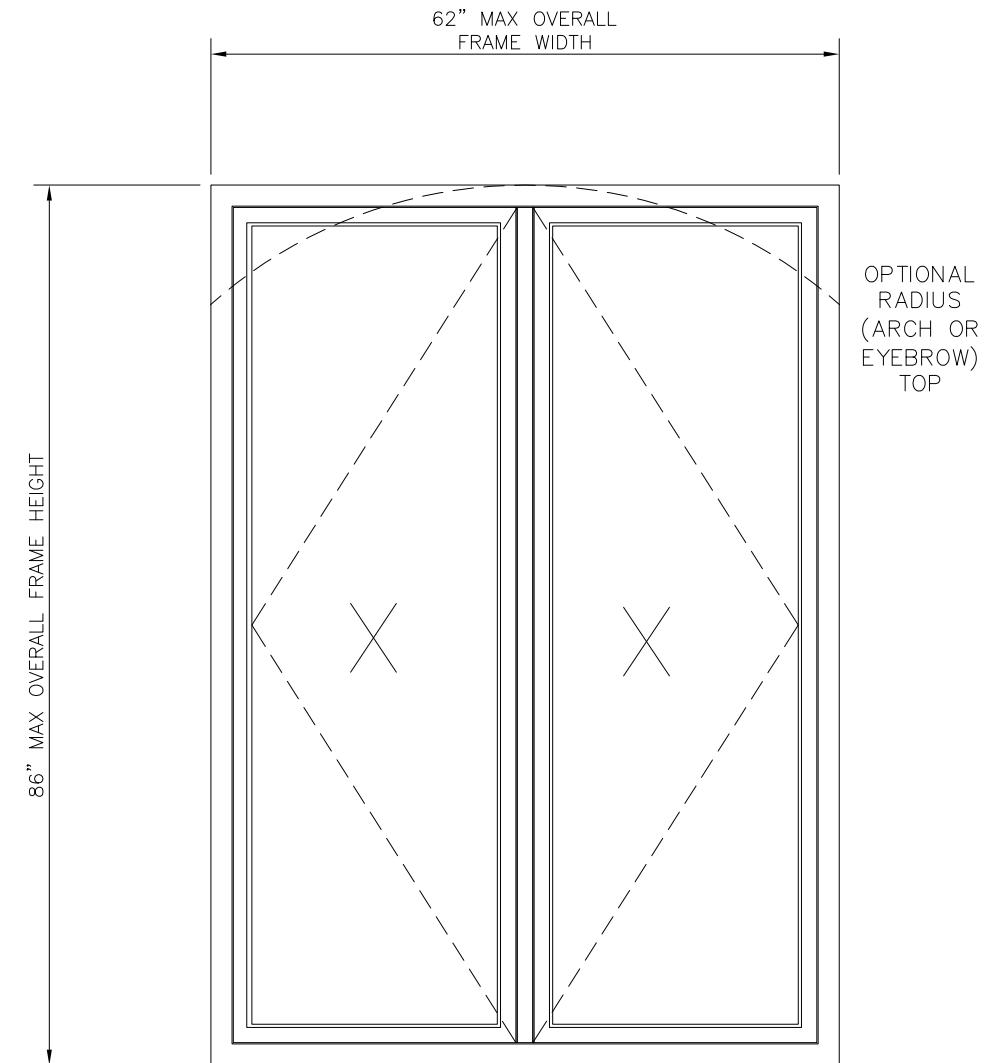


# FRENCH CASEMENT WINDOW – INSWING / OUTSWING – "IMPACT" BY OWW LLC

DESIGN PRESSURE = + 75.0 PSF, – 75.0 PSF

## GENERAL NOTES

1. This product has been evaluated and is in compliance with 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base materials shall be beyond wall dressing or stucco. All anchors used shall be of a material or have a coating compatible with pressure treated wood if used, and all other window materials.
3. When used in the "HVHZ" this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
4. The opening substrate materials (framing, masonry, bucks) are by others and must be properly designed and installed to transfer superimposed loads to the structure. For 2X stud framing construction, anchoring of these units shall be the same as that shown for 2X buck masonry construction. Wood bucks over masonry, if used, shall be pressure treated, with either a treatment or coating compatible with this product and anchors.
5. All window frame wood to be Specific Gravity = 0.50 min. (Mahogany or similar).
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. This product has been laboratory tested to meet the water infiltration requirements for "HVHZ." Sealing and flashing strategies for overall water infiltration resistance of the field-installed product shall be the responsibility of others and are not addressed by this document.

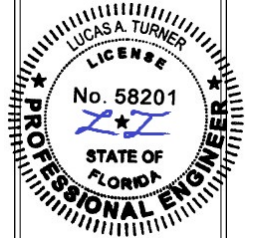


## TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Horizontal cross sections
3	Vertical cross sections
4	Vertical cross sections
5	Hardware details
6	Buck and frame anchoring
7	Sash, frame & glazing components
8	Bill of materials, glazing details

TABLE 1. QUALIFIED ANCHOR INFORMATION

ID	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	SOLID UNCRACKED CONCRETE (3050 PSI MIN.)	1/4" DEWALT COATED CARBON STEEL ULTRACON+	1 3/8"	1"
B	GROUT-FILLED CMU (ASTM C-90) (JAMBS ONLY)	1/4" DEWALT COATED CARBON STEEL ULTRACON+	1 3/4"	2 1/2"
C	SOLID UNCRACKED CONCRETE (2000 PSI MIN.)	1/4" ITW COATED CARBON STEEL TAPCON W/ ADVANCED THREADFORM	1 1/2"	1 1/2"
D	HOLLOW CMU (117 PCF MIN.) (JAMBS ONLY)	1/4" ITW COATED CARBON STEEL TAPCON W/ ADVANCED THREADFORM	1"	2"
E	CONCRETE (3000 PSI MIN)	1/4" HILTI COATED CARBON STEEL KWIK-CON+	1"	2 1/2"
F	HOLLOW OR GROUT-FILLED CMU (ASTM C-90) (JAMBS ONLY)	1/4" HILTI COATED CARBON STEEL KWIK-CON+	1"	2 1/2"
G	2x MIN. SOUTHERN PINE WOOD (G=0.55 MIN)	#12 GRADE 5 WOOD SCREW	1 1/2"	1"
H	16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN.) OR 1/8" MIN. ALUMINUM (6063-T5 MIN.)	#14 ITW TEKS SELF-DRILLING SCREW	FULL + 3 THREADS	1/2"



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LUCAS A. TURNER, P.E. FL PE 58201  
TURNER ENGINEERING & CONSULTING, INC.  
PH. 941-380-1574  
2428 OLD MATCHEZ TRACE TRAIL  
CAMDEN, TN 38320

OWW LLC  
3001 Tuvedo Ave., West Palm Beach, FL 33405  
Ph. 561-478-7233 Fax 561-478-7858

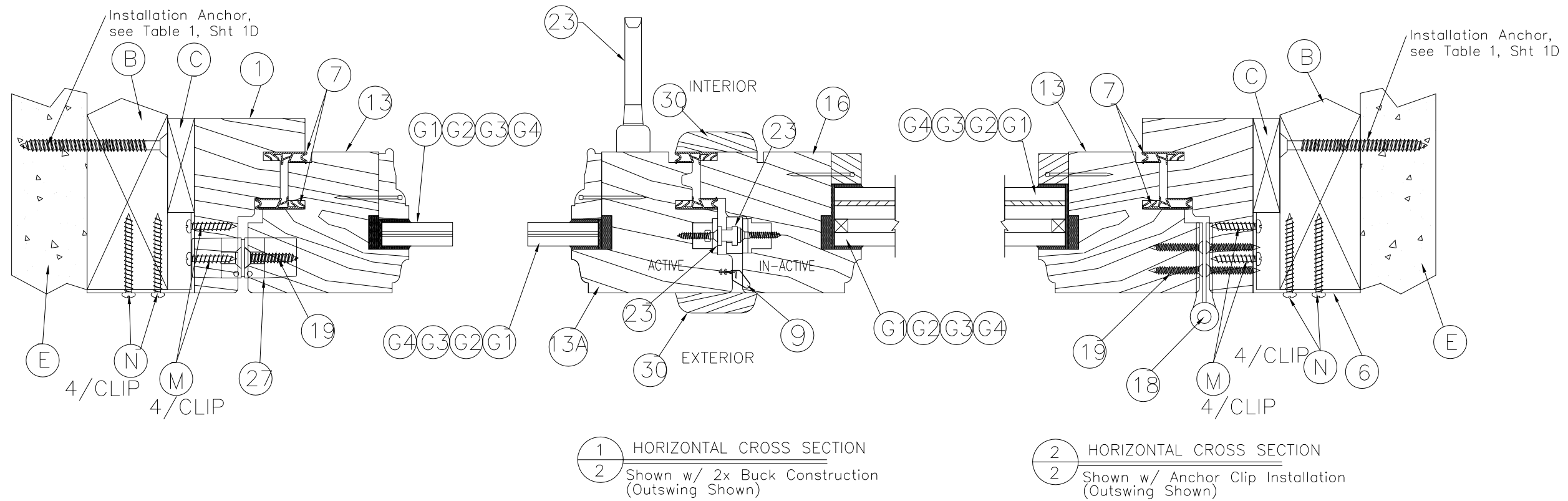
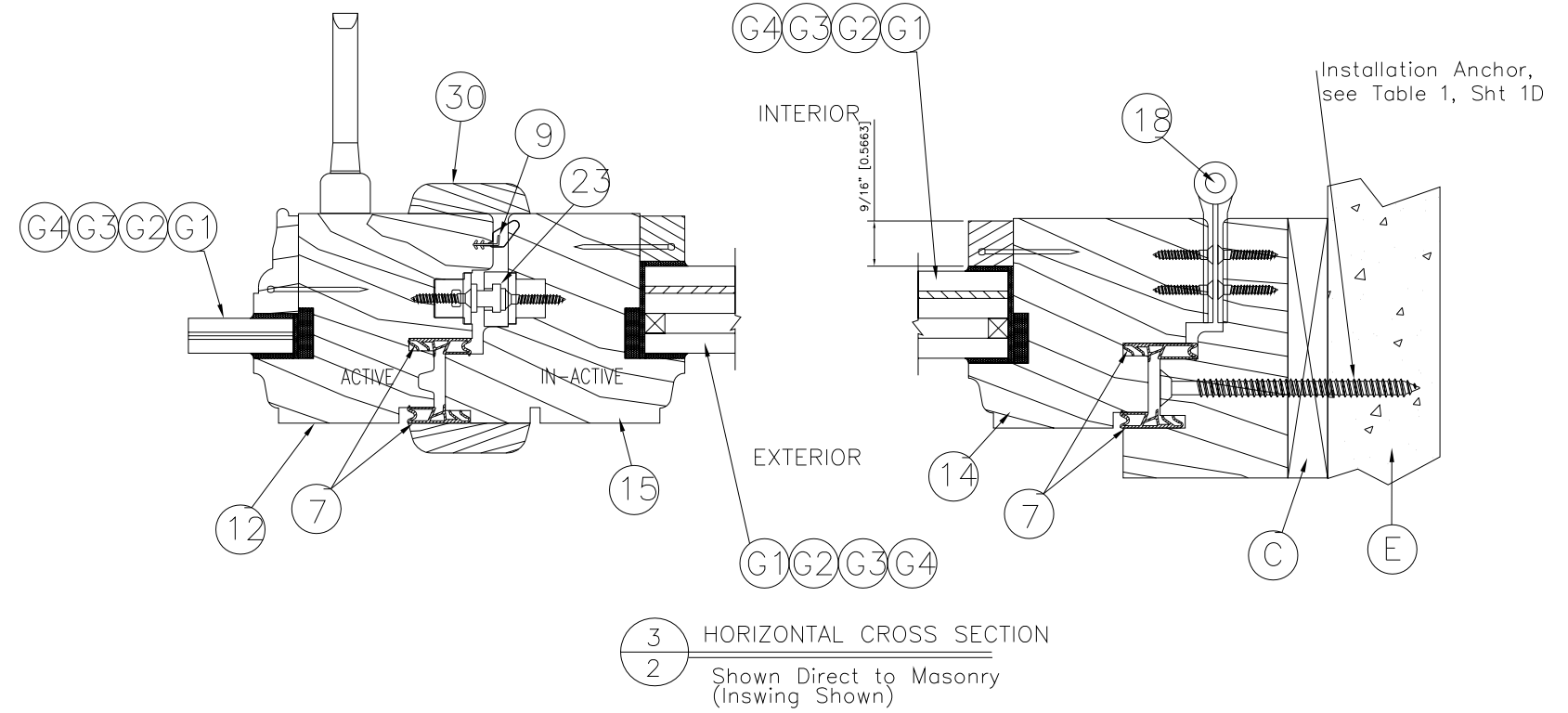
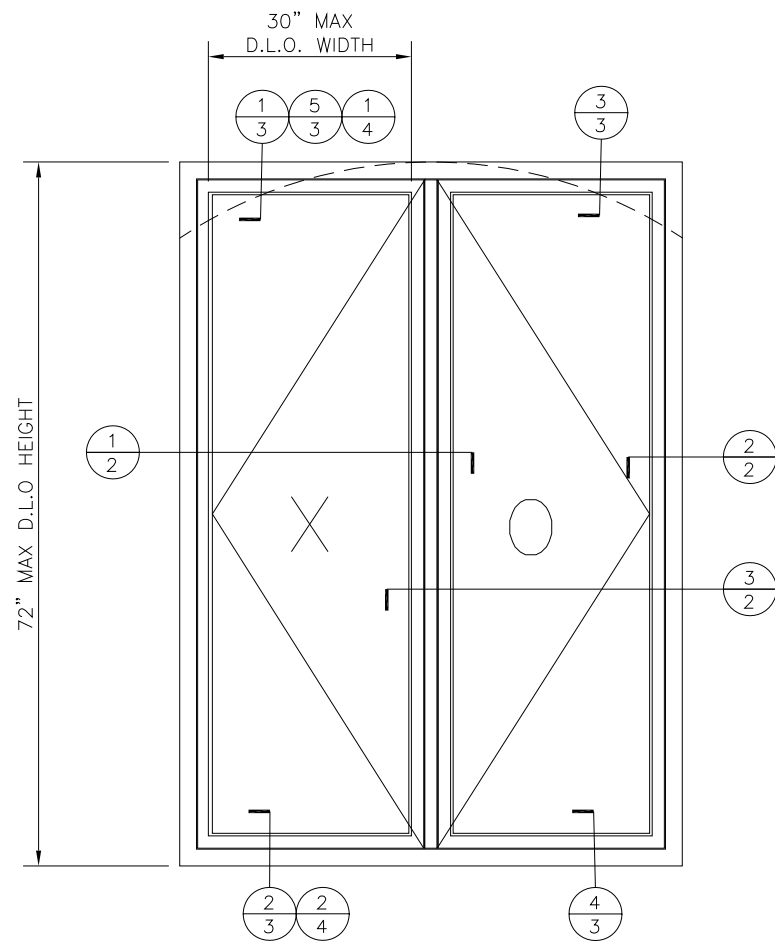
Product: WOOD FRENCH CASEMENT WINDOW

TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

Date: 10-5-15  
Scale: None  
Drawn: JDS

Dwg: CA-XX-FR  
FL34942.4

Sheet No.  
1D OF 8



10/18/2023

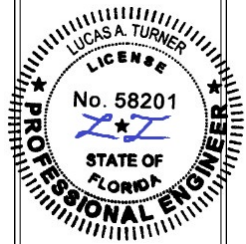
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OWW LLC  
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HORIZONTAL CROSS SECTIONS

Product: WOOD FRENCH CASEMENT WINDOW  
Date: 10-5-15  
Scale: None  
Drawn: JDS

Dwg: CA-XX-FR  
FL34942.4  
Sheet No.  
2D OF 8



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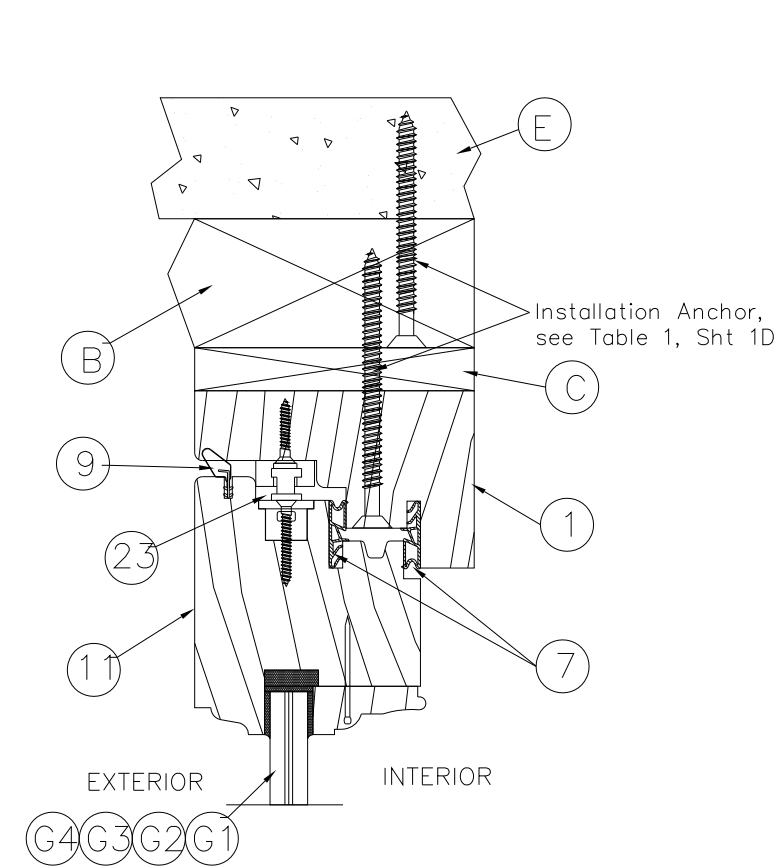
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Product: WOOD FRENCH CASEMENT WINDOW

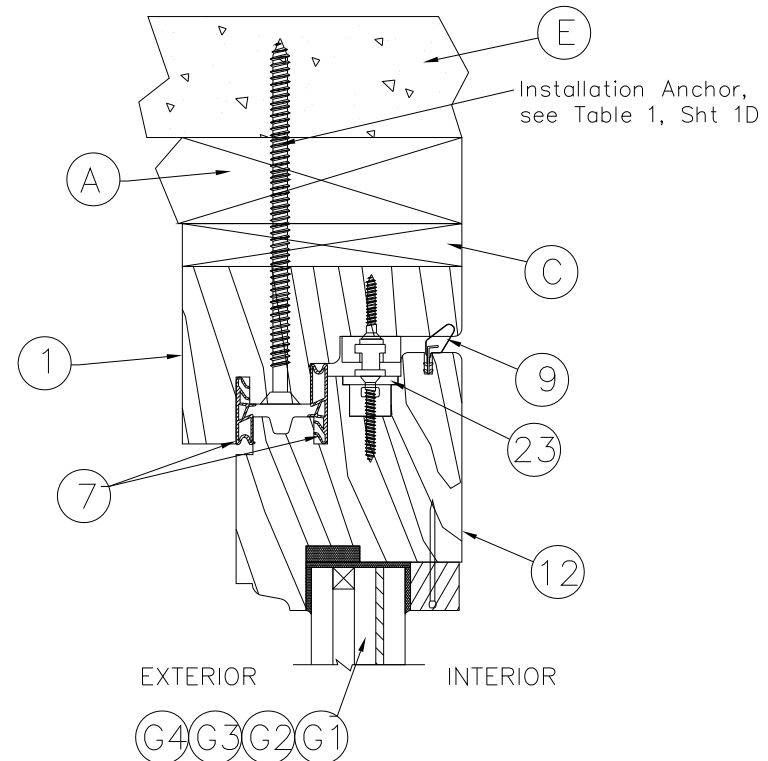
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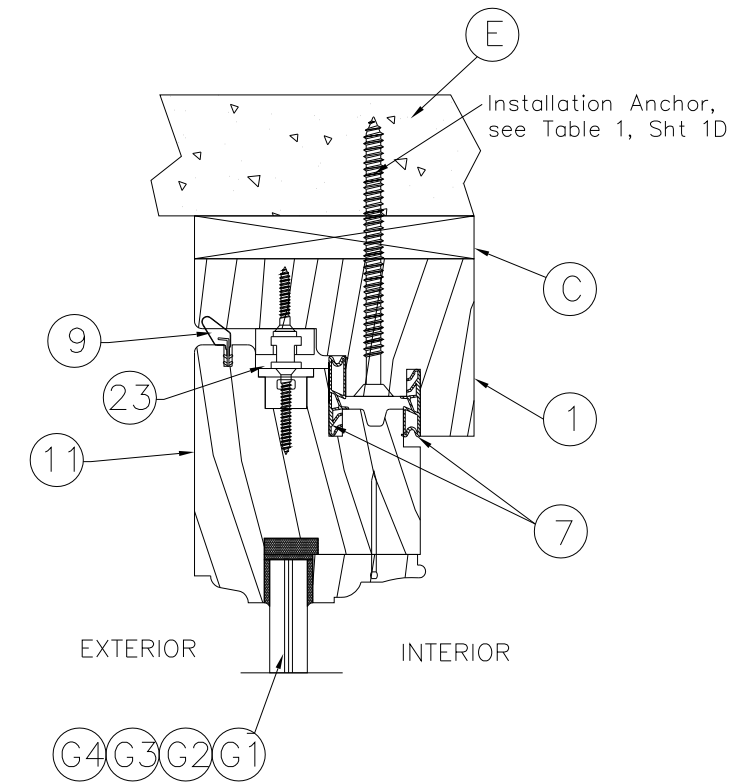
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 FL34942.4  
 Sheet No.  
 3D OF 8



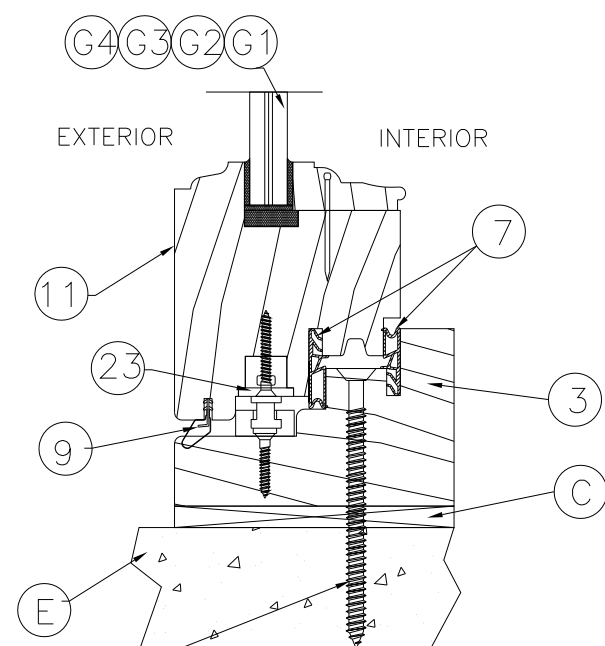
1 VERTICAL CROSS SECTION  
 3 Shown w/ 2X Buck Construction (Outswing Shown)



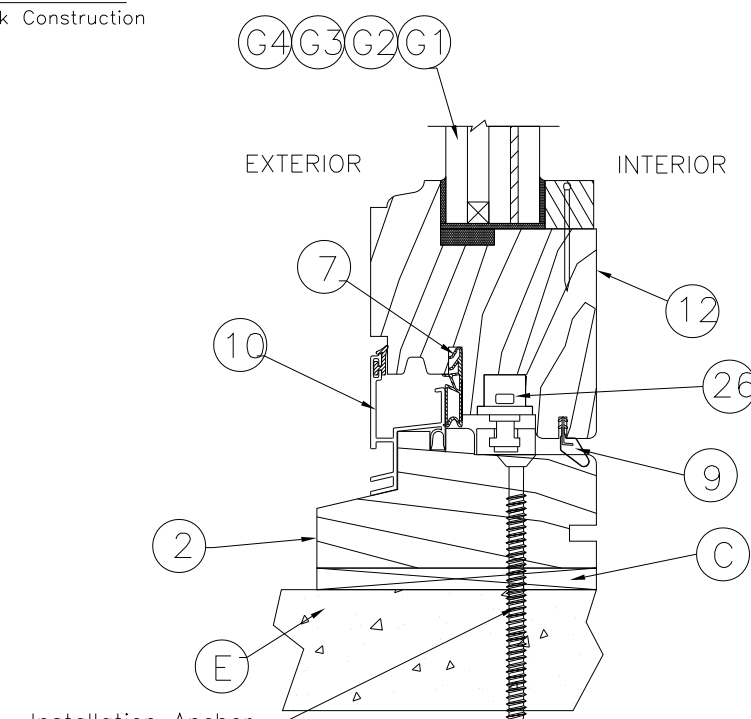
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 3 Shown w/ 1X Buck Construction (Inswing Shown)



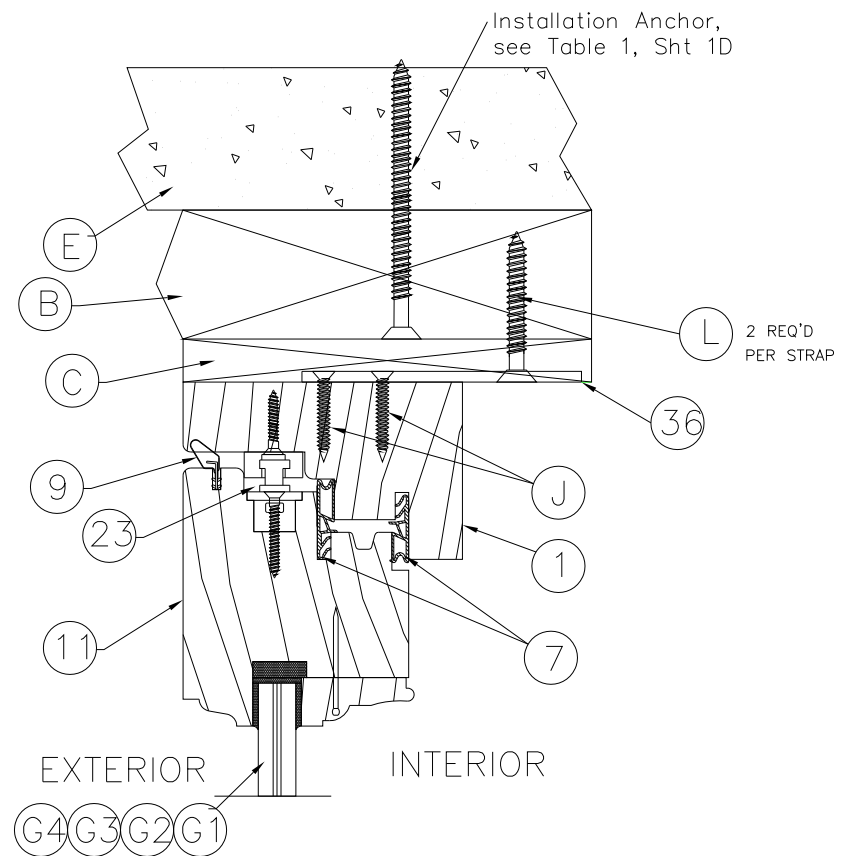
5 VERTICAL CROSS SECTION  
 3 Shown direct to masonry (Outswing Shown)



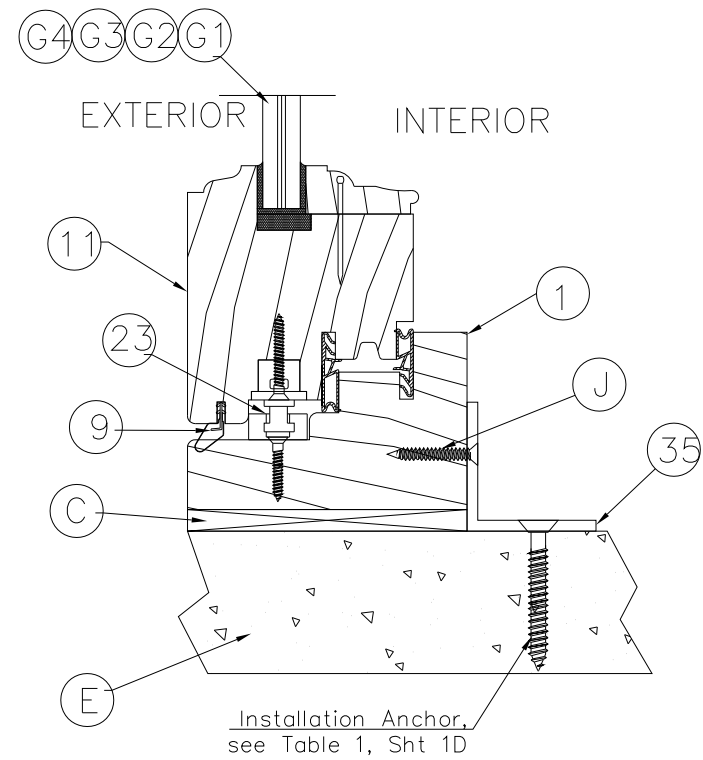
2 VERTICAL CROSS SECTION  
 3 Shown direct to masonry (Outswing Shown)



4 VERTICAL CROSS SECTION  
 3 Shown direct to masonry (Inswing Shown)



1 VERTICAL CROSS SECTION  
 4 Shown w/ 2X Buck Construction w/ Steel Strap Anchor



2 VERTICAL CROSS SECTION  
 4 Shown direct to masonry w/ Aluminum Sill Anchor



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 3001 Tuvedo Ave., West Palm Beach, FL 33405  
 Ph. 561-478-7233 Fax 561-478-7858

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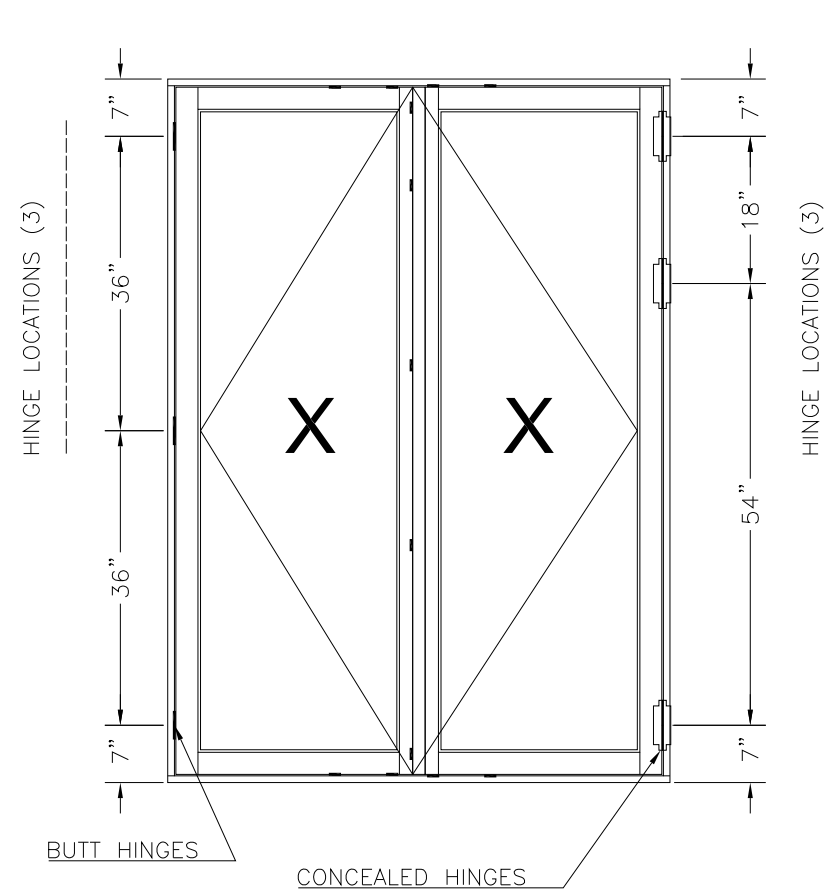
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VERTICAL  
 CROSS SECTIONS

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 FL34942.4

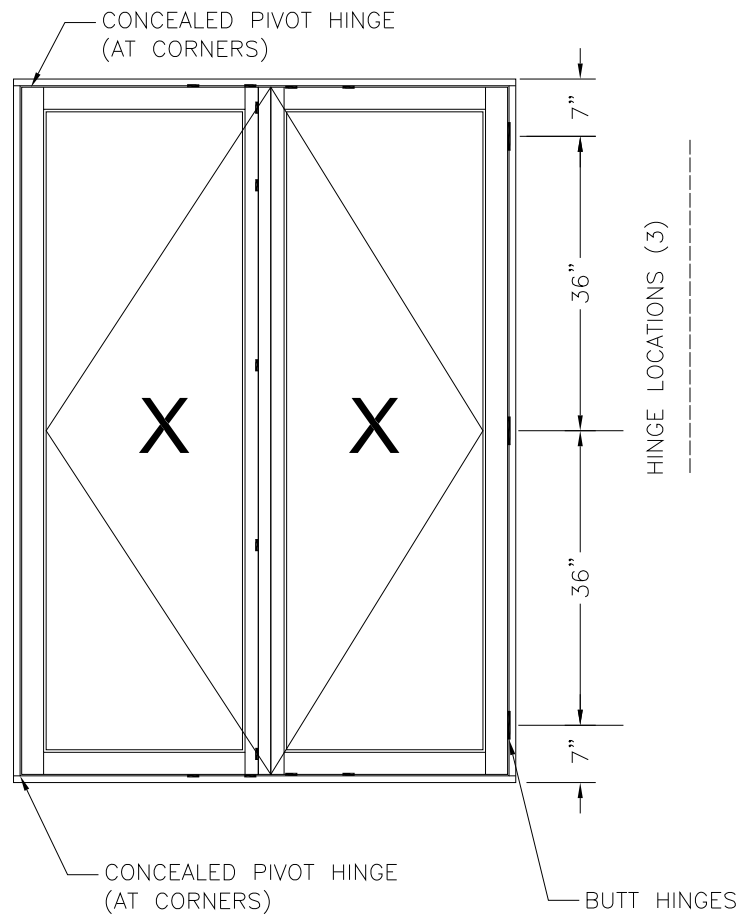
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 4D OF 8

## HARDWARE OPTIONS



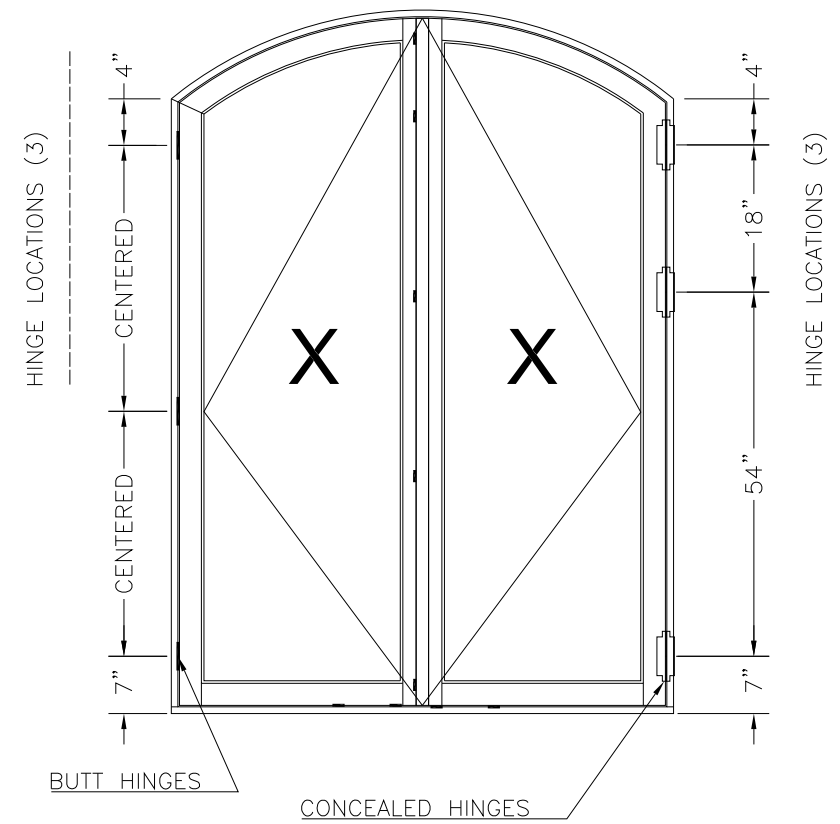
HARDWARE (PER SASH)

DESCRIPTION	QTY.	MANUFACTURER
MULTI-POINT LOCK	1	SEGENIA GU
3.5" x 3.5" BUTT HINGES or CONCEALED PIVOT HINGES	3	McKINNEY SOSS #212



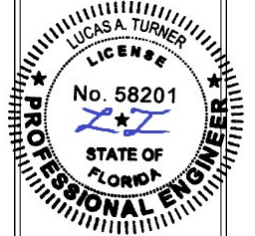
HARDWARE (PER SASH)

DESCRIPTION	QTY.	MANUFACTURER
MULTI-POINT LOCK	1	SEGENIA GU
CONCEALED PIVOT HINGES or 3.5" x 3.5" BUTT HINGES	2 3	GU (CONTURA) McKINNEY



HARDWARE (PER SASH)

DESCRIPTION	QTY.	MANUFACTURER
MULTI-POINT LOCK	1	SEGENIA GU
3.5" x 3.5" BUTT HINGES or CONCEALED PIVOT HINGES	3	McKINNEY SOSS #212



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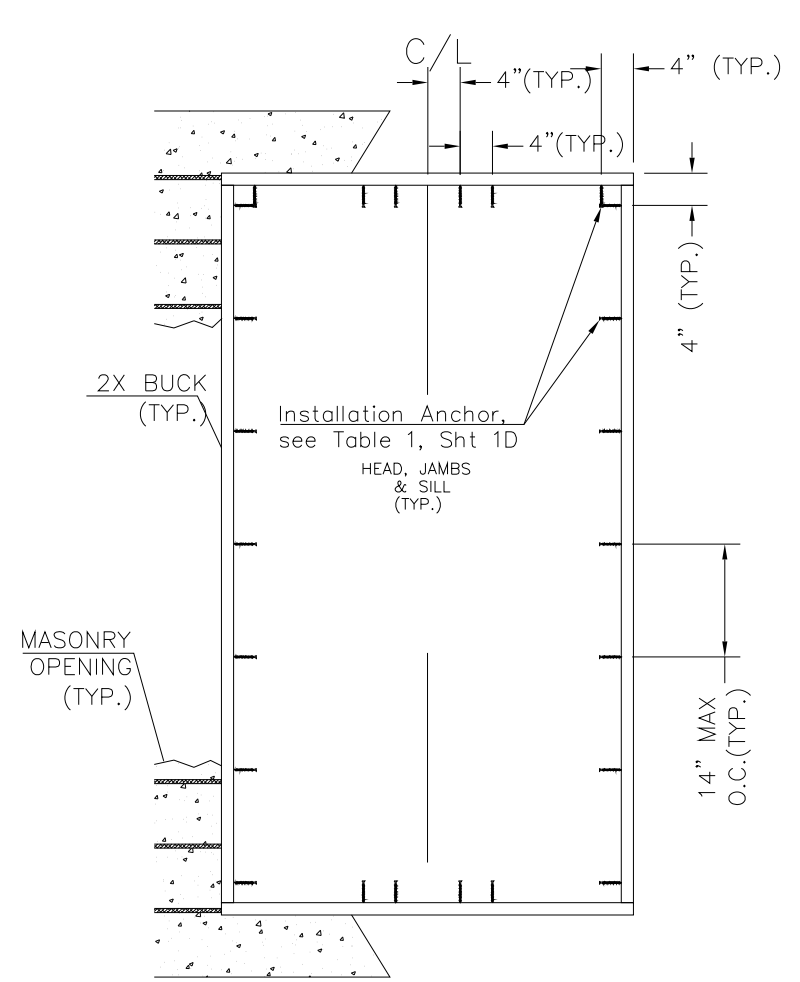
HARDWARE DETAILS

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Drawn: JDS

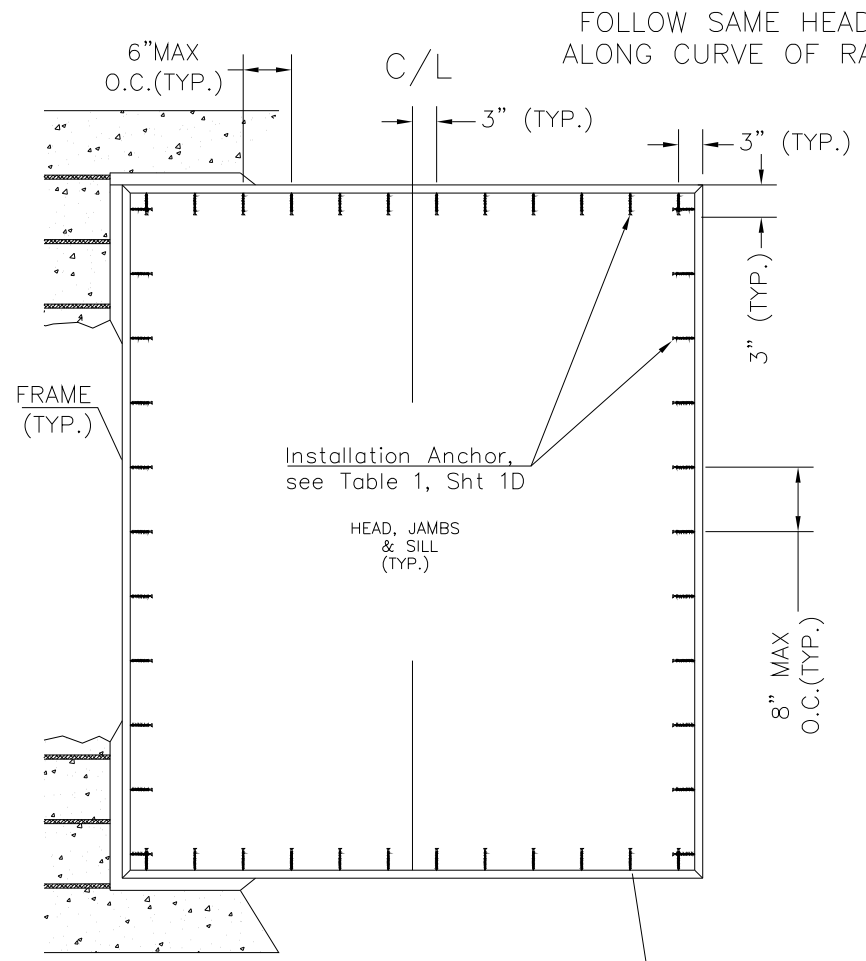
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Sheet No.  
5D OF 8

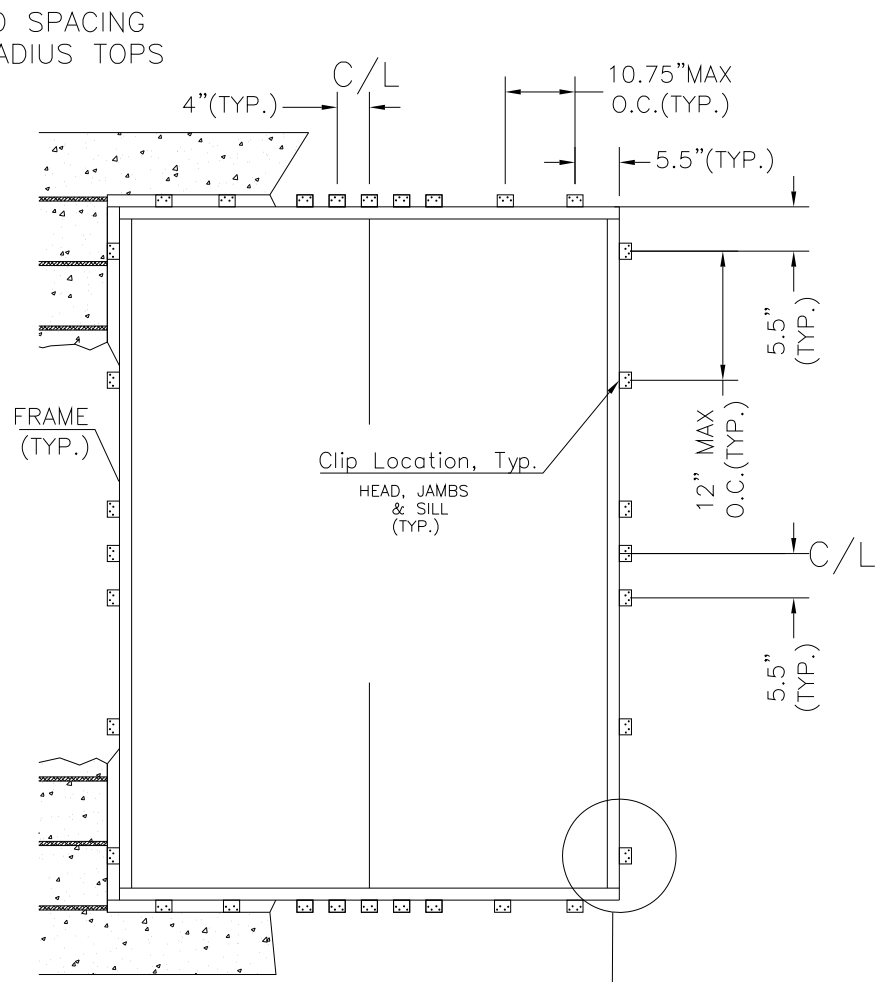




**BUCK ANCHORING**  
Masonry construction

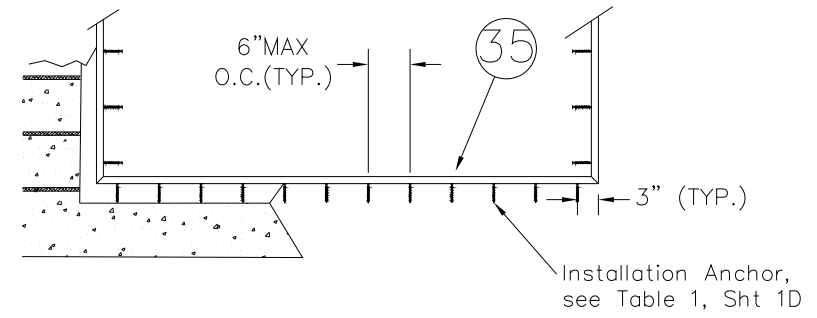


**FRAME ANCHORING**  
(Through the Frame Anchoring)

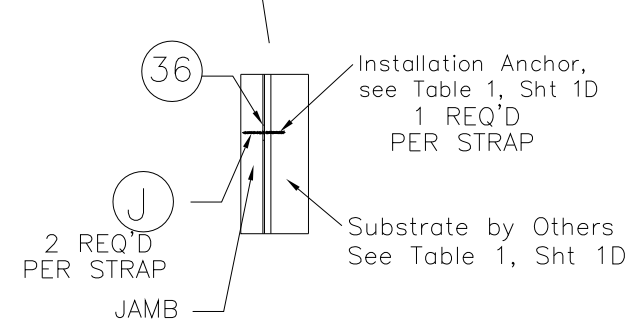


**FRAME ANCHORING**  
(Anchor Clip Installation)

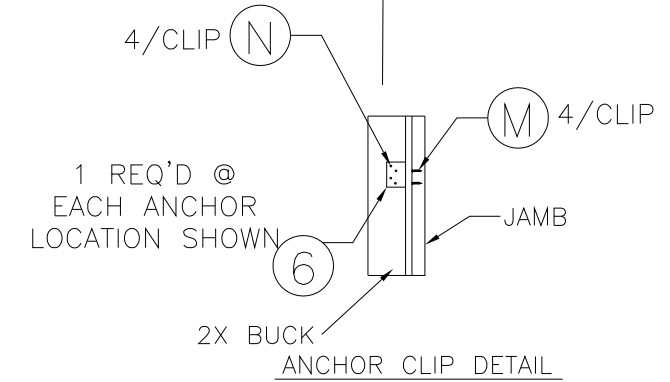
NOTE: STAGGER ANCHORS AS NEEDED TO ENSURE 4" MIN. SEPARATION BETWEEN ANY TWO BUCK AND/OR THROUGH-FRAME ANCHORS, WHILE NOT EXCEEDING MAX. ANCHOR SPACINGS NOTED IN DETAILS (MAY NEED ADDITIONAL FASTENERS).



**ALTERNATE ALUMINUM SILL ANCHORING**

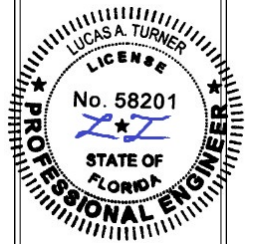


**ALTERNATE STEEL STRAP ANCHORING**



**ANCHOR CLIP DETAIL**

FOLLOW SAME HEAD SPACING ALONG CURVE OF RADIUS TOPS



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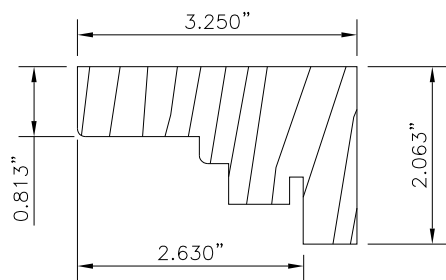
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Ph. 561-478-7233 Fax 561-478-7858

Product: WOOD FRENCH CASEMENT WINDOW  
Date: 10-5-15  
Scale: None  
Drawn: JDS

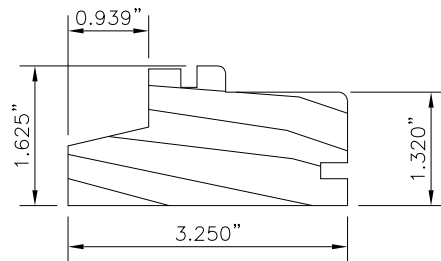
BUCK & FRAME ANCHORING

Dwg: CA-XX-FR  
FL34942.4  
Sheet No.  
6D OF 8

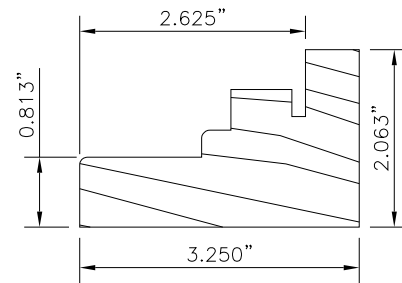
NOTE: ALL WOOD PROFILE DIMENSIONS ARE MINIMUMS



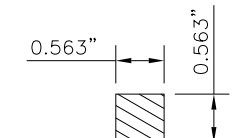
1 FRAME TOP & LEGS  
Inswing & Outswing



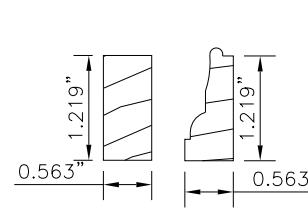
2 FRAME SILL  
Inswing



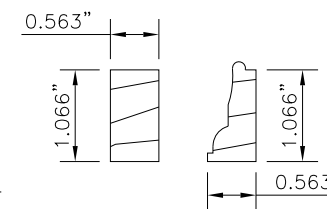
3 FRAME SILL  
Outswing



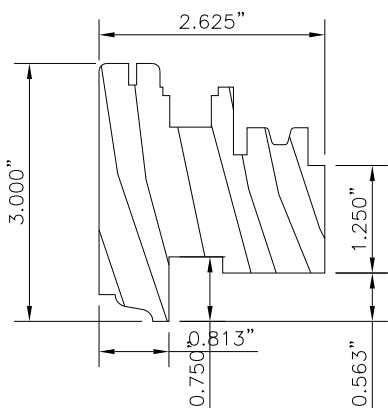
4 GLAZING BEAD  
I.G.



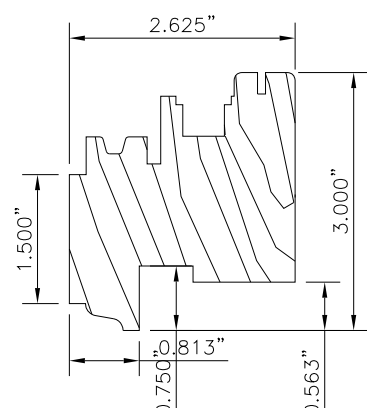
5 GLAZING BEAD  
7/16" MONO.



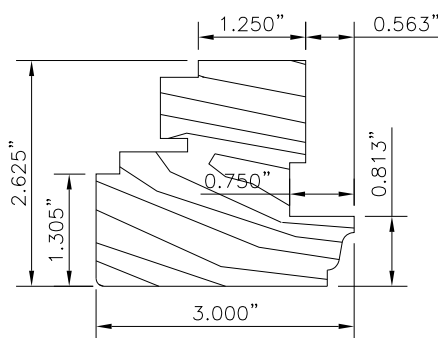
5A GLAZING BEAD  
9/16" MONO.



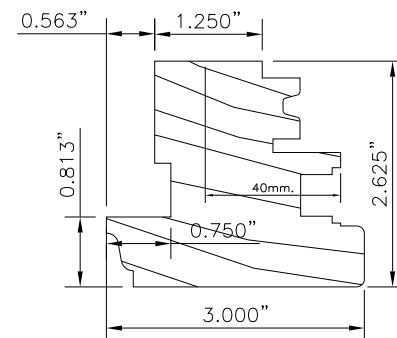
11 SASH RAIL  
Outswing Top & Bottom



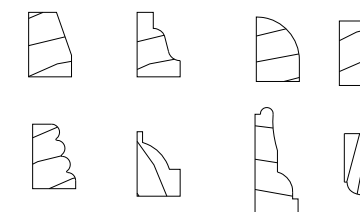
12 SASH RAIL  
Inswing Top & Bottom



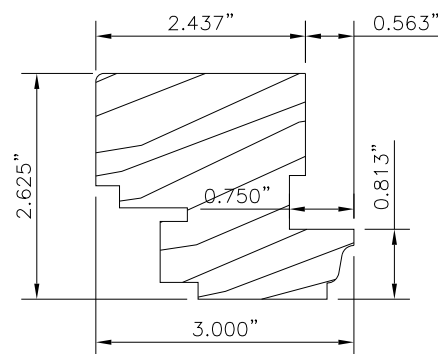
13 SASH STILE  
Outswing To Be Hinged



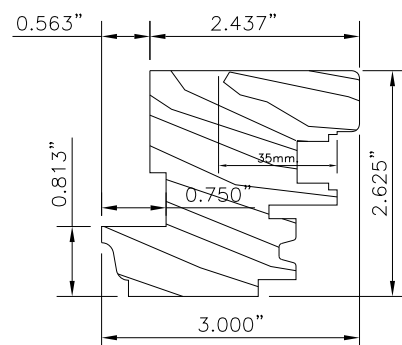
13A SASH STILE  
Outswing Active for Lock Hardware



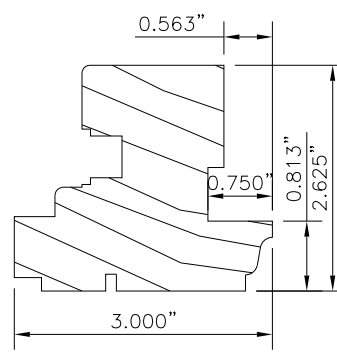
SASH AND BEAD PROFILES CAN BE CUSTOMIZED PER MANUFACTURER OR CUSTOMER'S OPTION. SUCH AS (BUT NOT LIMITED TO THOSE SHOWN ABOVE)



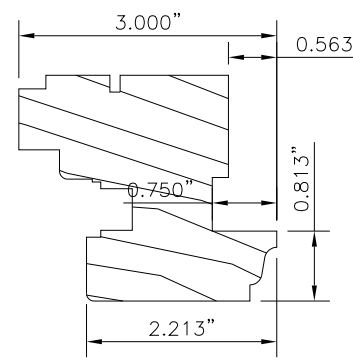
14 SASH STILE  
Inswing To Be Hinged



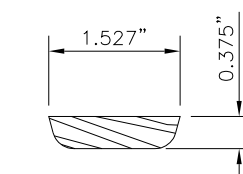
14A SASH STILE  
Inswing Active for Lock Hardware



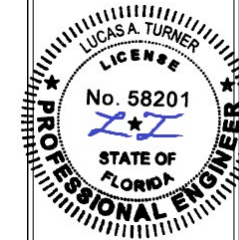
15 SASH STILE  
Inswing Inactive for Lock



16 SASH STILE  
Outswing Inactive for Lock



30 MTG. STILE COVER



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Product: WOOD FRENCH CASEMENT WINDOW

SASH, FRAME, AND  
GLAZING COMPONENTS

Date: 10-5-15

Scale: None

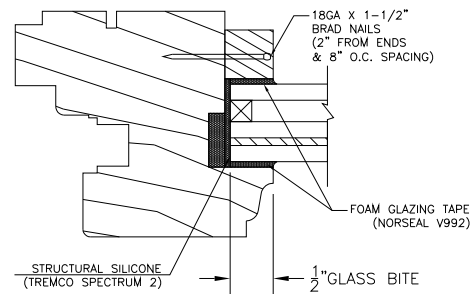
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Dwg: CA-XX-FR  
FL34942.4

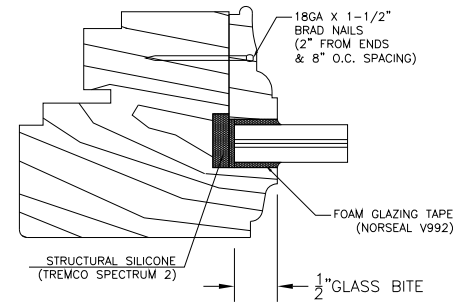
Sheet No.  
7D OF 8

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG>=0.55)	WOOD
B	2X BUCK (SG>=0.55)	WOOD
C	1/2" MAX.SHIM SPACE	-
E	SOLID CONCRETE CONFORMING TO ACI 301 OR CMU BLOCK CONFORMING TO ASTM C90 (SEE TBL 1, SHT 1)	MASONRY
H	#8 X 1" PFH WOOD SCREW	STEEL
J	#10 X 1" PFH WOOD SCREW	STEEL
L	#12 X 1-3/4" PFH WOOD SCREW	STEEL
M	#8 X 3/4" PPH SMS	STEEL
N	#8 X 1-1/2" PPH SMS	STEEL
1	FRAME TOP OR LEG (INSWING OR OUTSWING)	WOOD
2	FRAME SILL (INSWING)	WOOD
3	FRAME SILL (OUTSWING)	WOOD
4	GLAZING BEAD (I.G.)	WOOD
5	GLAZING BEAD (7/16 MONO.)	WOOD
5A	GLAZING BEAD (9/16 MONO.)	WOOD
6	ANCHOR BRACKET (SIMPSON STRONG-TIE A23Z)	STEEL
7	WEATHERSTRIP ROVER PLASTIK 142AC OR SIMILAR	-
8	WEATHERSTRIP (SEALMAX TIMBERSEAL)	-
9	WEATHERSTRIP (Q-LON 320)	-
10	DRAINAGE CHANNEL (2090 SERIES) W/ GU 204 GASKET	ALUM
11	SASH RAIL OUTSWING	WOOD
12	SASH RAIL INSWING	WOOD
13	SASH STILE OUTSWING (W / HINGE)	WOOD
13A	SASH STILE OUTSWING ACTIVE	WOOD
14	SASH STILE INSWING (W / HINGE)	WOOD
14A	SASH STILE INSWING ACTIVE	WOOD
15	SASH STILE INSWING INACTIVE	WOOD
16	SASH STILE OUTSWING INACTIVE	WOOD
18	3.5" X 3.5" BUTT HINGE	STEEL
19	#10 X 1" PFH WOOD SCREWS	STEEL
23	MULTI-POINT HARDWARE (SEGENIA-GU OR SIMILAR)	-
26	CONCEALED PIVOT HINGE (GU)	-
27	CONCEALED HINGE (SOSS #212)	-
30	MTG. STILE COVER	WOOD
35	ALUMINUM SILL ANCHOR(6063-T6)	ALUM
36	STEEL ANCHOR STRAP	STEEL
37	SIMPSON STRONG TIE A23Z	STEEL

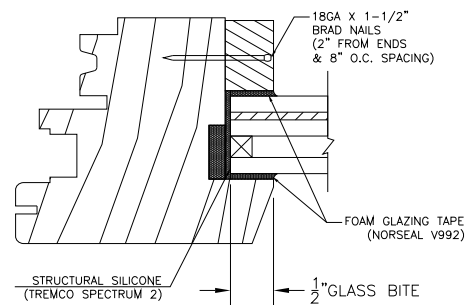
NOTE: ALL WINDOW FRAME WOOD: SG=0.50 MIN. (MAHOGANY OR SIMILAR)



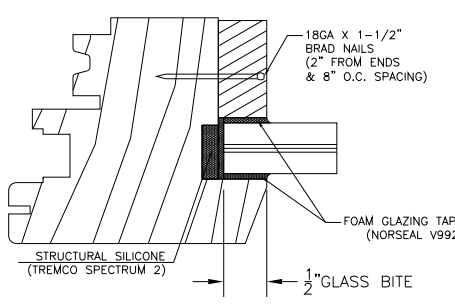
G1 GLAZING DETAIL



G2 GLAZING DETAIL



G3 GLAZING DETAIL



G4 GLAZING DETAIL

GLASS TYPES AND STRUCTURE

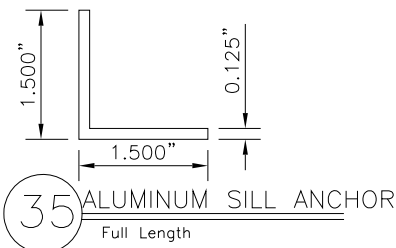
G1. 7/8" (NOM.) LAMINATED INSULATING GLASS  
 1/8" EXTERIOR HEAT STRENGTHENED (IN HVHZ, ALLOWED ONLY WITHIN 30 FT OF GRADE) OR FULLY TEMPERED /  
 1/4" AIR SPACE WITH ALUMINUM SPACER /  
 3/16" ANNEALED  
 .075" INTERLAYER: SAFLEX CP BY EASTMAN CHEMICAL COMPANY /  
 3/16" ANNEALED

G2. 7/16" (NOM.) LAMINATED GLASS  
 3/16" HEAT STRENGTHENED /  
 .075" INTERLAYER: SAFLEX CP BY EASTMAN CHEMICAL COMPANY /  
 3/16" HEAT STRENGTHENED

G3. 7/8" (NOM.) LAMINATED INSULATING GLASS  
 3/16" EXTERIOR HEAT STRENGTHENED (IN HVHZ, ALLOWED ONLY WITHIN 30 FT OF GRADE) OR FULLY TEMPERED /  
 1/4" AIR SPACE WITH ALUMINUM SPACER /  
 3/16" ANNEALED  
 .090" INTERLAYER: SENTRYGLAS BY KURARAY /  
 3/16" ANNEALED

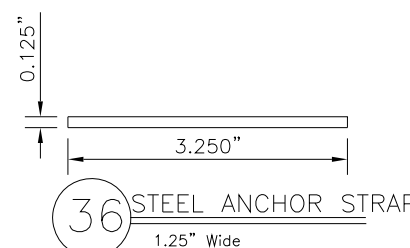
G4. 9/16" (NOM.) LAMINATED GLASS  
 1/4" HEAT STRENGTHENED /  
 .090" INTERLAYER: SENTRYGLAS BY KURARAY /  
 1/4" HEAT STRENGTHENED

7 Weatherseal Rover Plastik 142 AC



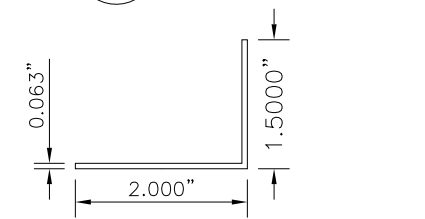
35 ALUMINUM SILL ANCHOR Full Length

9 Weatherstrip Q-LON 320

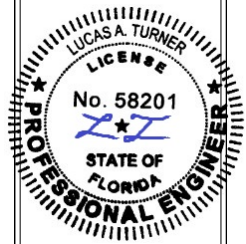


36 STEEL ANCHOR STRAP 1.25" Wide

10 DRAINAGE CHANNEL



37 SIMPSON STRONG TIE A23Z



10/18/2023

TE&C  
 LUCAS A. TURNER, P.E. FL PE 58201  
 TURNER ENGINEERING & CONSULTING, INC.  
 PH. 941-380-1574  
 2428 OLD MATCHEZ TRACE TRAIL  
 CAMDEN, TN 38320

OWW LLC  
 3001 Tuvedo Ave., West Palm Beach, FL 33405  
 Ph. 561-478-7233 Fax. 561-478-7858

Product: WOOD FRENCH CASEMENT WINDOW  
 BILL OF MATERIALS, COMPONENTS & GLAZING DETAILS

Date: 10-5-15  
 Scale: None  
 Drawn: JDS

Dwg: CA-XX-FR  
 FL34942.4  
 Sheet No.  
 8D OF 8