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

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ANDERSEN CORPORATION

RENEWAL BY ANDERSEN SERIES CASEMENT WINDOW (NON-IMPACT) (NON-HVHZ)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
   - AAMA/WDMA/CSA 101/I.S.2/A440-08/11
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL 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.
3. 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.
4. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/4 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.
5. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
7. WINDOW FRAME MATERIAL: FIBREX & PVC
8. IN ACCORDANCE WITH THE CURRENT EDITION FBC, WOOD COMPONENTS SHALL HAVE BEEN PRESERVATIVE TREATED OR SHALL BE OF A DURABLE SPECIES AS DEFINED IN CHAPTER 23.
9. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

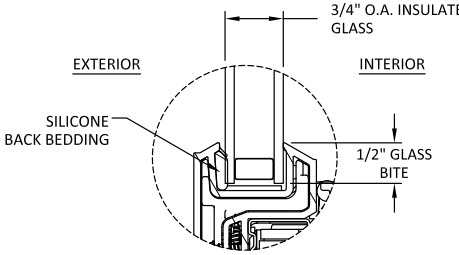
DESIGN PRESSURE RATING			
SIZE	CONFIGURATION	DESIGN PRESSURE	SASH WIDTH RATIO
32" X 80"	X	+40.0 / -40.0 PSF	---
40" X 72"	X	+40.0 / -40.0 PSF	---
70.5" X 71.5"	XX	+35.0 / -35.0 PSF	1:1
79" X 72"	XX	+30.0 / -30.0 PSF	1:1
70.5" X 60"	XX	+40.0 / -40.0 PSF	1:1
71" X 80"	XX	+25.0 / -25.0 PSF	1:1
105" X 66"	XOX	+35.0 / -35.0 PSF	1:1:1
105" X 80"	XOX	+25.0 / -25.0 PSF	1:1:1
118" X 72"	XOX	+25.0 / -25.0 PSF	1:1:1
90" X 60"	XOX	+40.0 / -40.0 PSF	1:1:1
105" X 66"	XOX	+35.0 / -35.0 PSF	1:2:1
105" X 80"	XOX	+25.0 / -25.0 PSF	1:2:1
120" X 72"	XOX	+30.0 / -30.0 PSF	1:2:1
90" X 60"	XOX	+40.0 / -40.0 PSF	1:2:1

NOTE: CUSTOM SASH RATIOS MAY BE ACHIEVED BY LOCATION OF MULL POST SUCH THAT MAXIMUM SASH D.L.O. DIMENSIONS ON SHEET 2 & 3 ARE NOT EXCEEDED

DESIGN PRESSURE UPGRADE RATING			
SIZE	CONFIGURATION	DESIGN PRESSURE	SASH WIDTH RATIO
32" X 26.99"	X	+59.0 / -77.0 PSF	---
26.99" X 34.99"	X	+59.0 / -77.0 PSF	---
32" X 78"	X	+50.0 / -65.0 PSF	---
40" X 72"	X	+50.0 / -50.0 PSF	---

NOTES:
1. DP UPGRADE PRODUCT POSITIVE RATING IS DRIVEN BY STRUCTURAL ONLY. WATER IS NOT INCLUDED.
2. DP UPGRADE PRODUCT MUST BE INSTALLED THROUGH FRAME ONLY.

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
1	-	GENERAL NOTES & GLAZING DETAIL
2	-	ELEVATIONS
3	-	ELEVATIONS
4	-	ANCHOR LAYOUTS
5	-	ANCHOR LAYOUTS
6	-	VERTICAL SECTIONS
7	-	HORIZONTAL SECTIONS
8	-	ANCHOR DETAILS
9	-	INSTALLATION NOTES & ANCHOR SCHEDULE



GLAZING DETAIL

GLAZING NOTES:
1. GLASS TYPE & THICKNESS SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
4. D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN GLASS CHARTS.

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

TITLE: RENEWAL SERIES CASEMENT WINDOW (NON-IMPACT) (NON-HVHZ) GENERAL NOTES & GLAZING DETAIL

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. STE. 338
DANIA BEACH, FL 33004
PH: (954)309-9478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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.

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Reason: I am approving this document
Date: 2018.12.17 15:51:27 -06'00'

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

FL #: FL19560

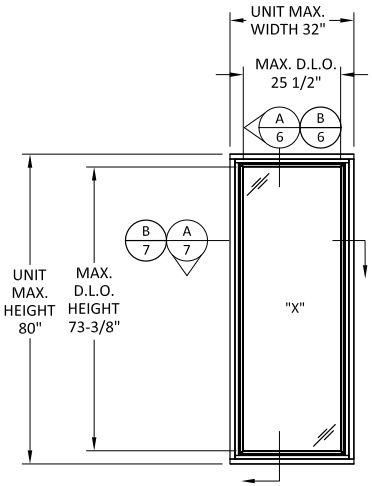
DATE: 11.06.18

DWG. BY: HR | CHK. BY: HFN

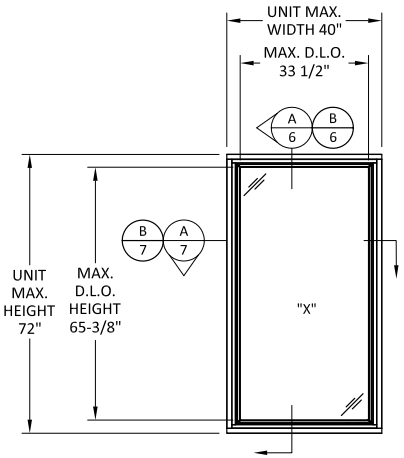
SCALE: NTS

DWG. #: AWD242

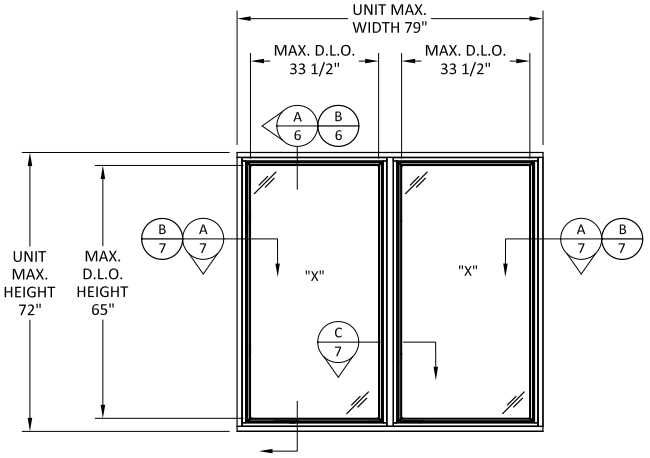
SHEET: 1 OF 9



ELEVATION
SINGLE CASEMENT
32" X 80" UNIT

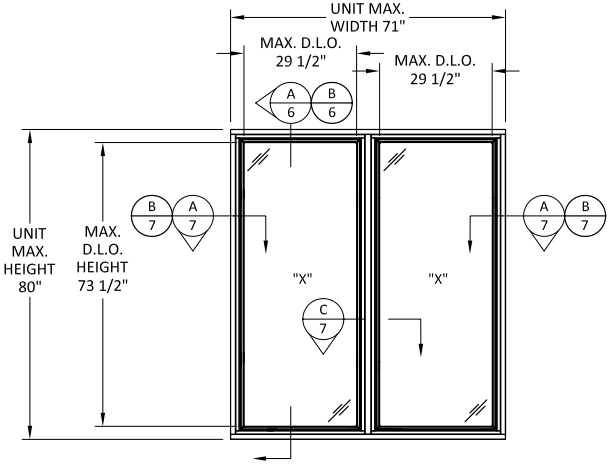


ELEVATION
SINGLE CASEMENT
40" X 72" UNIT



ELEVATION
DOUBLE CASEMENT
79" X 72" UNIT

QUALIFIED DOUBLE CASEMENT CONFIGURATIONS
XO, OX, AND OO



ELEVATION
DOUBLE CASEMENT
71" X 80" UNIT

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TITLE: RENEWAL SERIES CASEMENT WINDOW (NON-IMPACT) (NON-HVHZ) ELEVATIONS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. STE. 338
DANIA BEACH, FL 33004
PH: (954)709-9478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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BUILDING DROPS, INC
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DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL19560

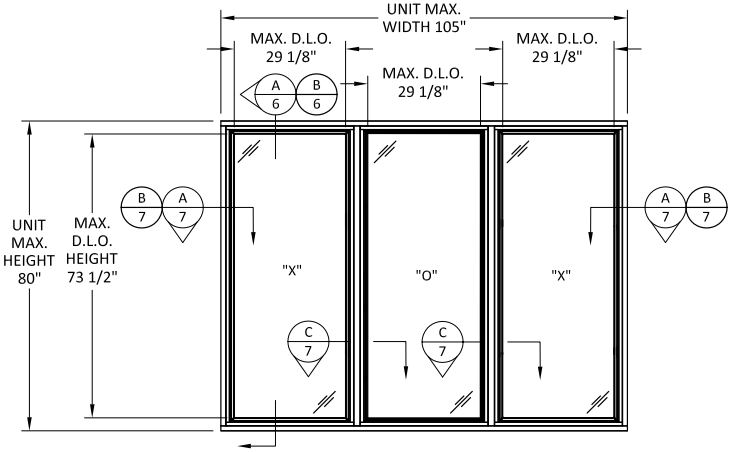
DATE: 11.06.18

DWG. BY: HR | CHK. BY: HFN

SCALE: NTS

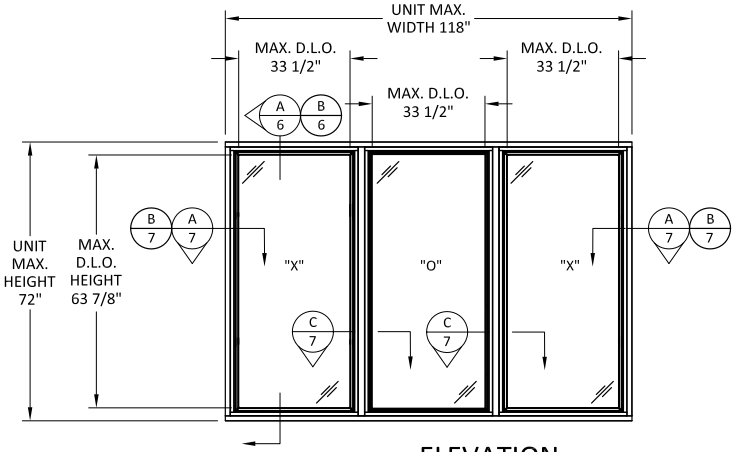
DWG. #: AWD242

SHEET: 2 OF 9



ELEVATION

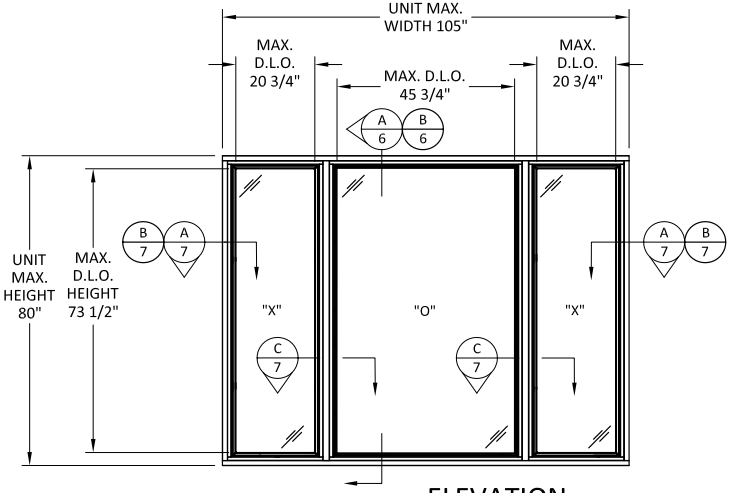
TRIPLE CASEMENT XOX
EQUAL RATIO
105" X 80" UNIT



ELEVATION

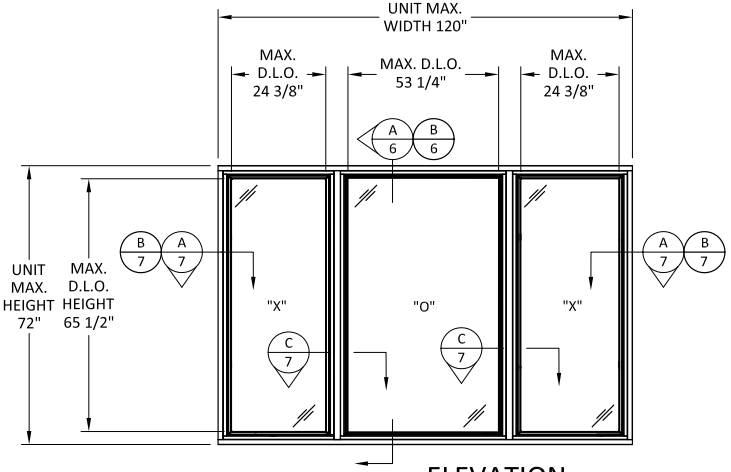
TRIPLE CASEMENT XOX
EQUAL RATIO
118" X 72" UNIT

QUALIFIED TRIPLE
CASEMENT CONFIGURATIONS
OOX, XOO, AND OOO



ELEVATION

TRIPLE CASEMENT XOX
UNEQUAL RATIO
105" X 80" UNIT



ELEVATION

TRIPLE CASEMENT XOX
UNEQUAL RATIO
120" X 72" UNIT

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TITLE: RENEWAL SERIES CASEMENT WINDOW (NON-IMPACT) (NON-HVHZ) ELEVATIONS

PREPARED BY: BUILDING DROPS, INC.
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REMARKS	BY	DATE

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

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

FL #: FL19560

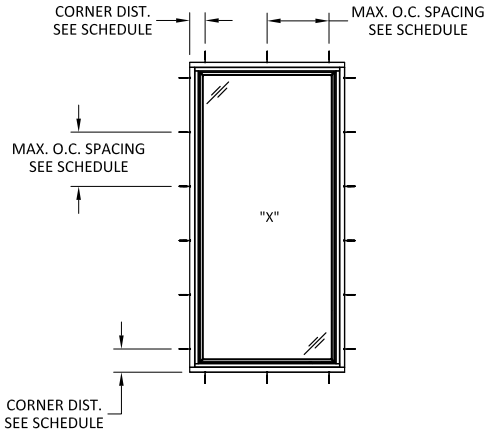
DATE: 11.06.18

DWG. BY: HR | CHK. BY: HFN

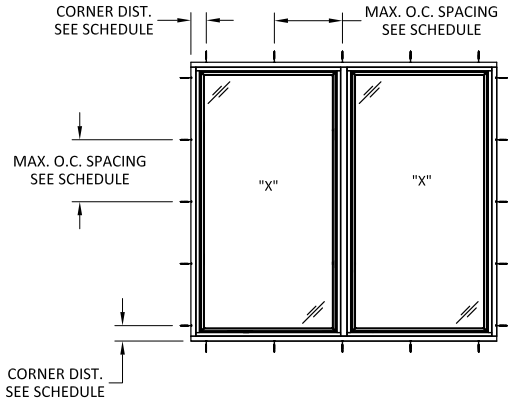
SCALE: NTS

DWG. #: AWD242

SHEET: 3 OF 9



TYPICAL ANCHOR LAYOUT
SINGLE CASEMENT



TYPICAL ANCHOR LAYOUT
DOUBLE CASEMENT

RENEWAL SERIES CASEMENT ANCHOR SPACING					
CONFIG.	INSTALLATION METHOD	FROM CORNERS (IN)	MAX. O.C. HEAD (IN)	MAX. O.C. SILL (IN)	MAX. O.C. JAMBS (IN)
SINGLE CASEMENTS	NAIL FIN	4	4	4	4
	INSTALLATION CLIP	4	18	18	18
	THROUGH FRAME	4	18	18	18
DOUBLE CASEMENTS	NAIL FIN	4	4	4	4
	INSTALLATION CLIP	4	18	18	18
	THROUGH FRAME	4	12.625	12.625	18

DP UPGRADE RENEWAL SERIES CASEMENT ANCHOR SPACING					
CONFIG.	INSTALLATION METHOD	FROM CORNERS (IN)	MAX. O.C. HEAD (IN)	MAX. O.C. SILL (IN)	MAX. O.C. JAMBS (IN)
SINGLE CASEMENT	THROUGH FRAME	4	8	8	8

1) ANY TYPICAL SUBSTRATE SHOWN HEREIN MAY BE USED AT THE HEAD, JAMBS, OR SILL. EDGE DISTANCE AND EMBEDMENT SHALL BE AS SPECIFIED IN TYPICAL DETAILS. SEE TABLE ON SHEET 9 FOR ANCHOR SPECIFICATIONS FOR EACH INSTALLATION METHOD.

Casement Double			
Unit Height	Quantity Sash Clips Mull Post (Side of Stationary Sash)	Unit Width	Quantity Sash Clips Head & Sill (Each Stationary Sash)
< 32	1	< 67	1
< 44	2	≥ 67	2
< 57	3		
≥ 57	4		

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TITLE: RENEWAL SERIES CASEMENT WINDOW (NON-IMPACT) (NON-HVHZ) ANCHOR LAYOUTS

PREPARED BY: BUILDING DROPS, INC.
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REMARKS	BY	DATE

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DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL19560

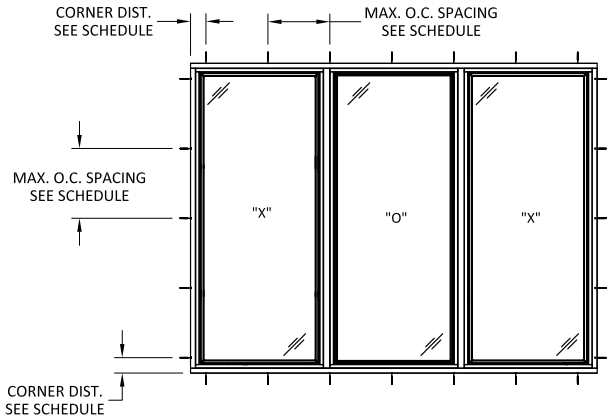
DATE: 11.06.18

DWG. BY: HR | CHK. BY: HFN

SCALE: NTS

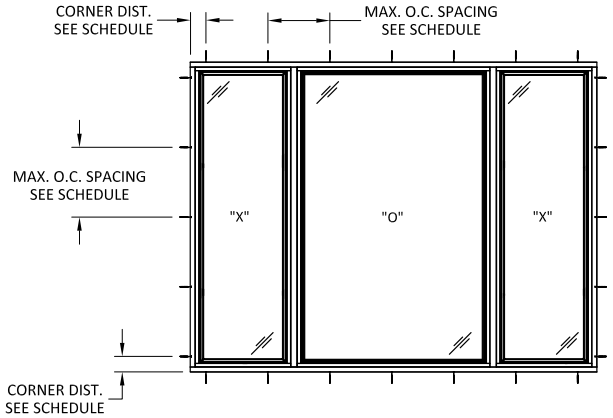
DWG. #: AWD242

SHEET: 4 OF 9



TYPICAL ANCHOR LAYOUT

TRIPLE CASEMENT
EQUAL RATIO



TYPICAL ANCHOR LAYOUT

TRIPLE CASEMENT
UNEQUAL RATIO

RENEWAL SERIES CASEMENT ANCHOR SPACING					
CONFIG.	INSTALLATION METHOD	FROM CORNERS (IN)	MAX. O.C. HEAD (IN)	MAX. O.C. SILL (IN)	MAX. O.C. JAMBS (IN)
TRIPLE CASEMENTS EQUAL RATIO	NAIL FIN	4	4	4	4
	INSTALLATION CLIP	4	16	15	18
	THROUGH FRAME	4	12	12	18
TRIPLE CASEMENTS UNEQUAL RATIO	NAIL FIN	4	4	4	4
	INSTALLATION CLIP	4	16	15	18
	THROUGH FRAME	4	11.75	11.75	18

1) ANY TYPICAL SUBSTRATE SHOWN HEREIN MAY BE USED AT THE HEAD, JAMBS, OR SILL. EDGE DISTANCE AND EMBEDMENT SHALL BE AS SPECIFIED IN TYPICAL DETAILS. SEE TABLE ON SHEET 9 FOR ANCHOR SPECIFICATIONS FOR EACH INSTALLATION METHOD.

Casement Triple 1:1:1				
Unit Height	Quantity Sash Clips Mull Post (Side of Stationary Sash)	Unit Width	Quantity Sash Clips Head & Sill (Each Stationary "Flanker" Sash)	Quantity Sash Clips Sill (Center Stationary Sash)
< 32	1	< 99	1	2
< 44	2	≥ 99	2	3
< 57	3			
≥ 57	4			

Casement Triple 1:2:1				
Unit Height	Quantity Sash Clips Mull Post (Side of Stationary Sash)	Unit Width	Quantity Sash Clips Head & Sill (Each Stationary "Flanker" Sash)	Quantity Sash Clips Sill (Center Stationary Sash)
< 32	1	< 67	1	2
< 44	2	< 93	1	3
< 57	3	≥ 93	1	4
≥ 57	4			

Casement Triple Custom Mull Post					
Unit Height	Quantity Sash Clips Mull Post (Side of Stationary Sash)	"Flanker" Sash Width	Quantity Sash Clips Head & Sill (Each Stationary "Flanker" Sash)	Center Sash Width	Quantity Sash Clips Sill (Center Stationary Sash)
< 32	1	≤ 31.1745	1	≤ 31.1745	2
< 44	2	> 31.1745	2	≤ 41.1745	3
< 57	3			> 41.1745	4
≥ 57	4				

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TITLE: RENEWAL SERIES CASEMENT WINDOW (NON-IMPACT) (NON-HVHZ)
ANCHOR LAYOUTS

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REMARKS	BY	DATE

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BUILDING DROPS, INC
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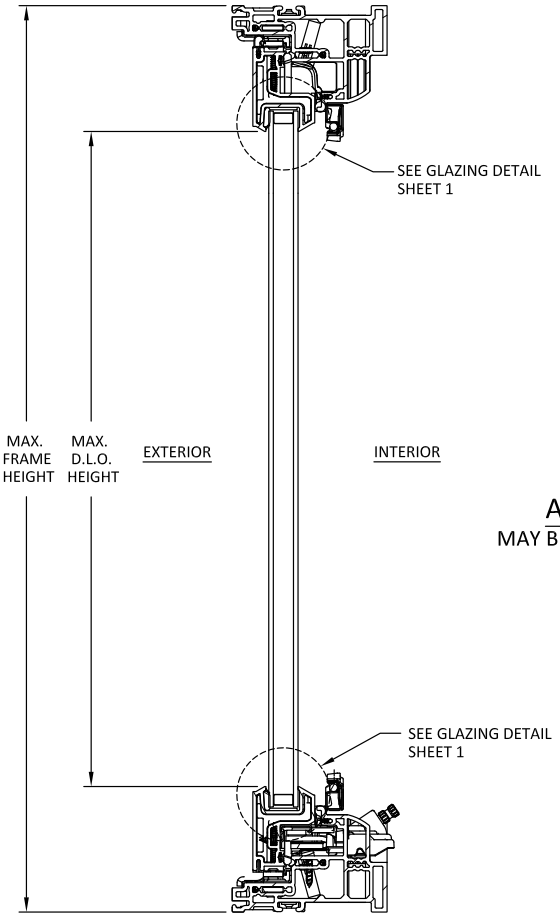
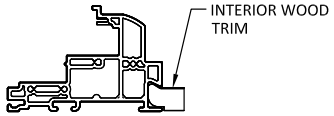
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

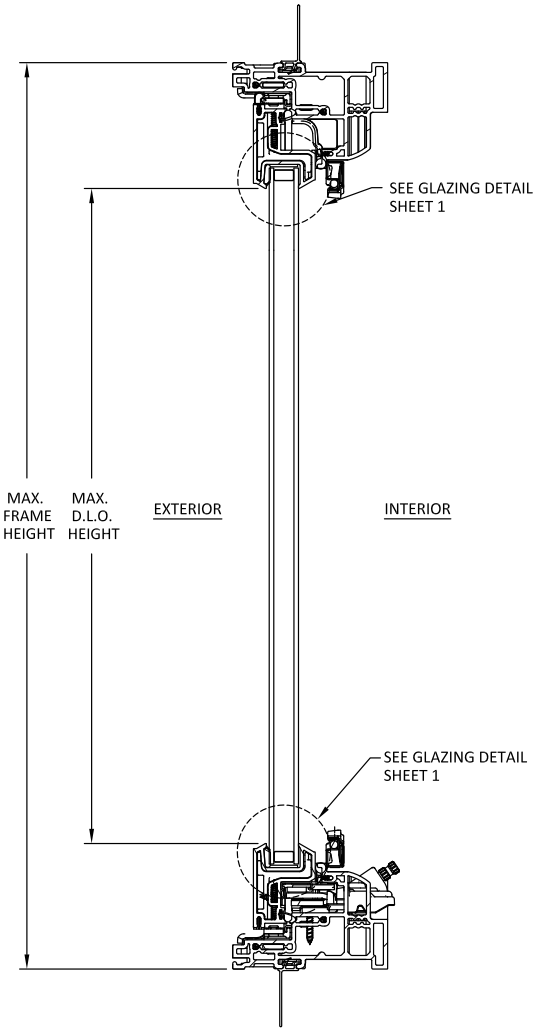
FL #: FL19560
DATE: 11.06.18
DWG. BY: HR
CHK. BY: HFN
SCALE: NTS
DWG. #: AWD242
SHEET: 5 OF 9



A/6 VERTICAL SECTION
THROUGH FRAME AND THROUGH CLIP INSTALLATION



ALTERNATE EJ FRAME DETAIL
MAY BE USED AS EQUAL ALTERNATE FRAME TYPE



B/6 VERTICAL SECTION
NAIL FIN INSTALLATION

NAIL FIN/FLANGE IS REVERSIBLE, SEE ORIENTATION DIFFERENCE IN DETAIL A AND B

Andersen AW WINDOWS • DOORS
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TITLE: RENEWAL SERIES CASEMENT WINDOW (NON-IMPACT) (NON-HVHZ)
VERTICAL SECTIONS

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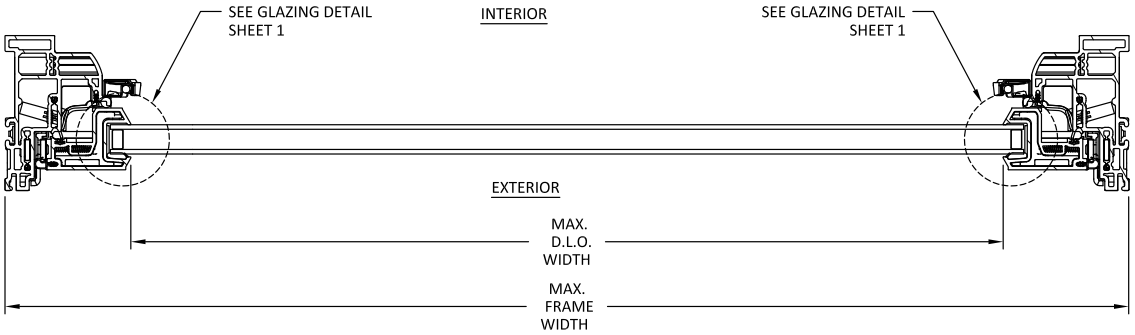
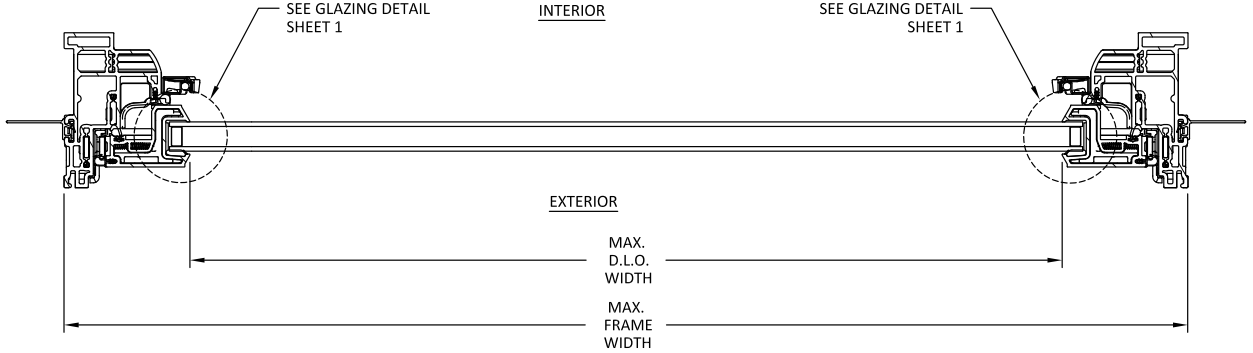
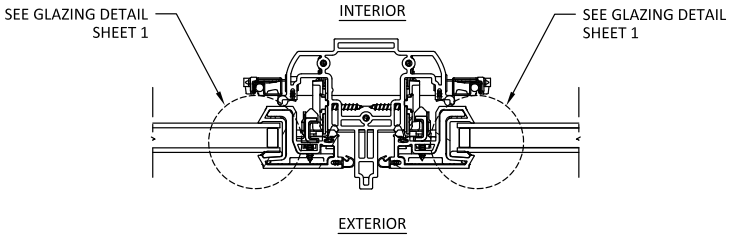


A/7 HORIZONTAL SECTION
THROUGH FRAME AND THROUGH CLIP INSTALLATION



B/7 HORIZONTAL SECTION
NAIL FIN INSTALLATION



C/7 HORIZONTAL SECTION
MULL POST

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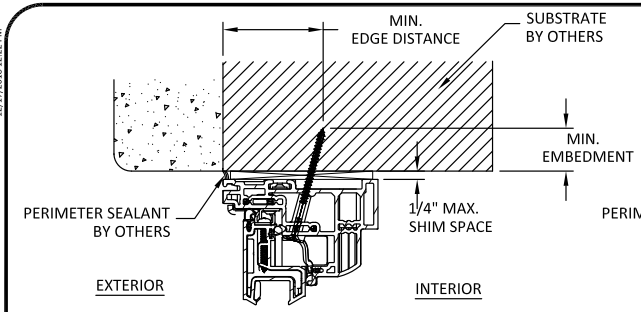
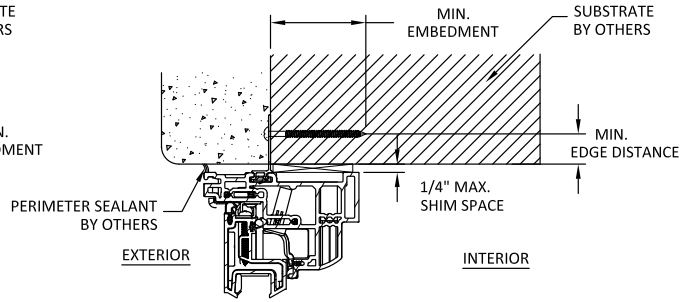


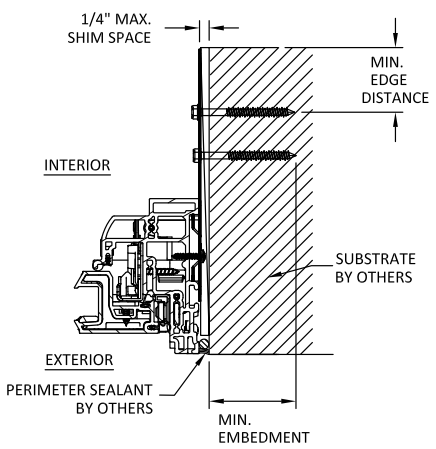
NOTE:
SILL & JAMB DETAIL SIMILAR.

A/8 VERTICAL SECTION
THROUGH FRAME (HEAD)



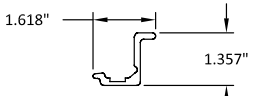
NOTE:
SILL & JAMB DETAIL SIMILAR.

B/8 VERTICAL SECTION
NAIL FIN (HEAD)



NOTE:
HEAD & SILL DETAIL SIMILAR.

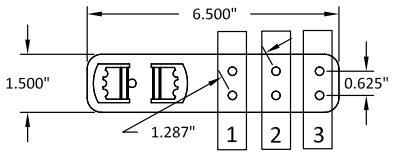
C/8 HORIZONTAL SECTION
THROUGH CLIP (JAMB)



HINGE-SIDE STILE FIBERGLASS
REINFORCEMENT DETAIL

SASH REINFORCEMENT REQUIREMENTS	
SIZE	REINFORCING
UNIT HEIGHT > 44"	REQUIRES FIBERGLASS REINFORCEMENT INSERTED INTO HINGE-SIDE STILE
UNIT HEIGHT ≤ 44"	NOT REQUIRED

DP UPGRADE SASH REINFORCEMENT REQUIREMENTS	
SIZE	REINFORCING
UNIT WIDTH > 32"	REQUIRES FIBERGLASS REINFORCEMENT INSERTED INTO TOP RAIL
UNIT WIDTH ≤ 32"	NOT REQUIRED



INSTALLATION CLIP DETAIL

INSTALLATION CLIP ANCHOR REQUIREMENTS:

WOOD SUBSTRATE: USE TWO #8 PAN HEAD WOOD SCREWS PER CLIP, IN ROW NUMBER ONE OF PREDRILLED HOLES SHOWN BELOW.

METAL SUBSTRATE: USE TWO #8 HWH SMS ANCHORS PER CLIP, IN ROW NUMBER ONE OF PREDRILLED HOLES SHOWN BELOW.

CONCRETE/MASONRY: USE TWO 3/16" ITW TAPCON ANCHORS, WITH ONE ANCHOR PLACED IN ROW NUMBER ONE AND ONE ANCHOR PLACED IN ROW NUMBER TWO OF PREDRILLED HOLES SHOWN BELOW. ANCHORS MUST BE PLACED DIAGONALLY ACROSS THE CLIP.

DO NOT INSTALL ANCHORS THROUGH ROW NUMBER THREE.

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ANCHOR DETAILS

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DWG. #: AWD242

SHEET: 8 OF 9

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION, UNLESS OTHERWISE SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/4 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. 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.
5. FOR MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
8. 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.
9. 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.

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	WOOD: MIN. SG = 0.55	#10 WOOD SCREW FLAT HEAD	1.5"	0.75"
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#10 TEK SCREW FLAT HEAD	3 THREADS MIN PENETRATION BEYOND METAL	0.5"
THROUGH FRAME & THROUGH CLIP	CONCRETE: MIN. f'c=3000PSI	3/16" ITW TAPCON FLATHEAD	1.25"	2.5
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/16" ITW TAPCON FLATHEAD	1"	2.25
NAIL FIN & THROUGH CLIP	WOOD: MIN. SG = 0.55	#8 WOOD SCREW FLAT HEAD	1.5"	0.75"
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#8 TEK SCREW FLAT HEAD	3 THREADS MIN PENETRATION BEYOND METAL	0.5"

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