



YKK AP AP AMERICA, Inc.

YHC 300 OG (Insulating Glass)

Curtain Wall Systems

Standard & Heavy Duty Mullions

Missile Level E

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBERS OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITH OUT CONSIDERATION OF TOLERANCE). TOLERANCE ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- REFER TO SECTION 7 & 8 FOR ANCHOR TYPE, SUBSTRATE STRENGTH, EMBEDMENT, & EDGE DISTANCE REQUIREMENTS. FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS FOR INSTALLATION OF ANCHORS.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 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. ADHESIVE ANCHORS MUST BE INSTALLED BY PERSONNEL CERTIFIED FOR THE SPECIFIED ANCHOR INSTALLATION.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- | | |
|--------|---|
| STEP 1 | DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD. |
| STEP 2 | SEE CHARTS ON SECTION 6 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE. |
| STEP 3 | CHECK MULLION CAPACITY FOR A GIVEN SPACING, HEIGHT, SINGLE SPAN, TWIN SPAN, MULTIPLE SPANS AND CORNERS ON SECTION 4. |
| STEP 4 | USING HEAD/SILL ANCHOR DETAILS, SELECT ANCHOR OPTION FROM TABLES ON SECTION 7 & 8 WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE. |
| STEP 5 | CHECK INTERMEDIATE ANCHOR CAPACITY FOR MULTIPLE SPANS USING CHARTS OR DETAILS ON SECTION 8. |
| STEP 6 | THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO ENTIRE SYSTEM. |

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE, INCLUDING REQUIREMENTS FOR HVHZ.
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY , 2X AND STEEL STUD 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.
- 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND THE INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITION CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN , A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- THIS PRODUCT DOES NOT REQUIRE IMPACT PROTECTIVE DEVICES.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE.

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8	WIND/DEAD LOAD ANCHOR DETAILS
9	COMPONENTS & BILL OF MATERIALS



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

TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM

COVER SHEET & GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132

PH: (954)399-8478

FAX: (954)744.4738

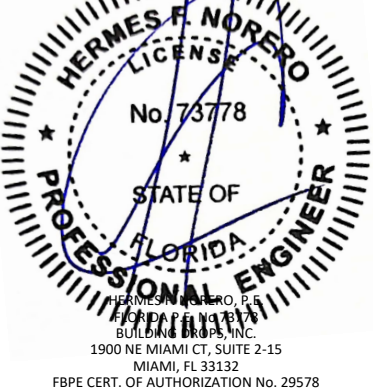
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Reason: I am approving this document
Date: 2026.06.03 13:06:44 -0400



FL #:	FL13433
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AR/RV	HFN
SCALE:	NTS
DWG. #:	YKK206
SECTION:	1.0

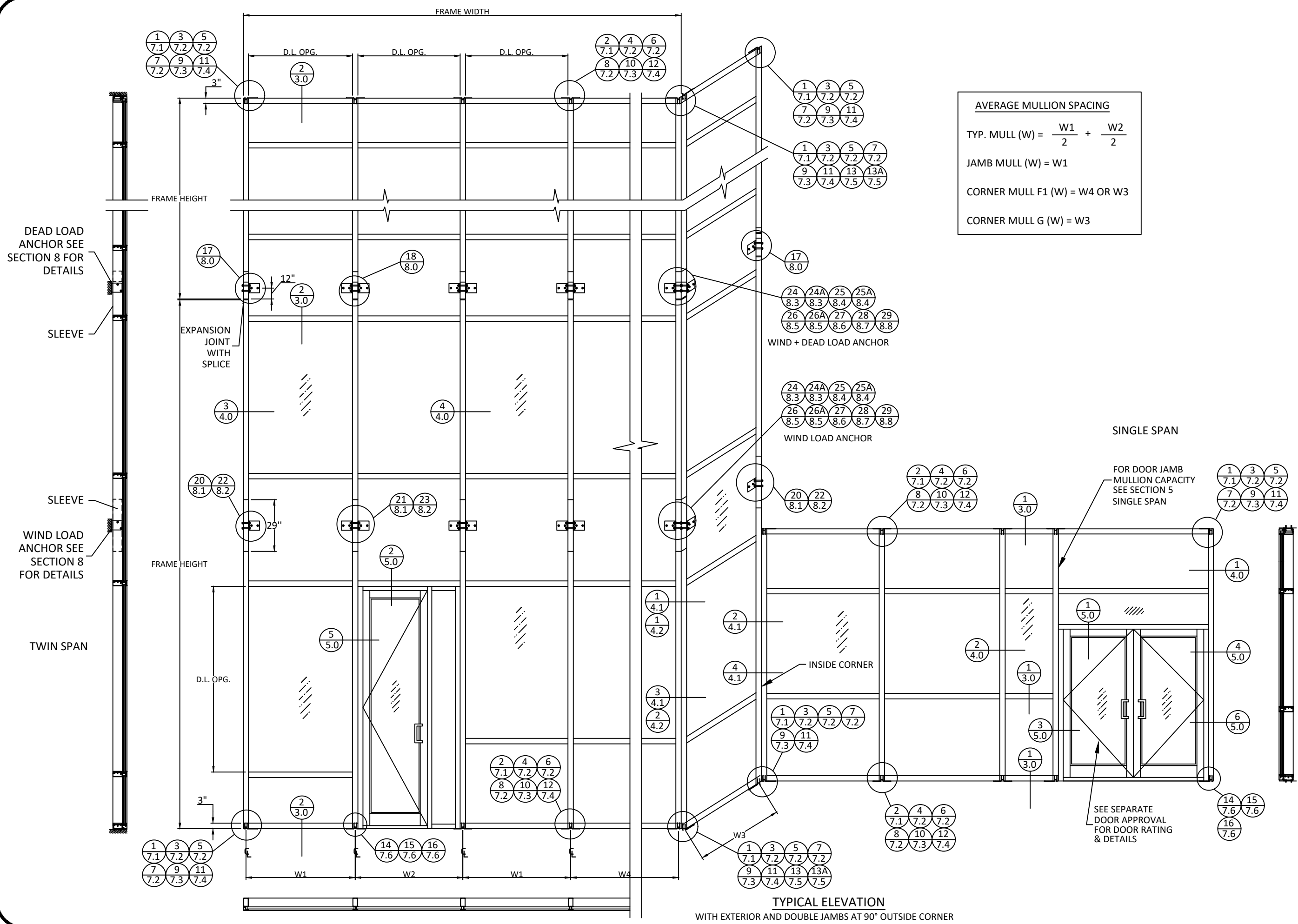
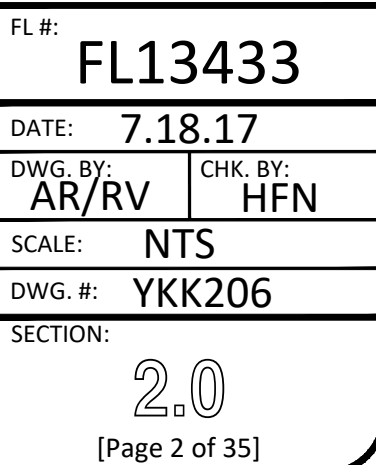
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ELEVATIONS

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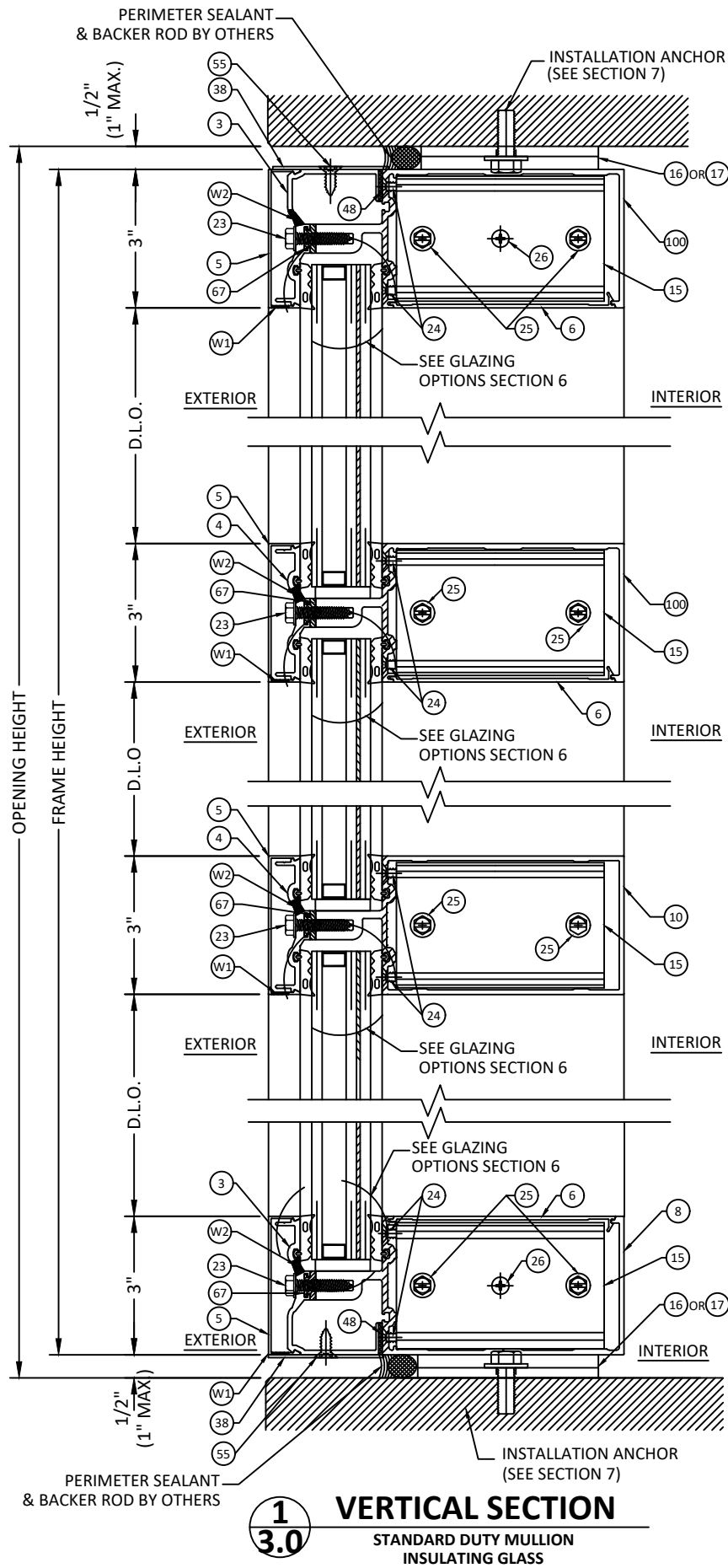


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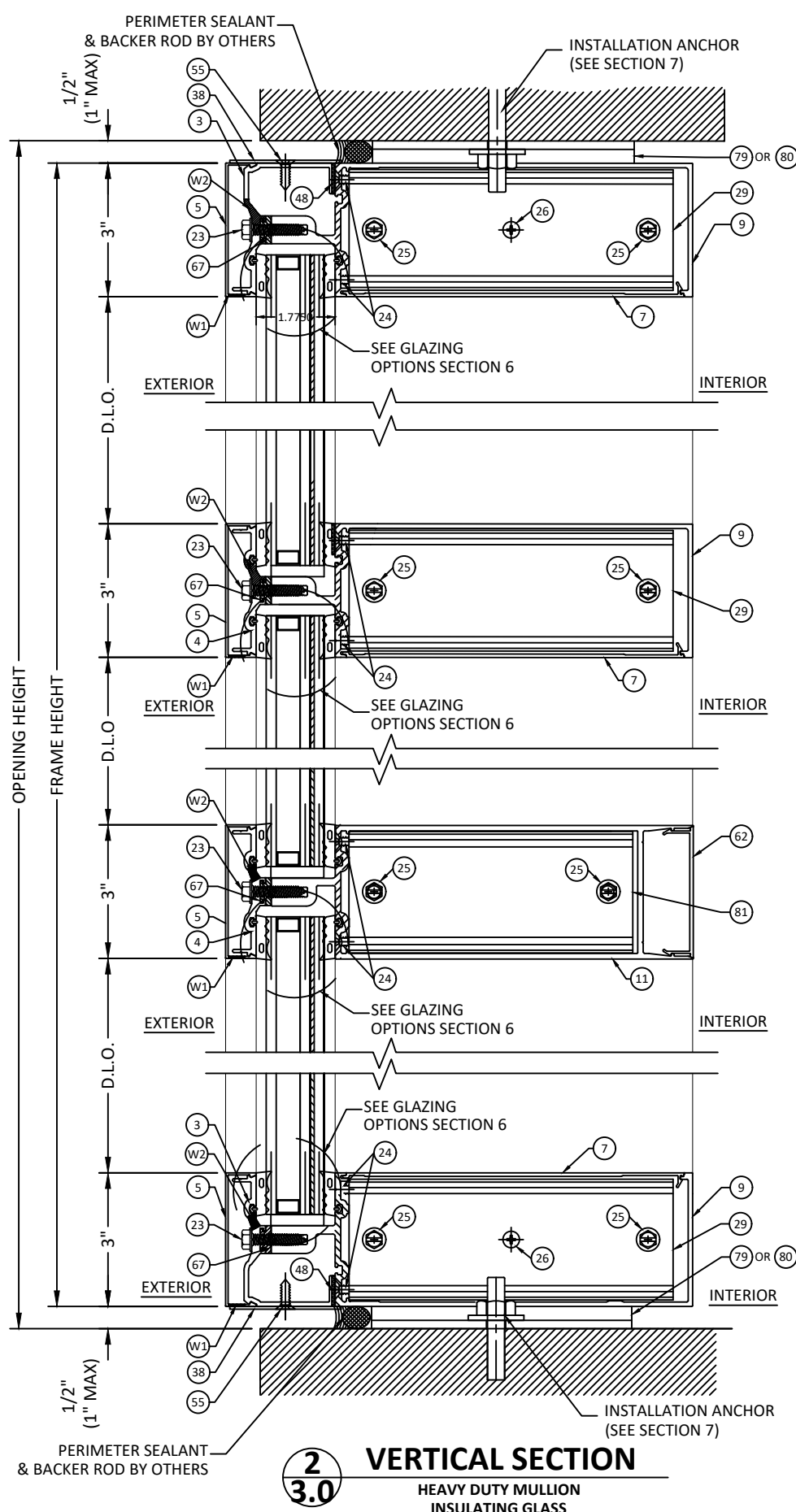
STANDARD DUTY MULLIONS - VERTICAL SECTIONS



WEEPHOLES:
W1 = 5/16" DIA. WEEP HOLES TWO PER D.L. OPNG.
= AT 1/3 POINTS FROM VERTICALS
W2 = 5/16" DIA. WEEP HOLES THREE PER LITE
= AT 3" FROM VERTICALS AND CENTER OF D.L. OPNG.

NOTE:
SOLID SHIM UP TO 1/4" MAY BE USED BETWEEN
ANCHOR & SUBSTRATE INCREASING THE CAULK
JOINT TO 1" ALLOWABLE UNDER THIS
CONDITION.

HEAVY DUTY MULLIONS - VERTICAL SECTIONS





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

TITLE: **YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM**

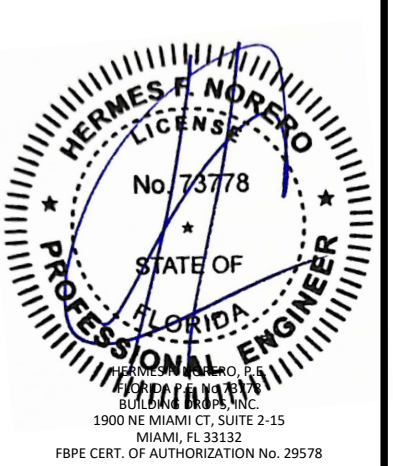
VERTICAL SECTIONS

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HERMES F. NORERO
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No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL13433

DATE: **7.18.17**

DWG. BY:	CHK. BY:
AR/RV	HFN

SCALE: **NTS**

DWG. #: **YKK206**

SECTION:

3.0

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HORIZONTAL SECTIONS

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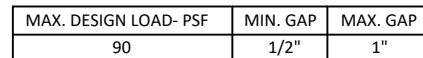
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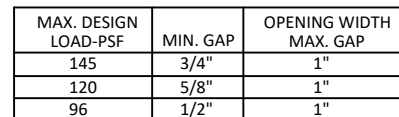
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NOTE:
JOINT AT JAMBS IS NON-STRUCTURAL AND SHALL BE SUFFICIENT TO PROVIDE PROPER WEATHERPROOFING. SEALANT JOINT SIZE MAY VARY IN ACCORDANCE WITH SEALANT MANUFACTURER'S GUIDELINES AND RECOMMENDATION AND SHALL BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

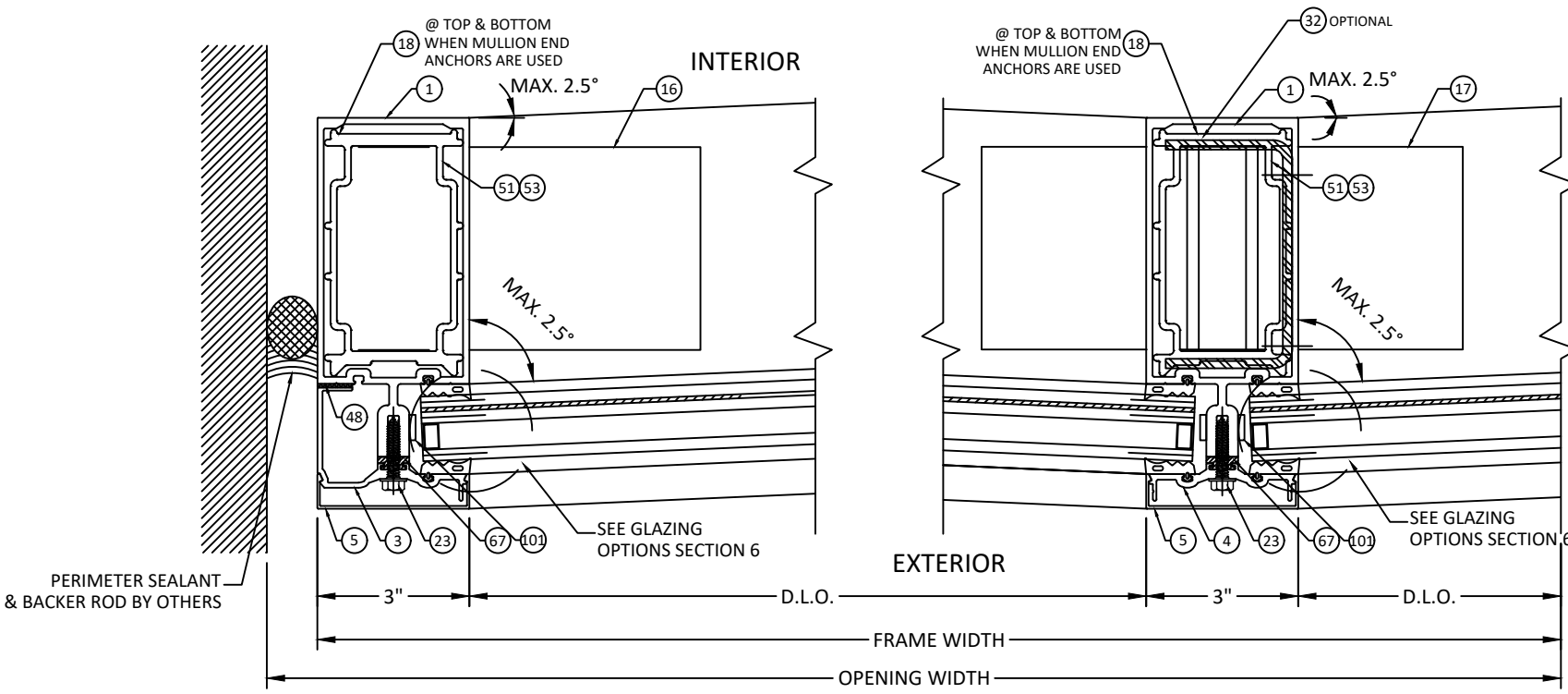
2 HORIZONTAL SECTION
4.0 STANDARD DUTY MULLION
 INSULATING GLASS



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4.0 HORIZONTAL SECTION
HEAVY DUTY MULLION
INSULATING GLASS

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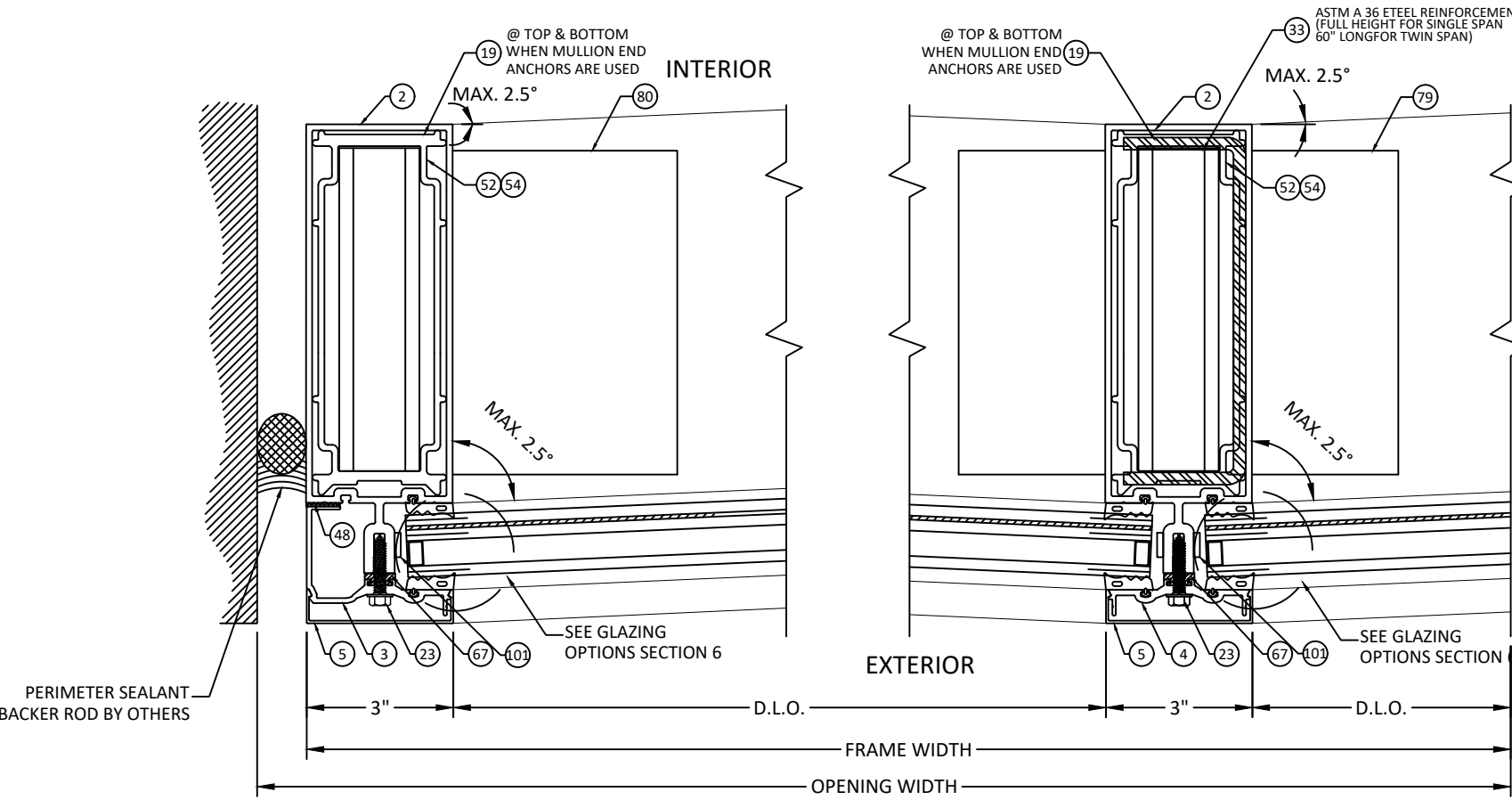


1 HORIZONTAL SECTION
4.0A STANDARD DUTY SPYLED MULLION INSULATING GLASS

2 HORIZONTAL SECTION
4.0A STANDARD DUTY SPYLED MULLION INSULATING GLASS

MAX. DESIGN LOAD- PSF	MIN. GAP	MAX. GAP
90	1/2"	1"

NOTE:
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3 HORIZONTAL SECTION
4.0A HEAVY DUTY SPYLED MULLION INSULATING GLASS

4 HORIZONTAL SECTION
4.0A HEAVY DUTY SPYLED MULLION INSULATING GLASS

MAX. DESIGN LOAD-PSF	MIN. GAP	OPENING WIDTH MAX. GAP
145	3/4"	1"
120	5/8"	1"
96	1/2"	1"

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NOTE:
DEGREE OF ANGLE ON THE GLASS CAN BE A MAX. 2.5° INWARDS OR OUTWARDS AS PER JOB SITE REQUIREMENTS.

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TITLE: **YHC - 300 OG (MISSILE E) CURTAIN WALL SYSTEM**

HORIZONTAL SECTIONS

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BUILDING DROPS

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CHK. BY:

HFN

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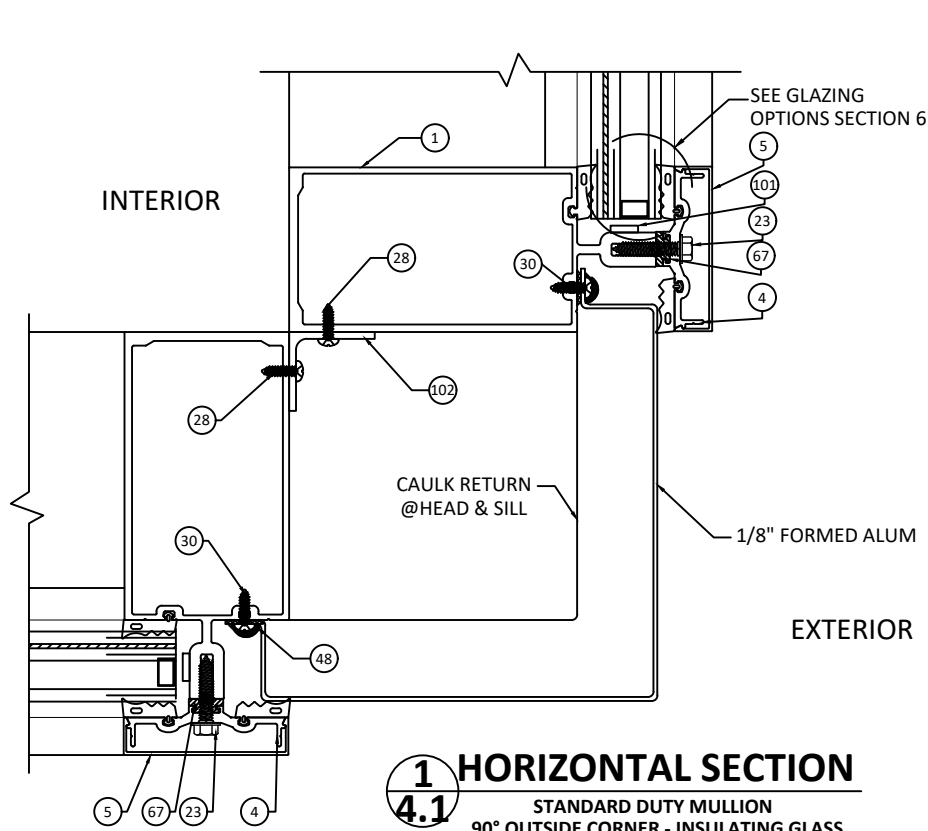
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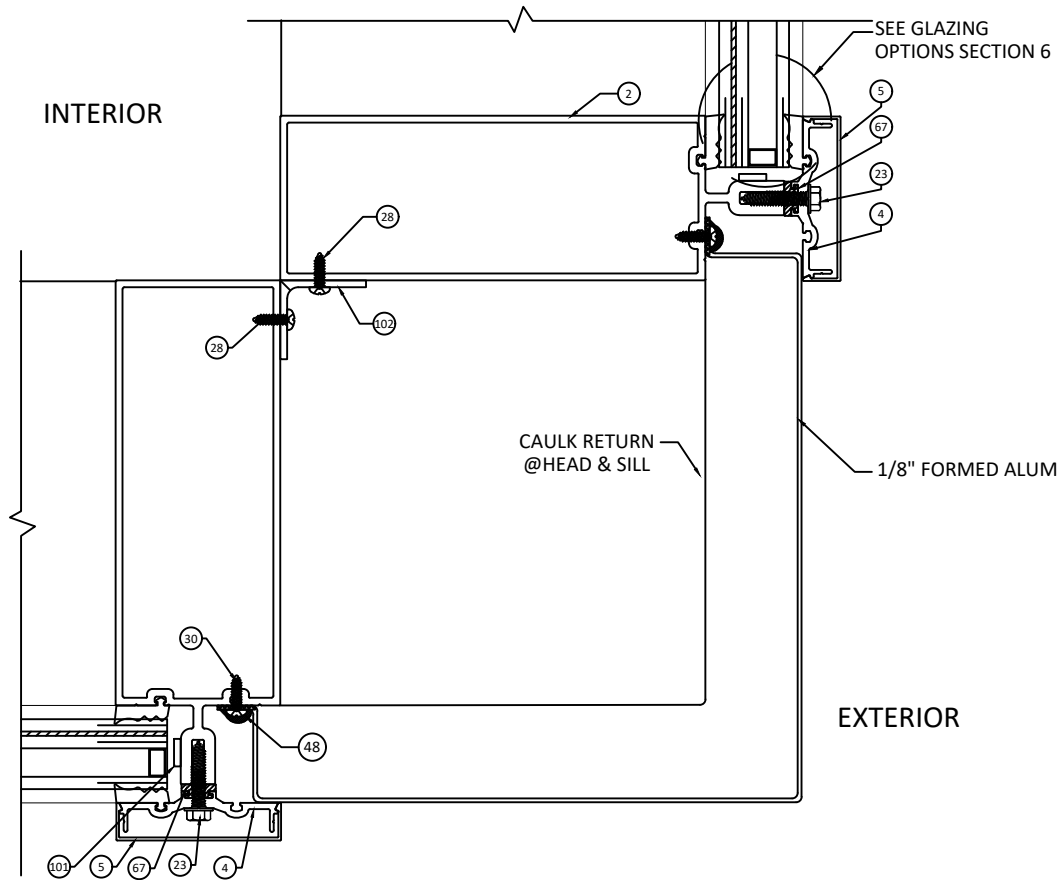
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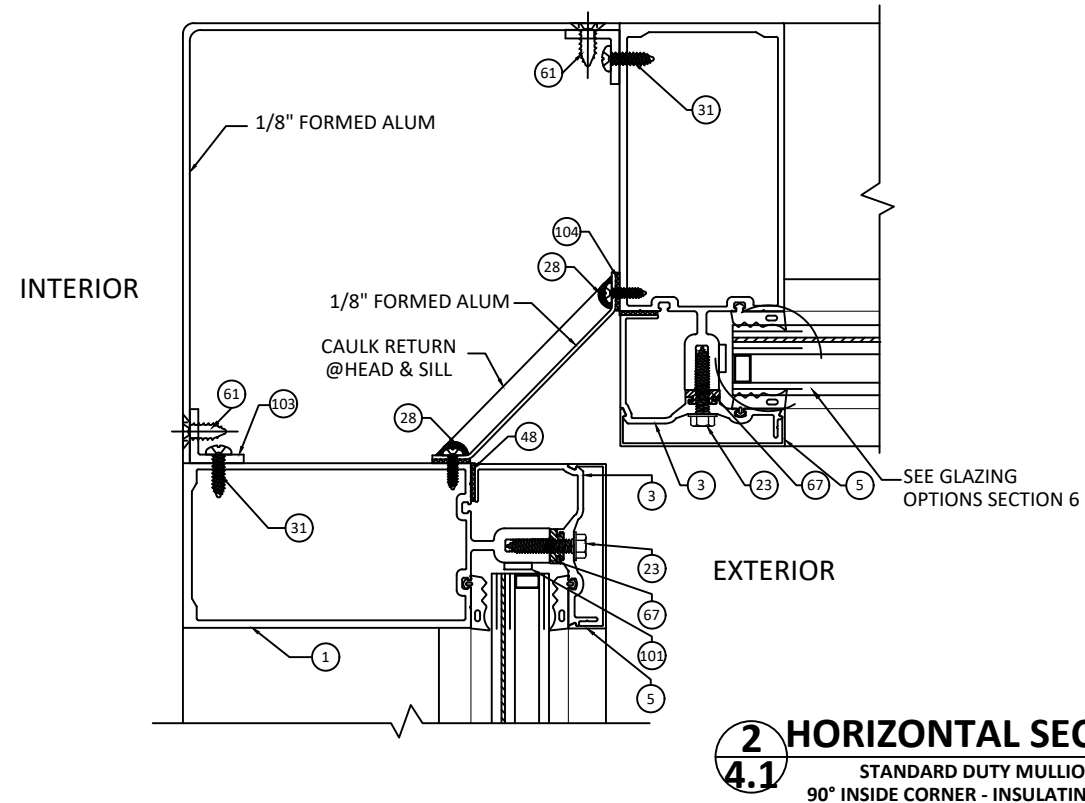
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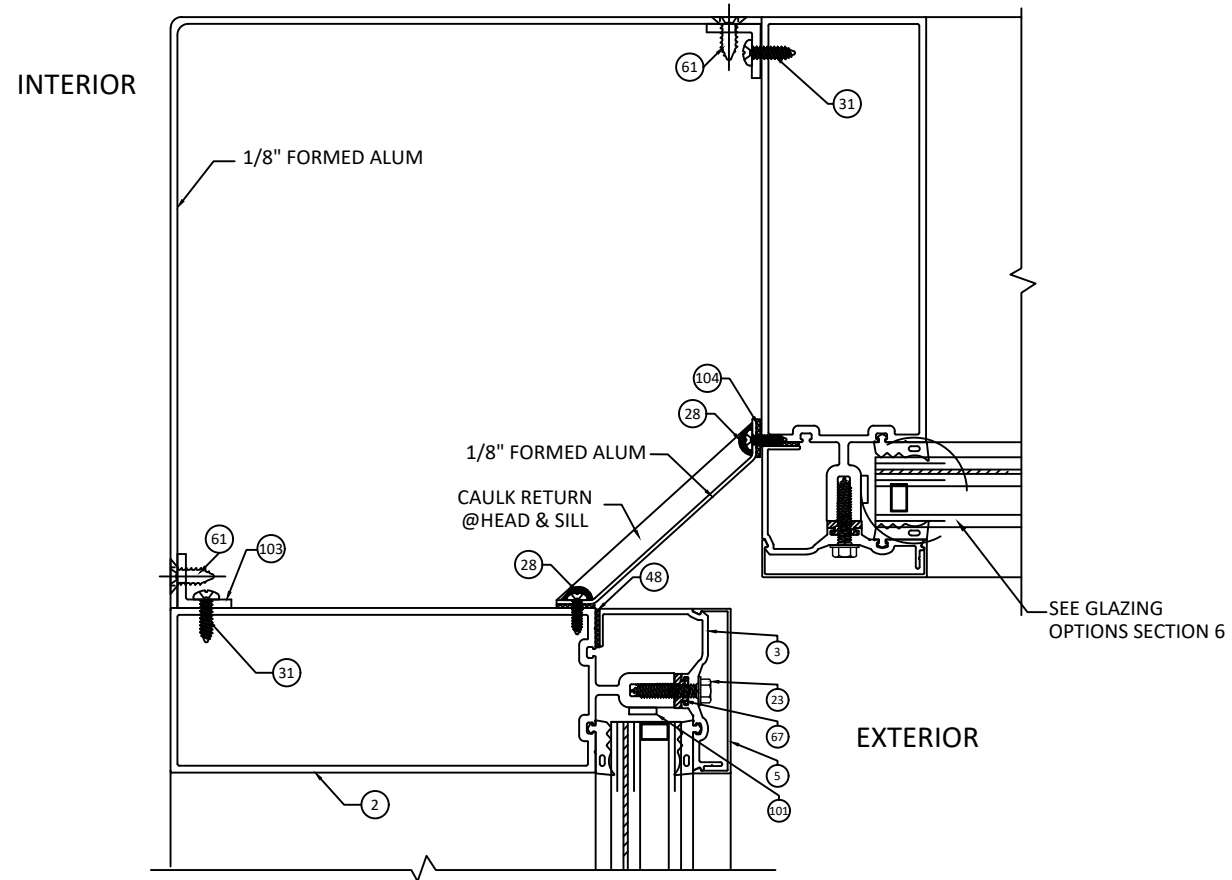
1 HORIZONTAL SECTION
4.1 STANDARD DUTY MULLION
90° OUTSIDE CORNER - INSULATING GLASS



3 HORIZONTAL SECTION
4.1 HEAVY DUTY MULLION
90° OUTSIDE CORNER - INSULATING GLASS



2 HORIZONTAL SECTION
4.1 STANDARD DUTY MULLION
90° INSIDE CORNER - INSULATING GLASS



4 HORIZONTAL SECTION
4.1 HEAVY DUTY MULLION
90° INSIDE CORNER - INSULATING GLASS



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TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM

HORIZONTAL SECTIONS

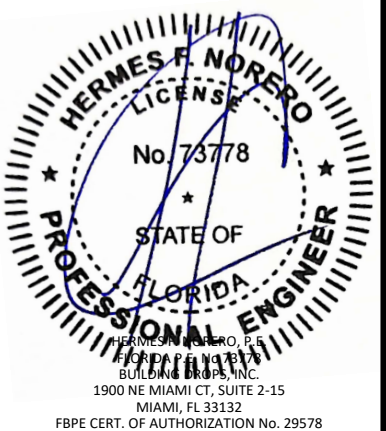
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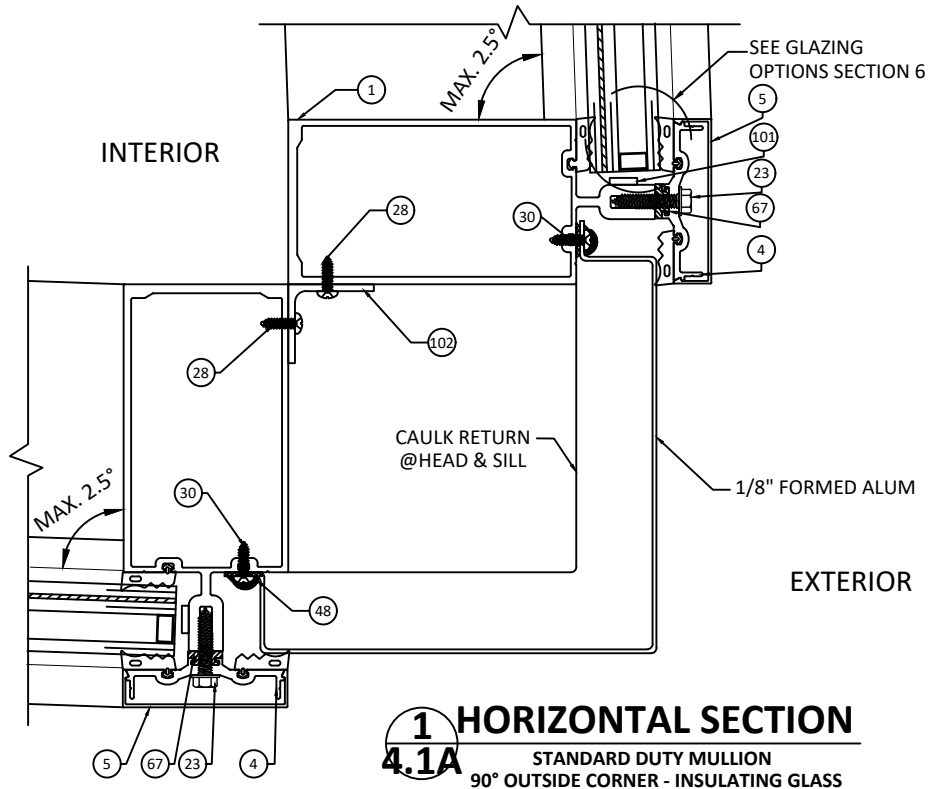
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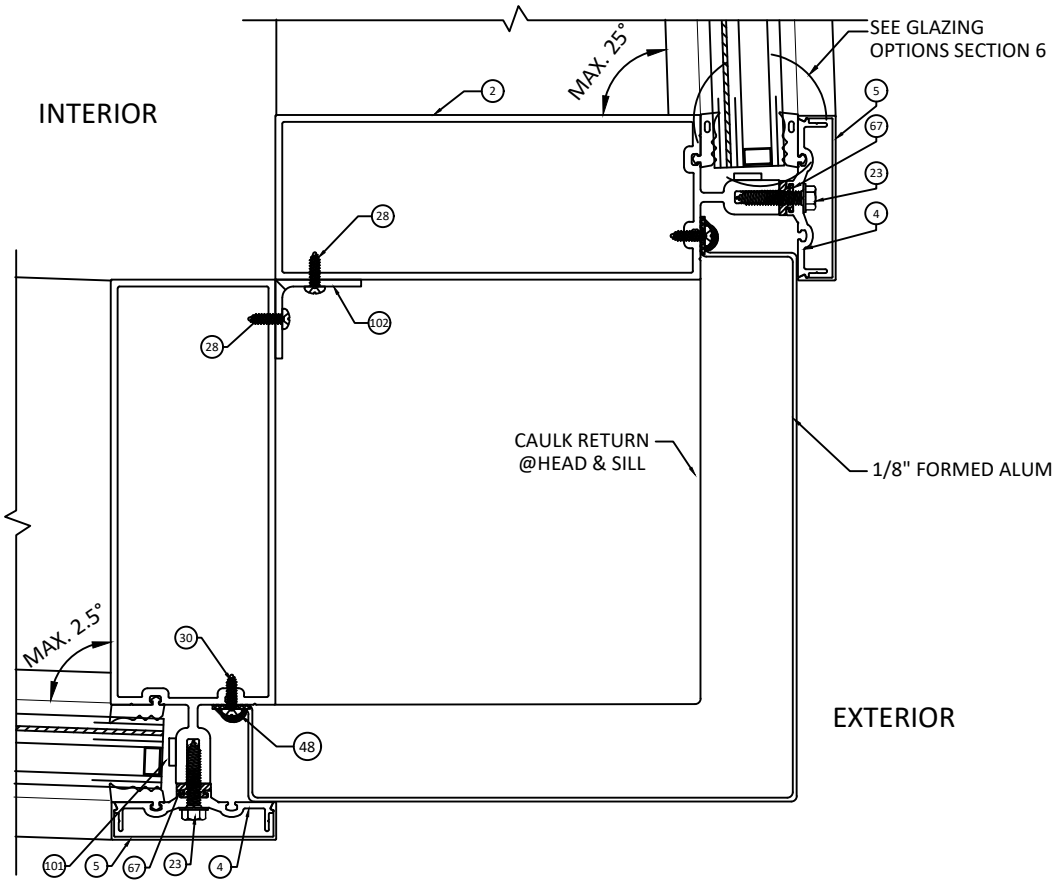
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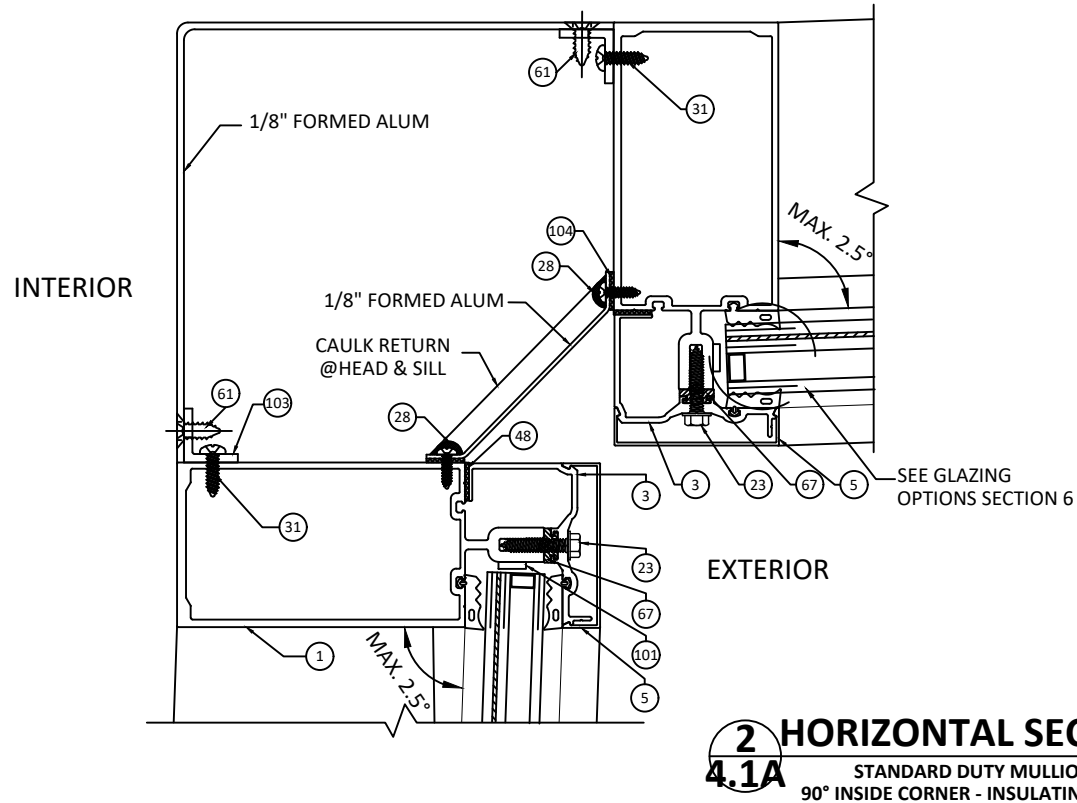
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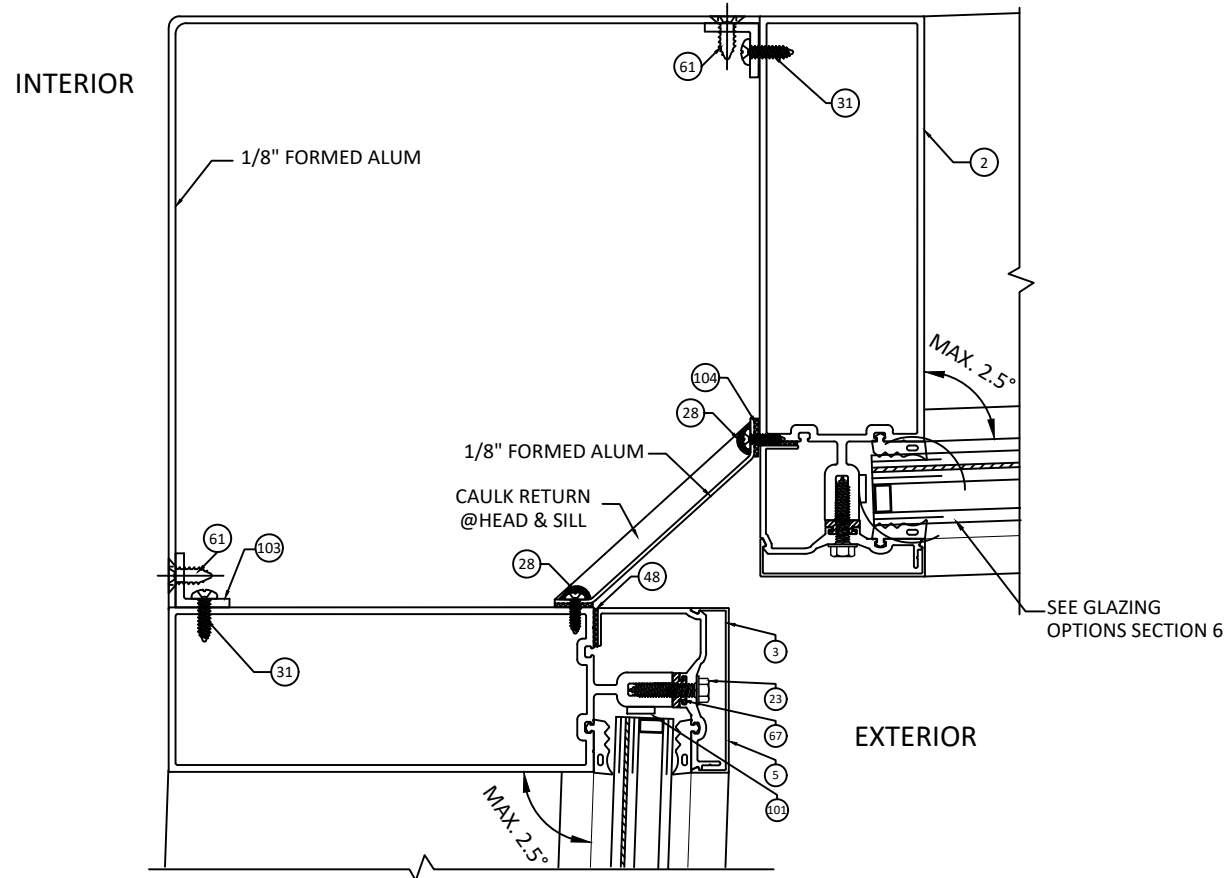
1 HORIZONTAL SECTION
4.1A STANDARD DUTY MULLION
90° OUTSIDE CORNER - INSULATING GLASS



3 HORIZONTAL SECTION
4.1A HEAVY DUTY MULLION
90° OUTSIDE CORNER - INSULATING GLASS



2 HORIZONTAL SECTION
4.1A STANDARD DUTY MULLION
90° INSIDE CORNER - INSULATING GLASS



4 HORIZONTAL SECTION
4.1A HEAVY DUTY MULLION
90° INSIDE CORNER - INSULATING GLASS

NOTE:
DEGREE OF ANGLE ON THE GLASS CAN BE A MAX.
2.5° INWARDS OR OUTWARDS AS PER JOB SITE
REQUIREMENTS.



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CURTAIN WALL SYSTEM

HORIZONTAL SECTIONS

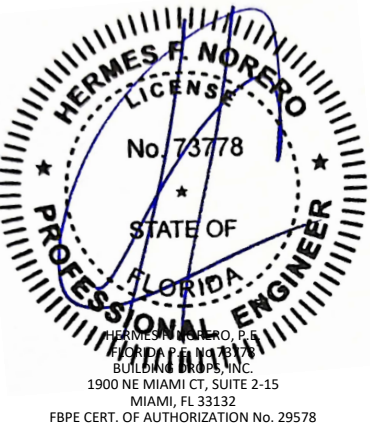
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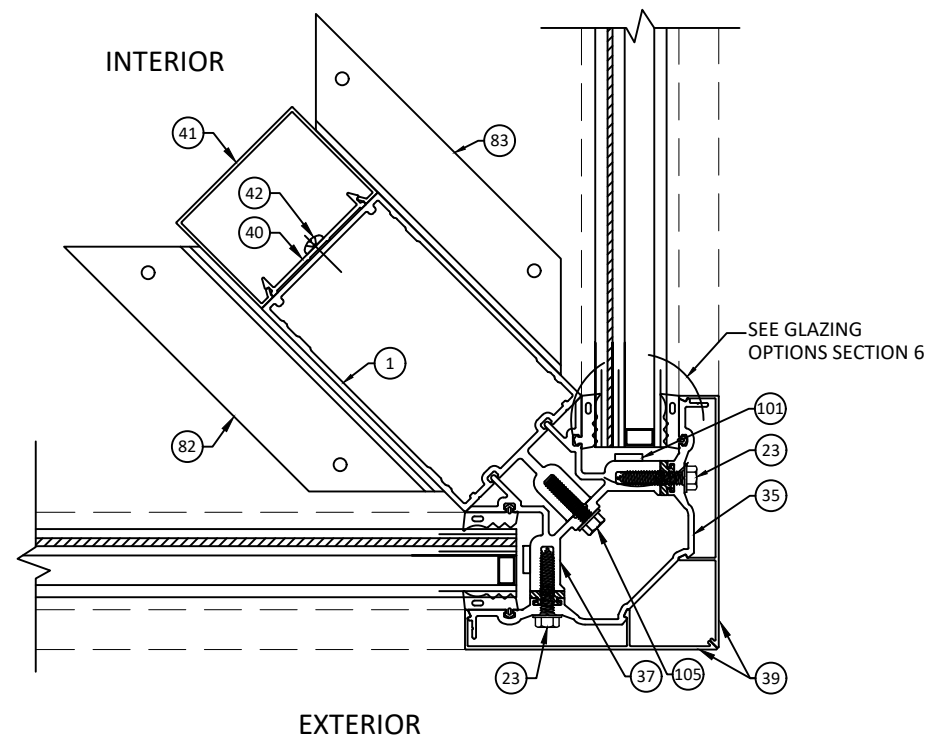
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SCALE: **NTS**

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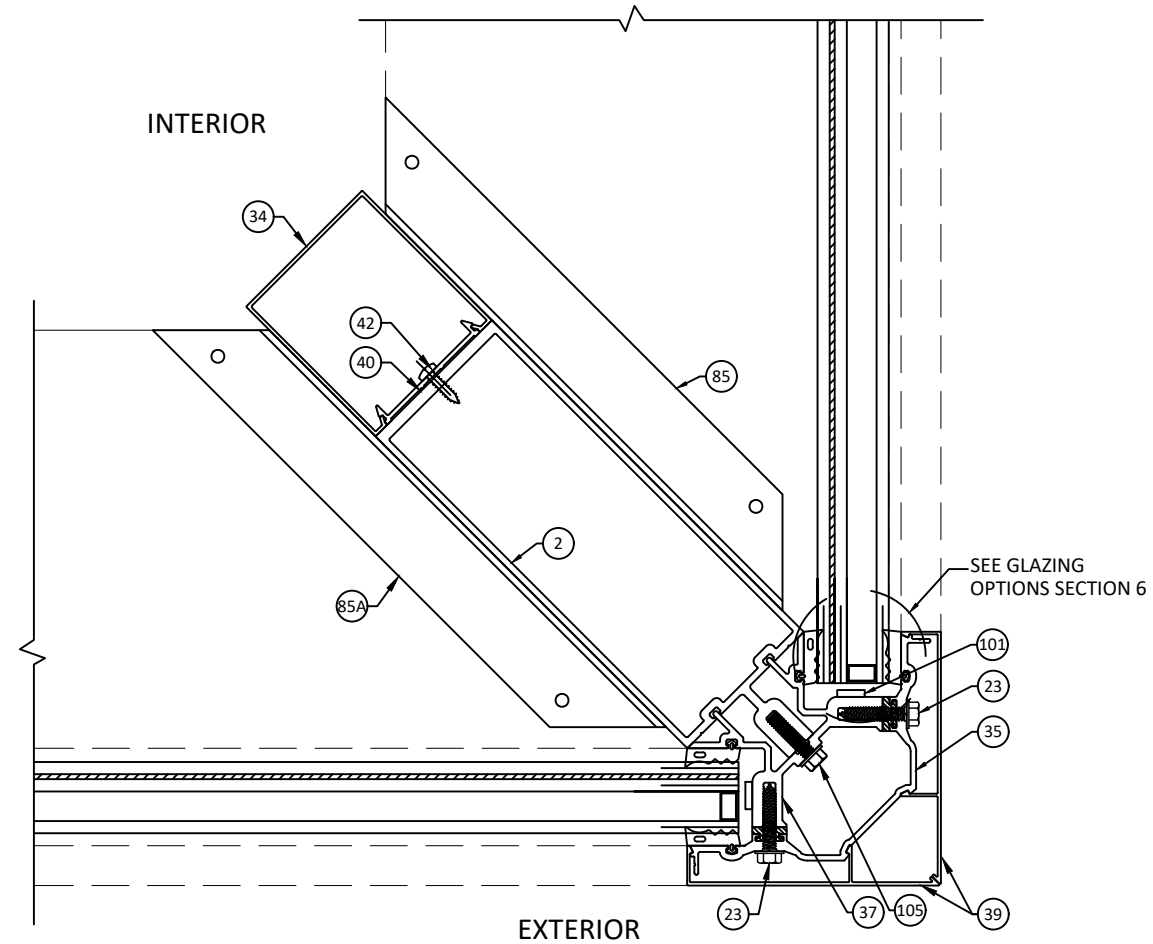
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1
4.2 **HORIZONTAL SECTION**
STANDARD DUTY MULLION
90° OUTSIDE CORNER - INSULATING GLASS

MAX DESIGN PRESSURE		
W3	SPAN	DP (+/- PSF)
48 IN.	150 IN.	90 PSF
44 IN.	150 IN.	90 PSF
60 IN.	120 IN.	90 PSF



2
4.2 **HORIZONTAL SECTION**
HEAVY DUTY MULLION
90° OUTSIDE CORNER - INSULATING GLASS



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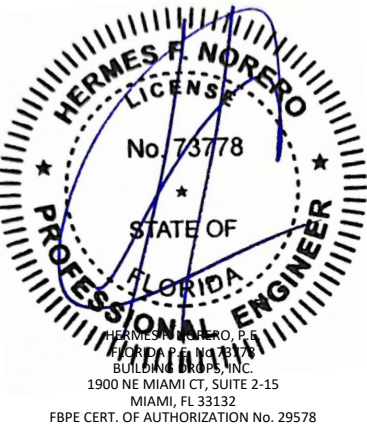
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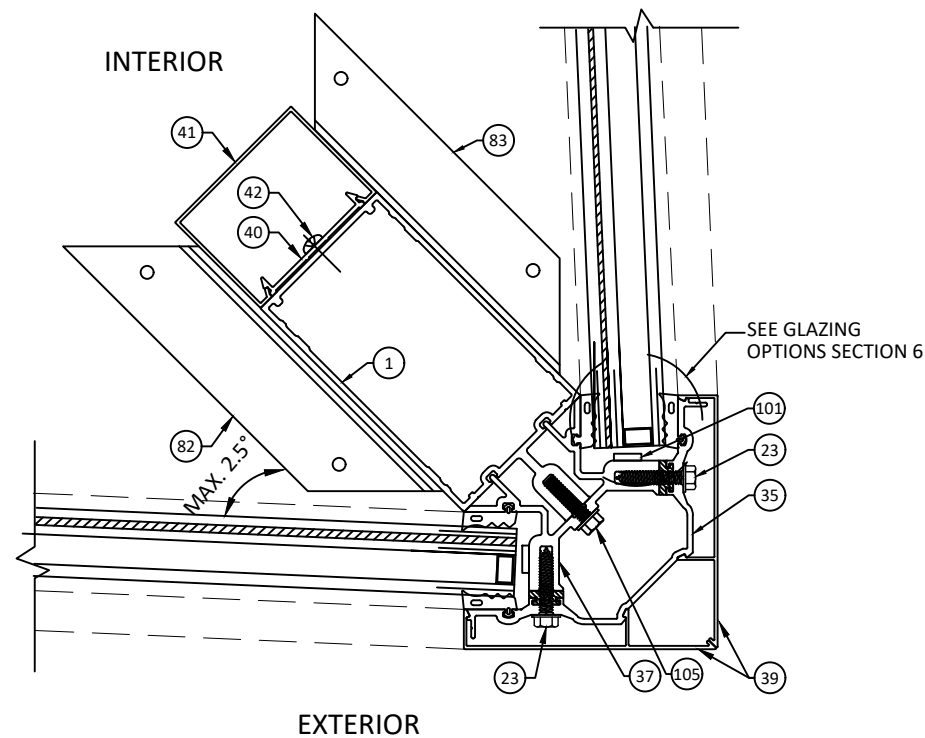
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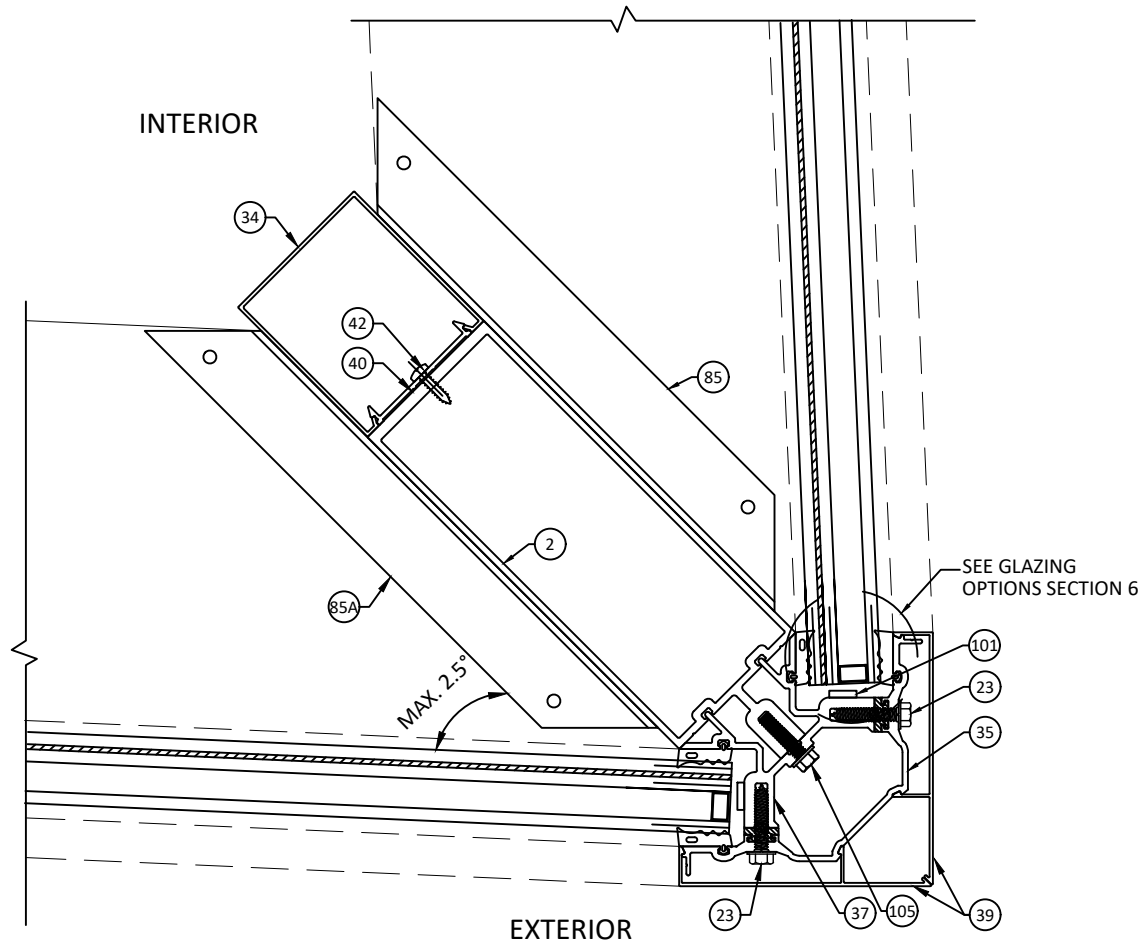
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1 HORIZONTAL SECTION
4.2A STANDARD DUTY SPLAYED MULLION
90° OUTSIDE CORNER - INSULATING GLASS

MAX DESIGN PRESSURE		
W3	SPAN	DP (+/- PSF)
48 IN.	150 IN.	90 PSF
44 IN.	150 IN.	90 PSF
60 IN.	120 IN.	90 PSF

NOTE:
DEGREE OF ANGLE ON THE GLASS CAN BE A MAX.
2.5° INWARDS OR OUTWARDS AS PER JOB SITE
REQUIREMENTS.



2 HORIZONTAL SECTION
4.2A HEAVY DUTY SPLAYED MULLION
90° OUTSIDE CORNER - INSULATING GLASS



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

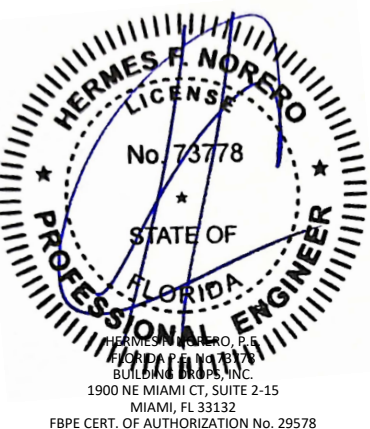
TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM
HORIZONTAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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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



FL #:
FL13433

DATE: **7.18.17**

DWG. BY: **AR/RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK206**

SECTION:
4.2A
[Page 9 of 35]

c:\users\lucianosanchez\building drops, inc\building drops\landing - documents\common\projects\ykk ap america, inc\fbcc-21-1229.1 - fbc submittal - revisions\dwgs\apc - upload\0113433\missile e\ykk 206 - fl13433.dwg: 1-6 & 9.dwg
6/2/2026 11:39 AM

STANDARD DUTY MULLIONS

JAMB/MULLION LOAD CAPACITY (+/- PSF)			JAMB/MULLION LOAD CAPACITY (+/- PSF)		
NOMINAL DIMS.		"CASE 1" M1	NOMINAL DIMS.		"CASE 1" M1
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)
36	78	90.0	36	120	90.0
42		90.0	42		90.0
48		90.0	48		90.0
54		90.0	54		90.0
60		90.0	60		90.0
66		90.0	66		90.0
72		90.0	72		90.0
36	84	90.0	36	126	90.0
42		90.0	42		90.0
48		90.0	48		90.0
54		90.0	54		90.0
60		90.0	60		90.0
66		90.0	66		90.0
72		90.0	72		90.0
36	90	90.0	36	132	90.0
42		90.0	42		90.0
48		90.0	48		90.0
54		90.0	54		90.0
60		90.0	60		90.0
66		90.0	66		90.0
72		90.0	72		90.0
36	96	90.0	36	138	90.0
42		90.0	42		90.0
48		90.0	48		90.0
54		90.0	54		90.0
60		90.0	60		90.0
66		90.0	66		90.0
72		90.0	72		90.0
36	102	90.0	72	144	88.6
42		90.0	36		90.0
48		90.0	42		90.0
54		90.0	48		90.0
60		90.0	54		90.0
66		90.0	60		90.0
72		90.0	66		88.8
36	108	90.0	72	150	81.4
42		90.0	36		90.0
48		90.0	42		90.0
54		90.0	48		90.0
60		90.0	54		90.0
66		90.0	60		90.0
72		90.0	66		81.8
36	114	90.0	72	150	75.0
42		90.0			
48		90.0			
54		90.0			
60		90.0			
66		90.0			
72		90.0			

STANDARD DUTY HORIZONTAL
MULLION (+/- PSF)

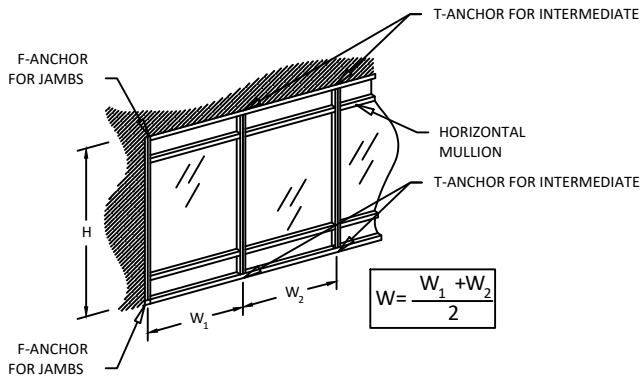
MAX. WIDTH, W (IN.) SPAN	EXT. (+) INT. (-)
72	90

MULLION CAPACITY CHARTS

NOTES

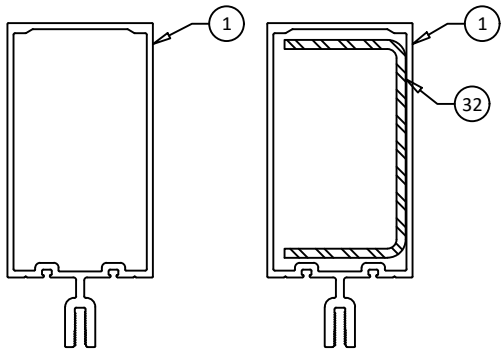
1. DESIGN PRESSURES ARE LIMITED BY THE MULLION FIBERSTRESS AND DEFLECTION CAPACITY PER CURRENT FBC SPECIFICATIONS FOR HVHZ
2. SELECT DESIGN PRESSURE AND PANEL WIDTH (W) AND OBTAIN THE MAXIMUM ALLOWABLE DESIGN PRESSURE FOR MULLION.
3. FOR HORIZONTAL MULLIONS CAPACITY, SEE HORIZONTAL MULLION CHART.
4. WHEN PANEL WIDTHS ARE NOT EQUAL, USE THE AVERAGE WIDTH ON THE CHART.

CASE 1: SINGLE SPAN WITH REINFORCED MULLION FULL HEIGHT
CASE 2: TWIN SPANS WITH REINFORCED MULLION AT INTERMEDIATE SUPPORT ONLY



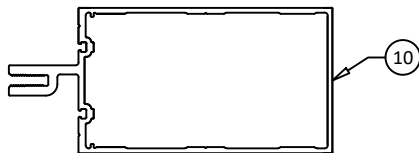
SINGLE SPAN

REINFORCING LENGTH = FRAME HEIGHT - 12 IN.

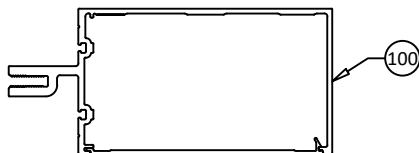


J1 ANCHOR SLEEVE JAMB MULLION

M1 REINFORCED STANDARD DUTY MULLION



H1 STANDARD DUTY HORIZONTAL



H2 STANDARD DUTY HORIZONTAL

HEAVY DUTY MULLIONS

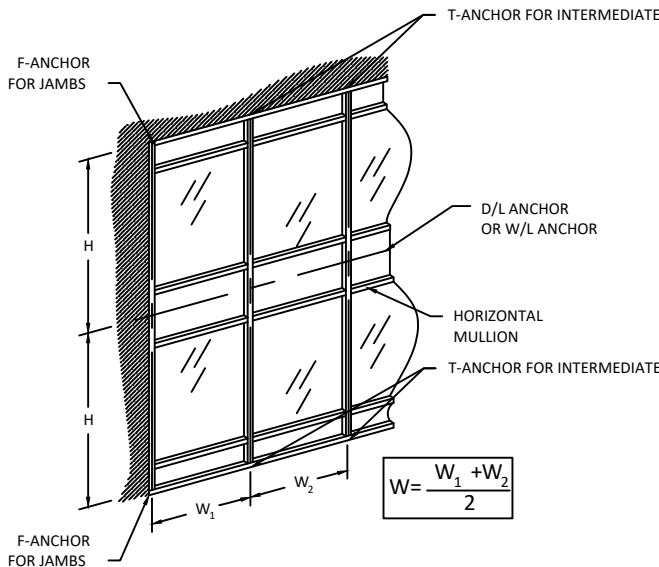
JAMB/MULLION LOAD CAPACITY (+/- PSF)		
NOMINAL DIMS.		"CASE 2" M2
WIDTH 'W' (IN.)	SPAN HEIGHT 'H' (IN.)	EXT. (+) INT. (-)
36	144	90
42		90
48		90
54		90
60		90
66		90
72		90
36	150	90
42		90
48		90
54		90
60		90
66		90
72		90
36	156	90
42		90
48		90
54		90
60		90
66		90
72		90
36	162	90
42		90
48		90
54		90
60		90
66		90
72		90

HEAVY DUTY HORIZONTAL MULLION (+/- PSF)

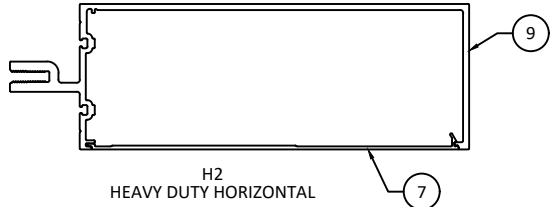
MAX. WIDTH, W (IN.) SPAN	EXT. (+) INT. (-)
72	90

* NOTE:

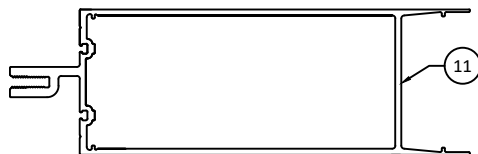
1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS) AND CHAPTER 17 OF THE CURRENT FBC FOR SIZES OTHER THAN TESTED.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
4. D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.



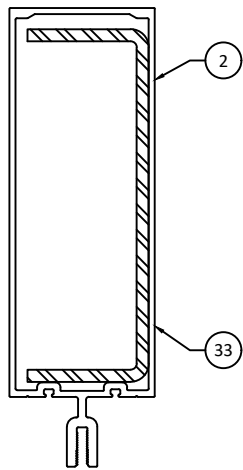
TWIN SPAN



H2 HEAVY DUTY HORIZONTAL



H3 HEAVY DUTY HORIZONTAL



M2 REINFORCED HEAVY DUTY MULLION

5' @ WL/DL ANCHOR



YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021

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

TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM

MULLION CAPACITY CHART

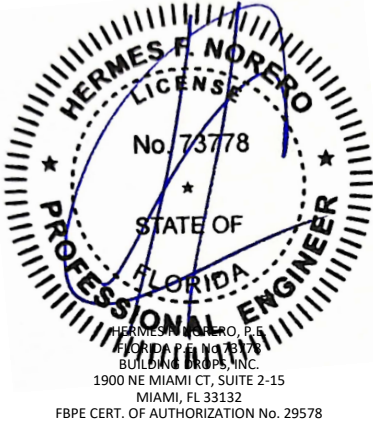
PREPARED BY: BUILDING DROPS, INC.

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REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #: FL13433

DATE: 7.18.17

DWG. BY: AR/RV
CHK. BY: HFN

SCALE: NTS

DWG. #: YKK206

SECTION:

4.3

SEE SEPARATE APPROVAL FOR YKK AP DOORS

Technical drawing of a door cross-section. The drawing shows the internal structure of the door, including the frame, hinges, and locking mechanism. Callouts include: 62 (top hinge), 81 (bottom hinge), 2 (top frame), 24 (locking bolt), 48 (locking mechanism), 67 (locking cylinder), 101 (bottom hinge), 23 (locking bolt), 3 (locking mechanism), 5 (locking mechanism), and 6 (locking mechanism). Text annotations include: "SEE SEPARATE APPROVAL FOR YKK AP DOORS" and "SEE GLAZING OPTIONS SECTION 6". A note on the right side reads: "ANCHOR TYPE SEE NOTE BELOW".

SEE SEPARATE APPROVAL FOR
YKK AP DOORS

4

5.0

**FRAME MULLION / DOOR JAMB
STANDARD DUTY / INSULATING GLASS**

1, 24, 48, 63, 65, 67, 73, 74

DOOR JAMB MULLION CAPACITY

DOOR JAMB MULLION CAPACITY

98-1/2" MAX.

ANCHOR TYPE 'S'
SEE NOTE BELOW

A

DOOR WIDTH

**NOTE: FOR DOOR HEIGHT
LESS THAN 98-1/2" IN.
USE ABOVE TABLE.**

6 5.0 **DOOR DETAIL** FRAME MULLION / DOOR JAMB HEAVY DUTY / INSULATING GLASS



BID

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERAL IN NATURE AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC PROJECT OR SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



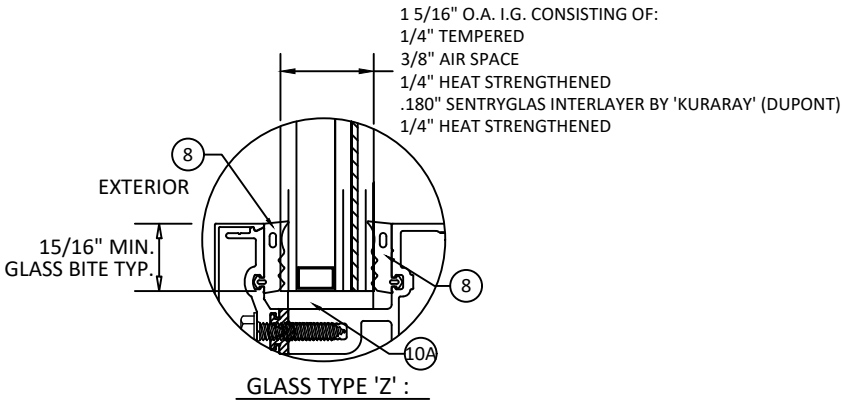
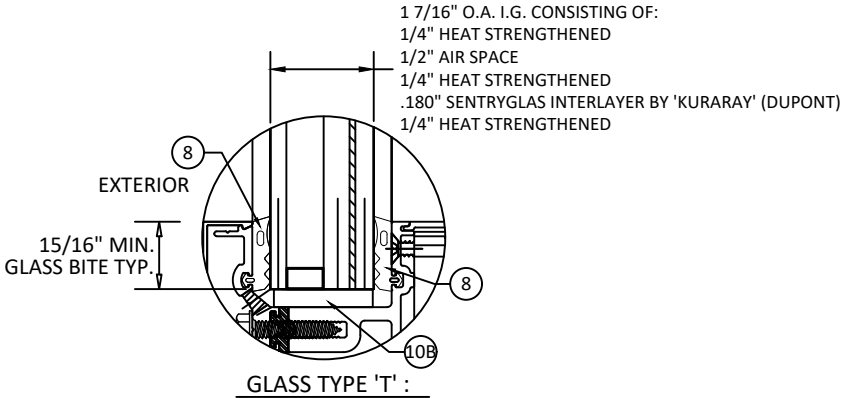
INSULATING MISSILE LEVEL E IMPACT GLASS OPTION

NOTES:

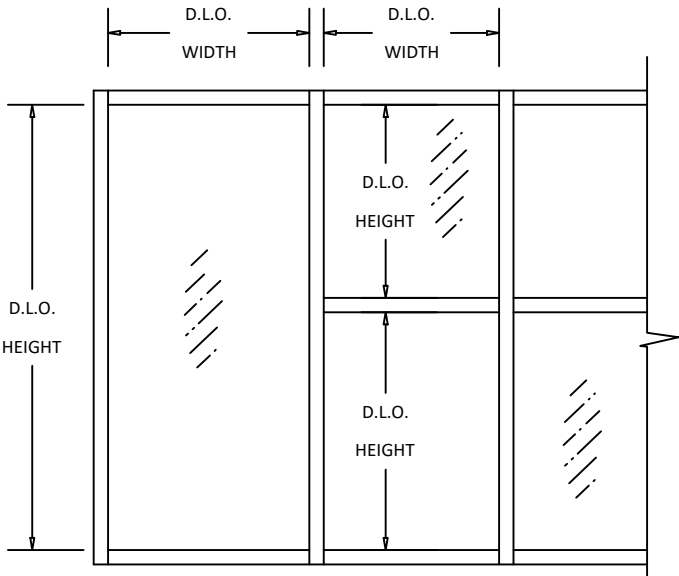
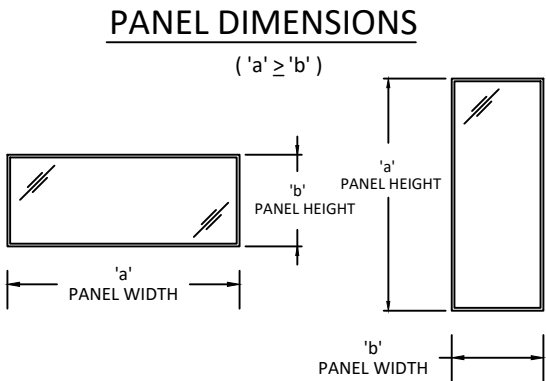
1. CHART VALUES PROVIDE MAXIMUM DESIGN PRESSURES ACCORDING TO ASTM E1300 FOR GIVEN GLASS DIMENSIONS 'a' AND 'b' (a > b), AND CH. 17 OF THE FBC FOR SIZES OTHER THAN TESTED
2. DO NOT EXCEED MULLION CAPACITY SELECTED OR ANCHOR CAPACITY IN DESIGN PRESSURE CHARTS
3. ALLOW FOR SPLAY OF 2.5° AT EACH SIDE FOR A TOTAL SPLAY OF 5° AT ALL GLASS LOCATIONS.

GLASS LOAD CAPACITY (PSF)					
NOMINAL DIMS.		GLASS TYPE 'T'		GLASS TYPE 'Z'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	60	90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	90.0	90.0
54		90.0	105.0	90.0	90.0
60		85.5	99.8	85.5	85.5
66	66	85.5	99.8	85.5	85.5
72		85.5	99.8	85.5	85.5
24		90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	90.0	90.0
54		90.0	105.0	90.0	90.0
60	72	85.5	99.8	85.5	85.5
66		77.7	90.7	77.7	77.7
72		77.7	90.7	77.7	77.7
24		90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48	78	90.0	105.0	90.0	90.0
54		90.0	105.0	90.0	90.0
60		85.5	99.8	85.5	85.5
66		77.7	90.7	77.7	77.7
72		71.3	83.1	71.3	71.3
24	84	90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	90.0	90.0
54		90.0	105.0	90.0	90.0
60		85.5	99.8	85.5	85.5
66	84	77.7	90.7	-	-
72		71.3	83.1	-	-

GLASS LOAD CAPACITY (PSF)					
NOMINAL DIMS.		GLASS TYPE 'T'		GLASS TYPE 'Z'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	90	90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	90.0	90.0
54		90.0	105.0	90.0	90.0
60		85.5	99.8	-	-
66	94.5	77.7	90.7	-	-
72		71.3	83.1	-	-
24		90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	90.0	90.0
54	102	90.0	105.0	90.0	90.0
60		85.5	99.8	-	-
66		77.7	90.7	-	-
24		90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48	108	90.0	105.0	90.0	90.0
54		90.0	105.0	-	-
60		85.5	99.8	-	-
24		90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48	114	90.0	105.0	90.0	90.0
54		90.0	105.0	-	-
60		90.0	105.0	-	-
24		90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48	117	90.0	105.0	90.0	90.0
54		90.0	105.0	90.0	90.0
60		90.0	105.0	90.0	90.0
24		90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48	117	90.0	105.0	-	-
54		90.0	105.0	-	-
57	117	90.0	105.0	-	-
		90.0	105.0	-	-



D.L.O. WIDTH = PANEL WIDTH - 3"
D.L.O. HEIGHT = PANEL HEIGHT - 6"



- 3/8" & 1/2" AIR SPACE CONSISTING OF:
- SPACER: ALUMINUM BOX SPACER
 - PRIMARY SEALANT: POLYISOBUTYLENE (PIB)
 - SECONDARY SEALANT: STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATING GLASS UNITS

- * NOTE:
- GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS) AND CHAPTER 17 OF THE CURRENT FBC FOR SIZES OTHER THAN TESTED.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
 - APPROVED SETTING BLOCKS SHAL BE USED AND TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
 - WHERE REQUIRED, TEMPERED GLASS IS REQUIRED TO BE USED TO COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CHAPTER 24 OF THE CURRENT FBC.
 - D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.

YKK
ap

Quality
inspires™

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

TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM
GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

BD
BUILDING DROPS

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL13433

DATE:
7.18.17

DWG. BY:
AR/RV

CHK. BY:
HFN

SCALE:
NTS

DWG. #:
YKK206

SECTION:
6.0

[Page 12 of 35]

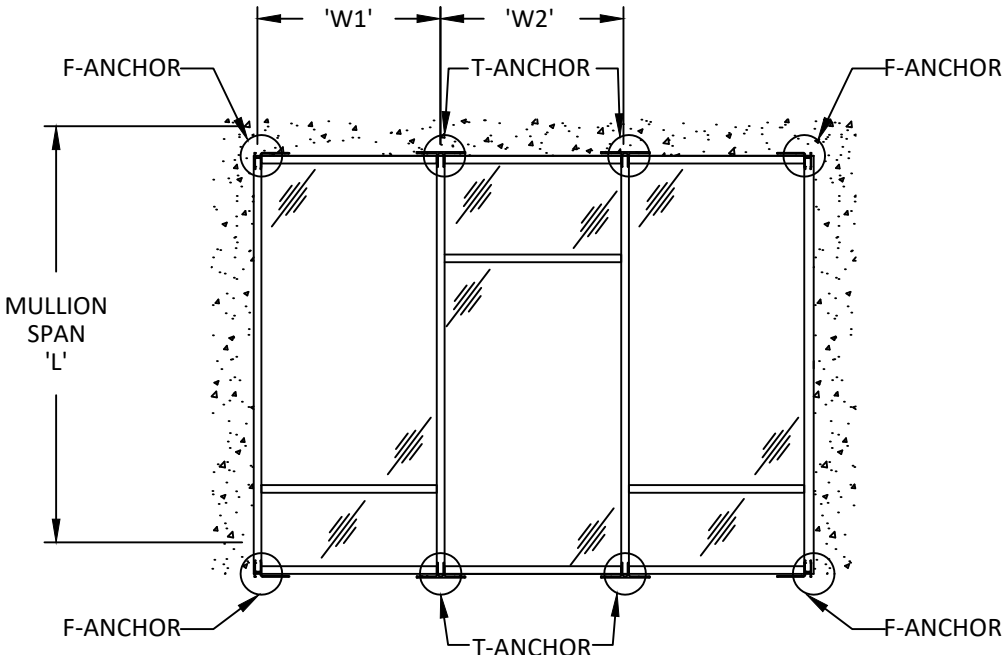
F, T & S ANCHOR TYPES

TYPE	DIAMETER	ANCHOR TYPE	SUBSTRATE	MINIMUM EDGE DISTANCE	MINIMUM EMBEDMENT
A	1/2"	HILTI KWIK BOLT TZ	MIN. 3000 PSI CONCRETE 'UNCRACKED'	3 1/4"	3 5/8"
			MIN. 3000 PSI CONCRETE 'CRACKED OR UNCRACKED'	4 1/2"	
			MIN. 4000 PSI CONCRETE 'UNCRACKED'	3 1/4"	
			MIN. 4000 PSI CONCRETE 'CRACKED OR UNCRACKED'	3 3/4"	
B	1/2"	HILTI HAS + HIT HY200 ADHESIVE ANCHOR	MIN. 4000 PSI CONCRETE 'CRACKED OR UNCRACKED'	5"	5"
C	1/2"	DEWALT SCREW-BOLT+	MIN. 3000 PSI CONCRETE 'UNCRACKED'	5"	4 1/4"
			MIN. 3000 PSI CONCRETE 'CRACKED OR UNCRACKED'	6 3/8"	
D	1/2"	ASTM A325 OR SAE GR. 5 THREADED BOLT WITH NUT & WASHER OR DRILL & TAP, OR DEWALT TAP-FLEX GR. 5 SELF TAPPING BOLT	MIN. 1/4" THICK, A36 STEEL	3/4"	MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE OR NUT
E	1/2"	SIMPSON TITEN HD	MIN. 4000 PSI CONCRETE 'UNCRACKED'	3 5/8"	4"
F	1/2"	HILTI KWIK BOLT TZ2	MIN. 4000 PSI CONCRETE 'UNCRACKED'	4"	3 1/4"
G	1/2"	SELF-TAPPING OR THREADED BOLT, MIN. SAE GR. 5 OR ASTM A325	MIN. 3/16" THICK A36 STEEL	3/4"	- FOR SELF-TAPPING OR DRILL & TAPPED HOLES, MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE. - FOR STANDARD DRILLED HOLES, PENETRATION TO BE SUFFICIENT TO MAINTAIN FULL ENGAGEMENT WITH NUT & WASHER
H	3/8"	SIMPSON TITEN HD	MIN. 4000 PSI CONCRETE 'CRACKED OR UNCRACKED'	3 5/8"	3 1/4"
I	3/8"	HILTI KWIK BOLT TZ2	MIN. 4000 PSI CONCRETE 'UNCRACKED'	4"	2 5/16"
J	5/16"	DEWALT DRIL-FLEX OR HILTI KWIK-FLEX SELF-DRILLING	MIN. 16 GAUGE STEEL, MIN. Fy = 33KSI	3/4"	MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE
K	#14	DEWALT CRETE FLEX SS4	MIN. 3500 PSI CONCRETE 'UNCRACKED'	1 3/4"	1 3/4"
	1/4"	DEWALT ULTRAACON+	MIN. 4000 PSI CONCRETE	1 1/2"	1 3/4"
L	1/4"	HILTI KWIK-CONII+	MIN. 2000 PSI CONCRETE UNCRACKED	1 3/4"	1 3/4"
M	M12	HALFEN TEE-BOLT GR. 8.8 FOR USE WITH HT3512 & HT6112 HALFEN CAST IN CHANNELS	MIN. 4000 PSI CONCRETE 'CRACKED OR UNCRACKED'	3"	PER HALFEN'S SPECIFICATIONS HT3512 = 3 1/8" HT6112 = 6 3/8"
N	3/8"	DEWALT SCREW-BOLT+	MIN 3000 PSI CONCRETE	3 7/8"	2 1/2"
O	#14	WOOD SCREW	WOOD (MIN SG. = 0.55)	1"	1 1/4"
	1/4"	GR 5 SM SCREW			
	1/4"	DEWALT ULTAACON+			

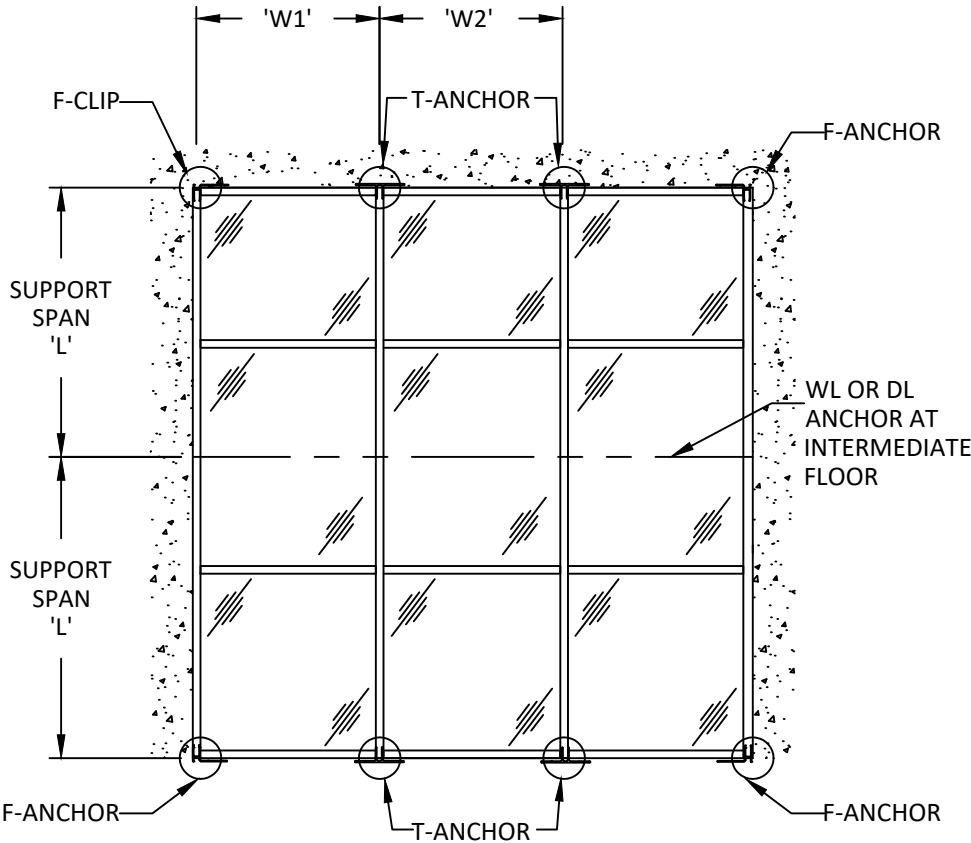
MULLION SPACING OR BAY WIDTH, 'W', FOR T-ANCHORS	$W = \frac{W1 + W2}{2}$
MULLION SPACING OR BAY WIDTH, 'W', FOR F-ANCHORS AT JAMBS	$W = W1$
MULLION SPACING OR BAY WIDTH, 'W', FOR F-ANCHORS AT VERTICAL MULL WITH DOORS	$*W = \frac{W1 + W2}{2}$

*REFER TO SECTION 2 FOR ILLUSTRATION OF DETERMINING MAX. TRIBUTARY WIDTH

- NOTE:
1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 2. REFER TO ANCHOR LAYOUTS AT RIGHT FOR LOCATIONS AND DETERMINING MAX. LENGTHS (L) AND TRIBUTARY WIDTHS (W).
 3. FOR SITE CONDITIONS NOT SHOWN IN THE DETAILS HEREIN OR EDGE DISTANCE REQUIREMENTS TO BE MODIFIED, ANCHORS MAY BE ENGINEERED ON A SITE SPECIFIC BASIS.
 4. REFER TO SECTIONS 7 & 8 FOR ANCHOR CONFIGURATIONS.
 5. REFER TO SECTION 7 FOR T, F, & S ANCHOR TYPE CAPACITIES.
 6. FOR ANCHOR TYPE 'M', FINAL SELECTION OF HALFEN CAST IN CHANNEL & T-BOLTS SHALL BE VERIFIED BY HALFEN USA IN ACCORDANCE WITH SITE SPECIFIC LOADS PRIOR TO INSTALLATION.



SINGLE SPAN ANCHOR LAYOUT



MULTI SPAN ANCHOR LAYOUT - TYP.



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

TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM

F, T & S - ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #:		FL13433	
DATE:		7.18.17	
DWG. BY:		CHK. BY:	
AR/RV		HFN	
SCALE:		NTS	
DWG. #:		YKK206	
SECTION:		7.0	
[Page 13 of 35]			

TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM

F & T - ANCHOR DETAILS

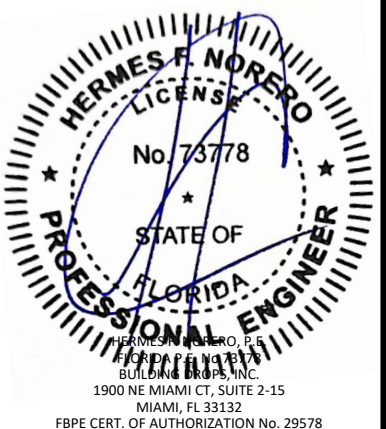
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15

MIAMI, FL 33132
PH: (954)399-8478
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FL13433

DATE: 7.18.17

DWG. BY: AR/RV	CHK. BY: HFN
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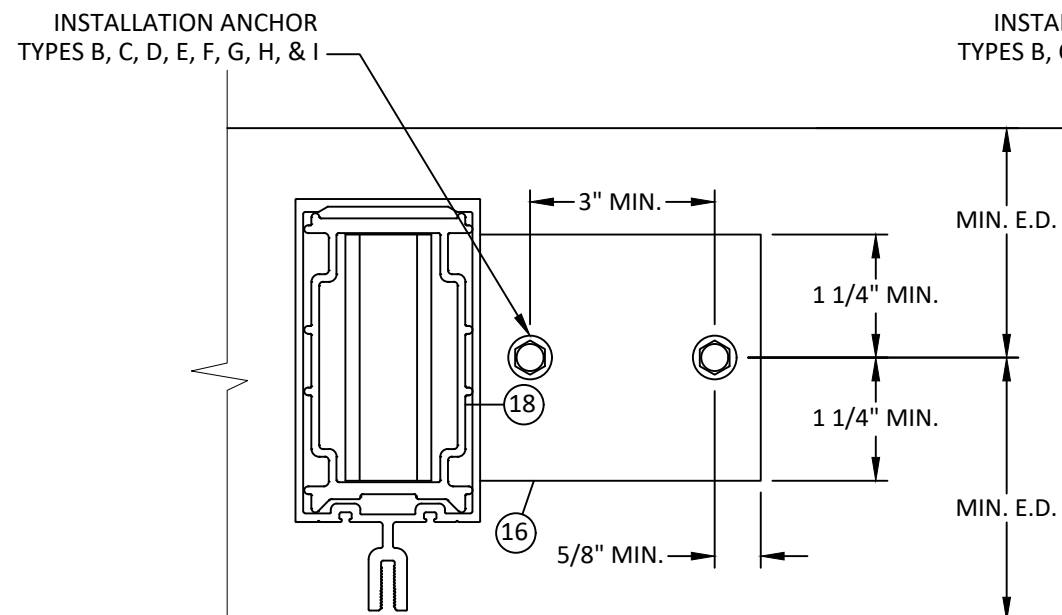
SCALE: NTS

DWG. #: YKK206

SECTION:

7.1

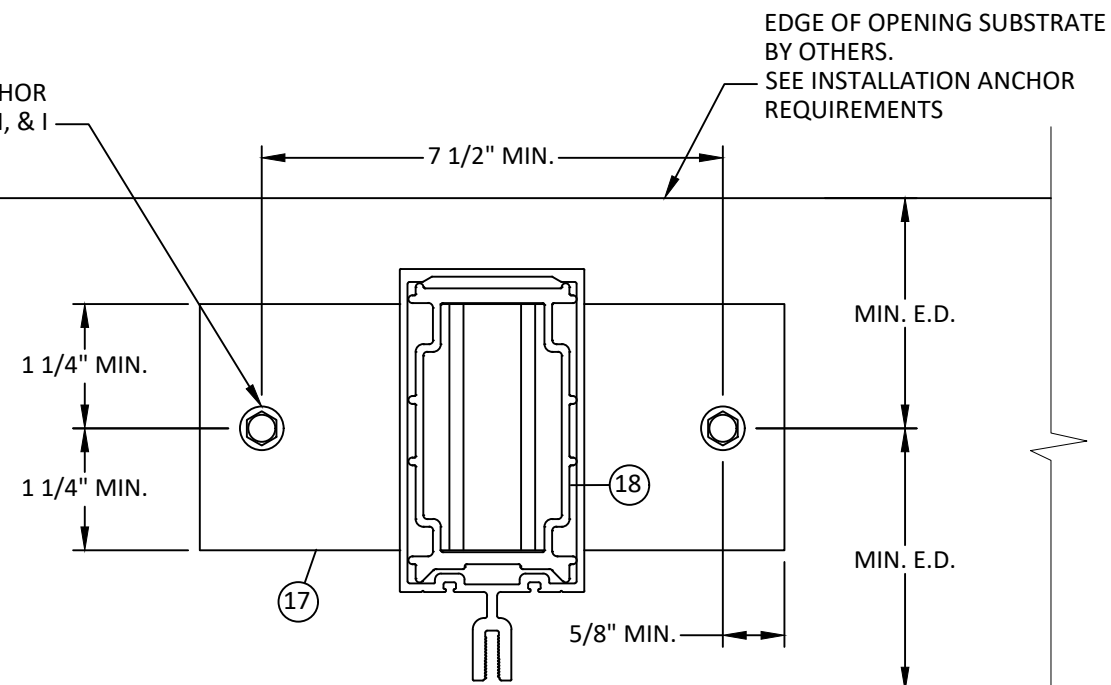
[Page 14 of 35]



1 HORIZONTAL SECTION

7.1 F-ANCHOR CONFIG 1

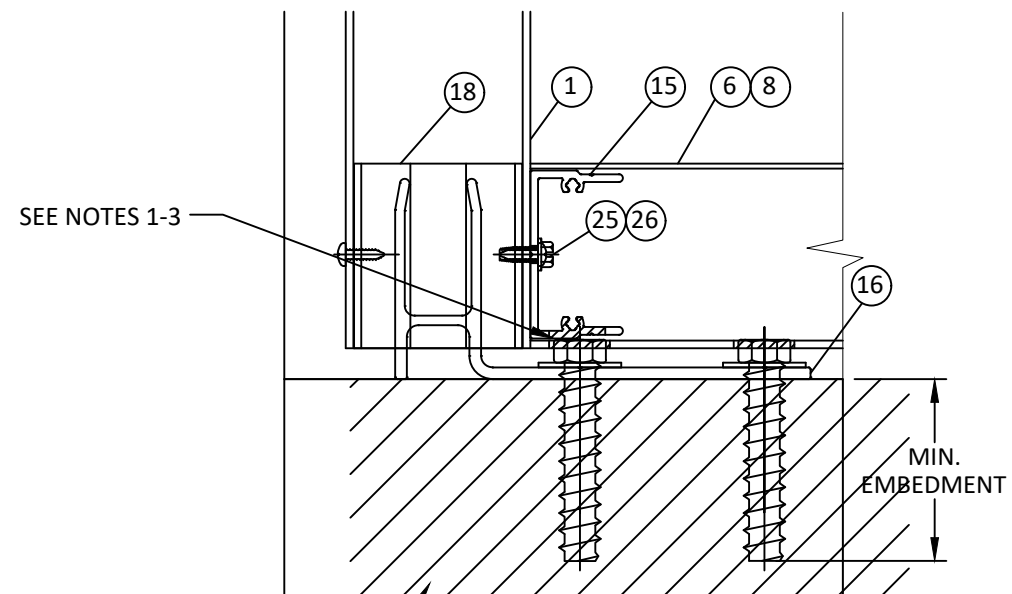
- NOTE:
1. ANCHORS SHOWN HEREIN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL ANCHOR IDENTIFICATION SHALL BE PER ANCHOR MANUFACTURERS INSTALLATION INSTRUCTIONS
 2. ANCHOR BOLT EXTENSIONS MAY BE CLIPPED TO T.O. HEX NUT AND SHEAR BLOCKS MAY BE NOTCHED TO ALLOW FOR ANCHOR CLEARANCE.
 3. REFER TO INSTALLATION ANCHOR REQUIREMENTS FOR MINIMUM EDGE DISTANCES (E.D.), EMBEDMENTS (EMBED), & PROPERTIES OF OPENING SUBSTRATE



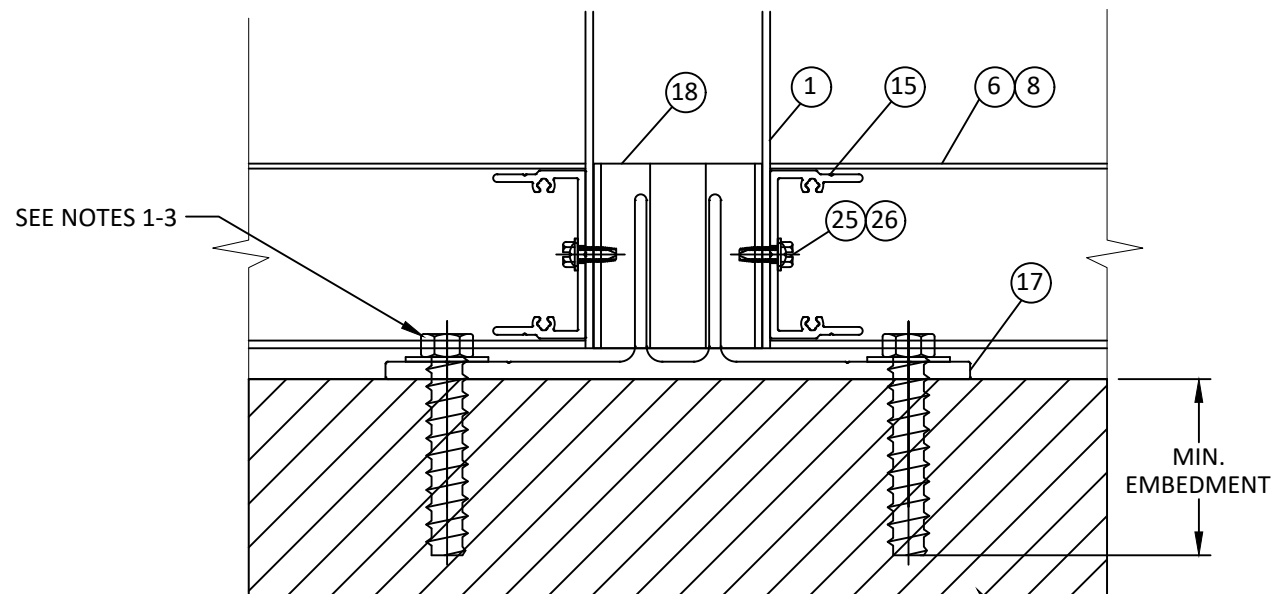
2 HORIZONTAL SECTION

7.1 T-ANCHOR CONFIG 1

- NOTE:
1. STANDARD DUTY MEMBERS SHOWN.
HEAVY DUTY MULLIONS ARE SIMILAR WITH E1-3034
(INTERMEDIATE VERTICAL MULLION) ITEM #79 &
E1-3035 (JAMB MULLION) ITEM #80 END ANCHORS.



EXTERIOR VIEW



EXTERIOR VIEW

— CONCRETE OR STEEL SUBSTRATE
BY OTHERS SEE.
INSTALLATION ANCHOR
REQUIREMENTS

TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM

F & T - ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15



REMARKS	BY	DATE
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FL #:

FL13433

DATE: 7.18.17

DWG. BY: AR/RV	CHK. BY: HFN
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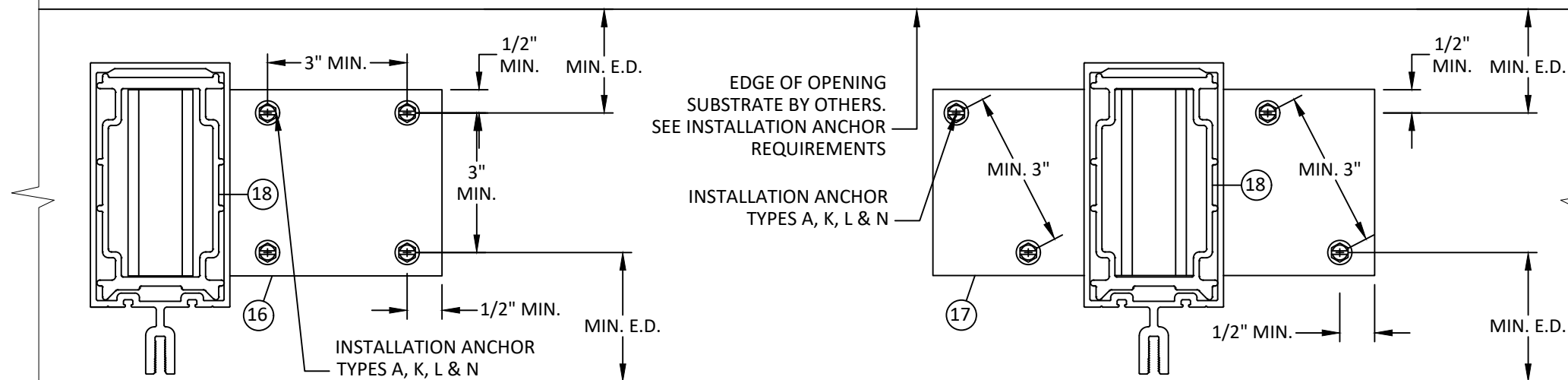
SCALE: NTS

DWG. #: YKK206

SECTION:

7.2

[Page 15 of 35]



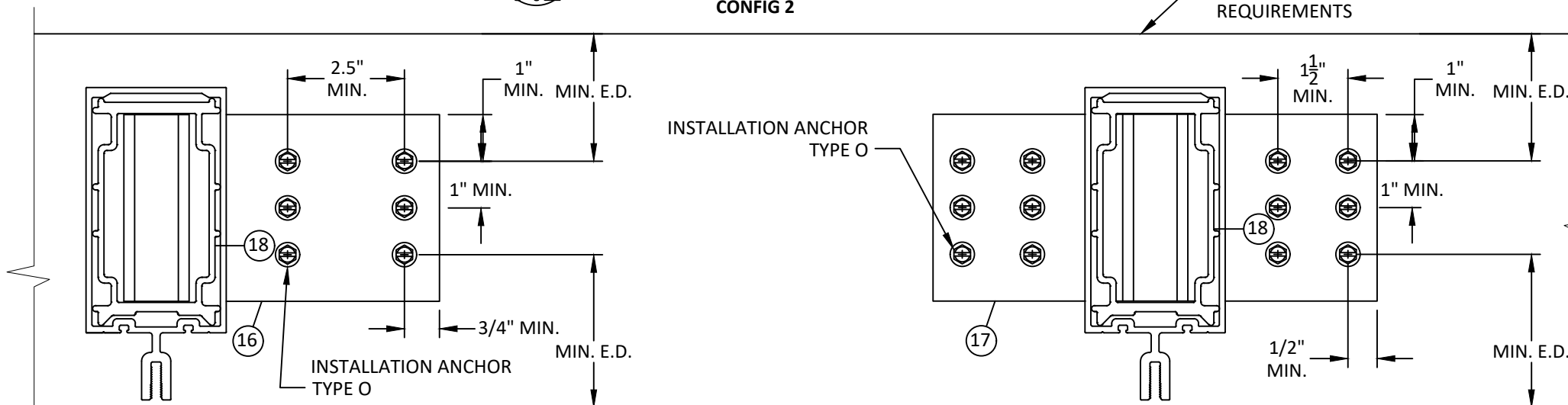
3 HORIZONTAL SECTION

4 HORIZONTAL SECTION

NOTE:

1. STANDARD DUTY MEMBERS SHOWN.
HEAVY DUTY MULLIONS ARE SIMILAR WITH
E1-3034 (INTERMEDIATE VERTICAL MULLION)
ITEM #79 & E1-3035 (JAMB MULLION) ITEM
#80 END ANCHORS.

EDGE OF OPENING SUBSTRATE
BY OTHERS.
— SEE INSTALLATION ANCHOR
REQUIREMENTS



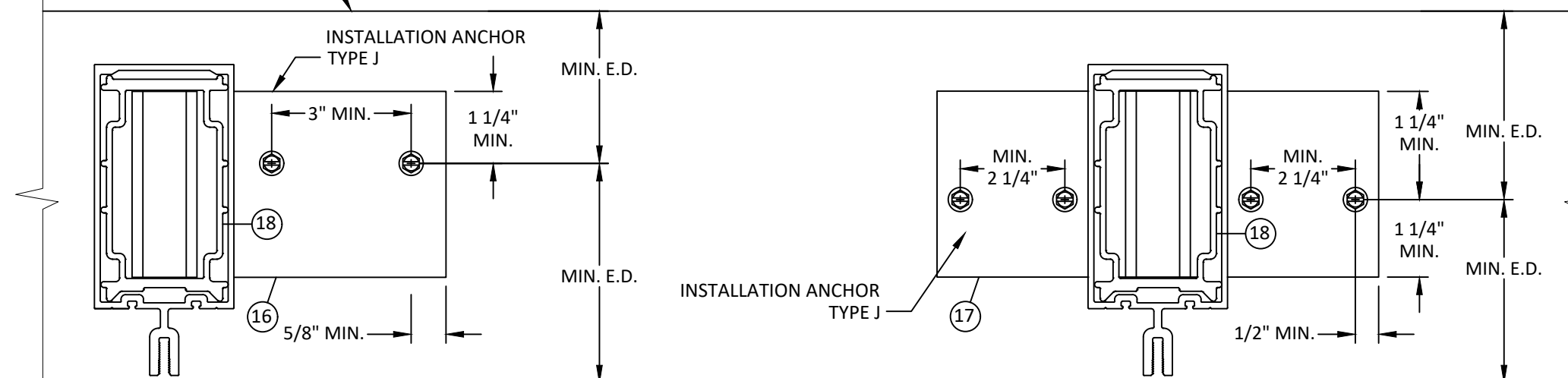
5 HORIZONTAL SECTION

7.2 F-ANCHOR CONFIG 3

6 HORIZONTAL SECTION

7.2 T-ANCHOR CONFIG 3

EDGE OF OPENING SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
| REQUIREMENTS

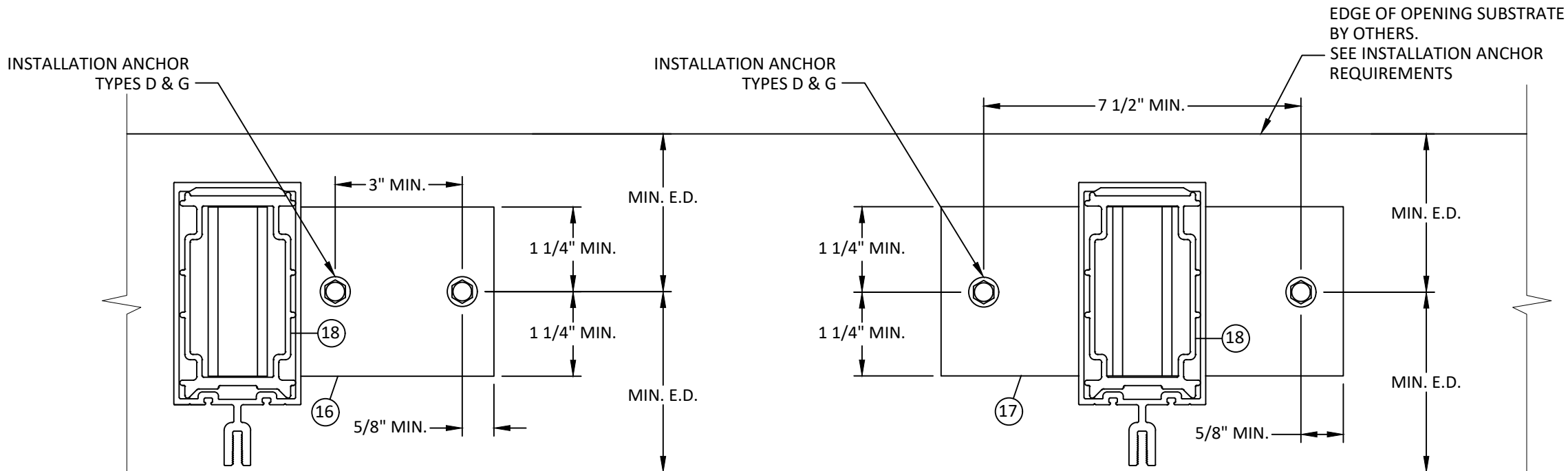


7.2 HORIZONTAL SECTION

8 HORIZONTAL SECTION

7.2 T-ANCHOR CONFIG 7

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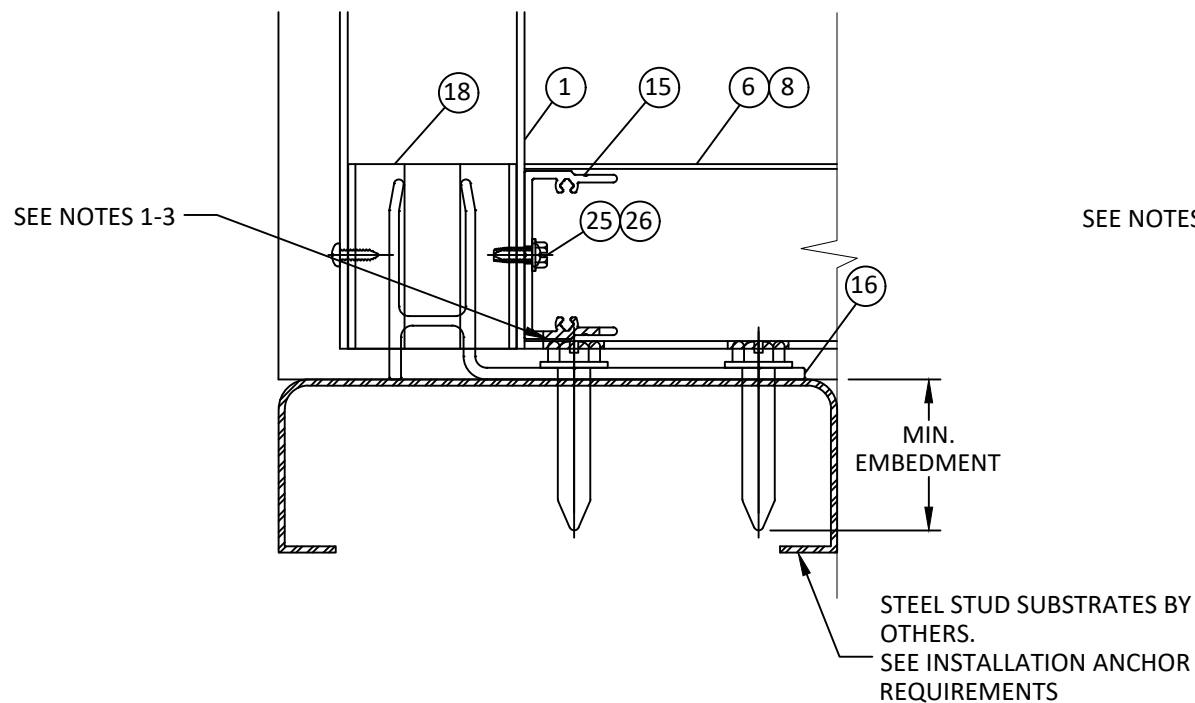


11 HORIZONTAL SECTION
7.4 F-ANCHOR CONFIG 1

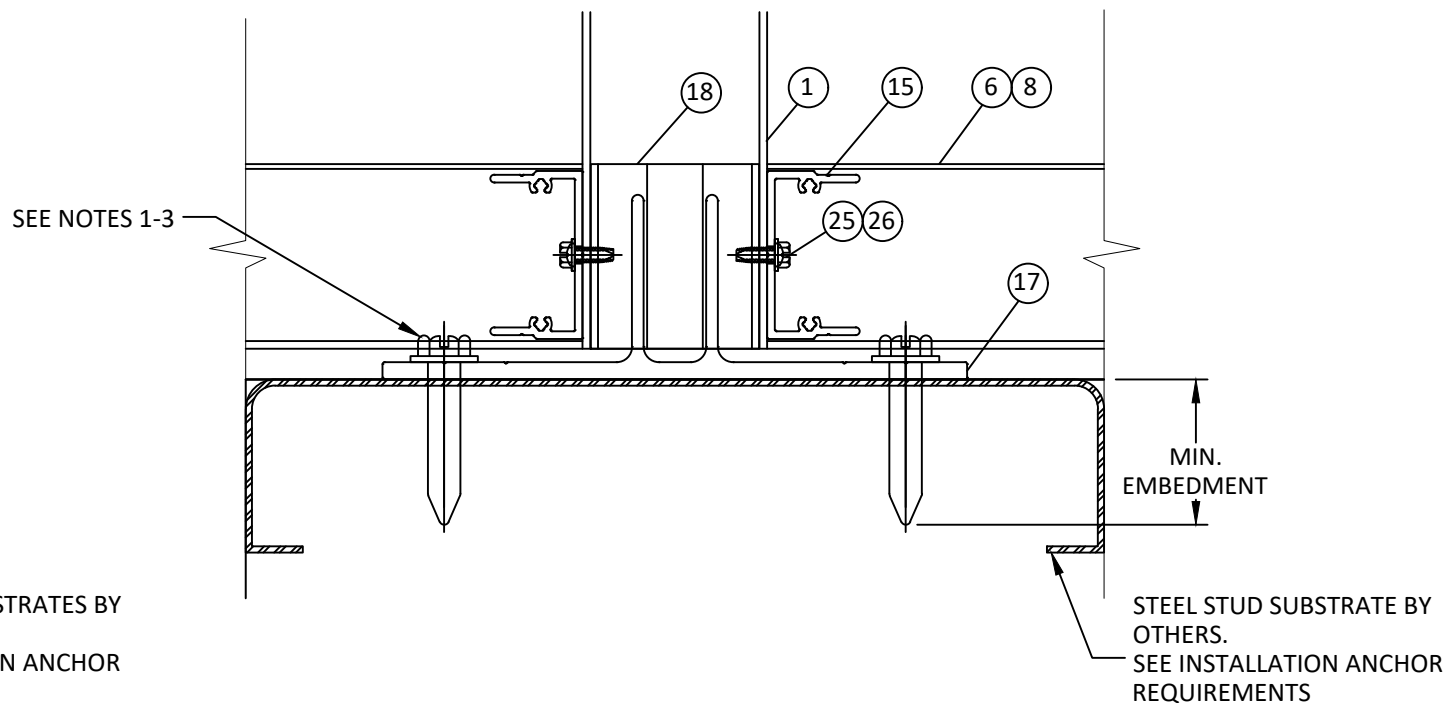
- NOTE:
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 3. REFER TO INSTALLATION ANCHOR REQUIREMENTS FOR MINIMUM EDGE DISTANCES (E.D.), EMBEDMENTS (EMBED), & PROPERTIES OF OPENING SUBSTRATE

12 HORIZONTAL SECTION
7.4 T-ANCHOR CONFIG 1

- NOTE:
1. STANDARD DUTY MEMBERS SHOWN. HEAVY DUTY MULLIONS ARE SIMILAR WITH E1-3034 (INTERMEDIATE VERTICAL MULLION) ITEM #79 & E1-3035 (JAMB MULLION) ITEM #80 END ANCHORS.



EXTERIOR VIEW
F-ANCHOR (TYPICAL)



EXTERIOR VIEW
T-ANCHOR (TYPICAL)



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

TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM

F & T - ANCHOR DETAILS

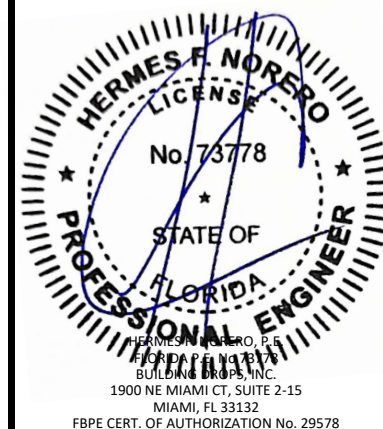
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #: **FL13433**

DATE: **7.18.17**

DWG. BY: **AR/RV** CHK. BY: **HFN**

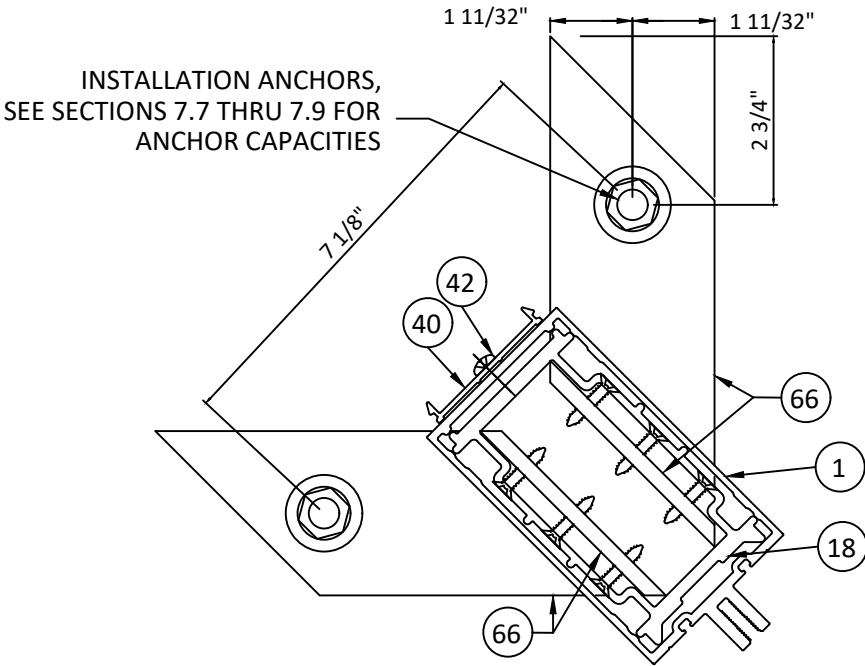
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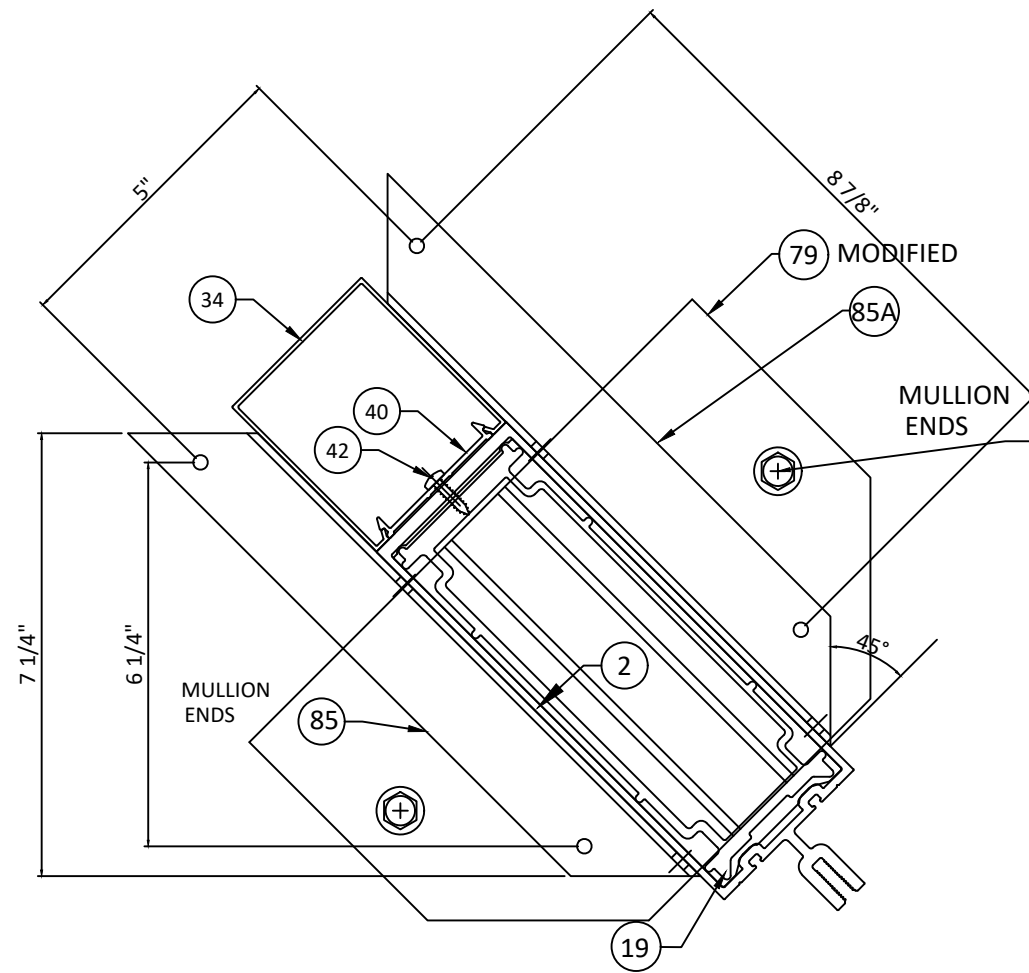
SECTION:

7.4

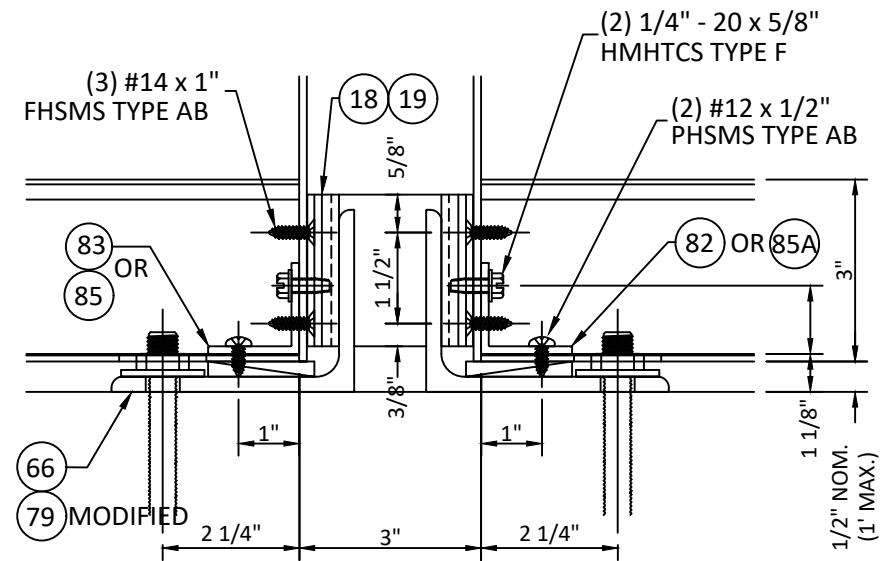
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13
7.5 **HORIZONTAL SECTION**
CORNER MULLION ANCHOR



13A
7.5 **HORIZONTAL SECTION**
CORNER MULLION ANCHOR



CORNER MULLION ANCHORS
FRONT VIEW



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

TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM
F & T - ANCHOR DETAILS

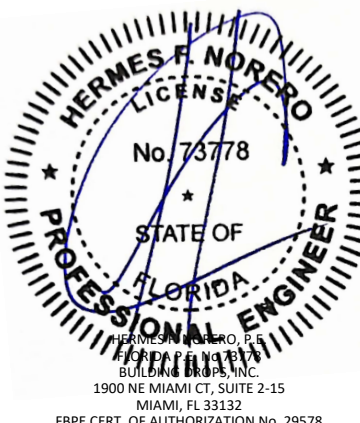
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
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BUILDING DROPS

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL13433

DATE: **7.18.17**

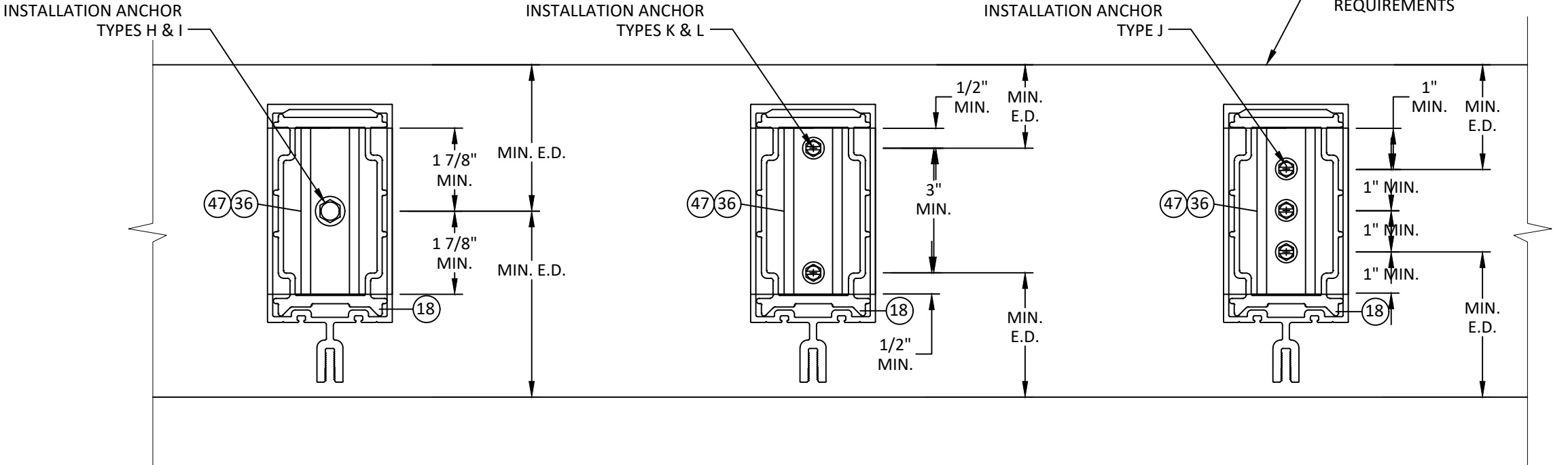
DWG. BY: **AR/RV**CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK206**

SECTION:
7.5
[Page 18 of 35]

S ANCHOR DETAILS

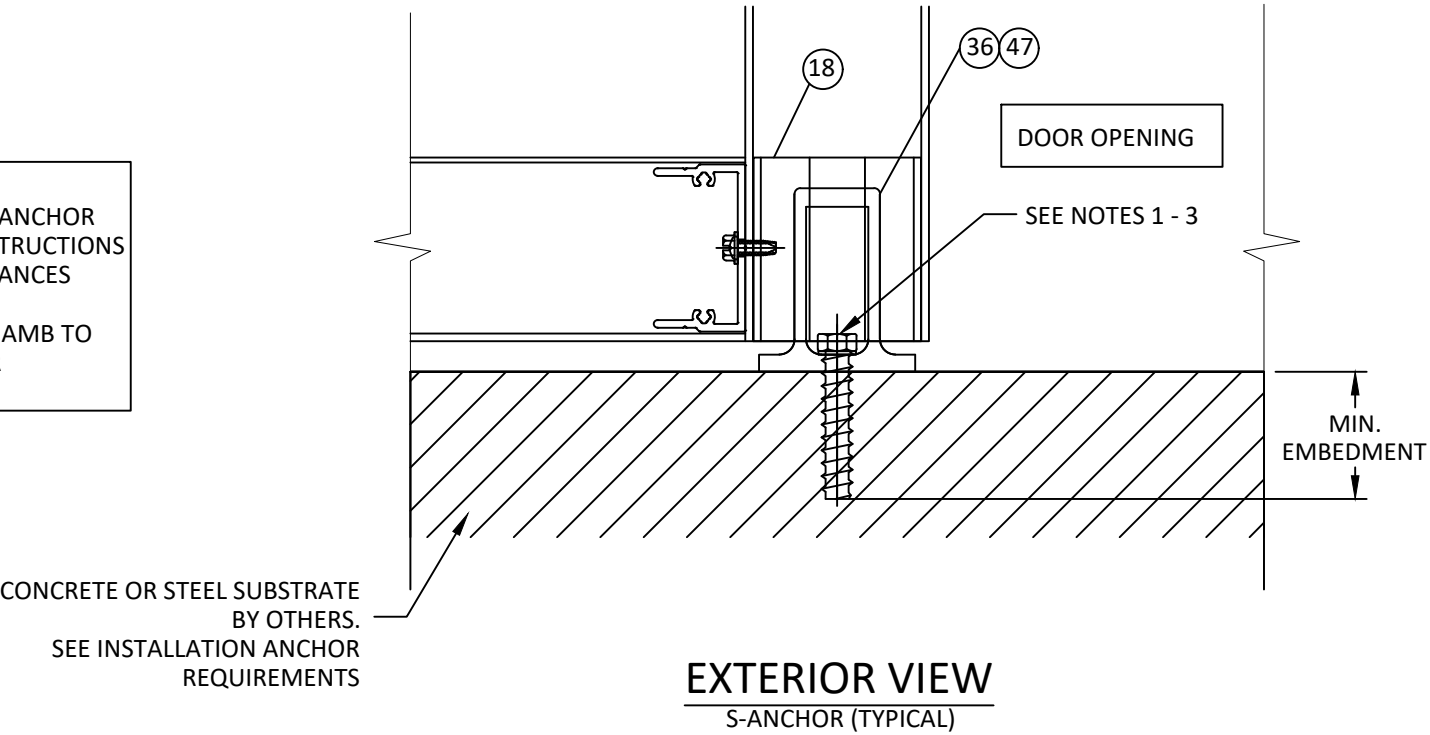


14 HORIZONTAL SECTION
7.6 S-ANCHOR
CONFIG 4

15 HORIZONTAL SECTION
7.6 S-ANCHOR
CONFIG 5

16 HORIZONTAL SECTION
7.6 S-ANCHOR
CONFIG 6

- NOTE:
- 1. ANCHORS SHOWN HEREIN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL ANCHOR IDENTIFICATION SHALL BE PER ANCHOR MANUFACTURERS INSTALLATION INSTRUCTIONS
 - 2. REFER TO INSTALLATION ANCHOR REQUIREMENTS FOR MINIMUM EDGE DISTANCES (E.D.), EMBEDMENTS (EMBED), & PROPERTIES OF OPENING SUBSTRATE.
 - 3. ALTERNATIVELY, F-ANCHORS MAY BE USED IN LIEU OF S-ANCHORS AT DOOR JAMB TO SIDELITE LOCATIONS. REFER TO SECTION 7 & 8 FOR DETAILS & FOR F-ANCHOR CAPACITIES.



EXTERIOR VIEW
S-ANCHOR (TYPICAL)



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

TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM

S - ANCHOR DETAILS

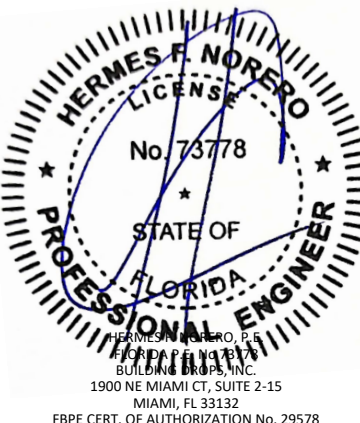
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #:	FL13433
DATE:	7.18.17
DWG. BY:	AR/RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK206
SECTION:	7.6

MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)																	
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
36	126	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
42		90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
48		90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
54		90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
60		85	90	90	90	90	90	90	90	85	90	90	85	90	85	85	
66		77	90	90	90	90	90	90	90	77	90	90	77	90	77	77	
72		71	90	89	90	90	90	90	90	86	71	90	90	71	90	71	71
36	132	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
42		90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
48		90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
54		90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
60		81	90	90	90	90	90	90	90	81	90	90	81	90	81	81	
66		74	90	90	90	90	90	90	90	89	74	90	90	74	90	74	74
72		68	90	85	90	90	90	90	90	82	68	90	90	68	90	68	68
36	138	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
42		90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
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54		86	90	90	90	90	90	90	90	86	90	90	86	90	86	86	
60		78	90	90	90	90	90	90	90	90	78	90	90	78	90	78	78
66		71	90	88	90	90	90	90	90	85	71	90	90	71	90	71	71
72		65	90	81	90	90	90	90	90	78	65	90	90	65	90	65	65
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60		75	90	90	90	90	90	90	90	90	75	90	90	75	90	75	75
66		68	90	85	90	90	90	90	90	82	68	90	90	68	90	68	68
72		62	90	78	90	90	90	90	90	75	62	90	90	62	90	62	62
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72		57	90	72	90	90	90	90	89	69	57	89	89	57	90	57	57
36	162	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
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66		60	90	75	90	90	90	90	90	72	60	90	90	60	90	60	60
72		55	90	69	90	90	90	90	86	66	55	86	86	55	90	55	55



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1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021

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

TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM

CURTAIN WALL SYSTEM

F & T - ANCHOR CAPACITY TABLE

PREPARED BY: BUILDING DROPS, INC.

MIAMI CT, SUITE 2-15

MIAMI, FL 33132

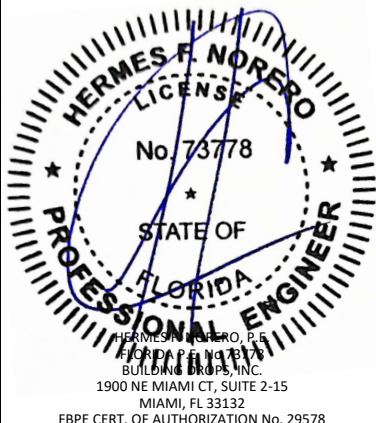
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 FAX: (954) 344-1738

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REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #:

FL13433

DATE: 7.18.17

DWG. BY:

AR/RV

CHK. BY:

HFN

SCALE: NTS

DWG. #: YKK206

SECTION:

7.7

[Page 20 of 35]

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NOTE:

1. REFER TO SECTION 7.0 THRU 7.6 FOR DETAILS OF ANCHOR REQUIREMENTS. AND DETERMINING MAX. SPAN 'L' AND TRIBUTARY WIDTHS 'W'.
2. SEE SECTION 2, TWIN SPAN ELEVATION FOR LOCATION OF F-ANCHOR WHEN USED AT VERTICAL MULLION BETWEEN DOOR AND D.L.O.



YKK AP
Quality
inspiresTM

1229 HWY 441 BYPASS

DUBLIN, GEORGIA 31021

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

CURTAIN WALL SYSTEM

ANCHOR CAPACITY TABLE

1900 NE MIAMI CT, SUITE 2-15

MIAMI, FL 33132
PH: (954) 399-8478

FAX: (954)744.4738

WEB: www.buildingdrops.com



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DATE: 7.18.17

SCALE: NTS

DWG. #: YKK206

SECTION: _____

[Page 21 of 35]

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SINGLE SPAN & MULTI SPAN
S ANCHOR CAPACITIES

MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)						
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	H	I	J	K	L
36	78	90	90	90	46	90
42		90	90	90	39	90
48		85	90	86	34	86
54		75	90	76	30	76
60		68	83	68	27	68
66		62	75	62	25	62
72	84	56	69	57	23	57
36		90	90	90	42	90
42		90	90	90	36	90
48		79	90	80	32	80
54		70	85	71	28	71
60		63	77	64	25	64
66	90	57	70	58	23	58
72		52	64	53	21	53
36		90	90	90	40	90
42		84	90	85	34	85
48		74	90	74	30	74
54		65	80	66	26	66
60	96	59	72	59	24	59
66		53	65	54	21	54
72		49	60	49	20	49
36		90	90	90	37	90
42		79	90	80	32	80
48		69	84	70	28	70
54	102	61	75	62	25	62
60		55	67	56	22	56
66		50	61	50	20	50
72		46	56	46	18	46
36		87	90	87	35	87
42		74	90	75	30	75
48	108	65	79	65	26	65
54		58	70	58	23	58
60		52	63	52	21	52
66		47	57	47	19	47
72		43	52	43	17	43
36		82	90	82	33	82
42	114	70	85	71	28	71
48		61	75	62	25	62
54		54	66	55	22	55
60		49	60	49	20	49
66		44	54	45	18	45
72		41	50	41	16	41
36		77	90	78	31	78
42		66	81	67	27	67
48		58	71	58	23	58
54		51	63	52	21	52
60		46	56	47	18	47
66		42	51	42	17	42
72		38	47	39	15	39

MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)						
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	H	I	J	K	L
36	120	74	74	90	30	74
42		63	64	90	25	64
48		55	56	84	22	56
54		49	49	74	20	49
60		44	44	67	18	44
66		40	40	61	16	40
72	126	37	37	56	15	37
36		70	71	90	28	71
42		60	60	90	24	60
48		52	53	80	21	53
54		46	47	71	19	47
60		42	42	64	17	42
66	132	38	38	58	15	38
72		35	35	53	14	35
36		67	67	90	27	67
42		57	58	87	23	58
48		50	50	76	20	50
54		44	45	68	18	45
60	138	40	40	61	16	40
66		36	37	55	14	37
72		33	33	51	13	33
36		64	64	90	26	64
42		55	55	83	22	55
48		48	48	73	19	48
54	144	42	43	65	17	43
60		38	38	58	15	38
66		35	35	53	14	35
72		32	32	48	13	32
36		61	62	90	25	62
42		52	53	80	21	53
48	150	46	46	70	18	46
54		41	41	62	16	41
60		37	37	56	15	37
66		33	33	51	13	33
72		30	31	46	12	31
36		59	59	89	24	59
42		50	51	76	20	51
48		44	44	67	18	44
54		39	39	59	16	39
60		35	35	53	14	35
66		32	32	48	13	32
72		29	29	44	12	29

- NOTE:
- REFER TO SECTION 7.0 THRU 7.6 FOR DETAILS OF ANCHOR REQUIREMENTS. AND DETERMINING MAX. SPAN 'L' AND TRIBUTARY WIDTHS 'W'
 - SEE SECTION 2, TWIN SPAN ELEVATION FOR LOCATION OF F-ANCHOR WHEN USED AT VERTICAL MULLION BETWEEN DOOR AND D.L.O.



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YKK AP AMERICA

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

TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM

S - ANCHOR CAPACITY TABLE

PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL13433

DATE:

7.18.17

DWG. BY:

CHK. BY:

AR/RV

HFN

SCALE:

NTS

DWG. #:

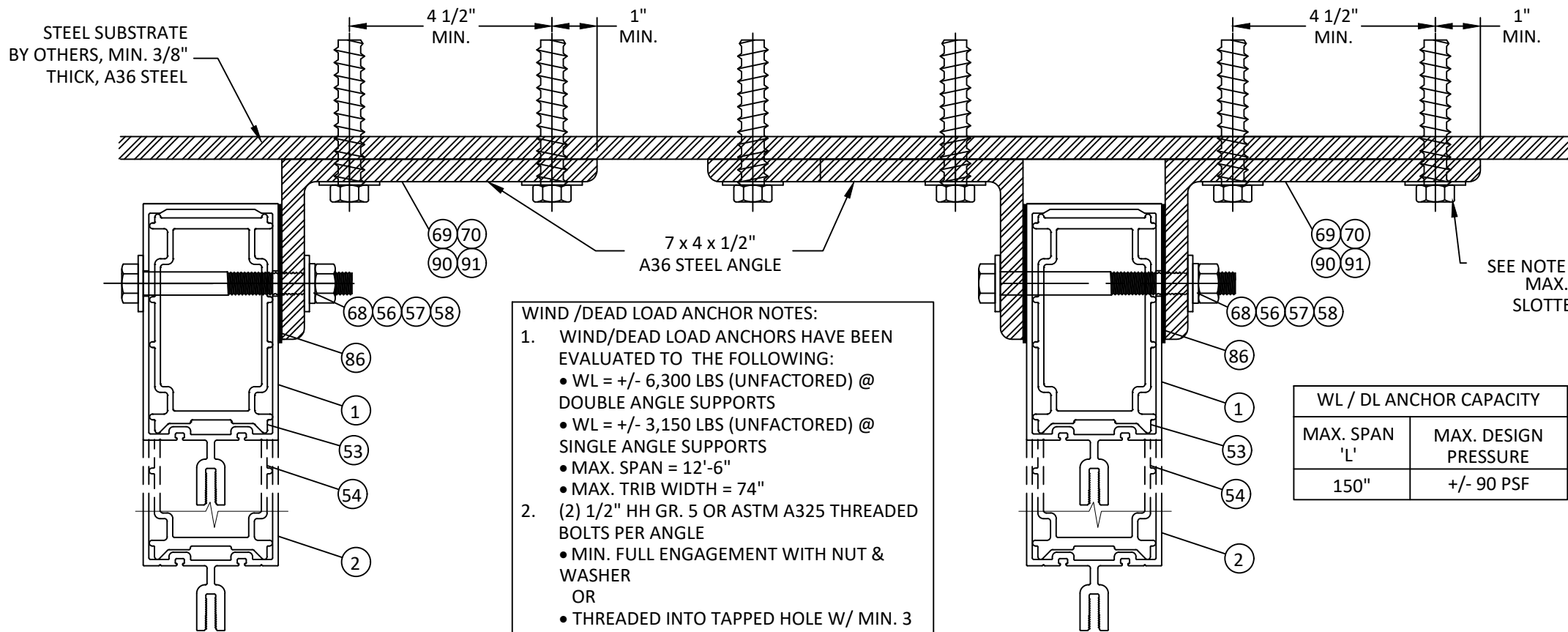
YKK206

SECTION:

7.9

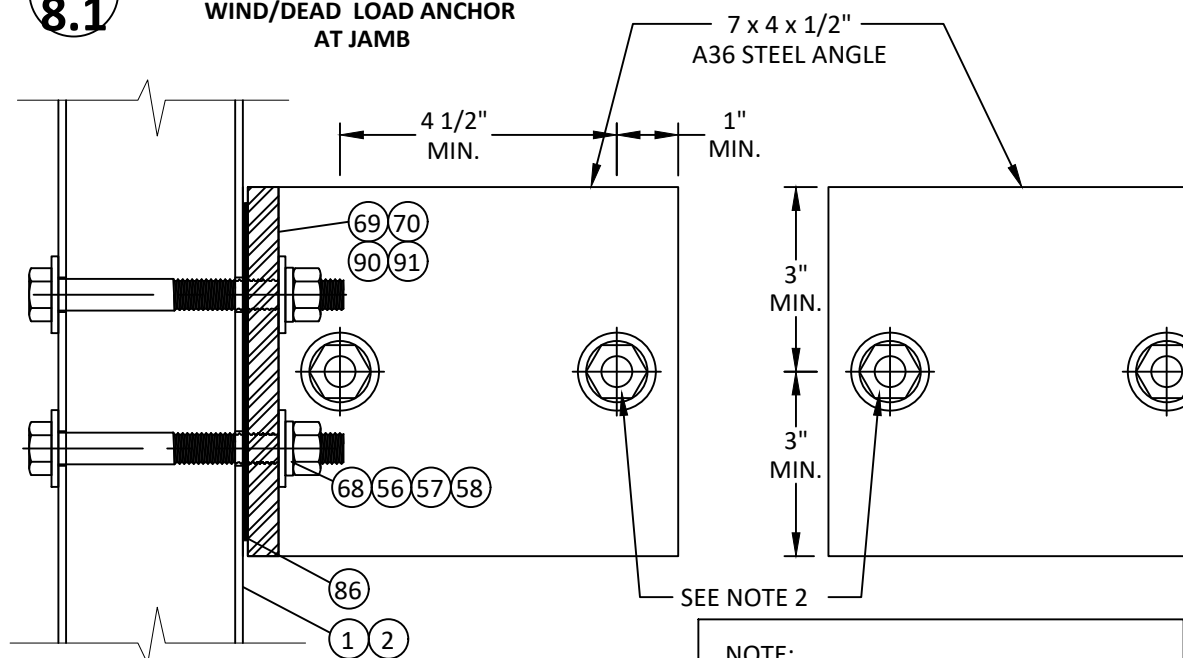
[Page 22 of 35]

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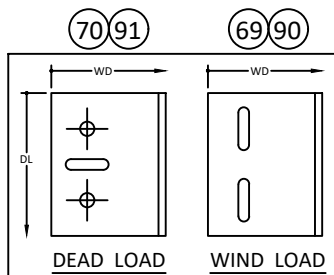
20 HORIZONTAL SECTION

8.1 WIND/DEAD LOAD ANCHOR AT JAMB



EXTERIOR VIEW

WIND/DEAD LOAD ANCHOR AT JAMB

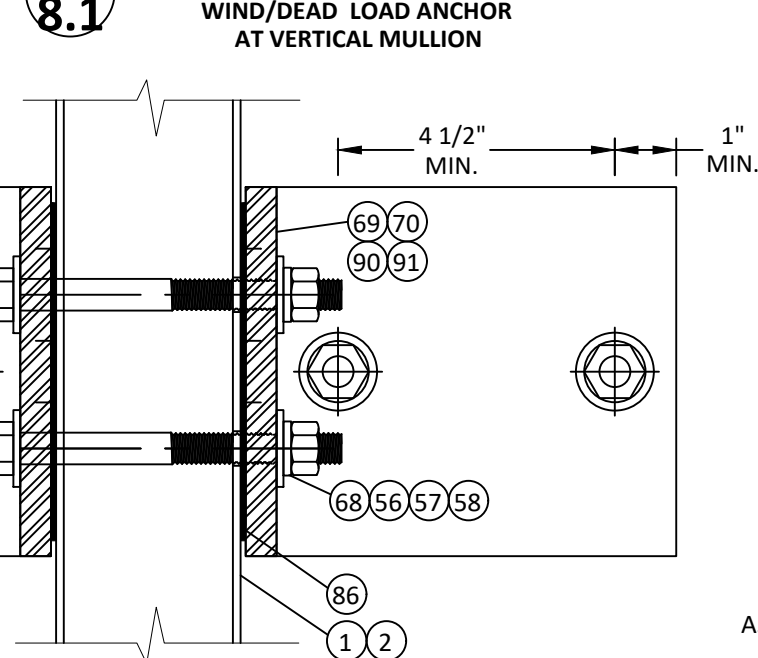


NOTE:

1) ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

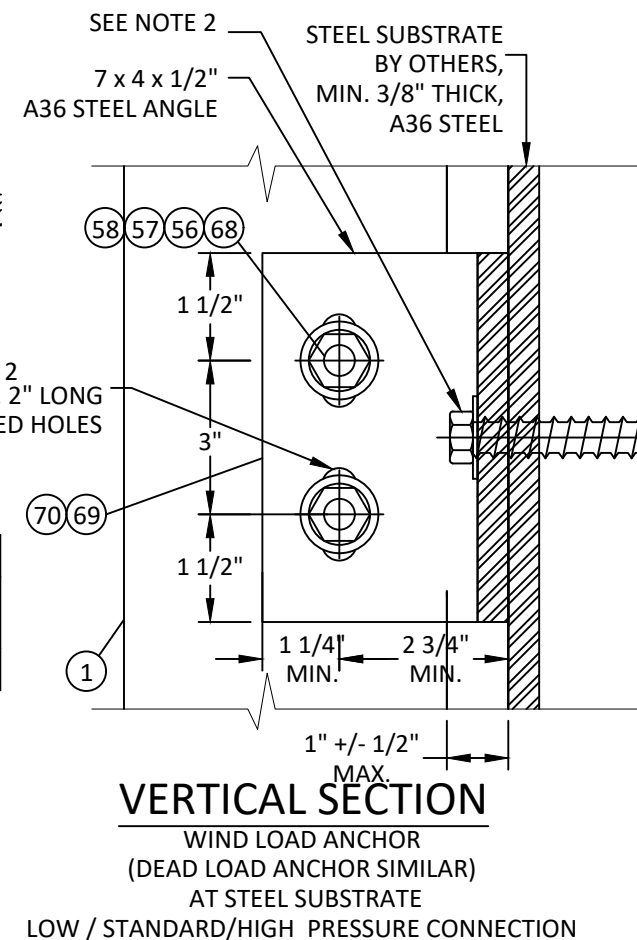
21 HORIZONTAL SECTION

8.1 WIND/DEAD LOAD ANCHOR AT VERTICAL MULLION

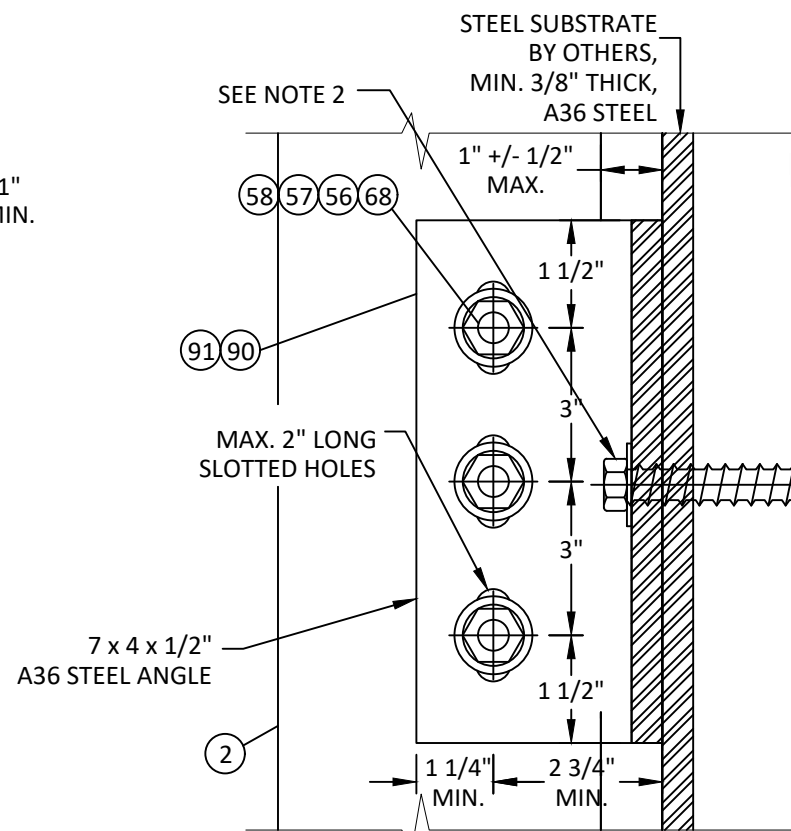


EXTERIOR VIEW

WIND/DEAD LOAD ANCHOR AT VERTICAL MULLION



VERTICAL SECTION



VERTICAL SECTION

WIND/DEAD LOAD ANCHOR (DEAD LOAD ANCHOR SIMILAR) AT STEEL SUBSTRATE HIGH PRESSURE CONNECTION

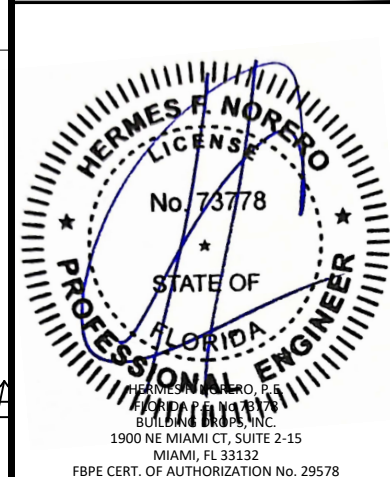


YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (MISSILE E) CURTAIN WALL SYSTEM
WIND LOAD / DEAD LOAD ANCHOR DETAILS
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL13433

DATE: **7.18.17**

DWG. BY: **AR/RV** CHK. BY: **HFN**

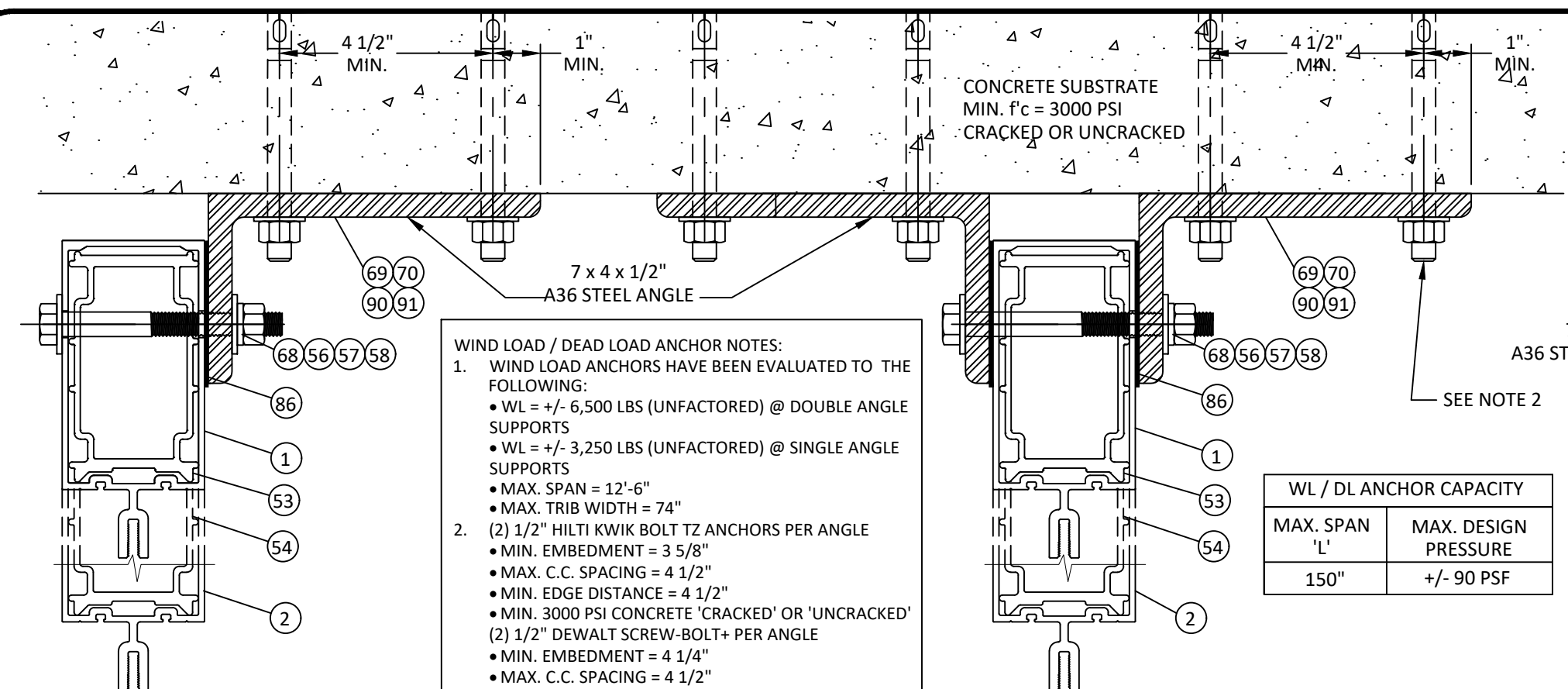
SCALE: **NTS**

DWG. #: **YKK206**

SECTION:

8.1

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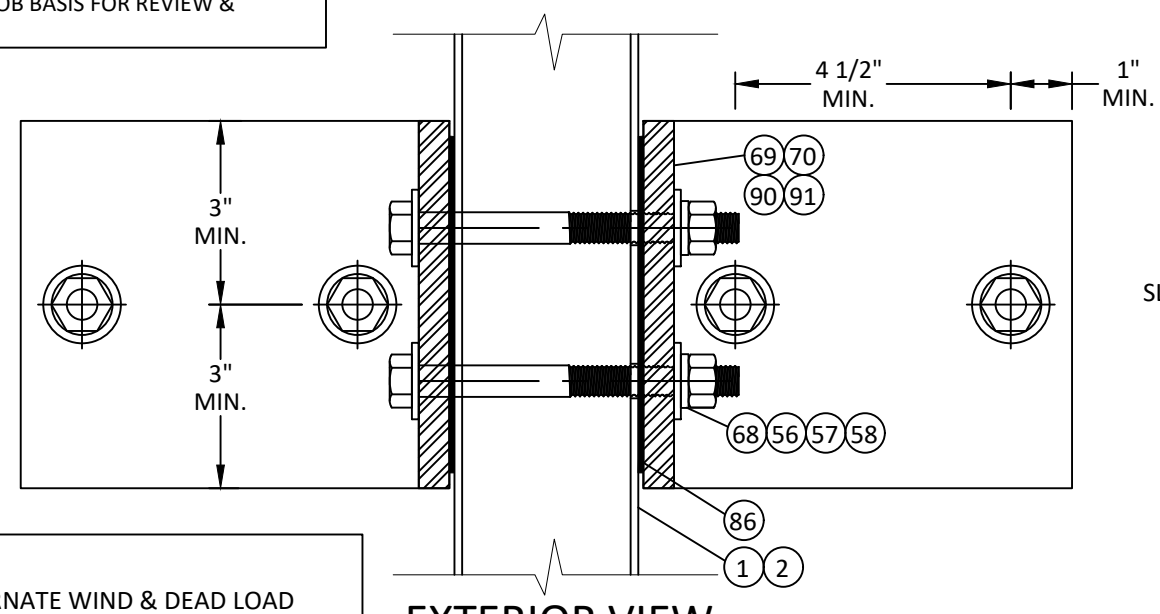
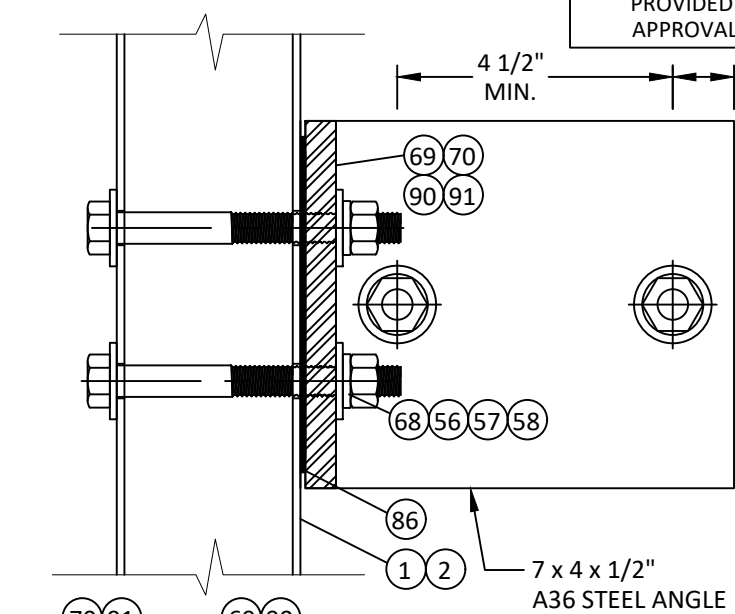


- WIND LOAD / DEAD LOAD ANCHOR NOTES:**
- WIND LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 6,500 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - WL = +/- 3,250 LBS (UNFACTORED) @ SINGLE ANGLE SUPPORTS
 - MAX. SPAN = 12'-6"
 - MAX. TRIB WIDTH = 74"
 - (2) 1/2" HILTI KWIK BOLT TZ ANCHORS PER ANGLE
 - MIN. EMBEDMENT = 3 5/8"
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 4 1/2"
 - MIN. 3000 PSI CONCRETE 'CRACKED' OR 'UNCRAKED'(2) 1/2" DEWALT SCREW-BOLT+ PER ANGLE
 - MIN. EMBEDMENT = 4 1/4"
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 5"
 - MIN. 3000 PSI CONCRETE 'UNCRAKED'(2) 3/8" SIMPSON TITEN HD PER ANGLE
 - MIN. EMBEDMENT = 3 1/4"
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 3 5/8"
 - MIN. 4000 PSI CONCRETE 'CRACKED' OR 'UNCRAKED'
 - FOR SLABS LESS THAN 8" IN THICKNESS, DESIGN MAY BE PROVIDED ON JOB TO JOB BASIS FOR REVIEW & APPROVAL BY AHJ

WL / DL ANCHOR CAPACITY	
MAX. SPAN 'L'	MAX. DESIGN PRESSURE
150"	+/- 90 PSF

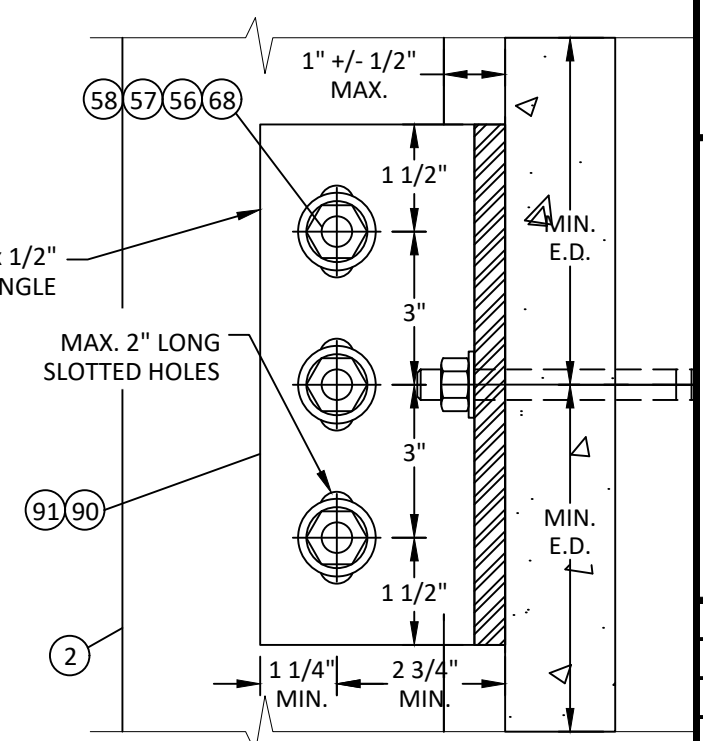
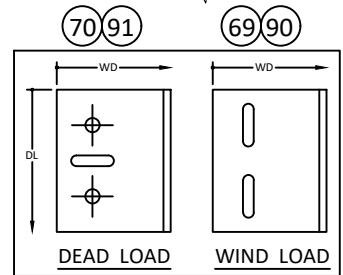
22 HORIZONTAL SECTION 8.2 WIND/DEAD LOAD ANCHOR AT JAMB

23 HORIZONTAL SECTION 8.2 WIND/DEAD LOAD ANCHOR AT VERTICAL MULLION

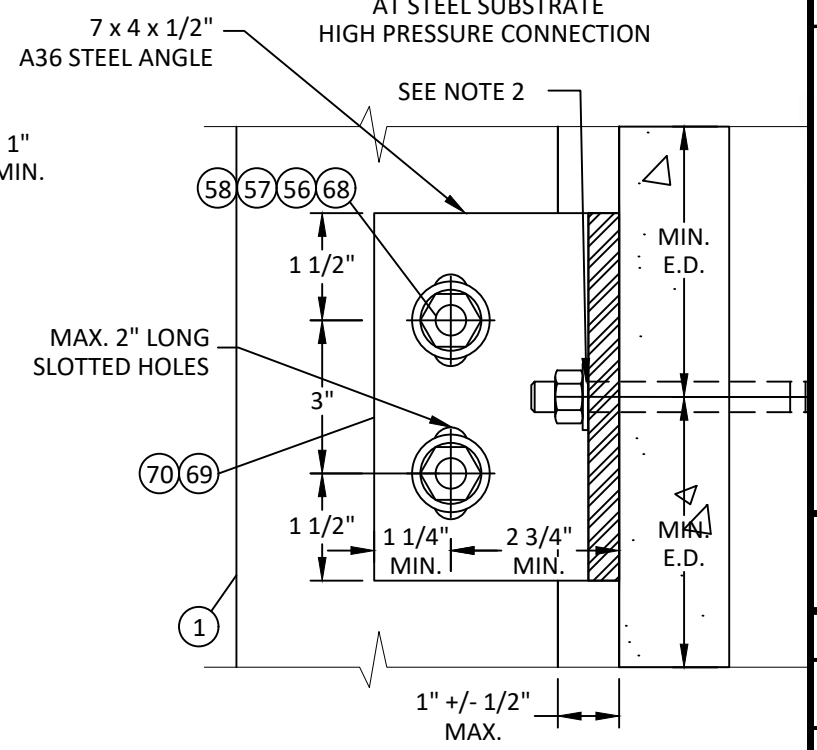


NOTE:
1) ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

EXTERIOR VIEW WIND/DEAD LOAD ANCHOR AT JAMB



VERTICAL SECTION WIND/DEAD LOAD ANCHOR (DEAD LOAD ANCHOR SIMILAR) AT STEEL SUBSTRATE HIGH PRESSURE CONNECTION



VERTICAL SECTION WIND LOAD ANCHOR (DEAD LOAD ANCHOR SIMILAR) AT STEEL SUBSTRATE LOW / STANDARD/HIGH PRESSURE CONNECTION

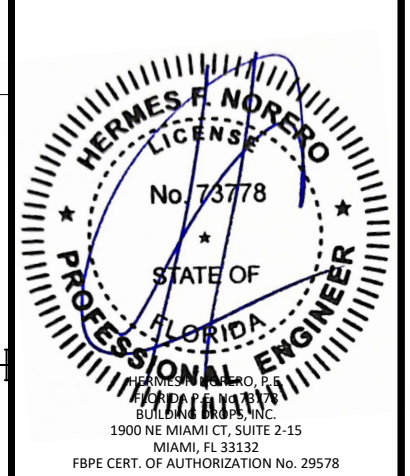


YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (MISSILE E) CURTAIN WALL SYSTEM
WIND LOAD / DEAD LOAD ANCHOR DETAILS
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

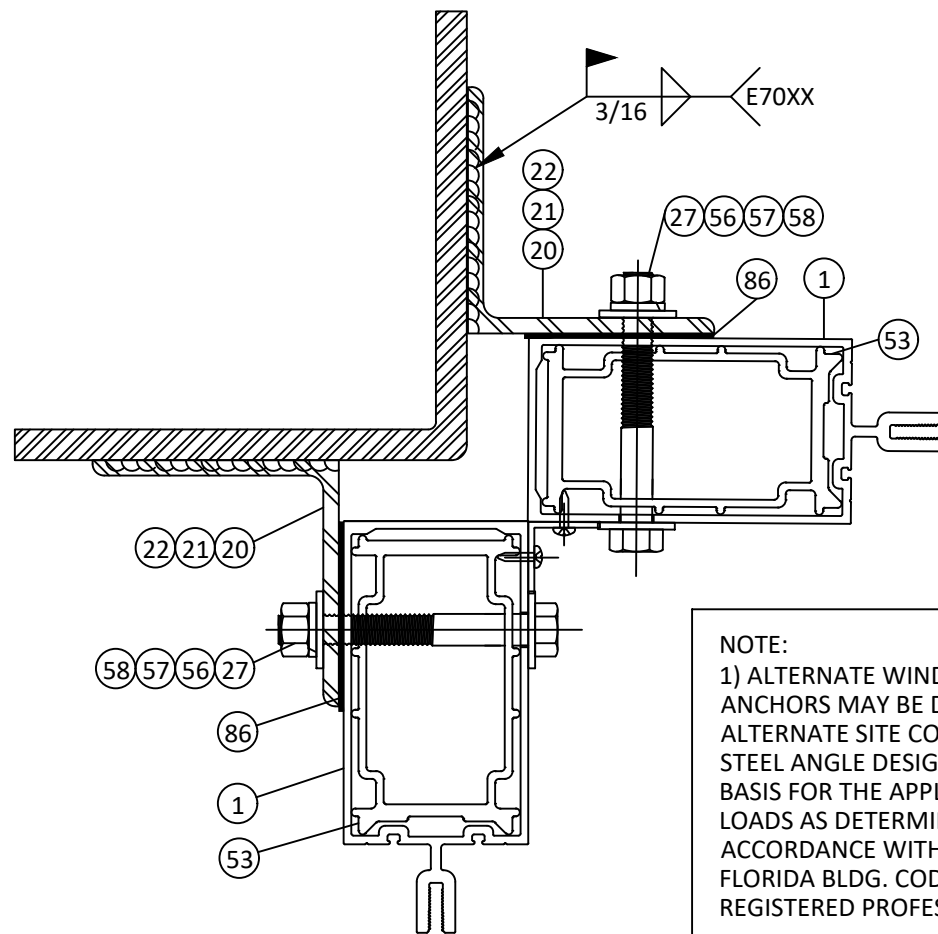
REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #:	FL13433
DATE:	7.18.17
DWG. BY:	AR/RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK206
SECTION:	8.2

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ALL ANGLES AND PLATES
TO BE A-36 STEEL
 $F_y = 36$ KSI MIN.

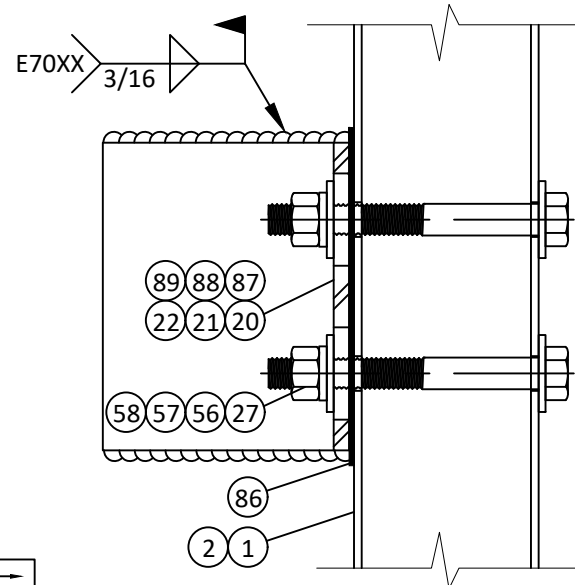
WIND LOAD ANCHOR

WIND + DEAD LOAD ANCHOR

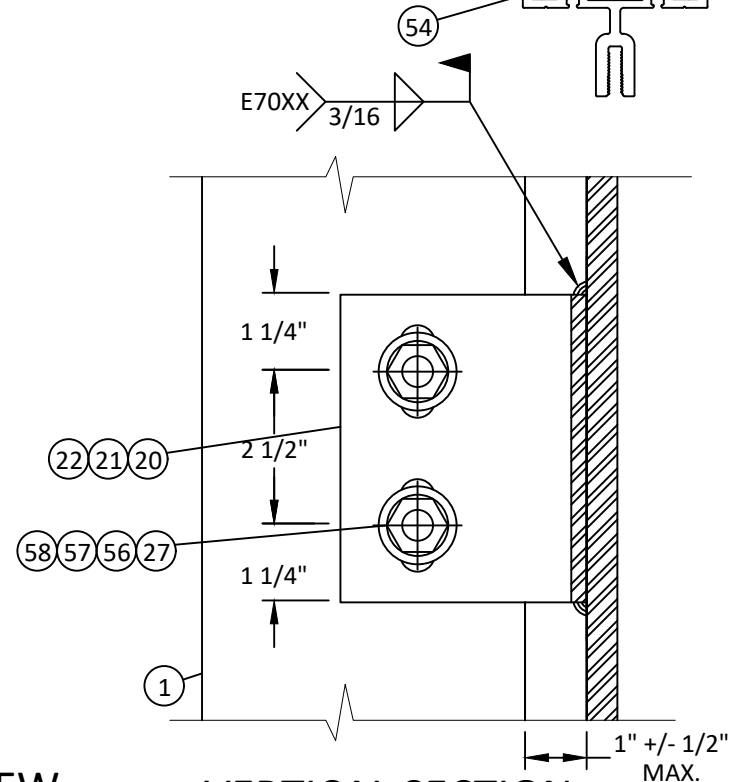
MAX. DESIGN LOAD = ± 90 PSF

NOTE:
1) ALTERNATE WIND & DEAD LOAD
ANCHORS MAY BE DESIGNED FOR
ALTERNATE SITE CONDITIONS AND
STEEL ANGLE DESIGN ON A JOB TO JOB
BASIS FOR THE APPLICABLE WIND
LOADS AS DETERMINED IN
ACCORDANCE WITH CH. 16 OF THE
FLORIDA BLDG. CODE BY A FLORIDA
REGISTERED PROFESSIONAL ENGINEER.

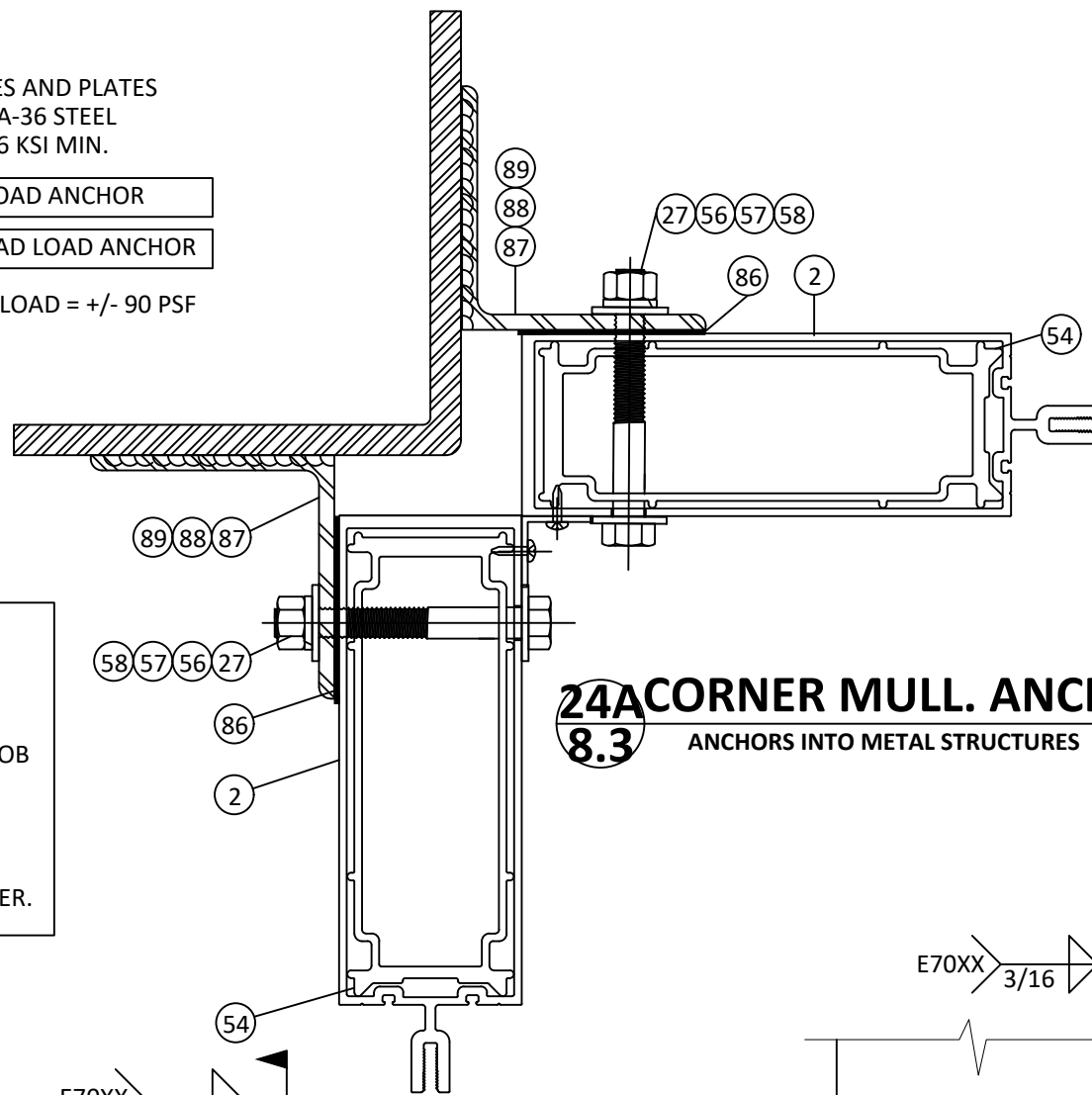
24 CORNER MULL. ANCH. 8.3 ANCHORS INTO METAL STRUCTURES



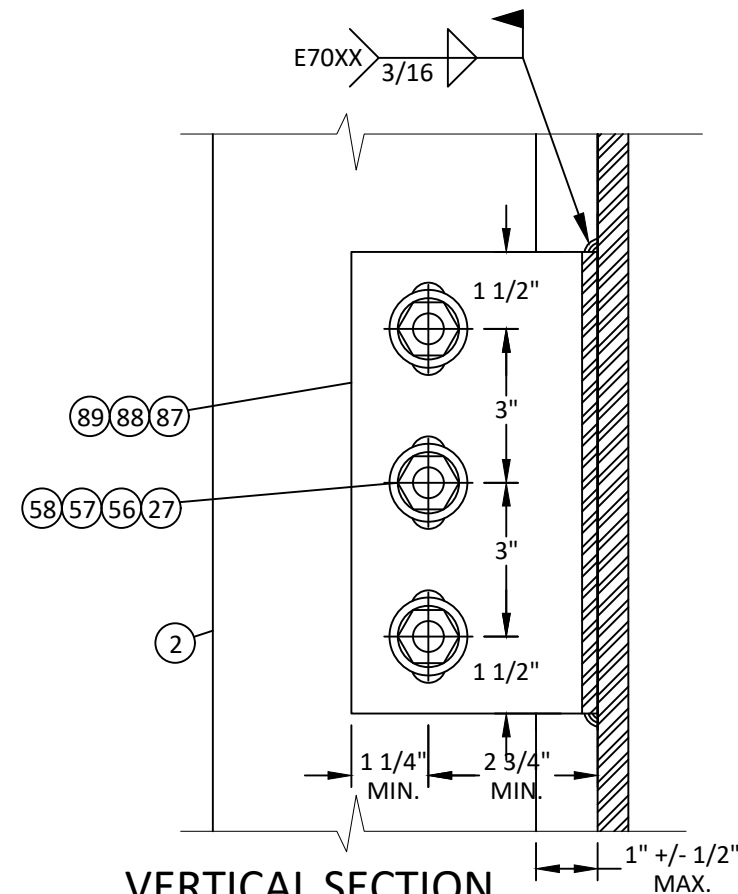
CORNER MULL FRONT VIEW
WIND/DEAD LOAD ANCHOR
AT STEEL SUBSTRATE
LOW/ STANDARD/ HIGH PRESSURE CONNECTION



VERTICAL SECTION
WIND LOAD ANCHOR
(DEAD LOAD ANCHOR SIMILAR)
AT STEEL SUBSTRATE
LOW / STANDARD/HIGH PRESSURE CONNECTION



24 CORNER MULL. ANCH. 8.3 ANCHORS INTO METAL STRUCTURES



VERTICAL SECTION
WIND LOAD ANCHOR
(DEAD LOAD ANCHOR SIMILAR)
AT STEEL SUBSTRATE
LOW / STANDARD/HIGH PRESSURE CONNECTION

- WIND LOAD ANCHOR NOTES:
1. WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = $\pm 6,300$ LBS (UNFACTORED) AT DOUBLE ANGLE SUPPORTS
 - WL = $\pm 3,150$ LBS (UNFACTORED) AT SINGLE ANGLE SUPPORTS
 - MAX. SPAN = 12'-6"
 - MAX. TRIB WIDTH = 74"



YKK AP AMERICA

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

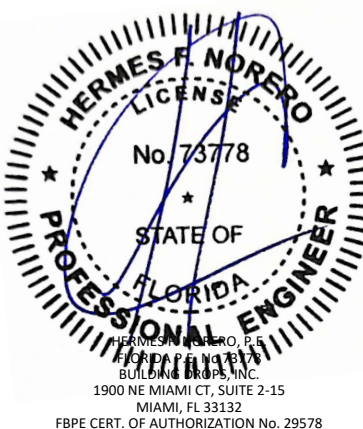
TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM
WIND LOAD / DEAD LOAD
ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #:
FL13433

DATE: **7.18.17**

DWG. BY: **AR/RV** CHK. BY: **HFN**

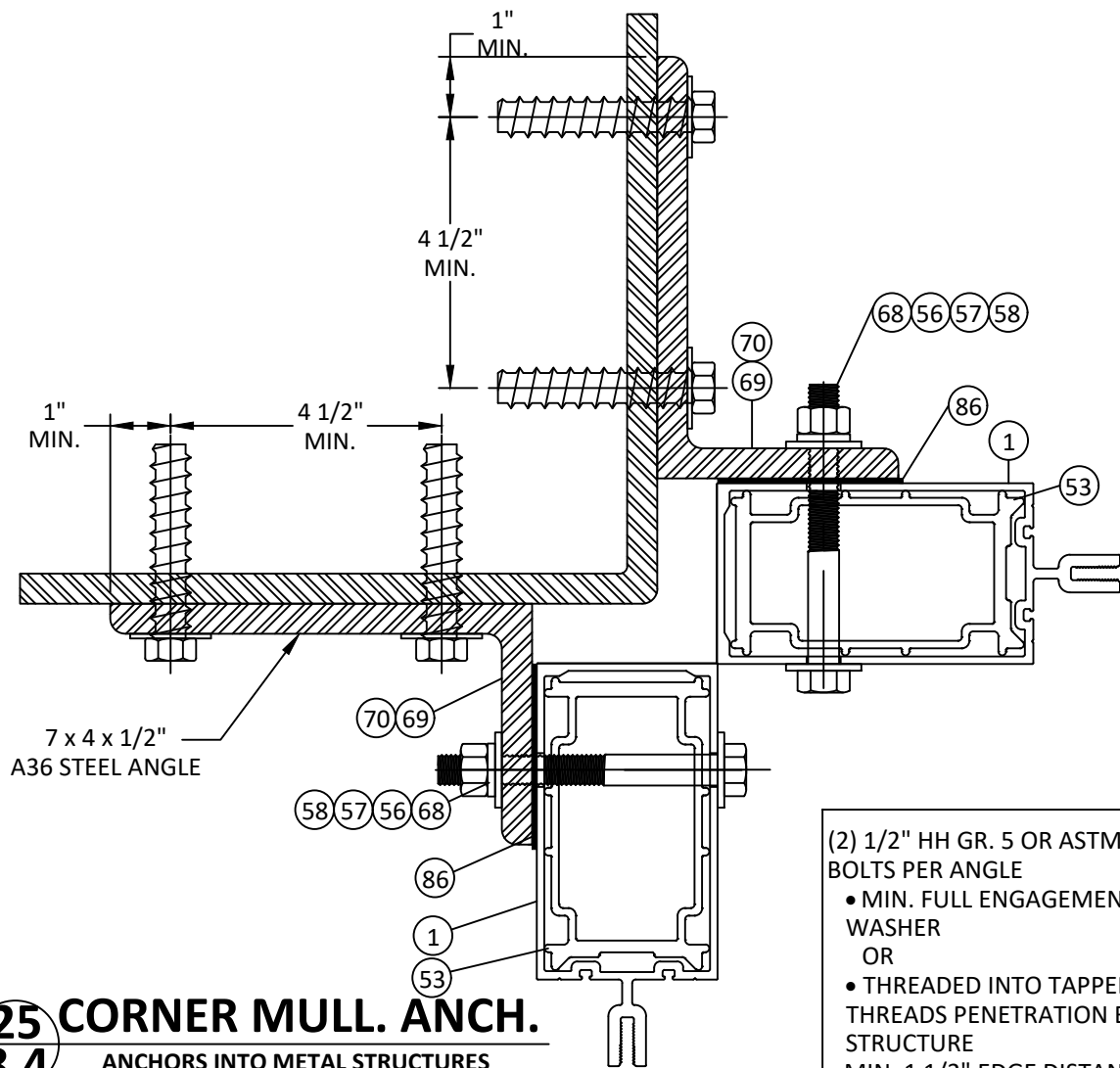
SCALE: **NTS**

DWG. #: **YKK206**

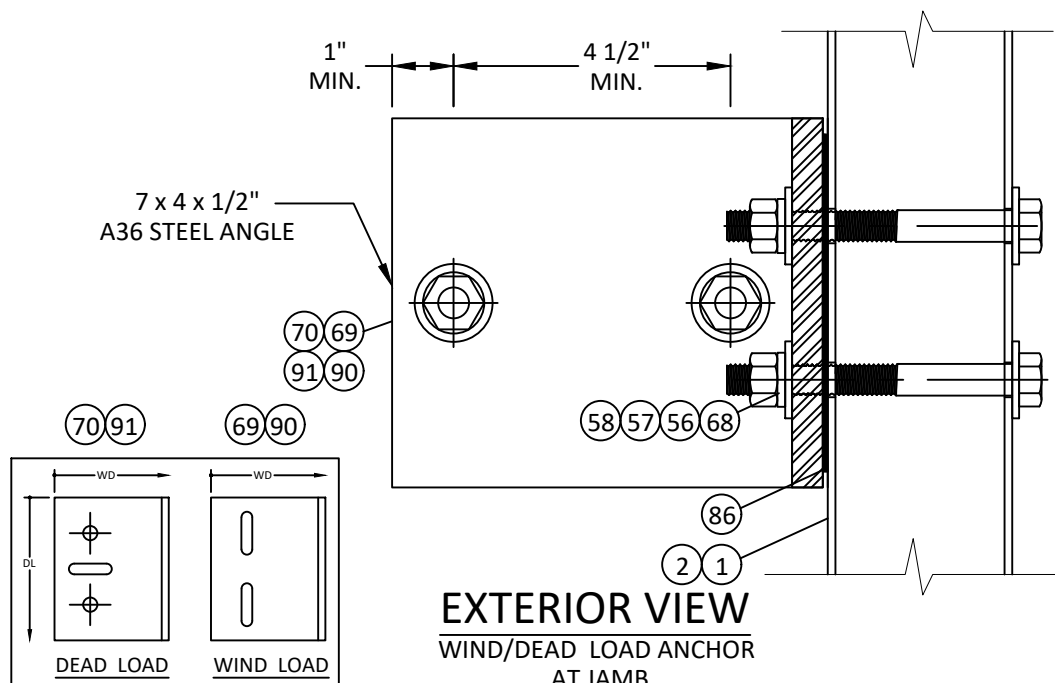
SECTION:

8.3

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25 CORNER MULL. ANCH.
8.4 ANCHORS INTO METAL STRUCTURES



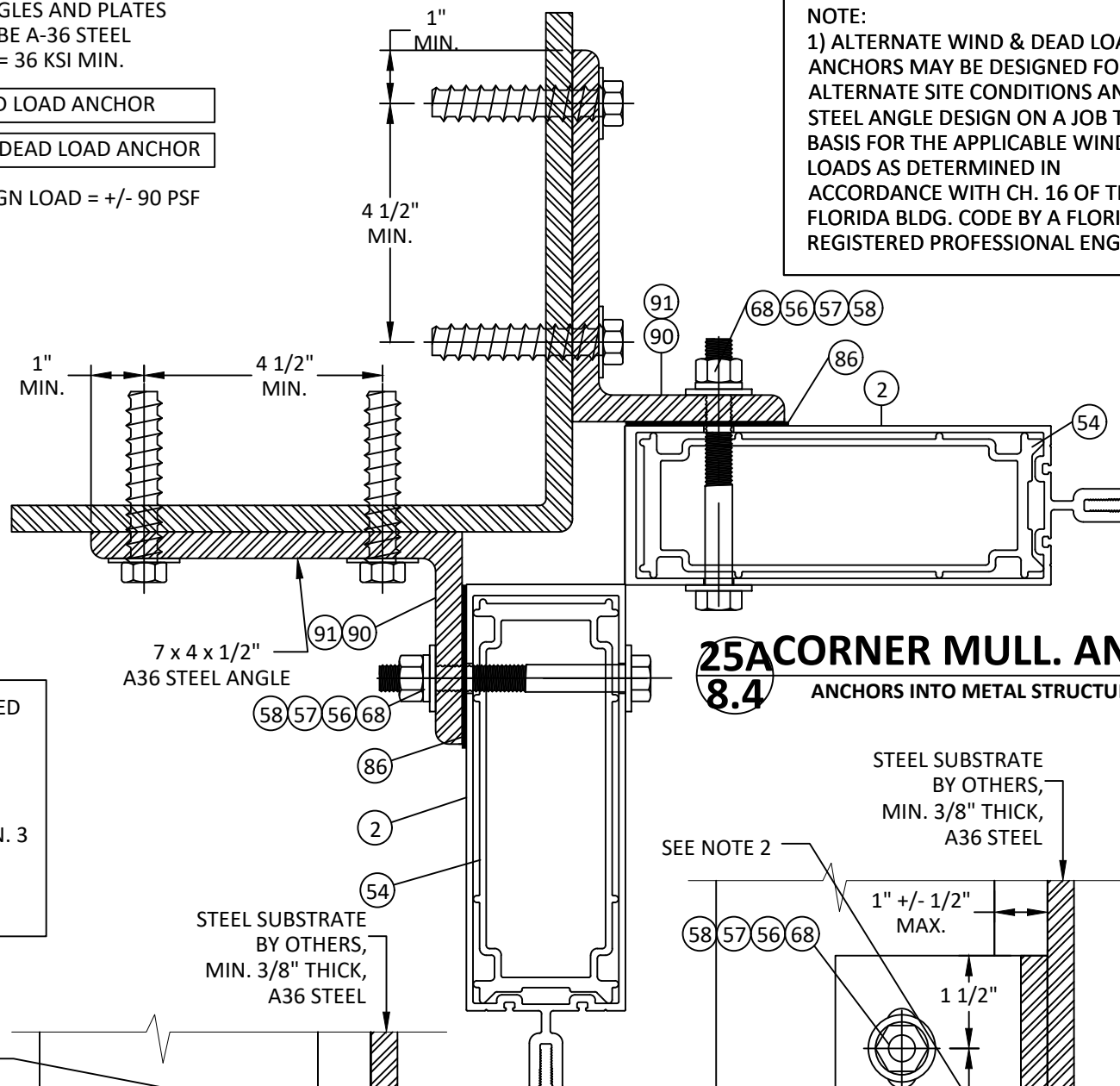
EXTERIOR VIEW
WIND/DEAD LOAD ANCHOR
AT JAMB

ALL ANGLES AND PLATES
TO BE A-36 STEEL
Fy = 36 KSI MIN.

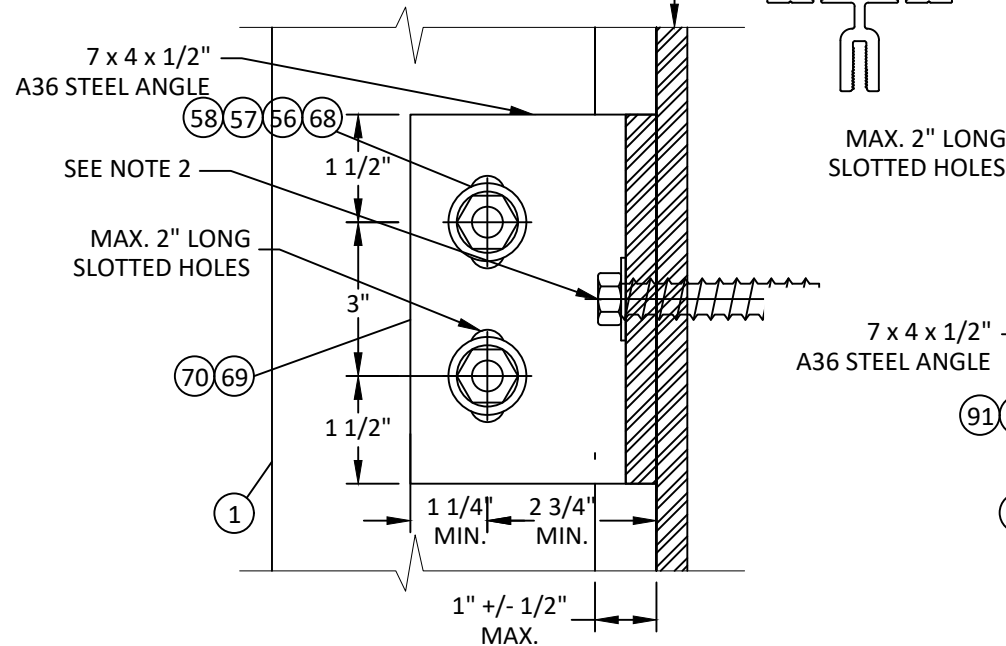
WIND LOAD ANCHOR

WIND + DEAD LOAD ANCHOR

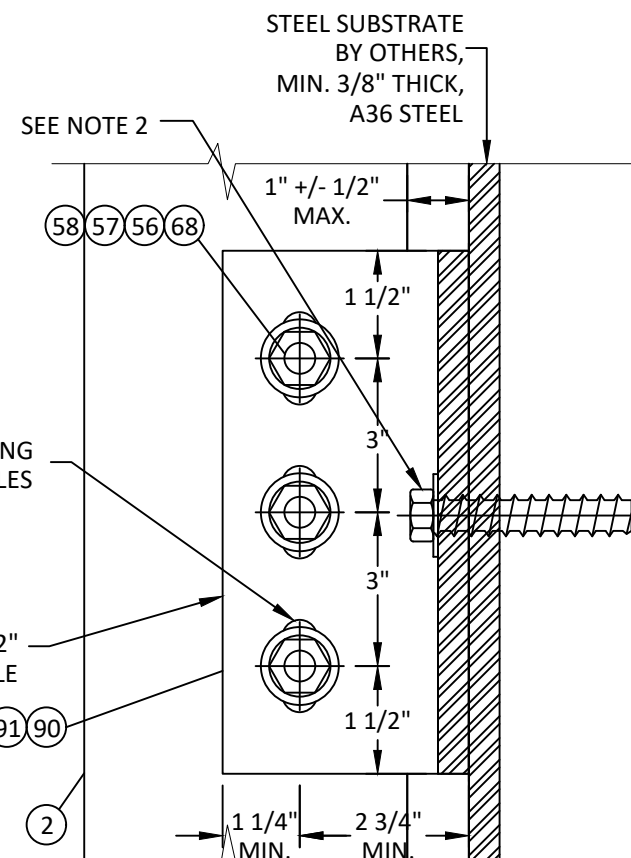
MAX. DESIGN LOAD = +/- 90 PSF



25 CORNER MULL. ANCH.
8.4 ANCHORS INTO METAL STRUCTURES



VERTICAL SECTION
WIND LOAD ANCHOR (DEAD LOAD ANCHOR SIMILAR)
AT STEEL SUBSTRATE LOW / STANDARD/HIGH PRESSURE CONNECTION



VERTICAL SECTION
WIND LOAD ANCHOR
(DEAD LOAD ANCHOR SIMILAR)
AT STEEL SUBSTRATE
HIGH PRESSURE CONNECTION

NOTE:
1) ALTERNATE WIND & DEAD LOAD
ANCHORS MAY BE DESIGNED FOR
ALTERNATE SITE CONDITIONS AND
STEEL ANGLE DESIGN ON A JOB TO JOB
BASIS FOR THE APPLICABLE WIND
LOADS AS DETERMINED IN
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TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM
WIND LOAD / DEAD LOAD
ANCHOR DETAILS

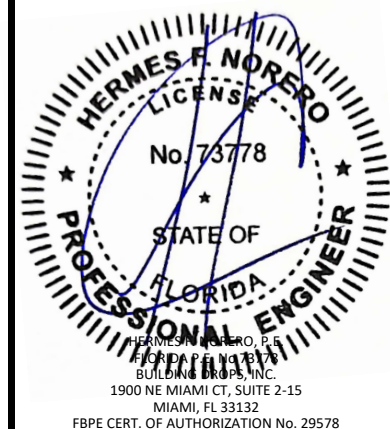
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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



FL #:

FL13433

DATE: **7.18.17**

DWG. BY: **AR/RV** CHK. BY: **HFN**

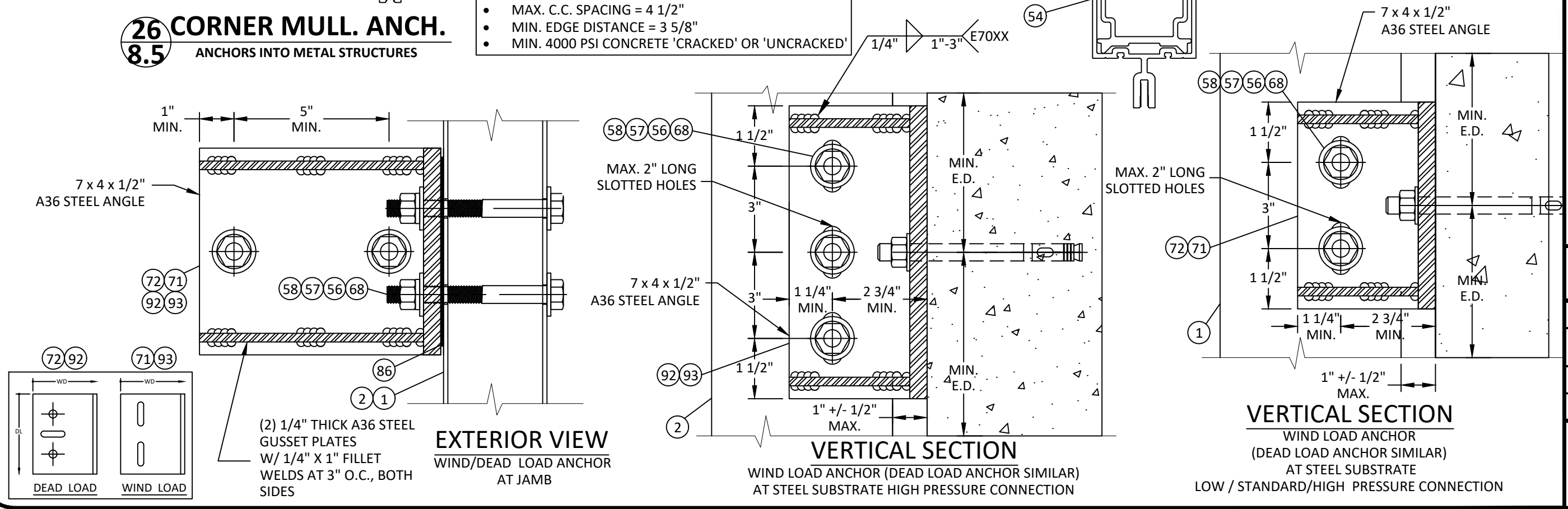
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DWG. #: **YKK206**

SECTION:

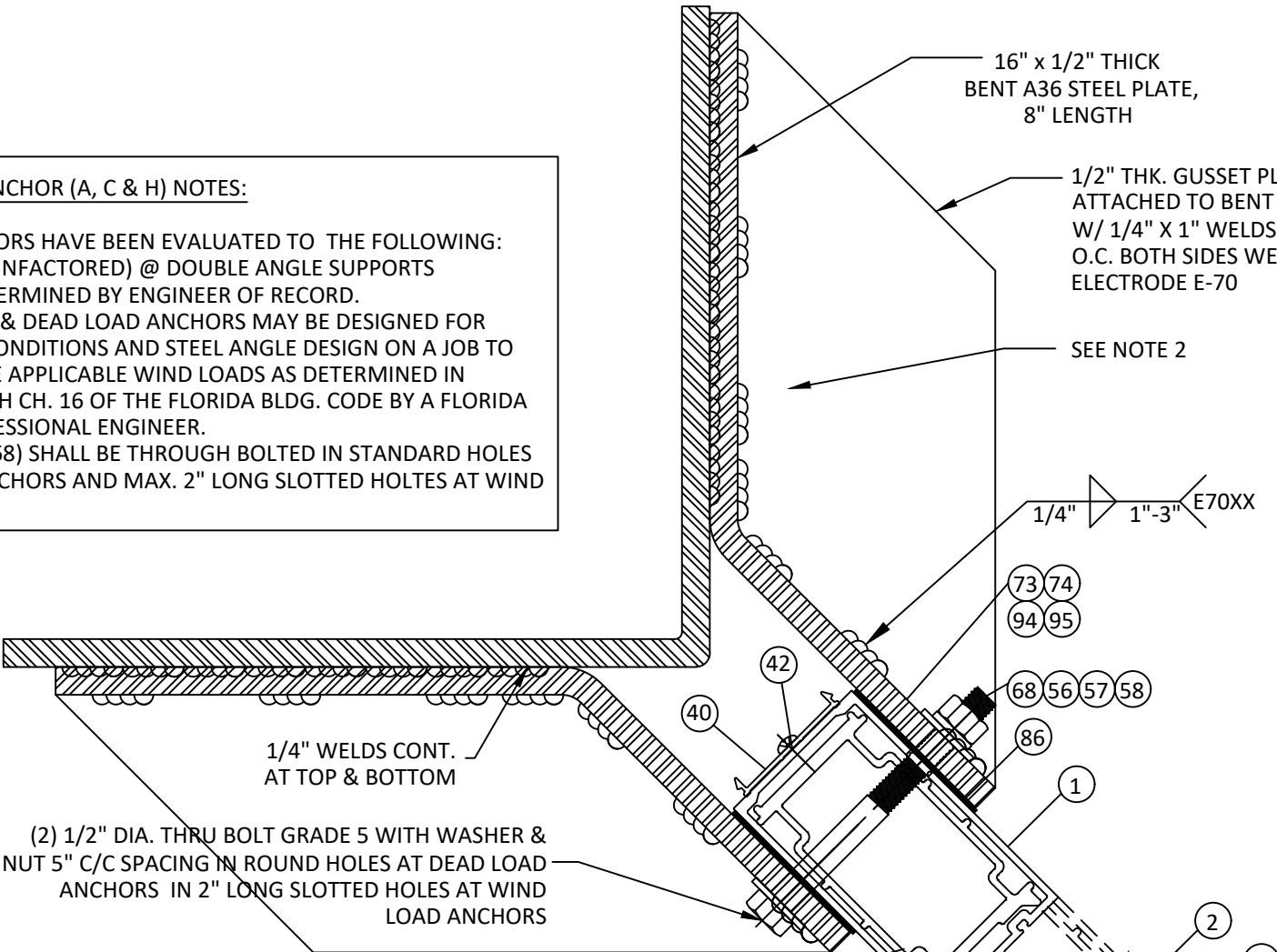
8.4

[Page 27 of 35]



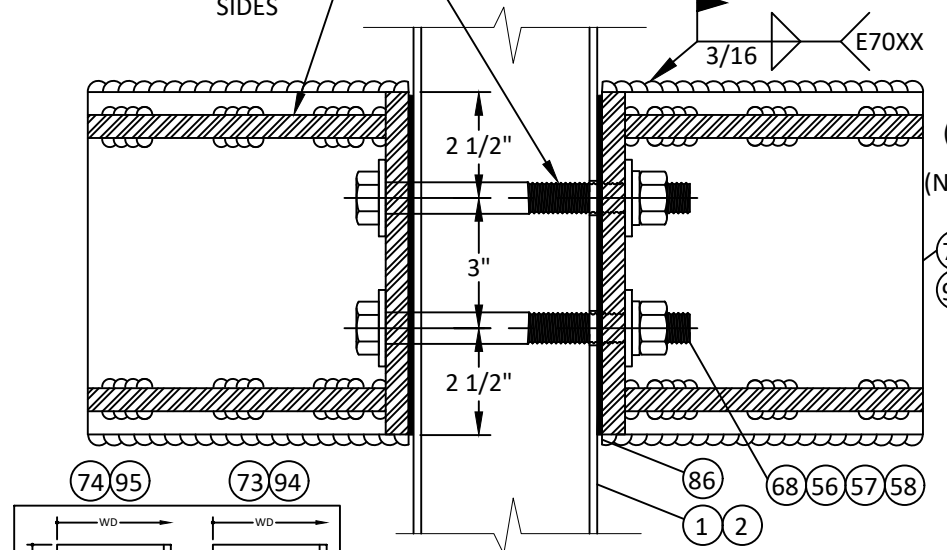
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6/2/2026 11:40 AM

- DEAD & WIND LOAD ANCHOR (A, C & H) NOTES:
- DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - DL = 1,219 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DL SHALL BE DETERMINED BY ENGINEER OF RECORD.
 - ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.
 - (2) BOLTS (ITEM #68) SHALL BE THROUGH BOLTED IN STANDARD HOLES AT DEAD LOAD ANCHORS AND MAX. 2" LONG SLOTTED HOLTES AT WIND LOAD ANCHORS.

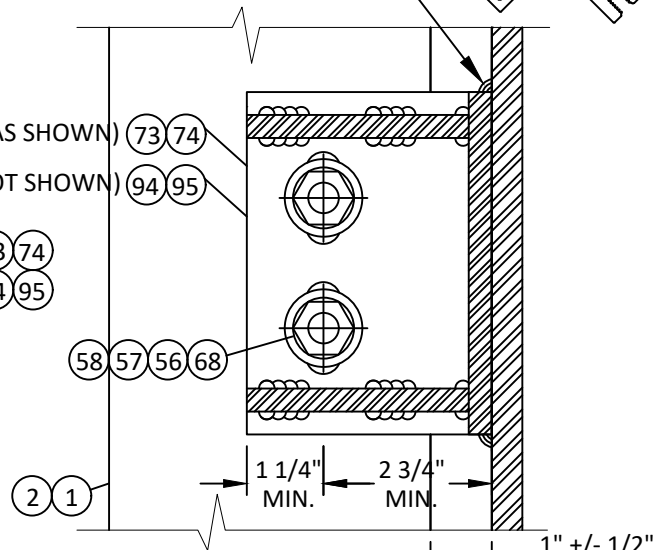


27
8.6
HORIZONTAL SECTION
ANGLED CORNER
WL OR DL ANCHOR

SEE NOTE 4
(2) 3/8" THICK A36 STEEL GUSSET PLATES W/ 1/4" X 1" FILLET WELDS AT 3" O.C., BOTH SIDES



CORNER MULL FRONT VIEW
WIND/DEAD LOAD ANCHOR
AT STEEL SUBSTRATE
LOW/ STANDARD/ HIGH PRESSURE CONNECTION



VERTICAL SECTION
WIND LOAD ANCHOR
(DEAD LOAD ANCHOR SIMILAR)
AT STEEL SUBSTRATE

LOW / STANDARD/HIGH PRESSURE CONNECTION

MAXIMUM DESIGN PRESSURE - LIMITED BY ANCHOR CAPACITY (+/- PSF)					
NOMINAL DIMENSIONS		WL ANCHOR TYPE	WL ANCHOR TYPE	DL+WL ANCHOR TYPE	DL+WL ANCHOR TYPE
WIDTH (IN.)	HEIGHT (IN.)	A, C & H 'UNCRAKED'	A, C & H 'CRACKED'	A, C & H 'UNCRAKED'	A, C & H 'CRACKED'
30	108	90	90	90	80
36		90	78	90	67
42		85	66	81	57
48		75	58	71	50
54		66	52	63	44
60		60	46	56	40
30	114	90	88	90	76
36		90	73	89	63
42		81	63	77	54
48		71	55	67	47
54		63	49	59	42
60		56	44	53	38
30	120	90	84	90	72
36		90	70	85	60
42		77	60	73	52
48		67	52	64	45
54		60	46	56	40
60		54	42	51	36
30	126	90	80	90	69
36		85	66	81	57
42		73	57	69	49
48		64	50	61	43
54		57	44	54	38
60		54	42	51	36
30	132	90	76	90	66
36		81	63	77	55
42		70	54	66	47
48		61	47	58	41
54		54	42	51	36
60		54	42	51	36
30	138	90	73	89	63
36		78	61	74	52
42		67	52	63	45
48		58	45	55	39
54		54	42	51	36
60		54	42	51	36
30	144	90	70	85	60
36		75	58	71	50
42		64	50	61	43
48		56	43	53	37
54		54	42	51	36
60		54	42	51	36
30	150	86	67	82	58
36		72	56	68	48
42		61	48	58	41
48		54	42	51	36
54		54	42	51	36
60		54	42	51	36



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inspires™

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

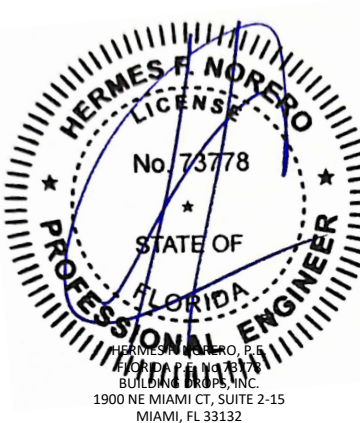
TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM
WIND LOAD / DEAD LOAD
ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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



HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL13433

DATE:
7.18.17

DWG. BY:
AR/RV

CHK. BY:
HFN

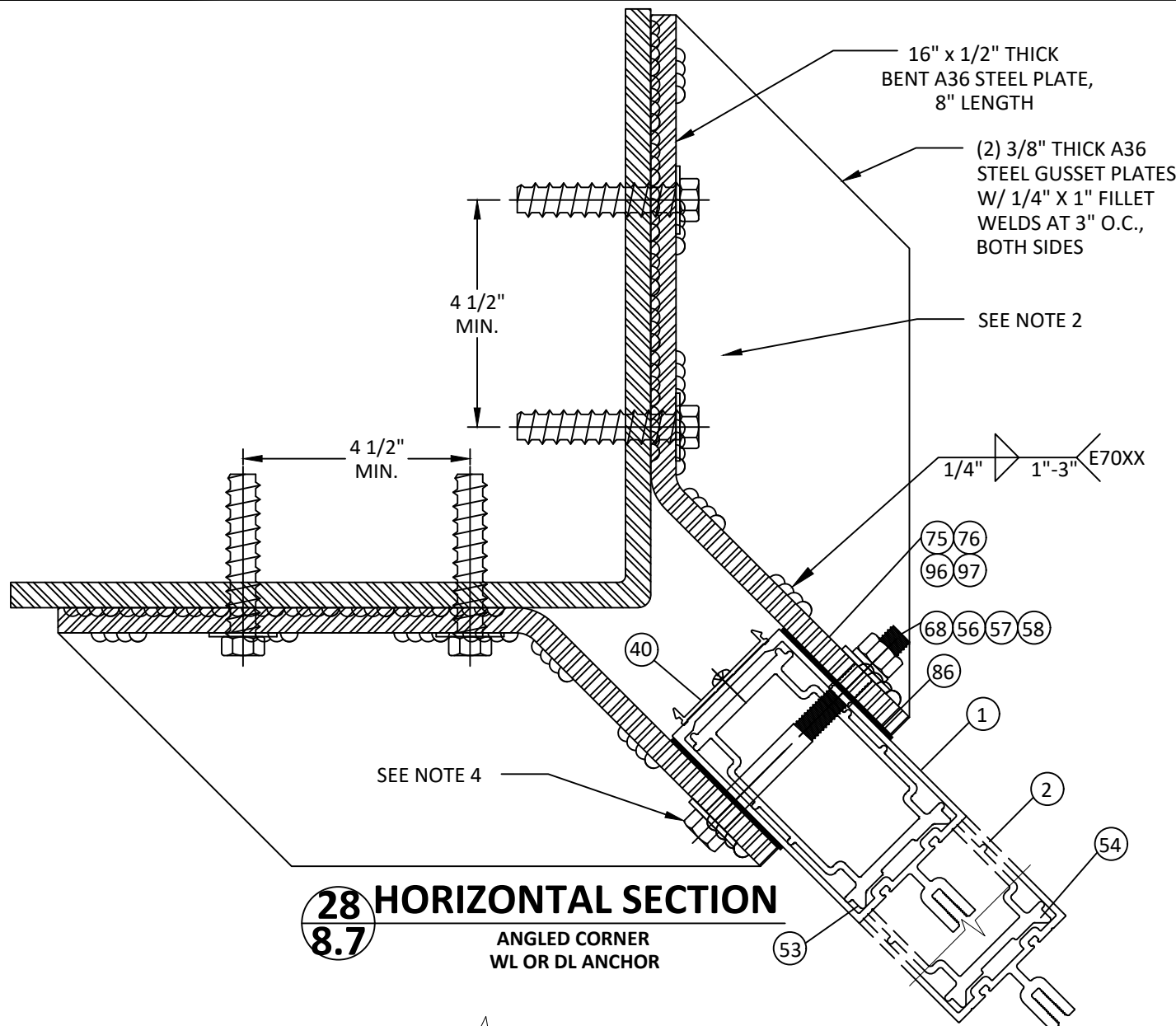
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DWG. #:
YKK206

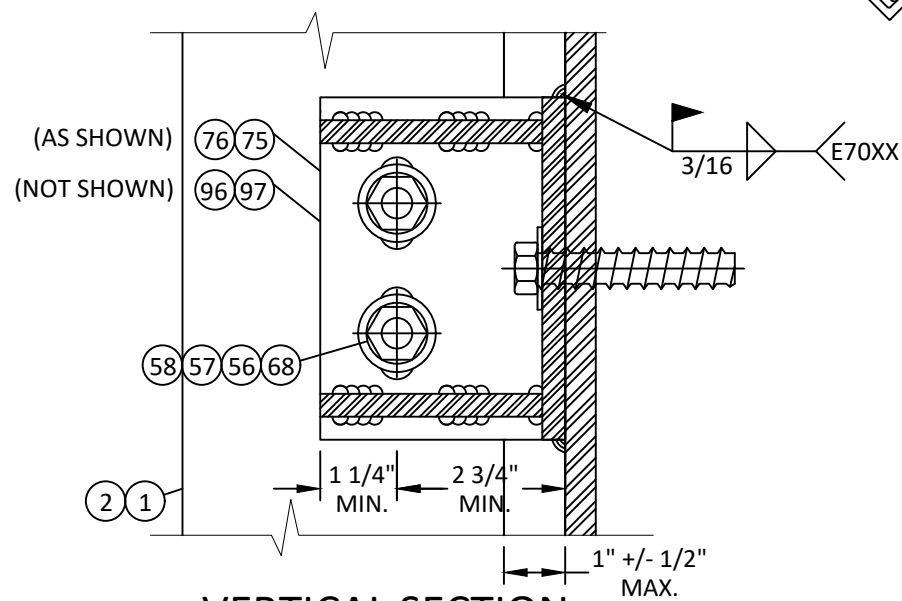
SECTION:
8.6

[Page 29 of 35]

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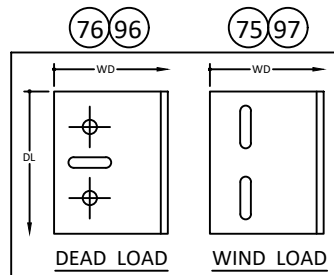
28 HORIZONTAL SECTION
8.7 ANGLED CORNER
WL OR DL ANCHOR



VERTICAL SECTION

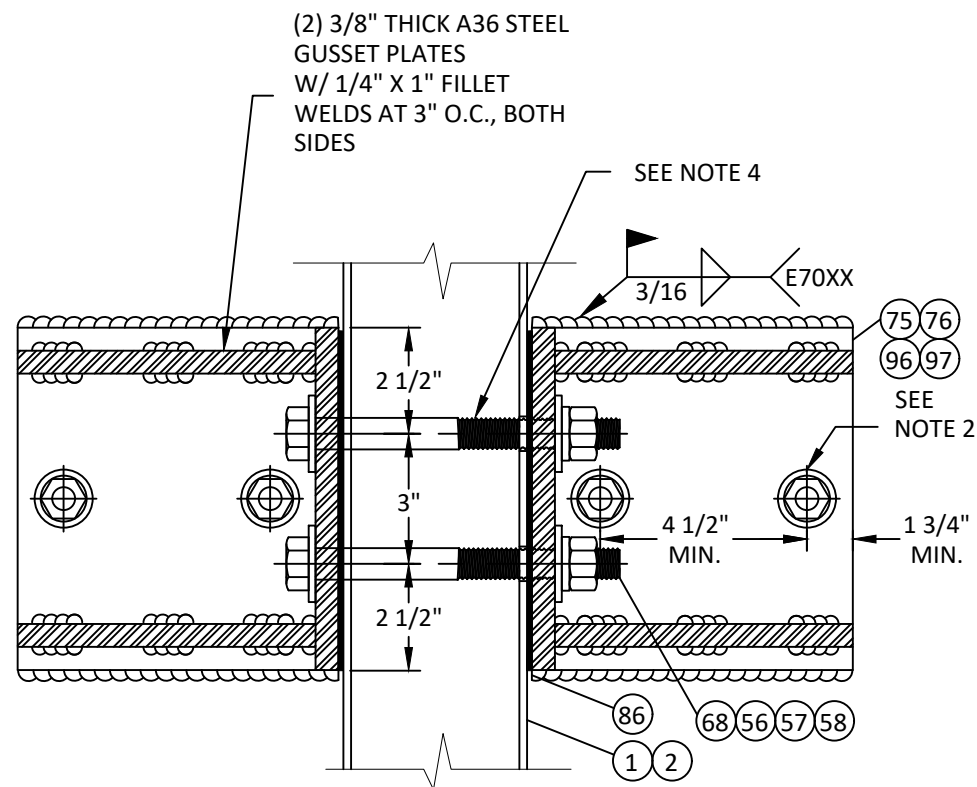
WIND LOAD ANCHOR
(DEAD LOAD ANCHOR SIMILAR)
AT STEEL SUBSTRATE

LOW / STANDARD/HIGH PRESSURE CONNECTION



DEAD & WIND LOAD ANCHOR (A, C & H) NOTES:

- DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - DL = 1,219 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DL SHALL BE DETERMINED BY ENGINEER OF RECORD.
- (2) 1/2" HH GR. 5 OR ASTM A325 THREADED BOLTS PER ANGLE
 - MIN. FULL ENGAGEMENT WITH NUT & WASHER OR
 - THREADED INTO TAPPED HOLE W/ MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE
 - MIN. 1 1/2" EDGE DISTANCE.
 - MIN. 1/4" THICK STEEL
- ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.
- (2) BOLTS (ITEM #68) SHALL BE THROUGH BOLTED IN STANDARD HOLES AT DEAD LOAD ANCHORS AND MAX. 2" LONG SLOTTED HOLTES AT WIND LOAD ANCHORS.



CORNER MULL FRONT VIEW

WIND/DEAD LOAD ANCHOR
AT STEEL SUBSTRATE
LOW/ STANDARD/ HIGH PRESSURE CONNECTION



YKK AP AMERICA

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

TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM

WIND LOAD / DEAD LOAD
ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #:

FL13433

DATE: **7.18.17**

DWG. BY:

AR/RV

CHK. BY:

HFN

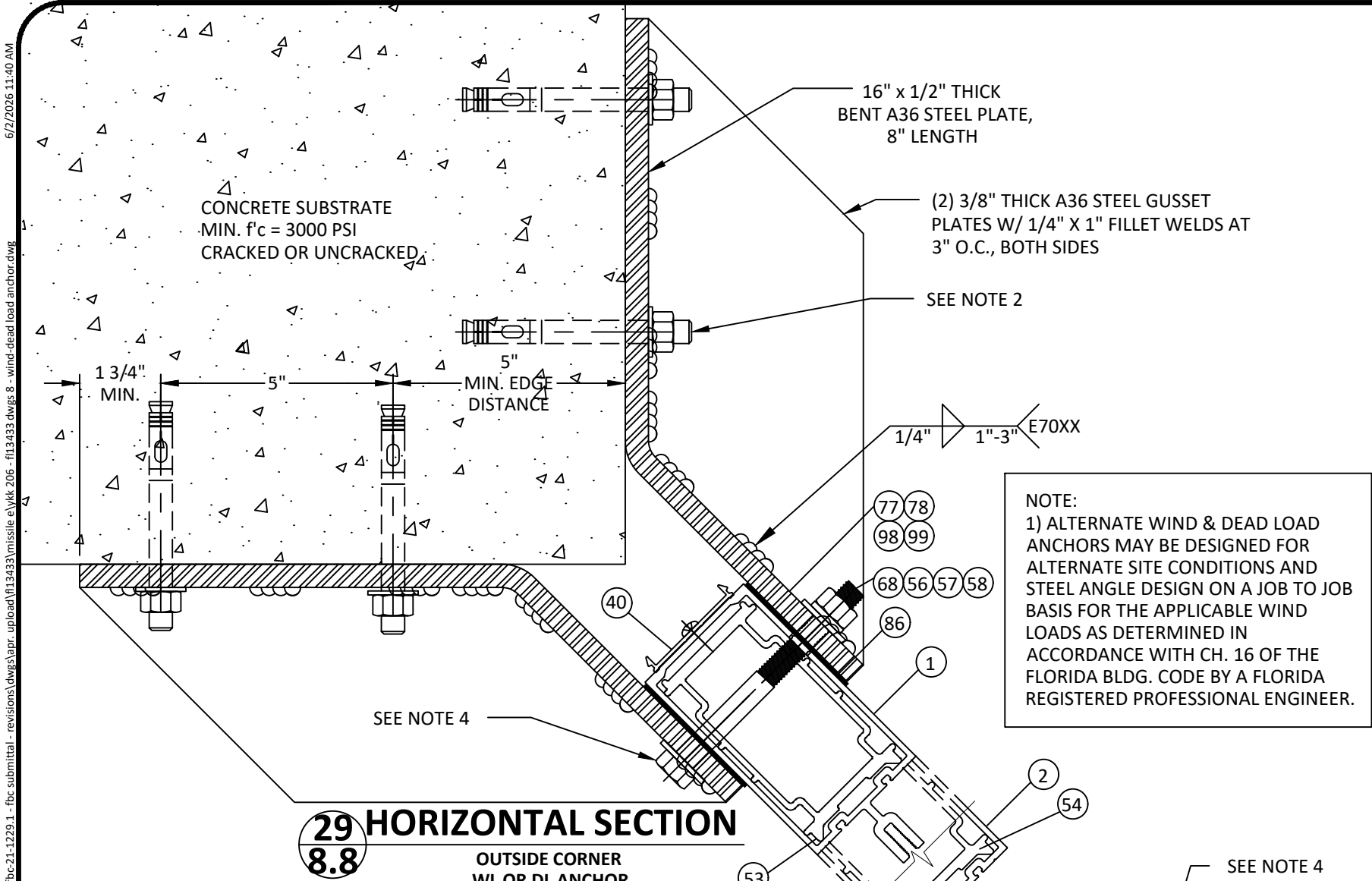
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DWG. #: **YKK206**

SECTION:

8.7

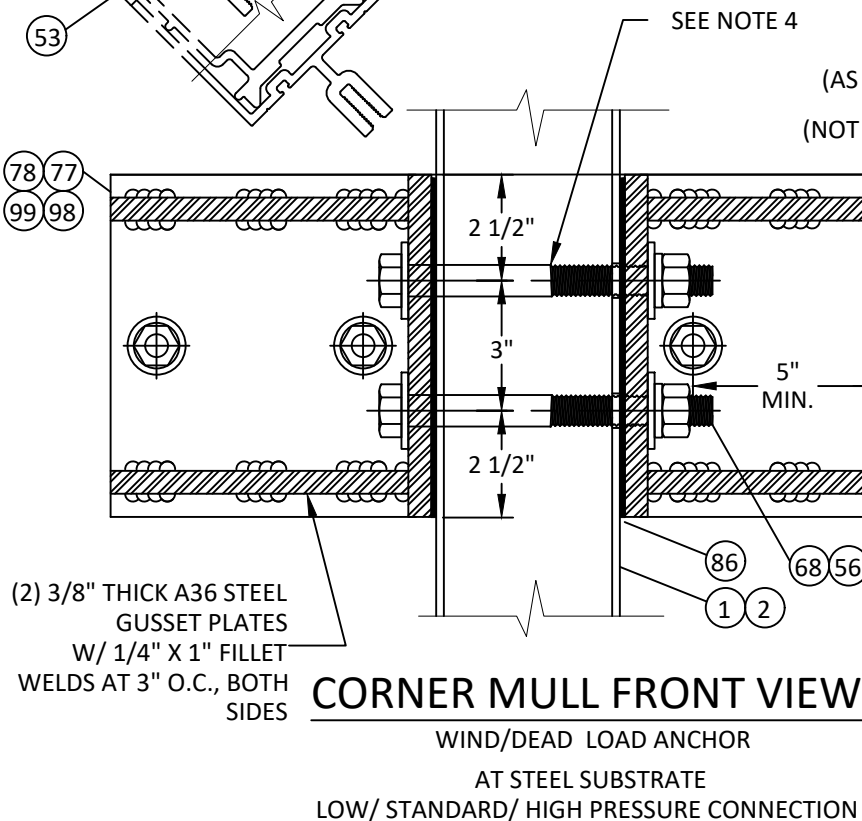
[Page 30 of 35]



29 HORIZONTAL SECTION
8.8 OUTSIDE CORNER
WL OR DL ANCHOR

DEAD & WIND LOAD ANCHOR (A, C & H) NOTES:

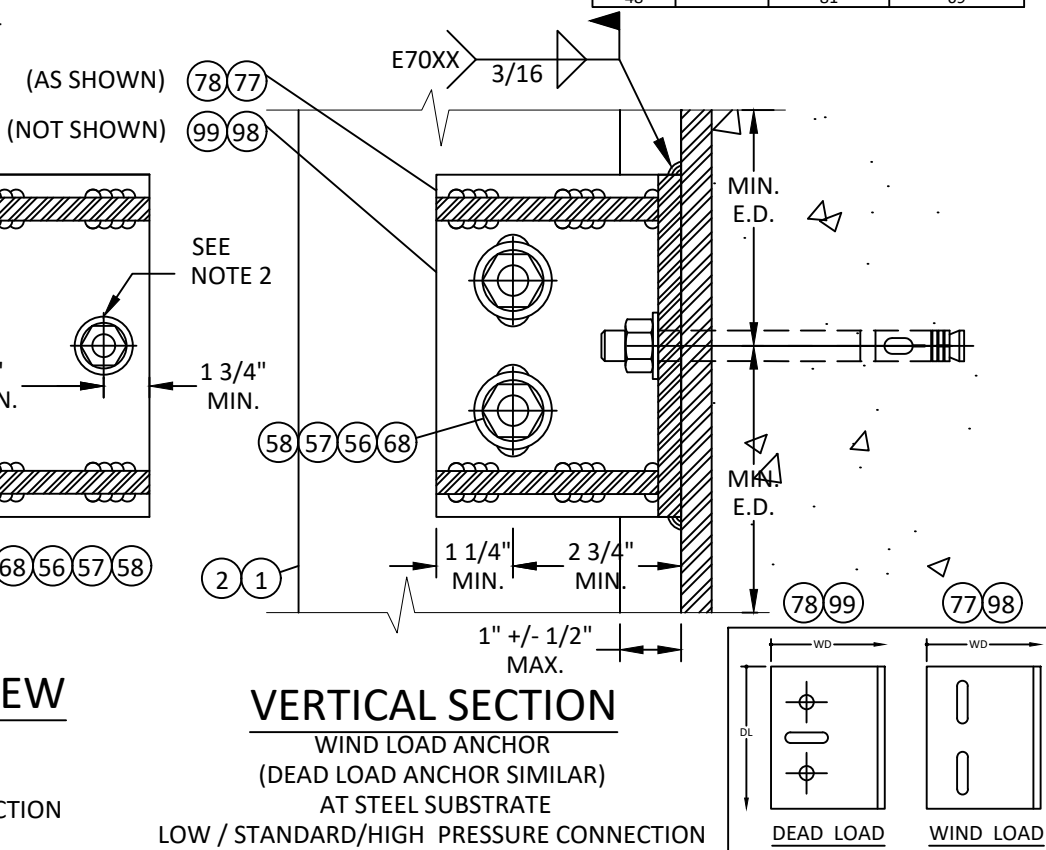
- DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - DL = 1,219 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DL SHALL BE DETERMINED BY ENGINEER OF RECORD.
- (2) 1/2" HILTI KWIK BOLT TZ ANCHORS PER ANGLE
 - MIN. EMBEDMENT = 3 5/8"
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 4 1/2"
 - MIN. 3000 PSI CONCRETE 'CRACKED' OR 'UNCRAKED'(2) 1/2" DEWALT SCREW-BOLT+ PER ANGLE
 - MIN. EMBEDMENT = 4 1/4"
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 5"
 - MIN. 3000 PSI CONCRETE 'UNCRAKED'(2) 3/8" SIMPSON TITEN HD PER ANGLE
 - MIN. EMBEDMENT = 3 1/4"
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 3 5/8"
 - MIN. 4000 PSI CONCRETE 'CRACKED' OR 'UNCRAKED'
- FOR SLABS LESS THAN 8" IN THICKNESS, DESIGN MAY BE PROVIDED ON JOB TO JOB BASIS FOR REVIEW & APPROVAL BY AHJ
- (2) BOLTS (ITEM #54) SHALL BE THROUGH BOLTED IN STANDARD HOLES AT DEAD LOAD ANCHORS AND MAX. 2" LONG SLOTTED HOLTES AT WIND LOAD ANCHORS.



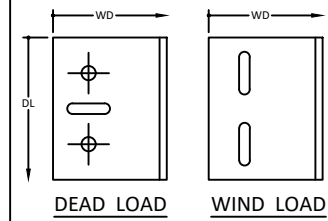
CORNER MULL FRONT VIEW
WIND/DEAD LOAD ANCHOR
AT STEEL SUBSTRATE
LOW/ STANDARD/ HIGH PRESSURE CONNECTION

WIND LOAD MAXIMUM DESIGN PRESSURE - LIMITED BY ANCHOR CAPACITY (+/- PSF)			
NOMINAL DIMENSIONS		ANCHOR TYPE A, C & H 'UNCRAKED'	ANCHOR TYPE A, C & H 'CRACKED'
WIDTH (IN.)	HEIGHT (IN.)		
30	108	90	90
36		90	90
42		90	90
48		90	90
54		90	90
60	114	90	85
30		90	90
36		90	90
42		90	90
48		90	90
54	120	90	89
60		90	80
30		90	90
36		90	90
42		90	90
48	126	90	90
54		90	81
60		90	90
30		90	90
36		90	90
42	132	90	90
48		90	87
54		89	77
60		90	90
30		90	90
36	138	90	90
42		90	90
48		90	83
54		90	90
60		90	90
30	144	90	90
36		90	90
42		90	80
48		90	90
54	150	90	90
60		90	87
30		90	90
36		90	90
42		90	87
48		88	76

DEAD LOAD MAXIMUM DESIGN PRESSURE - LIMITED BY ANCHOR CAPACITY (+/- PSF)			
NOMINAL DIMENSIONS		ANCHOR TYPE A, C & H 'UNCRAKED'	ANCHOR TYPE A, C & H 'CRACKED'
WIDTH (IN.)	HEIGHT (IN.)		
30	108	90	90
36		90	90
42		90	90
48		90	90
54		90	85
60	114	90	77
30		90	90
36		90	90
42		90	90
48		90	90
54	120	90	81
60		85	73
30		90	90
36		90	90
42		90	90
48	126	90	90
54		90	82
60		81	69
30		90	90
36		90	90
42	132	90	90
48		90	79
54		81	70
60		90	90
30		90	90
36	138	90	90
42		90	86
48		88	75
54		90	90
60		90	90
30	144	90	90
36		90	82
42		90	90
48		84	72
54	150	90	90
60		90	90
30		90	90
36		90	90
42		90	79
48		81	69



VERTICAL SECTION
WIND LOAD ANCHOR
(DEAD LOAD ANCHOR SIMILAR)
AT STEEL SUBSTRATE
LOW / STANDARD/HIGH PRESSURE CONNECTION



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

TITLE: **YHC - 300 OG (MISSILE E) CURTAIN WALL SYSTEM**
WIND LOAD / DEAD LOAD ANCHOR DETAILS

PREPARED BY: **BUILDING DROPS, INC.**
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL13433**

DATE: **7.18.17**

DWG. BY: AR/RV	CHK. BY: HFN
-----------------------	---------------------

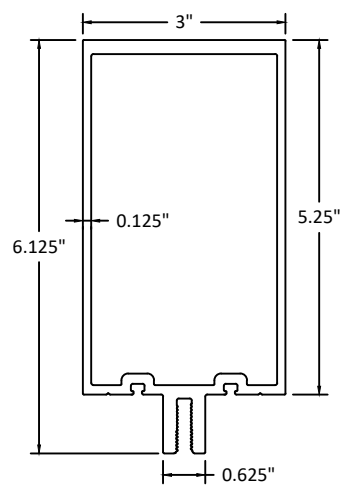
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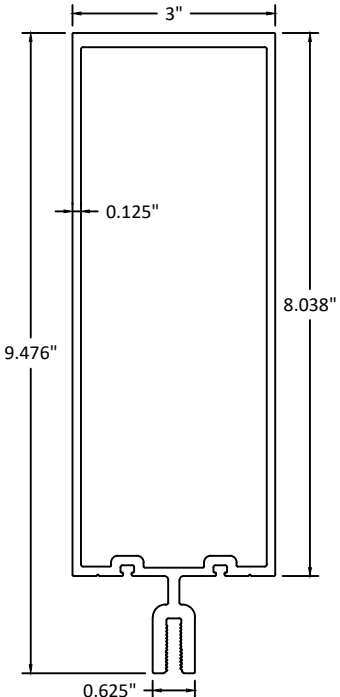
SECTION: **8.8**

[Page 31 of 35]

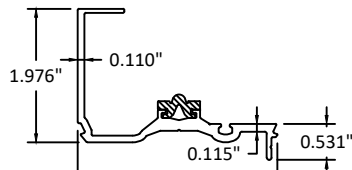
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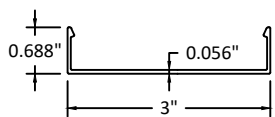
① VERTICAL MULLION (INS)



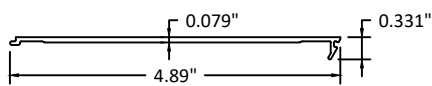
② HEAVY DUTY VERTICAL MULLION (INS)



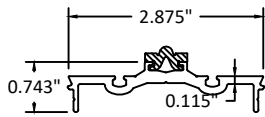
③ PERIMETER PRESSURE PLATE (INS)



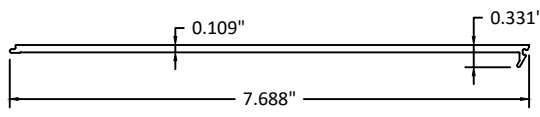
⑤ FACE COVER



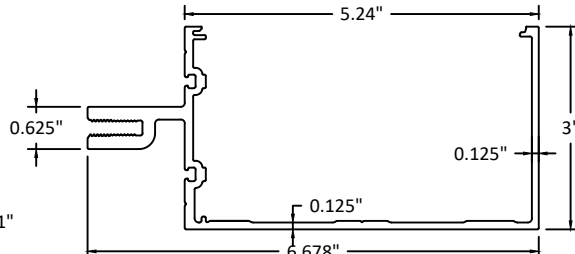
⑥ FLUSH FILLER



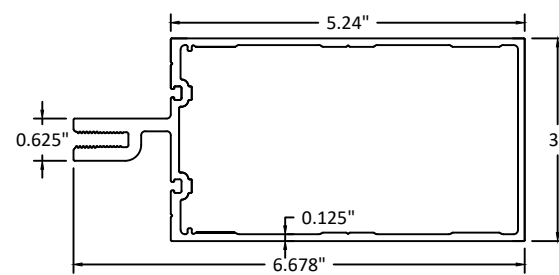
④ PRESSURE PLATE (INS)



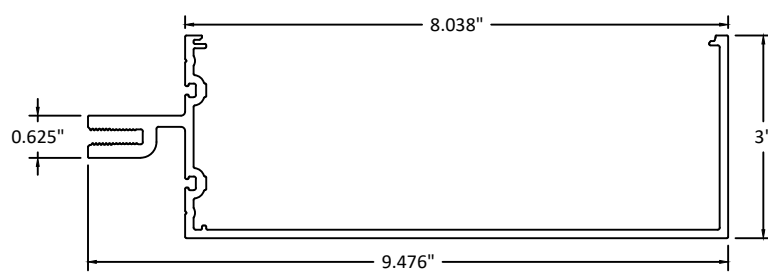
⑦ FLUSH FILLER (DEEP MULL)



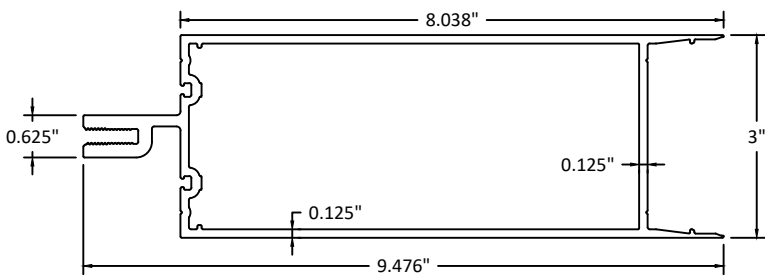
⑧ OPEN BACK SILL (INS)



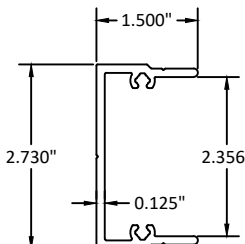
⑩ HORIZONTAL (INS)



⑨ HEAVY DUTY OPEN BACK HEAD/HORIZONTAL/SILL (INS)



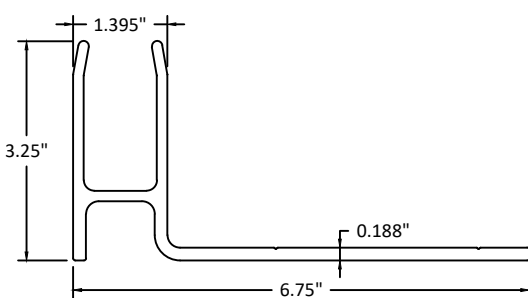
⑪ HEAVY DUTY HORIZONTAL (INS)



⑮ SHEAR BLOCK (STD)

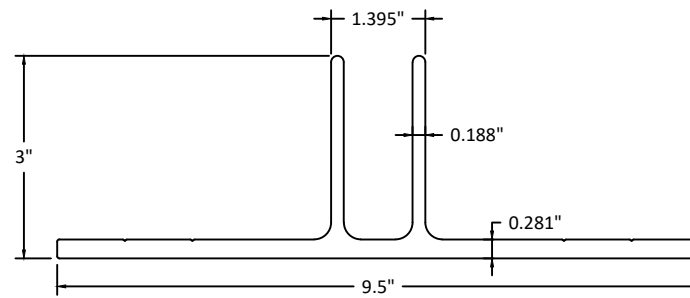
⑲ SHEAR BLOCK (HD)

⑧① SHEAR BLOCK (HD HORIZ.)



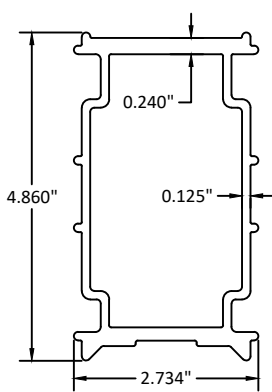
⑮⑥ JAMB F-ANCHOR (STD)

⑧② JAMB F-ANCHOR (HD)



⑮⑦ MULLION T-ANCHOR (STD)

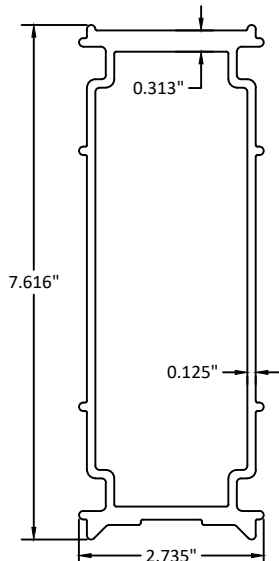
⑧③ MULLION T-ANCHOR (HD)



⑮⑧ MULLION ANCHOR SLEEVE (STD)
(3" LONG AT TOP & BOTTOM)

⑤① MULLION SPLICE SLEEVE (STD)
(6" LONG AT SPLICE)

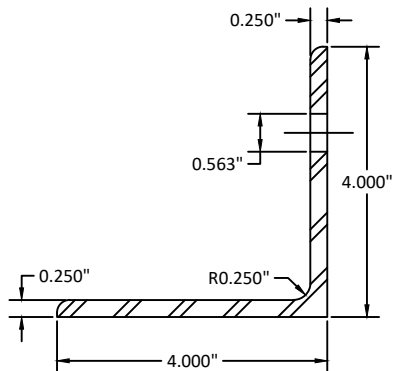
⑤③ MULLION SLEEVE (STD)
(29" LONG AT ANCHOR)



⑮⑨ MULLION ANCHOR SLEEVE (HD)
(3" LONG TOP & AT BOTTOM)

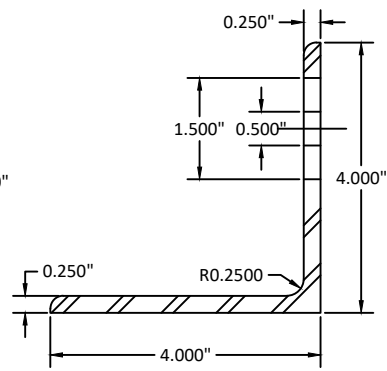
⑤② MULLION SPLICE SLEEVE (HD)
(6" LONG AT AT SPLICE)

⑤④ MULLION SLEEVE (HD)
(29" LONG AT MID-POINT ANCHOR)



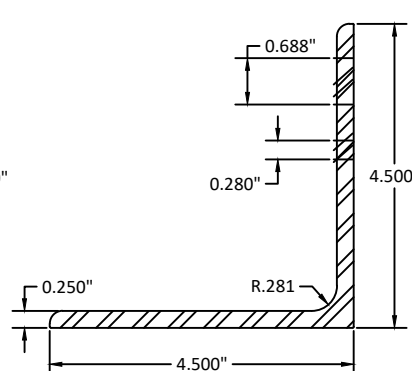
⑮②① WIND LOAD ANCHOR
(STANDARD MULLION)

⑧⑦ WIND LOAD ANCHOR
(HEAVY DUTY MULLION)



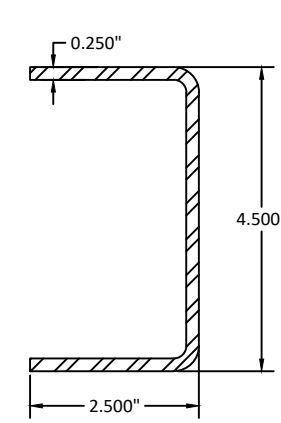
⑮②② DEAD LOAD ANCHOR
(STANDARD MULLION)

⑧⑧ DEAD LOAD ANCHOR
(HEAVY DUTY MULLION)

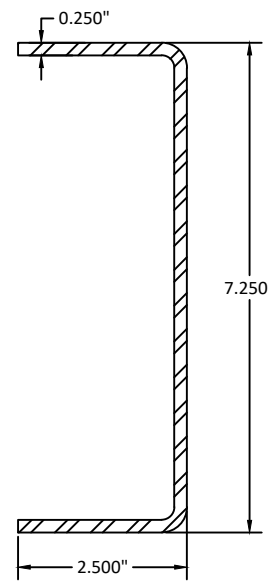


⑮②③ DEAD LOAD ANCHOR
(STANDARD MULLION)

⑧⑨ DEAD LOAD ANCHOR
(HEAVY DUTY MULLION)



⑮③② REINFORCEMENT CHANNEL



⑮③③ REINFORCEMENT CHANNEL



YKK AP AMERICA

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

TITLE: YHC - 300 OG (MISSILE E)
CURTAIN WALL SYSTEM

COMPONENTS

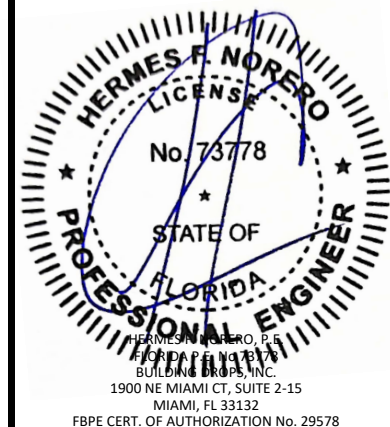
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #:

FL13433

DATE: 7.18.17

DWG. BY: AR/RV
CHK. BY: HFN

SCALE: NTS

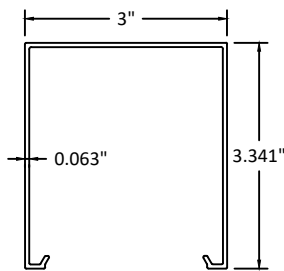
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SECTION:

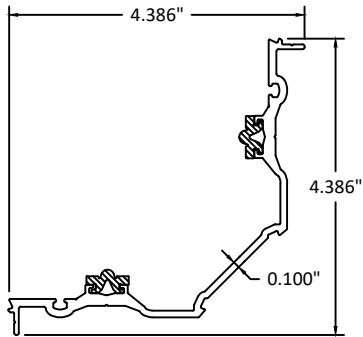
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[Page 32 of 35]

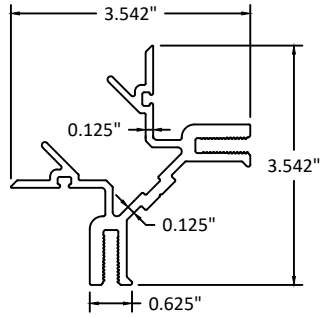
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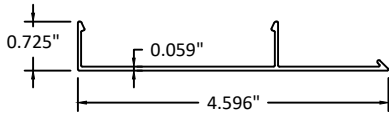
34 90° CORNER INTERIOR COVER (HD)



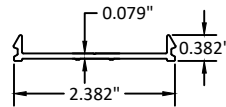
35 90° CORNER PRESSURE PLATE (INS)



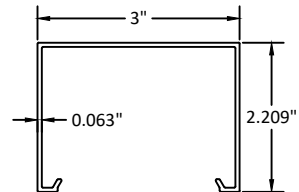
37 90° CORNER ADAPTOR (INS)



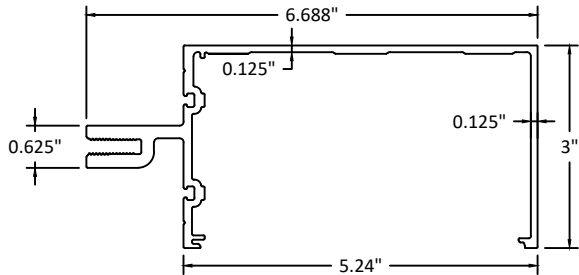
39 90° CORNER FACE COVER (INS)



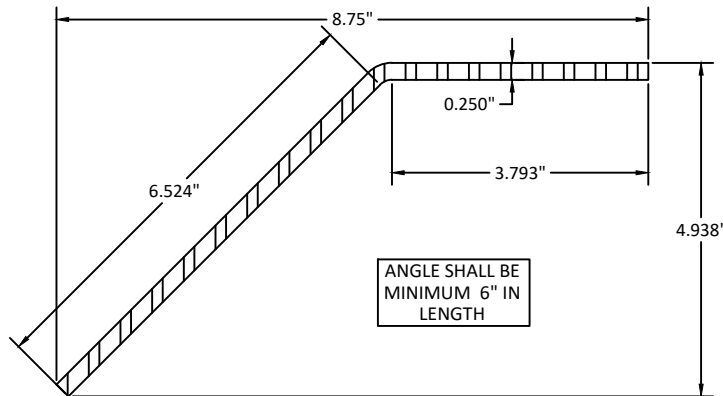
40 90° CORNER INTERIOR COVER BASE



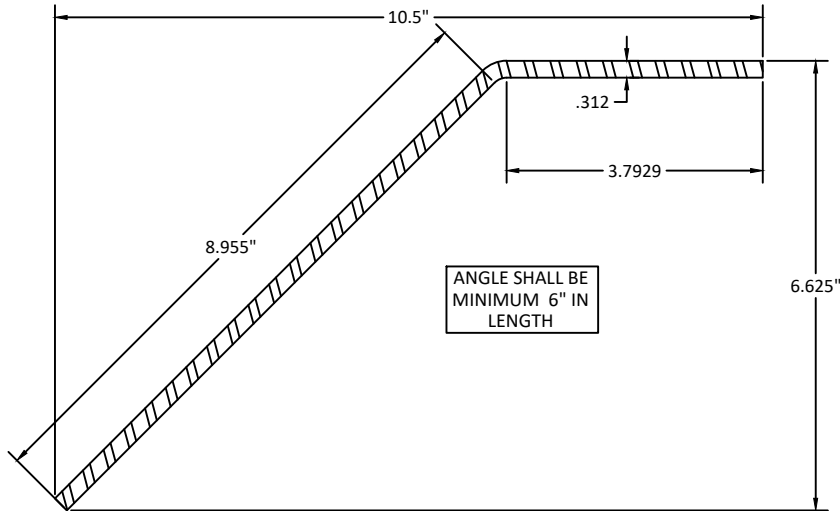
41 90° CORNER INTERIOR COVER



100 OPEN BACK HEAD/ HORIZONTAL (INS)

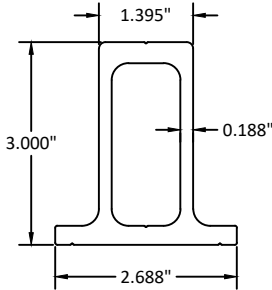


43 DEAD LOAD ANCHOR FOR 90° CORNER



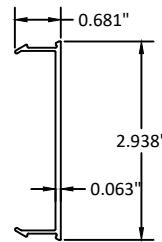
46 WIND LOAD ANCHOR FOR 90° CORNER

44 DEAD LOAD ANCHOR FOR 90° CORNER

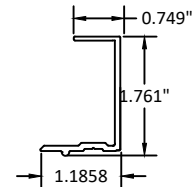


47 S-ANCHOR (STD)

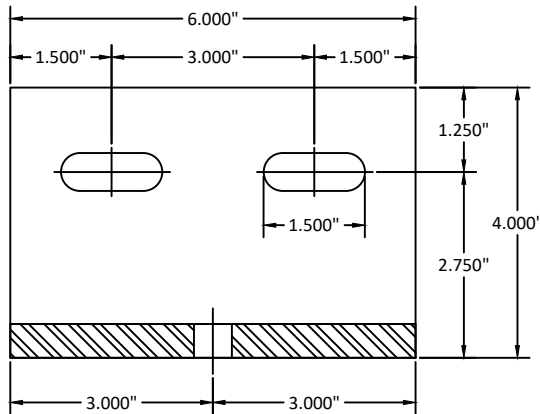
36 S-ANCHOR (HD)



62 INTERIOR MULLION COVER

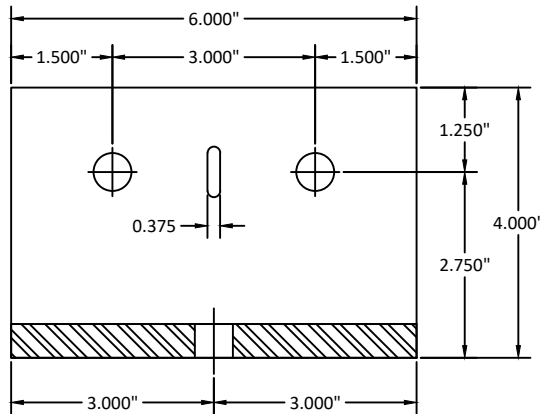


63 POCKET FILLER (INS)



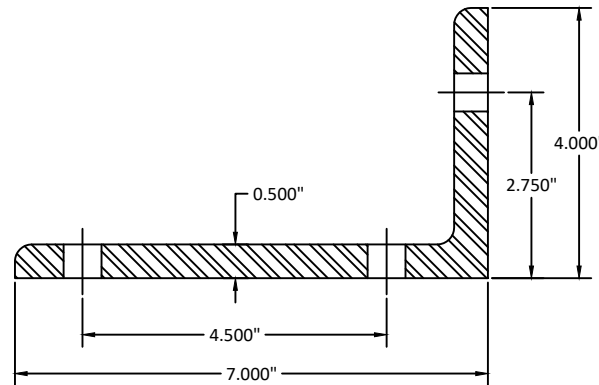
69 WIND LOAD ANCHOR (STANDARD MULLION)

71 WIND LOAD ANCHOR (STANDARD MULLION)



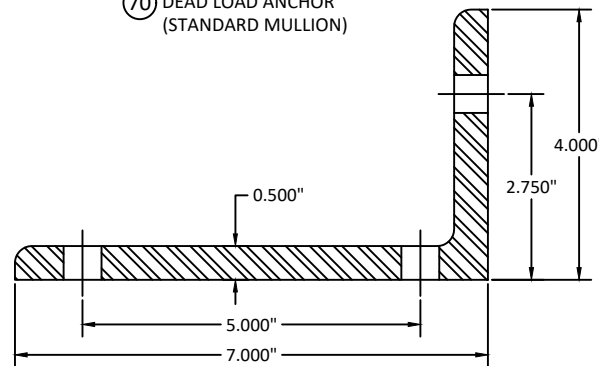
70 DEAD LOAD ANCHOR (STANDARD MULLION)

72 DEAD LOAD ANCHOR (STANDARD MULLION)



69 WIND LOAD ANCHOR (STANDARD MULLION)

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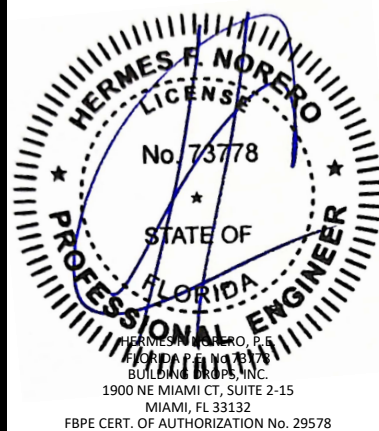
PREPARED BY: BUILDING DROPS, INC.

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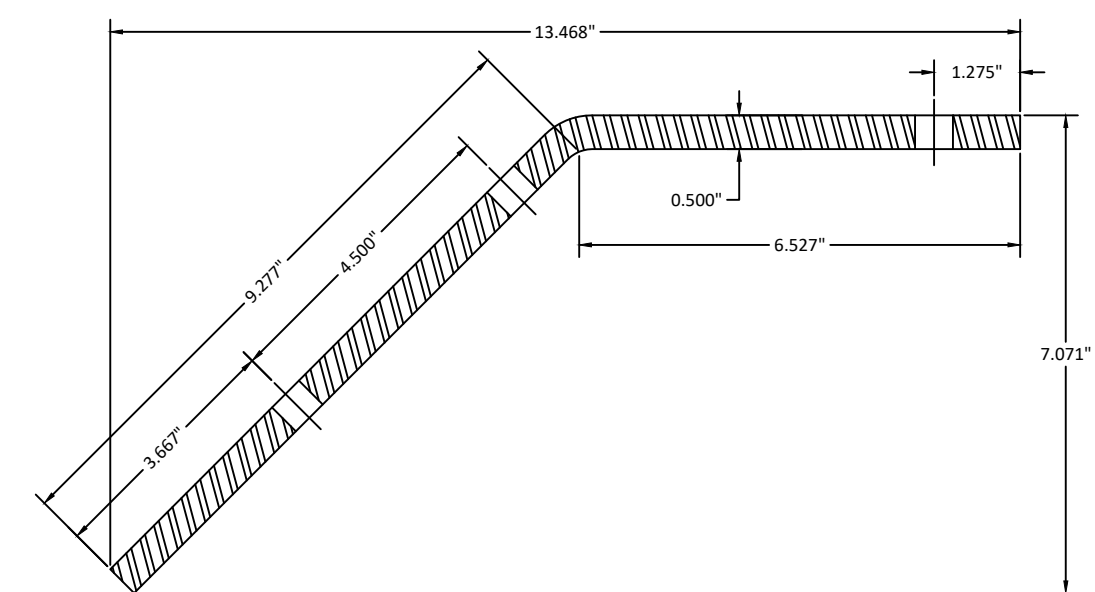
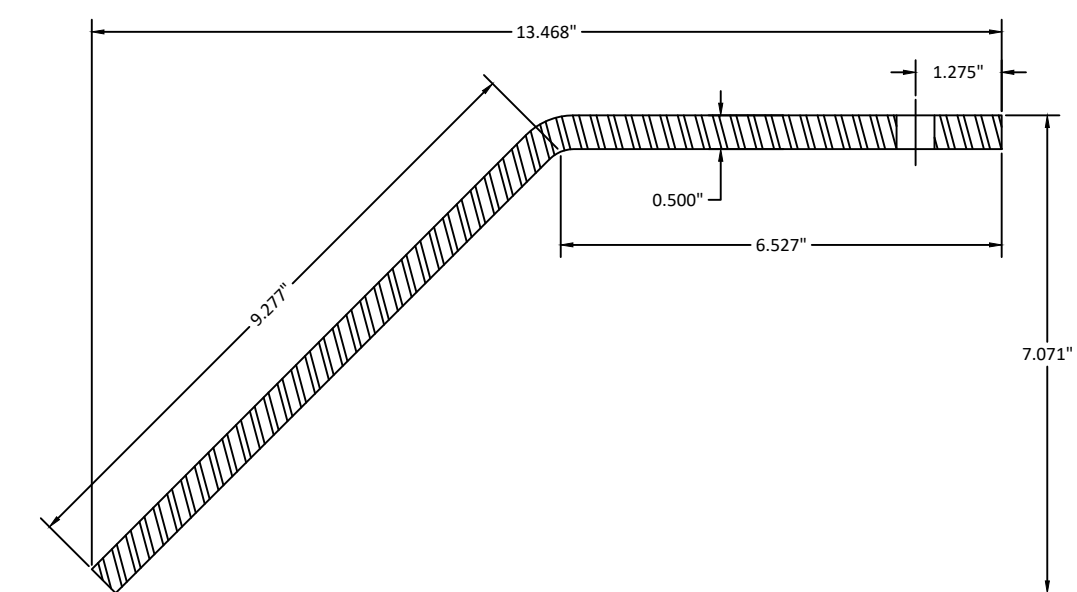
REMARKS	BY	DATE
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FL #:	FL13433
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DWG. BY:	AR/RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK206
SECTION:	9.1

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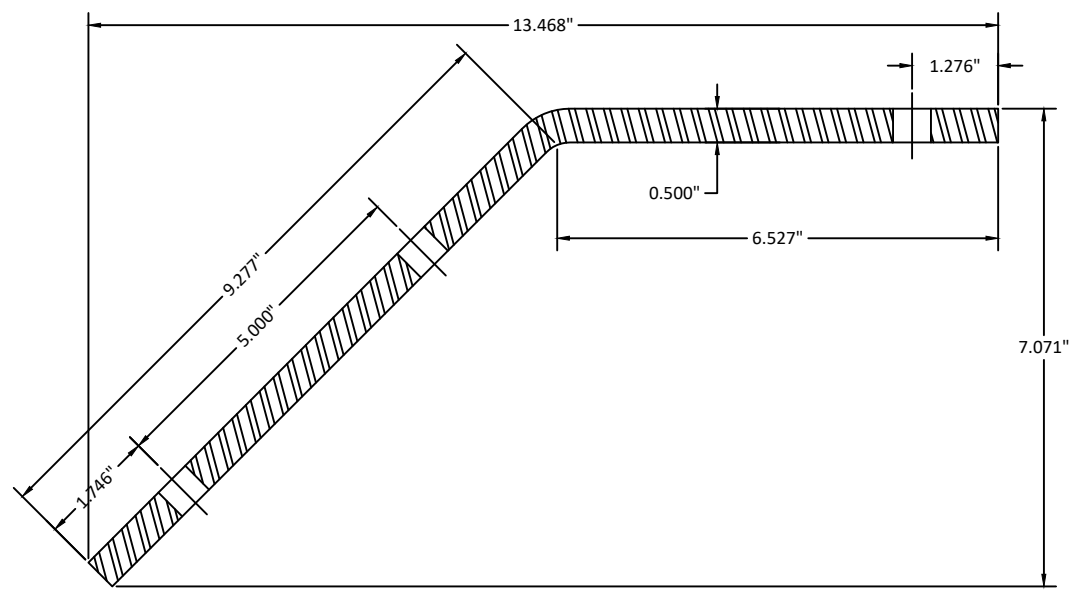
- 73

WIND LOAD ANCHOR
(STANDARD MULLION)
- 74

DEAD LOAD ANCHOR
(STANDARD MULLION)
- 94

WIND LOAD ANCHOR
(HD MULLION)
- 95

DEAD LOAD ANCHOR
(HD MULLION)



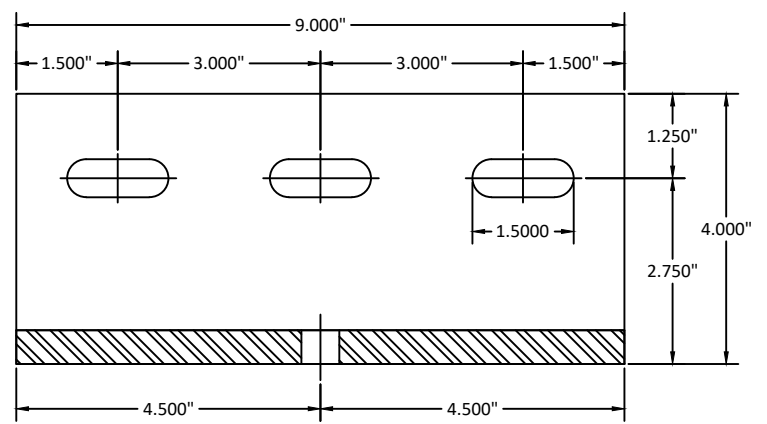
- 77

WIND LOAD ANCHOR
(STANDARD MULLION)
- 78

DEAD LOAD ANCHOR
(STANDARD MULLION)
- 98

WIND LOAD ANCHOR
(HD MULLION)
- 99

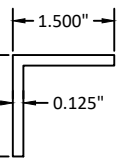
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(HD MULLION)



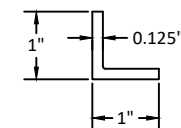
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WIND LOAD ANCHOR
(HD MULLION)
- 92

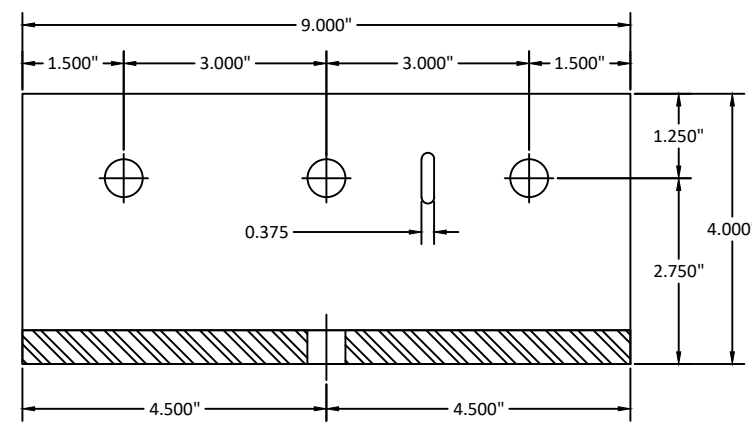
WIND LOAD ANCHOR
(HD MULLION)



102 1-1/2" X 1-1/2" X 1/8" ANGLE



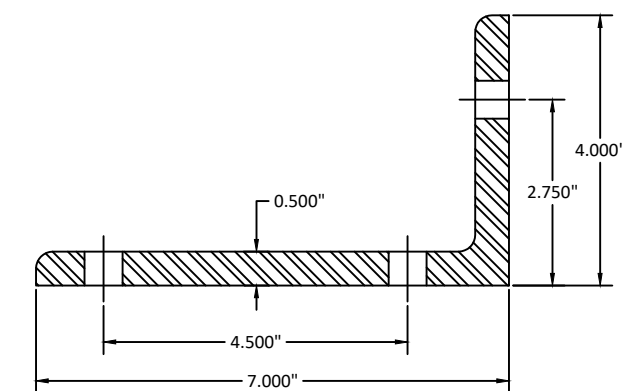
103 1" X 1" X 1/8" ANGLE



- 91

DEAD LOAD ANCHOR
(HD MULLION)
- 93

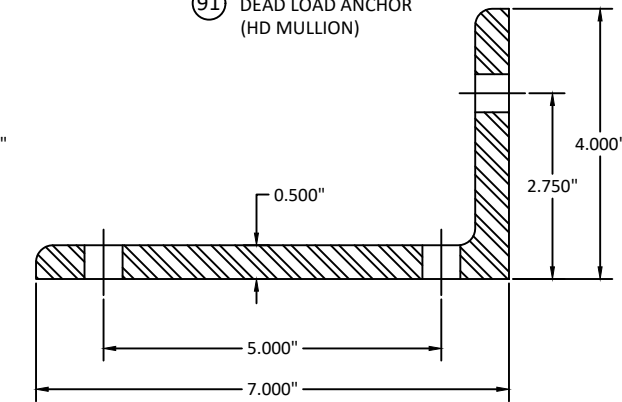
DEAD LOAD ANCHOR
(HD MULLION)



- 90

WIND LOAD ANCHOR
(HD MULLION)
- 91

DEAD LOAD ANCHOR
(HD MULLION)



- 92

WIND LOAD ANCHOR
(HD MULLION)
- 93

DEAD LOAD ANCHOR
(HD MULLION)

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1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021

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YHC - 300 OG (MISSILE E)
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BD

BUILDING DROPS

REMARKS	BY	DATE
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HERMES F. NORERO

LICENSE

No. 73778

STATE OF FLORIDA

PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL13433

DATE: 7.18.17

DWG. BY: AR/RV

CHK. BY: HFN

SCALE: NTS

DWG. #: YKK206

SECTION:

9.2

[Page 34 of 35]

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BILL OF MATERIALS			
ITEM	PART NO.	DESCRIPTION	MATERIAL
1	E9-3101	VERTICAL MULLION (INS)	6063-T6
2	E9-3183	HD VERTICAL MULLION (INS)	6063-T6
3	AS-3178	PERIMETER PRESSURE PLATE (INS)	6063-T5
4	AS-3172	PRESSURE PLATE (INS)	6063-T5
5	E9-3161	FACE COVER	6063-T5
6	E9-3162	FLUSH FILLER	6063-T5
7	E9-3188	FLUSH FILLER (DEEP MULL)	6063-T6
8	E9-3104	OPEN BACK SILL (INS)	6063-T5
9	E9-3187	HD OPEN BACK HEAD/HORIZ./SILL (INS)	6063-T6
10	E9-3102	HORIZONTAL (INS)	6063-T5
11	E9-3185	HD HORIZONTAL (INS)	6063-T6
12	E2-0379	EXT/INT GLAZING GASKET	EPDM
13	E2-0353	INTERIOR GLAZING SILICONE SPACER	EPDM
14	E2-0611	SETTING BLOCK (INS)	EPDM (85±5)
15	E1-3001	SHEAR BLOCK (STD)	6063-T5
16	E1-3004	JAMB F ANCHOR (STD)	6063-T5
17	E1-3003	MULLION T ANCHOR (STD)	6061-T6
18	E1-3006	MULLION ANCHOR SLEEVE (STD) (3" LONG @ TOP & BOTTOM)	6063-T5
19	E1-3033	MULLION ANCHOR SLEEVE (HD) (3" LONG @ TOP & BOTTOM)	6063-T5
20	E1-1204	WINDLOAD ANCHOR (STD)	A36 STEEL
21	E1-1205	DEADLOAD ANCHOR (STD)	A36 STEEL
22	-	DEAD LOAD (NOT BY YKK AP)	A36 STEEL
23	HD-2520-W3-SS	1/4"-20 X 1-1/4" HWHMS	STAINLESS STEEL
24	FC-1220	#12 X 1-1/4" FHSMS TYPE AB	ZINC PLATED STEEL
25	HF-2510-W1	#1/4"-20 X 5/8" HWHS TYPE F	ZINC PLATED STEEL
26	PC-1010	#10 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL
27	HM-5072	1/2"-13 X 4-1/2" HHMS BOLT (GR 5)	ZINC PLATED STEEL
28	PC-1210	#12 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL
29	E1-3040	SHEAR BLOCK (HD)	6063-T5
30	TEK-1012	#10-16 X 3/4" TEK HWHS	ZINC PLATED STEEL
31	PC-1010	#10 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL
32	E1-0175	REINFORCEMENT CHANNEL (2-1/2" X 4-1/2" X 1/4")	A36 STEEL
33	E1-3031	REINFORCEMENT CHANNEL (2-1/2" X 7-1/4" X 1/4")	A36 STEEL
34	E1-3160	90° CORNER INTERIOR COVER (HD)	6063-T5
35	AS-3175	90° CORNER PRESSURE PLATE (INS)	6063-T5
36	E1-3038	S ANCHOR (HD)	6063-T6
37	E9-3145	90° CORNER ADAPTOR (INS)	6063-T5
38	E1-3010	MULLION END CAP (INS)	6063-T5
39	E9-3174	90° CORNER FACE COVER (INS)	6063-T5
40	E9-1280	90° CORNER INTERIOR COVER BASE	6063-T5
41	E9-3165	90° CORNER INTERIOR COVER	6063-T5
42	PC-1008	#10 X 1/2" PHSMS TYPE AB	ZINC PLATED STEEL
43	E1-0190	DEADLOAD ANCHOR FOR 90° CORNER	A36 STEEL
44	E1-1282	DEADLOAD ANCHOR FOR 90° CORNER	A36 STEEL
45	E1-0191	WINDLOAD ANCHOR FOR 90° CORNER	A36 STEEL
46	E1-1283	WINDLOAD ANCHOR FOR 90° CORNER	A36 STEEL
47	E1-3039	S ANCHOR (HD)	6063-T6
48	E2-0386	ISOLATOR TAPE	PVC SPONGE
51	E1-3005	MULLION SPLICE SLEEVE (STD) (6" LONG AT SPLICE)	6063-T5
52	E1-3037	MULLION SPLICE SLEEVE (HD) (6" LONG AT SPLICE)	6063-T5
53	E1-3007	MULLION REINF. SLEEVE (STD) (29" LONG AT ANCHOR)	6063-T5

54	E1-3030	MULLION REINF. SLEEVE (HD) (29" LONG AT ANCHOR)	6063-T5
55	FC-1410	#14 X 5/8" FHSMS TYPE AB	ZINC PLATED STEEL
56	HM-5000	1/2"-13 NUT HHMS	ZINC PLATED STEEL
57	WS-5000	1/2" LOCK WASHER	ZINC PLATED STEEL
58	WW-5000	1/2" FLAT WASHER	ZINC PLATED STEEL
59	FF-0808	#8-32 X 1/2" FHMS TYPE F	ZINC PLATED STEEL
60	N/A	#8-32 X 3-1/2" FHSMSM @ 16" OC	ZINC PLATED STEEL
61	FC-1212	#12 X 3/4" FHSMS TYPE AB	ZINC PLATED STEEL
62	E9-3186	INTERIOR MULLION COVER	6063-T6
63	E9-3110	POCKET FILLER (INS)	6063-T5
65	PC-1008	#10 X 1/2" PHSMS TYPE AB	ZINC PLATED STEEL
66	E1-3018	MULLION T ANCHOR FOR 90° CORNER	-
67	E2-0103	THERMAL ISOLATOR	EPDM (85±5)
68	-	1/2"-13 HHMS BOLT (GRADE 5) OF SUFFICIENT LENGTH TO ACHIEVE FULL ENGAGEMENT W/ NUT SAE GR5 OR ASTM A325	-
69	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
70	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
71	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
72	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
73	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
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77	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
78	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
79	E1-3034	MULLION T-ANCHOR (HD)	6063-T5
80	E1-3035	JAMB F-ANCHOR (HD)	6063-T5
81	E1-3032	SHEAR BLOCK (HD HORIZ.)	6063-T5
82	E1-3016	90° CORNER SHEAR CLIP (RH)	6063-T5
83	E1-3017	90° CORNER SHEAR CLIP (LH)	6063-T5
85	E1-3029	90° CORNER SHEAR CLIP (HD)(LH)	6063-T5
85A	E1-3028	90° CORNER SHEAR CLIP (HD)(RH)	6063-T5
86	E3-0103	NYLON SLIP PAD	NYLON
87	E1-1280	WINDLOAD ANCHOR (HD)	A36 STEEL
88	E1-1281	DEADLOAD ANCHOR (HD)	A36 STEEL
89	-	DEADLOAD ANCHOR (NOT BY YKK AP)	A36 STEEL
90	-	WINDLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
91	-	DEADLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
92	-	WINDLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
93	-	DEADLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
94	-	WINDLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
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96	-	WINDLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
97	-	DEADLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL

98	-	WINDLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
99	-	DEADLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
100	E9-3159	OPEN BACK HEAD/HORIZONTAL (INS)	6063-T5
101	E2-0537	SIDE BLOCK	EPDM (85±5)
102	E9-9303	1-1/2" X 1-1/2" X 1/8" ANGLE	6063-T5
103	E9-9302	1" X 1" X 1/8" ANGLE	6063-T5
104	E2-0356	ISOLATOR TAPE	PVC SPONGE
105	HM-2516-W3	#1/4"-20 X 1" HWHMS	ZINC PLATED STEEL
106	FC-1456	#14 X 3 1/2" FHSMS TYPE AB	ZINC PLATED STEEL



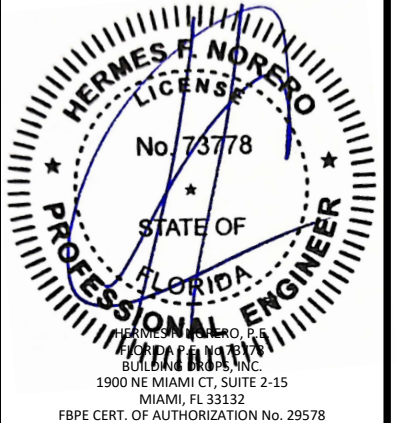
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SCALE:	NTS	
DWG. #:	YKK206	
SECTION:	9.3 [Page 35 of 35]	