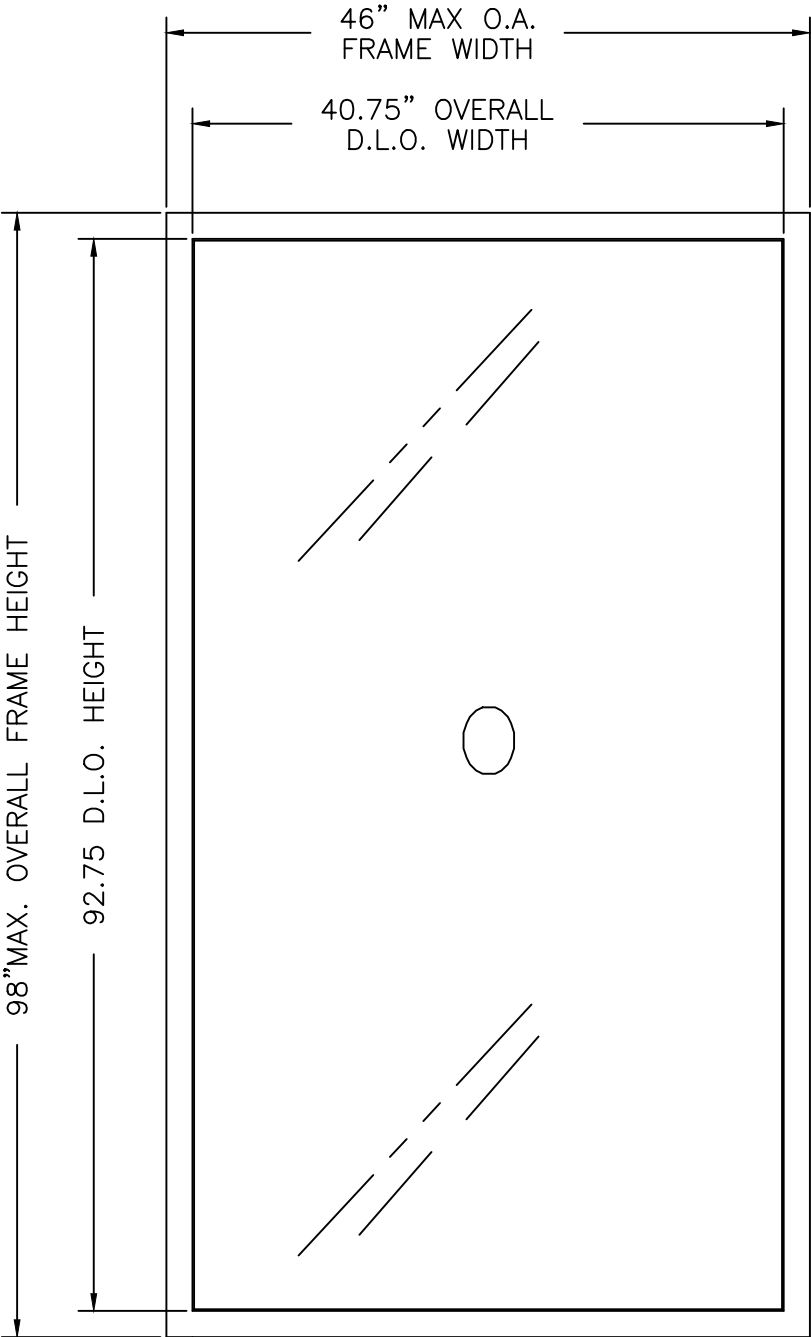


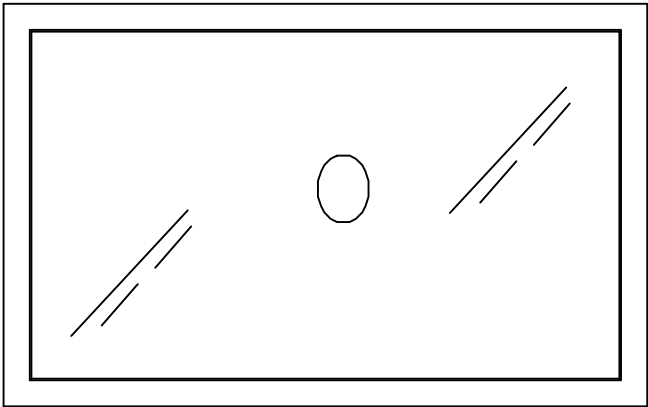
SERIES BORROW LITE STEEL FRAME - IMPACT
TRANSOM – SIDELIGHT FOR SWINGING DOOR
ASSEMBLIES

GENERAL NOTES

1. THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE 8TH EDITION (2023) FLORIDA BUILDING CODE (FBC) REQUIREMENTS EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND HAS BEEN EVALUATED TO THE FOLLOWING IN TESTING EVALUATION LABORATORIES REPORT NO. TEL 02991414.
- 1.1. ASTM E330-02
- 1.2. ASTM E1886-05
- 1.3. ASTM E1996-09
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 COMPLIES WITH SECTION 1609.1.2 OF THE FBC AND DOES NOT REQUIRE AN IMPACT RESISTANT COVERING. THIS PRODUCT MEETS MISSILE LEVEL "D" AND INCLUDES WIND ZONE 4 AS DEFINED IN ASTM E1996 AND SECTION 1609.1.2.2 OF THE FBC.
4. THIS PRODUCT DOES NOT MEET THE WATER INFILTRATION REQUIREMENTS OF THE FBC AND SHALL BE INSTALLED ONLY IN NON-HABITABLE AREAS OR AT HABITABLE LOCATIONS PROTECTED BY AN OVERHANG OR CANOPY SUCH THAT THE OVERHANG RATIO (OH) = OH LENGTH / OH HEIGHT IS EQUAL TO OR GREATER THAN 1.
5. SITE CONDITIONS THAT DEVIATE FROM THE DETAILS OF THIS DRAWING REQUIRE FURTHER ENGINEERING ANALYSIS BY A LICENSED ENGINEER OR REGISTERED ARCHITECT.
6. SEE CURRENT MIAMI-DADE NOTICE OF ACCEPTANCE (NOA) FOR EASTMAN CHEMICAL CO. SAFLEX PVB INTERLAYER COMPONENT APPROVAL.



VERTICAL ORIENTATION



HORIZONTAL ORIENTATION
OVERALL WIDTH AND HEIGHT FOR
FRAME AND DLO SHOWN FOR
VERTICAL ORIENTATION
APPLICABLE TO HORIZONTAL
ORIENTATION.

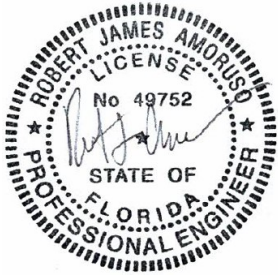
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	TYP ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES
2	HORIZONTAL AND VERTICAL CROSS SECTIONS
3	HORIZONTAL CROSS SECTIONS
4	ANCHORING DETAILS
5	BILLS OF MATERIALS AND GLAZING DETAIL

MAXIMUM OVERALL DIMENSION	MAXIMUM D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
46" X 98"	40.75" X 92.75"	+65	-70
WIND ZONE 4, MISSILE LEVEL D IMPACT RATED			

SERIES BORROW LITE STEEL FRAME - IMPACT TRANSOM – SIDELIGHT FOR SWINGING DOOR ASSEMBLIESINSTALLATION ANCHORAGE DETAILS				
NO.	REVISION DESCRIPTION	BY	DATE	
C	ADD ALTERNATE LOCKING HARDWARE	RJA	1/27/26	

DATE: 2/27/2019	DWN BY: DAS/RJA	CHK BY: RJA	SCALE: NONE
--------------------	--------------------	----------------	----------------

ROBERT J. AMORUSO, P.E. #49752
AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM



Digitally signed
by Robert J
Amoruso
Date: 2026.01.31
12:32:10 -05'00'

1. SPOT WELD ANCHOR BRACKET TO FRAME. 2 WELDS PER FLANGE (4 TOTAL PER BRACKET). ALTERNATIVELY MIG WELD, 1 PER FLANGE (2 TOTAL PER BRACKET).



SHT: 2 of 5

SERIES BORROW LITE STEEL FRAME - IMPACT TRANSOM - SIDELIGHT FOR SWINGING DOOR ASSEMBLY INSTALLATION ANCHORAGE DETAILS				
NO.	REVISION DESCRIPTION	BY	DATE	
C	ADD ALTERNATE LOCKING HARDWARE	RJA	1/27/26	

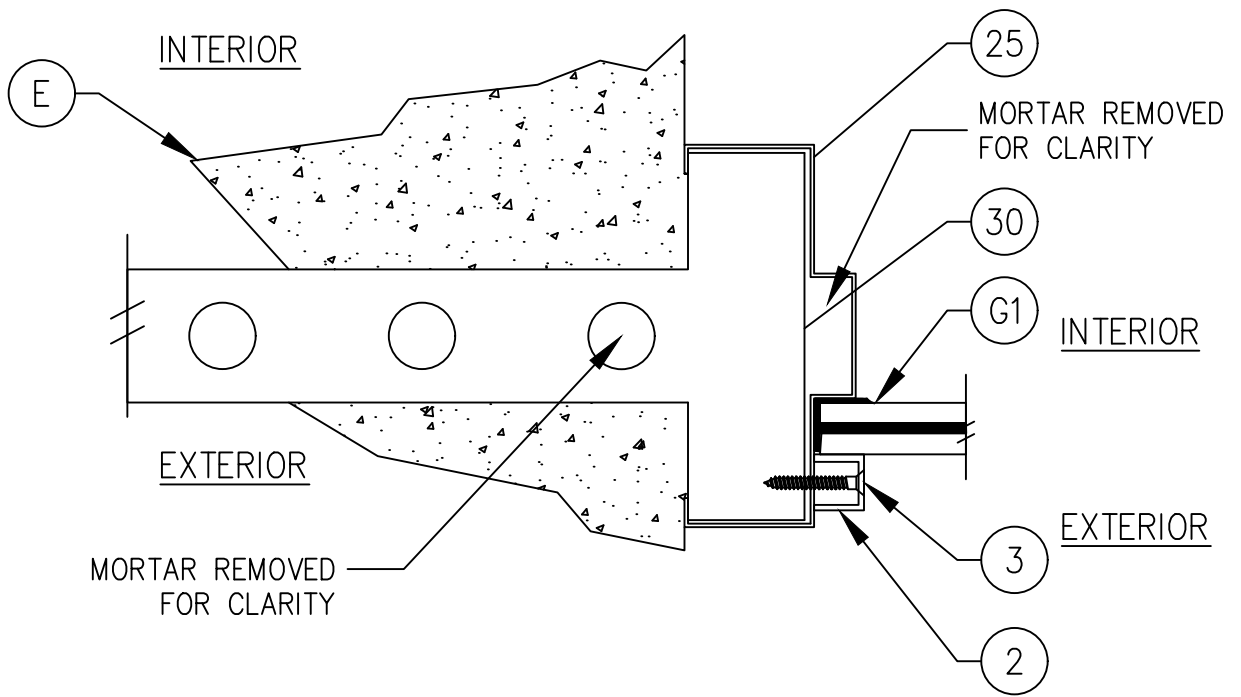
DATE: 2/27/2019	DWN BY: DAS/RJA	CHK BY: RJA	SCALE: NONE
--------------------	--------------------	----------------	----------------

ROBERT J. AMORUSO, P.E. #49752
AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM

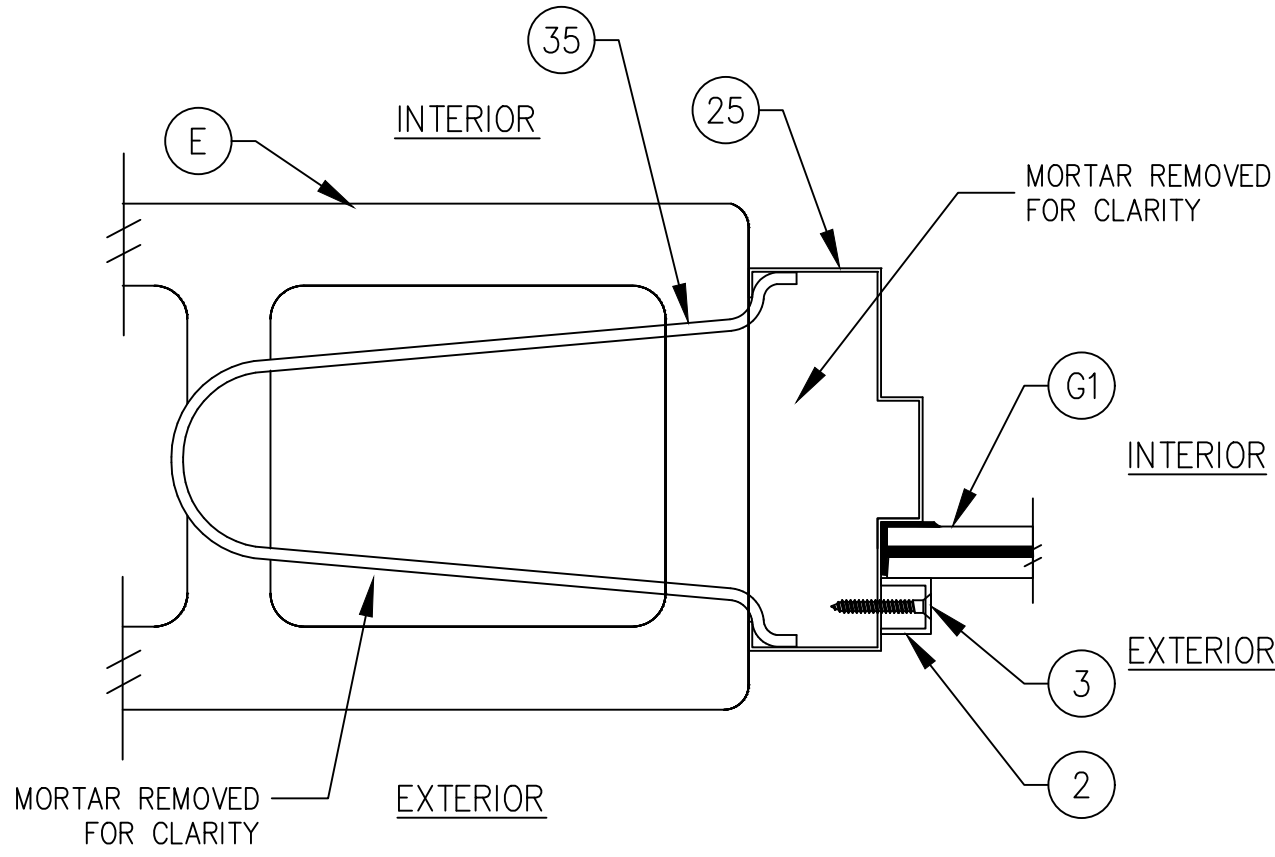


Digitally signed
by Robert J
Amoruso
Date: 2026.01.31
12:32:40 -05'00'

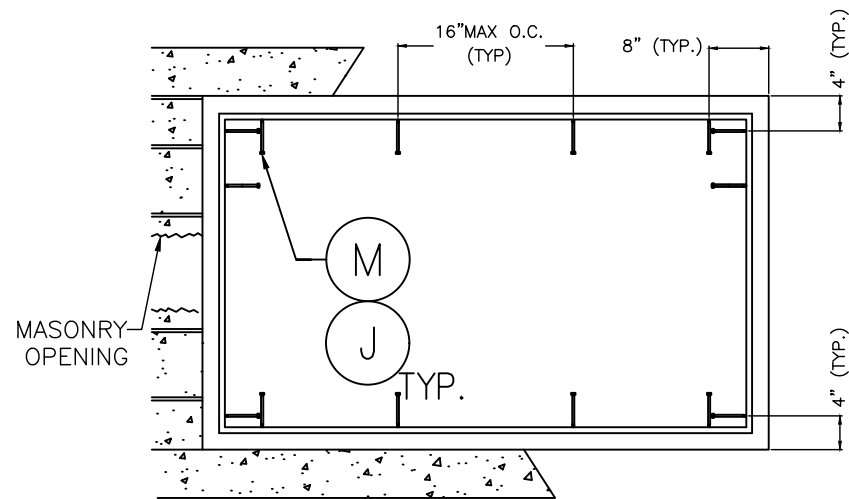
PROJECT#:	ACE-2025-126
DWG/REV:	HMF0006, Rev C
SHT:	3 of 5



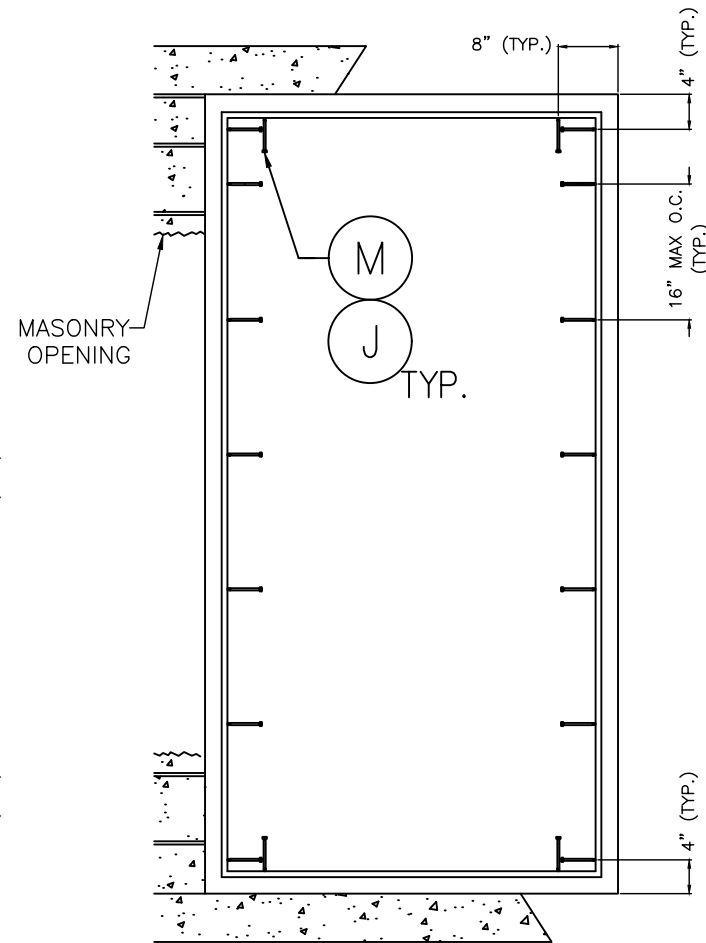
2 HORIZONTAL CROSS SECTION
3 NEW MASONRY



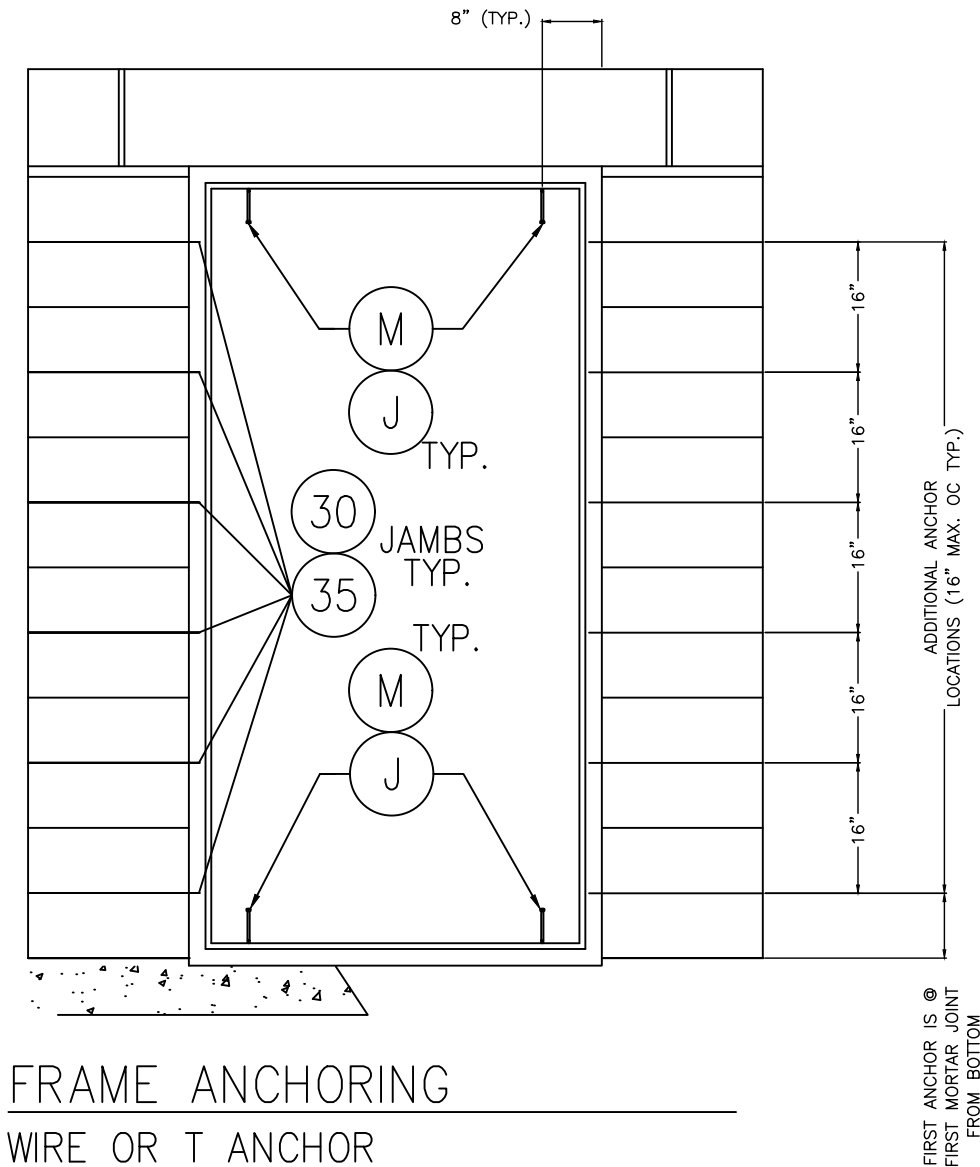
1 HORIZONTAL CROSS SECTION
3 NEW MASONRY



FRAME ANCHORING
EXISTING MASONRY



FRAME ANCHORING
EXISTING MASONRY



FRAME ANCHORING
WIRE OR T ANCHOR

CONCRETE ANCHOR NOTES:

1. CONCRETE SCREW LOCATIONS MAY BE ADJUSTED TO MAINTAIN A MINIMUM 1" EDGE DISTANCE TO MORTAR JOINTS. IF CONCRETE SCREW LOCATIONS NOTED AS "MAX. O.C." MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTAR JOINTS, ADDITIONAL CONCRETE SCREWS MAY BE REQUIRED TO ENSURE THE MAXIMUM ON CENTER DIMENSION IS NOT EXCEEDED.

2. CONCRETE ANCHOR TABLE:

ANCHOR TYPE	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	3/8"	LDT TAPCON (ITW BUILDEX)	3"	1-1/2"
CONCRETE SLEEVE ANCHOR	3/8"	DYNABOLT SLEEVE ANCHOR (ITW REDHEAD)	2-1/4"	1-1/2"

HMF EXPRESS
2501 NORTHCHASE
PARKWAY SE
WILMINGTON, NC 28405

SERIES BORROW LITE STEEL FRAME - IMPACT TRANSOM - SIDELIGHT FOR SWINGING DOOR ASSEMBLY INSTALLATION ANCHORAGE DETAILS			
NO.	REVISION DESCRIPTION	BY	DATE
C	ADD ALTERNATE LOCKING HARDWARE	RJA	1/27/26

DATE: 2/27/2019	DWN BY: DAS/RJA	CHK BY: RJA	SCALE: NONE
--------------------	--------------------	----------------	----------------

ROBERT J. AMORUSO, P.E. #49752
AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM



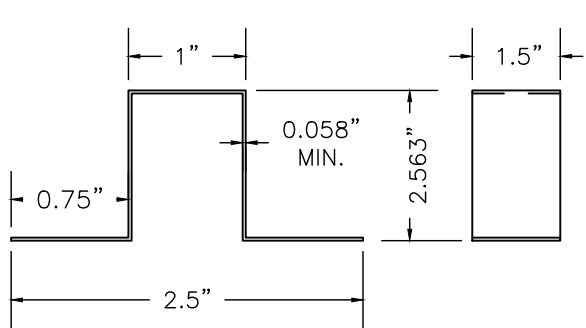
Digitally signed
by Robert J
Amoruso
Date: 2026.01.31
12:32:51 -05'00'

PROJECT#: ACE-2025-126

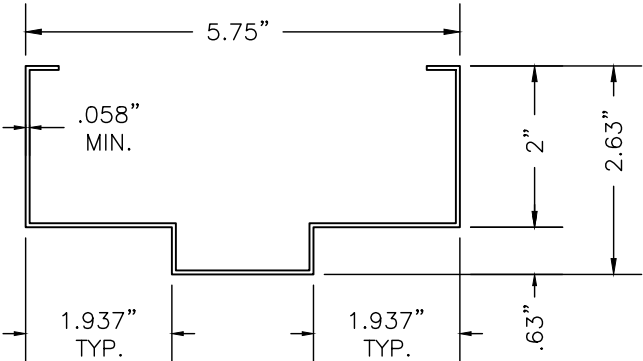
DWG/REV: HMF0006, Rev C

SHT: 4 of 5

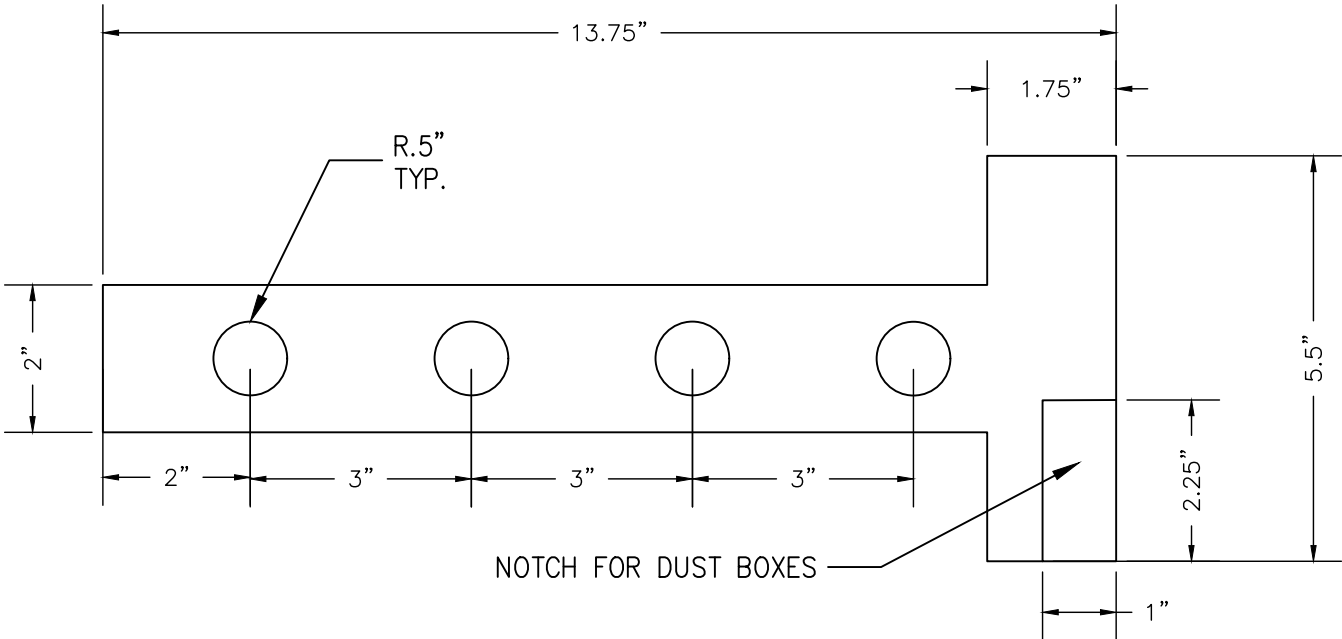
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERAILS
C	¼" MAX. SHIM SPACE	-
E	MASONRY- 2,500 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (GROUT FILLED) CONFORMING TO ASTM C90	CONCRETE
J	⅜" DIA. PFH DYNABOLT SLEEVE ANCHOR (SEE ANCHOR TABLE ON SHEET 4)	STEEL
M	⅜" DIA. LDT TAPCON CONCRETE SCREW (SEE ANCHOR TABLE ON SHEET 4)	STEEL
2	GLAZING BEAD	STEEL
3	#6 X 1-1/4" PFH SMS	STEEL
9	ANCHOR BRACKET	STEEL
25	HOLLOW FRAME (2" JAMB), 16 GA. (MIN. 0.058" THK.)	STEEL
30	MASONARY "T" ANCHOR	STEEL
35	WIRE ANCHOR	STEEL



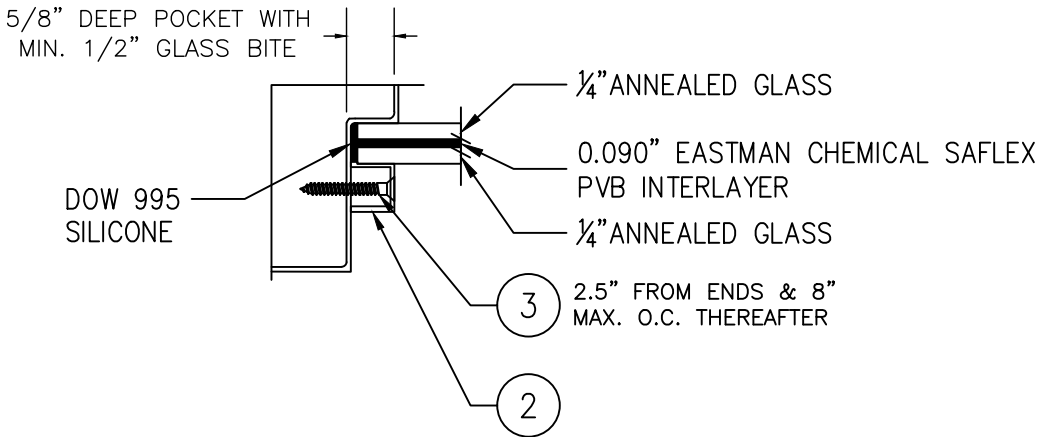
9 ANCHOR BRACKET



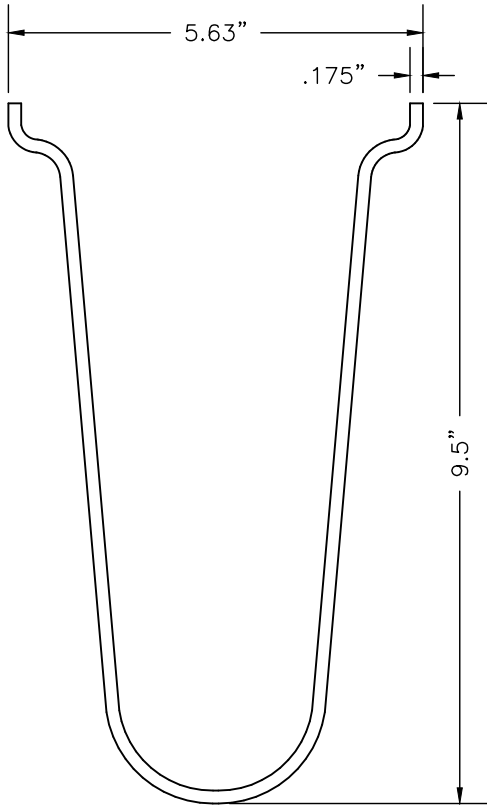
25 HOLLOW METAL FRAME
2" JAMB



30 "T" ANCHOR
0.058" THICK STEEL



G1 GLAZING DETAIL



35 WIRE ANCHOR

HMF EXPRESS
2501 NORTHCHASE
PARKWAY SE
WILMINGTON, NC 28405

SERIES BORROW LITE STEEL FRAME - IMPACT TRANSOM - SIDELIGHT FOR SWINGING DOOR ASSEMBLY INSTALLATION ANCHORAGE DETAILS							
NO.	REVISION DESCRIPTION	BY	DATE				
C	ADD ALTERNATE LOCKING HARDWARE	RJA	1/27/26				

DATE: 2/27/2019	DWN BY: DAS/RJA	CHK BY: RJA	SCALE: NONE
--------------------	--------------------	----------------	----------------

ROBERT J. AMORUSO, P.E. #49752
AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM



Digitally signed
by Robert J
Amoruso
Date: 2026.01.31
12:33:01 -05'00'

PROJECT#:	ACE-2025-126
DWG/REV:	HMF0006, Rev C
SHT:	5 of 5