

I-PIVOT DOOR SERIES

OUTSWING PIVOT WOOD DOORS

FLORIDA STATE APPROVAL

CODE VERSION: FLORIDA BUILDING CODE 2023 - 8th EDITION

APPROVED FOR USE INSIDE HVHZ AND OUTSIDE HVHZ

CATEGORY: EXTERIOR DOORS -- SUBCATEGORY: SWINGING EXTERIOR DOOR ASSEMBLY

IMPACT RESISTANT: LARGE MISSILE

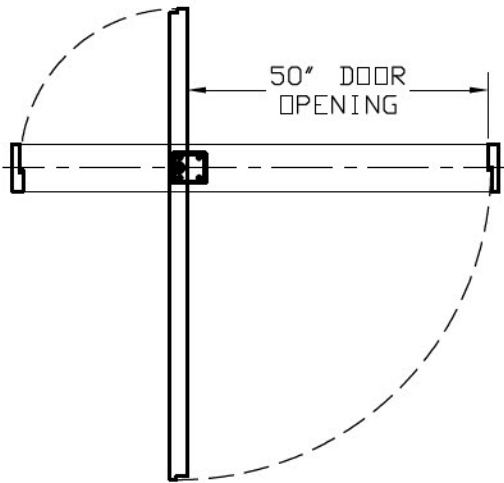
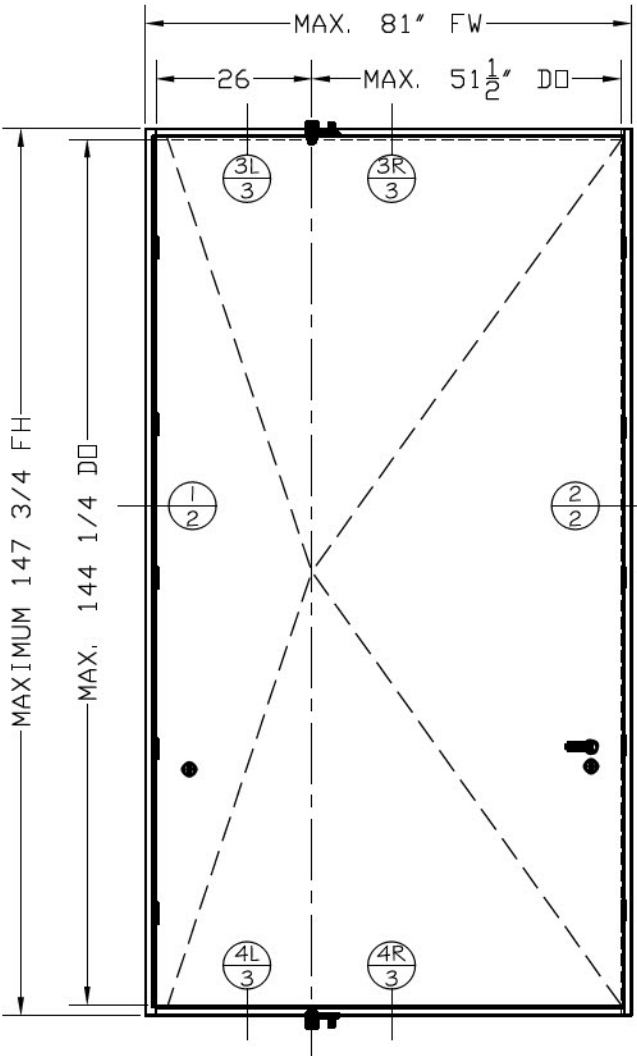
GENERAL NOTES:

- 1- CODE: THIS PRODUCT HAS BEEN TESTED UNDER PROTOCOLS TAS 201, 202 AND 203 AND DESIGNED IN ACCORDANCE WITH THE FBC 2023 - 8th EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2- DEFINITION: THIS PRODUCT IS AN EXTERIOR OUT SWING WOOD TYPE DOOR DESIGNED, CONSTRUCTED AND TESTED TO PROVIDE PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS (LARGE & SMALL MISSILE) WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.
- 3- POSTING: PRODUCT SHALL BE LABELED AS PER FBC SECTION 1703.5. THE PERMANENT LABEL, MARKING OR ETCHING SHALL PROVIDE TRACEABILITY TO THE MANUFACTURER AND PRODUCT.
- 4- LOADS: DESIGNED LOAD CALCULATED BASED ON THE ASCE 7-22 AND PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE PRESSURES HERE IN SPECIFIED. THE DESIGN PRESSURES, AS DETERMINED FROM ASCE 7-22, ARE PERMITTED TO BE MULTIPLIED BY 0.6 AS PER THE FLORIDA BUILDING CODE.
- 5- MATERIAL:
 - 5.1- ALL WOOD TO BE WITH MINIMUM 0.55 SPECIFIC GRAVITY CORRECTED FOR 12% MOISTURE CONTENT PER NDS 0.58 RAW. DENSITY OF BUTCHER BLOCK CONSTRUCTION WITH VENEER 0.535 g/cm³.
 - 5.2- GLAZING: LAMINATED IMPACTED RATED AS SPECIFIED IN THIS APPROVAL
- 6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS.
- 7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:
 - 7.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
 - 7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
 - 7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.

TABLE OF CONTENTS:

SHEET	DESCRIPTION
1 OF 8	GENERAL NOTES, TABLE OF CONTENTS, TYPICAL ELEVATION
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ELEVATION TESTED UNIT



DIGITALLY SIGNED FOR 8 PAGES

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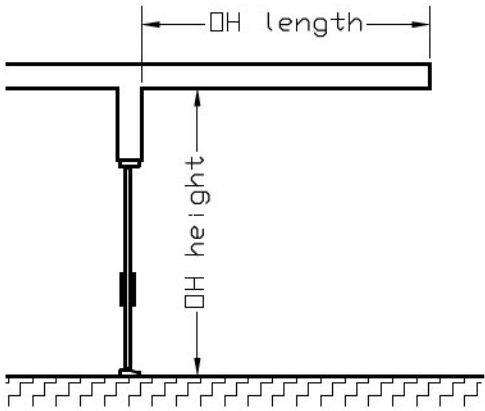
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10/19/2023

DESIGN RATING (WIND)
Pd= +65 ** PSF, -65 PSF

TAS 202: +65, -65 PSF
TAS 203: +65 PSF, -65 PSF
TAS 201: LARGE & SMALL MISSILE

** PRODUCT POSITIVE PRESSURE TO BE LIMITED TO +60 PSF FOR INSTALLATIONS WITHOUT AN OVERHANG MEETING THE OH ratio= OH length/ OH height >= 1
DOOR COVERAGE (FBC 2023 SECTION 1709.5.1)

OPERATING FORCE
WATER RESISTANCE: ASTM E331
9 PSF -- (15% OF +60 PSF)
AIR INFILTRATION: ASTM E283
FORCE ENTRY: AAMA 1304 (SINGLE DOOR)



ENGINEER SEAL
PEDRO DE FIGUEIREDO
PE 52609

PPMIF Inc.
ENGINEERING SERVICES - CA 32459
9715 W. BROWARD BLVD.
PLANTATION, FL 33324
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PRODUCT:
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OUTSWING PIVOT DOORS
LARGE & SMALL MISSILE
IMPACT RATED

MANUFACTURER:
WOOD FINISHING SERVICES LLC
222 NE 27TH STREET
MIAMI- FLORIDA- 33137
TEL: (561) 939-3368

SCALE:

NA

DATE:

10/19/2023

DRAWING #

23-204

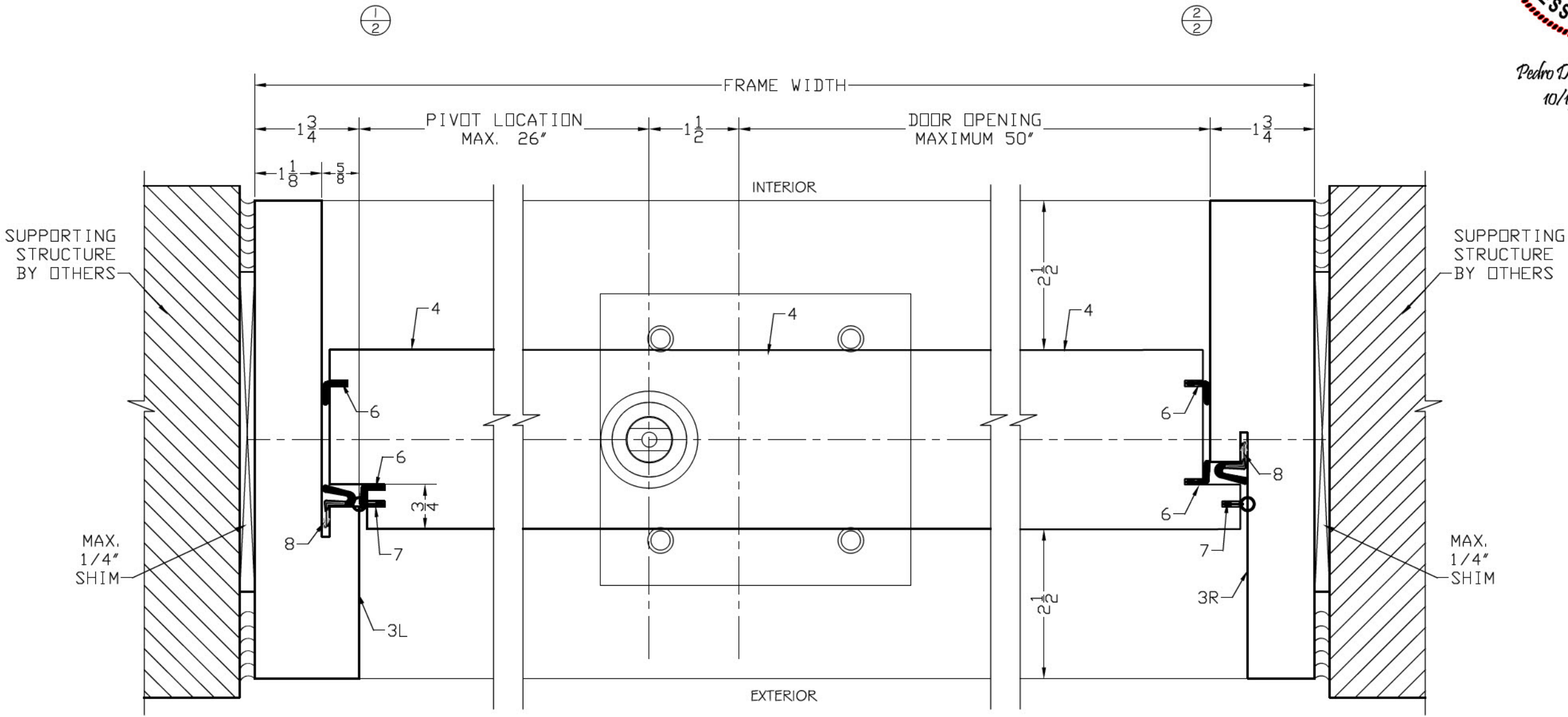
SHEET

1 OF 8

HORIZONTAL SECTIONS



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SEE SHEET 4 FOR FRAME ANCHORAGE OPTIONS

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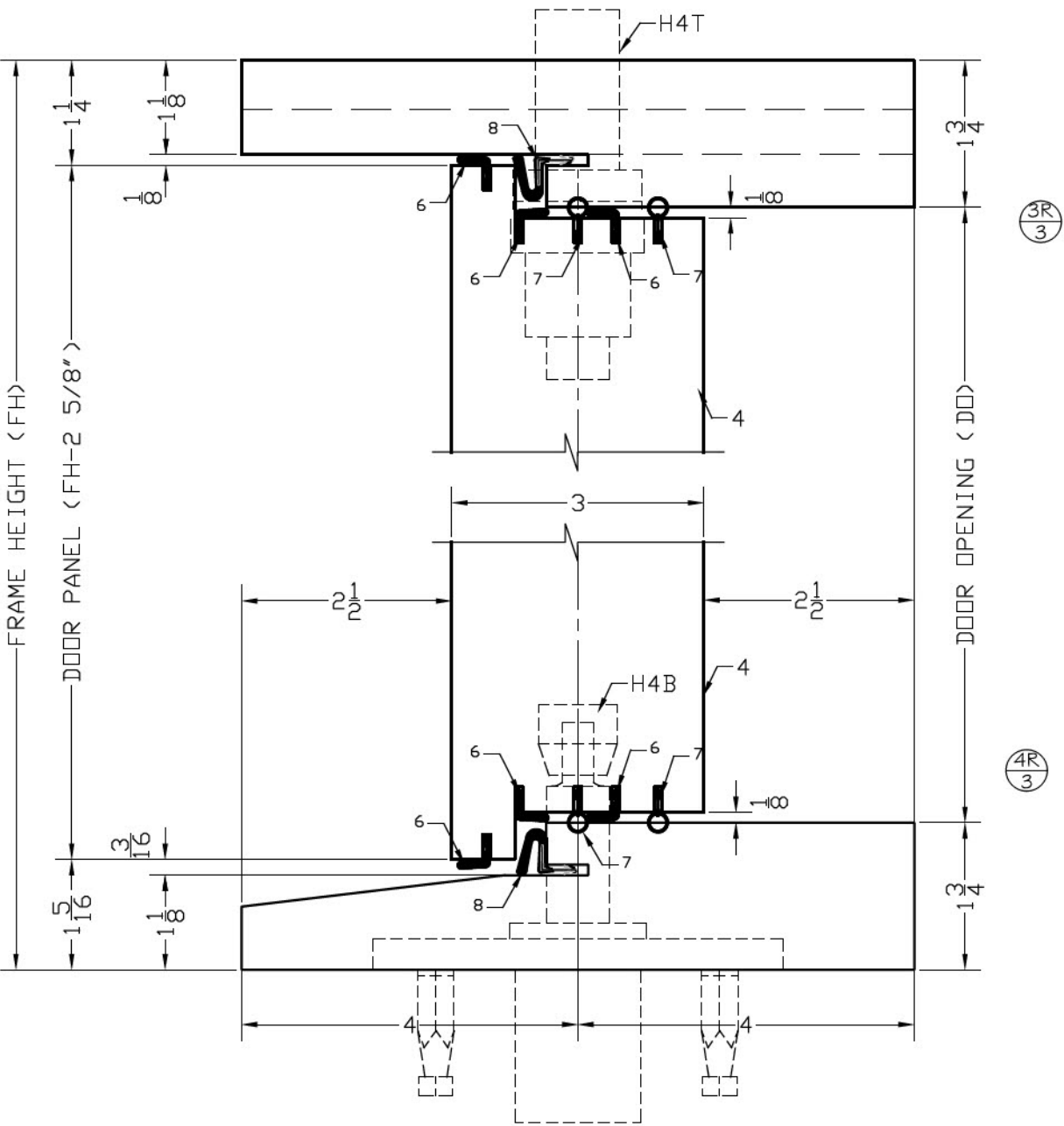
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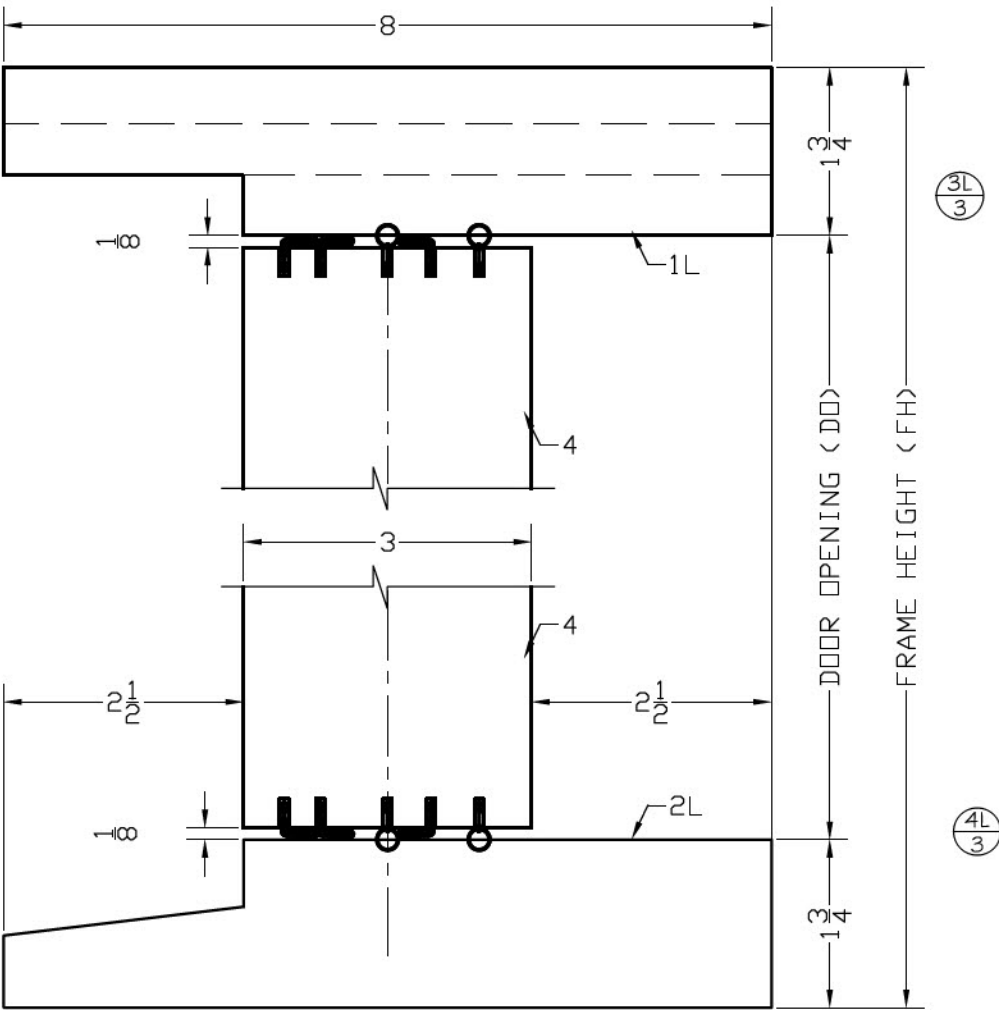
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VERTICAL SECTIONS

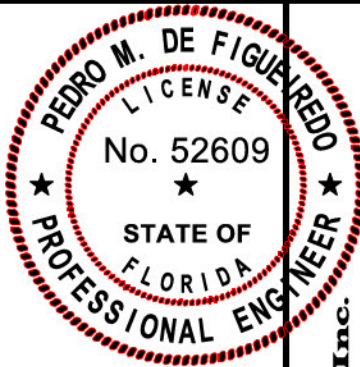
VERTICAL SECTION RIGHT SIDE OF PIVOT



VERTICAL SECTION LEFT SIDE OF PIVOT



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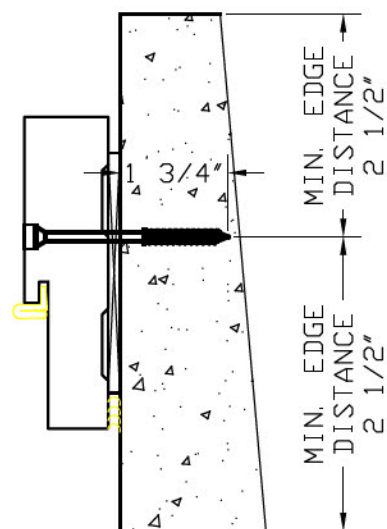
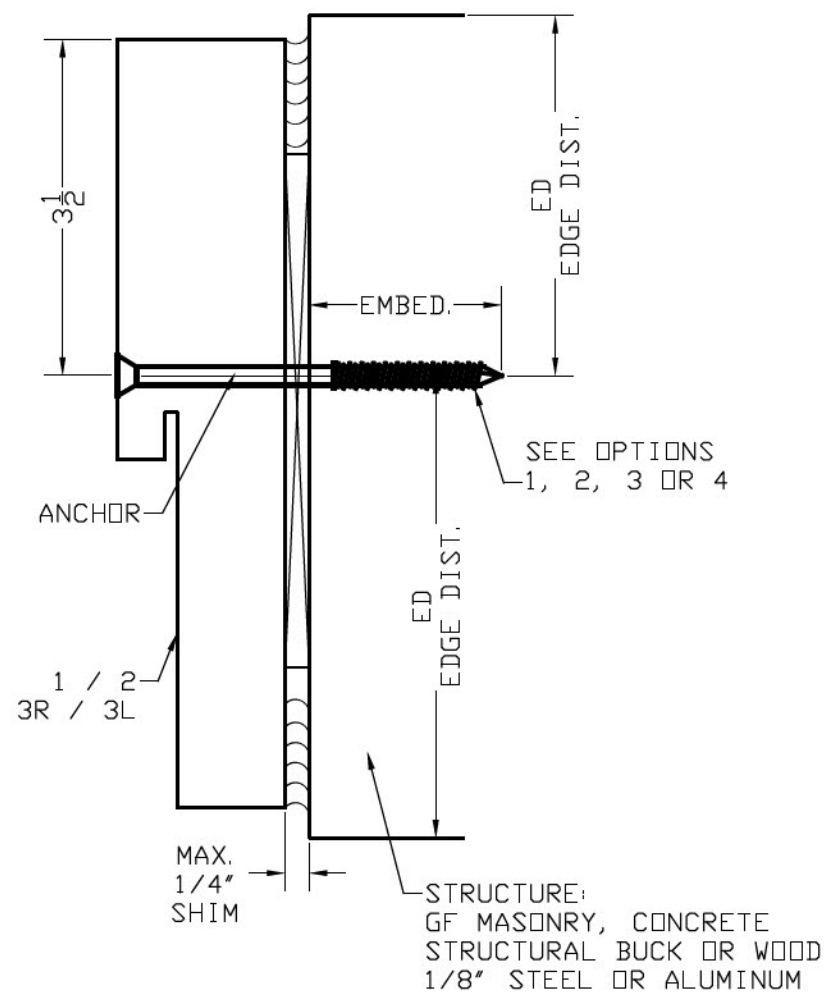
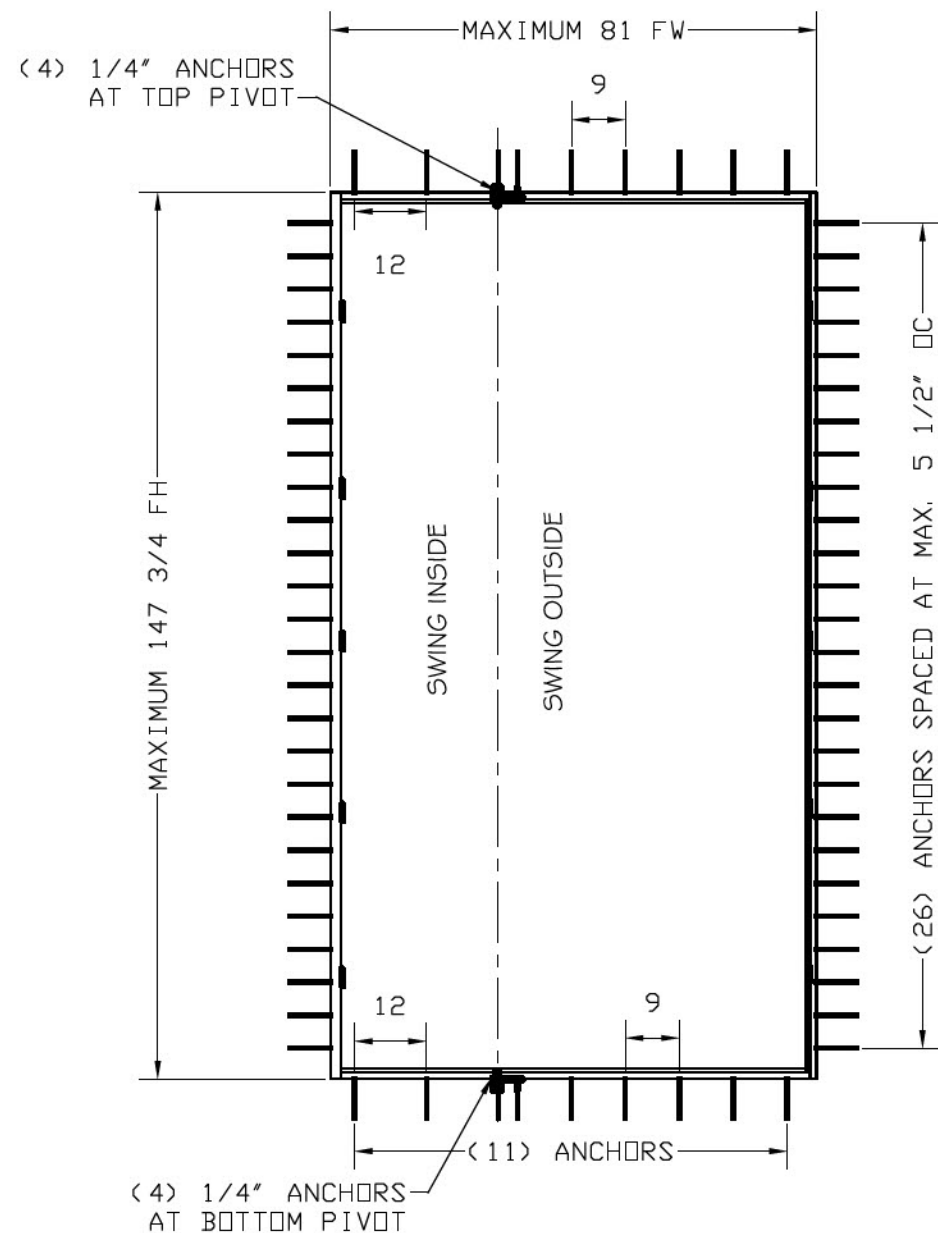
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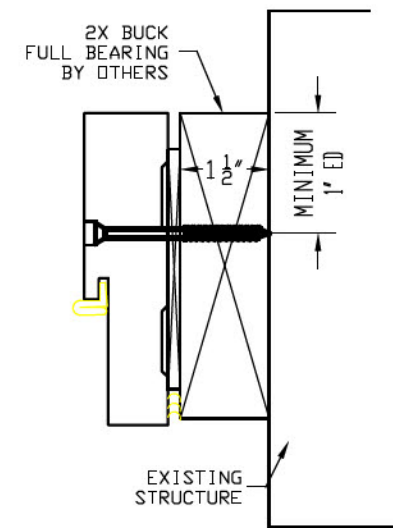
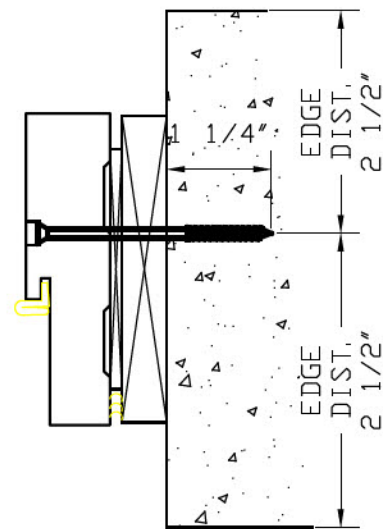
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FRAME ANCHORAGE LAY-OUT AND OPTIONS

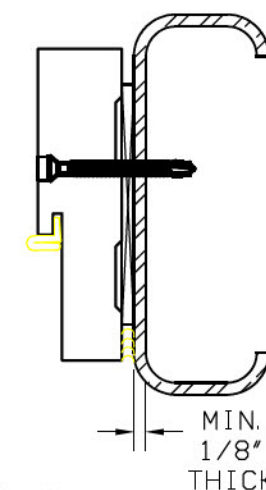


OPTION 1
FRAME MOUNTED DIRECTLY INTO SUBSTRATE WITH MAXIMUM 1/4" SHIM AND 1/4" ULTRACONS BY ELCO WITH 1 3/4" MIN. EMBEDMENT INTO GROUT FILLED MASONRY (JAMBS) OR INTO 3000 PSI CONCRETE (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT)

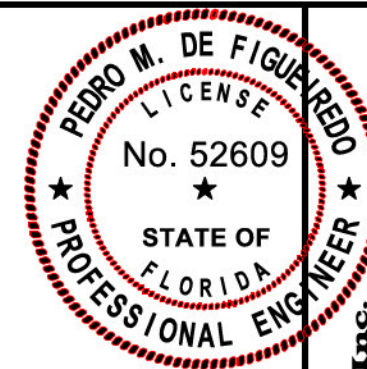
OPTION 2
FRAME MOUNTED WITH MAXIMUM 1/4" SHIM AND MAXIMUM 1X PT CONTINUOUS WOOD SPACER SECURED BY 1/4" ULTRACONS BY ELCO WITH 1 3/4" MIN. EMBEDMENT INTO GROUT FILLED MASONRY (JAMBS) OR INTO 3000 PSI CONCRETE. FOR INSTALLATION INTO METAL STRUCTURES USE 1/4"-20 HWH GRADE 5 SDS (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT) 1X BUCK TO BE PROPERLY DESIGNED BY OTHERS.



OPTION 3
FRAME MOUNTED DIRECTLY INTO 2X PT WOOD BUCK (SG>=0.55) W/ MAX. 1/4" SHIM AND SECURED BY #14 S5 WOOD SCREWS OR 1/4" ULTRACONS WITH 1 1/2" MIN. EMBEDMENT. (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT) 2X BUCK TO BE PROPERLY DESIGNED BY OTHERS.



OPTION 4
FRAME MOUNTED DIRECTLY INTO METAL STRUCTURES W/ MAX. 1/4" SHIM. 1/4"-20 PFH SDS GR 5 INTO MIN. 1/8" A36 STEEL OR 6063-T6 ALUMINUM. (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT)



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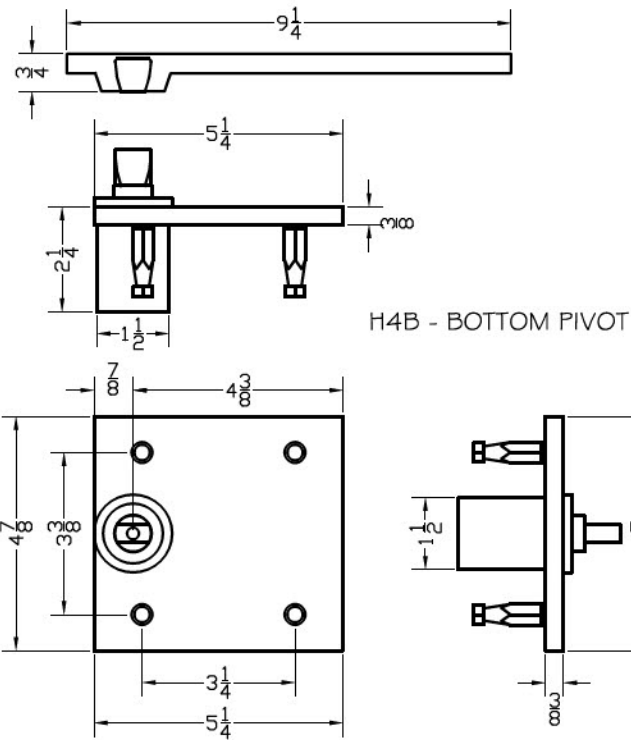
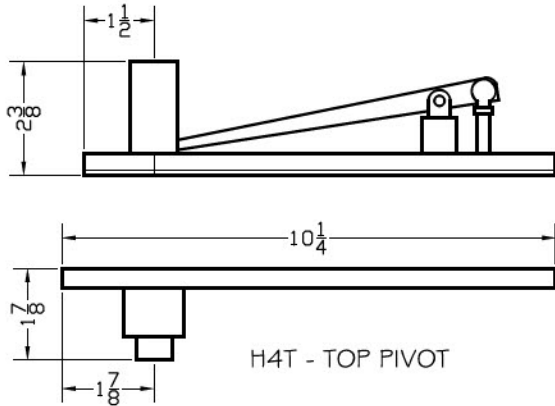
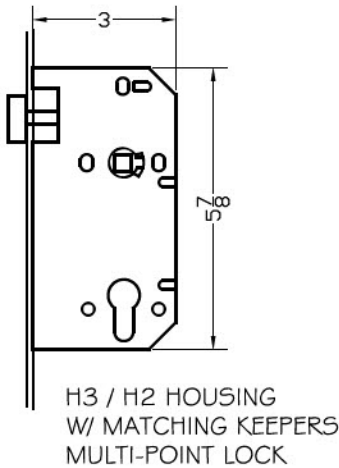
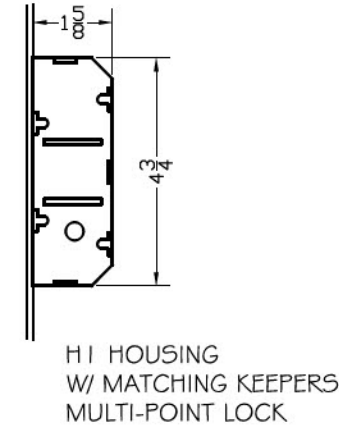
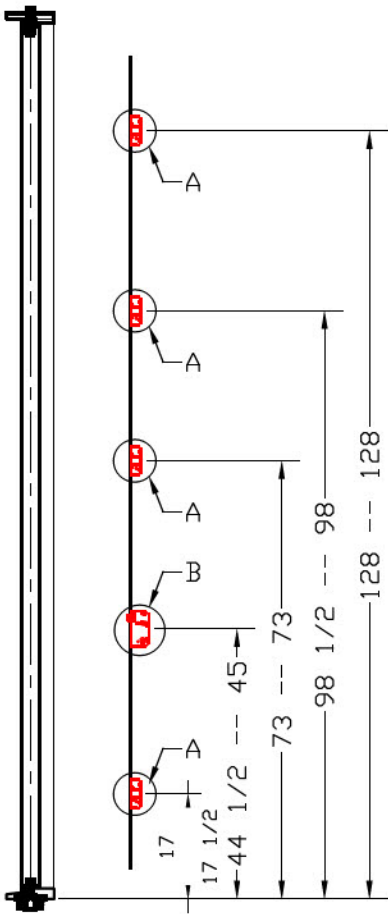
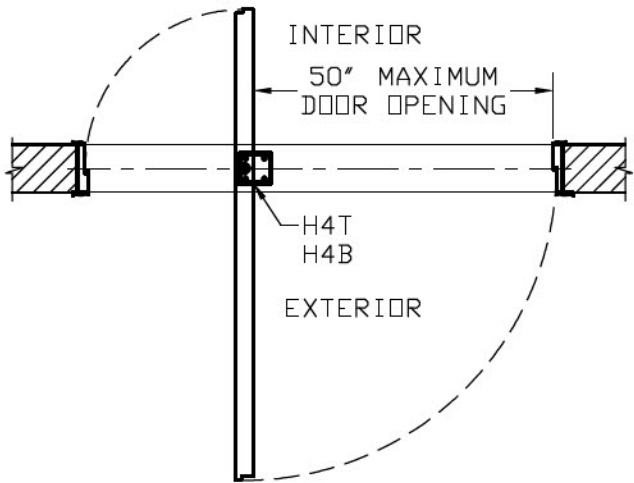
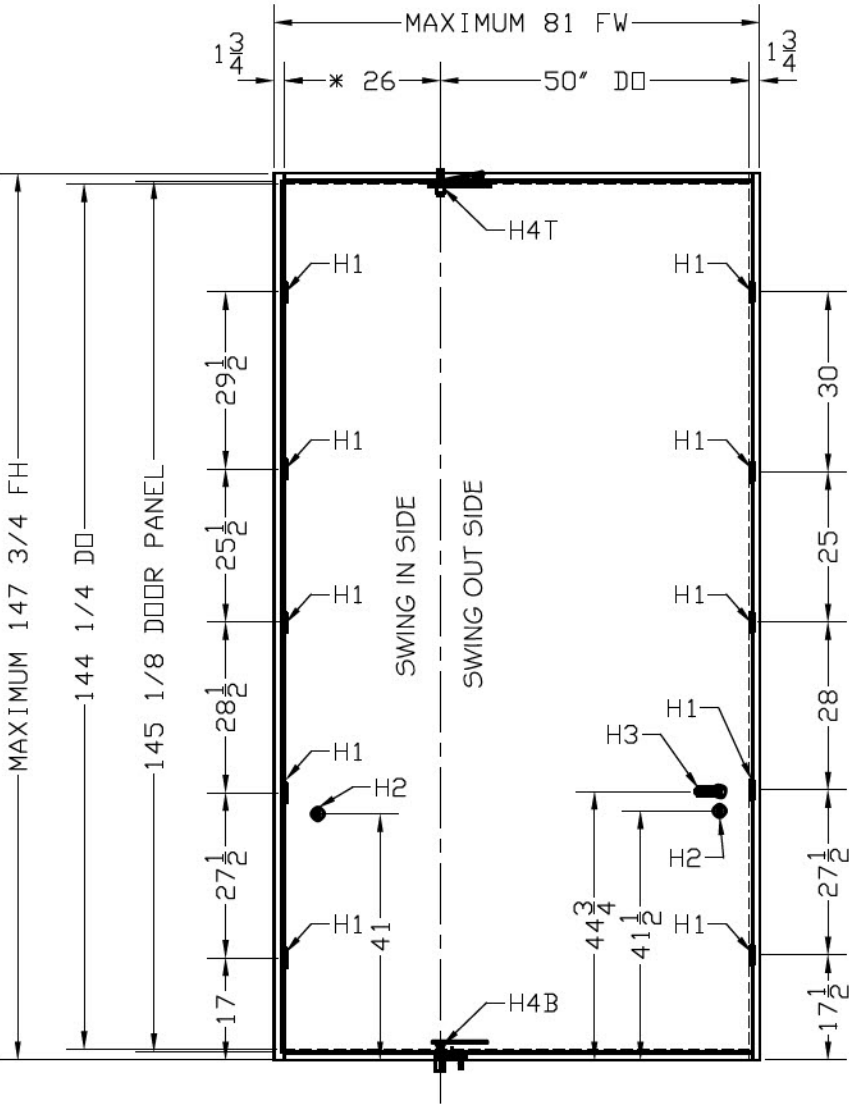
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HARDWARE LAY-OUT

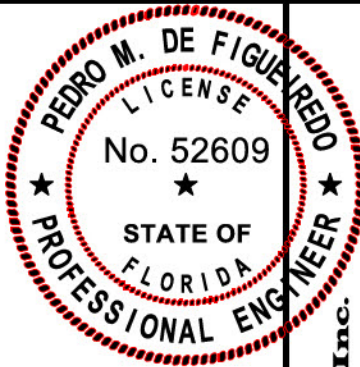


HARDWARE NOTES:

- H1 - FLUSH MOUNTED METTALIC KEEPERS WITH NO MARKINGS. SECURED TO JAMBS WITH (4) #8X 1 1/4" FLAT HEAD WOOD SCREWS. SEE ELEVATION FOR LOCATION.
- H2- SURFACE MOUNT MULTI-POINT LOCK SYSTEM WITH ACTIVATING KEY OPERATOR ON THE EXTERIOR AND THUMB TURN ON THE INTERIOR WITH PRODUCT MARKINGS NF. SECURED WITH (17) #8X 1 1/4" FLAT HEAD WOOD SCREWS. LOCATED AT 41" FROM THE BOTTOM.
- H3- SURFACE MOUNT METTALIC DEAD BOLT WITH KEY OPERATOR ON THE EXTERIOR AND THUMB TURN ON THE INTERIOR WITH PRODUCT MARKING WOOD FINISHING SERVICE. SECURED WITH (2) #8-36 X 1 1/8" OVAL HEAD MACHINE SCREWS. LOCATED AT 41 1/2" FROM THE BOTTOM.
- H4T- TOP PIVOT - SECURED TO BUCK WITH (4) 1/4" X 2 1/4" FLAT HEAD WOOD SCREWS
- H4B- BOTTOM PIVOT - SECURED TO BUCK WITH (4) 1/4" X 2 1/4" FLAT HEAD WOOD SCREWS

TABLE 1 (PIVOT LOCATION FUNCTION OF THE DOOR OPENING SIZE)

DOOR OPENING	* PIVOT LOCATION	MAXIMUM FRAME WIDTH
50"	26"	81"
48"	25"	78"
42"	22"	69"
36"	19"	60"
30"	16"	51"
24"	13"	42"



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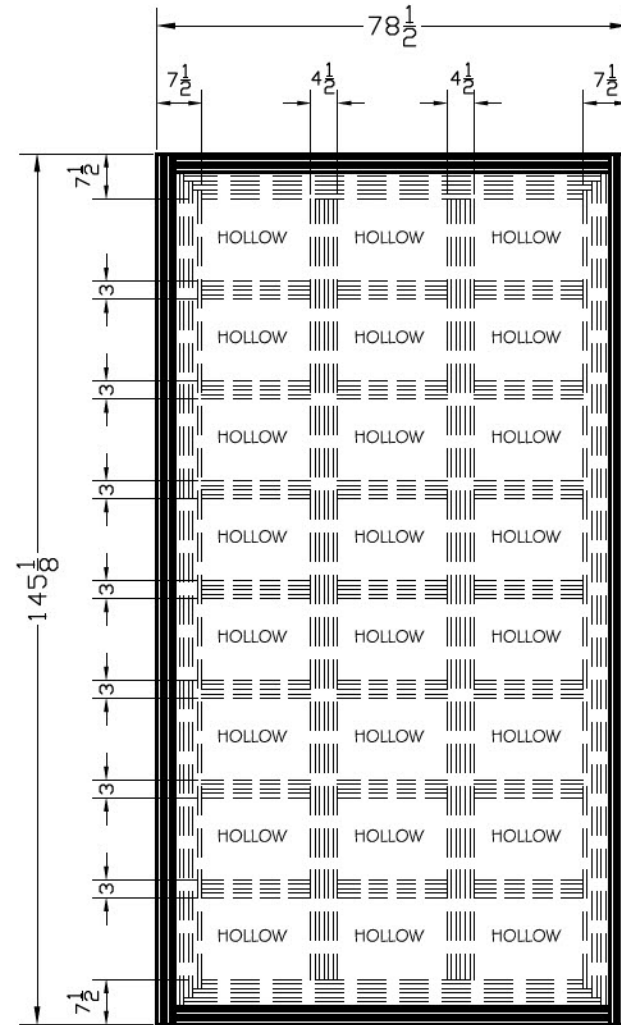
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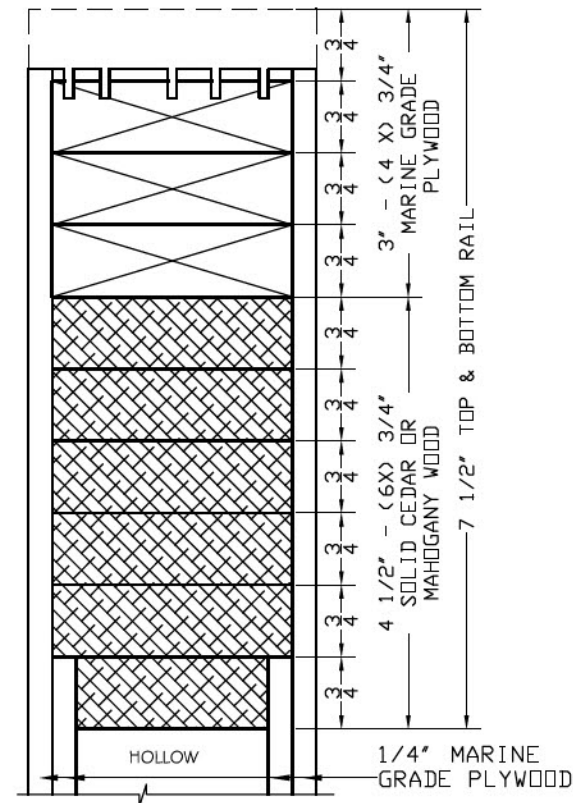
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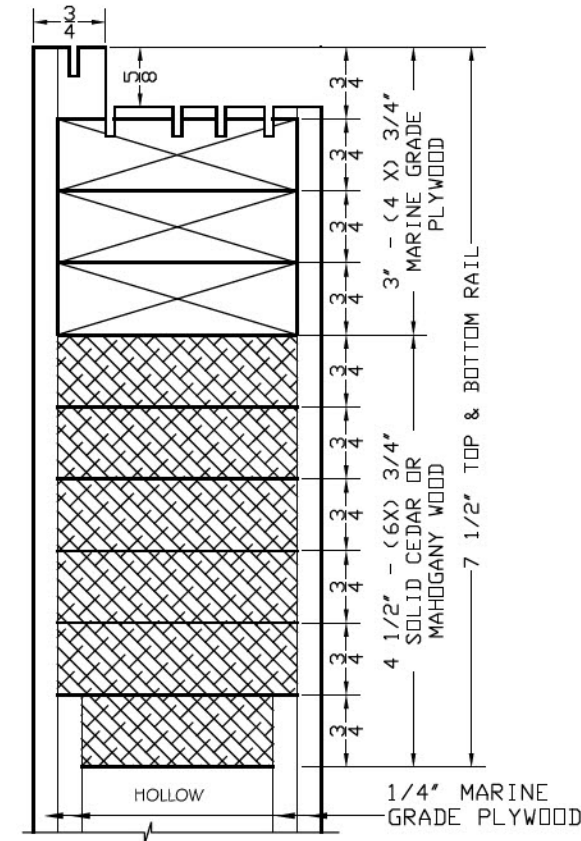
DOOR COMPONENTS



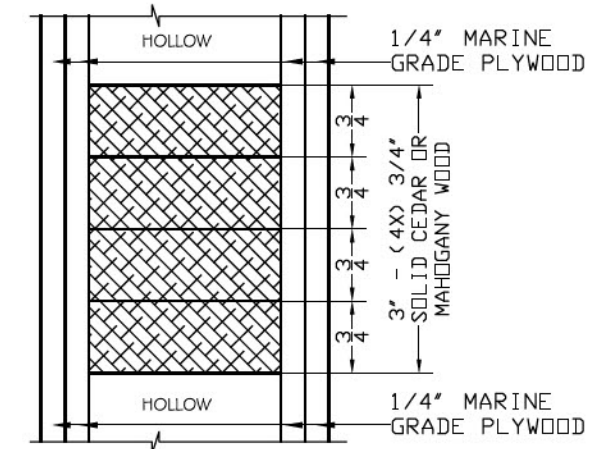
4- DOOR SLAB CONSTRUCTION LAY-OUT
DOOR PANEL CONSTRUCTED USING CEDAR OR MAHOGANY WOOD AND MARINE GRADE PLYWOOD. WOOD SECTIONS SECURED TOGETHER USING MULTI-BOND ADVANTAGE II GLUE



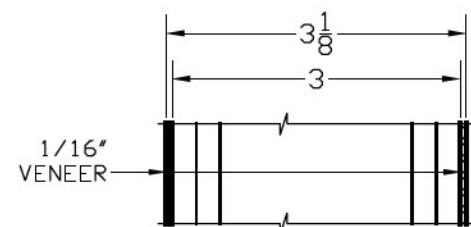
4- DOOR SLAB
PERIMETER TOP & BOTTOM RAIL
LEFT SIDE OF THE PIVOT



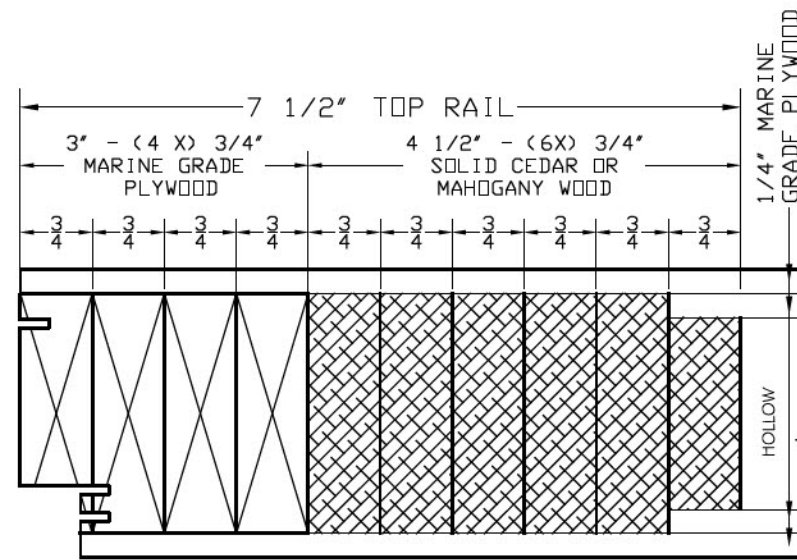
4- DOOR SLAB
PERIMETER TOP & BOTTOM RAIL
RIGHT SIDE OF THE PIVOT



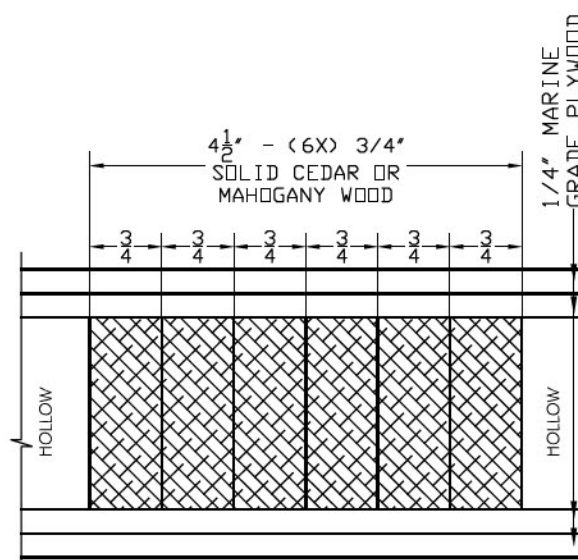
4- DOOR SLAB
HORIZONTAL STIFFENER



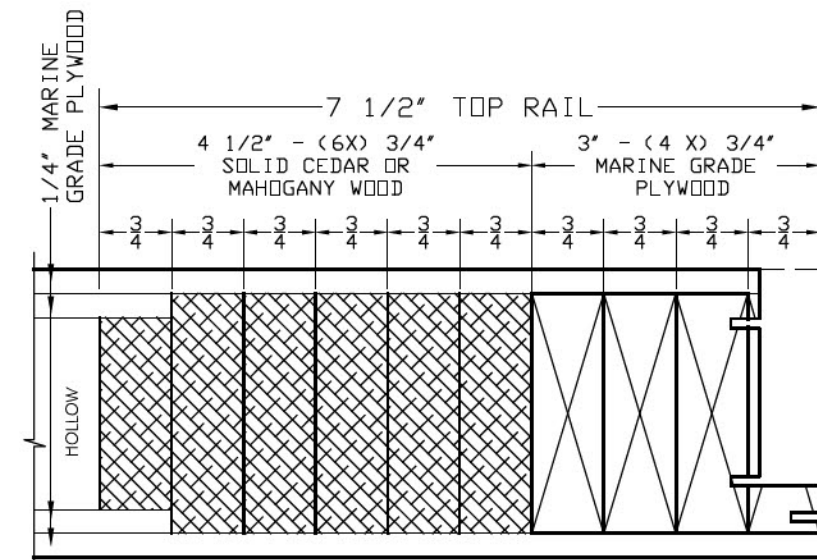
OPTIONAL CLADDING:
1/16" MAHOGANY VENEER
VENEER GLUED WITH
EPOXY RESIN



4- DOOR SLAB
PERIMETER SIDE RAIL LAY-OUT - LEFT SIDE OF THE PIVOT



4- DOOR SLAB
VERTICAL STIFFENER



4- DOOR SLAB
PERIMETER SIDE RAIL LAY-OUT - RIGHT SIDE OF THE PIVOT



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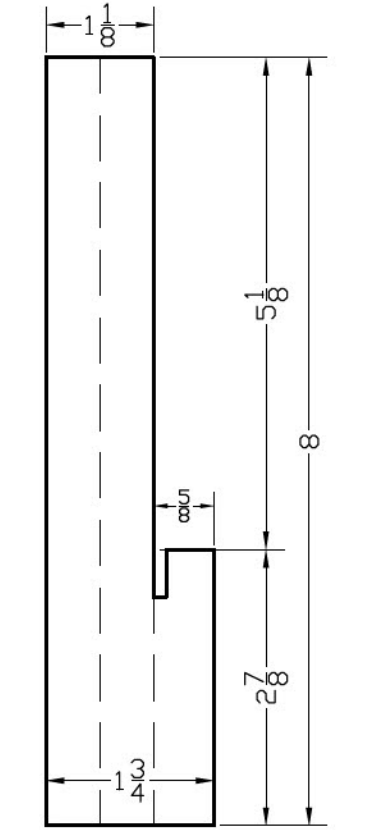
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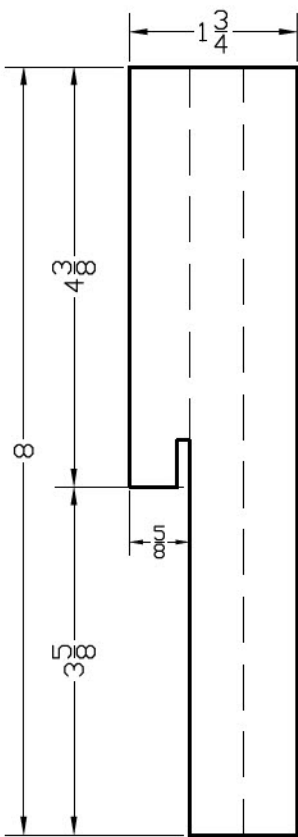
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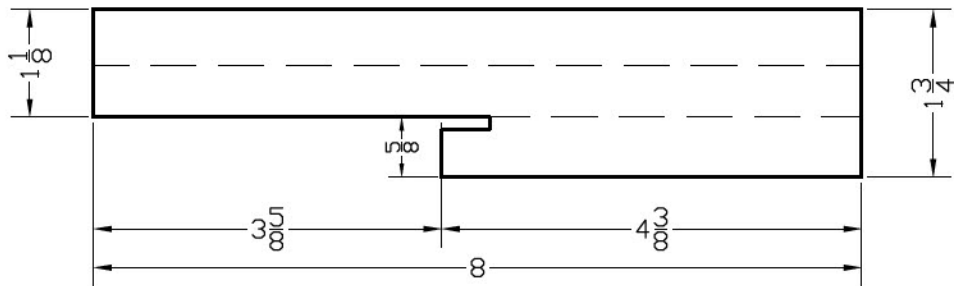
FRAME COMPONENTS



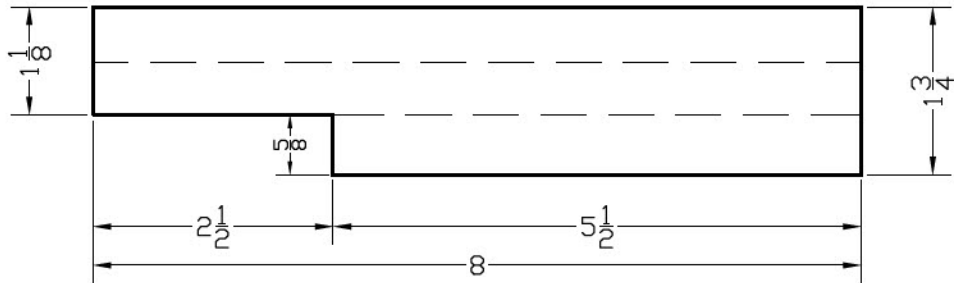
3L- IN-SWING SIDE JAMB
LAMINATED MAHOGANY WOOD



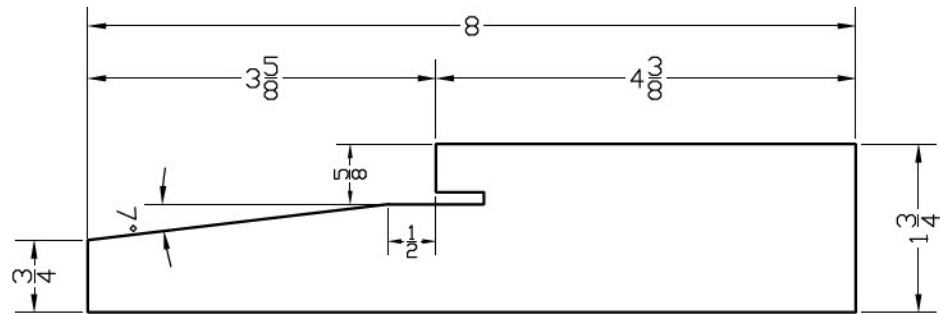
3R- OUT-SWING SIDE JAMB
LAMINATED MAHOGANY WOOD



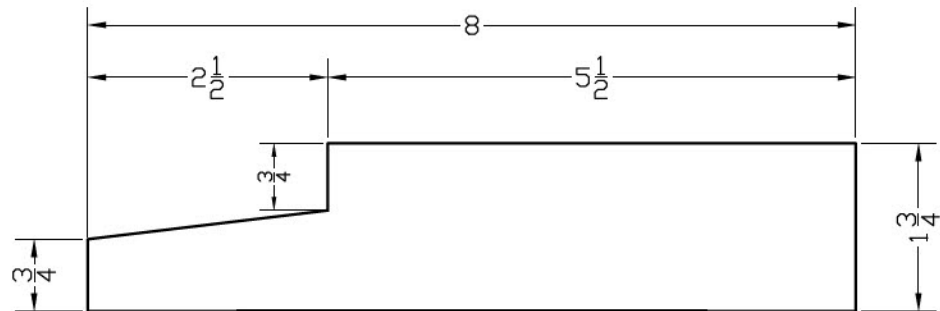
1R- HEADER LAMINATED MAHOGANY WOOD
RIGHT SIDE OF THE PIVOT



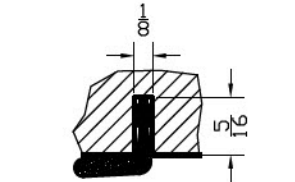
1L- HEADER LAMINATED MAHOGANY WOOD
LEFT SIDE OF THE PIVOT



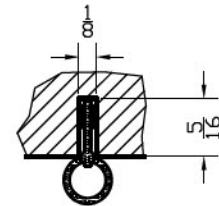
2R- SILL - SOLID MAHOGANY WOOD
RIGHT SIDE OF THE PIVOT



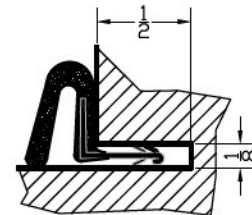
2L- SILL - SOLID MAHOGANY WOOD
LEFT SIDE OF PIVOT



6- DOOR WEATHERSTRIP
QEZ 320 BY SCHLEGEL



7- DOOR WEATHERSTRIP
AP 425 D BY SCHLEGEL



8- FRAME WEATHERSTRIP
QEBD 650 BY SCHLEGEL

BILL OF MATERIALS:

PART#	DESCRIPTION	MATERIAL
1	1 3/4 X 8 HEADER	LAMINATED WOOD
2	1 3/4 X 8 THRESHOLD	SOLID WOOD
3L	1 3/4 X 8 JAMB	LAMINATED WOOD
3R	1 3/4 X 8 JAMB	LAMINATED WOOD
4	DOOR PANEL	ENGINEER WOOD - SEE LAY-OUT
5		
6	DOOR WEATHERSTRIP	QEZ 320 BY SCHLEGEL
7	DOOR WEATHERSTRIP	AP 425 D BY SCHLEGEL
8	FRAME WEATHERSTRIP	QEBD 650 BY SCHLEGEL
H1	MULTI-POINT LOCK	HARDWARE 1 - METALLIC
H2	MULTI-POINT LOCK	HARDWARE 2 - METALLIC
H3	MULTI-POINT LOCK	HARDWARE 3 - METALLIC
H4T	TOP PIVOT	HARDWARE 4T - METALLIC
H4B	BOTTOM PIVOT	HARDWARE 4B - METALLIC



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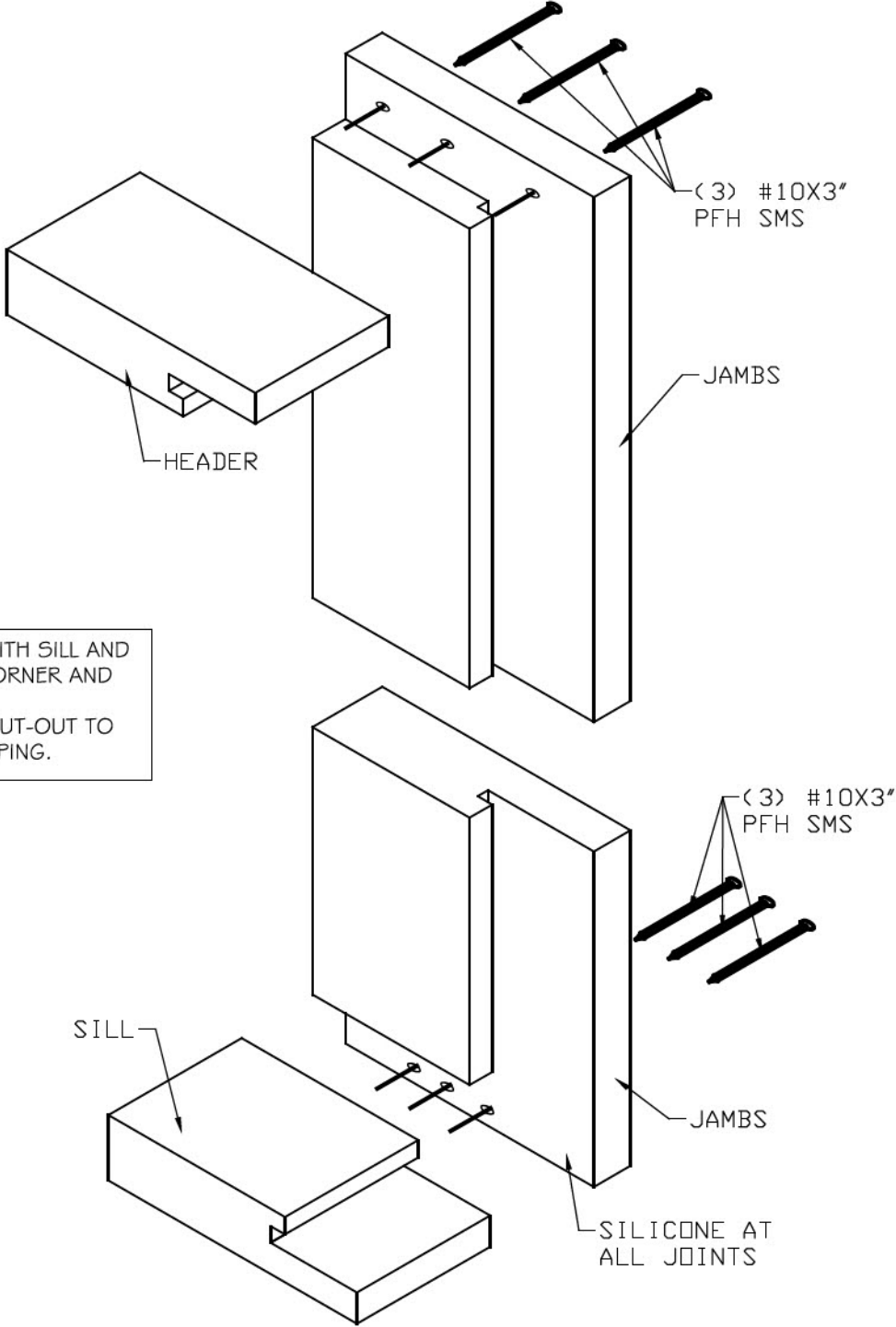
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FRAME ASSEMBLY



FRAME CONSTRUCTION:

THE JAMBS WERE RABBET AND BUTT JOINED WITH SILL AND HEADER USING (3) #10X3" PFH SMS IN EACH CORNER AND SEALED USING SILICONE
THE JAMBS, HEADER AND SILL HAD A NOTCH CUT-OUT TO ALLOW THE PLACEMENT OF THE WEATHERSTRIPPING.

SEALANT:
EXTERIOR PERIMETER WAS CAULKED WITH SIKAFLEX-1A SILICONE SEALANT. THE WOOD FINISHING SERVICE GLUE PART #M3 WAS USED TO GLUE THE MORTISE AND TENON JOINT.



Pedro De Figueiredo
10/19/2023

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
PEDRO DE FIGUEIREDO ON THE DATE INDICATED HERE.

PPMIF Inc.
ENGINEERING SERVICES - CA 32459
9715 W. BROWARD BLVD.
PLANTATION, FL 33324
PPMIF@AOL.COM

PRODUCT:
I-PIVOT SERIES
OUTSWING PIVOT DOORS
LARGE & SMALL MISSILE
IMPACT RATED

MANUFACTURER:
WOOD FINISHING SERVICES LLC
222 NE 27TH STREET
MIAMI- FLORIDA- 33137
TEL: (561) 939-3368

SCALE:
NA
DATE:
10/19/2023
DRAWING #
23-204
SHEET
8 OF 8