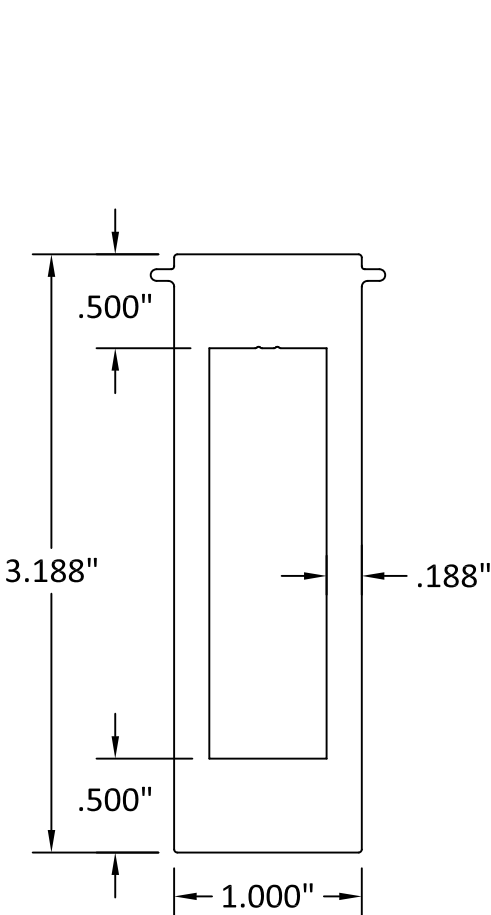


# AIR MASTER AWNING, LLC

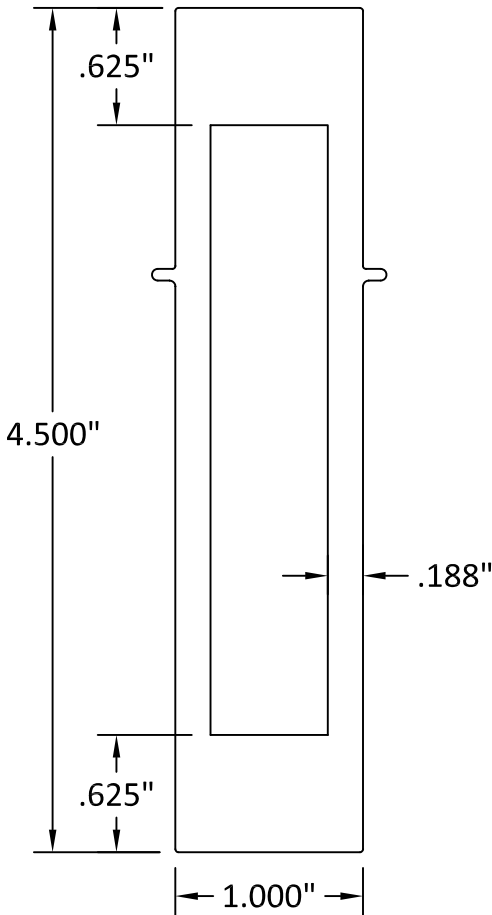
## AIR MASTER MULLION FOR USE WITH SINGLE HUNG IG SERIES PRODUCTS

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - TAS 201-94
  - TAS 202-94
  - TAS 203-94
2. THIS FLORIDA PRODUCT APPROVAL QUALIFIES THE USE OF AIR MASTER AWNING, LLC MULLION FOR USE WITH AIR MASTER AWNING, LLC INSULATED GLASS "IG" SERIES WINDOWS, FOR THE SIZES AND CONFIGURATIONS APPROVED WITHIN THIS DOCUMENT. THIS MULLION MAY BE USED WITH THE INSULATED GLASS SERIES SINGLE HUNG WINDOW, HORIZONTAL ROLLING WINDOW AND PICTURE WINDOW. ALL WINDOWS ARE UNDER SEPARATE APPROVAL AND APPROVED FOR LARGE AND SMALL MISSILE IMPACT RESISTANCE.
3. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, STEEL, 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.
4. 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.
5. 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 IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE RER.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
7. MULLION MATERIAL: ALUMINUM 6063-T6
8. DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE FBC.



3-3/16" MULLION



4-1/2" MULLION

| TABLE OF CONTENTS |          |                                 |
|-------------------|----------|---------------------------------|
| SHEET             | REVISION | SHEET DESCRIPTION               |
| 1                 | -        | GENERAL NOTES & MULL DETAILS    |
| 2                 | -        | QUALIFIED CONFIGURATIONS        |
| 3                 | -        | ASSEMBLY NOTES AND CLIP DETAILS |
| 4                 | -        | TYPICAL MULL SECTION DETAILS    |

| DESIGN PRESSURE RATING |                                |
|------------------------|--------------------------------|
| DESIGN PRESSURE        | MISSILE IMPACT RATING          |
| +/- 73.7 PSF           | LARGE AND SMALL MISSILE IMPACT |

PREPARED BY:



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TITLE: AIR MASTER MULLION FOR  
SH IG SERIES PRODUCTS  
GENERAL NOTES AND MULL DETAILS

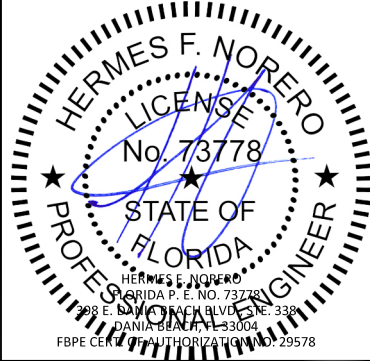
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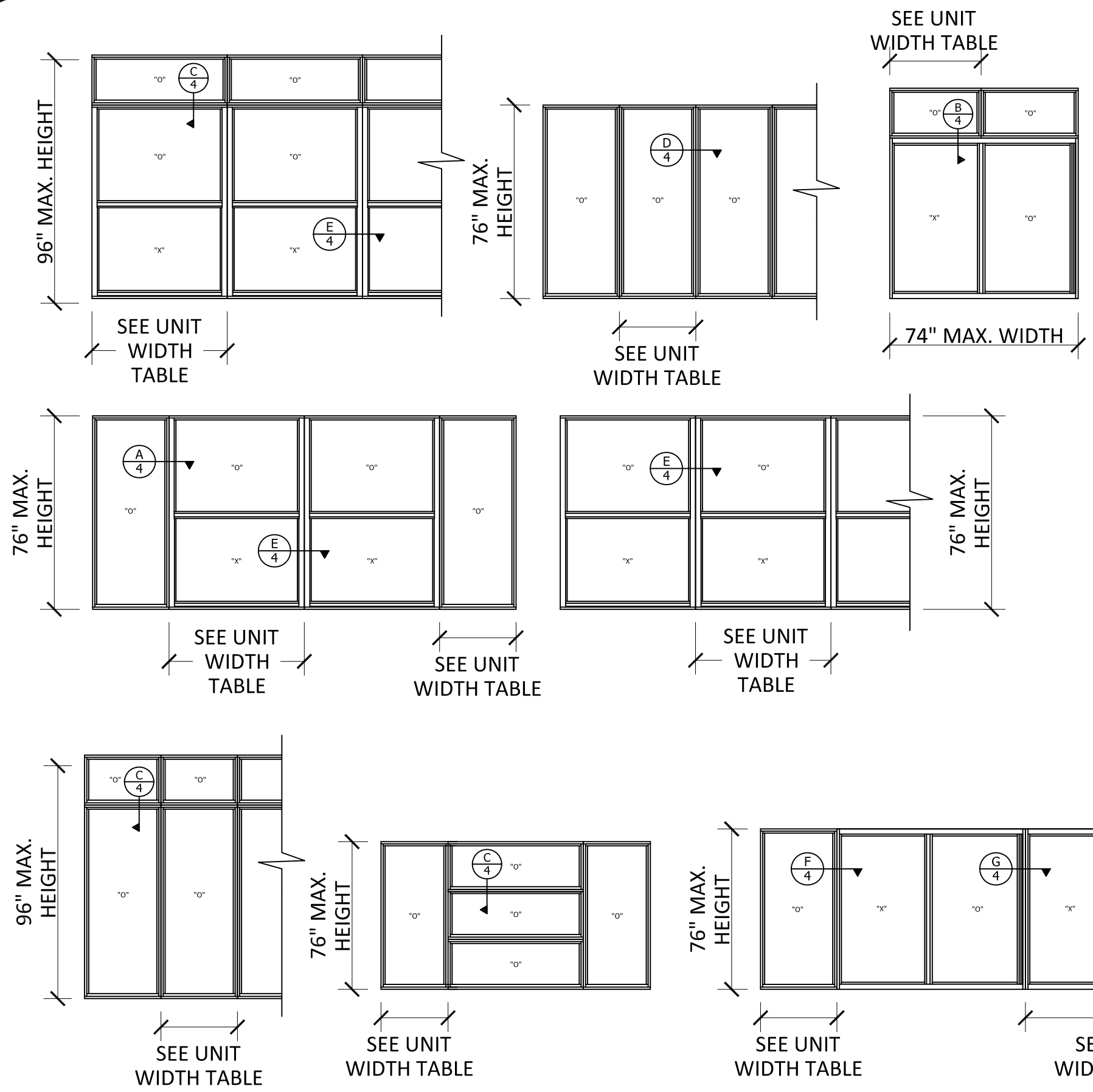
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Reason: I am approving this document  
Date: 2017.02.23 19:35:14 -05'00'

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| SHEET:   | OF 4     |

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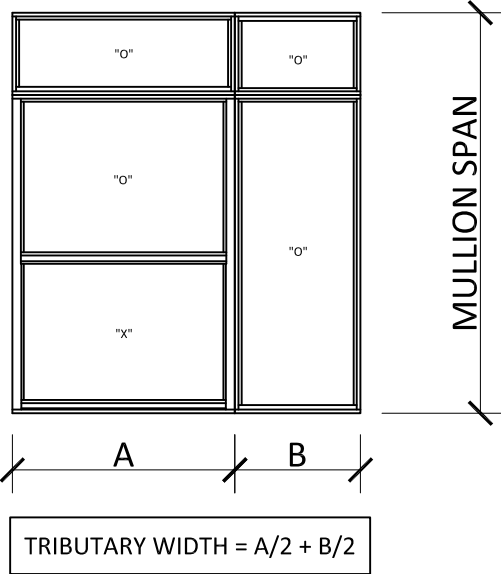
| MULLION ALLOWABLE SPANS AND TRIBUTARY WIDTHS |                        |                           |
|----------------------------------------------|------------------------|---------------------------|
| MULLION DEPTH                                | ALLOWABLE MULLION SPAN | ALLOWABLE TRIBUTARY WIDTH |
| 3-3/16"                                      | 76"                    | 30"                       |
| 4-1/2"                                       | 96"                    | 53-1/8"                   |

SEE BELOW DIAGRAM FOR DIAGRAM ILLUSTRATING HOW TO DETERMINE SPANS AND TRIBUTARY WIDTHS

| UNIT WIDTH TABLE          |                      |
|---------------------------|----------------------|
| PRODUCT TYPE              | ALLOWABLE UNIT WIDTH |
| SINGLE HUNG WINDOW        | 53 1/8"              |
| TRANSOM WINDOW            | 53 1/8"              |
| PICTURE WINDOW            | 30"                  |
| HORIZONTAL ROLLING WINDOW | 74"                  |

- NOTES:
- MULLION IS USED BETWEEN BETWEEN WINDOW FRAMES AS DETAILED ON SHEET 4.
  - WINDOW SIZES SHALL NOT EXCEED THE SPANS AND WIDTHS APPROVED ON THIS PAGE. WINDOWS ARE UNDER SEPARATE APPROVAL AND ARE INDIVIDUALLY IMPACT RATED.
  - THE ELEVATIONS SHOWN ARE TYPICAL QUALIFIED CONDITIONS. ANY COMBINATION OF AIR MASTER WINDOWS WHICH COMPLIES WITH THE REQUIREMENTS IN THE ABOVE TABLES IS QUALIFIED FOR USE, IN ANY QUANTITY.
  - SEE SHEET 3 FOR FABRICATION & ANCHORAGE REQUIREMENT DETAILS.
  - FOR VERTICAL MULLS BETWEEN ROLLING WINDOWS, THE "A" AND "B" DIMENSIONS IN THE DIAGRAM BELOW SHALL BE TAKEN AS HALF OF THE OVERALL WIDTH OF THE INDIVIDUAL WINDOWS WHEN CALCULATING THE TRIBUTARY WIDTH.

TRIBUTARY WIDTH DIAGRAM



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TITLE: AIR MASTER MULLION FOR SH IG SERIES PRODUCTS

QUALIFIED CONFIGURATIONS

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| DWG. #:  | AIR014   |
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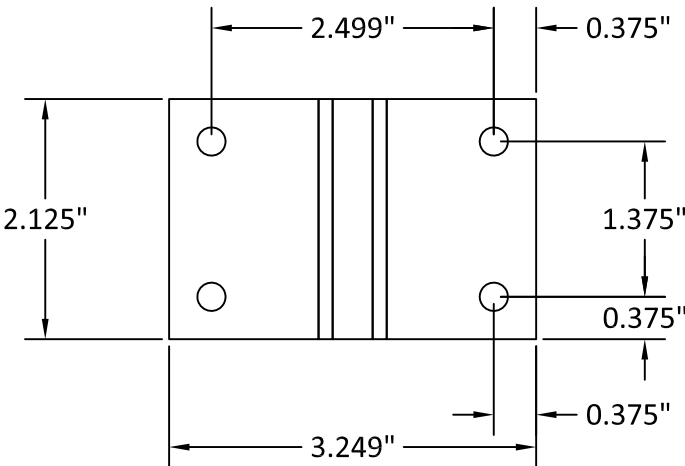
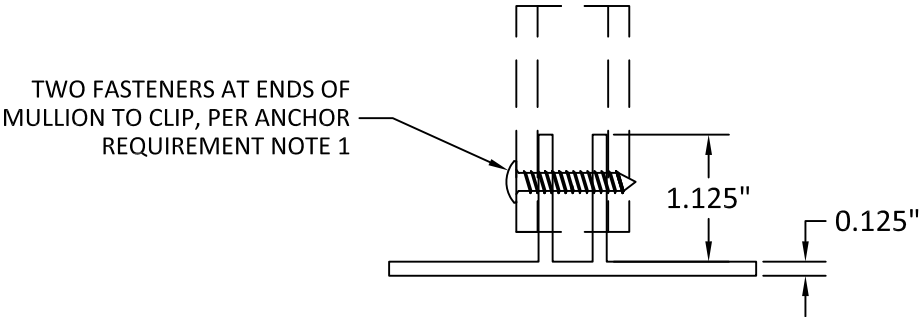
2

AIR MASTER SERIES SH IG PRODUCTS MULLED ASSEMBLY FABRICATION:

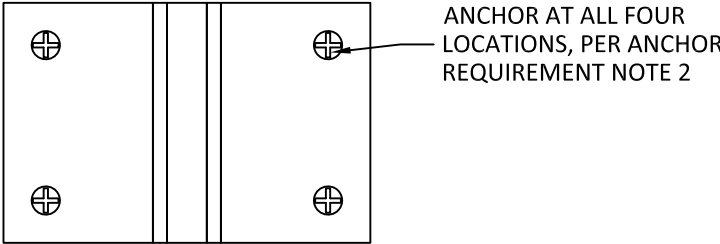
1. WHEN MULLING ANY COMBINATION OF A SINGLE HUNG, PICTURE OR ROLLING WINDOW:
- 1.1. ALL WINDOW FRAMES SHALL BE ATTACHED TO THE MULLION USING #10-24 X 2" S/S MACHINE SCREWS AND BLIND NUT INSERTS AS SHOWN IN DETAILS ON SHEET 4.

AIR MASTER CONTINENTAL SERIES MULLED ASSEMBLY ANCHOR REQUIREMENTS:

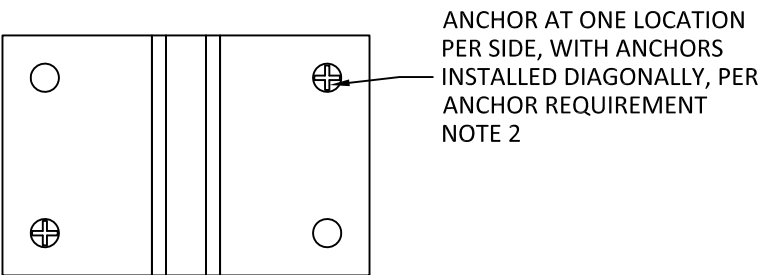
1. USE THE MULLION CLIP SHOWN TO THE RIGHT AT THE END LOCATIONS OF EACH MULLION.
- 1.1. FASTEN CLIPS TO MULLION USING TWO #10X2" GR. 5 PH SMS SCREWS AT EACH CLIP AS SHOWN IN DETAIL AT RIGHT.
2. ALL ANCHORS FROM CLIP TO SUBSTRATE SHALL BE AS FOLLOWS AND AS ILLUSTRATED ON THIS SHEET:
- 2.3. FOR 2X WOOD (MIN. S.G. = 0.55) USE FOUR (4) #14 WOOD SCREW PER CLIP, OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 1-1/2" EMBEDMENT AND LOCATE ANCHORS SUCH THAT A MINIMUM EDGE DISTANCE OF 1" IS ATTAINED.
- 2.4. FOR CONCRETE (MIN f'c=3000 PSI) USE TWO (2) 1/4" ELCO AGGRE-GATOR SCREWS PER CLIP, OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 1-3/4" EMBEDMENT AND LOCATE ANCHORS SUCH THAT A MINIMUM EDGE DISTANCE OF 3" IS ATTAINED.
- 2.5. FOR GROUT FILLED CMU (CONFORMS TO ASTM C-90) USE TWO (2) 1/4" ELCO AGGRE-GATOR SCREWS PER CLIP, OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 2" EMBEDMENT AND LOCATE ANCHORS SUCH THAT A MINIMUM EDGE DISTANCE OF 2-1/2" IS ATTAINED.
3. SEE SHEET 4 FOR TYPICAL DETAILS OF THE ANCHOR REQUIREMENTS.
4. ANCHORAGE OF WINDOW FRAME PERIMETER UNDER SEPARATE APPROVAL.



CLIP DETAIL



ANCHOR PATTERN FOR WOOD



ANCHOR PATTERN FOR CONCRETE OR GROUT FILLED CMU

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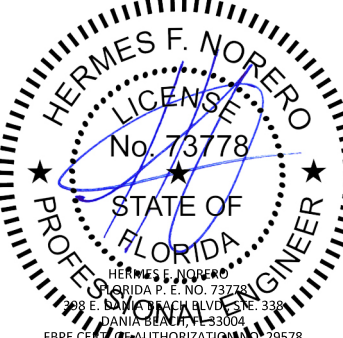
ASSEMBLY NOTES AND CLIP DETAIL

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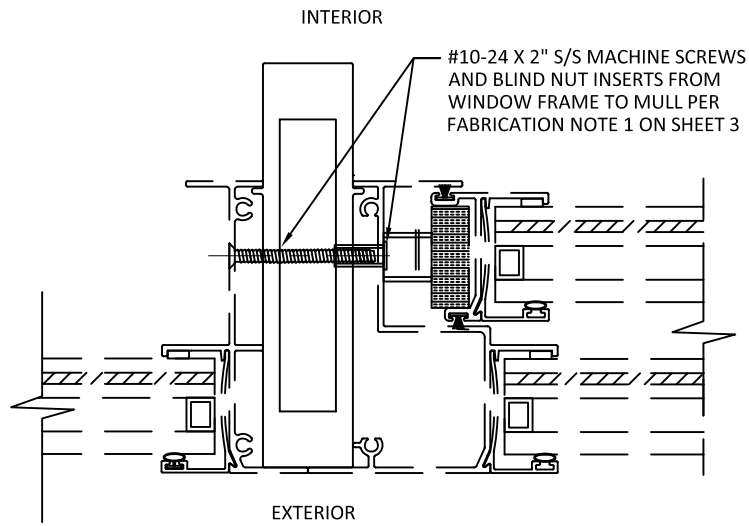


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DANIA BEACH, FL 33004  
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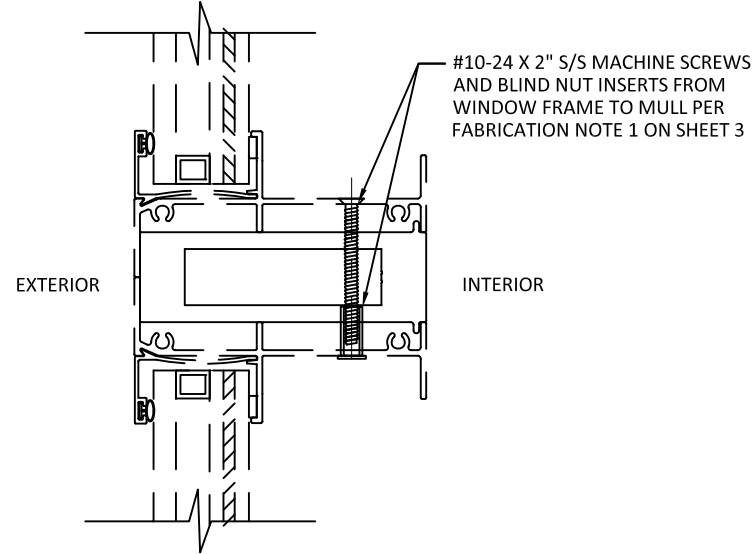
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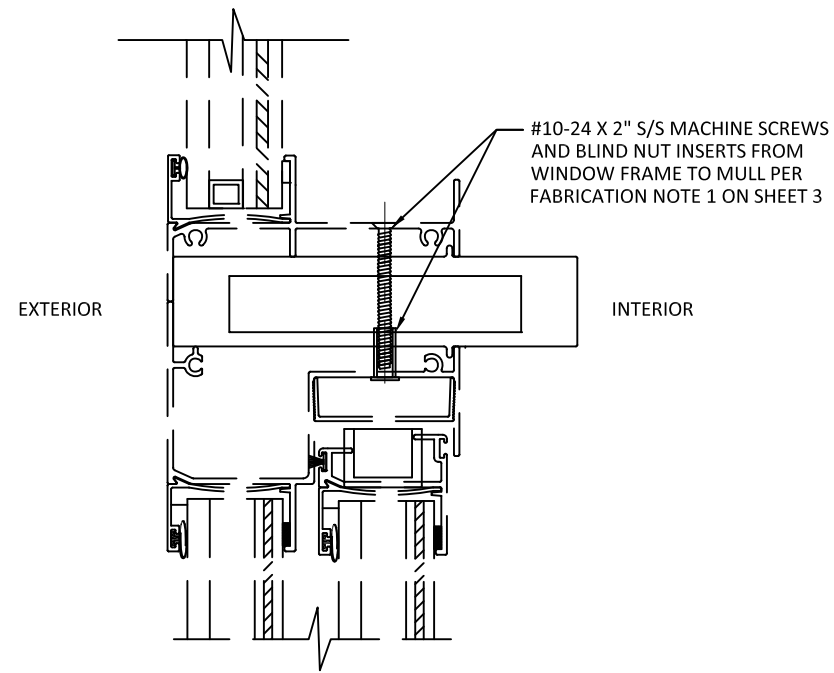


**A**  
4  
**HORIZONTAL SECTION**  
TYPICAL MULL - PICTURE TO SINGLE HUNG  
4 1/2" DEPTH

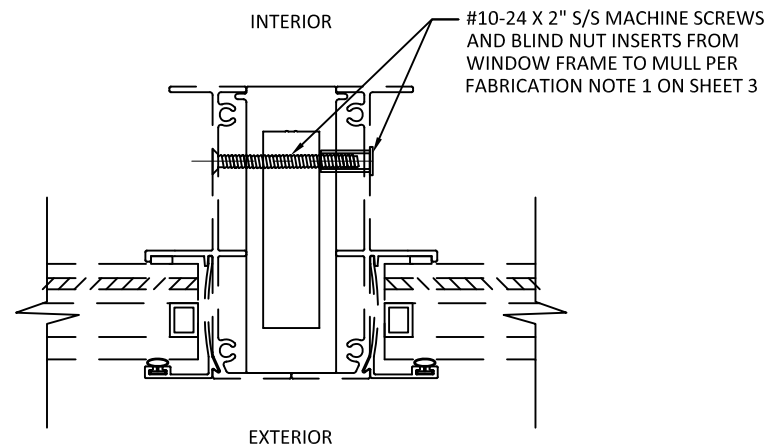


**C**  
4  
**VERTICAL SECTION**  
TYPICAL MULL - PICTURE OVER SH HEAD  
3 3/16" DEPTH

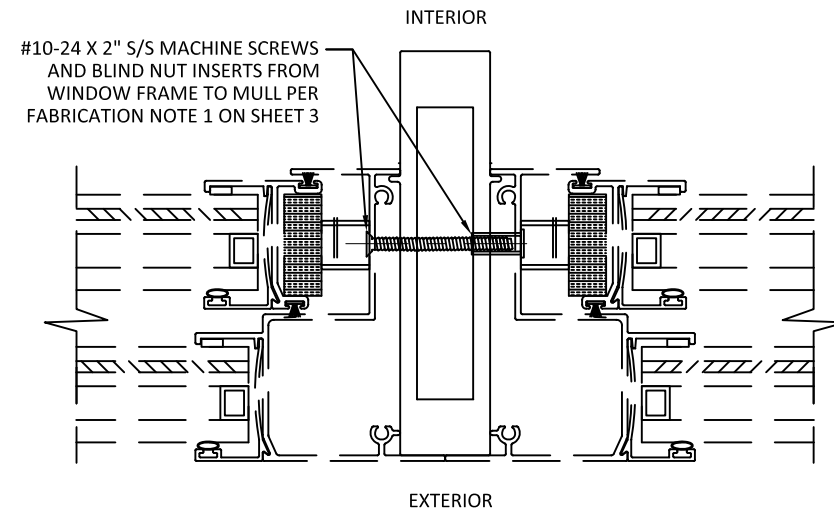
- NOTES:
1. TYPICAL MULLION ASSEMBLIES SHOWN.
  2. REFER TO SHEET 3 ASSEMBLY FASTENER REQUIREMENTS.
  3. WINDOWS UNDER SEPARATE APPROVAL.



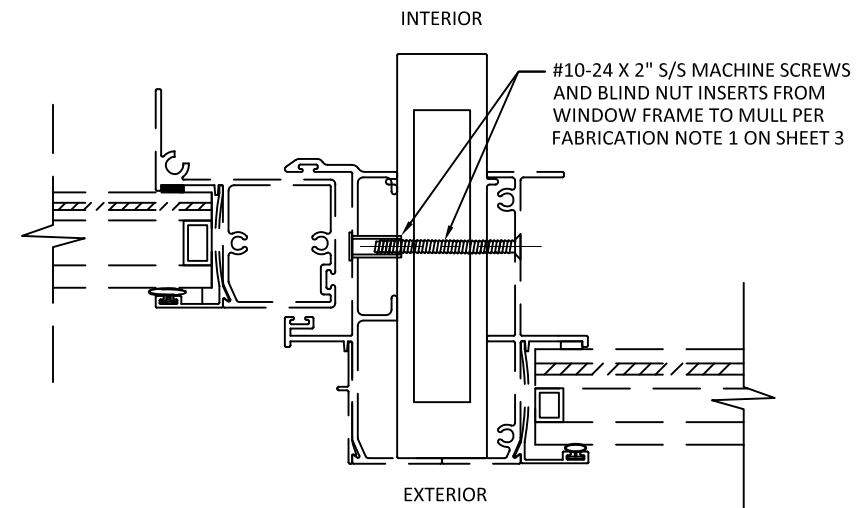
**B**  
4  
**VERTICAL SECTION**  
TYPICAL MULL - PICTURE OVER ROLLING  
4 1/2" DEPTH



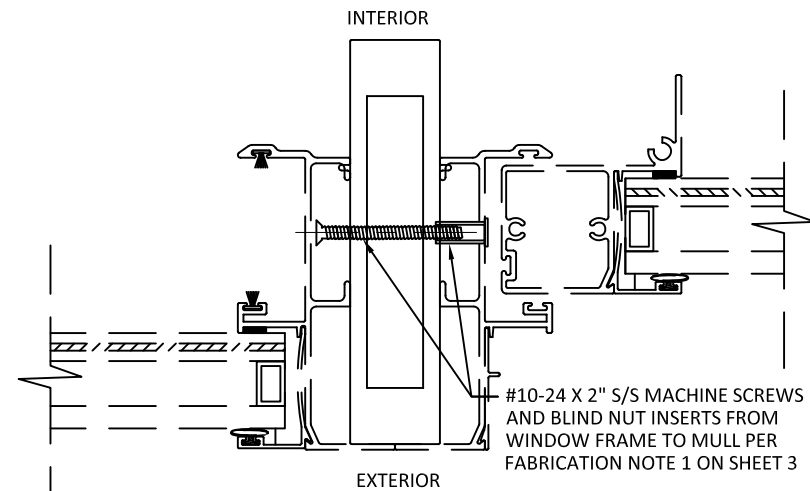
**D**  
4  
**HORIZONTAL SECTION**  
TYPICAL MULL - PICTURE TO PICTURE  
3 3/16" DEPTH



**E**  
4  
**HORIZONTAL SECTION**  
TYPICAL MULL - SH TO SH  
4 1/2" DEPTH



**F**  
4  
**HORIZONTAL SECTION**  
TYPICAL MULL - ROLLING TO PICTURE  
4 1/2" DEPTH



**G**  
4  
**HORIZONTAL SECTION**  
TYPICAL MULL - ROLLING TO ROLLING  
4 1/2" DEPTH

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TYPICAL SECTION  
DETAILS

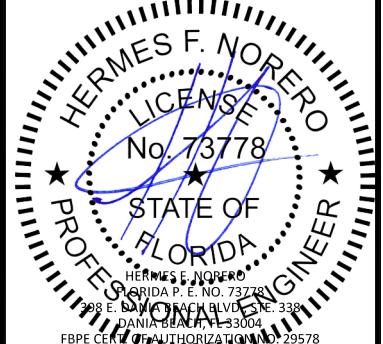
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