

YKK AP AMERICA

YOW 225TUH SERIES WINDOWS

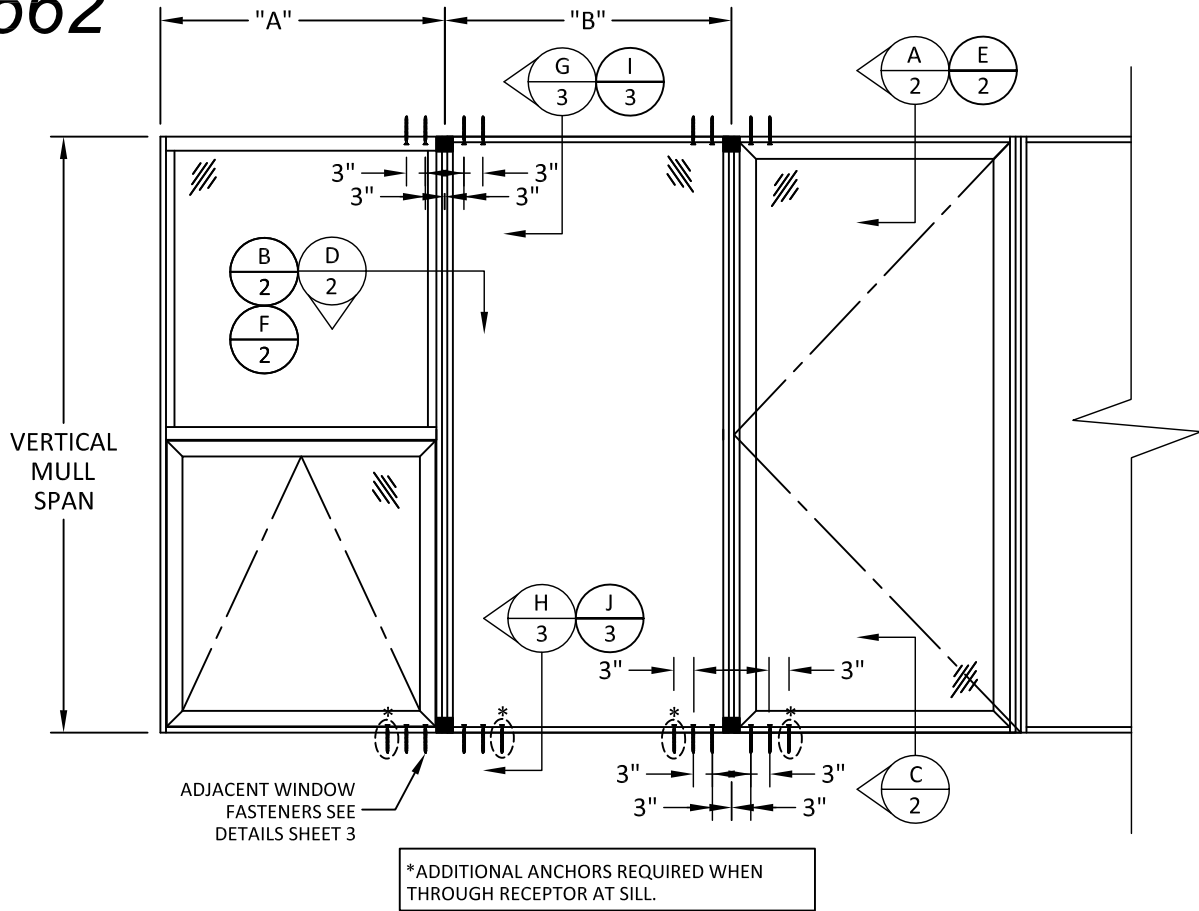
STACKING MULLIONS - 4562

INSTALLATION NOTES:

- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL ANCHORS WITHIN A TOLERANCE OF +/-1/2 INCH OF THE DEPICTED LOCATION AS SPECIFIED. TOLERANCES ARE NOT CONSIDERED CUMULATIVE FROM ONE LOCATION TO THE NEXT.
- FOR MULLION CLIP: USE TWO (2) #14 WOOD SCREWS PER CLIP (FOUR PER MULLION END), OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/2" INTO WOOD FRAMING. INSTALLATION SHALL MAINTAIN A MINIMUM EDGE DISTANCE OF 3/4" (SEE INSTALLATION DETAILS ON SHEET 2).
- FOR MULLION CLIP: USE ONE (1) 1/4" ITW TAPCON PER MULLION PER CLIP (TWO PER MULLION END) OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/4" INTO CONCRETE OR MASONRY. INSTALLATION SHALL MAINTAIN A MINIMUM EDGE DISTANCE OF 2 1/2" (SEE INSTALLATION DETAILS ON SHEET 2).
- FOR MULLION CLIP: USE TWO (2) 1/4-20 MIN. GR. 5 SELF-DRILLING OR SELF-TAPPING SCREWS PER CLIP (FOUR PER MULLION END) OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREADS PENETRATION BEYOND METAL SUBSTRATE. (SEE INSTALLATION DETAILS ON SHEET 2).
- FOR ADJACENT WINDOWS: USE #14 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/2" INTO WOOD FRAMING. INSTALLATION SHALL MAINTAIN A MINIMUM EDGE DISTANCE OF 3/4" (SEE INSTALLATION DETAILS ON SHEET 3).
- FOR ADJACENT WINDOWS: USE 1/4" ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/4" INTO CONCRETE OR MASONRY. INSTALLATION SHALL MAINTAIN A MINIMUM EDGE DISTANCE OF 2 1/2" (SEE INSTALLATION DETAILS ON SHEET 3).
- FOR ADJACENT WINDOWS: USE 1/4-20 MIN. GR. 5 SELF-DRILLING OR SELF-TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREADS PENETRATION BEYOND METAL SUBSTRATE. (SEE INSTALLATION DETAILS ON SHEET 3).
- INSTALLATION ANCHORS THROUGH MULLION CLIPS AND THROUGH ADJACENT WINDOWS SHALL BE USED SIMULTANEOUSLY. SHOULD SEPARATE WINDOW APPROVAL REQUIRE MORE FASTENERS THAN SHOWN HEREIN AT EA. END OF MULL, SEPARATE WINDOW APPROVAL SHALL GOVERN QUANTITY.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK, VENEER, AND SIDING.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - CMU - SHALL CONFORM TO MIN. REQUIREMENTS OF ASTM C90
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. (0.0478") WALL THICKNESS.
 - ALUMINUM - ALLOY SHALL BE MIN. 6063-T5 MINIMUM (0.125") WALL THICKNESS.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE, EXCLUDING HVHZ.
- APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THIS PRODUCT IN WIND BORNE DEBRIS REGIONS ZONE 3 OR LESS SUCH THAT ADJOINING WINDOWS ARE EQUALLY IMPACT RATED.
- APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGION ZONE 4.
- 2X WOOD BUCKS AND METAL STUDS TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE AND IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 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.
- THIS MULLION IS ONLY VALID WHEN USED IN CONJUNCTION WITH APPLICABLE YKK AP AMERICA PRODUCTS. QUALIFIED CONFIGURATIONS INCLUDE BUT NOT LIMITED TO, FIXED-FIXED, FIXED-OPERABLE, & OPERABLE-OPERABLE CONFIGURATIONS OF CASEMENT, PROJECT OUT, AND FIXED WINDOW PRODUCTS.
- ALL WINDOWS USED WITH THIS MULLION SHALL BE QUALIFIED UNDER SEPARATE APPROVAL. THE LESSER DESIGN PRESSURE RATING OF THE WINDOW OR THE MULLION OF INSTALLATION SHALL GOVERN THE OVERALL DESIGN PRESSURE OF THE ASSEMBLY.
- MULLION MATERIAL: 6063-T5 ALUMINUM.
- CLIP MATERIAL: 6063-T5 ALUMINUM.
- ALL STRUCTURAL MATERIAL & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.



VERTICAL MULLION

SEE GEN. NOTE 6 FOR QUALIFIED CONFIGURATIONS

TABLE OF CONTENTS

SHEET	REVISION	SHEET DESCRIPTION
1	A	INSTALLATION & GENERAL NOTES
2	B	CLIPPED MULL INSTALLATION DETAILS
3	-	ADJACENT WNDOW INSTALLATION DETAILS
4	-	4562 CLIPPED MULL DP CHARTS, COMPONENTS & B.O.M
5	-	4562 MULL ASSEMBLY ISO VIEW



YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YOW 225TUH
WINDOWS STACKING MULLIONS
4562

GENERAL NOTES AND ELEVATION

PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004

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FAX: (954)744-4738

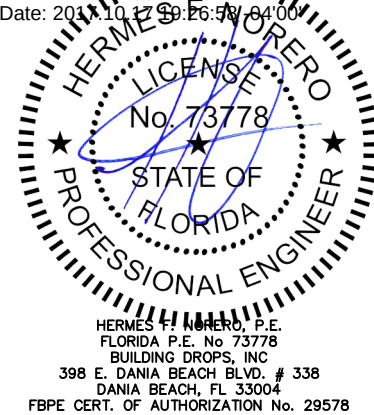
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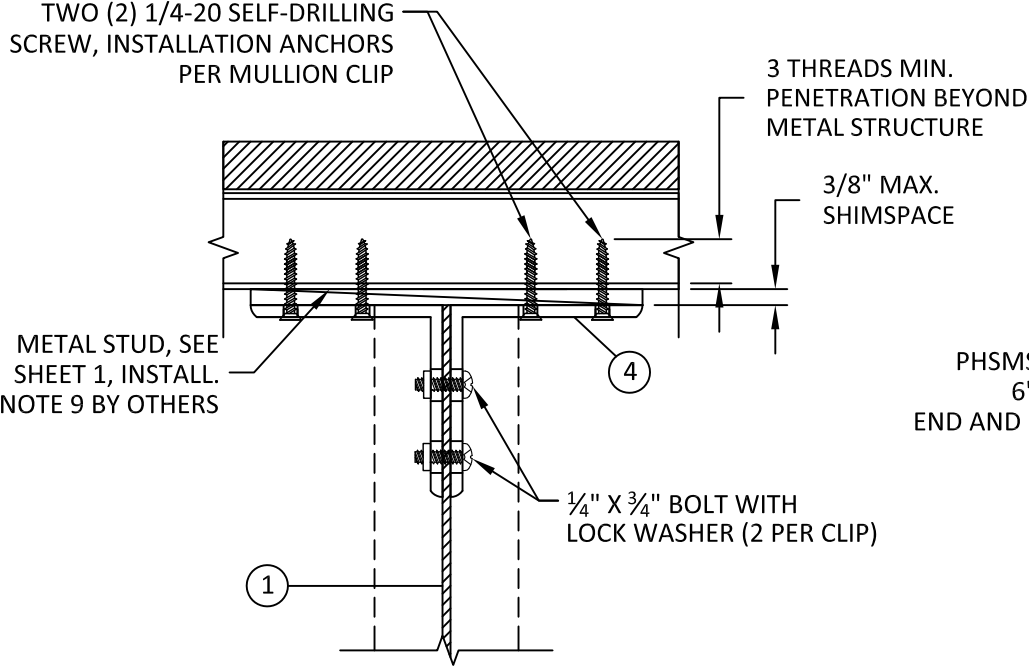
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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2017.10.12 09:26:58 -0400

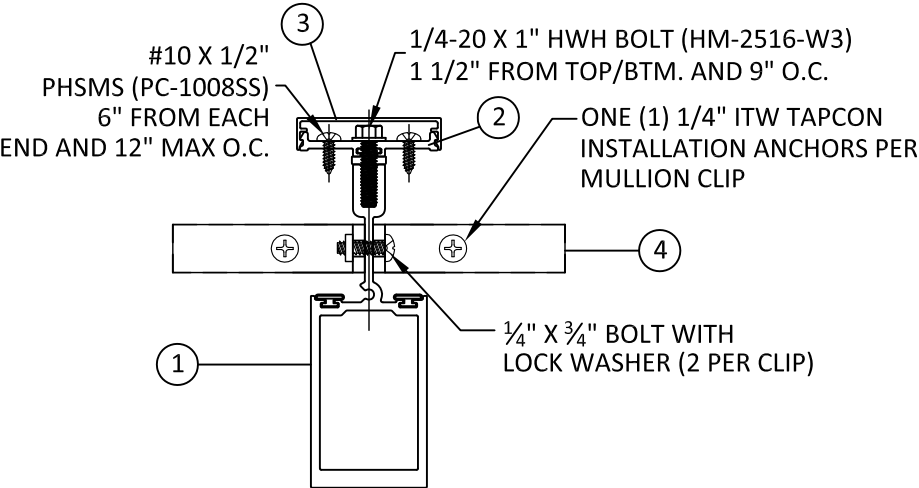


FL #:	FL15729
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK225
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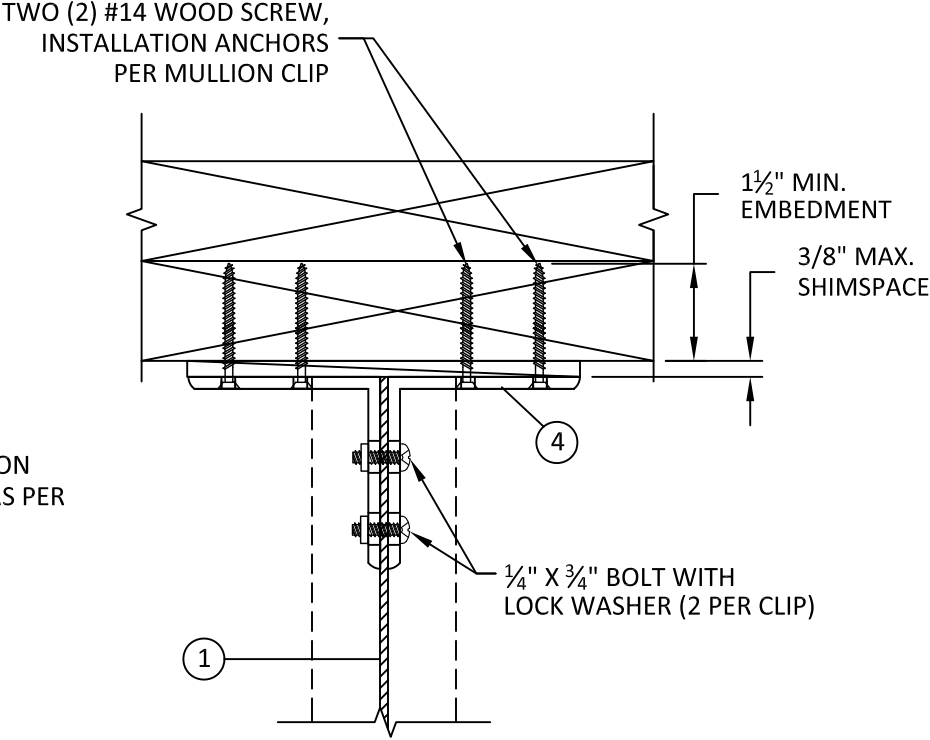
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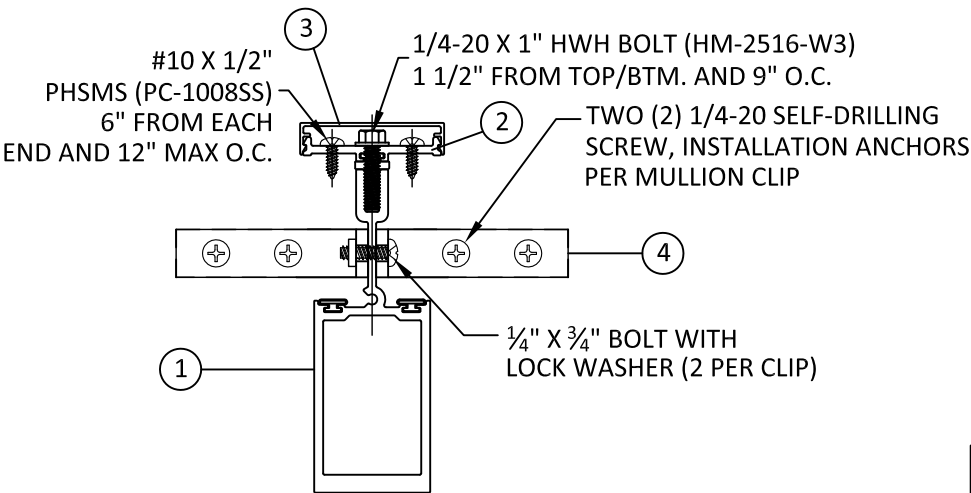
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2 FRONT VIEW
HEAD - METAL STUD
MULLION CLIP



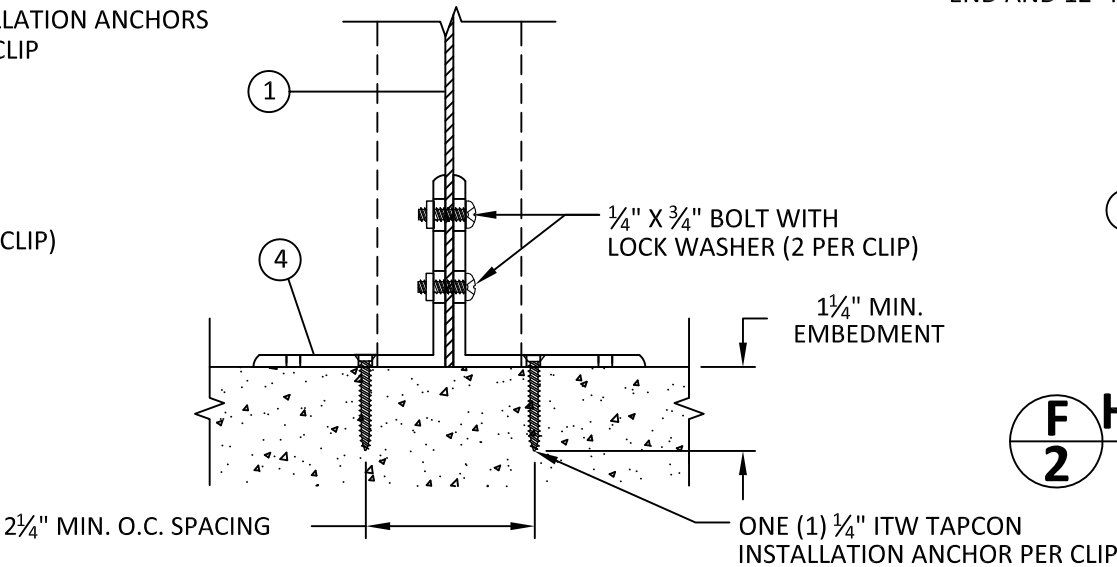
D
2 HORIZONTAL SECTION
CONCRETE/MASONRY
MULLION CLIP



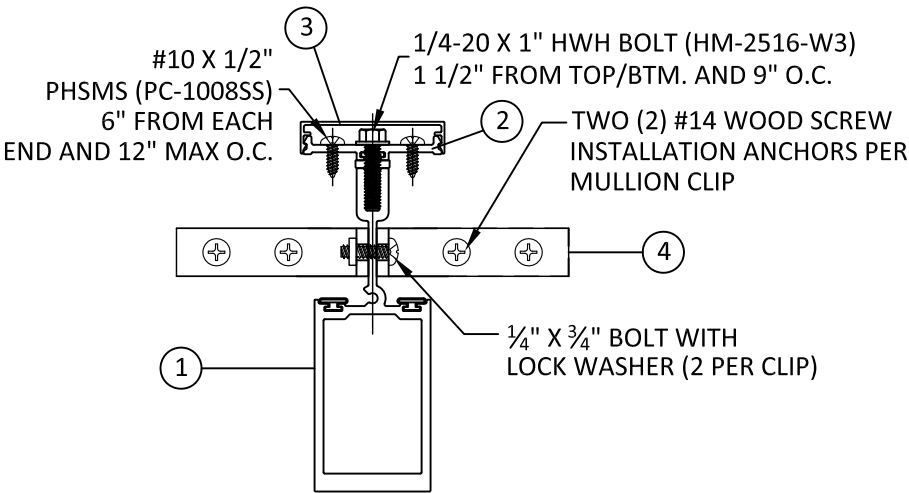
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2 FRONT VIEW
HEAD - 2X WOOD
MULLION CLIP



B
2 HORIZONTAL SECTION
METAL STUD
MULLION CLIP



C
2 FRONT VIEW
SILL - CONCRETE/MASONRY
MULLION CLIP



F
2 HORIZONTAL SECTION
2X WOOD
MULLION CLIP

NOTE: MULLIONS MAY BE INSTALLED SUCH THAT
TUBE IS ORIENTED TO INTERIOR OR EXTERIOR.



YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021

PH: (478)277-1955 FAX: (678)838-6001

TITLE: YOW 225TUH
WINDOWS STACKING MULLIONS
4562

CLIPPED MULL
INSTALLATION DETAILS

PREPARED BY:

BUILDING DROPS, INC.

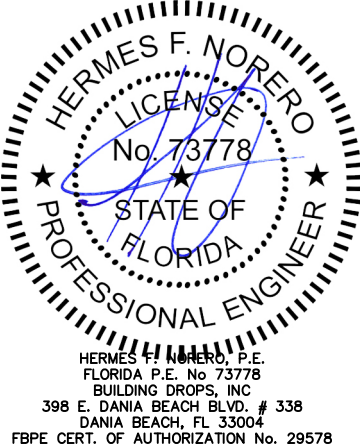
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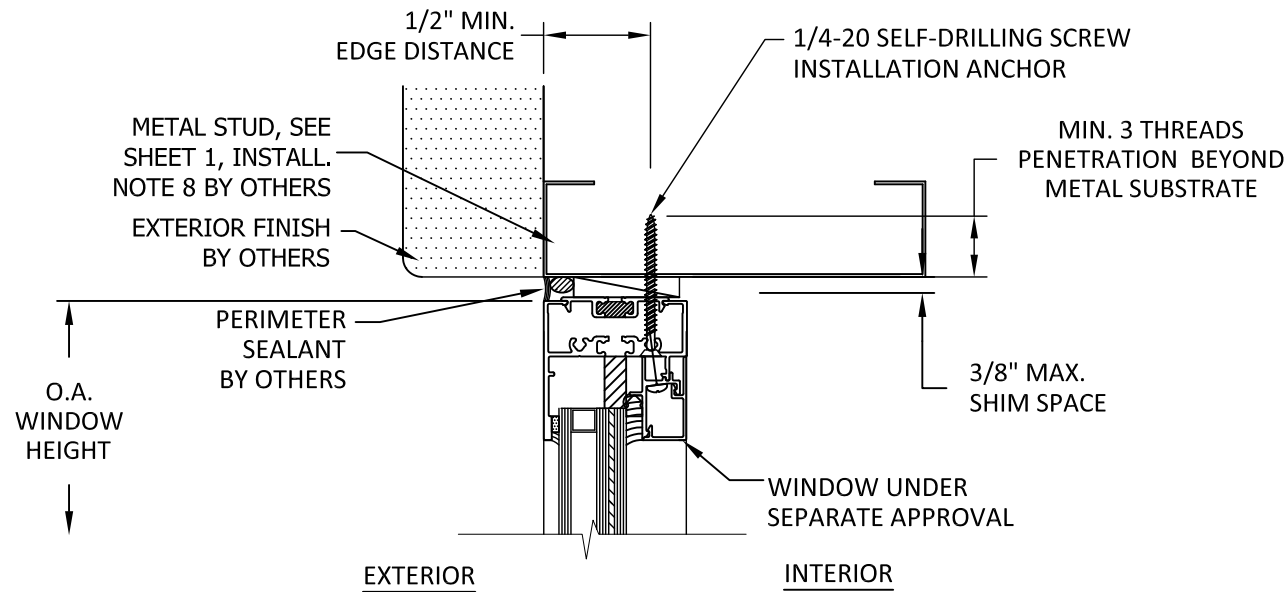
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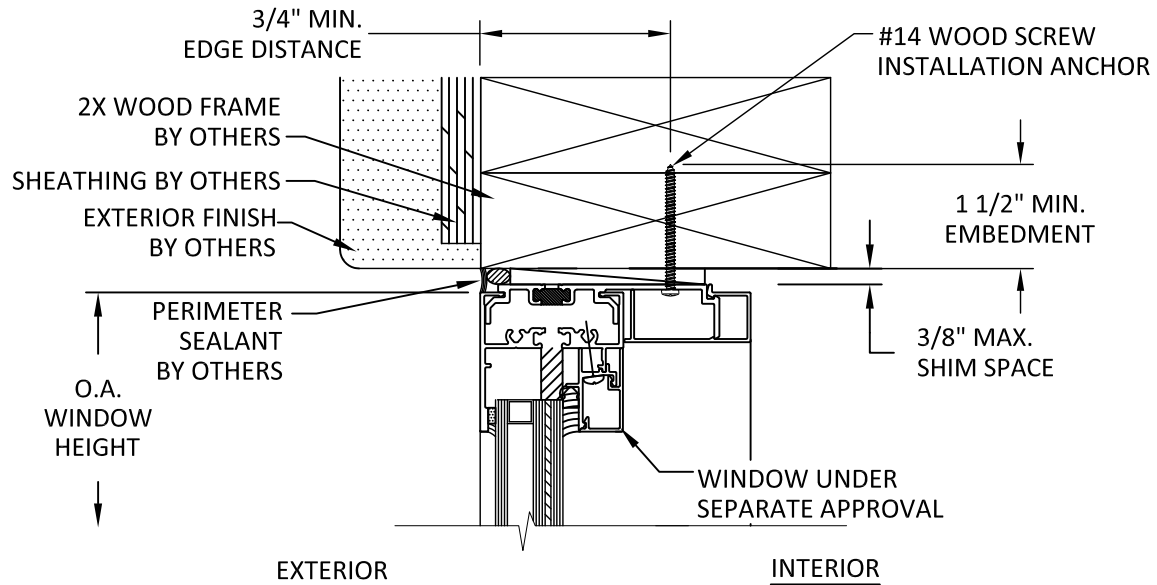
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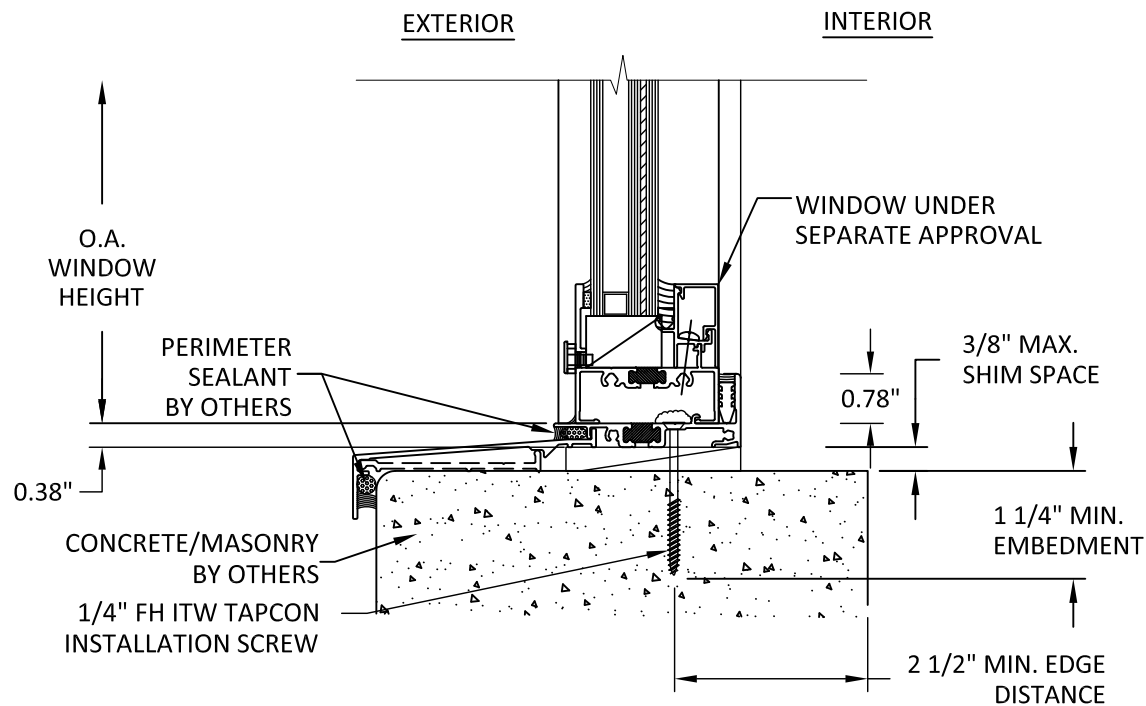


G
3 **VERTICAL SECTION**
HEAD - METAL STUD
THROUGH FRAME - TYP.

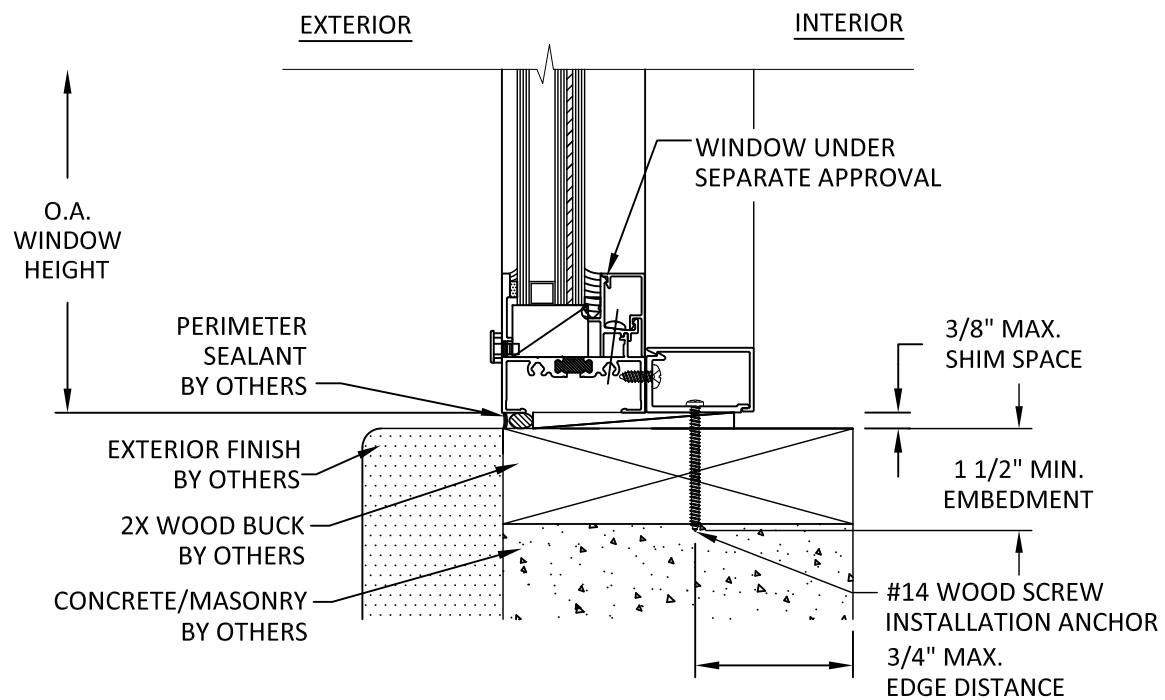


I
3 **VERTICAL SECTION**
HEAD - 1X WOOD BUCK
STRAP ANCHOR - TYP.

NOTE:
1. SEE SHEET 1 FOR ANCHOR QUANTITY & SPACING AT MULLION



H
3 **VERTICAL SECTION**
SILL - 2X WOOD BUCK
RECEPTOR - TYP.



J
3 **VERTICAL SECTION**
SILL - CONCRETE/MASONRY
CLIP INSTALLATION - TYP.



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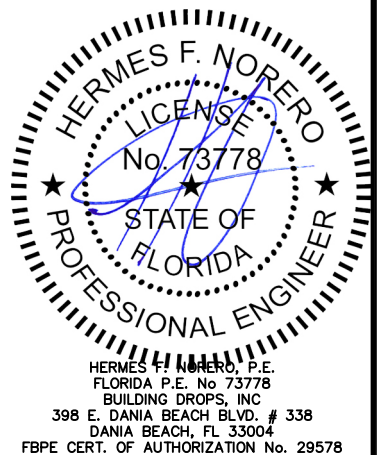
ADJACENT WINDOW
INSTALLATION DETAILS

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3

4562 CLIPPED MULL DP CHART

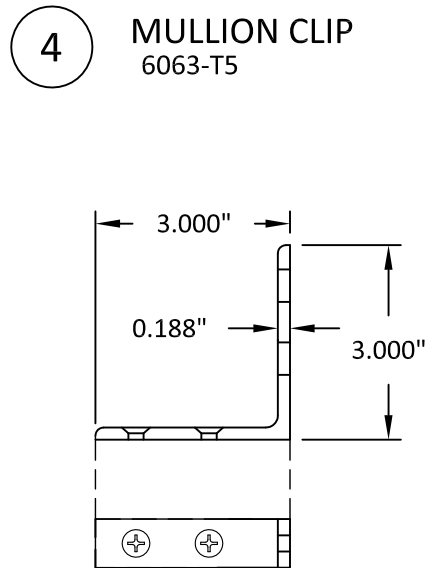
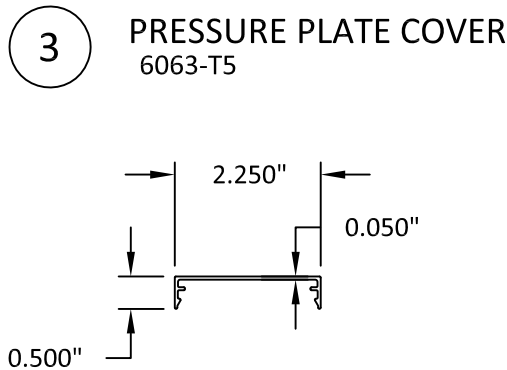
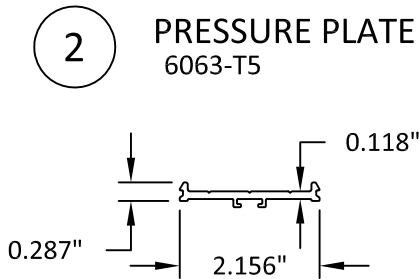
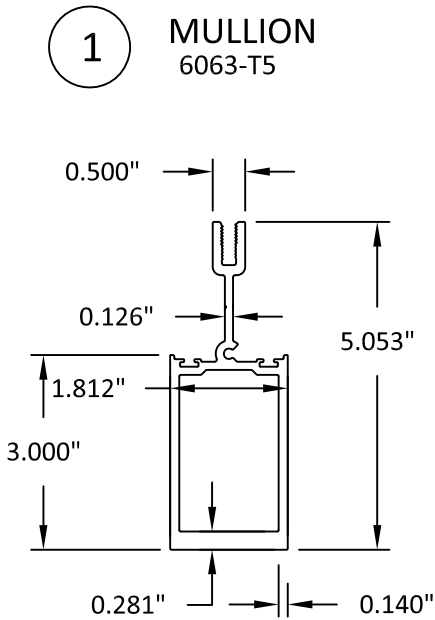
Maximum design pressure capacity (NONHVHZ)

YOW 225TUH Series Windows: Stacking Mullions - 4562

Design pressures are limited either by mullion or anchor screws or anchor clip capacity

Span (in)	Tributary Width (in)											
	20.0	24.0	28.0	32.0	36.0	38.0	40.0	44.0	48.0	52.0	56.0	62.0
68.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	142.3	136.4	131.9	128.6	88.0
72.0	150.0	150.0	150.0	150.0	148.1	143.0	138.5	130.9	125.0	120.4	116.9	75.4
76.0	150.0	150.0	150.0	150.0	137.9	133.0	128.6	121.2	113.9	110.8	107.1	65.5
80.0	150.0	150.0	150.0	140.6	127.4	121.7	116.6	108.1	101.2	102.6	98.9	57.5
84.0	150.0	150.0	143.9	127.4	114.8	109.6	104.9	97.0	90.7	95.5	91.8	51.0
88.0	150.0	150.0	130.6	115.5	104.0	99.2	94.9	87.6	81.7	89.3	85.7	45.5
92.0	150.0	137.9	119.2	105.3	94.7	90.2	86.3	79.6	74.1	83.9	80.4	41.0
93.125	150.0	134.5	116.2	102.7	92.3	87.9	84.1	77.5	72.1	82.5	79.0	39.8
96.0	150.0	126.4	109.2	96.4	86.6	82.5	78.8	72.6	67.5	79.1	75.6	37.1
100.0	92.5	77.5	66.9	59.0	53.0	50.4	48.2	44.3	41.2	74.8	71.4	33.8
104.0	85.4	71.6	61.7	54.4	48.8	46.5	44.4	40.8	37.8	71.0	67.7	30.9
108.0	79.1	66.3	57.2	50.4	45.1	42.9	41.0	37.6	34.9	67.5	64.3	28.3
112.0	73.5	61.6	53.1	46.7	41.8	39.8	38.0	34.9	32.3	64.4	61.2	26.1
116.0	68.5	57.3	49.4	43.5	38.9	37.0	35.3	32.4	30.0	61.5	58.4	24.2
120.0	64.0	53.5	46.1	40.6	36.3	34.5	32.9	30.2	27.9	58.9	55.9	22.4

- NOTES FOR CLIPPED MULLION INSTALLATIONS:
- THE DESIGN PRESSURES IN THIS CHART ARE FOR THE MULLIONS LISTED ABOVE WHEN USED WITH THE APPLICABLE MULLION CLIPS. INDIVIDUAL WINDOWS JOINED THROUGH USE OF THE MULLION DESCRIBED HEREIN ARE UNDER SEPARATE APPROVAL.
 - DESIGN PRESSURES APPLY TO INSTALLATIONS IN WHICH MULLIONS ARE CLIPPED AS SHOWN ON SHEET 2 AND ADJACENT WINDOWS ARE INSTALLED AS SHOWN IN TYPICAL INSTALLATION DETAILS ON SHEET 3 (SEE SHEET 1 FOR REQUIRED QUANTITIES).
 - INSTALLATION ANCHORS THROUGH MULLION CLIPS AND THROUGH ADJACENT WINDOWS SHALL BE USED SIMULTANEOUSLY. SHOULD SEPARATE WINDOW APPROVAL REQUIRE MORE FASTENERS THAN SHOWN HEREIN AT EA. END OF MULL, SEPARATE WINDOW APPROVAL SHALL GOVERN QUANTITY.
 - DESIGN PRESSURES HAVE BEEN DETERMINED IN ACCORDANCE WITH FBC SECTION 1709.8.
 - READ WINDOW WIDTH AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE POUNDS PER SQUARE FOOT (PSF).
 - TRIBUTARY WIDTH IS DETERMINED BY THE FOLLOWING (REFER TO ELEVATION, SHEET 1):
6.1. $\text{TRIBUTARY WIDTH} = (A+B)/2$
 - DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING. LESSER DESIGN PRESSURE OF INDIVIDUAL WINDOW OR MULLION OF INSTALLATION SHALL GOVERN.



BILL OF MATERIALS			
ITEM	PART No.	DESCRIPTION	MATERIAL
1	E9-4562	MULLION	6063-T5
2	E9-4231	PRESSURE PLATE	6063-T5
3	E9-5111	PRESSURE PLATE COVER	6063-T5
4	E1-1965	MULLION CLIP	6063-T5



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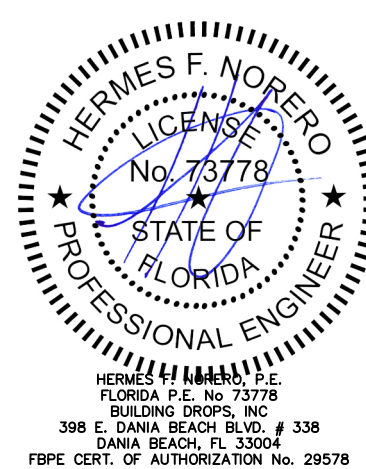
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4562

4562 CLIPPED MULL DP CHART,
COMPONENTS, & B.O.M.

PREPARED BY:
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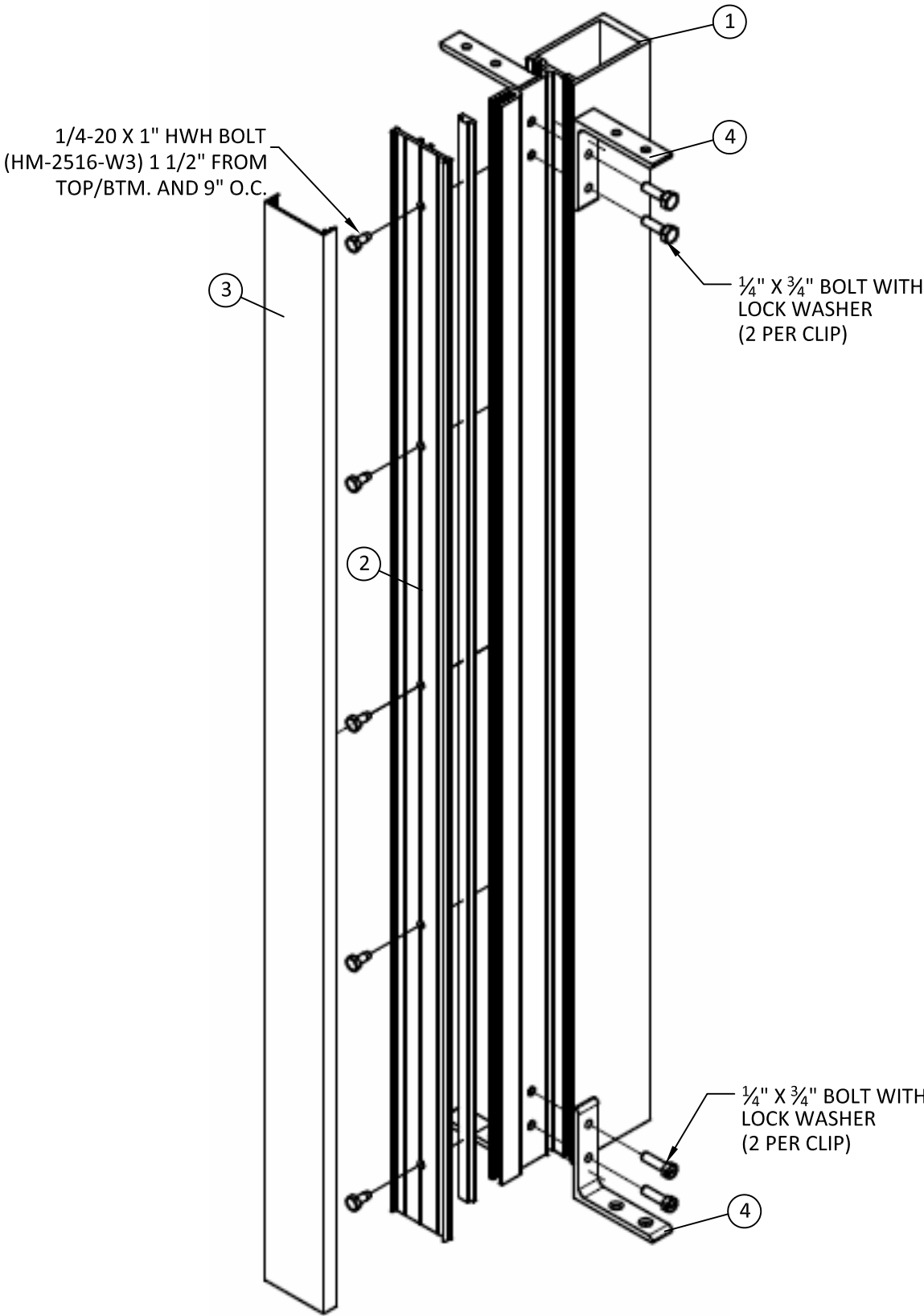
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DWG. #: YKK225

SECTION:

4

OF 5



4562 STACKING MULLION ASSEMBLY
TYPICAL



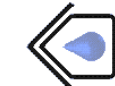
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TITLE: YOW 225TUH
WINDOWS STACKING MULLIONS
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4562 MULL
ASSEMBLY ISO VIEW

PREPARED BY:

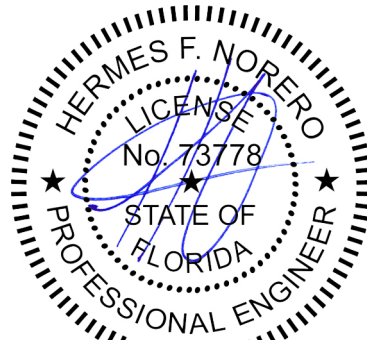


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HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL15729

DATE: **8.22.17**

DWG. BY: EG	CHK. BY: HFN
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SCALE: **NTS**

DWG. #: **YKK225**

SECTION:

5

OF 5