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INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER 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., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- FOR INSTALLATION INTO WOOD FRAMING USE **#14 WOOD SCREWS** OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. ANCHORS MUST BE PLACED SUCH THAT A 3/4" EDGE DISTANCE IS MAINTAINED TO THE WOOD MEMBER'S EDGE.
- FOR INSTALLATION INTO METAL STUD USE **1/4" GRADE 5 SELF-DRILLING OR SELF-TAPPING SHEET METAL SCREWS** OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE. ANCHORS MUST BE PLACED SUCH THAT A 1/2" EDGE DISTANCE IS MAINTAINED TO THE METAL STUD'S EDGE.
- FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE **1/4" ITW TAPCONS** OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT INTO CONCRETE/MASONRY. ANCHORS MUST BE PLACED SUCH THAT A 2 1/2" EDGE DISTANCE IS MAINTAINED TO THE CONCRETE OR MASONRY EDGE.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- 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.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.
 - CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90. MINIMUM BLOCK AND GROUT COMPRESSIVE STRENGTHS OF 2000 PSI.
 - ALUMINUM - MINIMUM 0.067 INCH THICK, 6063-T5 ALUMINUM.

GENERAL NOTES:

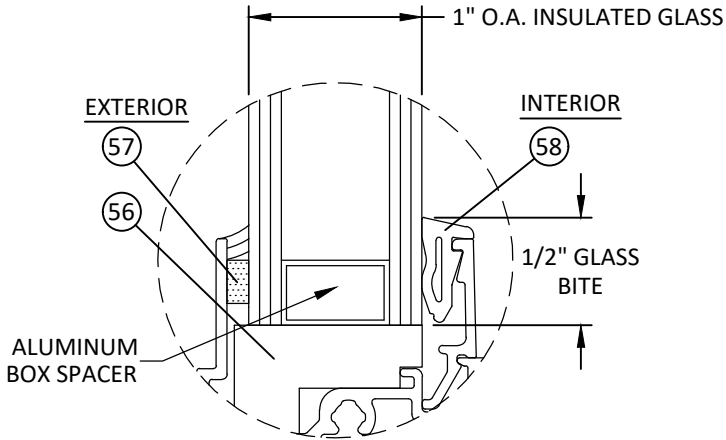
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-17
 - ASTM E283-19
 - ASTM E330-14
 - ASTM E331-00(16)
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING AND METAL 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 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 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: 6063-T5 ALUMINUM
- THE DESIGNATION "O" STANDS FOR THE FOLLOWING:
 - O: FIXED PANEL
 - X: OPERABLE PANEL
- GLASS SHALL MEET ASTM E1300 REQUIREMENTS, SEE SHEET 1 FOR GLAZING DETAIL.
- DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE FBC.

PRODUCT RATING			
PRODUCT	MAX. FRAME SIZE	DESIGN PRESSURE	MISSILE IMPACT RATING
SINGLE HUNG	60" X 99"	+/- 50 PSF	NON - IMPACT
DOUBLE HUNG	60" X 99"	+/- 50 PSF	NON - IMPACT

YKK AP America, Inc.

YVS 400 TU SINGLE HUNG / DOUBLE HUNG WINDOW (NON-HVHZ) (NON-IMPACT)

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10	COMPONENTS



GLAZING DETAIL

NOTES:

- GLASS THICKNESS AND TYPE SHALL COMPLY WITH ASTM E 1300 GLASS CHART REQUIREMENTS.
- ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN THE FBC.
- ALL LITES GREATER THAN 36" IN WIDTH SHALL UTILIZE SETTING BLOCKS IN ACCORDANCE WITH THE FBC. CH. 24
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.

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.



YKK AP America, Inc.

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

TITLE: YVS 400 TU SINGLE HUNG / DOUBLE HUNG WINDOW (NON-HVHZ) (NON-IMPACT)
INSTALLATION, GENERAL NOTES & GLAZING DETAIL

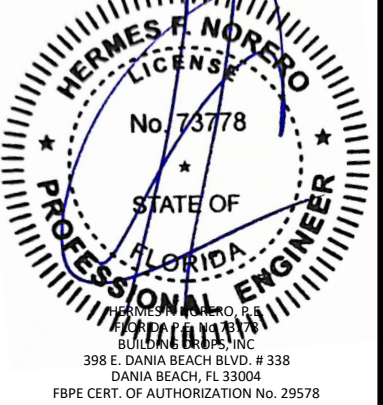
PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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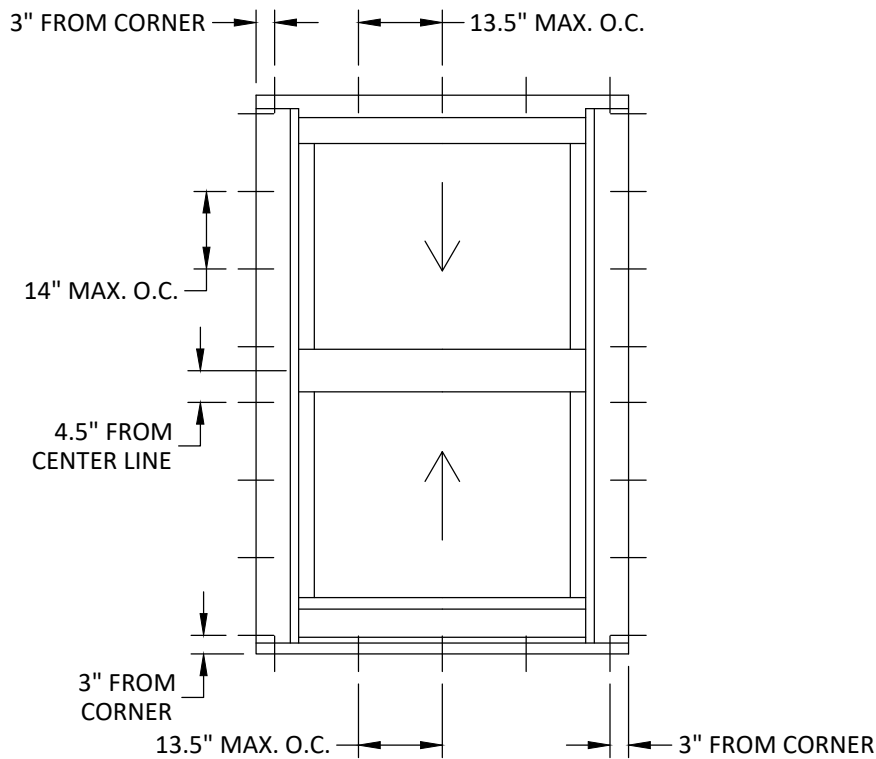
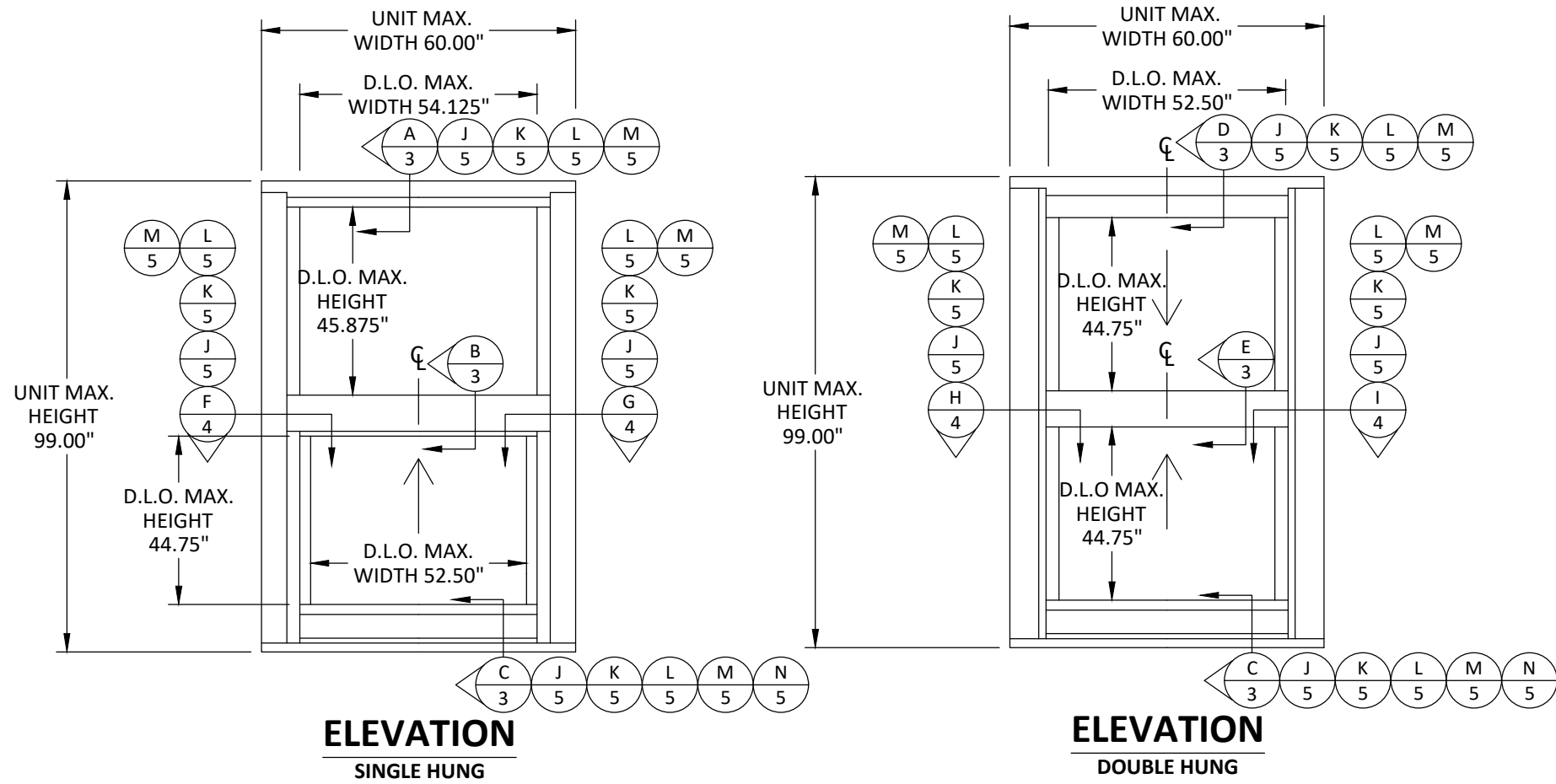
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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.08.02 12:41:57 -04'00'



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ANCHOR LAYOUT
SINGLE HUNG / DOUBLE HUNG



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ELEVATION & ANCHOR LAYOUT

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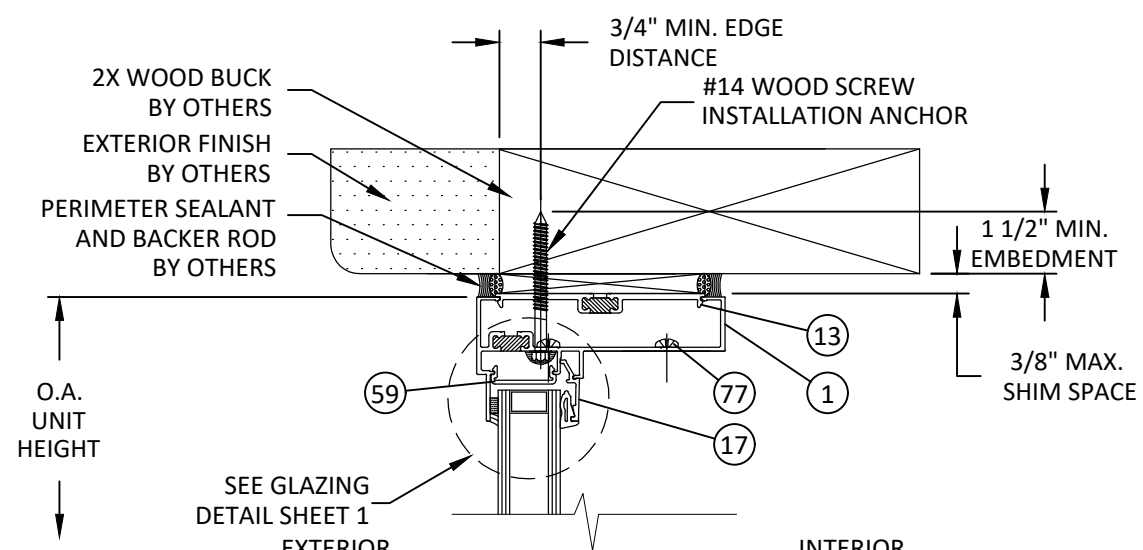
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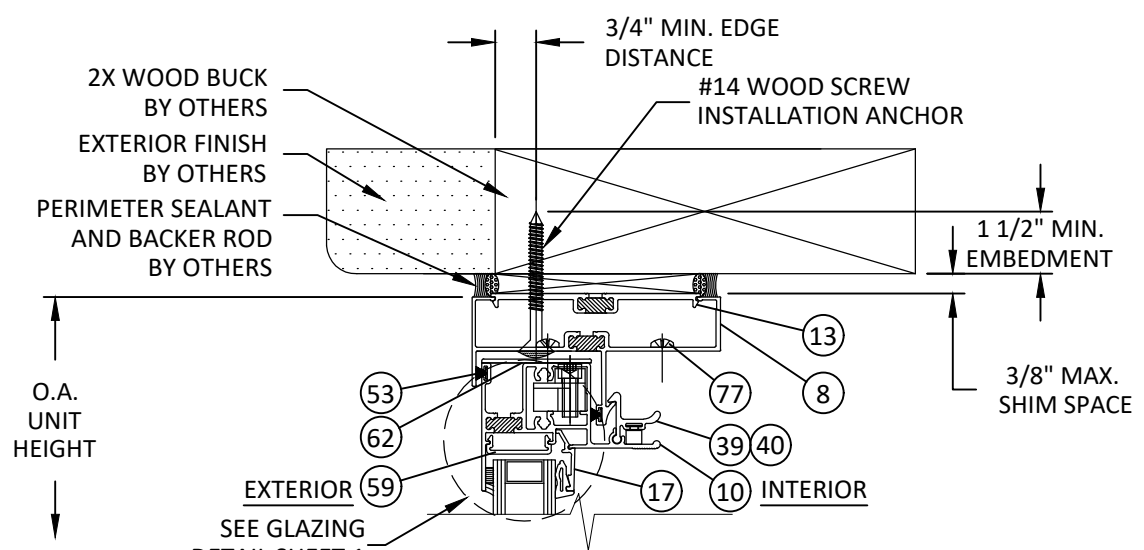


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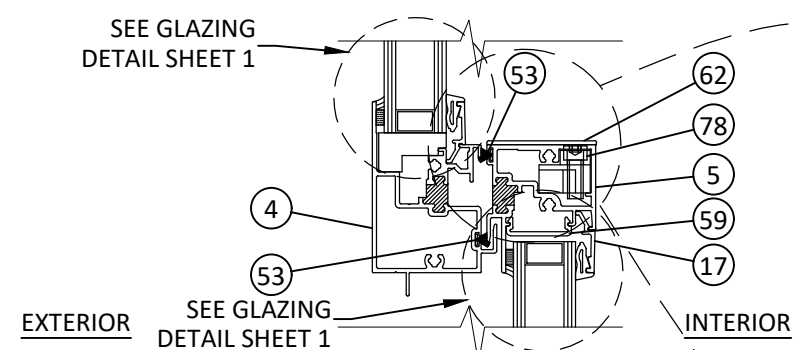
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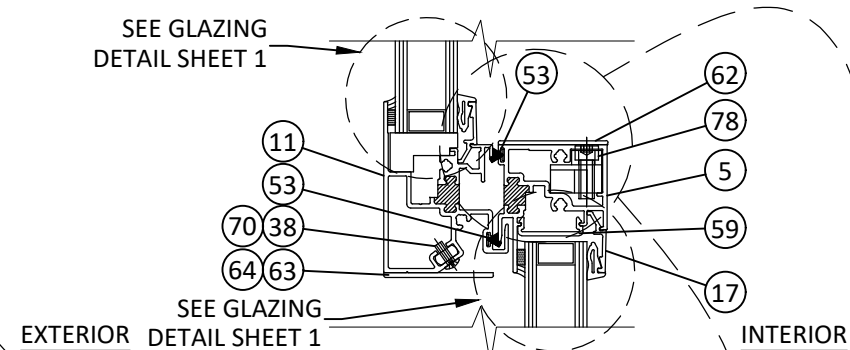
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SINGLE HUNG HEAD - 2X WOOD BUCK
THROUGH FRAME



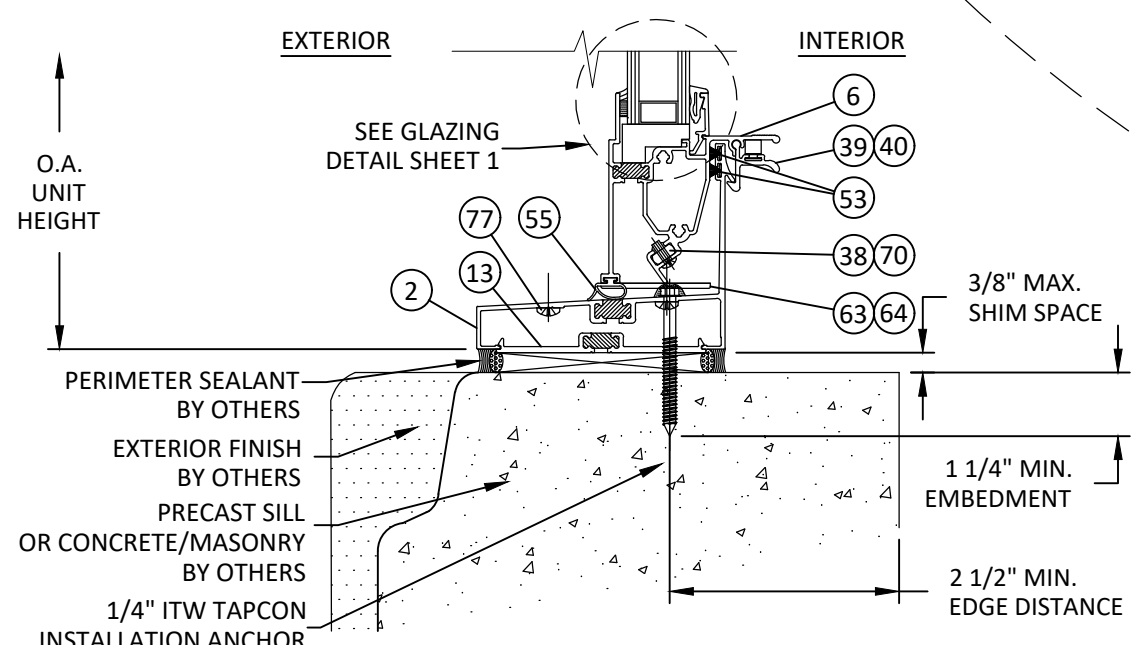
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DOUBLE HUNG HEAD - 2X WOOD BUCK
THROUGH FRAME



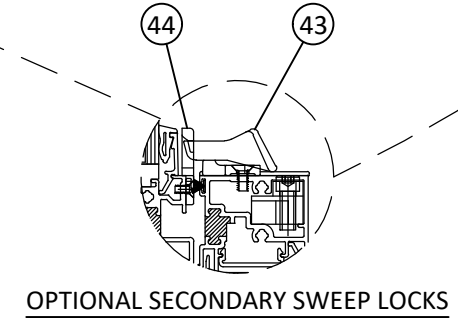
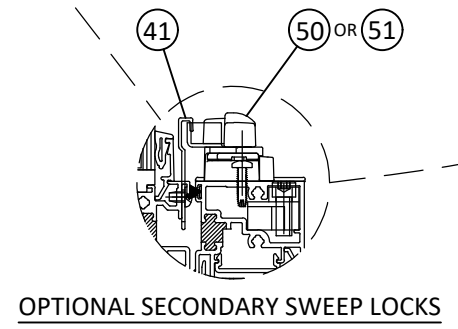
B
3 **VERTICAL SECTION**
SINGLE HUNG LOCKING RAILS



E
3 **VERTICAL SECTION**
DOUBLE HUNG LOCKING RAILS



C
3 **VERTICAL SECTION**
SINGLE HUNG & DOUBLE HUNG SILL
CONCRETE/MASONRY - THROUGH FRAME



OPTIONAL SECONDARY SWEEP LOCKS

OPTIONAL SECONDARY SWEEP LOCKS

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TITLE: YVS 400 TU SINGLE HUNG /
DOUBLE HUNG WINDOW
(NON-HVHZ) (NON-IMPACT)

VERTICAL SECTIONS

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398 E. DANIA BEACH BLVD., STE. 338
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BD
BUILDING DROPS

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

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

FL #:
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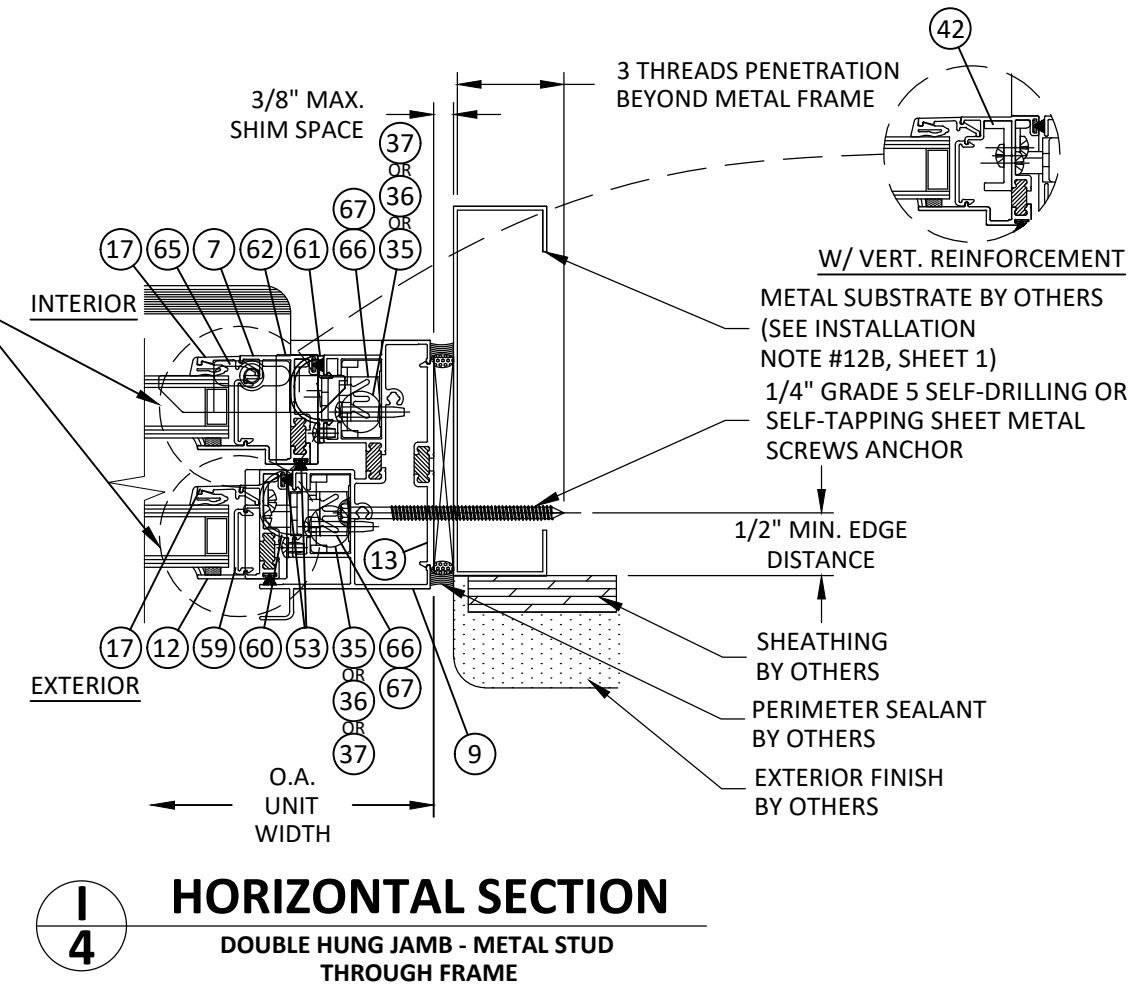
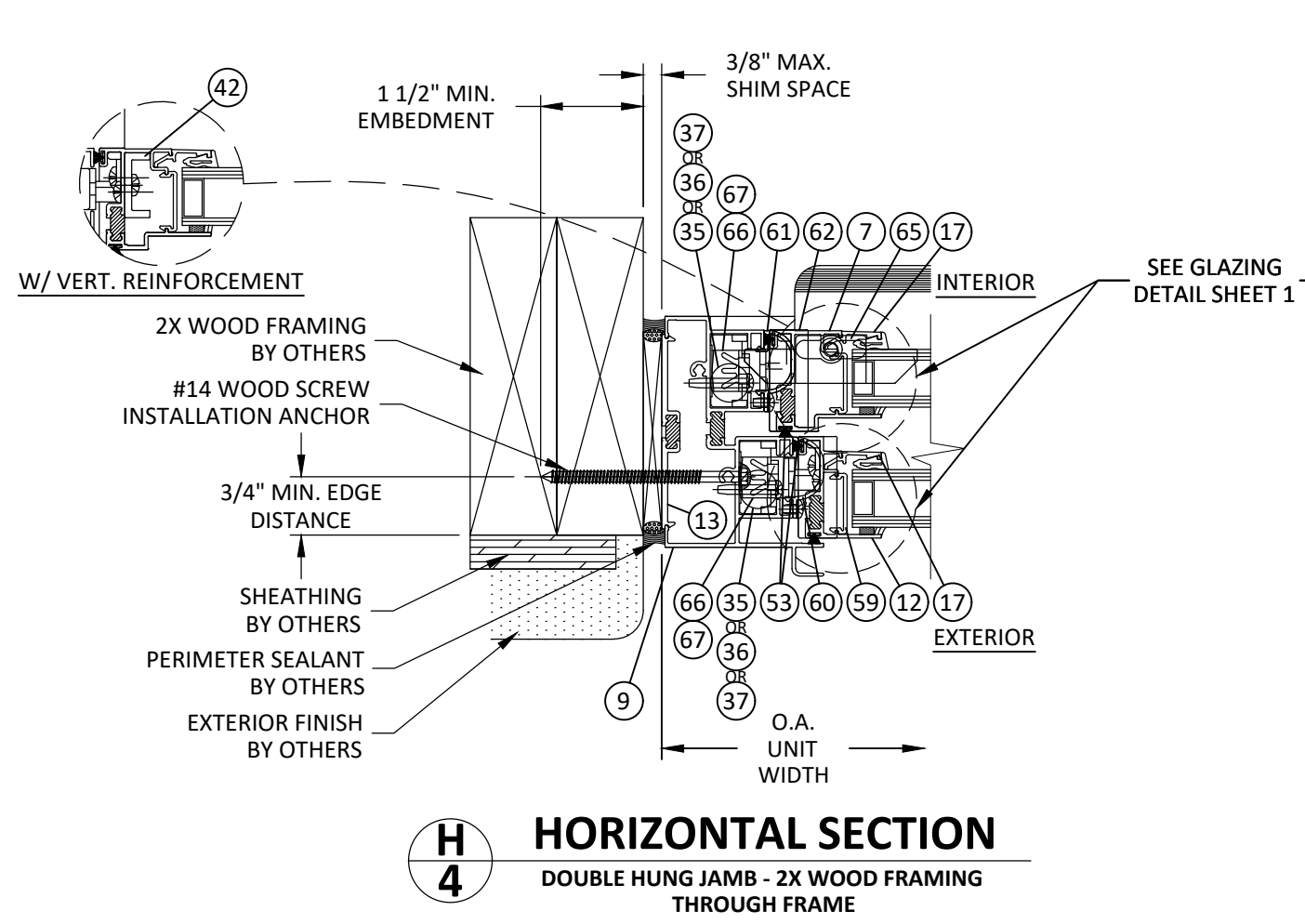
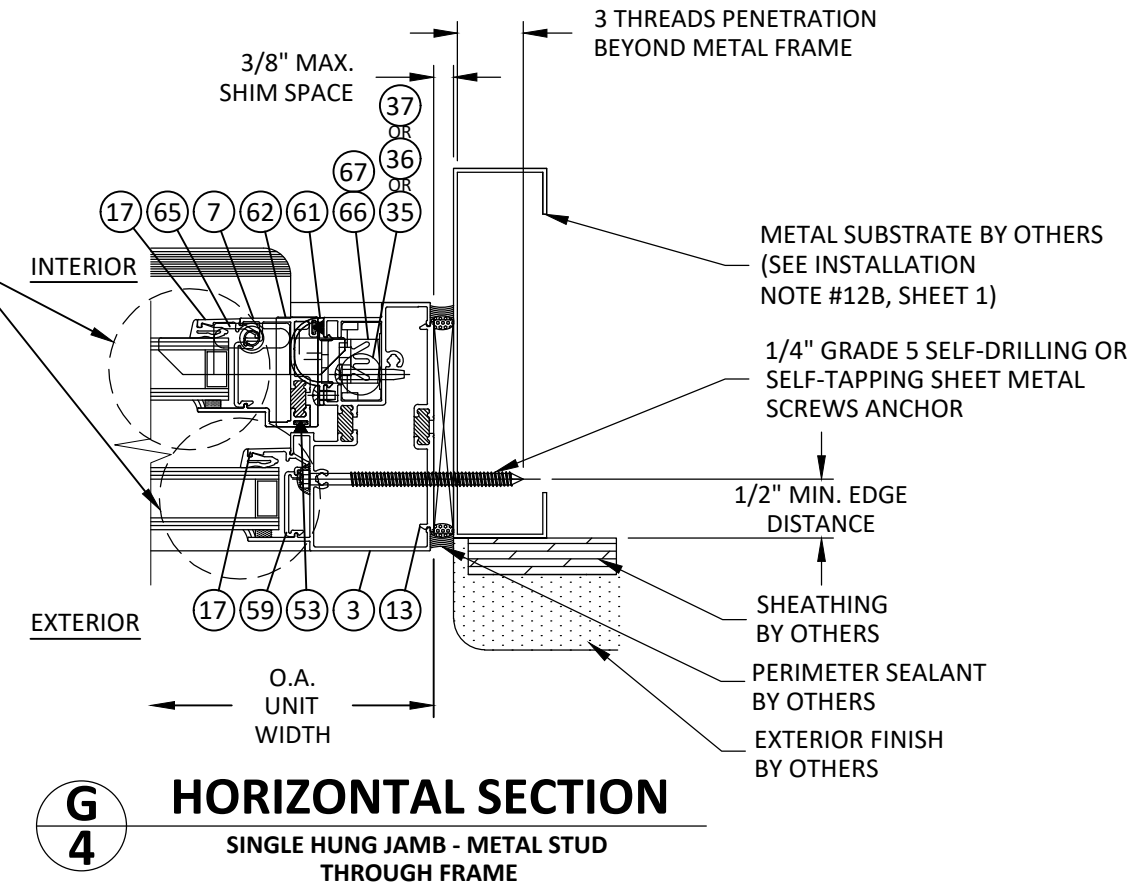
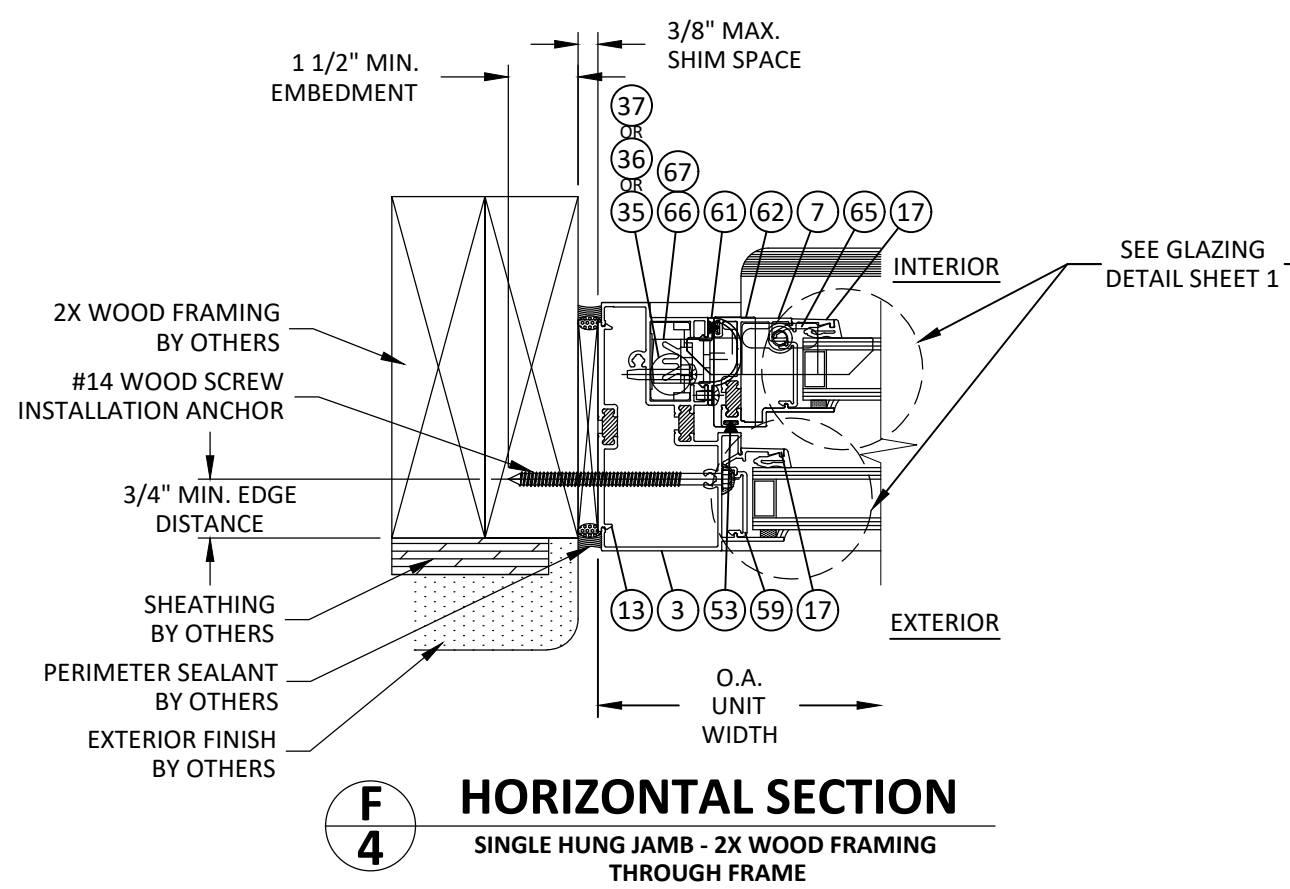
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DWG. #: **YKK063**

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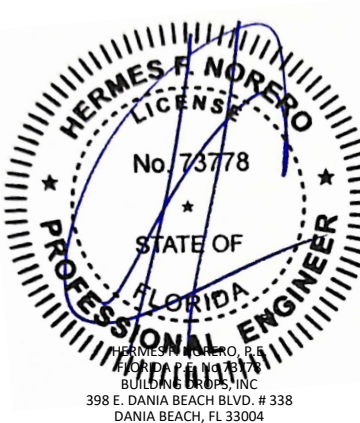
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HORIZONTAL SECTIONS

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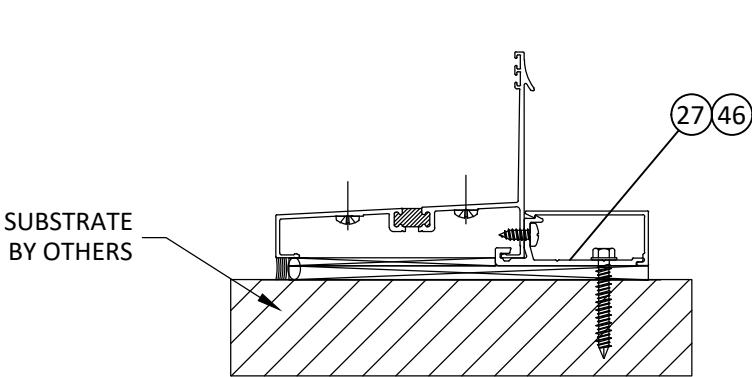
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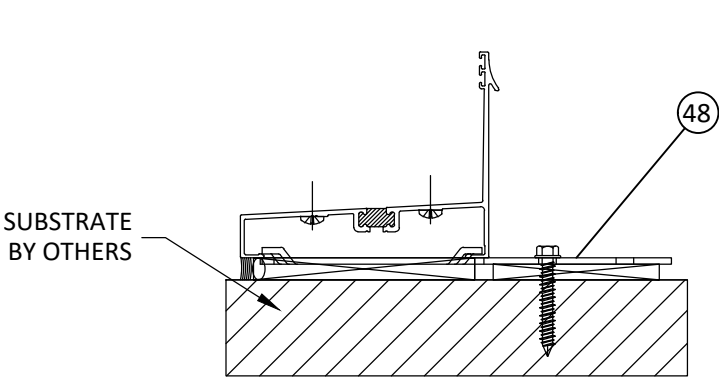
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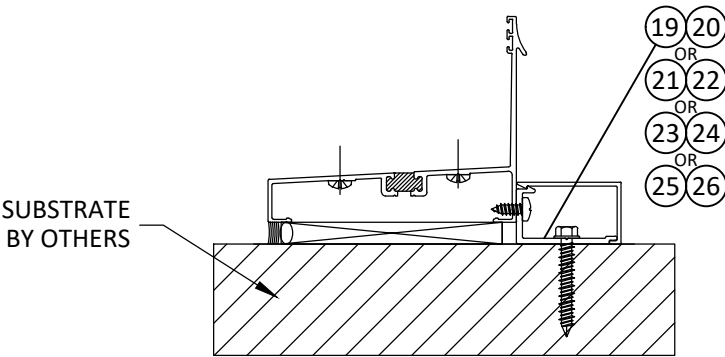
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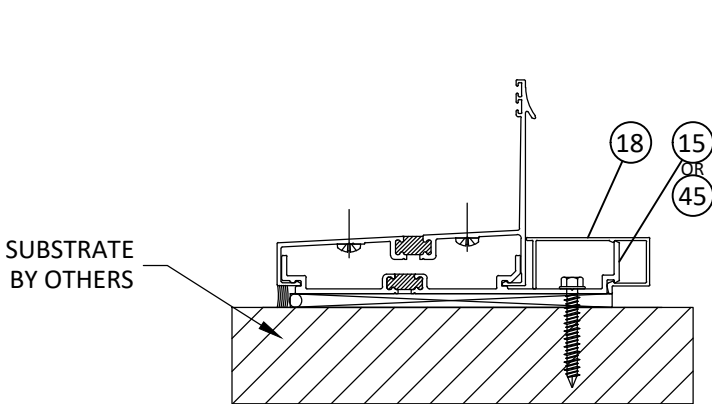
J
5
VERTICAL SECTION
CLIP ANCHOR
TYP. HEAD, JAMB & SILL



K
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VERTICAL SECTION
TWIST ANCHOR
TYP. HEAD, JAMB & SILL

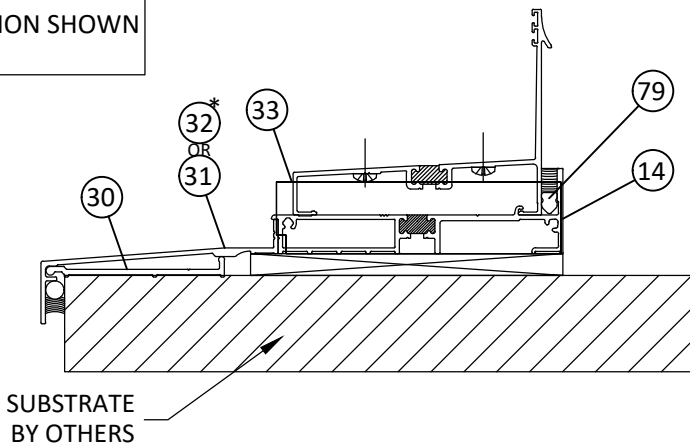


L
5
VERTICAL SECTION
BOX TRIM BASE & COVER ANCHOR
TYP. HEAD, JAMB & SILL



M
5
VERTICAL SECTION
STRAP ANCHOR
TYP. HEAD, JAMB & SILL

*
3" SILL EXTENSION SHOWN
4" SIMILAR



N
5
VERTICAL SECTION
SILL FLASHING



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ANCHOR OPTIONS

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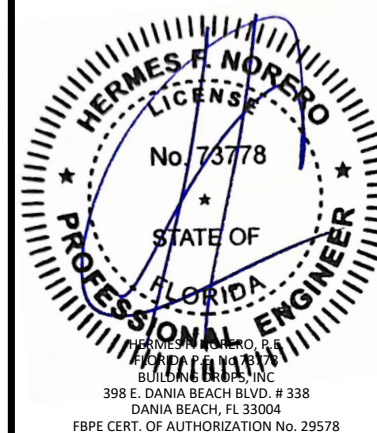
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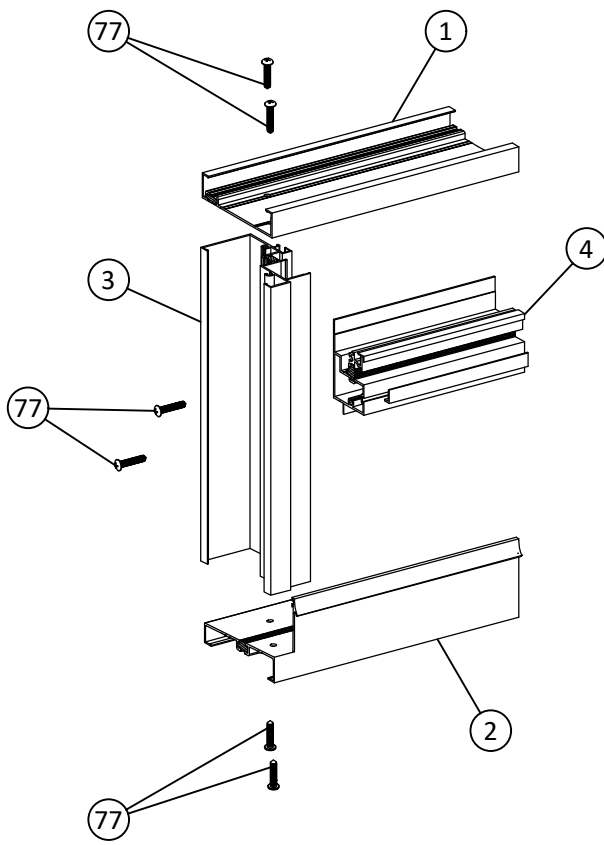
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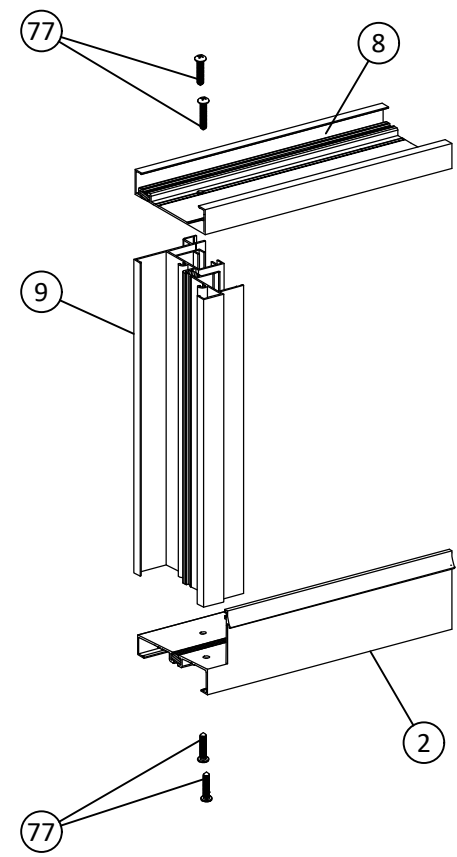
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SINGLE HUNG



DOUBLE HUNG

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

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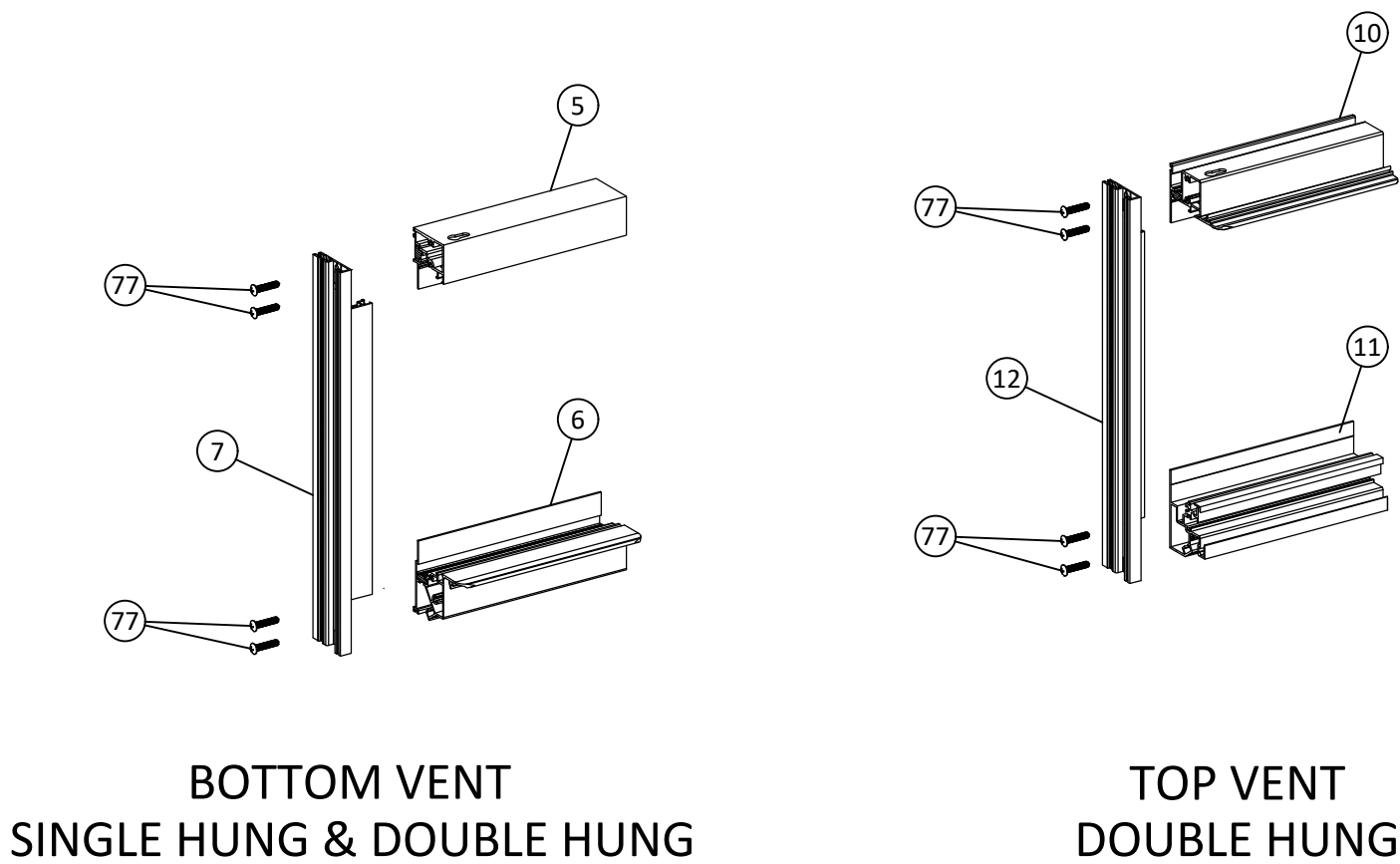
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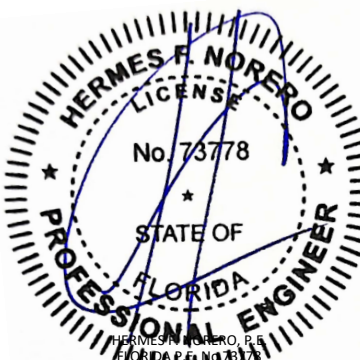
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YVS 400 TU BILL OF MATERIALS			
ITEM#	PART#	DESCRIPTION	MATERIAL
1	BE9-4701	FRAME HEAD - SINGLE HUNG	6063-T5
2	BE9-4619	FRAME SILL	6063-T5
3	BE9-4612	FRAME JAMB - SINGLE HUNG	6063-T5
4	BE9-4613	MEETING RAIL	6063-T5
5	BE9-4606	LOCK RAIL	6063-T5
6	BE9-4620	BOTTOM RAIL	6063-T5
7	BE9-4609	STILE	6063-T5
8	BE9-4601	FRAME HEAD - DOUBLE HUNG	6063-T5
9	BE9-4603	FRAME JAMB - DOUBLE HUNG	6063-T5
10	BE9-4604	TOP RAIL - DOUBLE HUNG	6063-T5
11	BE9-4605	LOCK RAIL - DOUBLE HUNG - OUTSIDE	6063-T5
12	BE9-4608	STILE - DOUBLE HUNG - UPPER	6063-T5
13	BE9-4657	4" FILLER	6063-T5
14	BE9-4585	4" SILL FLASHING	6063-T5
15	BE9-8567	STRAP ANCHOR	6063-T5
16	E9-4614	SCREEN ATTACHMENT - SINGLE HUNG	6063-T5
17	E9-4610	GLASS STOP	6063-T5
18	E9-8431	STRAP ANCHOR TRIM COVER	6063-T5
19	E9-4556	BOX TRIM BASE - 1" X 1-1/4"	6063-T5
20	E9-4557	BOX TRIM COVER - 1" X 1-1/4"	6063-T5
21	E9-8537	BOX TRIM BASE - 1" X 1-11/16"	6063-T5
22	E9-8538	BOX TRIM COVER - 1" X 1-11/16"	6063-T5
23	E9-4031	BOX TRIM BASE - 1" X 2"	6063-T5
24	E9-4032	BOX TRIM COVER - 1" X 2"	6063-T5
25	E9-8562	BOX TRIM BASE - 1-1/8" X 3-1/2"	6063-T5
26	E9-8563	BOX TRIM COVER - 1-1/8" X 3-1/2"	6063-T5
27	E9-4035	ANCHOR CLIP TRIM	6063-T5
30	E9-4559	SILL EXTENSION ANCHOR	6063-T5
31	E9-4586	3" SILL EXTENSION	6063-T5
32	E9-4587	4" SILL EXTENSION	6063-T5
33	E1-1946	END DAM	0.050" ALUMINUM SHEET
35	E1-1755	SPIRAL BALANCE - ULTRA LIFT	SPRING STEEL / STAINLESS / PLASTIC
36	E1-1756	SPIRAL BALANCE - ALUMA TILT	SPRING STEEL / STAINLESS / PLASTIC
37	E1-1757	BLOCK & TACKLE BALANCE	GALVANIZED STEEL / SPRING STEEL
38	E1-1754	PIVOT BAR	STAINLESS STEEL
39	E1-1758-A	HEAD / SILL LOCK	6063-T5
40	E1-1758-B	FLAT TENSION SPRING	PLATED SPRING STEEL

YVS 400 TU BILL OF MATERIALS			
ITEM#	PART#	DESCRIPTION	MATERIAL
41	E1-1774	KEEPER	STAINLESS STEEL
42	E1-1764	VERTICAL REIN. (REQ'D FOR DOUBLE HUNG 84"-99" TALL)	6063-T5
43	E1-1761	SWEEP LOCK - OPTIONAL	WHITE BRONZE
44	E1-1762	KEEPER - OPTIONAL	WHITE BRONZE
45	E1-1921	STRAP ANCHOR - 2"	6063-T5
46	E1-1922	ANCHOR CLIP	6063-T5
47	E1-1949	END CAP	0.050" ALUMINUM SHEET
48	E1-1972	TWIST ANCHOR	12 GA.GALVANIZED STEEL
49	E1-2005	END DAM	0.050" ALUMINUM SHEET
50	5K-18622	SWEEP LOCK - RH - WITH SECURITY LATCH - OPTIONAL	STAINLESS / DIE CAST / PA66
51	5K-18623	SWEEP LOCK - LH - WITH SECURITY LATCH - OPTIONAL	STAINLESS / DIE CAST / PA66
53	E2-0062	WEATHER SEAL	POLYPROPYLENE
54	E2-0367	INTERIOR ARROW SPACER	SCR900
55	E2-0658	AT GASKET	EPDM
56	E2-0661PC	SETTING BLOCK	P.C. EPDM
57	E2-0670	BACKER TAPE - SINGLE HUNG	POLYURETHANE
58	E2-0671	WEDGE GASKET	EPDM
59	E3-1111	SIDE BLOCK	PVC
60	E3-1112	VENT STOPPER - TOP	PVC
61	E3-1113	VENT STOPPER - BOTTOM	PVC
62	E3-1114	CORNER CAP - TOP	POLYAMIDE 6
63	E3-1115	CORNER CAP - BOTTOM LEFT	POLYAMIDE 6
64	E3-1116	CORNER CAP - BOTTOM RIGHT	POLYAMIDE 6
65	E3-1117	TILT HOLDER	POLYACTETAL
66	E3-1118	PIVOT SHOE	POLYACTETAL
67	E3-1119	PIVOT SHOE COVER	POLYACTETAL
68	PF0606-SS	#6 X 3/8"	STAINLESS STEEL
69	PF0804-SS	#8-32 X 1/4"	STAINLESS STEEL
70	PC0806-SS	#8 X 3/8"	STAINLESS STEEL
71	PM0806-SS	#8-32 X 3/8"	STAINLESS STEEL
72	PF0810-SS	#8-32 X 5/8"	STAINLESS STEEL
73	FF0812-SS	#8-32 X 3/4"	STAINLESS STEEL
74	FF0816-SS	#8-32 X 1"	STAINLESS STEEL
75	PF1006-SS	#10-24 X 3/8"	STAINLESS STEEL
76	PC1008-SS	#10 X 1/2"	STAINLESS STEEL
77	PC1016-SS	#10 X 1"	STAINLESS STEEL
78	SM2510-SS	1/4"-20 X 5/8"	STAINLESS STEEL
79	E2-0359	SPACER	EPDM

YKK

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YKK AP America, Inc.
1229 HWY 441 BYPASS
DUBLIN, GA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YVS 400 TU SINGLE HUNG /
DOUBLE HUNG WINDOW
(NON-HVHZ) (NON-IMPACT)

BILL OF MATERIALS

PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

B

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BUILDING DROPS

REMARKS	BY	DATE
8TH FBC CODE CHANGE	OL	6.08.23

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HERMES F. NORERO

LICENSE

No. 73778

STATE OF

FLORIDA

PROFESSIONAL ENGINEER

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

FL #:

FL12878

DATE:

06.12.15

DWG. BY:

LS

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

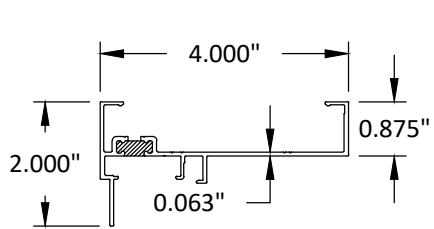
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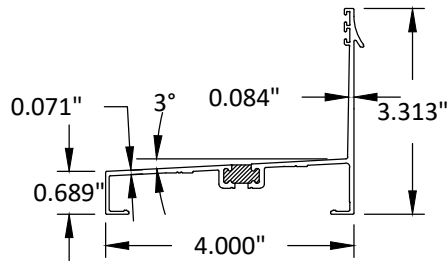
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OF 10

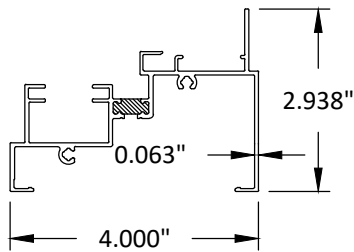
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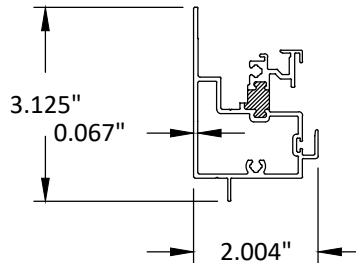
1 FRAME HEAD - SINGLE HUNG



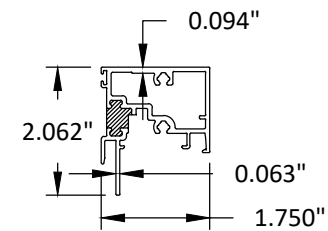
2 FRAME SILL



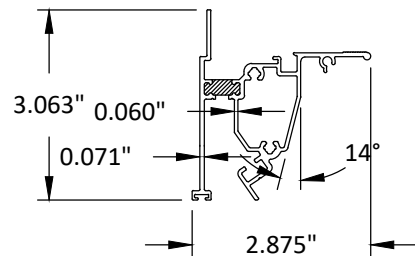
3 FRAME JAMB - SINGLE HUNG



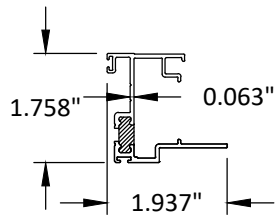
4 MEETING RAIL



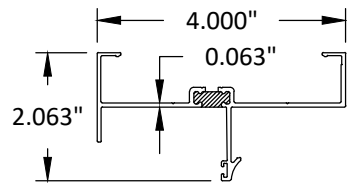
5 LOCK RAIL



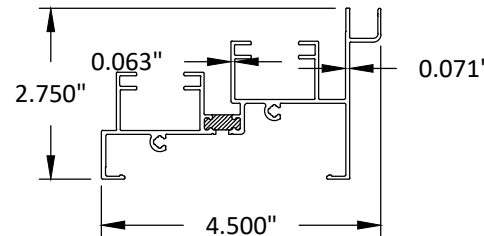
6 BOTTOM RAIL



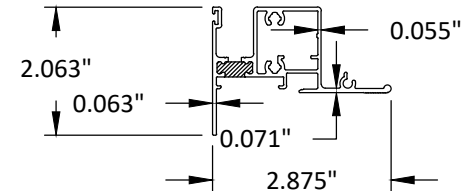
7 STILE



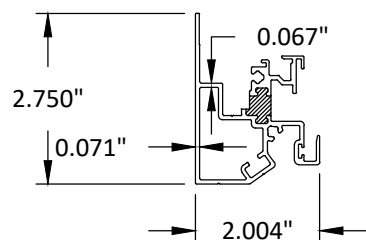
8 FRAME HEAD - DOUBLE HUNG



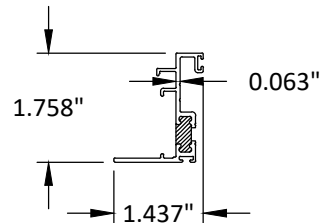
9 FRAME JAMB - DOUBLE HUNG



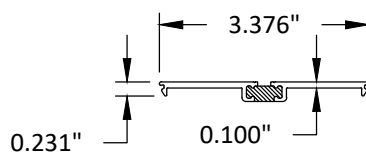
10 TOP RAIL - DOUBLE HUNG



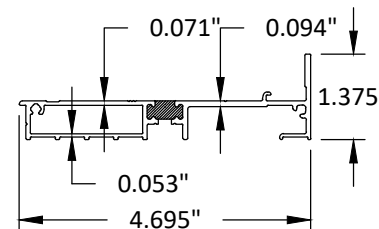
11 LOCK RAIL - DOUBLE HUNG - OUTSIDE



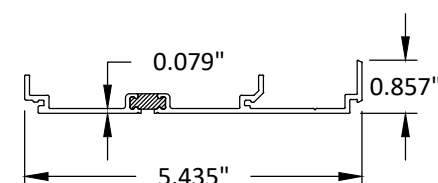
12 STILE - DOUBLE HUNG - UPPER



13 4" FILLER



14 SILL FLASHING



15 STRAP ANCHOR - FULL LENGTH

45 STRAP ANCHOR - 2"



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

TITLE: YYS 400 TU SINGLE HUNG /
DOUBLE HUNG WINDOW
(NON-HVHZ) (NON-IMPACT)

COMPONENTS

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DANIA BEACH, FL 33004
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REMARKS	BY	DATE
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LS

CHK. BY:
HFN

SCALE: NTS

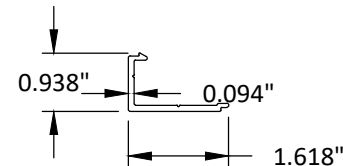
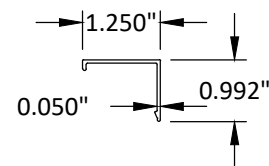
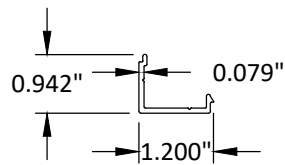
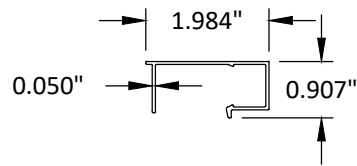
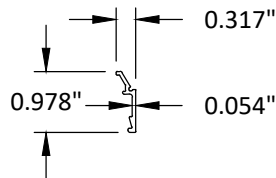
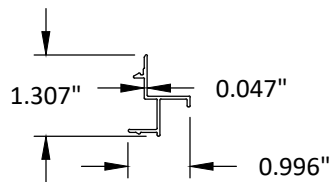
DWG. #: YKK063

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16 SCREEN ATTACHMENT

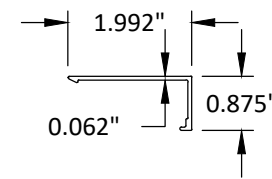
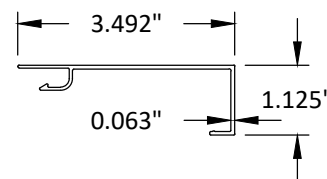
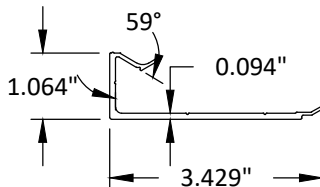
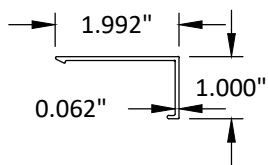
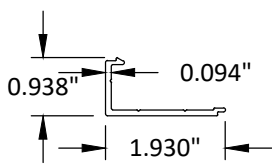
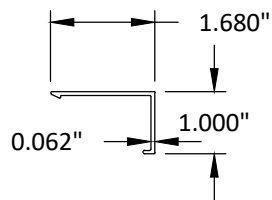
17 GLASS STOP

18 STRAP ANCHOR TRIM COVER

19 BOX TRIM BASE
1" X 1-1/4"

20 BOX TRIM COVER
1" X 1-1/4"

21 BOX TRIM BASE
1" X 1-11/16"



22 BOX TRIM COVER
1" X 1-11/16"

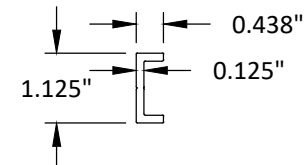
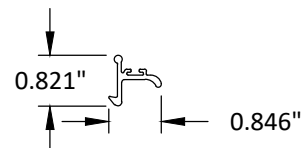
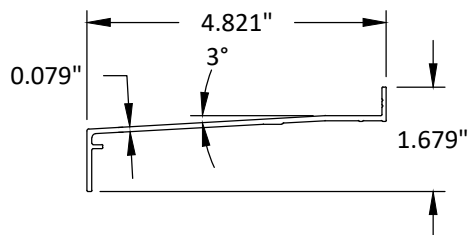
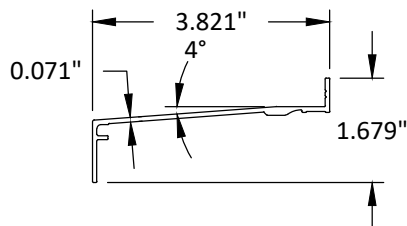
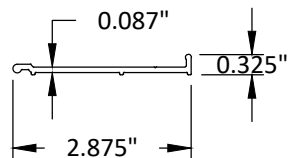
23 BOX TRIM BASE
1" X 2"

24 BOX TRIM COVER
1" X 2"

25 BOX TRIM BASE
1-1/8" X 3-1/2"

26 BOX TRIM COVER
1-1/8" X 3-1/2"

27 ANCHOR CLIP TRIM



$L = FH/2 - 3 \frac{5}{8} [85.7]$

D.H. SIZE (FH)	L
84" < FH ≤ 92"	38 3/8" < L ≤ 42 3/8"
92" < FH ≤ 99"	42 3/8" < L ≤ 45 7/8"

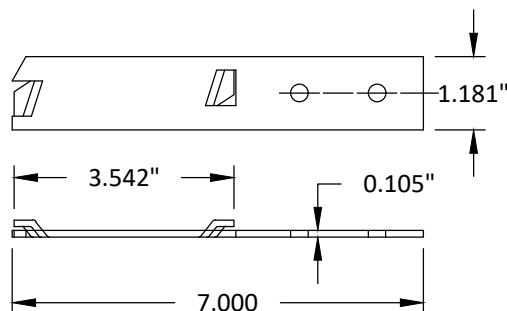
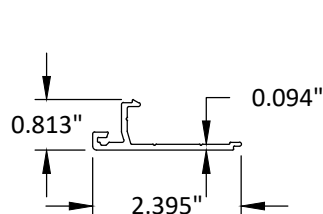
30 SILL EXTENSION ANCHOR

31 3" SILL EXTENSION

32 4" SILL EXTENSION

39 HEAD / SILL LOCK - 3"

42 VERTICAL REINFORCEMENT



46 ANCHOR CLIP

48 TWIST ANCHOR



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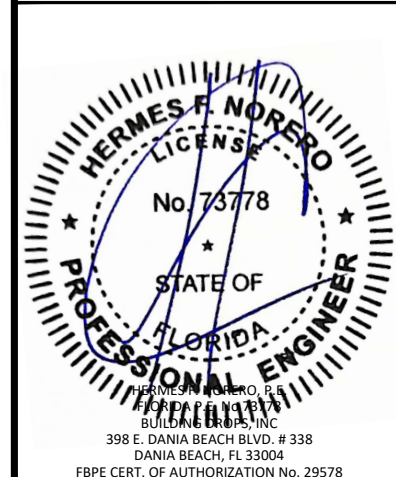
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