

6/7/2023 3:26 PM
z:\projects\andersen windows\cc-23-0347 - fbc 2023 code change (8th edition)\dwgs\115752\awd052.dwg

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR CLIP IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- 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.
- INSTALLATION CLIP:** FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE ONE (1) 3/16 INCH ITW TAPCON PER INSTALLATION CLIP OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
- INSTALLATION CLIP:** FOR INSTALLATION INTO 2X BUCK USE TWO (2) #8 WOOD SCREWS OR ONE (1) #10 WOOD SCREW PER INSTALLATION CLIP OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- INSTALLATION CLIP:** FOR INSTALLATION THROUGH METAL STUD USE TWO (2) #8 SELF-TAPPING SCREWS PER INSTALLATION CLIP OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE.
- NAILING FIN:** FOR INSTALLATION THROUGH METAL STUD USE #8 SELF-DRILLING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE.
- NAILING FIN:** FOR INSTALLATION INTO 2X BUCK USE #8 WOOD SCREWS OR 8D COMMON NAILS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- THROUGH FRAME:** FOR INSTALLATION INTO 2X BUCK USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- THROUGH FRAME:** FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE ONE (1) 3/16 INCH ITW TAPCON OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
- 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 1/4 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.
 - CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 33 MILS.
 - ALUMINUM - MINIMUM WALL THICKNESS OF 1⁄8". 6063-T5 ALLOY OR BETTER.

ANDERSEN CORPORATION

400 SERIES TILT WASH DOUBLE HUNG WINDOW (NON-HVHZ)(NON-IMPACT)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE, **EXCLUDING** HVHZ AREAS AND HAS BEEN EVALUATED TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-17
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X 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.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 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** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: PONDEROSA PINE (MIN. S.G. = 0.40) AND PVC
- GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 4 FOR GLAZING DETAIL.
- DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED PANEL
- CUSTOM SIZING AVAILABLE IN 1/8" INCREMENTS.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL & INSTALLATION NOTES
2	ELEVATION & ANCHOR LAYOUTS
3	VERTICAL SECTIONS
4	HORIZONTAL SECTIONS & GLAZING DETAIL
5	COMPONENTS & BILL OF MATERIALS
6	COMPONENTS (1)
7	COMPONENTS (2)
8	ONE-WAY WOOD MULL DP TABLE & MULL DETAILS
9	ONE-WAY WOOD MULL DP TABLE & MULL DETAILS (W/ V-NOTCH GUSSET)
10	ONE-WAY & TWO-WAY DP STEEL MULL TABLE & MULL DETAILS

DESIGN PRESSURE RATING		
SIZE	DESIGN PRESSURE	MISSILE IMPACT RATING
45 5/8" X 76 7/8"	+40.0 / -40.0 PSF	NON-IMPACT
45 5/8" X 92 7/8"	+30.0 / -35.0 PSF	NON-IMPACT



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE:
400 SERIES TILT WASH
DOUBLE HUNG WINDOW
(NON-HVHZ)(NON-IMPACT)
GENERAL & INSTALLATION NOTES

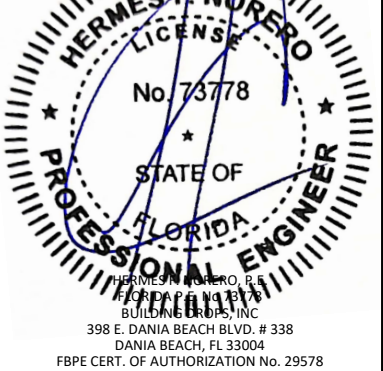
PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
5TH EDITION FBC UPDATES	SM	4.14.15
DP CORRECTIONS & NOTE 9 ADD.	LA	6.06.17
7TH FBC CODE CHANGE	SR	3.19.20
8TH FBC CODE CHANGE	OL	6.01.23

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.

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.06.13 13:48:12 -0400



FL #:
FL15752

DATE: **06.14.12**

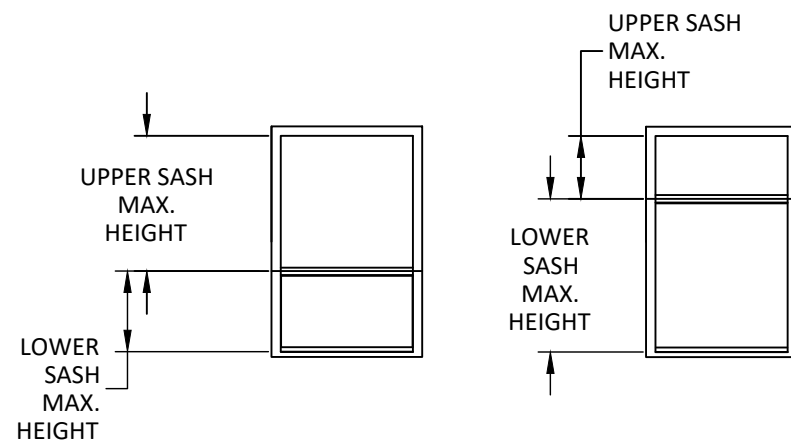
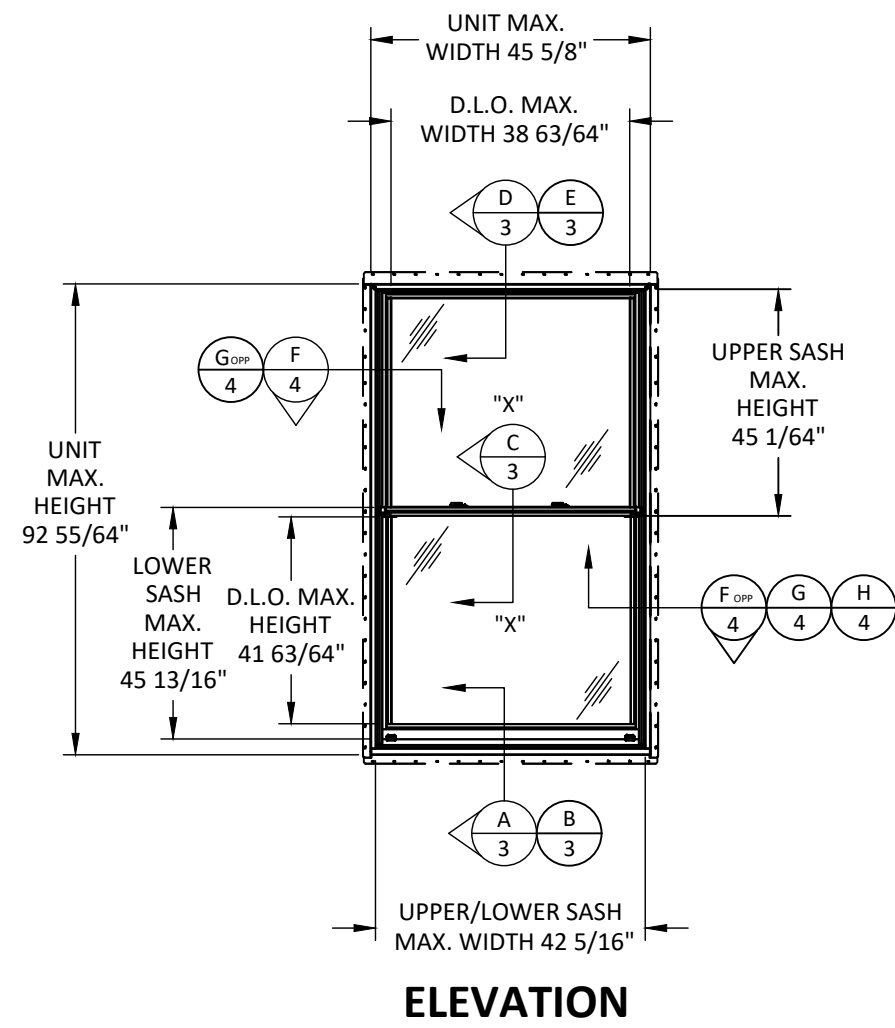
DWG. BY: **MSS** CHK. BY: **HFN**

SCALE: **NTS**

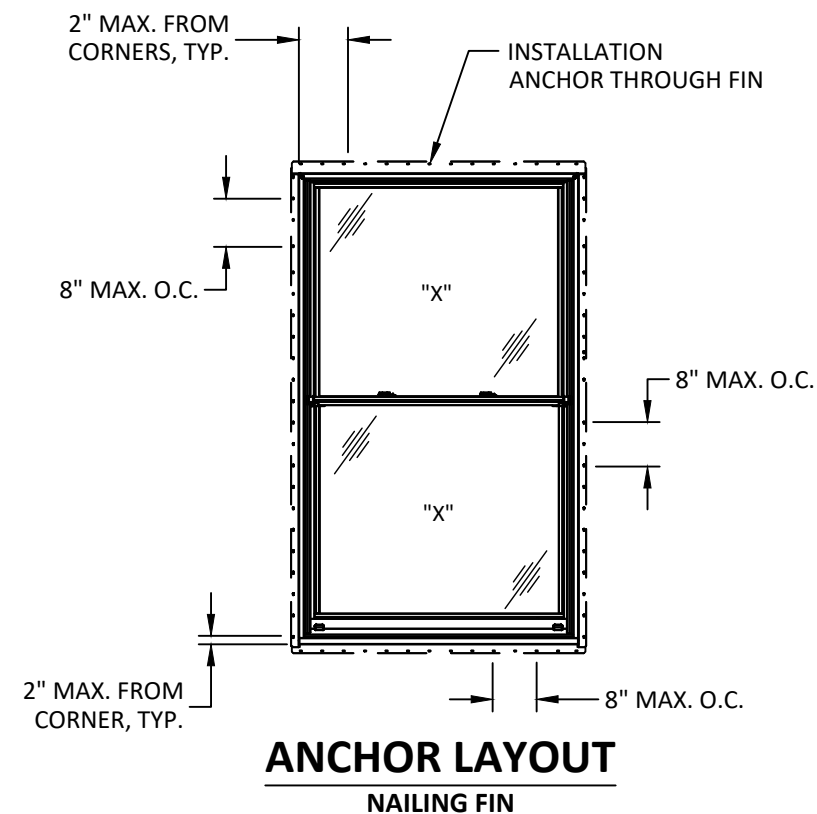
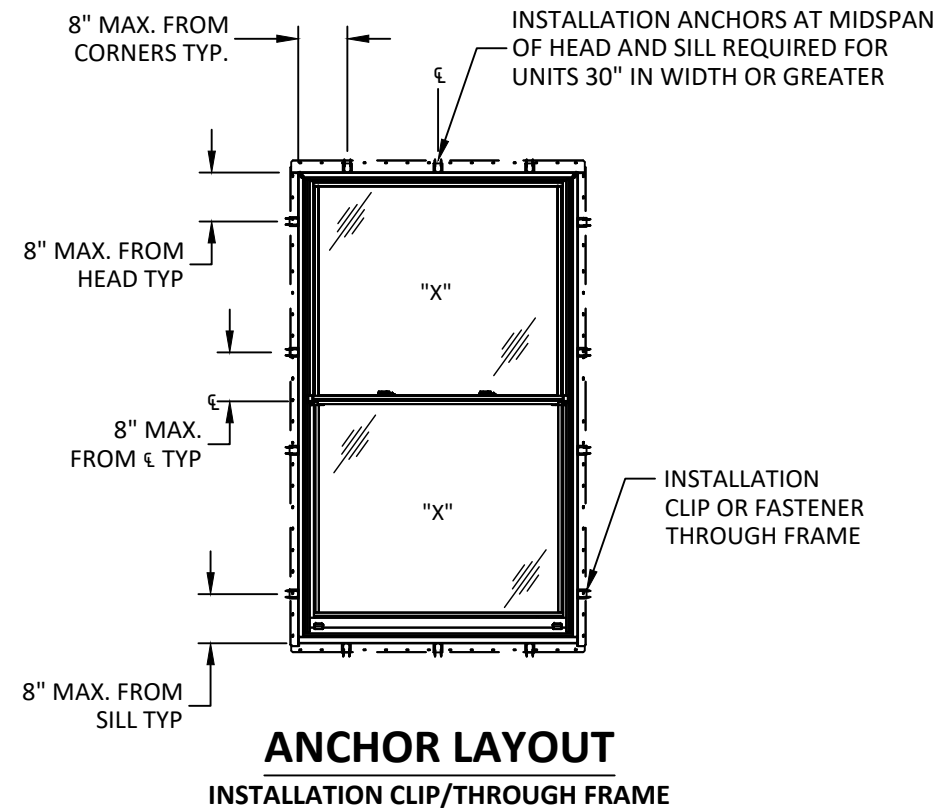
DWG. #: **AWD052**

SHEET:
1
OF 10

6/7/2023 3:26 PM
z:\projects\andersen windows\dwg\cc-23-0347 - fbc 2023 code change (8th edition)\dwg\115752\awd052.dwg



NOTE: COTTAGE & REVERSE COTTAGE DOUBLE HUNG WINDOWS APPROVED SUCH THAT MAXIMUM SASH HEIGHTS DO NOT EXCEED 46" FOR A DESIGN PRESSURE OF +30/-35 PSF OR 40" FOR A DESIGN PRESSURE OF +40/-40 PSF.



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 400 SERIES TILT WASH
DOUBLE HUNG WINDOW
(NON-HVHZ)/(NON-IMPACT)
ELEVATION & ANCHOR LAYOUTS

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

BUILDING DROPS

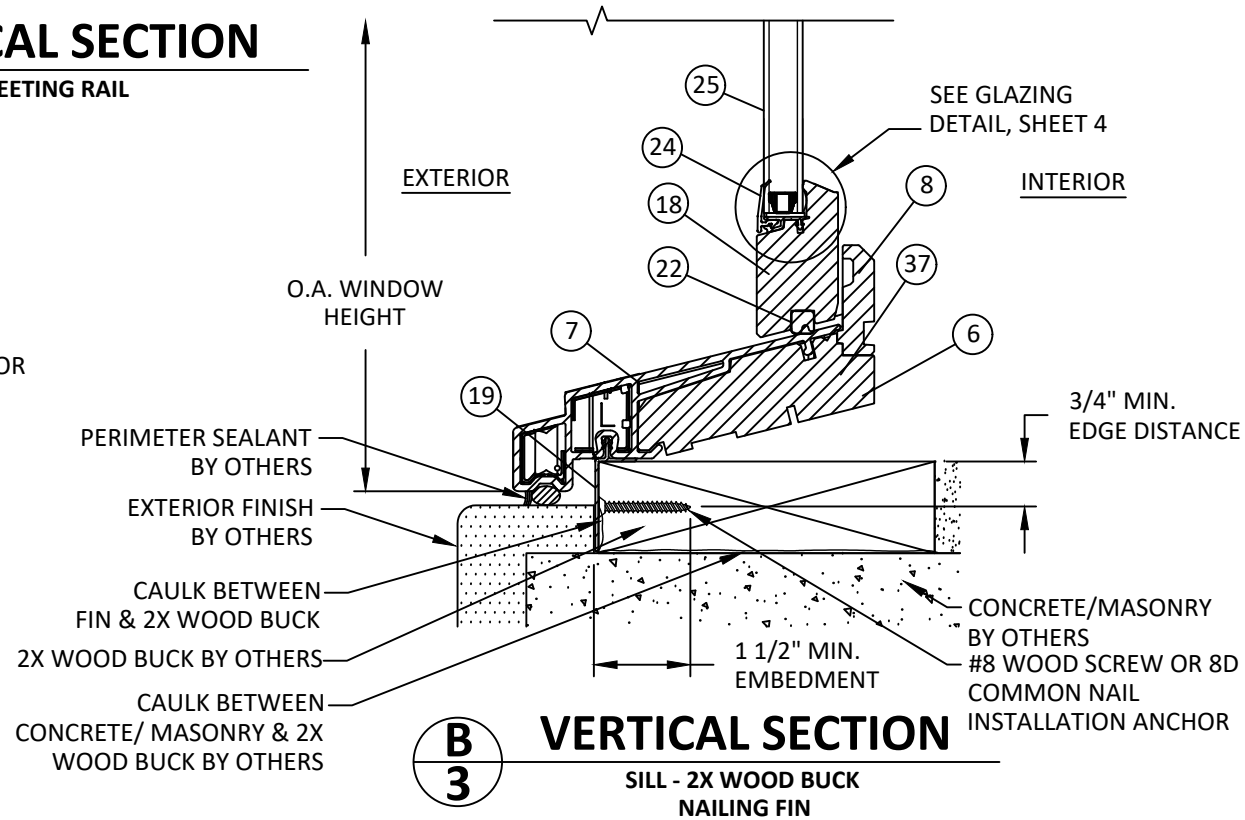
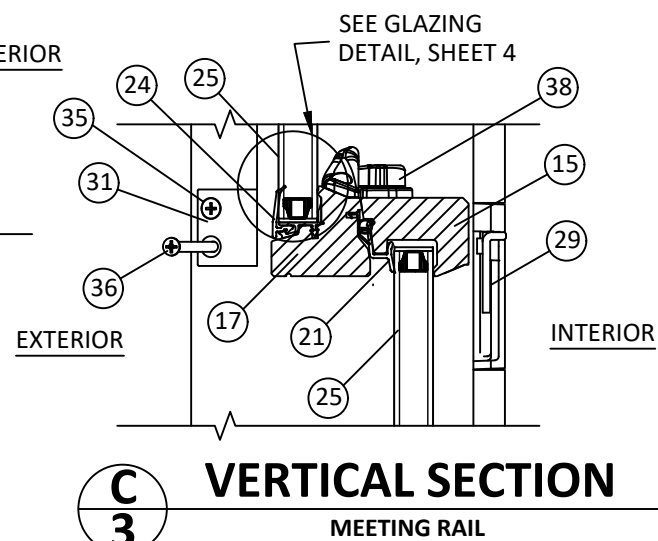
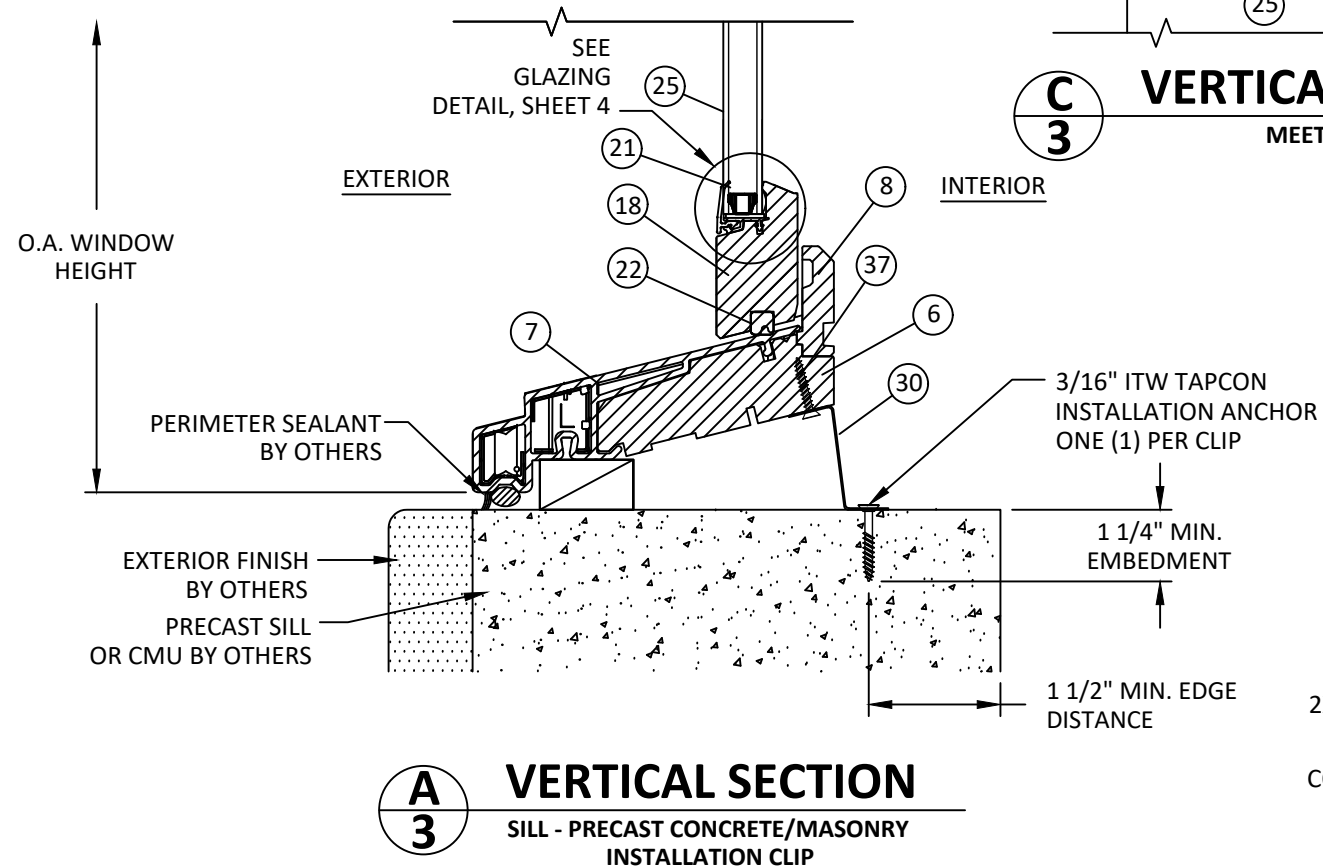
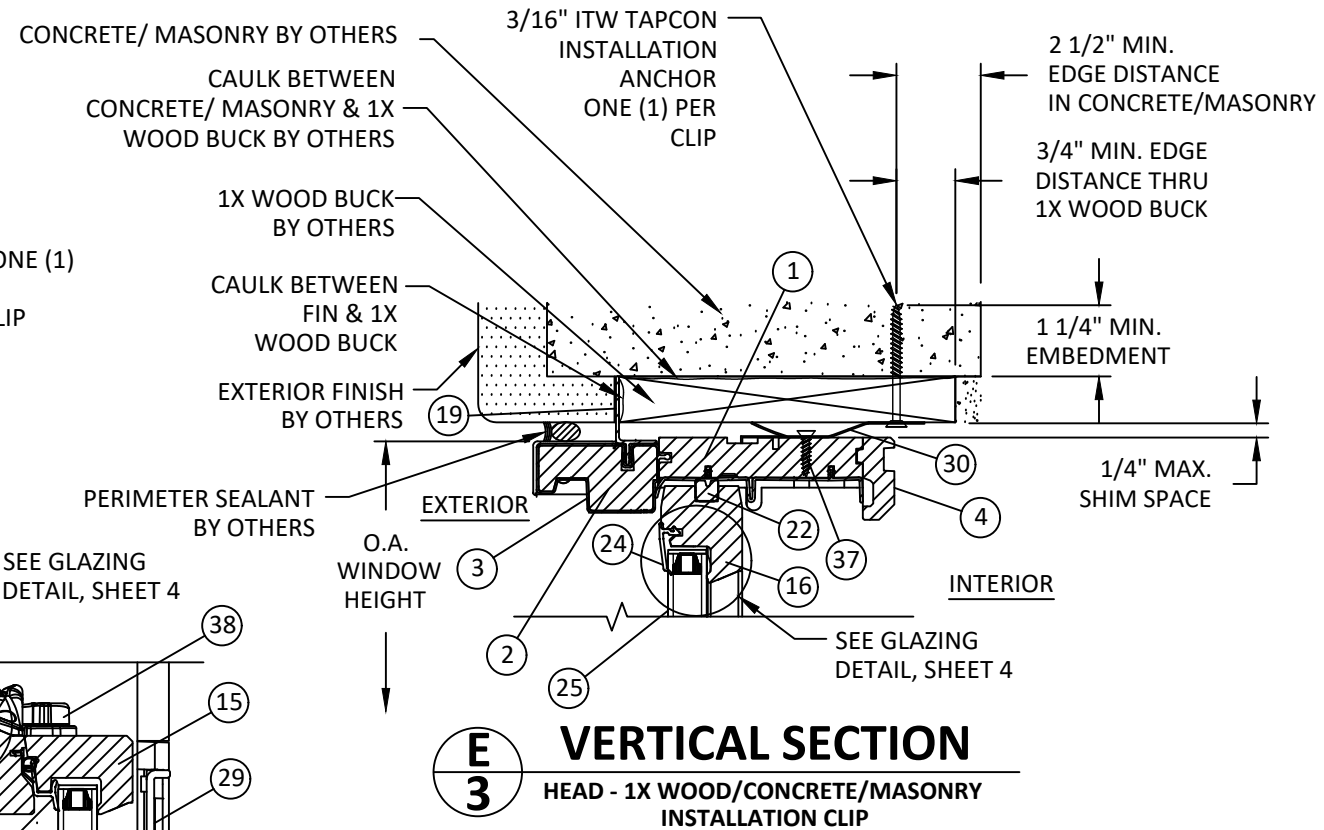
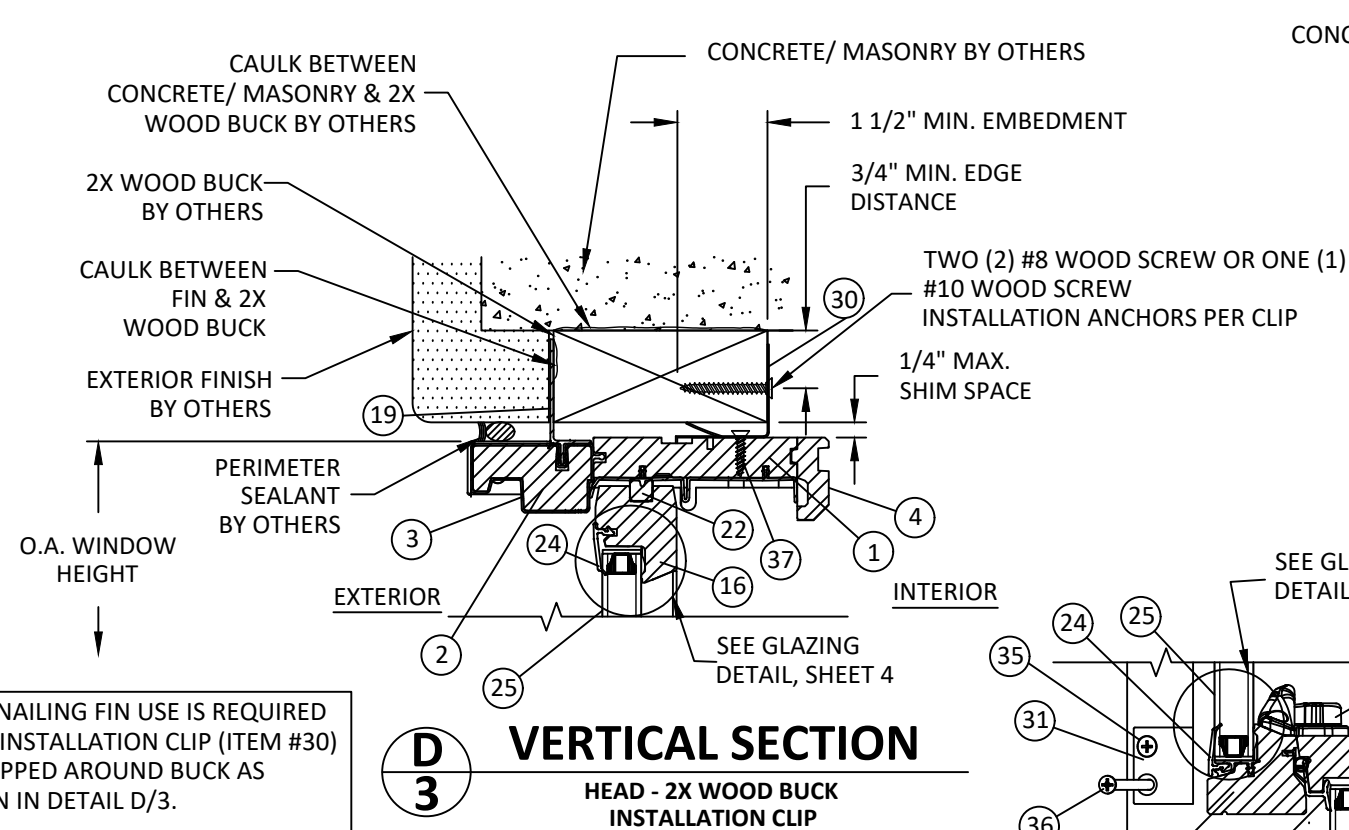
REMARKS	BY	DATE
5TH EDITION FBC UPDATES	SM	4.14.15
DP CORRECTIONS & NOTE 9 ADD.	LA	6.06.17
7TH FBC CODE CHANGE	SR	3.19.20
8TH FBC CODE CHANGE	OL	6.01.23

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 #:	FL15752
DATE:	06.14.12
DWG. BY:	CHK. BY:
MSS	HFN
SCALE:	NTS
DWG. #:	AWD052
SHEET:	

6/7/2023 3:26 PM
z:\projects\andersen\windows\cc-23-0347 - fbc 2023 code change (8th edition)\dwg\115752\awd052.dwg



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 400 SERIES TILT WASH
DOUBLE HUNG WINDOW
(NON-HVHZ)/(NON-IMPACT)
VERTICAL SECTIONS

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

REMARKS	BY	DATE
5TH EDITION FBC UPDATES	SM	4.14.15
DP CORRECTIONS & NOTE 9 ADD.	LA	6.06.17
7TH FBC CODE CHANGE	SR	3.19.20
8TH FBC CODE CHANGE	OL	6.01.23

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 #: FL15752

DATE: 06.14.12

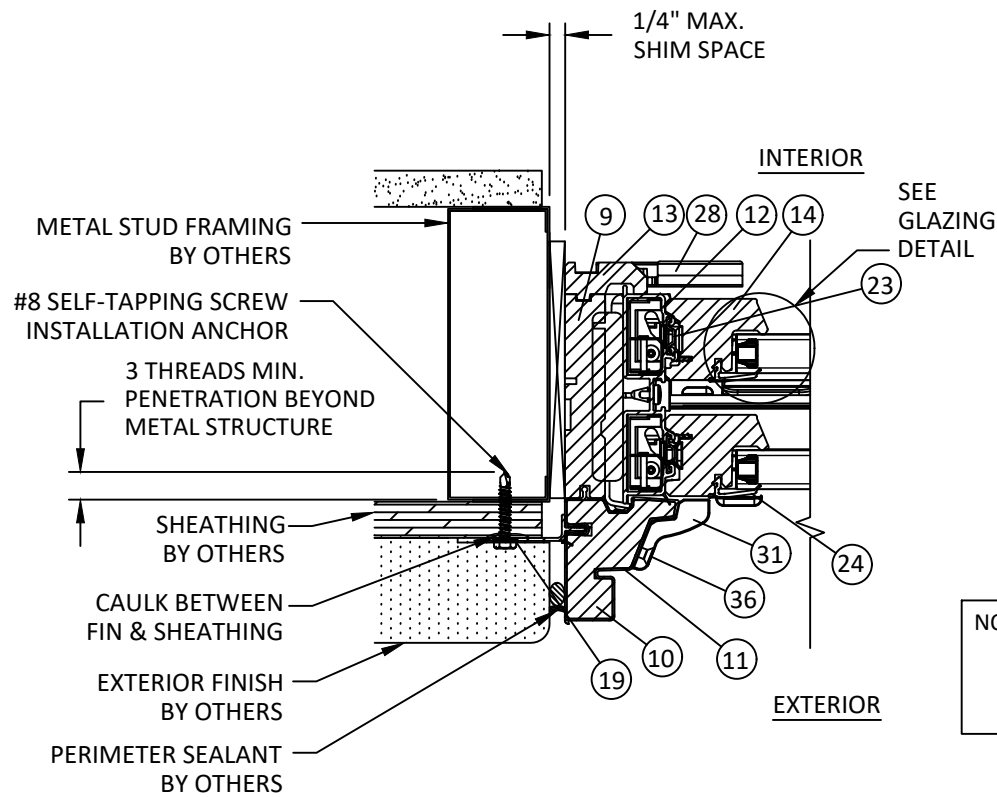
DWG. BY: MSS
CHK. BY: HFN

SCALE: NTS

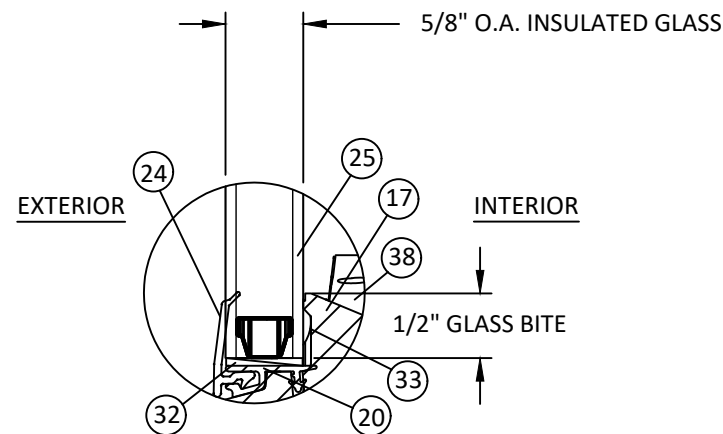
DWG. #: AWD052

SHEET: 3

6/7/2023 3:26 PM
z:\projects\andersen windows\cc-23-0347 - fbc 2023 code change (8th edition)\dwgs\115752\awd052.dwg



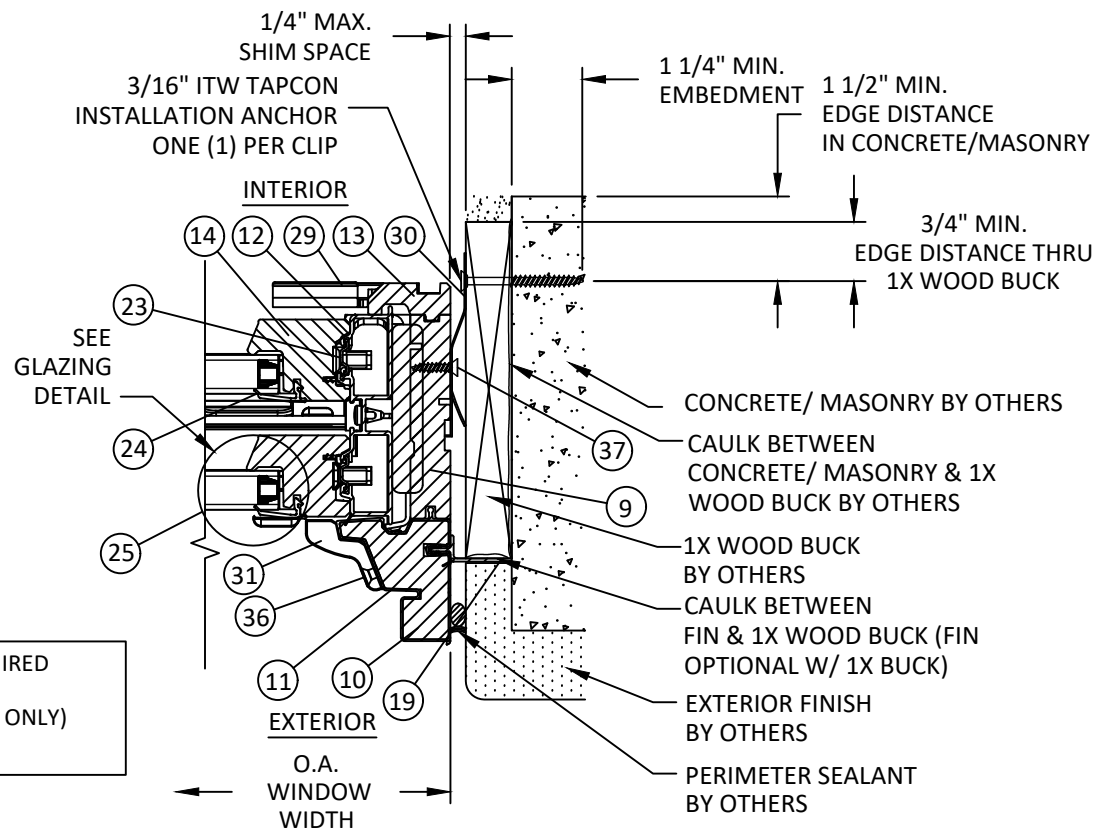
F
4 **HORIZONTAL SECTION**
JAMB - METAL STUD FRAME
NAILING FIN



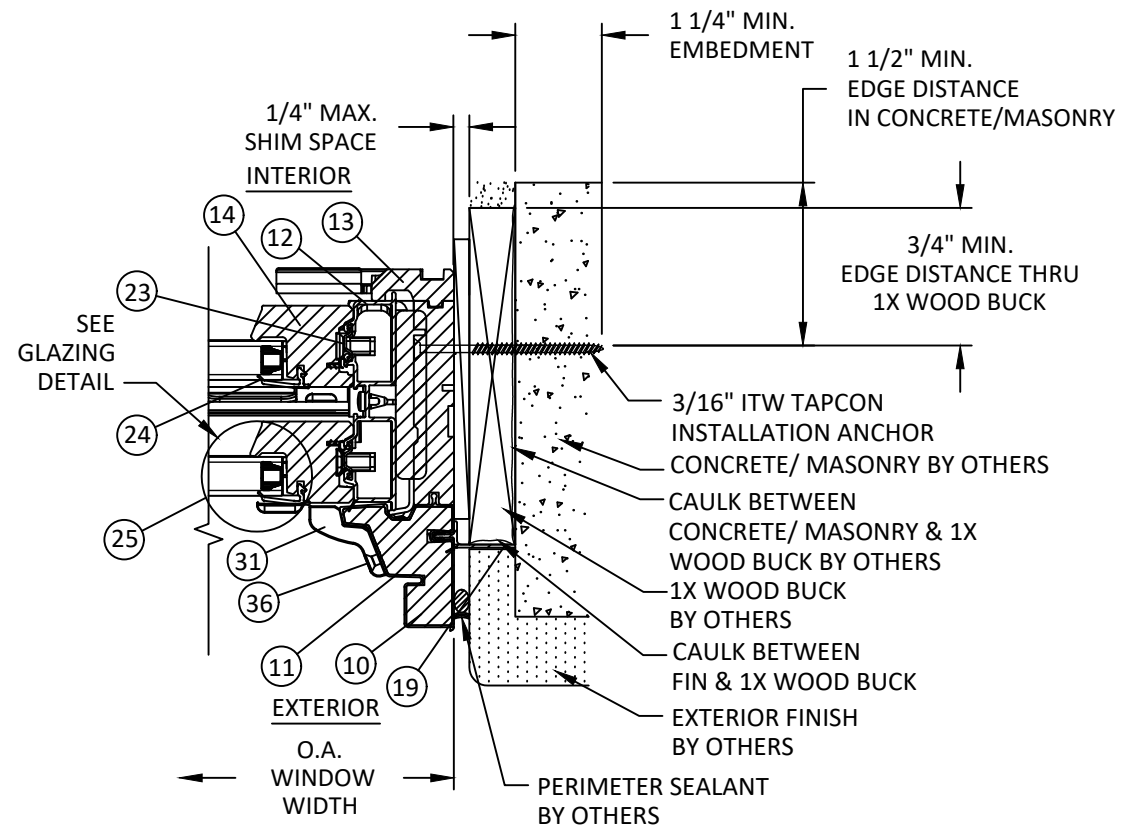
GLAZING DETAIL 1

- GLAZING NOTES:
1. GLAZING SHALL COMPLY WITH ASTM E1300 AND FBC SAFETY GLAZING REQUIREMENTS.
 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 SHOWN ON ELEVATIONS.

NOTE: ITEMS 28, 29, 31, & 36 ARE ONLY REQUIRED FOR UNITS OF 76.875" IN HEIGHT OR TALLER (I.E. FOR MONUMENTAL UNITS ONLY) AS SHOWN IN DETAILS F/4 & G/4.



G
4 **HORIZONTAL SECTION**
JAMB - 1X WOOD/CONCRETE/MASONRY
INSTALLATION CLIP



H
4 **HORIZONTAL SECTION**
JAMB - 1X WOOD/CONCRETE/MASONRY
THROUGH FRAME



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 400 SERIES TILT WASH
DOUBLE HUNG WINDOW
(NON-HVHZ)/(NON-IMPACT)
HORIZONTAL SECTIONS
& GLAZING DETAIL

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

REMARKS	BY	DATE
5TH EDITION FBC UPDATES	SM	4.14.15
DP CORRECTIONS & NOTE 9 ADD.	LA	6.06.17
7TH FBC CODE CHANGE	SR	3.19.20
8TH FBC CODE CHANGE	OL	6.01.23

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 #:

FL15752

DATE: **06.14.12**

DWG. BY:
MSS

CHK. BY:
HFN

SCALE: **NTS**

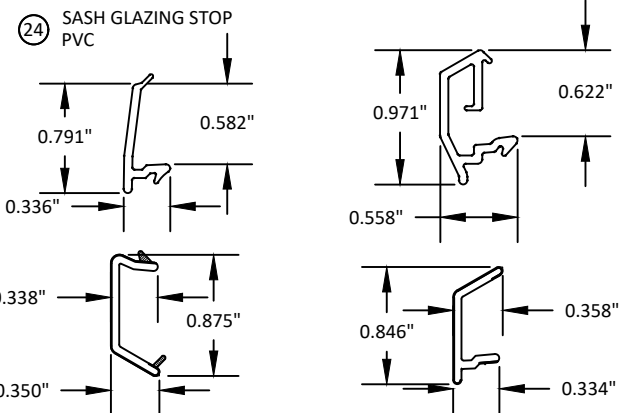
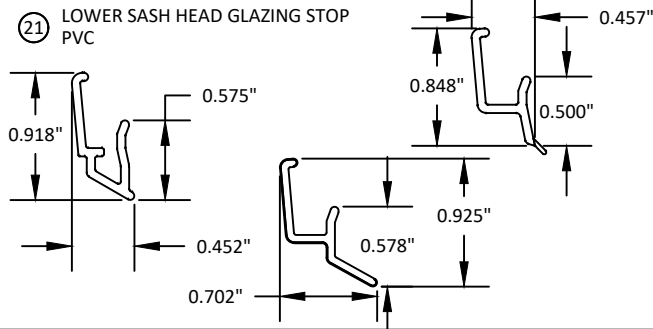
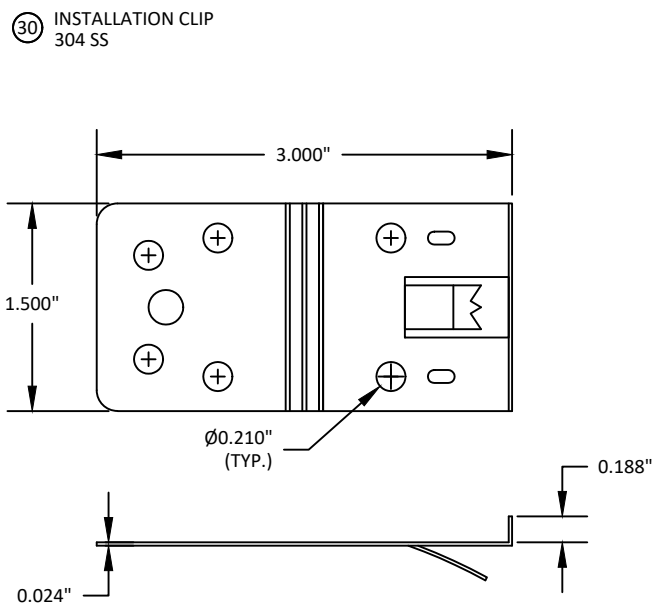
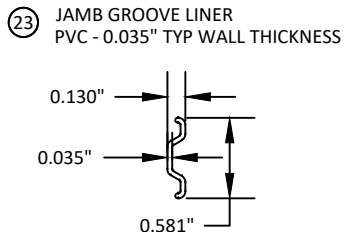
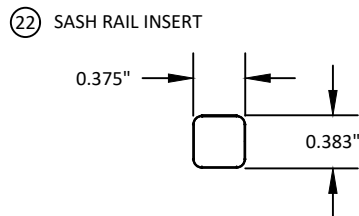
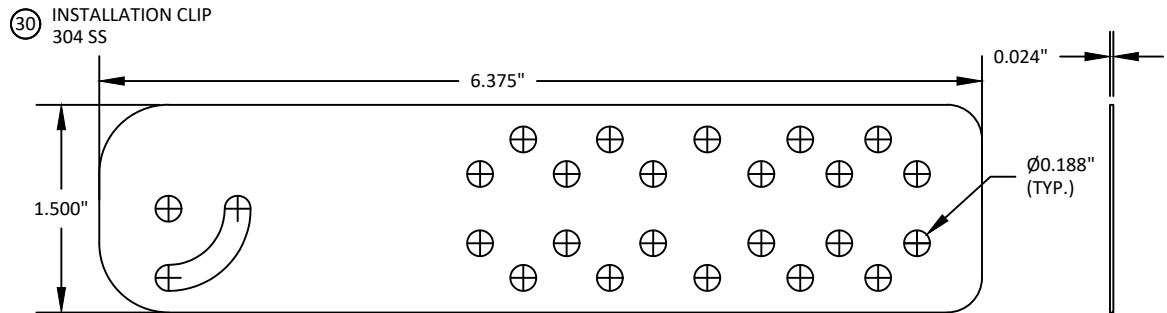
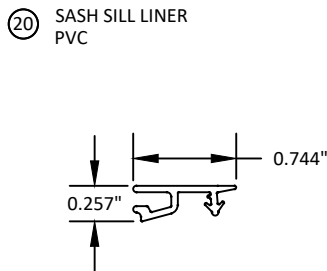
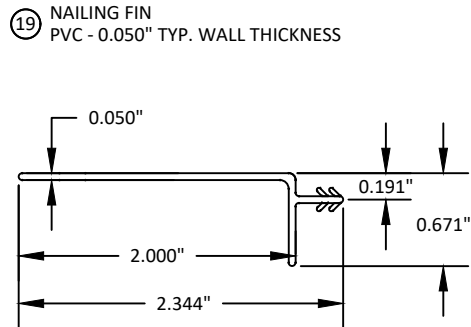
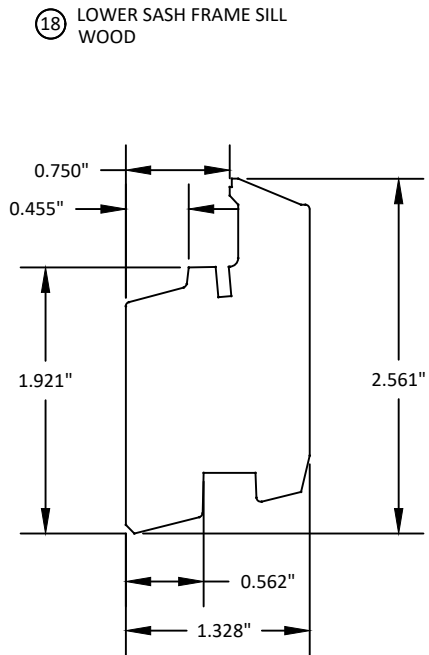
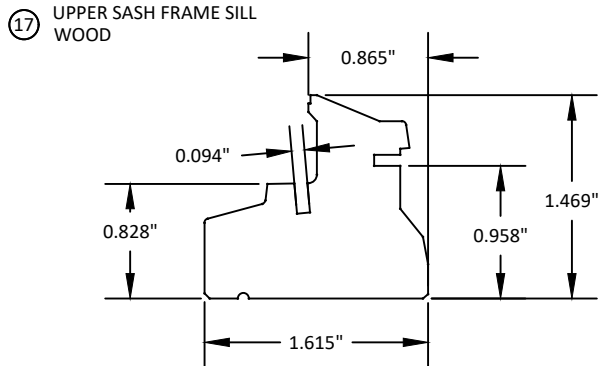
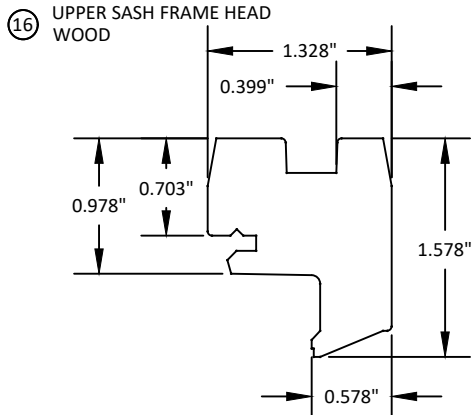
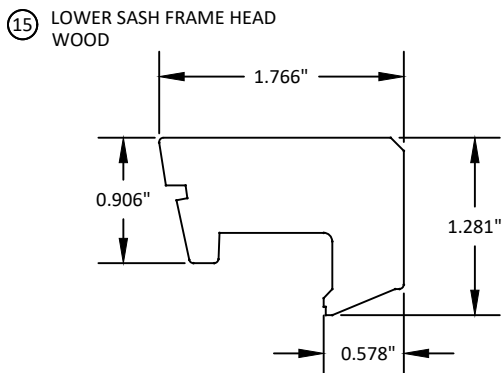
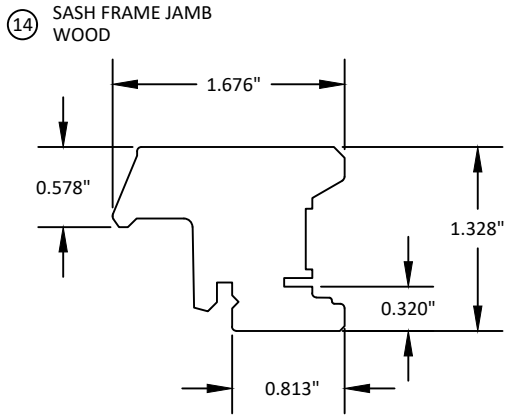
DWG. #: **AWD052**

SHEET:

4

OF 10

6/7/2023 3:26 PM
z:\projects\andersen windows\cc-23-0347 - fbc 2023 code change (8th edition)\dwgs\115752\awd052.dwg



BILL OF MATERIALS				
NO	PART NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER
1		FRAME HEAD	WOOD	ANDERSEN
2		HEAD OUTER FRAME	WOOD	ANDERSEN
3		HEAD OUTER FRAME COVER	PVC	ANDERSEN
4		INTERIOR STOP HEAD	WOOD	ANDERSEN
5		HEAD LINER	PVC	ANDERSEN
6		FRAME SILL	WOOD	ANDERSEN
7		SILL COVER	PVC	ANDERSEN
8		INTERIOR STOP SILL	WOOD	ANDERSEN
9		FRAME JAMB	WOOD	ANDERSEN
10		JAMB OUTER FRAME	WOOD	ANDERSEN
11		JAMB OUTER FRAME COVER	PVC	ANDERSEN
12		JAMB LINER	PVC	ANDERSEN
13		INTERIOR STOP JAMB	WOOD	ANDERSEN
14		SASH FRAME JAMB	WOOD	ANDERSEN
15		LOWER SASH FRAME HEAD	WOOD	ANDERSEN
16		UPPER SASH FAME HEAD	WOOD	ANDERSEN
17		UPPER SASH FRAME SILL	WOOD	ANDERSEN
18		LOWER SASH FRAME SILL	WOOD	ANDERSEN
19		NAILING FIN	PVC	ANDERSEN
20		SASH SILL LINER	PVC	ANDERSEN
21		LOWER SASH HEAD GLAZING STOP	PVC	ANDERSEN
22		SASH RAIL INSERT		
23		JAMB GROOVE LINER	PVC	ANDERSEN
24		SASH GLAZING STOP	PVC	ANDERSEN
25		5/8" O.A. INSULATED GLASS (SHALL CONFORM TO ASTM E1300-04)		
28		WIND LOAD BRACKET, LH	STEEL	ANDERSEN
29		WIND LOAD BRACKET, RH	STEEL	ANDERSEN
30		INSTALLATION CLIP	304 SS	ANDERSEN
31		OFM BRACKET	ZINC ALLOY	
32		SETTING BLOCK		
33		DOW 1199	SILICONE	DOW CORNING
34		WEATHER STRIPPING	POLYPROPELENE	
35		#8-15 X 1-1/4" PAN HEAD SCREW	STEEL	
36		#8-15 X 3" PAN HEAD SCREW	STEEL	
37		#8-15 X 1" FLAT HEAD SCREW	STEEL	
38		SASH LOCK ASSEMBLY	PLASTIC	
39		MULL SPACER	RIGID PVC	ANDERSEN
40		EXTERIOR TRIM STRIP	RIGID PVC	ANDERSEN
41		MULL JOINING CLIP	GALV. STEEL	ANDERSEN
42		SILL GUSSET PLATE	STEEL	ANDERSEN
43		HEAD/JAMB GUSSET PLATE	STEEL	ANDERSEN
44		V-NOTCH GUSSET (FOR STEEL MULL)	GALV. STEEL	ANDERSEN
45		3/16" X 4" STEEL MULL REINFORCEMENT	A36 STEEL	ANDERSEN
46		SASH RETAINER CLIP	NYLON	ANDERSEN
47		LINEAR REINFORCEMENT BRACKET	STEEL	ANDERSEN

NOTE: ALL WOOD TO BE PONDEROSA PINE OR EQUAL



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 400 SERIES TILT WASH
DOUBLE HUNG WINDOW
(NON-HVHZ)/(NON-IMPACT)
COMPONENTS & 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



REMARKS	BY	DATE
5TH EDITION FBC UPDATES	SM	4.14.15
DP CORRECTIONS & NOTE 9 ADD.	LA	6.06.17
7TH FBC CODE CHANGE	SR	3.19.20
8TH FBC CODE CHANGE	OL	6.01.23

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 #:

FL15752

DATE: 06.14.12

DWG. BY: MSS

CHK. BY: HFN

SCALE: NTS

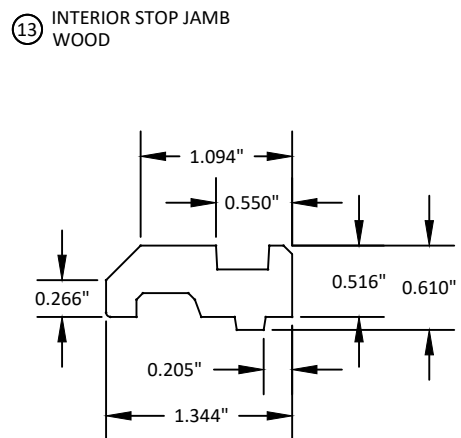
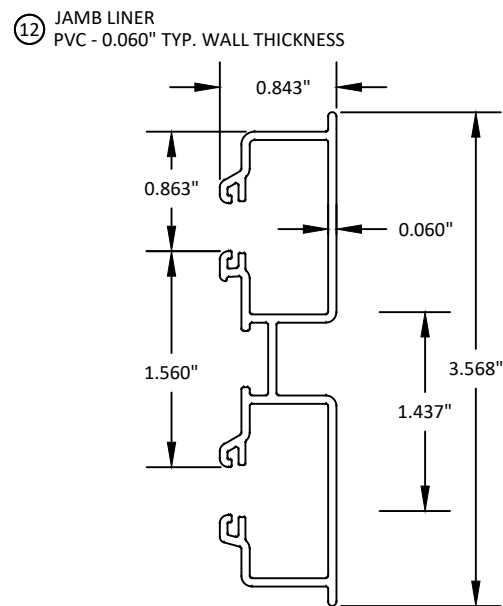
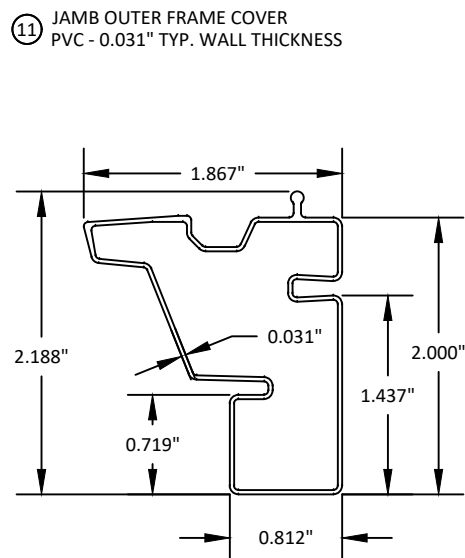
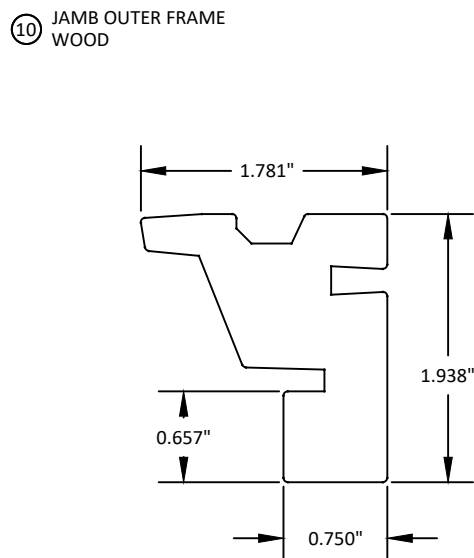
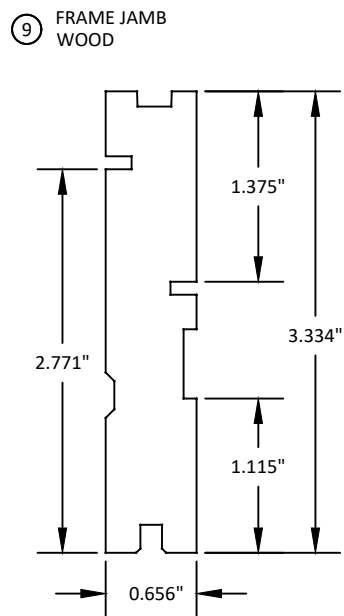
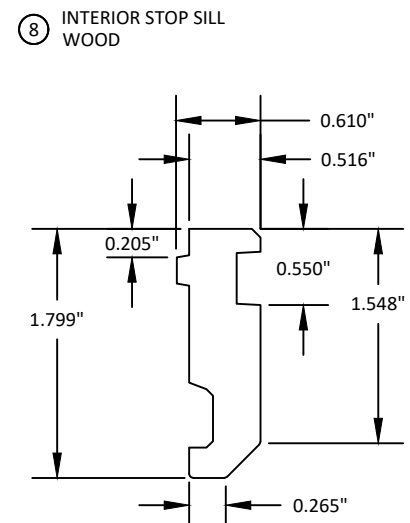
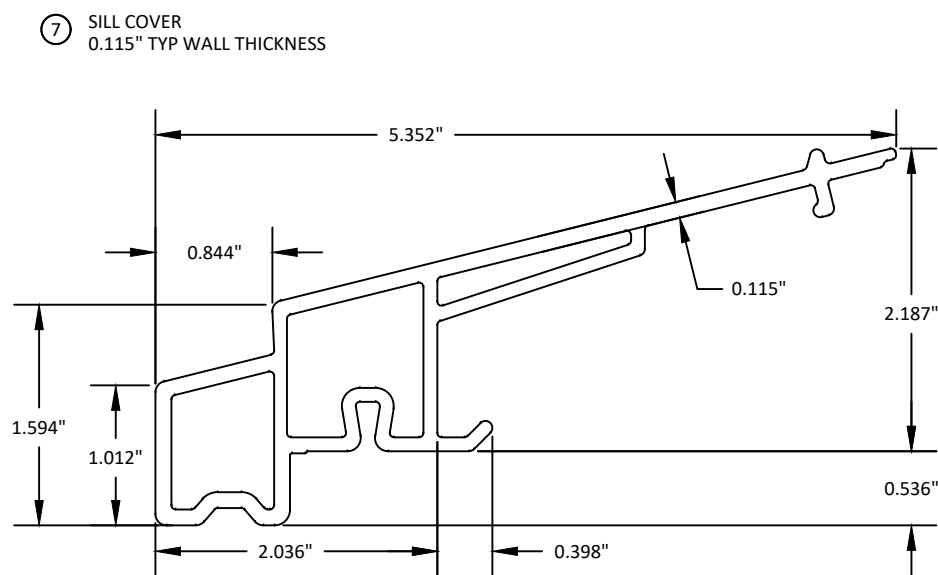
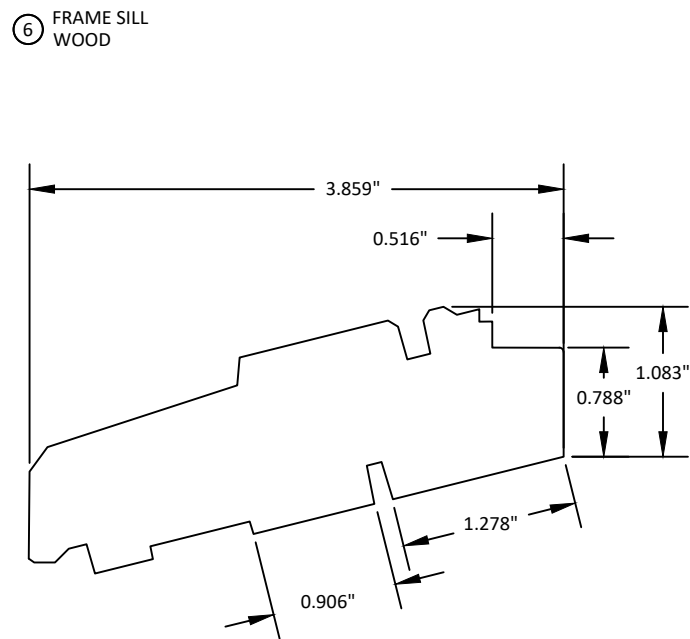
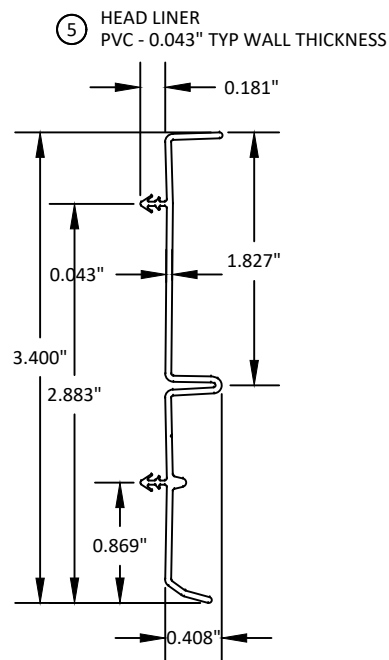
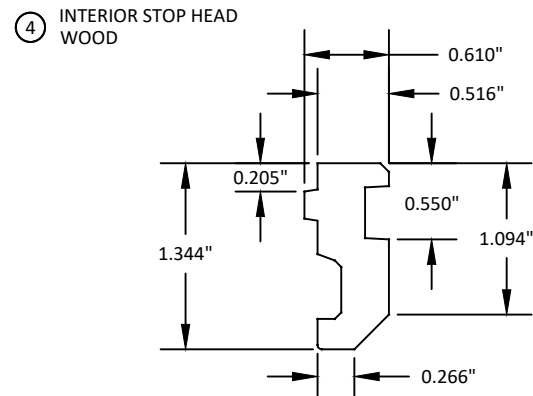
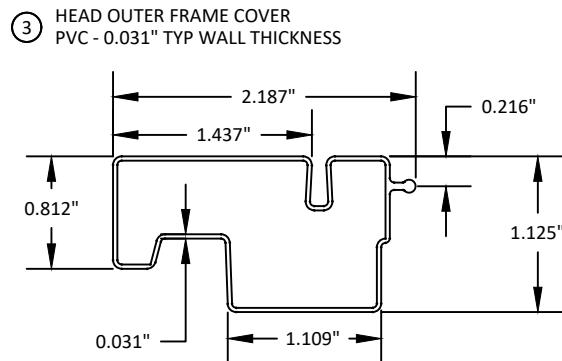
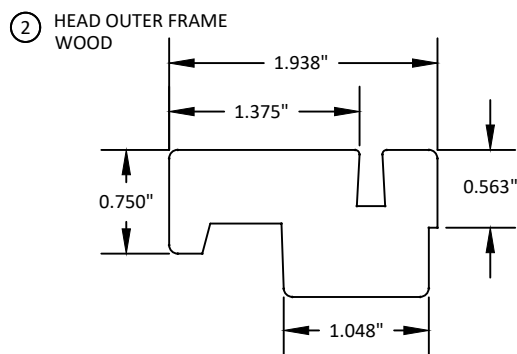
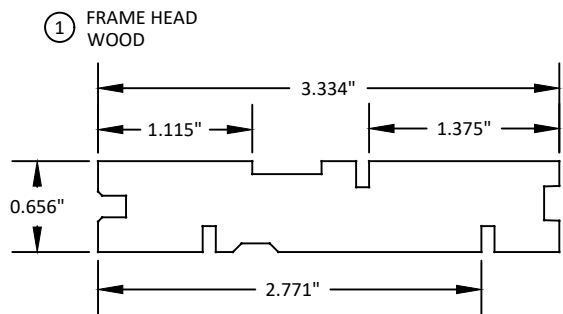
DWG. #: AWD052

SHEET:

5

OF 10

6/7/2023 3:26 PM
z:\projects\andersen windows\cc-23-0347 - fbc 2023 code change (8th edition)\dwg\115752\awd052.dwg



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 400 SERIES TILT WASH
DOUBLE HUNG WINDOW
(NON-HVHZ)(NON-IMPACT)
COMPONENTS (1)

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



REMARKS	BY	DATE
5TH EDITION FBC UPDATES	SM	4.14.15
DP CORRECTIONS & NOTE 9 ADD.	LA	6.06.17
7TH FBC CODE CHANGE	SR	3.19.20
8TH FBC CODE CHANGE	OL	6.01.23

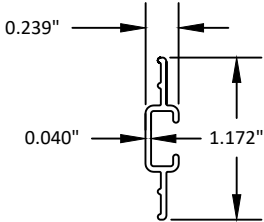
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC
AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC
SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE
FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC
DOCUMENTS FOR USE WITH THIS DOCUMENT.



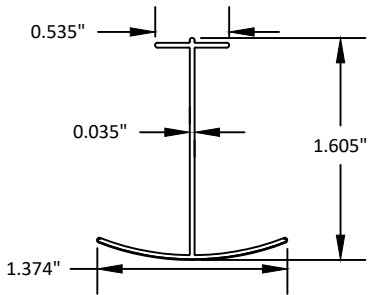
FL #:	FL15752
DATE:	06.14.12
DWG. BY:	MSS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD052
SHEET:	6

6/7/2023 3:26 PM
z:\projects\andersen windows\cc-23-0347 - fbc 2023 code change (8th edition)\dwgs\115752\awd052.dwg

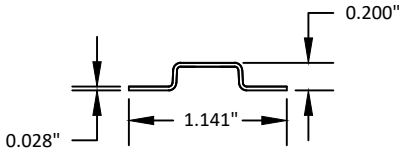
39 MULL SPACER
RIGID PVC



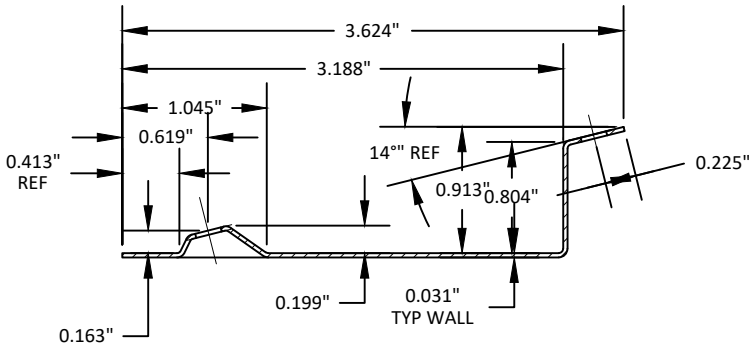
40 EXTERIOR TRIM STRIP
RIGID PVC



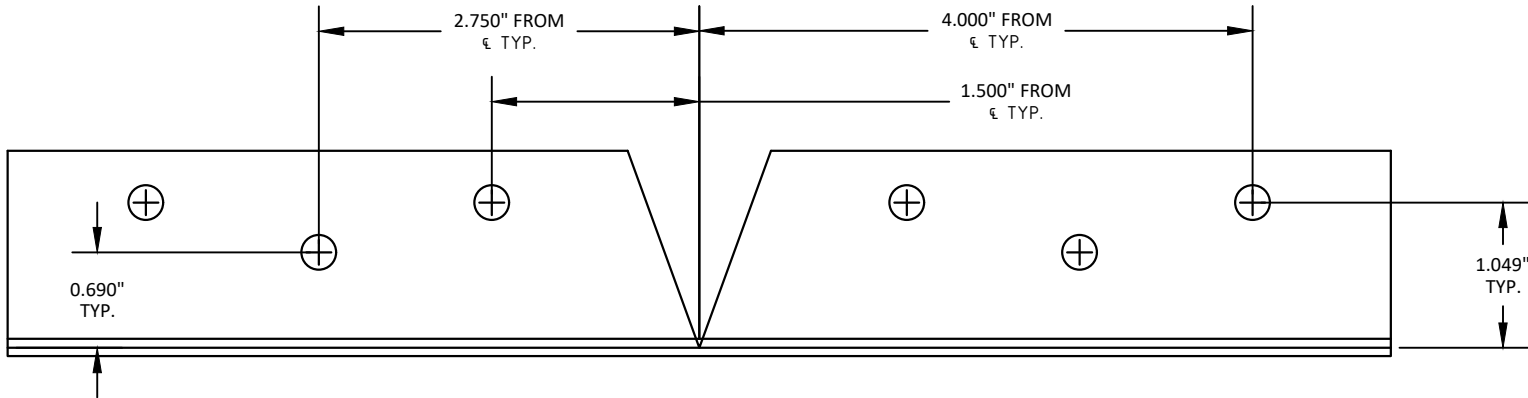
41 MULL JOINING CLIP
GALV. STEEL



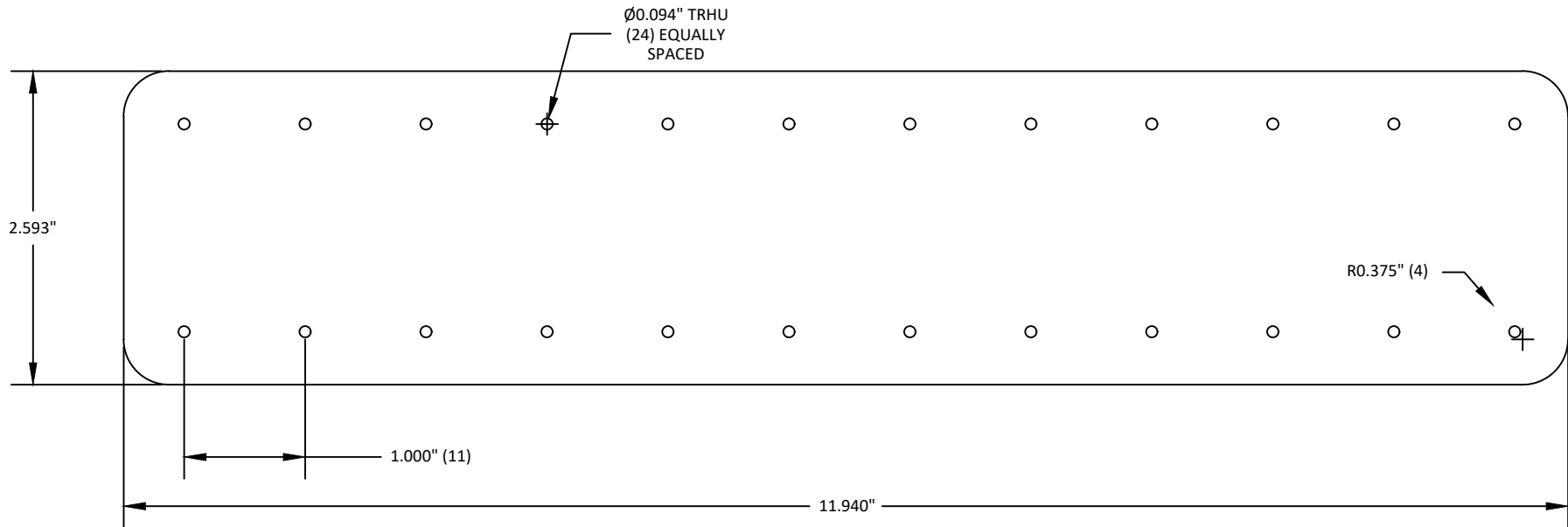
42 SILL GUSSET PLATE
STEEL



44 V-NOTCH GUSSET
GALV. STEEL
16 GA.



43 HEAD/JAMB GUSSET PLATE
STEEL



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

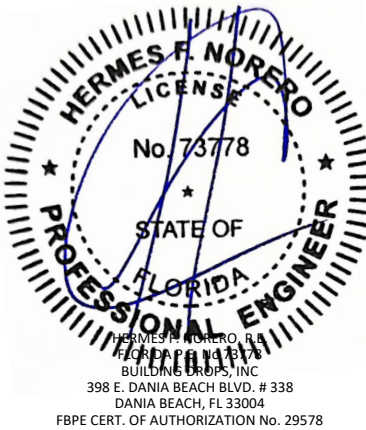
TITLE: 400 SERIES TILT WASH
DOUBLE HUNG WINDOW
(NON-HVHZ)(NON-IMPACT)
COMPONENTS (2)

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



REMARKS	BY	DATE
5TH EDITION FBC UPDATES	SM	4.14.15
DP CORRECTIONS & NOTE 9 ADD.	LA	6.06.17
7TH FBC CODE CHANGE	SR	3.19.20
8TH FBC CODE CHANGE	OL	6.01.23

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 #:
FL15752

DATE: **06.14.12**

DWG. BY: **MSS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD052**

SHEET:

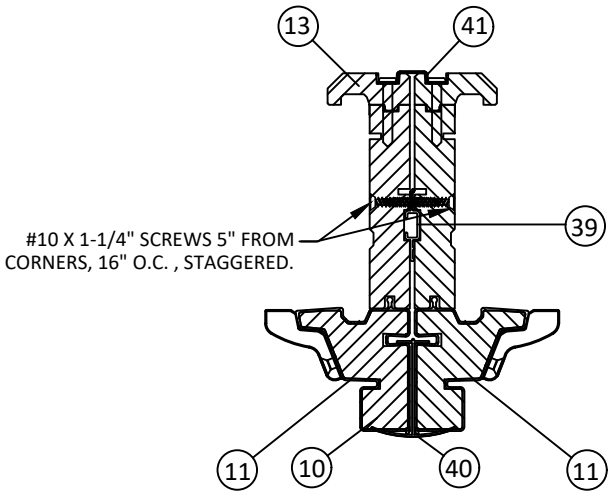
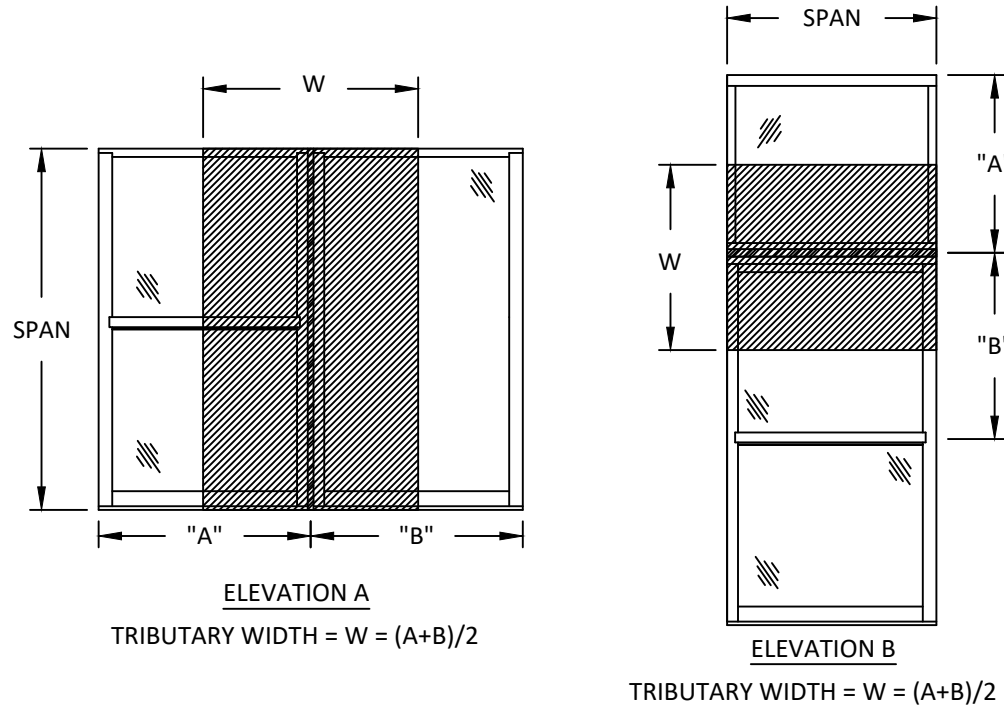
7

OF 10

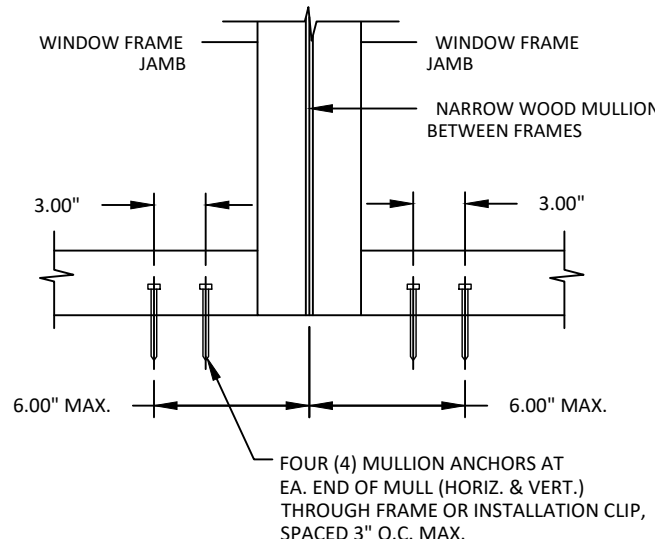
Maximum design pressure capacity chart (psf)
400 Series TW/TWT/DHP/CTN Wood Mullion
Design pressures are limited by mullion capacity only.

Span (in)	Tributary width (in)															
	12.0	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	
24.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
30.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
36.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
42.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
48.0	80.0	80.0	80.0	68.1	60.8	56.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	
54.0	80.0	80.0	62.6	52.2	45.8	41.9	39.7	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	
60.0	80.0	65.1	50.1	41.4	35.9	32.4	30.1	28.9	28.4	28.4	28.4	28.4	28.4	28.4	28.4	
66.0	79.2	53.5	41.0	33.6	29.0	25.9	23.8	22.4	21.6	21.4	21.4	21.4	21.4	21.4	21.4	
72.0	66.4	44.8	34.2	27.9	23.9	21.2	19.3	18.0	17.1	16.6	16.5	16.5	16.5	16.5	16.5	
78.0	56.5	38.1	29.0	23.6	20.1	17.7	16.0	14.8	14.0	13.4	13.1	12.9	12.9	12.9	12.9	
84.0	48.7	32.7	24.9	20.2	17.2	15.1	13.6	12.5	11.7	11.1	10.7	10.4	10.4	10.4	10.4	
90.0	42.4	28.5	21.6	17.5	14.8	13.0	11.6	10.6	9.9	9.3	8.9	8.6	8.5	8.4	8.4	
96.0	37.2	25.0	18.9	15.3	12.9	11.3	10.1	9.2	8.5	8.0	7.6	7.3	7.1	7.0	6.9	

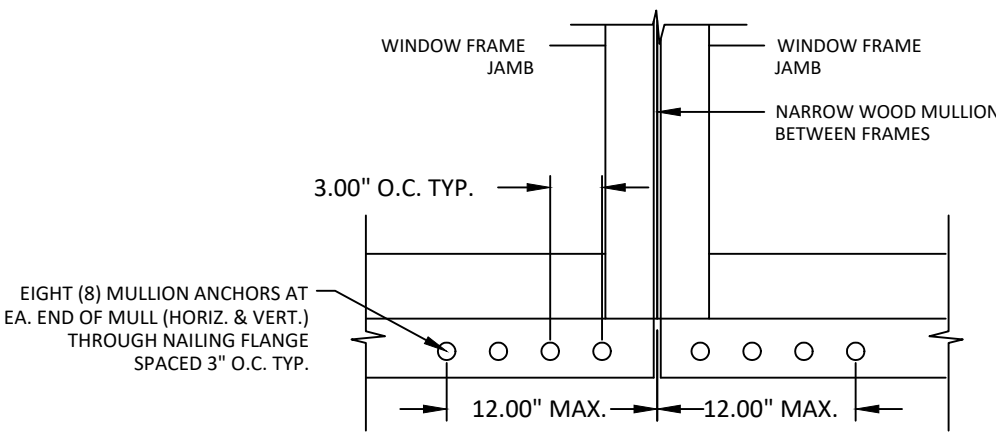
- NOTE:
- 1) MULLION CHART APPLIES TO NARROW WOOD MULLION ASSEMBLIES, SEE TYP. DETAIL I/8, WHEN USED TO MULL WINDOWS IN CONFIGURATIONS SHOWN IN ELEVATIONS A & B.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW UNIT OF INSTALLATION.
 - 5) MULLION CHART ABOVE APPLIES TO MULLED ASSEMBLIES CONSISTING OF 400 SERIES TW DOUBLE HUNG WINDOWS, CTN, PICTURE, AND TRANSOM WINDOWS. CTN, PICTURE AND TRANSOM WINDOWS UNDER SEPARATE APPROVAL
 - 6) ADJACENT WINDOWS SHALL BE FASTENED TO THE ROUGH OPENING WITH ADDITIONAL ANCHORS IN ACCORDANCE WITH DETAILS J/8 & K/8, SHEET 8.



I/8 HORIZONTAL SECTION
TW-TW OR TWT-DHP-TWT



J/8 FRONT VIEW
MULLION ANCHOR DETAIL
INSTALLATION CLIP



K/8 FRONT VIEW
MULLION ANCHOR DETAIL
NAILING FIN



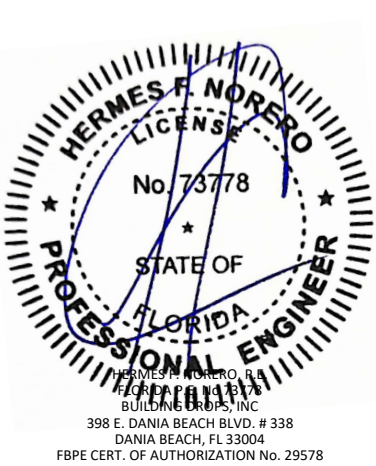
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 400 SERIES TILT WASH
DOUBLE HUNG WINDOW
(NON-HVHZ)/(NON-IMPACT)
ONE-WAY WOOD MULL DP TABLES
& MULL DETAILS

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

REMARKS	BY	DATE
5TH EDITION FBC UPDATES	SM	4.14.15
DP CORRECTIONS & NOTE 9 ADD.	LA	6.06.17
7TH FBC CODE CHANGE	SR	3.19.20
8TH FBC CODE CHANGE	OL	6.01.23

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.

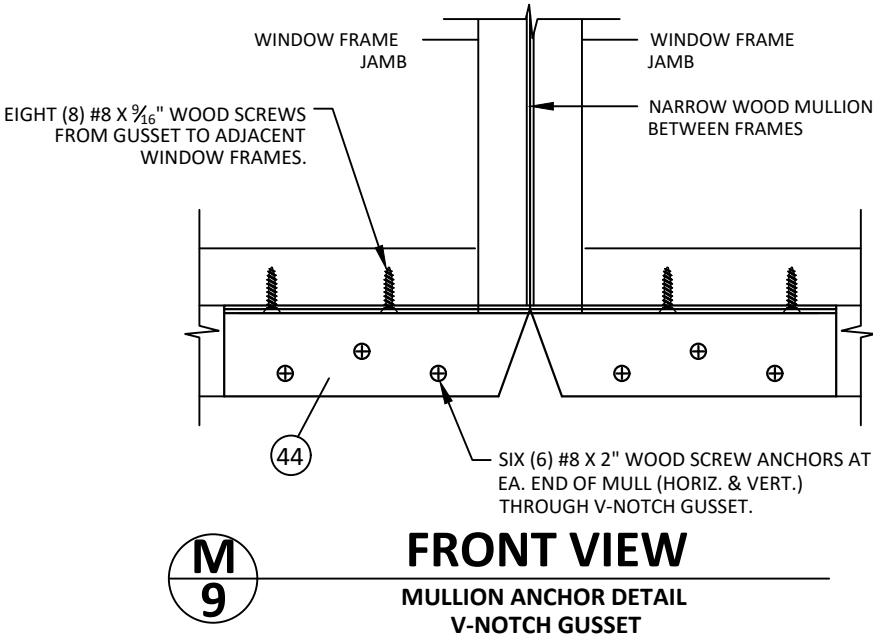
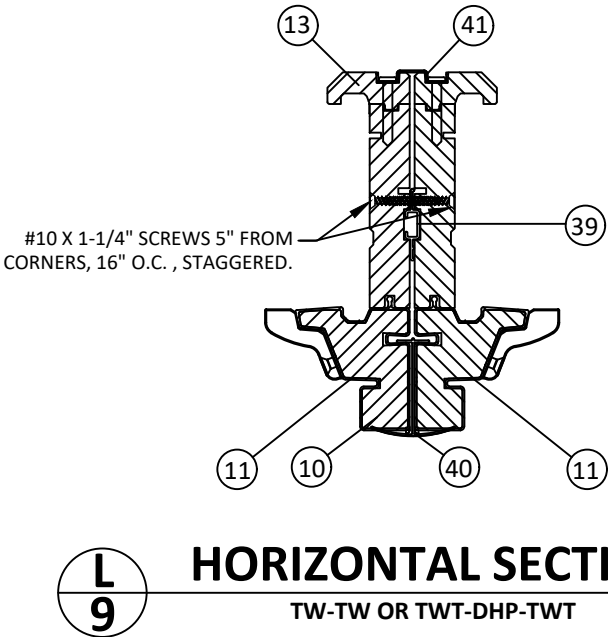
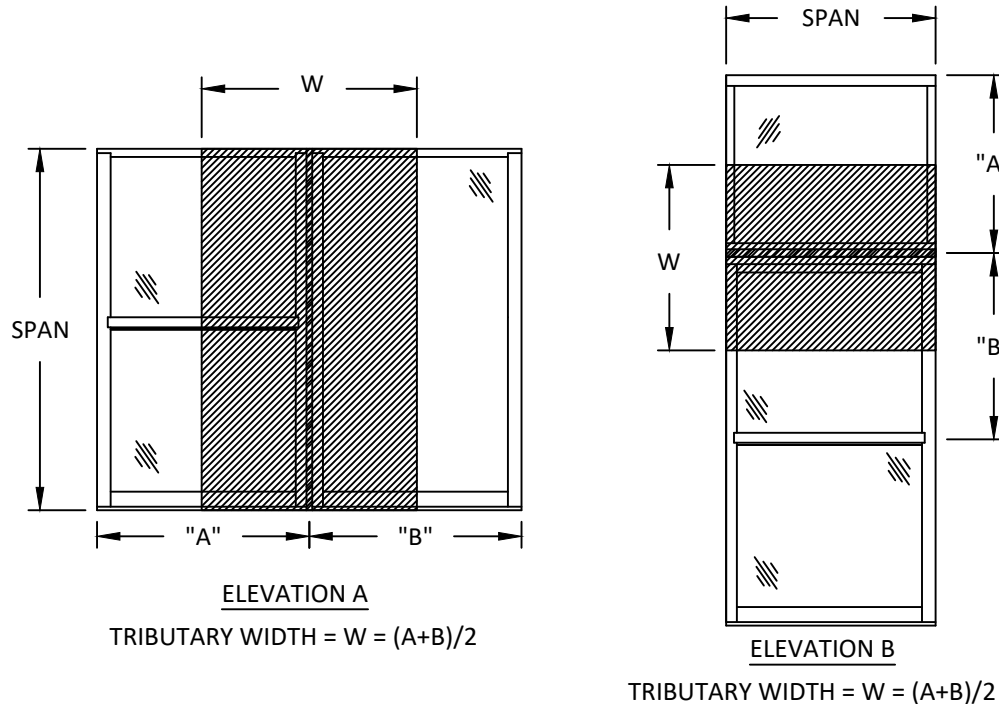


FL #:	FL15752
DATE:	06.14.12
DWG. BY:	MSS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD052

Maximum design pressure capacity chart (psf)
400 Series TW/TWT/DHP/CTN Wood Mullion with V-Notch Gusset
Design pressures are limited by mullion capacity only.

Span (in)	Tributary width (in)														
	12.0	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
24.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
54.0	80.0	80.0	80.0	80.0	72.0	65.9	62.5	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
60.0	80.0	80.0	78.8	65.1	56.5	50.9	47.4	45.4	44.7	44.7	44.7	44.7	44.7	44.7	44.7
66.0	80.0	80.0	64.5	52.9	45.6	40.7	37.4	35.3	34.0	33.6	33.6	33.6	33.6	33.6	33.6
72.0	80.0	70.5	53.8	44.0	37.7	33.4	30.4	28.3	26.9	26.2	25.9	25.9	25.9	25.9	25.9
78.0	80.0	59.9	45.6	37.1	31.7	27.9	25.2	23.3	22.0	21.1	20.5	20.4	20.4	20.4	20.4
84.0	76.6	51.5	39.1	31.8	27.0	23.7	21.3	19.6	18.3	17.4	16.8	16.4	16.3	16.3	16.3
90.0	66.7	44.8	33.9	27.5	23.3	20.4	18.3	16.7	15.6	14.7	14.0	13.6	13.3	13.3	13.3
96.0	58.6	39.3	29.7	24.1	20.4	17.8	15.9	14.5	13.4	12.6	11.9	11.5	11.2	11.0	10.9

- NOTE:
- MULLION CHART APPLIES TO NARROW WOOD MULLION ASSEMBLIES, SEE TYP. DETAIL L/9, WHEN USED TO MULL WINDOWS IN CONFIGURATIONS SHOWN IN ELEVATIONS A & B.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW UNIT OF INSTALLATION.
 - MULLION CHART ABOVE APPLIES TO MULLED ASSEMBLIES CONSISTING OF 400 SERIES TW DOUBLE HUNG WINDOWS, CTN, PICTURE, AND TRANSOM WINDOWS. CTN, PICTURE AND TRANSOM WINDOWS UNDER SEPARATE APPROVAL
 - ADJACENT WINDOWS SHALL BE FASTENED TO THE ROUGH OPENING WITH ADDITIONAL ANCHORS IN ACCORDANCE WITH DETAIL M/9, SHEET 9.



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 400 SERIES TILT WASH
DOUBLE HUNG WINDOW
(NON-HVHZ)(NON-IMPACT)
ONE-WAY WOOD MULL DP TABLES &
MULL DETAILS (W/ V-NOTCH GUSSET)

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

REMARKS	BY	DATE
5TH EDITION FBC UPDATES	SM	4.14.15
DP CORRECTIONS & NOTE 9 ADD.	LA	6.06.17
7TH FBC CODE CHANGE	SR	3.19.20
8TH FBC CODE CHANGE	OL	6.01.23

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

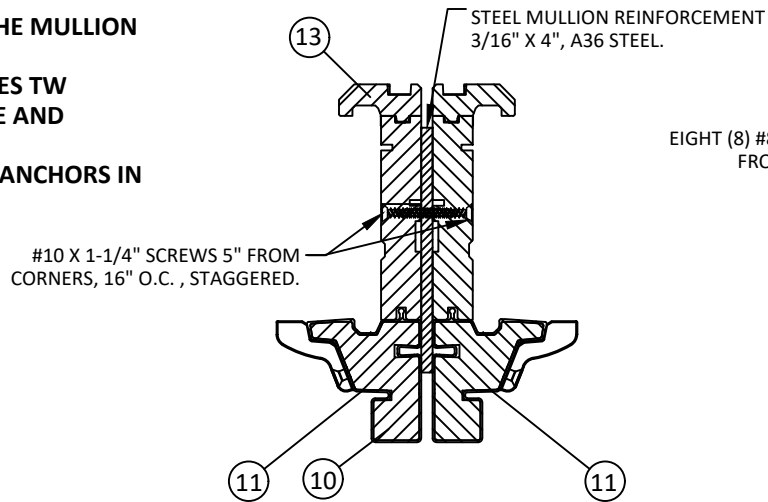
FL #:	FL15752
DATE:	06.14.12
DWG. BY:	MSS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD052
SHEET:	9

OF 10

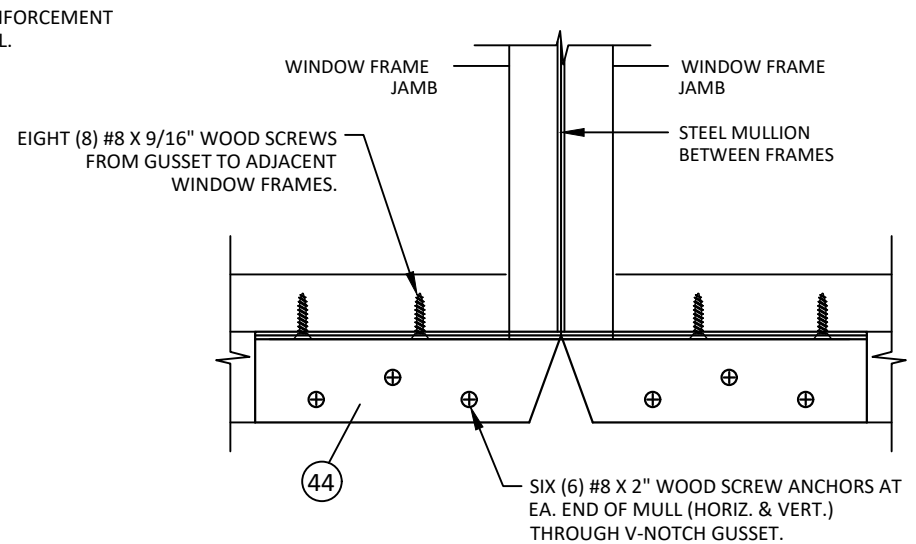
Maximum design pressure capacity chart (psf)
400 Series TW/TWT/DHP/CTN V-Notch Steel Mullion
Design pressures are limited by mullion capacity only.

Span (in.)	Tributary Width (in)														
	12.0	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0
24.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	76.5
54.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	74.3	69.0	64.4	60.4
60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	78.3	71.2	65.2	60.2	55.9	52.2	48.9
66.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	71.9	64.7	58.8	53.9	49.8	46.2	43.1	40.4
72.0	80.0	80.0	80.0	80.0	80.0	77.7	68.0	60.4	54.4	49.4	45.3	41.8	38.8	36.2	34.0
78.0	80.0	80.0	80.0	80.0	77.2	66.2	57.9	51.5	46.3	42.1	38.6	35.6	33.1	30.9	29.0
84.0	80.0	80.0	80.0	79.9	66.6	57.1	49.9	44.4	39.9	36.3	33.3	30.7	28.5	26.6	25.0
90.0	80.0	80.0	80.0	69.3	58.0	49.7	43.5	38.7	34.8	31.6	29.0	26.8	24.9	23.2	21.7
96.0	80.0	80.0	70.1	56.8	48.0	41.7	37.0	33.3	30.3	27.8	25.5	23.5	21.8	20.4	19.1
102.0	80.0	76.8	58.3	47.2	39.8	34.6	30.7	27.6	25.1	23.0	21.3	19.7	18.4	17.3	16.3
108.0	80.0	64.5	49.0	39.6	33.4	29.0	25.7	23.1	21.0	19.3	17.8	16.6	15.5	14.5	13.7
114.0	80.0	54.8	41.5	33.6	28.3	24.5	21.7	19.5	17.8	16.3	15.1	14.0	13.1	12.3	11.6
120.0	69.6	46.9	35.5	28.7	24.2	21.0	18.5	16.7	15.2	13.9	12.9	12.0	11.2	10.5	9.9
126.0	60.1	40.4	30.6	24.7	20.8	18.0	15.9	14.3	13.0	12.0	11.1	10.3	9.6	9.0	8.5
132.0	52.2	35.1	26.6	21.5	18.1	15.6	13.8	12.4	11.3	10.4	9.6	8.9	8.3	7.8	7.4
138.0	45.6	30.7	23.2	18.8	15.8	13.6	12.1	10.8	9.8	9.0	8.3	7.8	7.3	6.8	6.4
144.0	40.1	27.0	20.4	16.5	13.9	12.0	10.6	9.5	8.6	7.9	7.3	6.8	6.4	6.0	5.6

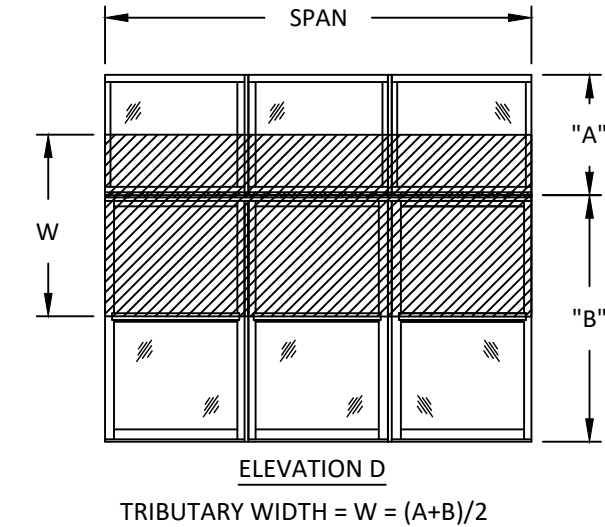
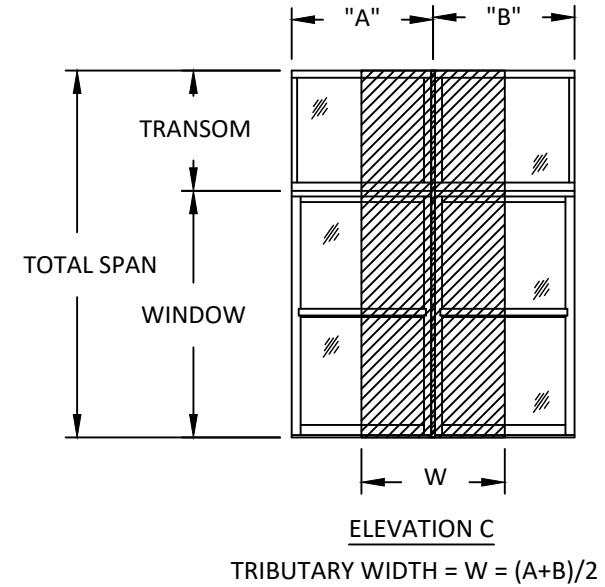
- NOTE:
- MULLION CHART APPLIES TO STEEL MULLION ASSEMBLIES, SEE TYP. DETAIL N/10, WHEN USED TO MULL WINDOWS IN CONFIGURATIONS SHOWN IN ELEVATIONS C & D.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW UNIT OF INSTALLATION.
 - MULLION CHART ABOVE APPLIES TO MULLED ASSEMBLIES CONSISTING OF 400 SERIES TW DOUBLE HUNG WINDOWS, CTN, PICTURE, AND TRANSOM WINDOWS. CTN, PICTURE AND TRANSOM WINDOWS UNDER SEPARATE APPROVAL
 - ADJACENT WINDOWS SHALL BE FASTENED TO 2X WOOD BUCKS WITH ADDITIONAL ANCHORS IN ACCORDANCE WITH DETAILS O/10, SHEET 10.



N
10 **HORIZONTAL SECTION**
TW-TW OR TWT-DHP-TWT



O
10 **FRONT VIEW**
MULLION ANCHOR DETAIL
V-NOTCH GUSSET



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 400 SERIES TILT WASH
DOUBLE HUNG WINDOW
(NON-HVHZ)/(NON-IMPACT)
ONE-WAY & TWO-WAY STEEL MULL
DP TABLES & MULL DETAILS

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

REMARKS	BY	DATE
5TH EDITION FBC UPDATES	SM	4.14.15
DP CORRECTIONS & NOTE 9 ADD.	LA	6.06.17
7TH FBC CODE CHANGE	SR	3.19.20
8TH FBC CODE CHANGE	OL	6.01.23

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 #:	FL15752
DATE:	06.14.12
DWG. BY:	MSS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD052
SHEET:	10