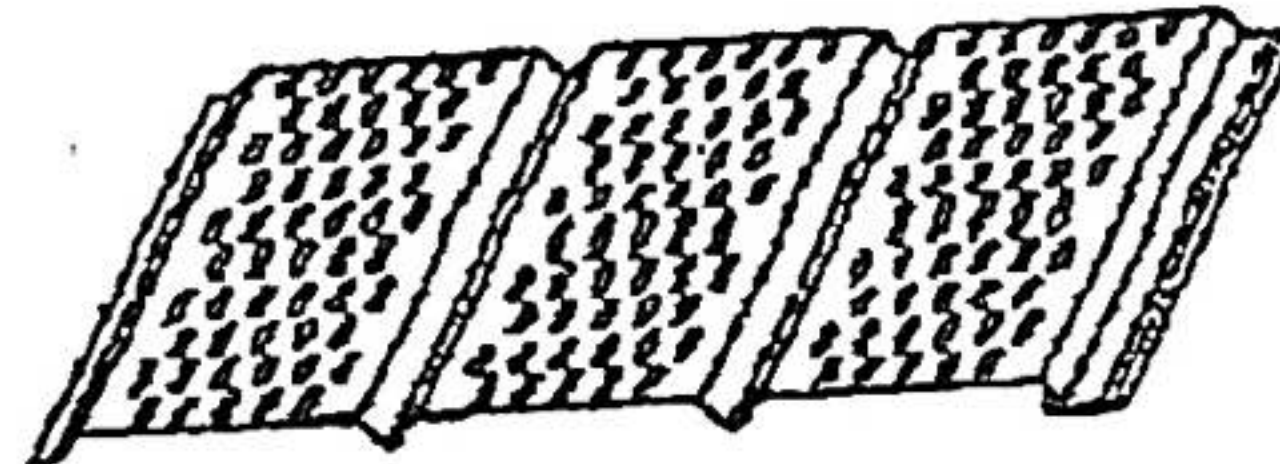
1. This product has been evaluated and is in compliance with the Florida Building Code excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. Sills conditions not covered by this drawing are subject to further engineering analysis.
4. Wood/CMU wall construction, by others, must be designed properly to receive loads from the soffit and/or 2" x 2" bottom sills.

TABLE OF CONTENTS

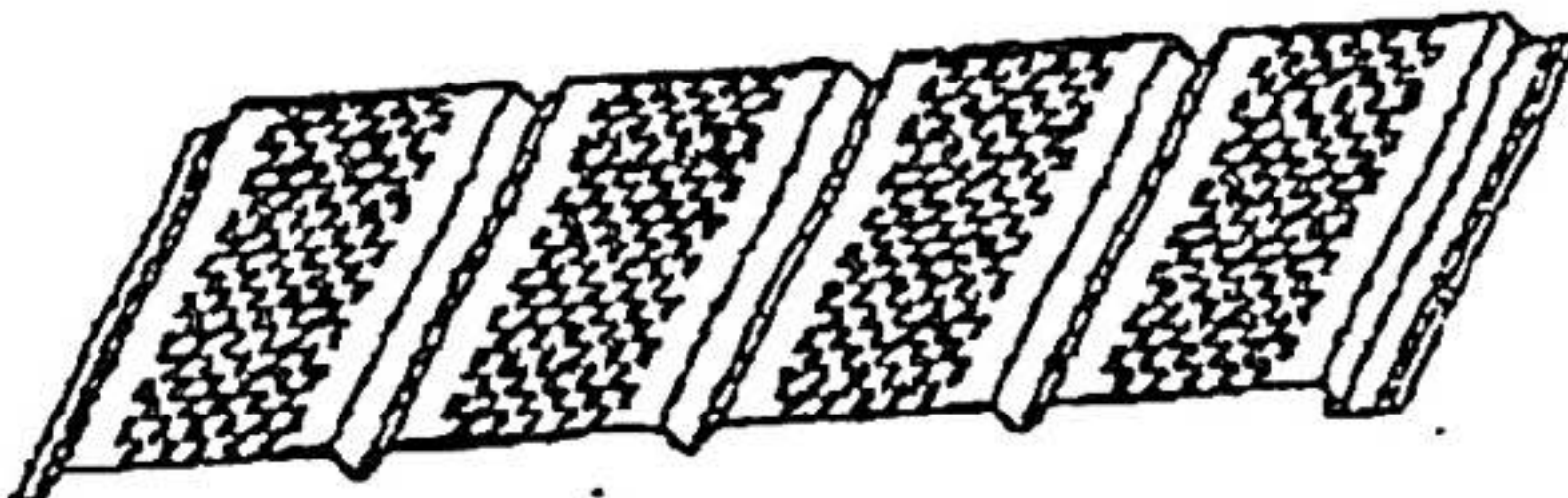
SHEET #	DESCRIPTION
1	Typical elevations & general notes
2	Panel details
3	Soffit details & design parameters
4	Soffit details & design parameters
5	Soffit details, design parameters & bill of materials



TRIPLE 4 (TD)
14012 (0115) THCA
14016 (0115) THCA

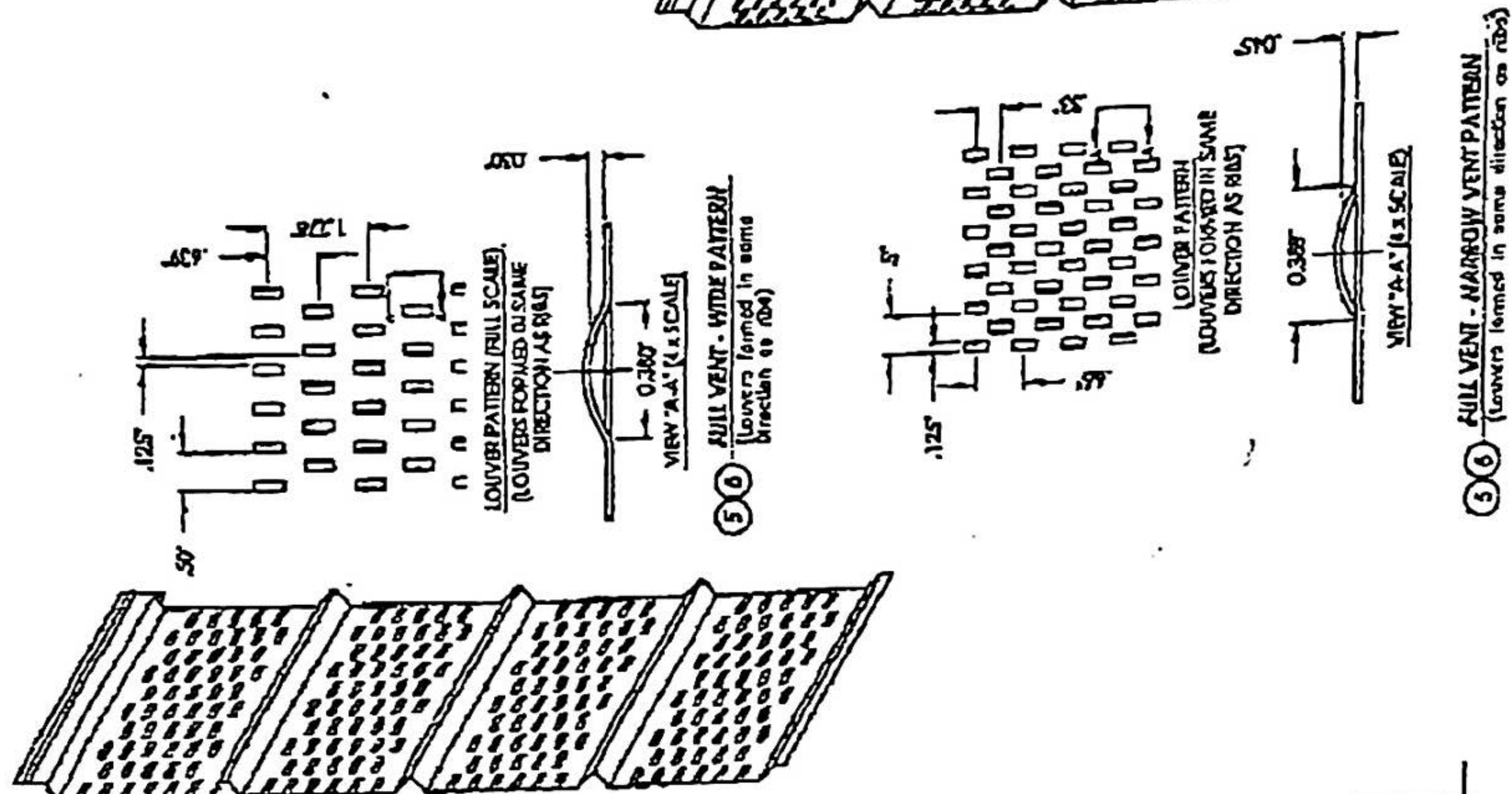
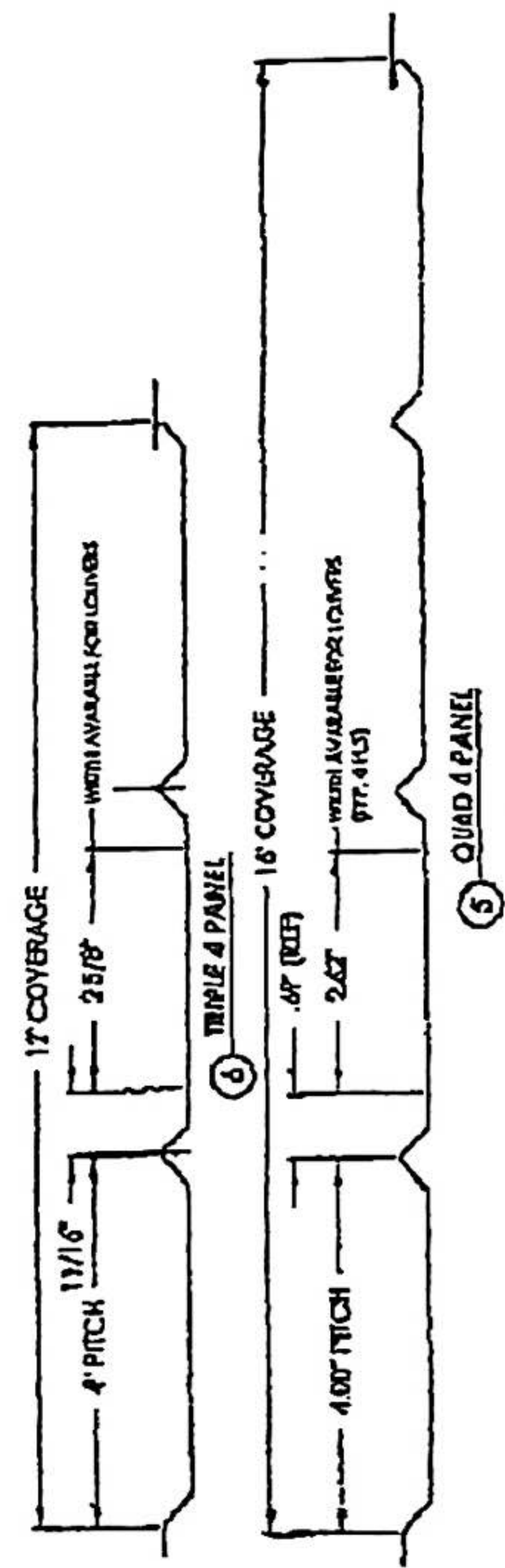
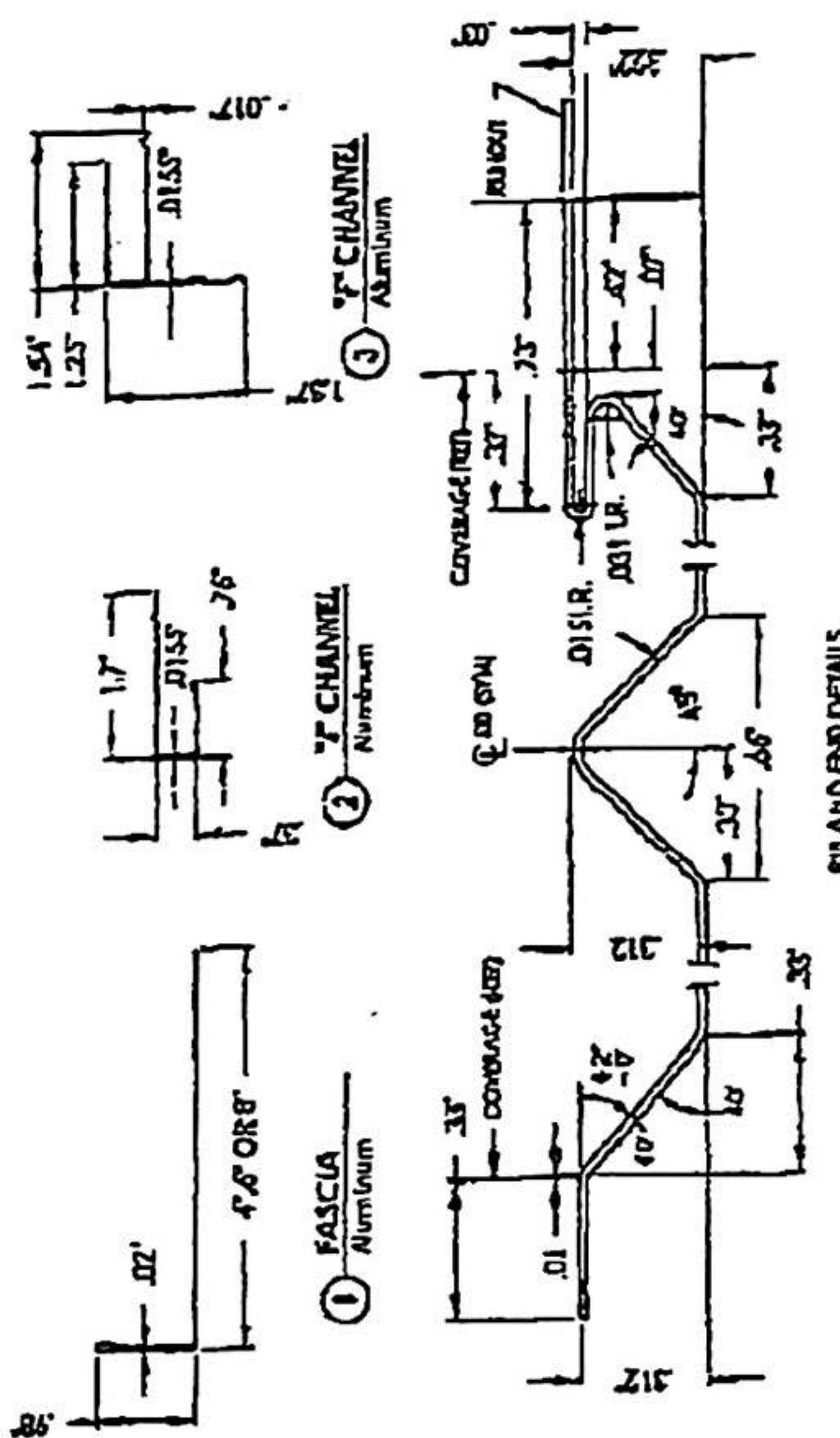


QUAD 4 (CA)
04012 (0115) THCA
04016 (0115) THCA



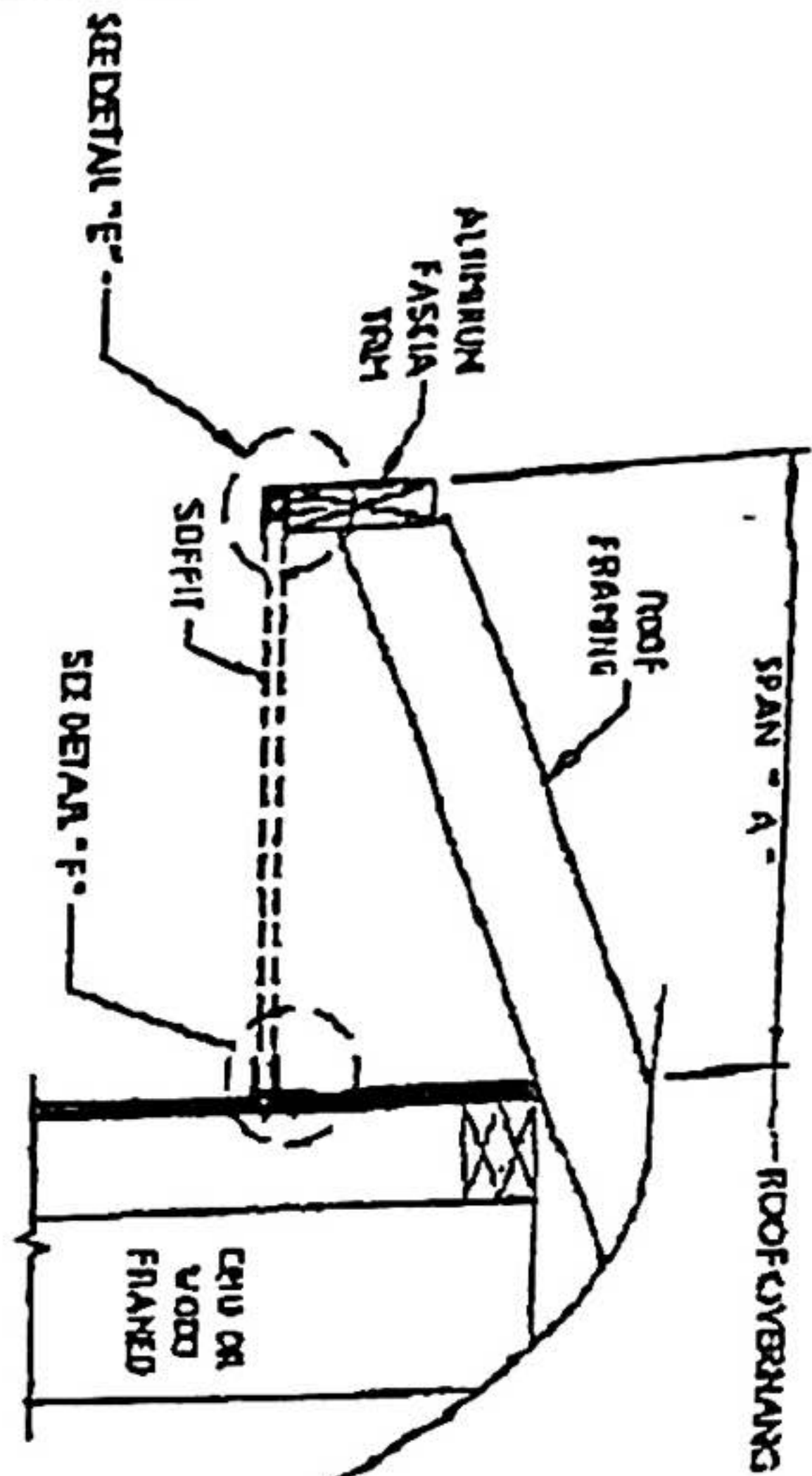
PRODUCT: ALUMINUM SOFFIT		Document Prepared By: <i>RW</i> R.W. BUILDING CONSULTANTS, INC. P.O. Box 240 Venice FL 33598 Phone No. 813.550.0187 Florida Board of Professional Engineers Certificate of Authorization No. 5813 12.12.11 Lyndon P. Schmidt, P.E. No. 45460
PART OR ASSEMBLY: TYPICAL ELEVATIONS & GENERAL NOTES		
REVISIONS		
NO.	DATE	DESCRIPTION
1	3/23/08	ADD DETAILS
2	3/8/10	ADD DETAILS
3	12/13/11	UPDATE FOR 2010 FBC
DATE: 1/9/09		
SCALE: N.T.S.		
DRW. BY: JK		
CHECK BY: US		
DESIGNED BY: FL-12019.1		
PLANT 1 OF 5		

SOFFIT AIR FLOW TABLE							
SOFFIT TYPE	AIR FLOW		DOFFIT TYPE	AIR FLOW			
	PER 100 SQ. FT. AREA OF SOFFIT	% FREE AREA		PER 100 SQ. FT. AREA OF SOFFIT	% FREE AREA		
	CENTRAL UNIT PLASOLITH PARTIAL	3.91	2.74%		11.74	8.16%	
	FULL UNIT PLASOLITH PARTIAL	11.74	8.15%			3.68	2.56%
	FULL UNIT PLASOLITH PARTIAL	3.68	2.56%			11.74	8.16%



BUILDING CONSTRUCTORS, INC. P.O. Box 2200 Venice FL 33596 Phone No. 312.855.9187 Florida Board of Professional Engineers Certificate of Registration No. 8513  12-13-11 London F. Schaefer, P.E. No. 43400		ALUMINUM SORBIT PART OR ASSEMBLY PANEL DETAILS		REVISIONS NO. DATE 1 3/31/08 ADD DETAIL 5 2 3/3/10 ADD DETAIL 5 3 12/13/11 UPDATE FOR 2010 FBC		000 01/01/09 0000 N.T.S. DATE BY JK QTY. TO LF'S PART NO. FL-12019.1 0000 2 of 5	
--	--	--	--	--	--	--	--

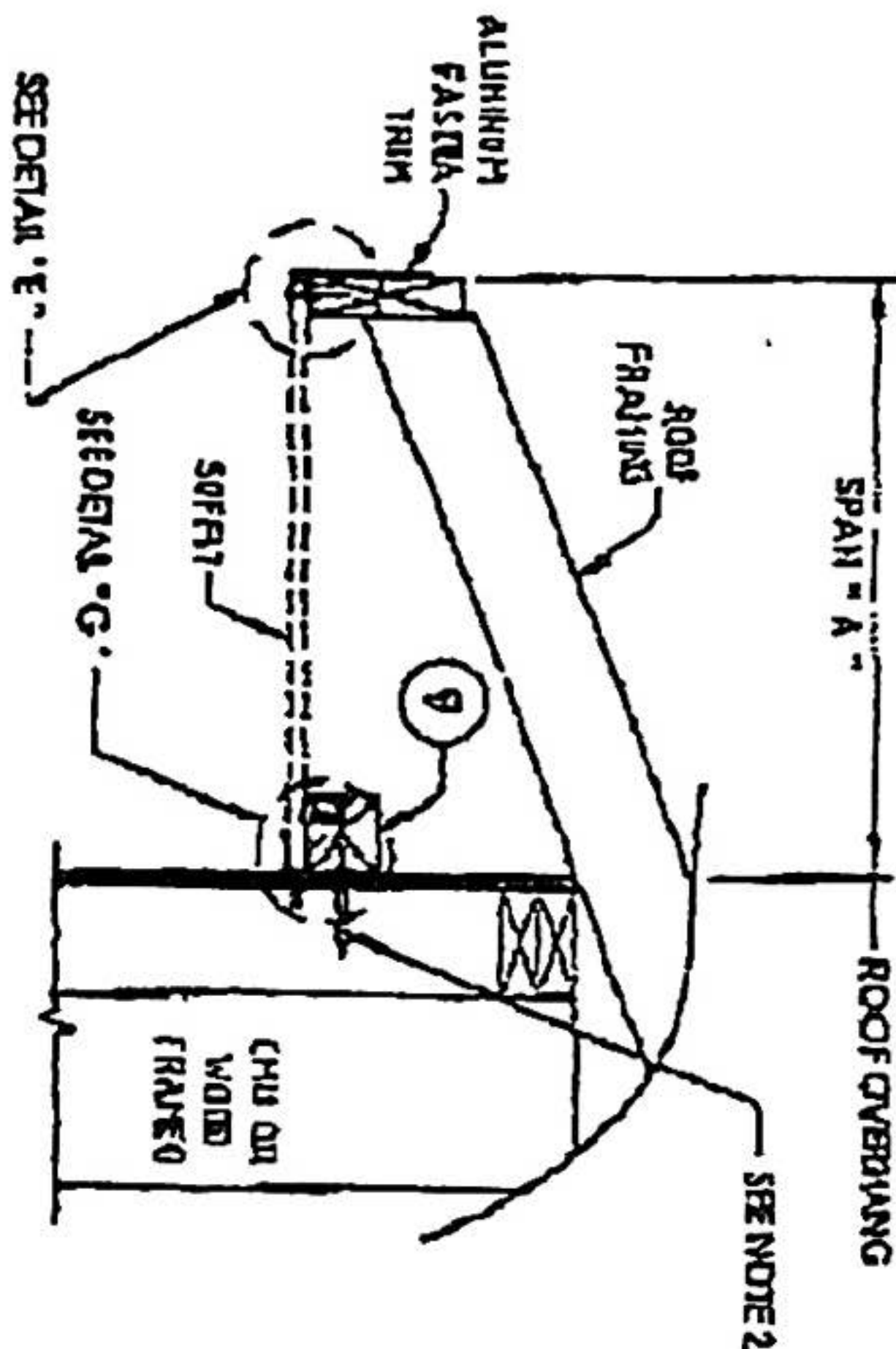
DETAIL "G"
J-Channel



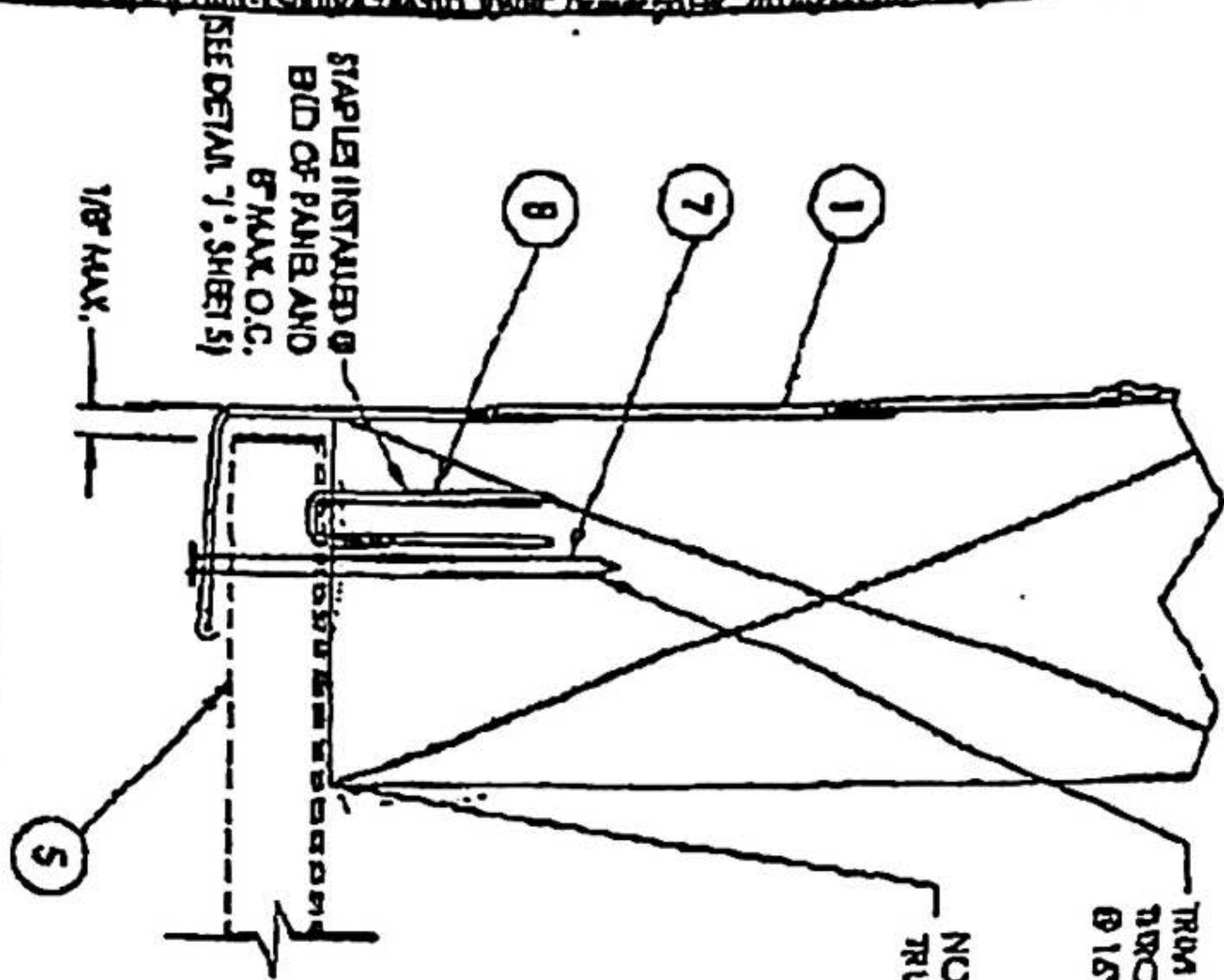
SIDE VIEW - SINGLE SPAN W/F-CHANNEL
(Span w/ truss/rafter overhang)

SPAN LENGTH	DESIGN PRESSURE (psf)
6'	+70.0 -141.0
8'	+60.0 -60.0
12'	+50.0 -50.0
14'	+38.5 -38.5
16'	+30.0 -30.0

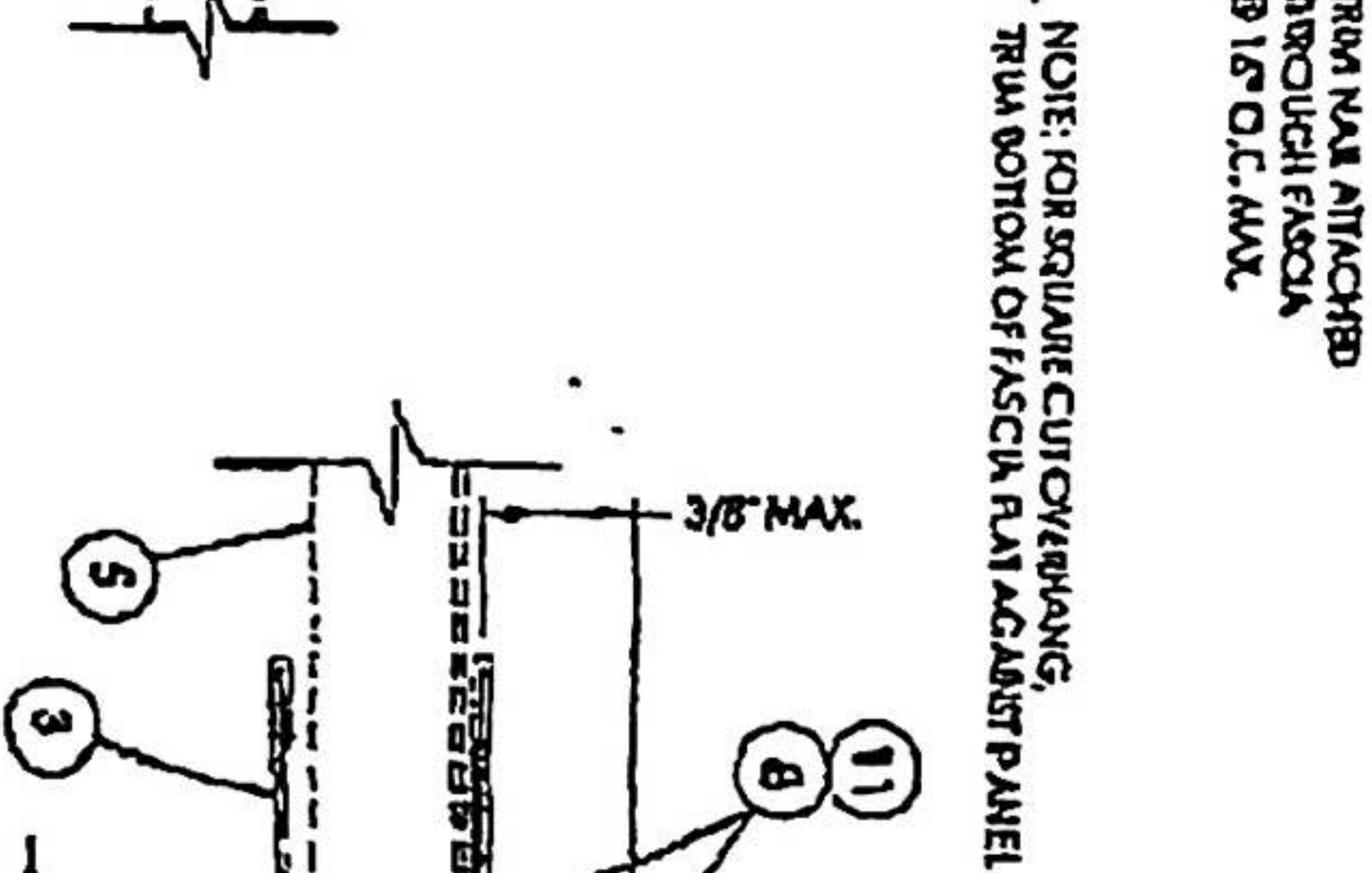
NOTE:
1. WOOD FRAMING AND CONNECTIONS TO BE DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD
2. 12" COMMON NAIL OR 3/16" TYP. CONCRETE ANCHOR (MIN. 1-1/4" EMBEDMENT) @ 24" ON CENTER



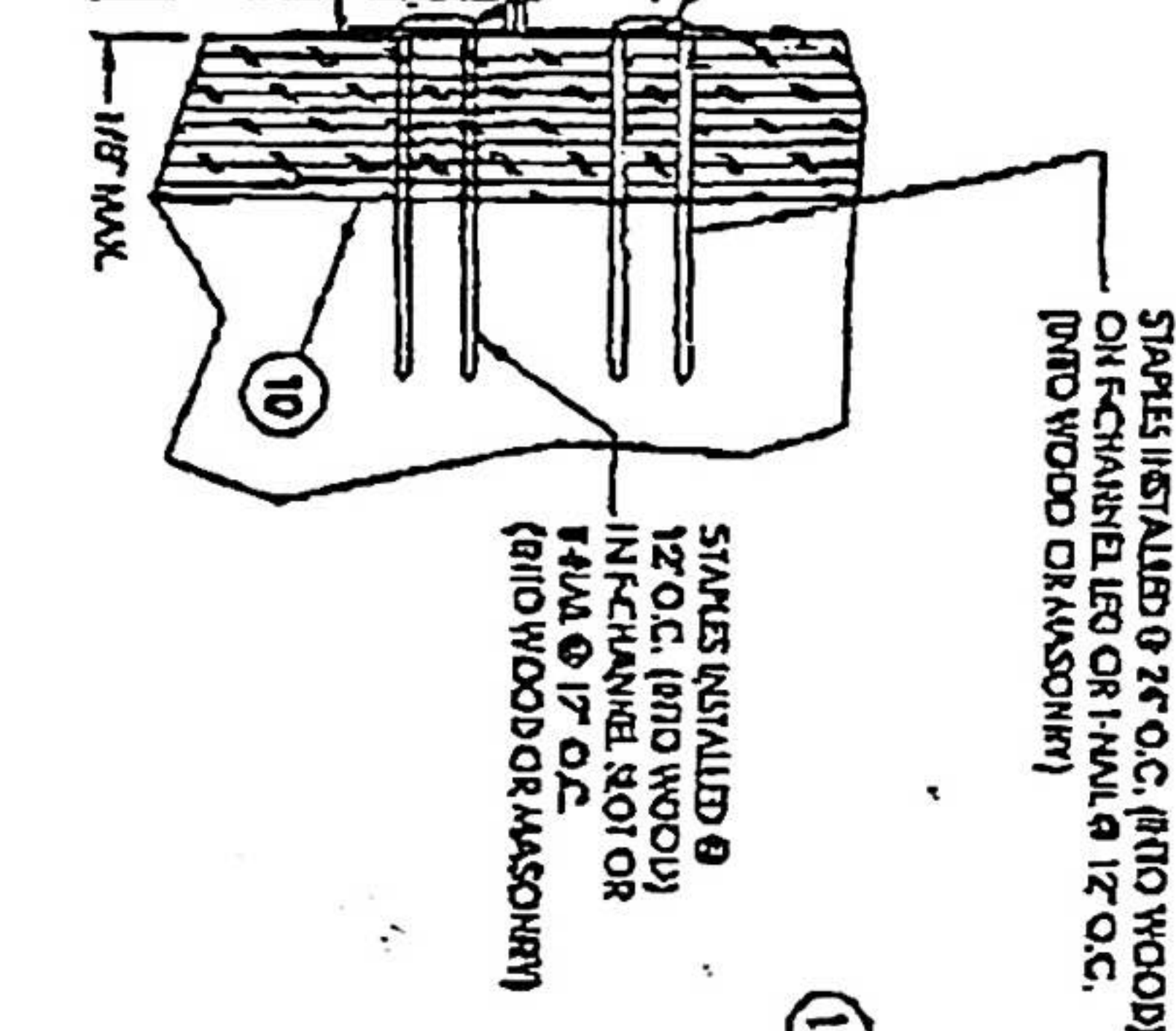
SIDE VIEW - SINGLE SPAN W/J-CHANNEL
(Span w/ truss/rafter overhang)



DETAIL "E"
Fascia



DETAIL "F"
F-Channel



DETAIL "G"
J-Channel

REVISIONS		PRODUCT		PART OR ASSEMBLY	
3	12/13/11	UPDATE FOR 2010 FBC	LFS	ALUMINUM SOFFIT	
2	3/8/10	ADD DETAILS	JK	SOFFIT DETAILS & DESIGN PRESSURES	
1	3/31/08	ADD DETAILS	JK		
NO.	DATE		BY		
REVISIONS					
DATE: 1/9/09					
DRAWN: N.T.S.					
CHK. ON: JK					
CHK. BY: LFS					
ORIGIN: N.T.					
FL-12019.1					
SHEET 4 OF 5					

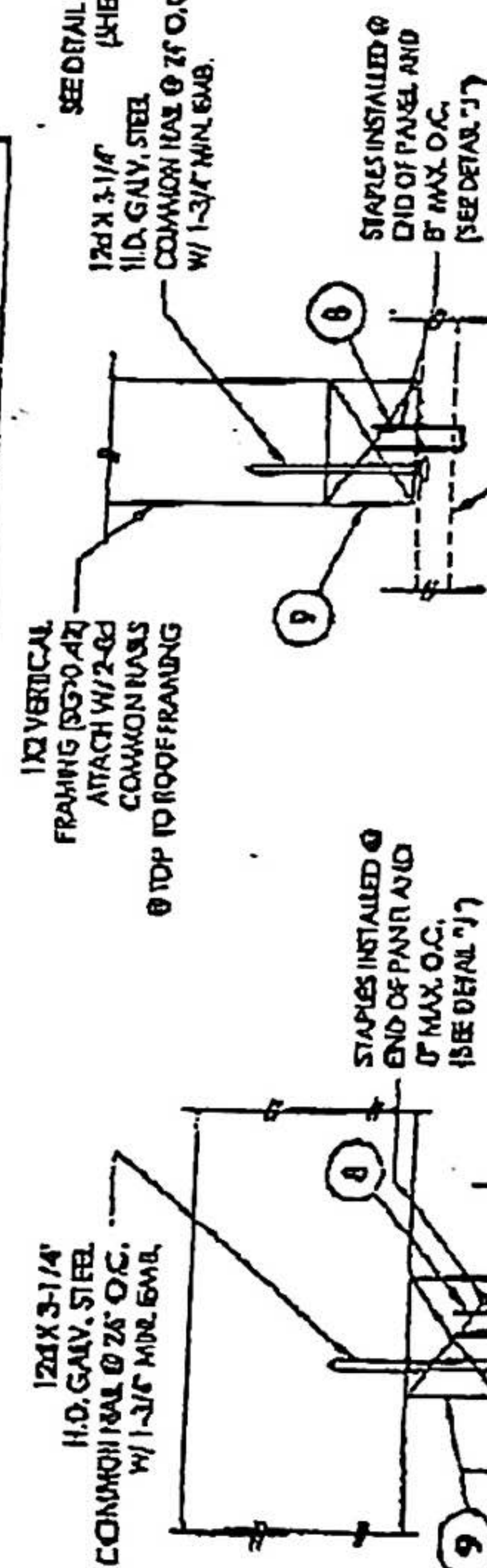
Documents Prepared By:

RW BUILDING CONSULTANTS, INC.
P.O. Box 227 Venice, FL 33596
Phone No.: 813.289.9177

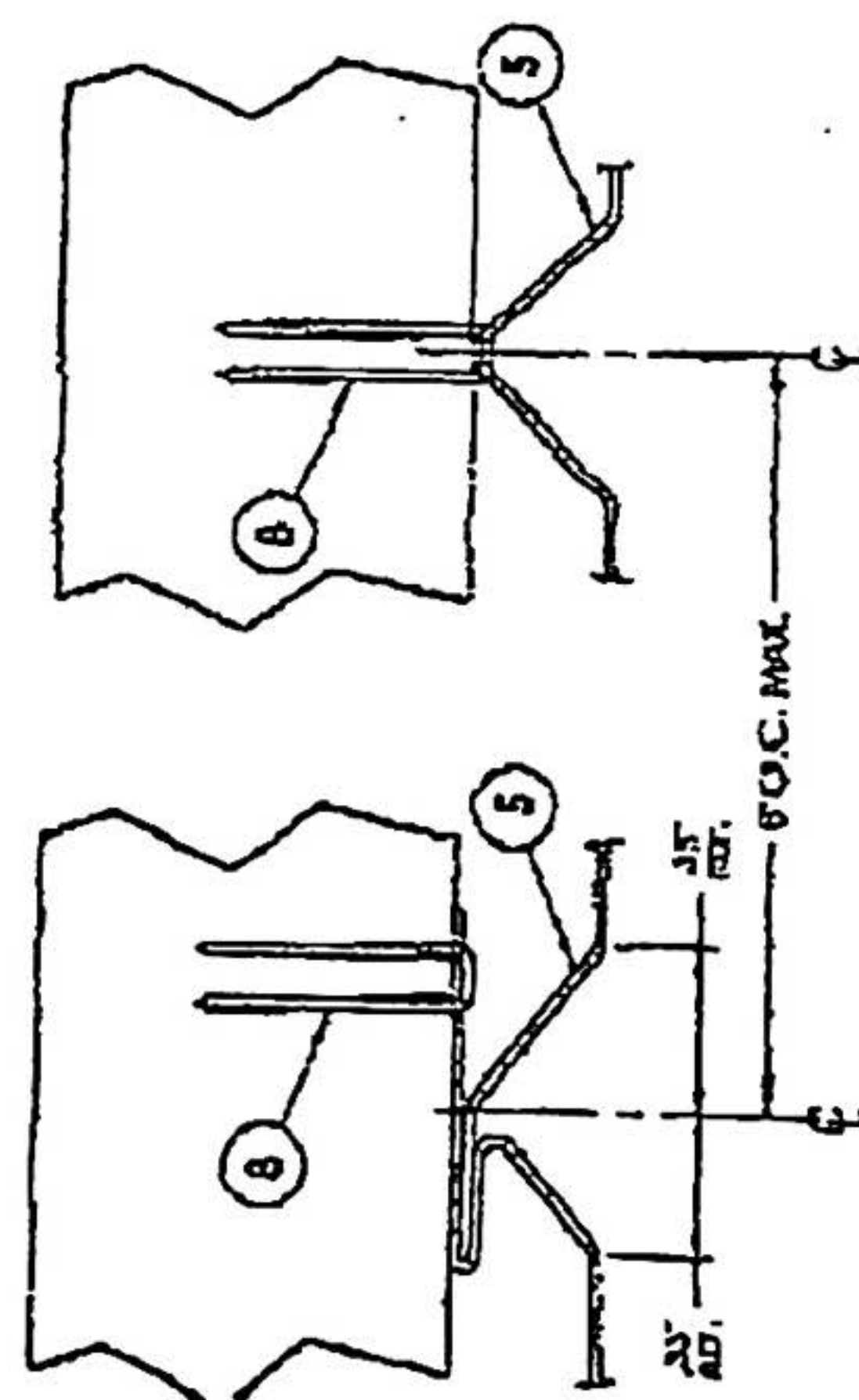
Florida Board of Professional Engineers
Certificate of Authorization No. 8813

12-13-11
Lincoln E. Schmidt P.E. No. 43400

ITEM#	DESCRIPTION	MATERIAL
1	FASCIA .0215 THK. AL 3105 - H194	ALUMINUM
2	"F" CHANNEL .0155" THK. AL. 3105 - H24	ALUMINUM
3	"P" CHANNEL .0155" THK. AL. 3104 - H19	ALUMINUM
5	QUAD 4 PANEL (.0115 OR .0135" THICK) AL. 3105	ALUMINUM
6	TRIPLE 4 PANEL (.0115 OR .0135" THICK) AL. 3105	ALUMINUM
7	H15X 1-3/4" TRIM NAIL	ALUMINUM
8	18 GA. X 1/4" SS STAPLE (W/ 7/8" MIN. EMBEDMENT)	S.S.
9	2" X2" BATTEN STRIP SG-42 OR BETTER	STEEL
10	APA B-C - GROUT 1 EXT. 15/32" PLYWOOD OR BETTER	WOOD
11	.097 DIA. 1 1/4" NAIL (W/ 5/8" MIN. EMBEDMENT)	STEEL



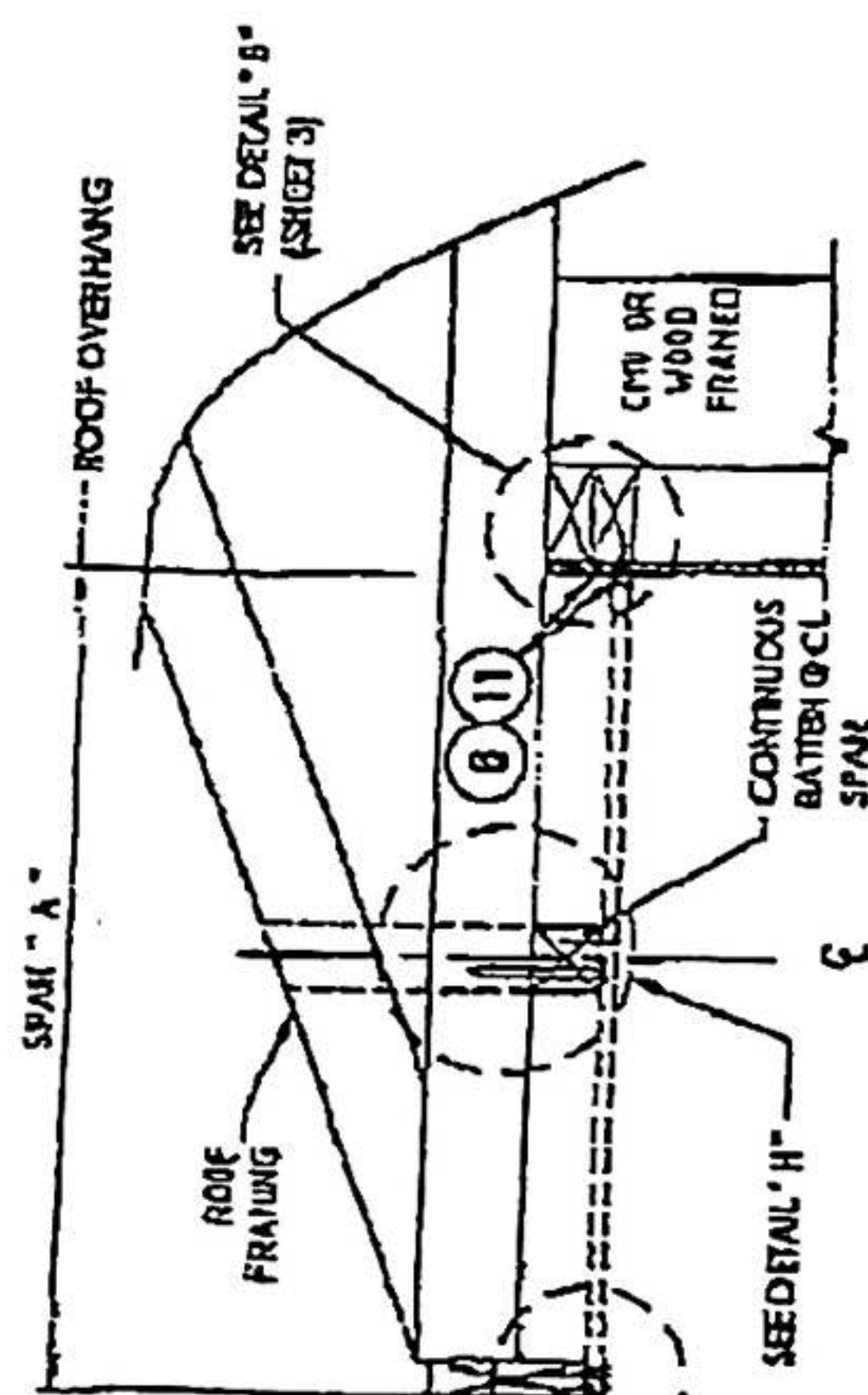
DETAIL "H"



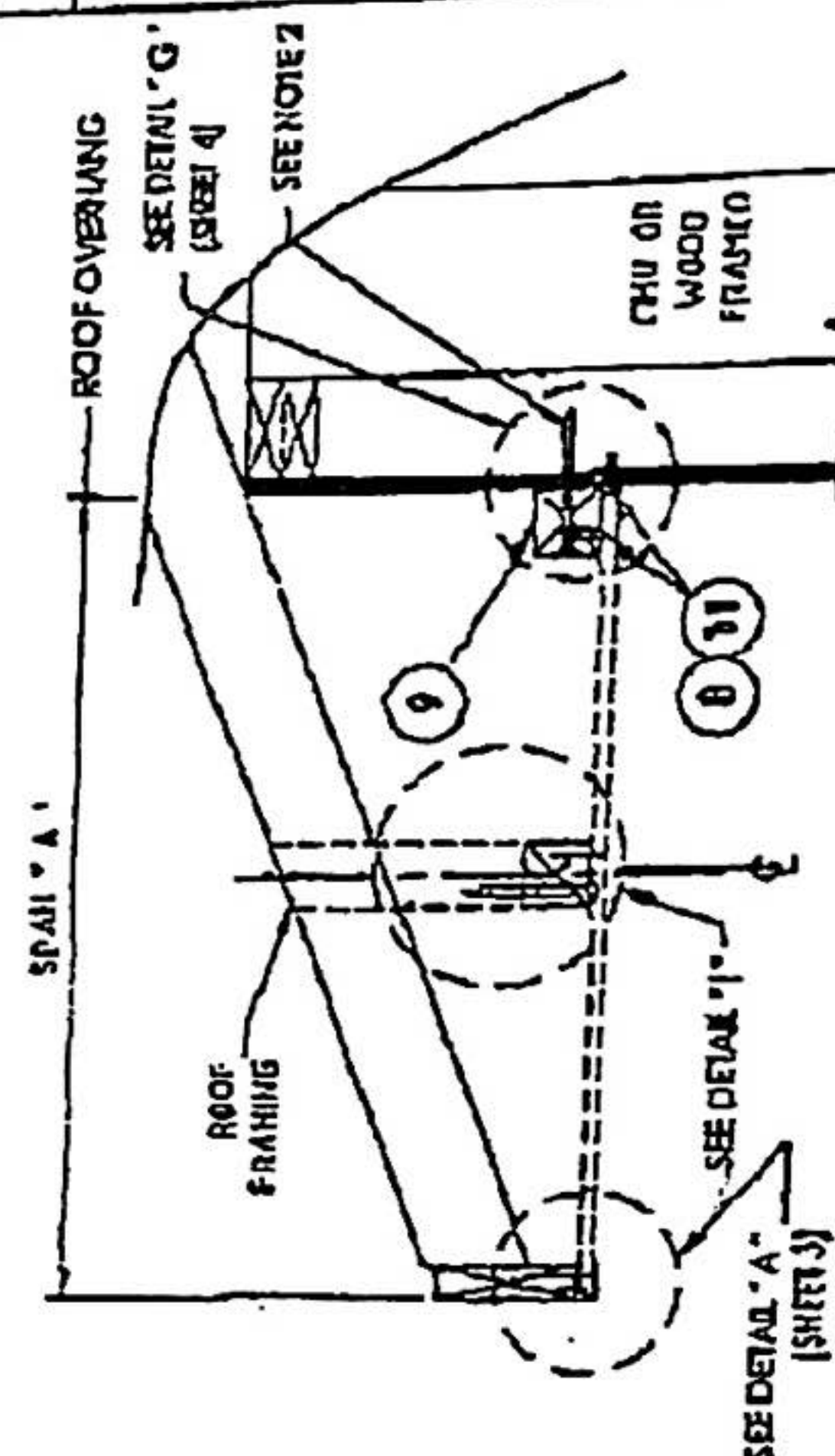
DETAIL "I"

JOINT LENGTH W/ CONTINUOUSITY	DESIGN PRESSURE (PSI) POINTER NEGATIVE
16"	+70.0 -70.0
18"	+66.5 -66.5
20"	+60.0 -60.0
22"	+54.5 -54.5
24"	+50.0 -50.0

NOTE:
1. WOOD FRAMING AND CONNECTIONS TO BE DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD
2. 2ND COMMON HAS OR 3/16" INW CONCRETE SCHEDULE (MIN. 4-1/4" EMBEDMENT @ 2" ON CENTER)



SIDE VIEW - DOUBLE SPAN W/ BATTERY



SIDE VIEW - DOUBLE SPAN W/BATTEN

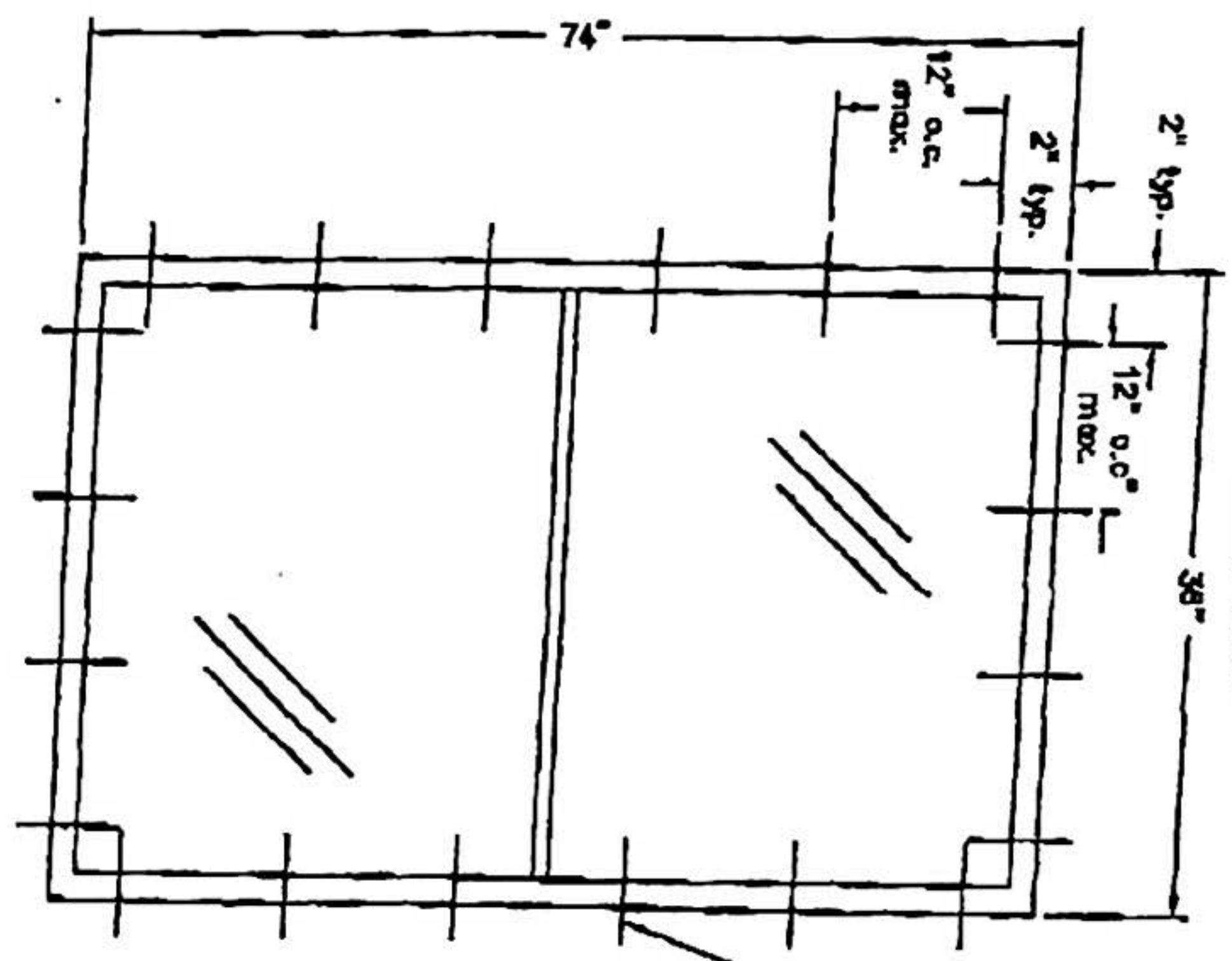
(Duty-free duty-free duty-free)

[illegible]

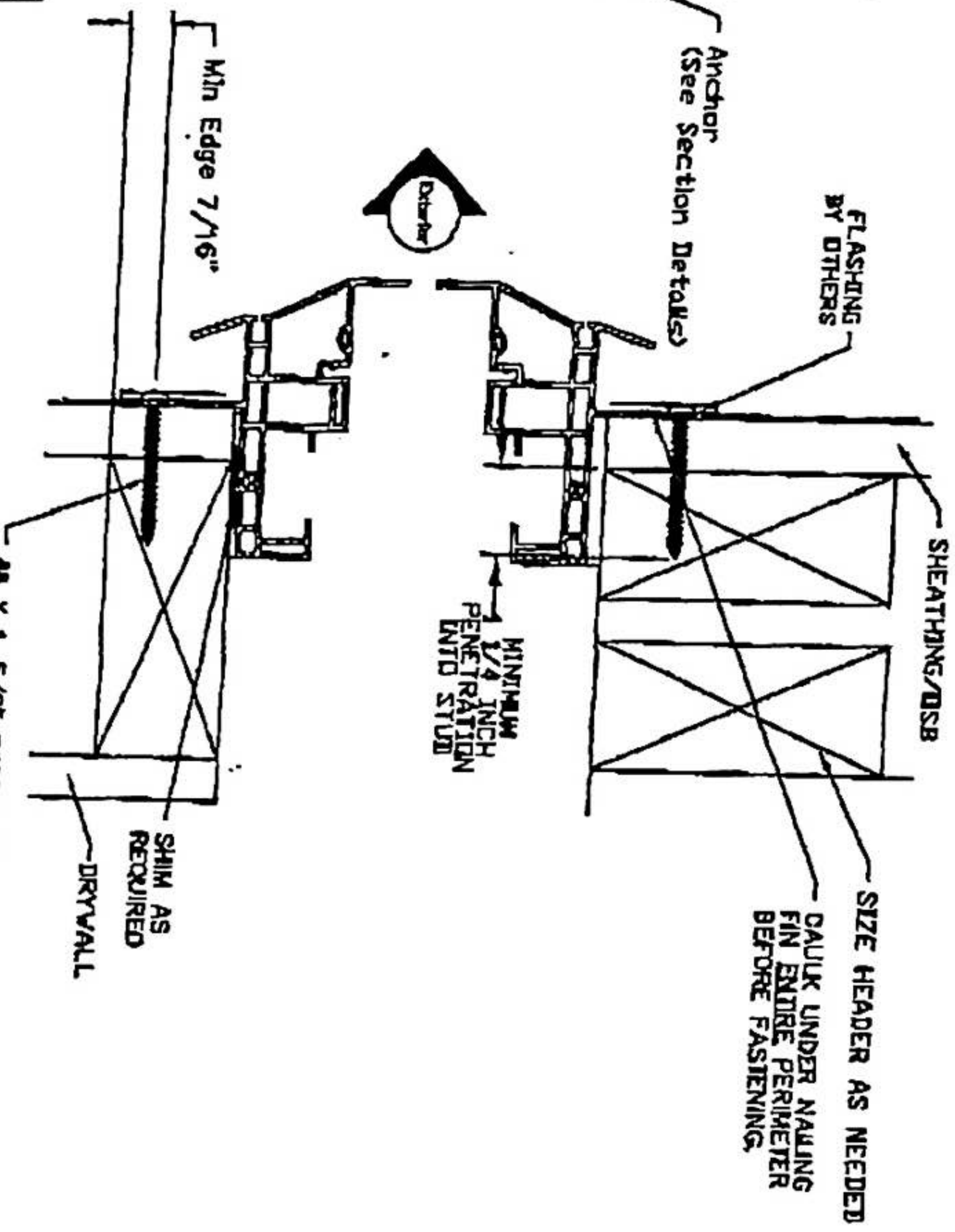
DIVISION OF CONSTRUCTION, N.C.
 P.O. BOX 250 WILSON, N.C. 27898
 PHONE N.C. 817.839.1817
 Florida Board of Professional Engineers
 Department of Agriculture, Inc. 8812
 11-12-13-14
 London, P. Smith P.C. No. 43408

WINDOWS

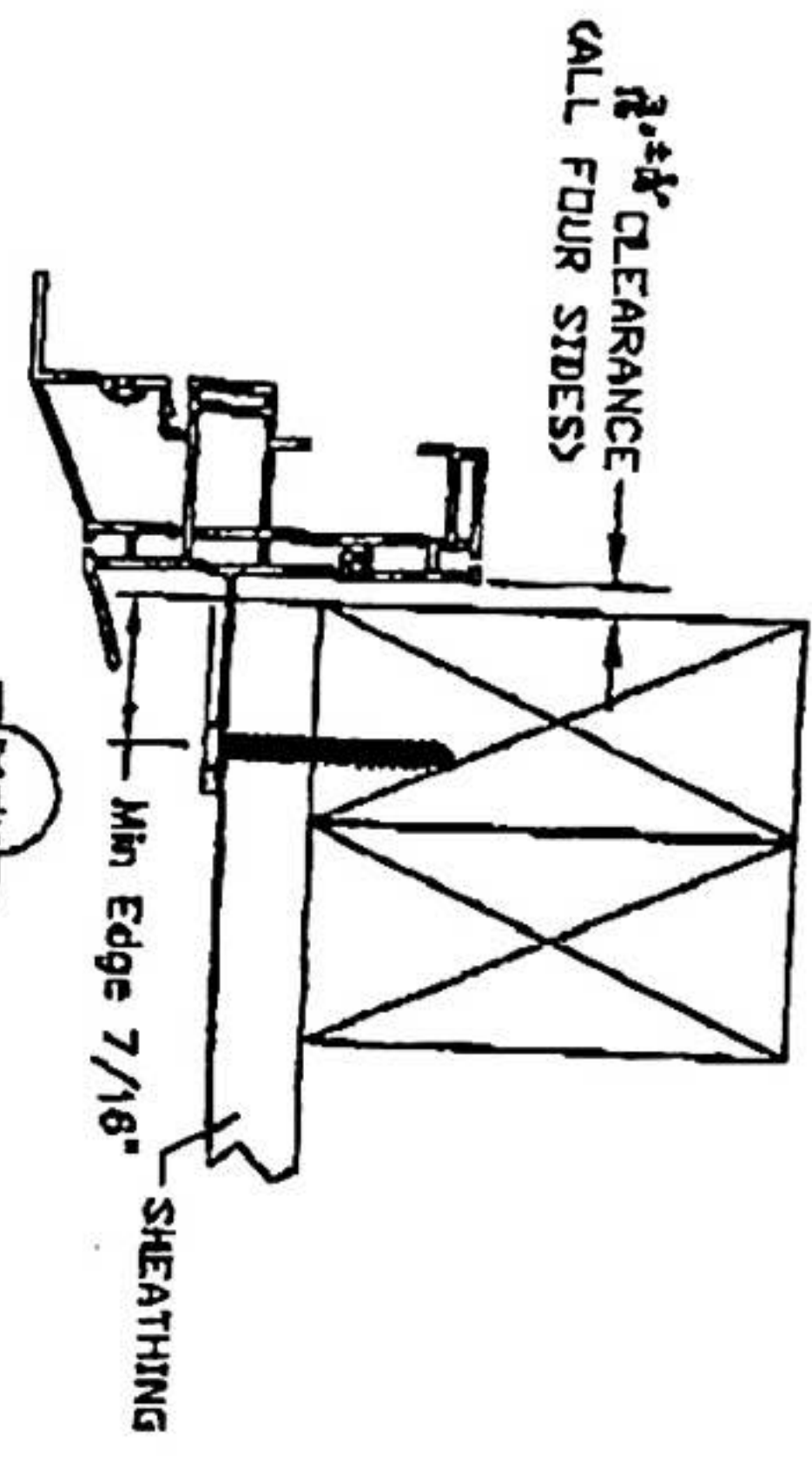
ELEVATION



HEAD DETAIL



SILL DETAIL



JAMB DETAIL

*NAIL FIN IS A GENERIC TERM WHICH MEANS 'MOUNTING FLANGE' AND NOT TO BE CONFUSED WITH '1/2" FRONT FLANGE'

SIZE AND DESIGN PRESSURE CHART

FASTER TYPE AND SPACING SHOWN WILL ALLOW DESIGN PRESSURES UP TO +35/-50 UNITS UP TO 36" x 74" (SEE TEST REPORTS FOR INDIVIDUAL UNIT SIZE AND APPLICABLE DESIGN PRESSURE LIMITATIONS)



3540 Single Hung

INSTALLATION INSTRUCTIONS & FASTENER SCHEDULE - FIN-

DETAILS	DATE
V.M.R.	12-14-09
DESIGN	DATE
SCALE	SCALE
NONE	1 or 1
3540-3240 SH FIN	1

- Notes:
1. Installation depicted based off of structural test report #C7327.01-109-47.
 2. Wood screws shall satisfy the National Design Specification for Wood Construction for material type and dimensional requirements.
 3. Wood buck installations are assumed 2x S-P-F (G=0.42) or denser. Buck width shall be greater than the window frame width. Tapered or partial width bucks are not allowed. Wood buck shall be secured to the structure to resist all design loads.
 4. Wood screw lengths shall be sufficient to guarantee 1-1/4" penetration into wood buck.
 5. Maximum shim thickness of 1/4" permitted at each fastener location. Shims shall be load bearing, not-compressible type.
 6. These drawings depict the details necessary to meet structural load requirements. They do not address the air infiltration, water penetration, intrusion or thermal performance requirements of the installation.
 7. Installation shown is that of the test window for the size shown and the design pressure claimed. For window sizes smaller than shown, locate fasteners approx. 2" from corners and no more than 12" on center. Design pressures of smaller window sizes are limited to that of the test window.

FL# 17676.

U.nyl