PLYCO CORPORATION

SERIES 95EV FLUSH STEEL INSWING DOOR (NON-IMPACT)

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN UNLESS OTHERWISE NOTED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
5. FOR INSTALLATION INTO WOOD FRAMING USE **#10 WOOD SCREWS** OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6. FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE **3/16 INCH DIAMETER ITW TAPCONS** OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
7. FOR INSTALLATION INTO STEEL STUD FRAME USE **#10-16 TEK SCREWS** OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREADS PENETRATION BEYOND STEEL STRUCTURE.
8. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
9. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
10. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
11. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
12. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
    A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
    B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 2700 PSI.
    C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER), MIN. COMPRESSIVE STRENGTH = 1.5 KSI.
    D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 48 MILS (18 GAUGE).

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2006 INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL RESIDENTIAL CODE (IRC) WITH 2006 TEXAS REVISIONS, EFFECTIVE JANUARY 1, 2008 EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
    - AAMA/WDMA/CSA 101/I.S.2/A440-05
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. FRAME MATERIAL: ALUMINUM 6063-T5 & CS-B STEEL

TABLE OF CONTENTS

SHEET	REVISION	SHEET DESCRIPTION
1	-	INSTALLATION & GENERAL NOTES
2	-	ELEVATION & ANCHOR LAYOUT
3	-	VERTICAL SECTIONS
4	-	HORIZONTAL SECTIONS
5	-	COMPONENTS & BILL OF MATERIALS

DESIGN PRESSURE RATING

LOCK TYPE	DESIGN PRESSURE - ALL SIZES		MISSILE IMPACT RATING
SINGLE POINT	+50.0 / -50.0 PSF *	W/O WATER INFILTRATION	NON-IMPACT
SINGLE POINT W/ DEAD BOLT	+75.0 / -75.0 PSF *	W/O WATER INFILTRATION	NON-IMPACT

*UNIT SHALL BE INSTALLED AT LOCATION PROTECTED BY OVERHANG SUC' '
THE OVERHANG RATIO (OH) = OH LENGTH/OH HEIGHT GREATER THAN 1.C
WHERE WATER INFILTRATION IS REQUIRED.

Digitally signed by Alex Spyrou
Reason: I am approving this document
Date: 2011.09.14 11:11:14 -04'00'

STATE OF TEXAS
ALEXIS SPYROU
102957
LICENSED
PROFESSIONAL ENGINEER

9-14-11

PLYCO CORPORATION
P.O. BOX 386
500 INDUSTRIAL RD.
ELKHART LAKE WI 53020
PH: (920) 876-3611 FX: (920) 876-3527

TITLE: SERIES 95EV FLUSH STEEL INSWING DOOR INSTALLATION & GENERAL NOTES

PREPARED BY:
CERTWORKS, LLC
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
(407) 644-6957 FX: (407) 644-2366

REVISIONS

NO.	DESCRIPTION	BY	DATE

ALEXIS SPYROU
TEXAS P.E. NO.102957
127 W. FAIRBANKS AVE. STE. 438
WINTER PARK, FL 32789

DATE: 8.31.11
DWN BY: JLA
CHK BY: HFN
SCALE: NTS

DWG #: PCO003

SHEET: 1 OF 5

9/2/2011 9:47 AM
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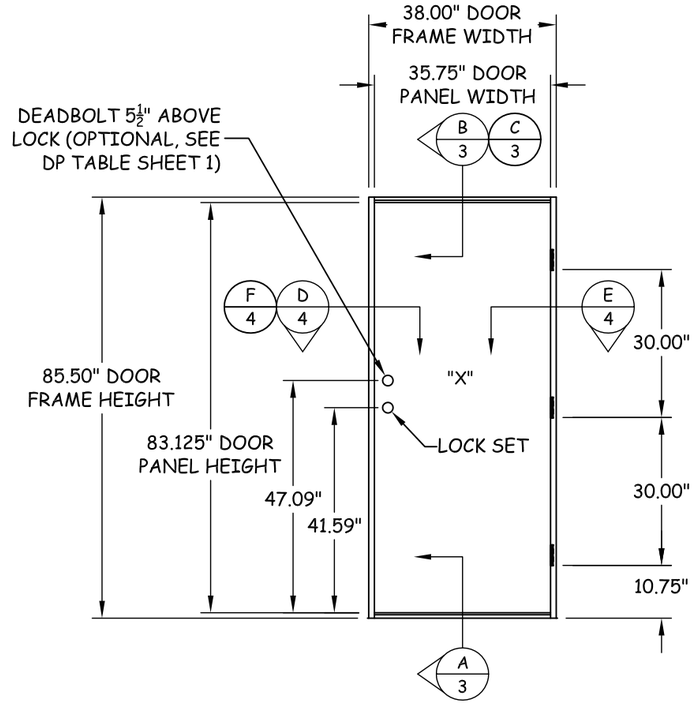
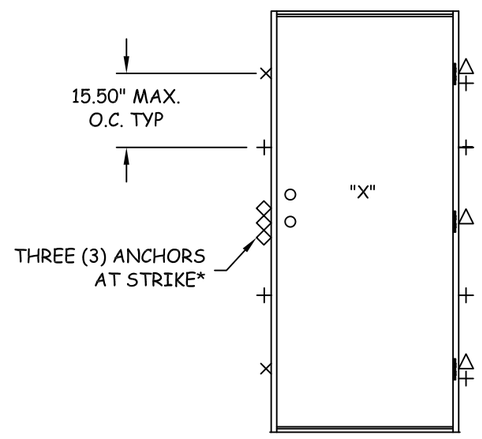


ELEVATION



ANCHOR LAYOUT

NOTE:
FOR WOOD & STEEL SUBSTRATES:
MINIMUM OF SEVEN (7) TOTAL ANCHORS REQUIRED PER JAMB. *NO ANCHORS AT HEAD OR SILL.*
FOR CONCRETE/MASONRY SUBSTRATES:
MINIMUM OF SIX (6) TOTAL ANCHORS REQUIRED AT LOCK JAMB & SEVEN (7) ANCHORS AT HINGE JAMB. *NO ANCHORS AT HEAD OR SILL.*

WHEN DEAD BOLT IS USED TWO (2) ADDITIONAL ANCHORS ARE REQUIRED AT DEAD BOLT STRIKE PLATE.

SEE SHEET 4 FOR SPECIFIC ANCHOR LOCATIONS.

*FOR MASONRY/CONCRETE INSTALLATIONS USE ONLY TWO (2) ANCHORS THROUGH STRIKE PLATE

LEGEND:

× ANCHOR THROUGH INNER FRAME

◇ ANCHOR THROUGH STRIKE PLATE (WHERE APPLICABLE)

+ ANCHOR THROUGH OUTER FRAME

△ ANCHOR THROUGH HINGE

9-14-11

PLYCO
PLYCO CORPORATION
P.O. BOX 386
500 INDUSTRIAL RD.
ELKHART LAKE WI 53020
PH: (920) 876-3611 FX: (920) 876-3527

TITLE: SERIES 95EV FLUSH STEEL INSWING DOOR ELEVATION & ANCHOR LAYOUT

PREPARED BY:
CERTWORKS, LLC
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
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SHEET: 2 OF 5

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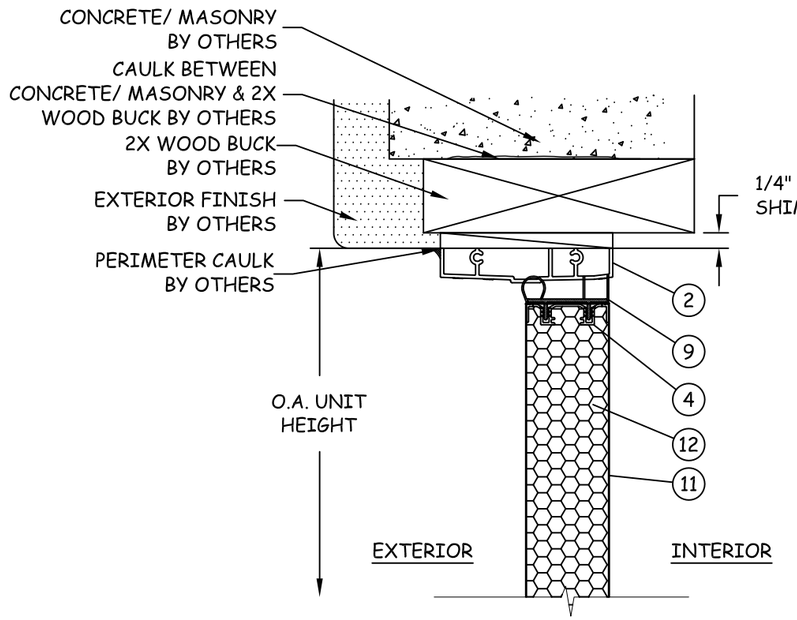
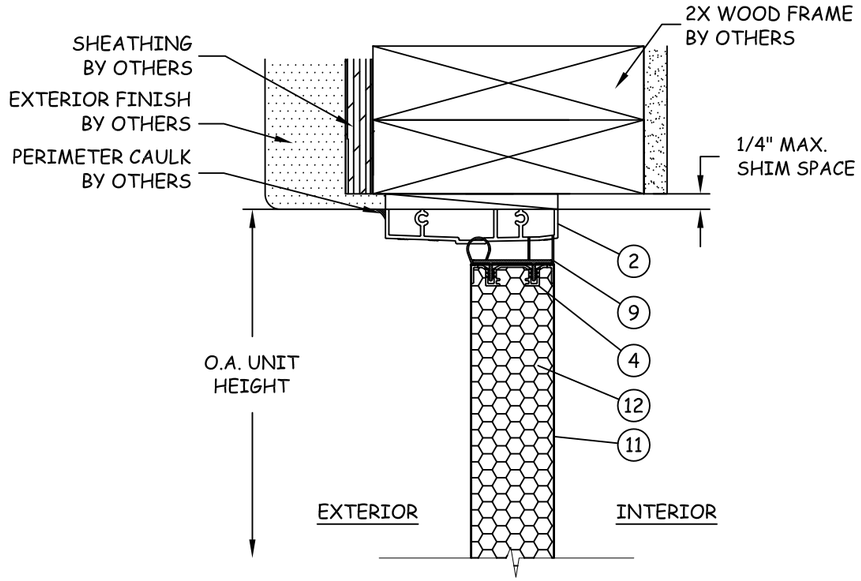
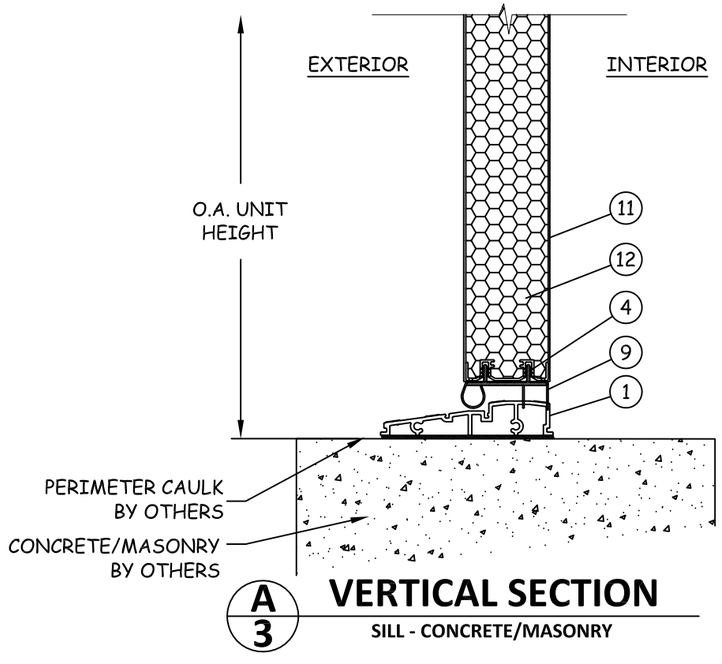


B/3 VERTICAL SECTION
HEAD - 2X WOOD BUCK



C/3 VERTICAL SECTION
HEAD - 2X WOOD FRAME



A/3 VERTICAL SECTION
SILL - CONCRETE/MASONRY

STATE OF TEXAS
ALEXIS SPYROU
102957
LICENSED
PROFESSIONAL ENGINEER

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TITLE: SERIES 95EV FLUSH STEEL INSWING DOOR VERTICAL SECTIONS

PREPARED BY:
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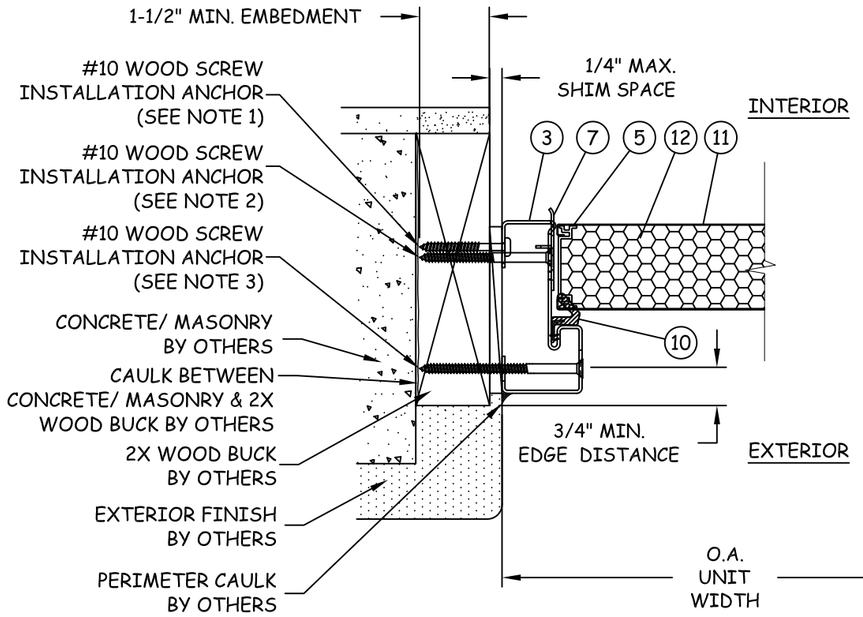
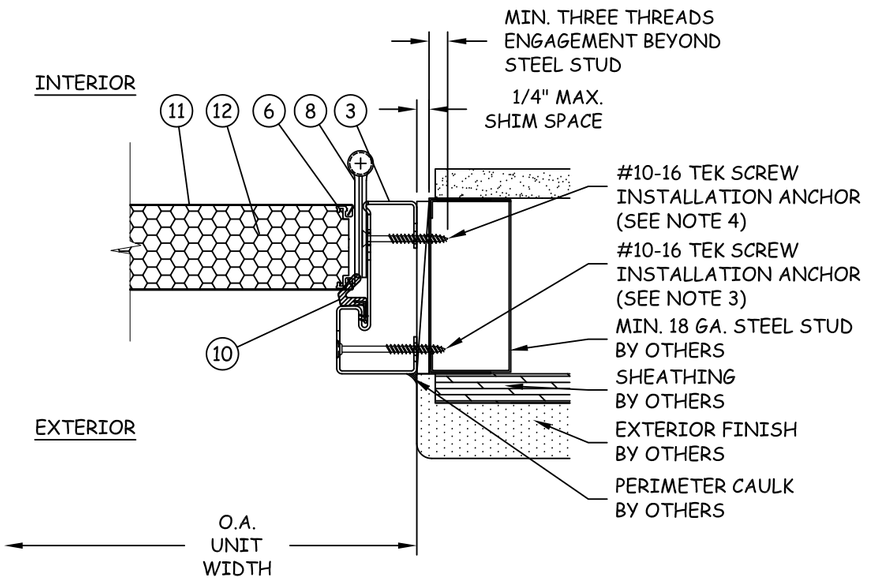


D/4 HORIZONTAL SECTION

JAMB - 2X WOOD BUCK, TYP.

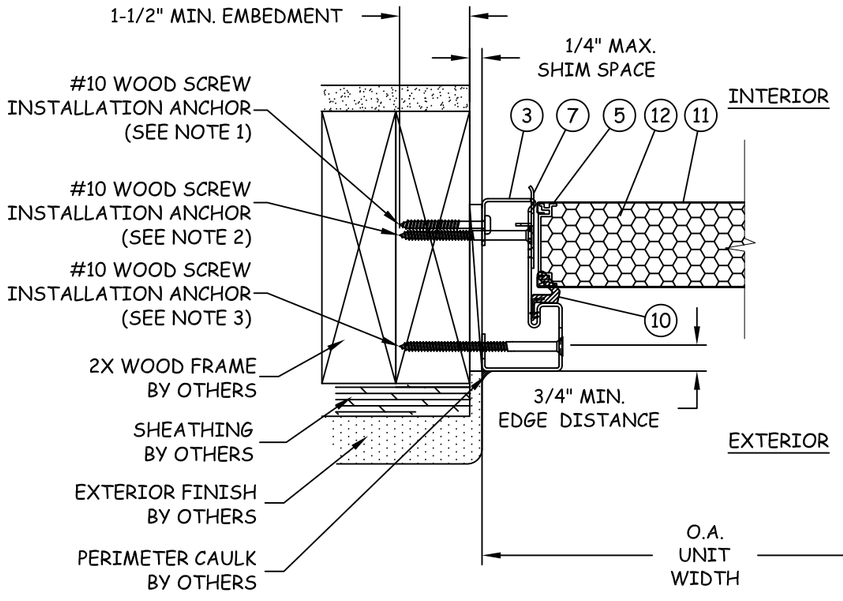


E/4 HORIZONTAL SECTION

JAMB - STEEL STUD, TYP.

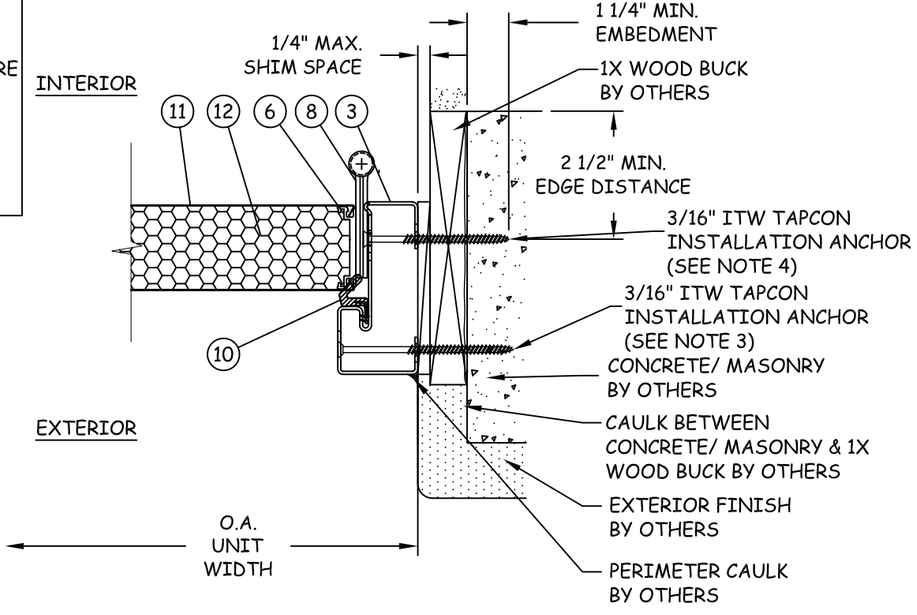
ANCHOR NOTES:

NOTE 1: ANCHOR THROUGH INNER FRAME
NOTE 2: ANCHOR THROUGH STRIKE PLATE (WHERE APPLICABLE)
NOTE 3: ANCHOR THROUGH OUTER FRAME
NOTE 4: ANCHOR THROUGH HINGE



F/4 HORIZONTAL SECTION

JAMB - 2X WOOD FRAME, TYP.



G/4 HORIZONTAL SECTION

JAMB - MASONRY/CONCRETE, TYP.

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TITLE: SERIES 95EV FLUSH STEEL INSWING DOOR HORIZONTAL SECTIONS

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(407) 644-6957 FX: (407) 644-2366

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8.31.11	JLA	HFN	NTS

DWG #: PCO003

SHEET: 4 OF 5

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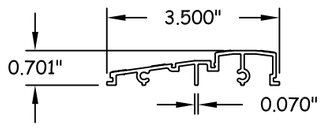
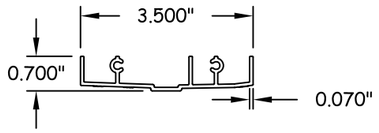
BILL OF MATERIALS

ITEM NO.	DESCRIPTION	PARTS NUMBERS	MATERIAL	MANUFACTURER
1	FRAME SILL	1647	6063-T5	MODERN DOOR
2	FRAME HEAD	1554	6063-T5	MODERN DOOR
3	FRAME JAMB	1539	STEEL	MODERN DOOR
4	HEAD & SILL RAIL	1838-1A	6063-T5	MODERN DOOR
5	STRIKE RAIL	1839	6063-T5	MODERN DOOR
6	HINGE RAIL	1840-B	6063-T5	MODERN DOOR
7	STRIKE PLATE	---	STEEL	MODERN DOOR
8	4" BUTT HINGE	---	STEEL	MODERN DOOR
9	DOOR SWEEP	---	PVC-ALCRYN	MODERN DOOR
10	WEATHERSTRIPPING	---	FOAM/Q-LON	SCHLEGEL
11	DOOR SKIN	---	0.015" STEEL	MODERN DOOR
12	PANEL CORE	---	POLYURETHANE	MODERN DOOR

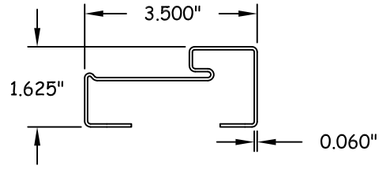
1 FRAME SILL
ALUMINUM 6063-T5



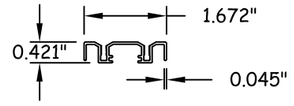
2 FRAME HEAD
ALUMINUM 6063-T5



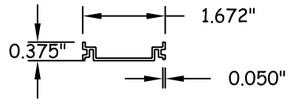
3 FRAME JAMB
16 GA. STEEL



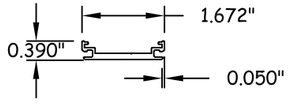
4 HEAD & SILL RAIL
ALUMINUM 6063-T5



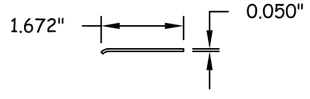
5 STRIKE RAIL
ALUMINUM 6063-T5



6 HINGE RAIL
ALUMINUM 6063-T5

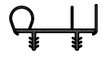


7 STRIKE PLATE
18 GA. STEEL



8 4" BUTT HINGE
STEEL

9 DOOR SWEEP
PVC-ALCRYN



10 WEATHERSTRIPPING
FOAM FILLED Q-LON

9-14-11

PLYCO
PLYCO CORPORATION
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TITLE: SERIES 95EV FLUSH STEEL INSWING DOOR
COMPONENTS
& BILL OF MATERIALS

PREPARED BY:
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REVISIONS

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