

CROFT, LLC

SERIES 52 SINGLE HUNG WINDOW



P.O. BOX 826
MCCOMB, MS 39649
PH: 601-684-6121 FX: 601-783-3188

INSTALLATION NOTES:

1. *ONE (1)* INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. 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.
4. SEE ANCHOR SCHEDULES ON SHEETS 2 AND 3 FOR INSTALLATION ANCHOR REQUIREMENTS BASED ON INSTALLATION METHOD AND SUBSTRATE.
5. FINLESS UNITS MUST BE SET INTO A BED OF CAULK AT THE SILL WHERE NO THROUGH FRAME ANCHORS ARE USED.
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.
10. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90.
 - D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL 18 GA. WALL THICKNESS.

GENERAL NOTES:

1. 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/A440-08
 - AAMA 450-10
2. 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.
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. 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.
5. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.

WINDOW FRAME MATERIAL: VINYL

6. GLASS SHALL MEET REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 6 FOR GLAZING DETAILS.

7. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED PANEL

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
1	-	GENERAL & INSTALLATION NOTES
2	-	THROUGH FRAME ELEVATIONS, ANCHOR SCHEDULE AND LAYOUTS
3	-	NAIL FIN ELEVATIONS, ANCHOR SCHEDULE AND LAYOUTS
4	-	NAIL FIN VERTICAL & HORIZONTAL SECTIONS
5	-	THROUGH FRAME VERTICAL & HORIZONTAL SECTIONS
6	-	MULLION AND GLAZING DETAILS

FRAME TYPE	OVERALL SIZE		DP RATING	MISSILE IMPACT RATING	MULL TYPE
	WIDTH	HEIGHT			
FLANGE	72"	72"	+/- 35 PSF	NON-IMPACT	COMBINATION
FLANGE	52"	72"	+/- 35 PSF	NON-IMPACT	N/A
FIN	72"	72"	+/- 35 PSF	NON-IMPACT	INTEGRAL
FIN	72"	72"	+/- 35 PSF	NON-IMPACT	COMBINATION
FIN	48"	84"	+/- 20 PSF	NON-IMPACT	N/A
FIN	36"	72"	+/- 35 PSF	NON-IMPACT	N/A
FIN	36"	72"	+/- 50 PSF	NON-IMPACT	N/A

NOTE: ALL CERTIFIED UNITS SHALL USE EXTRUDED ALUMINUM REINFORCEMENTS AS REQUIRED PER TESTING. DETAILS CONTAINED HEREIN MAY NOT REFLECT REQUIRED REINFORCEMENTS FOR EACH CONFIGURATION LISTED.

Digitally signed by Hermes F Norero, P.E.
Reason: I am approving this document
Date: 2015.10.05 13:23:06 -04'00'

TITLE: SERIES 52 TWIN SINGLE-HUNG WINDOW
GENERAL & INSTALLATION NOTES

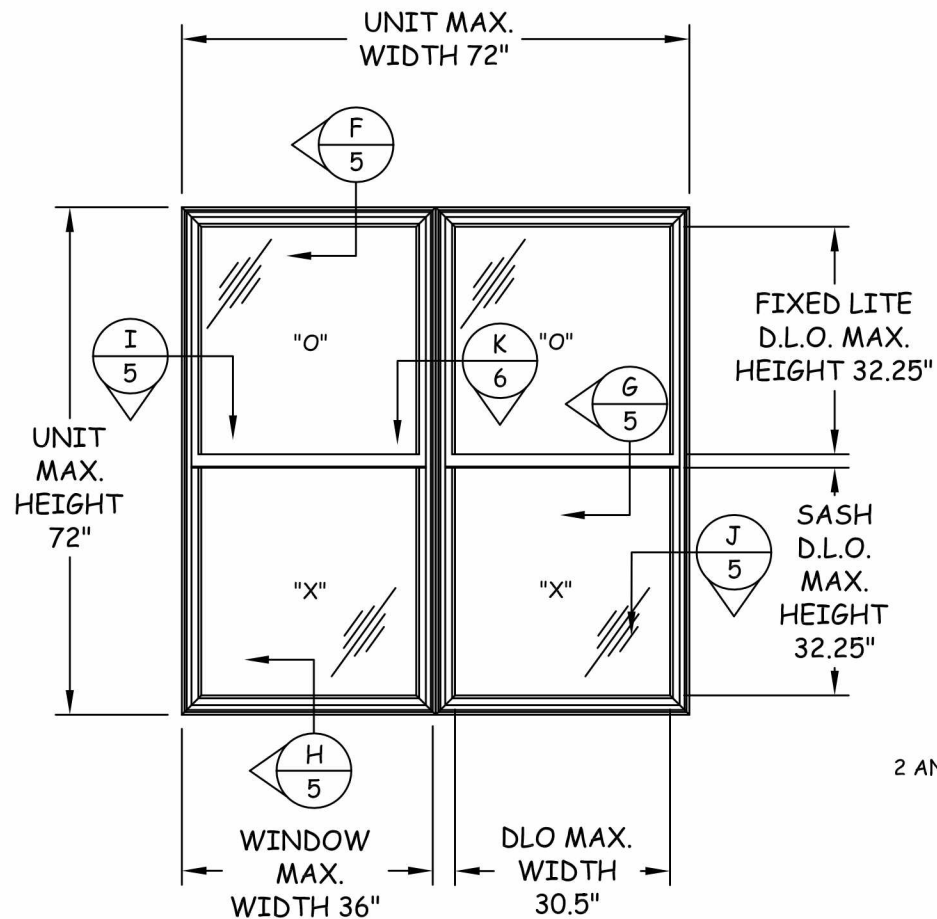
PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS	DESCRIPTION	DATE	BY

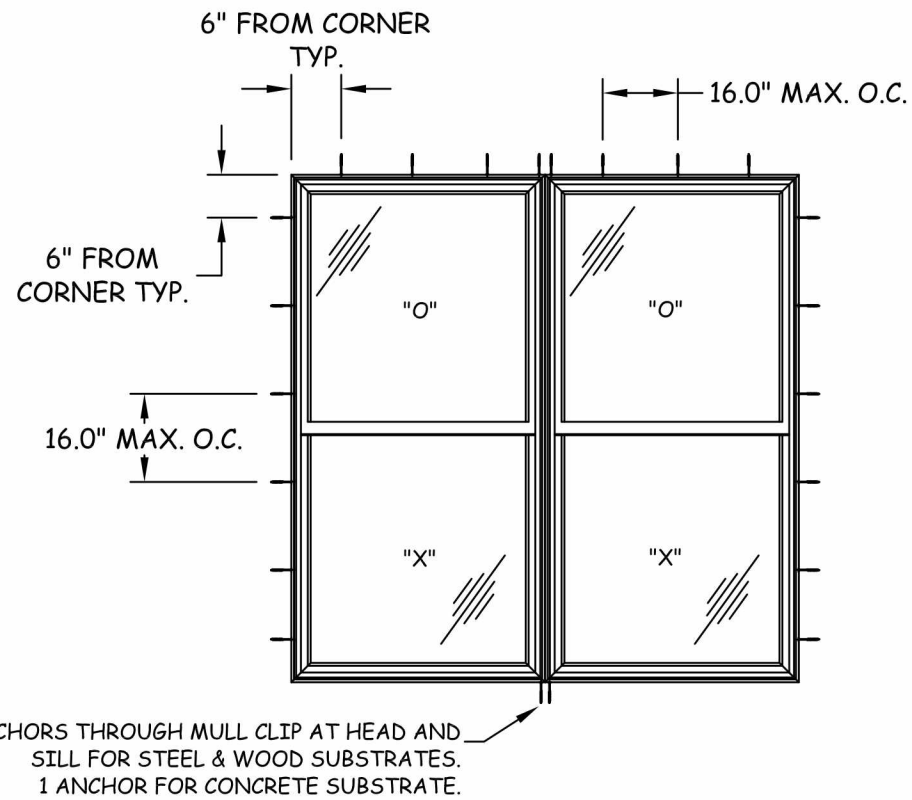


DATE: 07.23.15
DWN BY: BB
CHK BY: HFN
SCALE: NTS

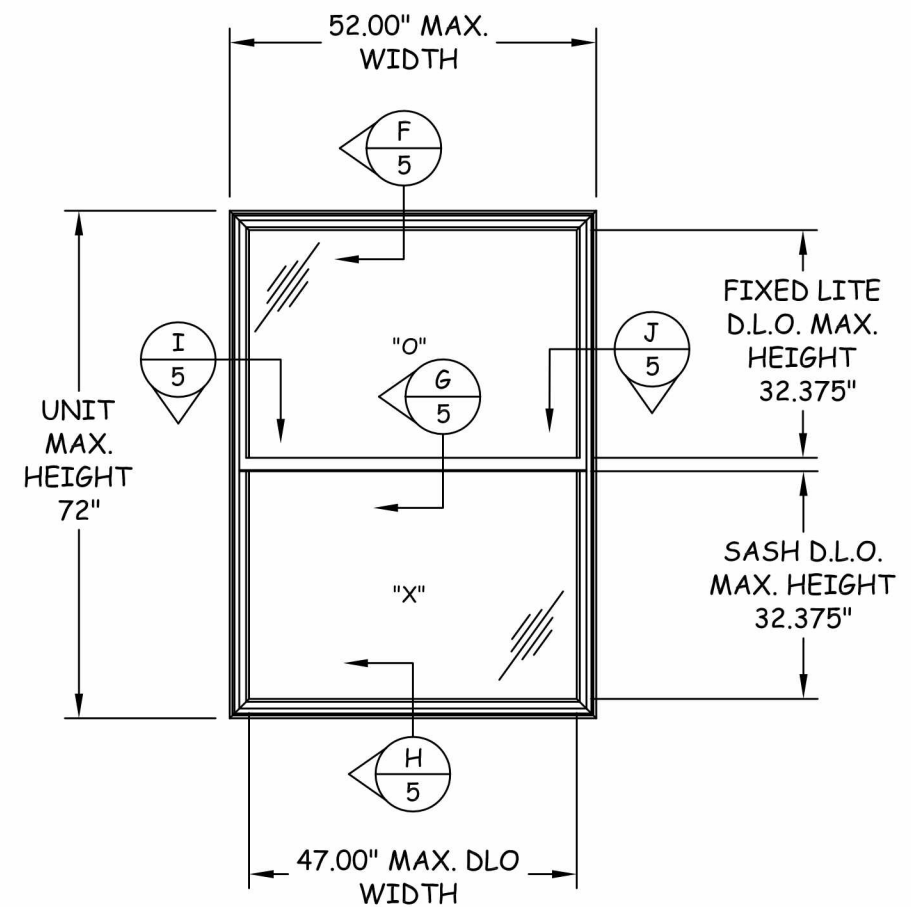
DWG #: **CRF016**
SHEET: **1 OF 6**



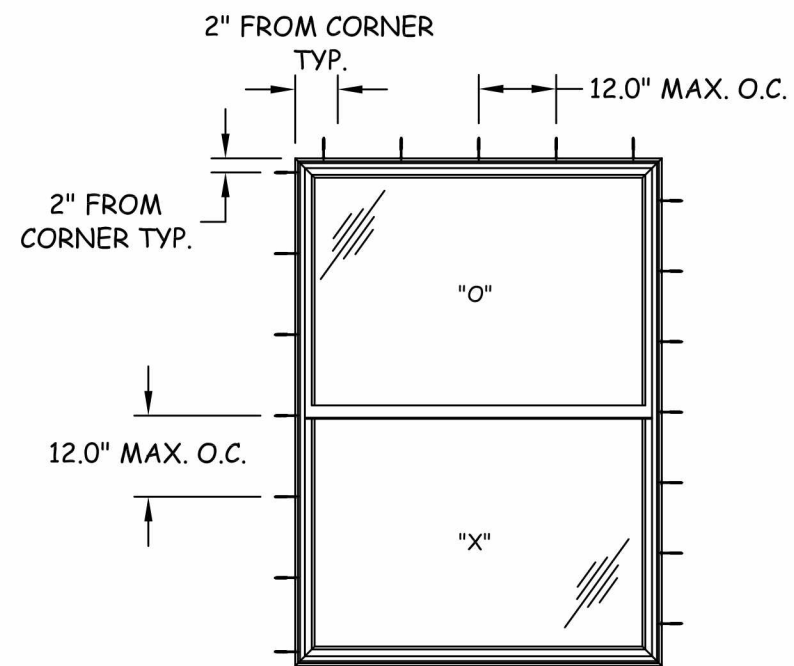
ELEVATION
72" X 72" FLANGE FRAME
WITH COMBINATION MULLION



ANCHOR LAYOUT
72" X 72" FLANGE FRAME
WITH COMBINATION MULLION



ELEVATION
52" X 72" FLANGE FRAME



ANCHOR LAYOUT
52" X 72" FLANGE FRAME

ANCHOR SCHEDULE					
METHOD	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE	MIN. ANCHOR SPACING
THROUGH FRAME	MIN. S.G. = 0.55 WOOD	#8 WOOD SCREW	1.5"	0.75"	1"
	CMU PER ASTM C90	3/16" DIAMETER ITW TAPCON	1.25"	2.5"	3"
	CONCRETE, MIN. COMPRESSIVE STRENGTH OF 3000 PSI	3/16" DIAMETER ITW TAPCON	1.25"	2.25"	3"
	18 GAUGE STEEL, MIN fy = 33 ksi	#8 PAN HEAD SHEET METAL SCREW	3 THREADS PENETRATION BEYOND METAL	0.75"	1"
MULL CLIP	MIN. S.G. = 0.55 WOOD	#8 WOOD SCREW	1.5"	0.75"	1"
	CONCRETE, MIN. COMPRESSIVE STRENGTH OF 3000 PSI	1/4" DIAMETER ITW TAPCON	1.75"	2.5"	4"
	18 GAUGE STEEL, MIN fy = 33 ksi	#10 PAN HEAD SHEET METAL SCREW	3 THREADS PENETRATION BEYOND METAL	0.75"	1"

TITLE: SERIES 52 TWIN SINGLE-HUNG WINDOW THROUGH FRAME ELEVATIONS & ANCHOR SCHEDULE AND LAYOUTS
PREPARED BY: BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD., #338 DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS	DESCRIPTION	BY	DATE

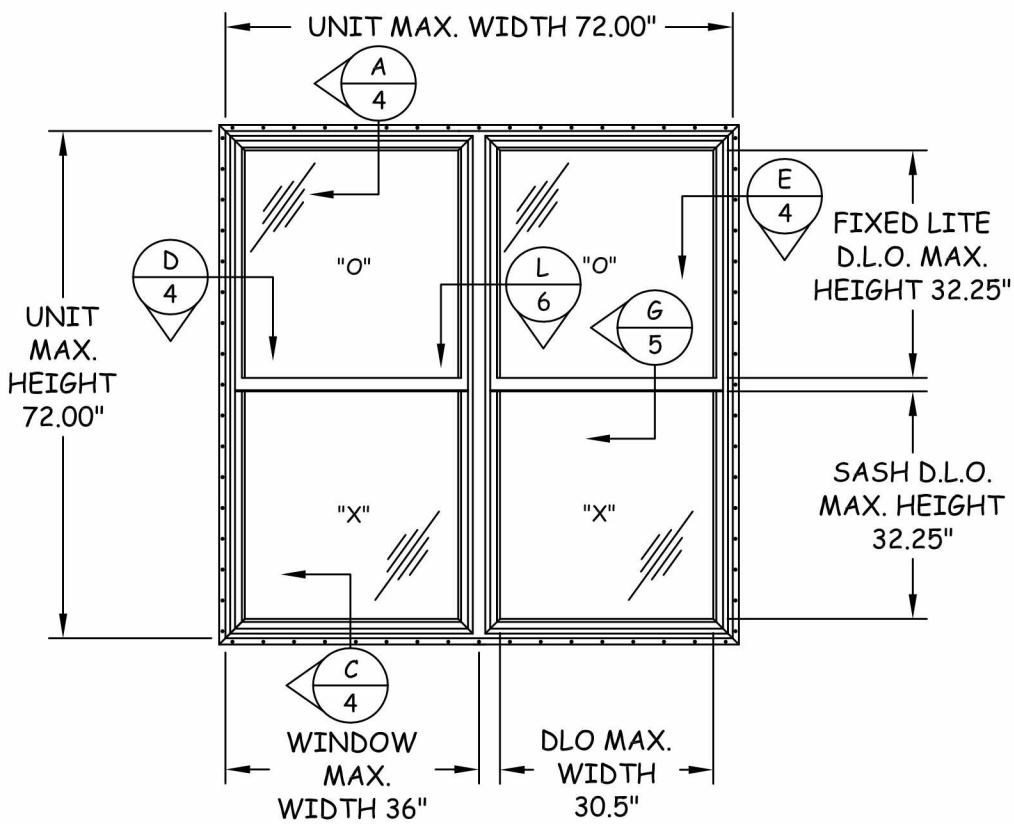


DATE: 07.23.15
DWN BY: BB
CHK BY: HFN
SCALE: NTS
DWG #: CRF016
SHEET: 2 OF 6

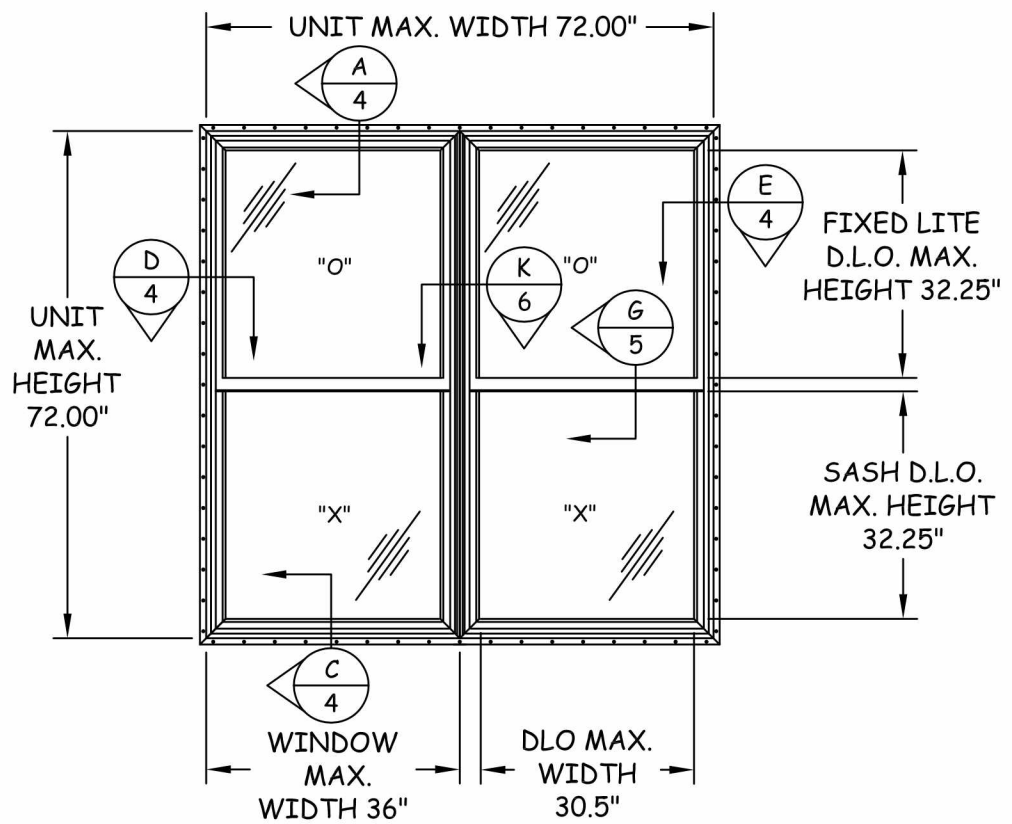


P.O. BOX 826
MCCOMB, MS 39649
PH: 601-684-6121 FX: 601-783-3188

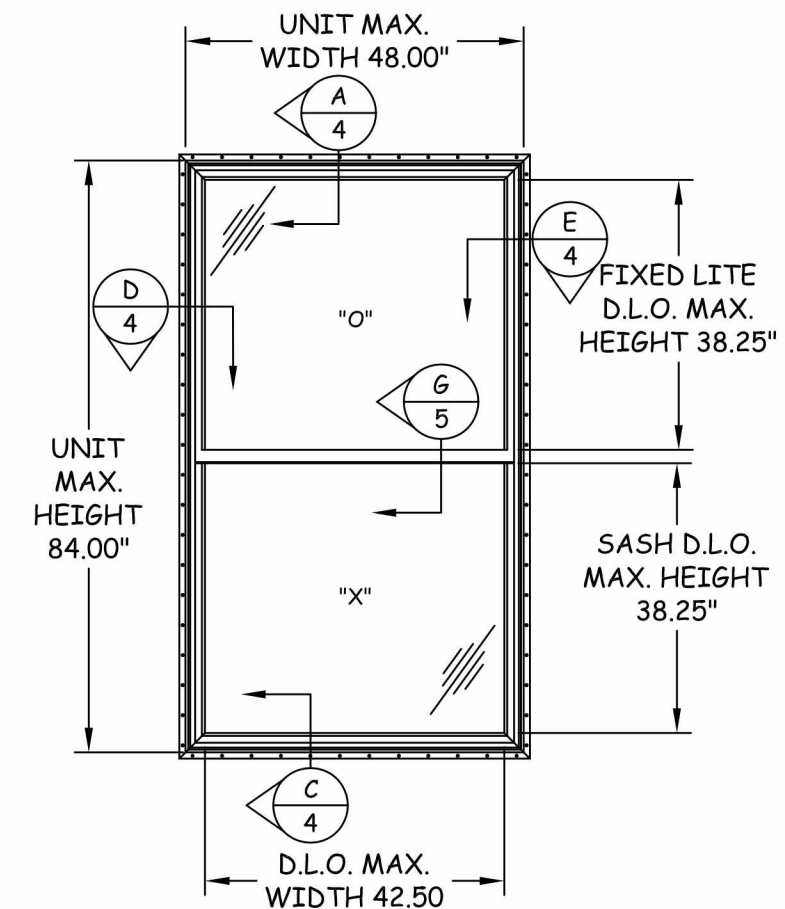
TITLE: SERIES 52 TWIN
SINGLE-HUNG WINDOW
NAIL FIN ELEVATIONS &
ANCHOR SCHEDULE AND LAYOUTS
PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738



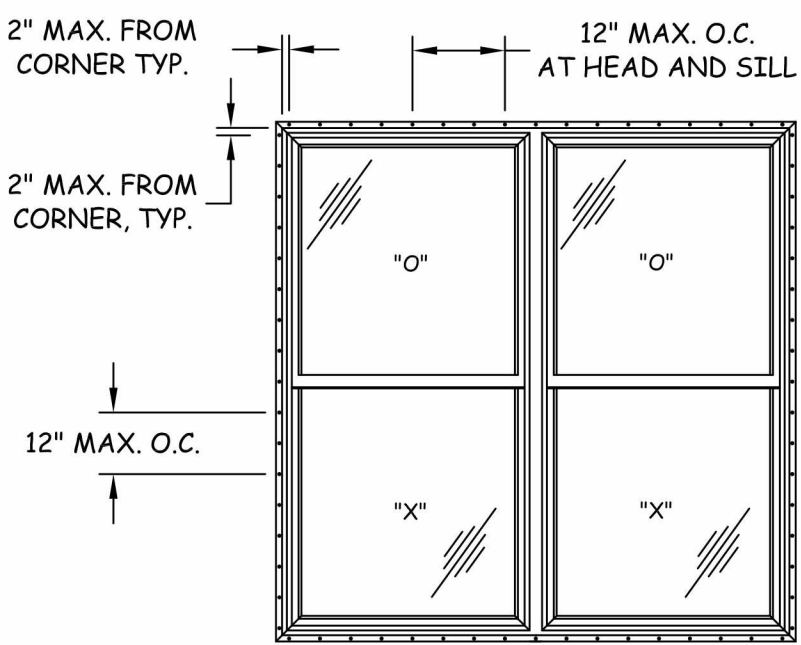
ELEVATION
72" x 72" FIN FRAME
WITH INTEGRAL MULLION



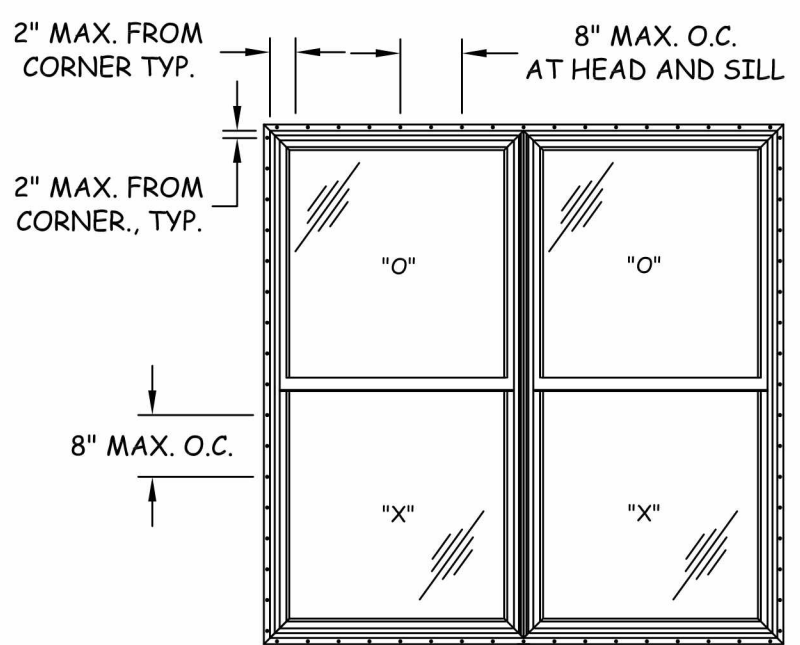
ELEVATION
72" X 72" FIN FRAME
WITH COMBINATION MULLION



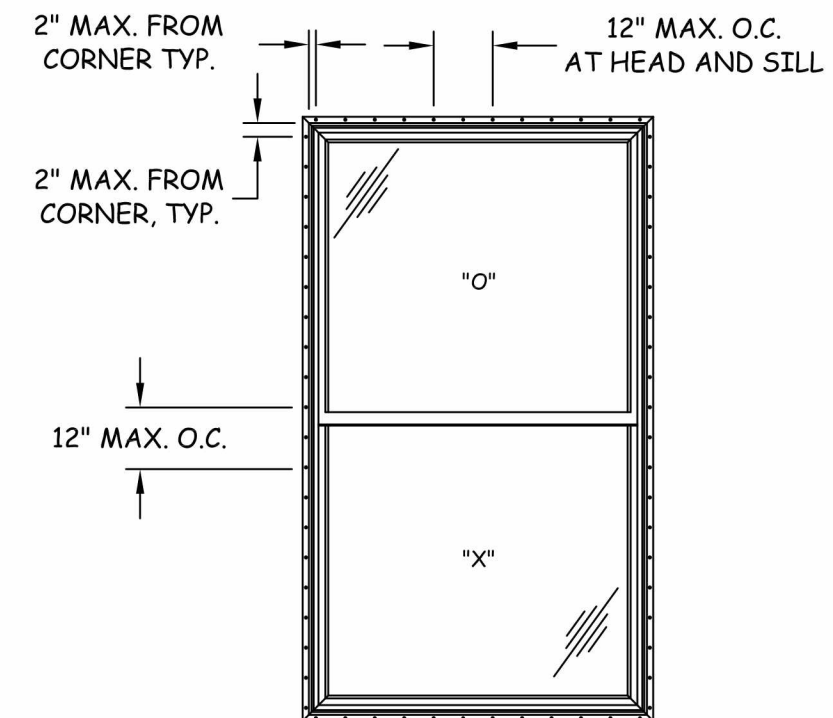
ELEVATION
48" X 84" FIN FRAME
SINGLE UNIT



ANCHOR LAYOUT
72" X 72" FIN FRAME
WITH INTEGRAL MULLION



ANCHOR LAYOUT
72" X 72" FIN FRAME
WITH COMBINATION MULLION



ANCHOR LAYOUT
48" X 84" FIN FRAME
SINGLE UNIT

NOTE: NAIL FIN UNITS DO NOT
REQUIRE USE OF MULL CLIPS

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
NAIL FIN	MIN. S.G. = 0.55 WOOD	#8 PAN HEAD WOOD SCREW	1.5"	0.75"
	18 GAUGE STEEL, MIN fy = 33 ksi	#8 SELF TAPPING PAN HEAD SCREW	3 THREADS PENETRATION BEYOND METAL	0.75"

REVISIONS	BY	DATE



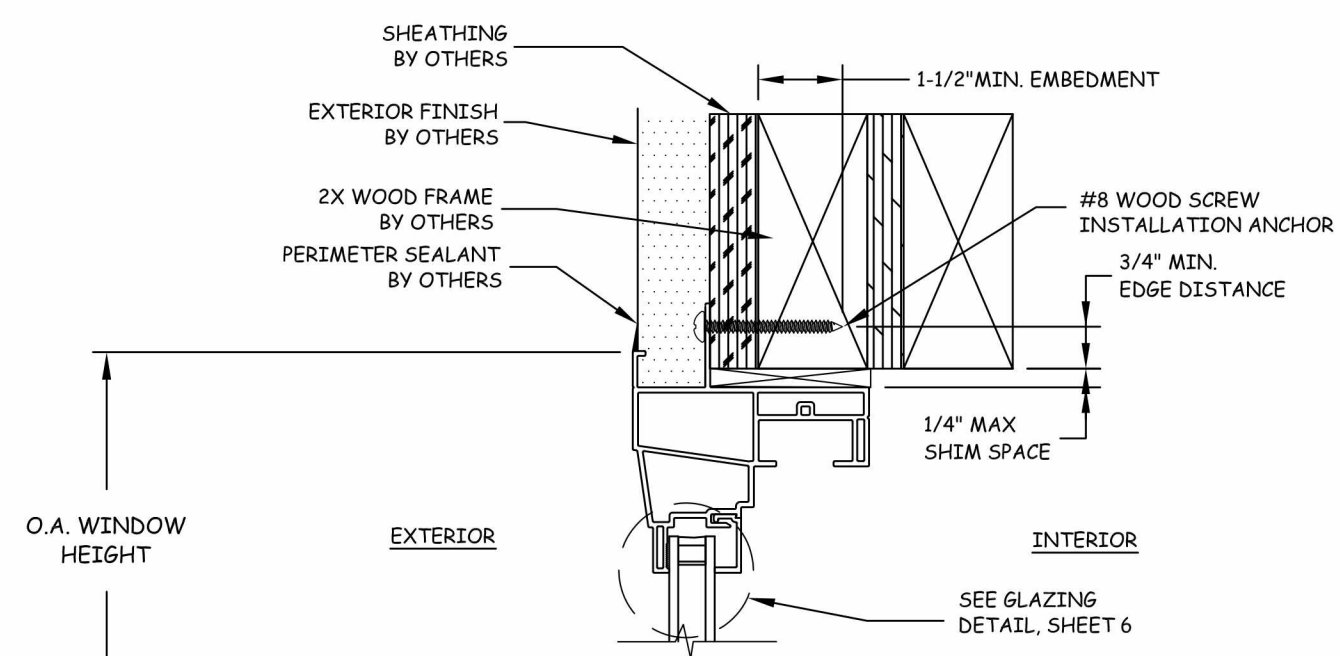
DATE: 07.23.15
DWN BY: BB
CHK BY: HFN
SCALE: NTS

DWG #: **CRF016**
SHEET: **3 OF 6**

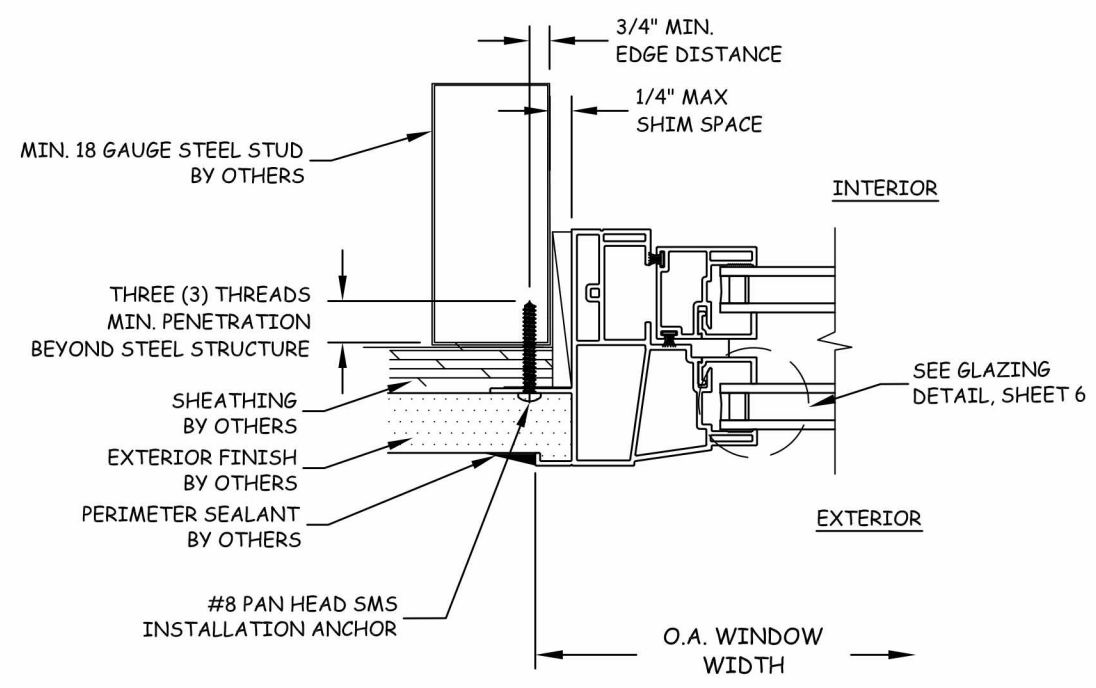


P.O. BOX 826
MCCOMB, MS 39649
PH: 601-684-6121 FX: 601-783-3188

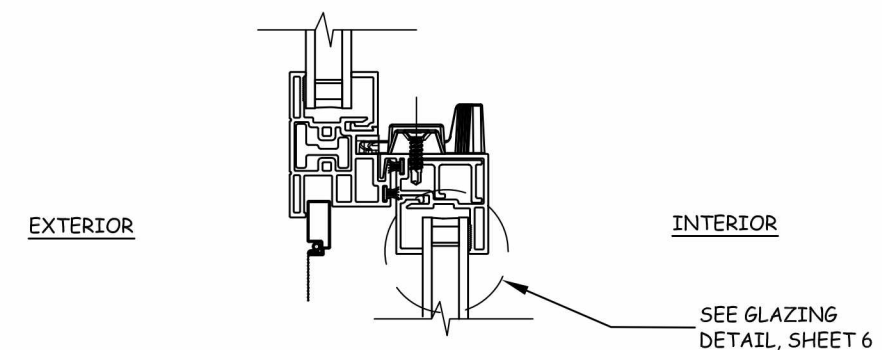
TITLE: SERIES 52 TWIN
SINGLE-HUNG WINDOW
NAIL FIN -
GLAZING & INSTALLATION DETAILS
PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738



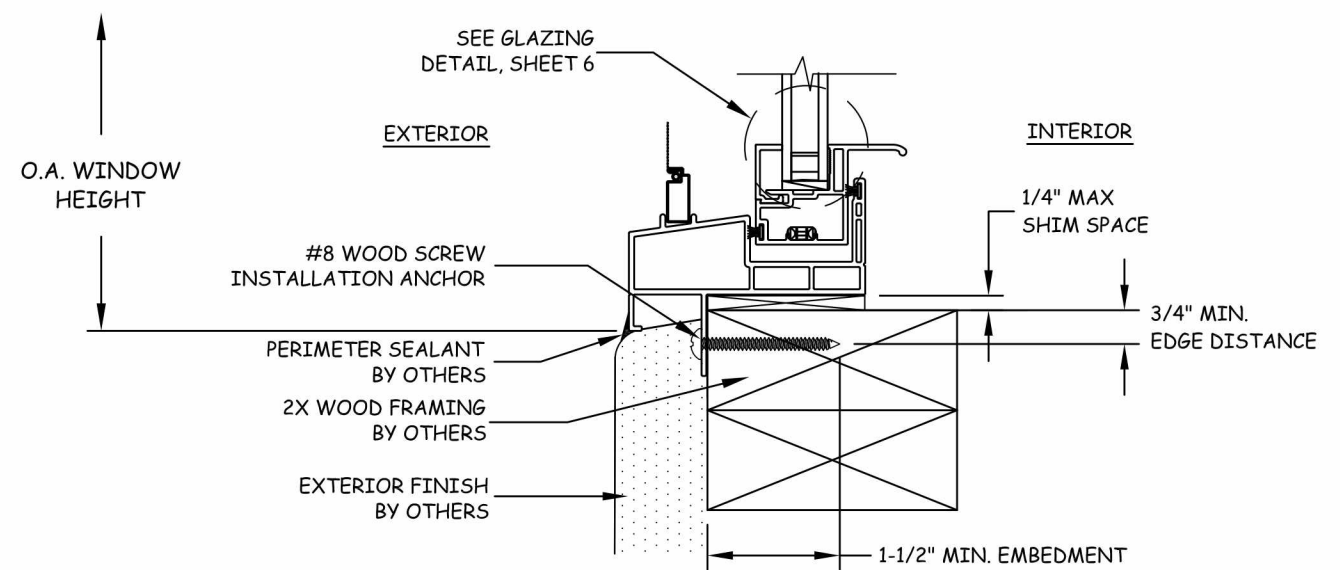
A
4 VERTICAL SECTION
HEAD - 2X WOOD SUBSTRATE
FIN FRAME



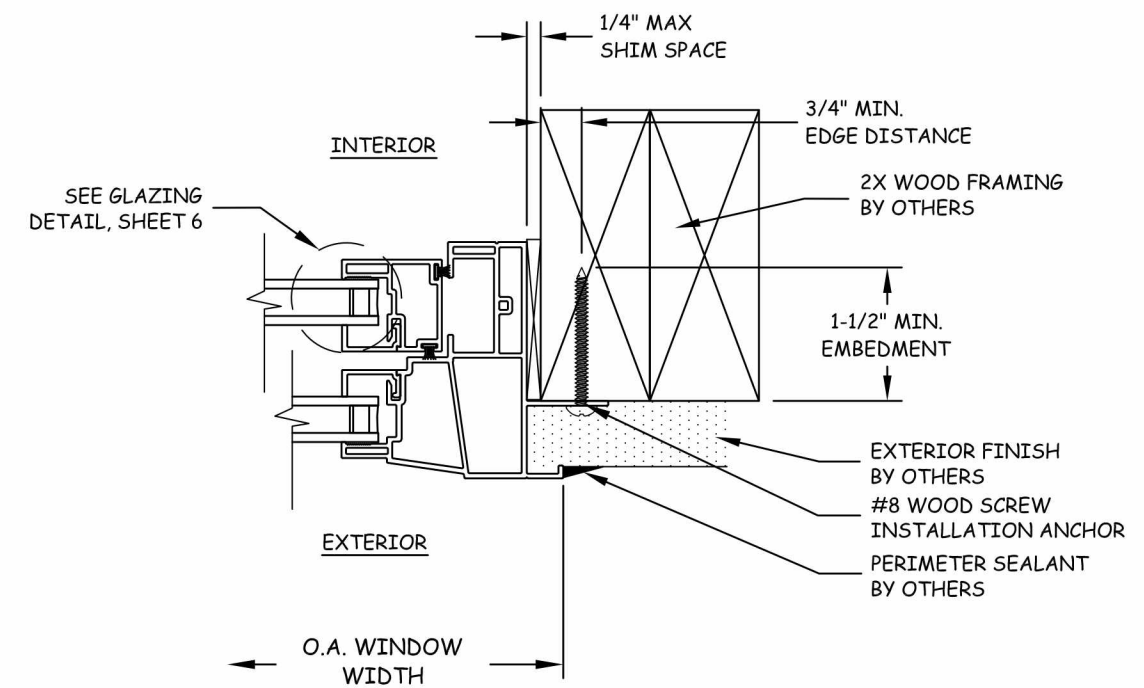
D
4 HORIZONTAL SECTION
JAMB - STEEL STUD SUBSTRATE
FIN FRAME



B
4 VERTICAL SECTION
MEETING RAIL



C
4 VERTICAL SECTION
SILL - WOOD SUBSTRATE
FIN FRAME



E
4 HORIZONTAL SECTION
JAMB - WOOD SUBSTRATE
FIN FRAME

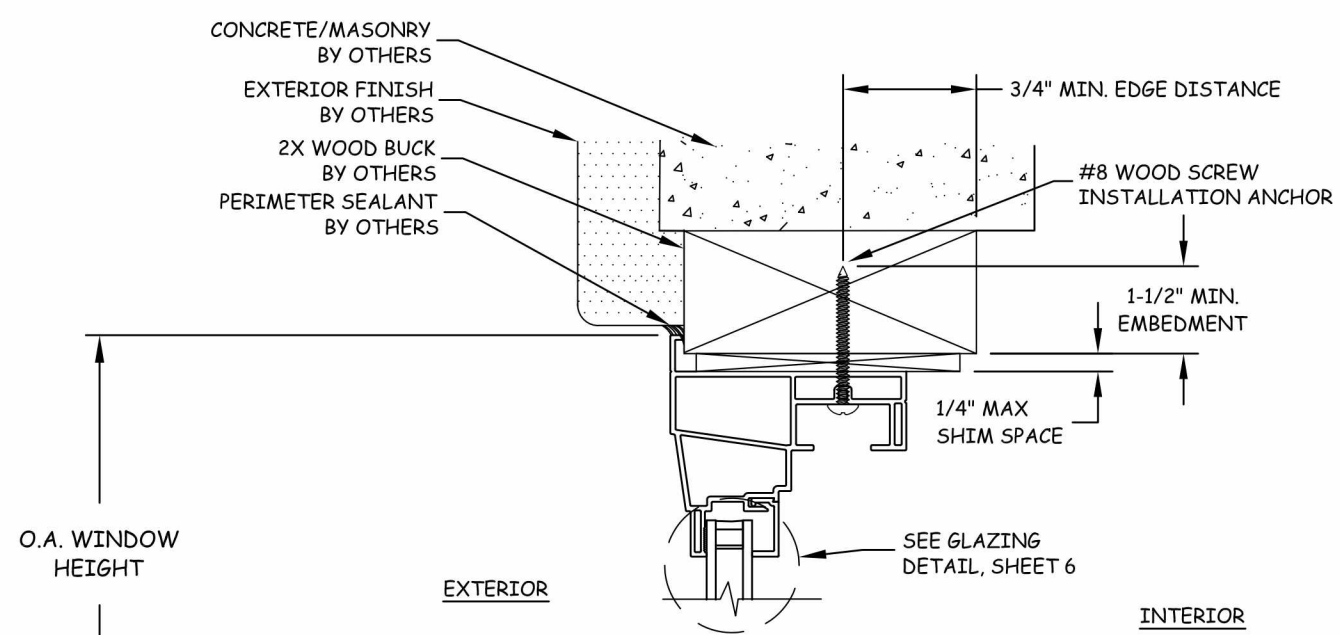
REVISIONS	NO.	DESCRIPTION	BY	DATE



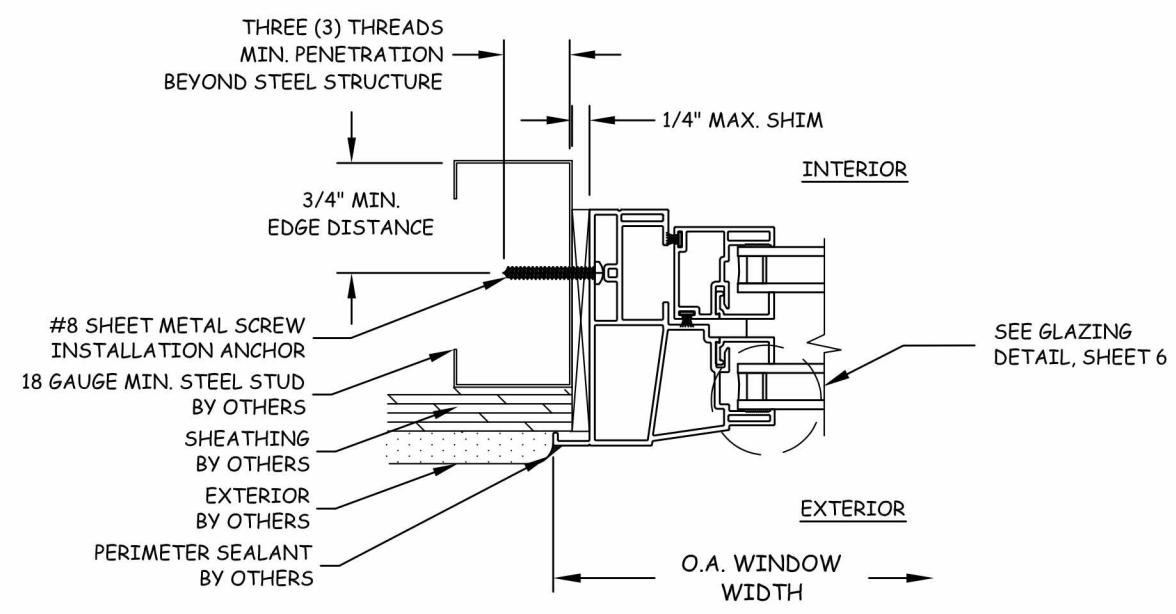
DATE: 07.23.15
DWN BY: BB
CHK BY: HFN
SCALE: NTS

DWG #: **CRF016**
SHEET: **4 OF 6**

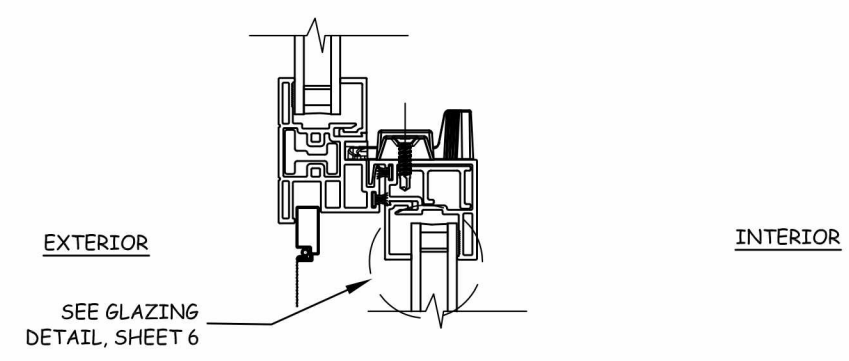
TITLE: SERIES 52 TWIN SINGLE-HUNG WINDOW THROUGH FRAME - INSTALLATION DETAILS
PREPARED BY: BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD., #338 DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738



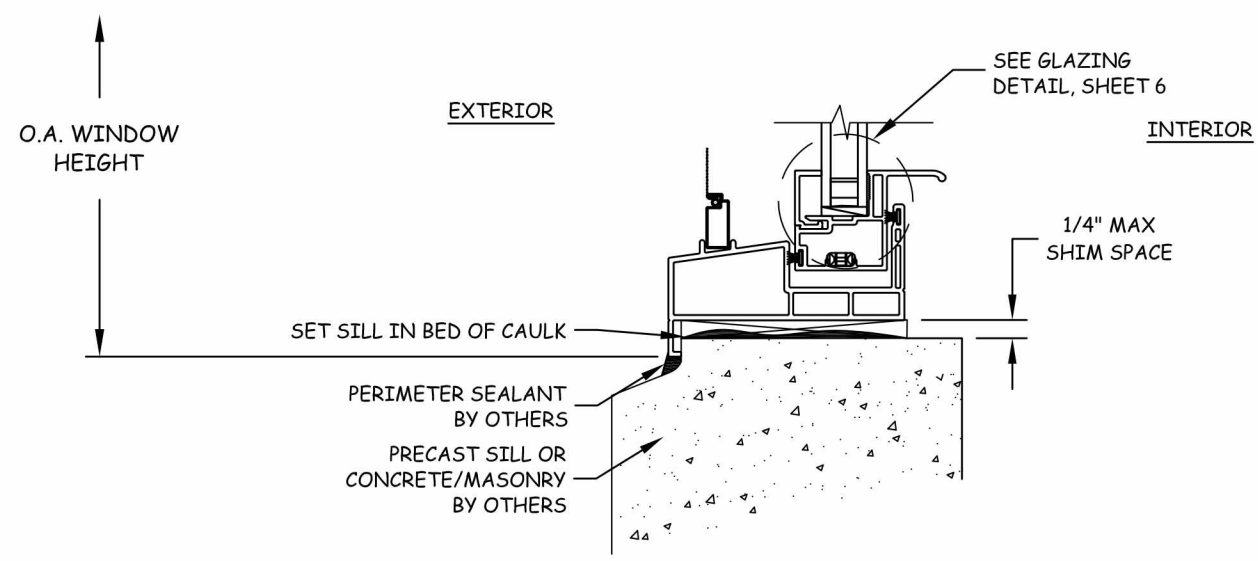
F
5 VERTICAL SECTION
HEAD - 2X WOOD SUBSTRATE FLANGE FRAME



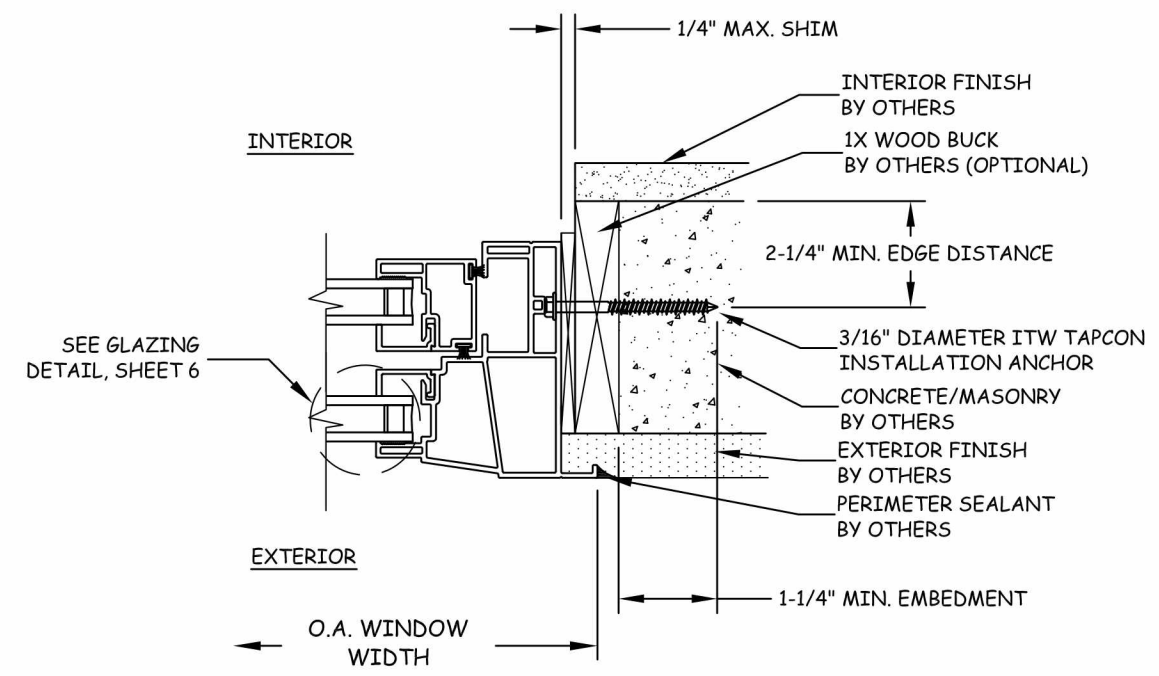
I
5 HORIZONTAL SECTION
JAMB - STEEL STUD SUBSTRATE FLANGE FRAME



G
5 VERTICAL SECTION
MEETING RAIL

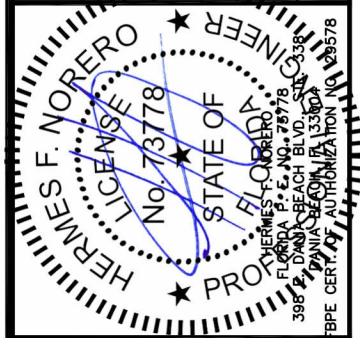


H
5 VERTICAL SECTION
SILL - PRECAST CONCRETE SUBSTRATE FLANGE FRAME



J
5 HORIZONTAL SECTION
JAMB - 1X BUCK/CONCRETE/MASONRY SUBSTRATE FLANGE FRAME

NO.	DESCRIPTION	BY	DATE

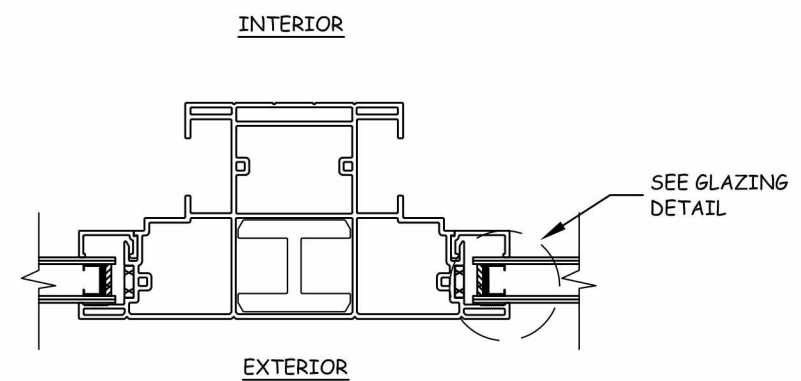


DATE: 07.23.15
DWN BY: BB
CHK BY: HFN
SCALE: NTS

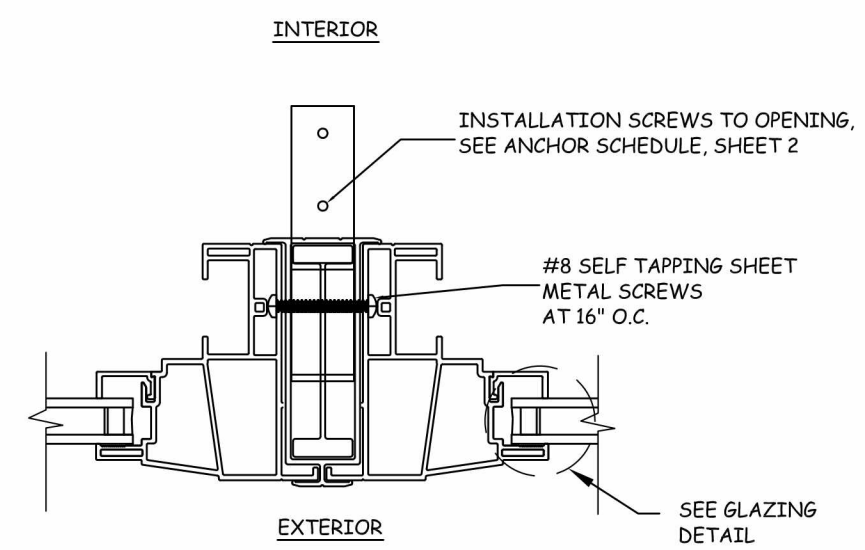
DWG #: **CRF016**
SHEET: **5 OF 6**

TITLE: SERIES 52 TWIN
SINGLE-HUNG WINDOW
MULLION AND GLAZING DETAILS

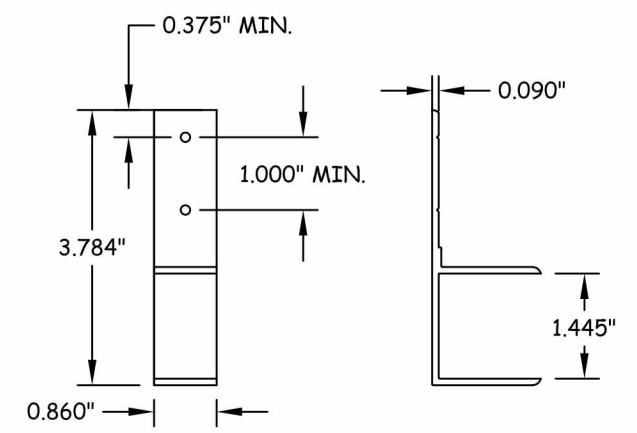
PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738



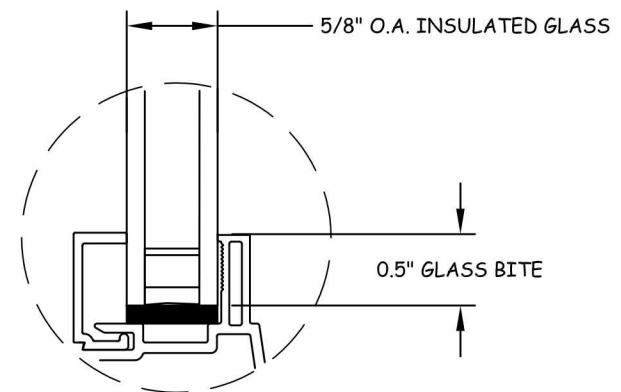
L
6 **HORIZONTAL SECTION**
INTEGRAL MULLION DETAIL



K
6 **HORIZONTAL SECTION**
COMBINATION MULLION DETAIL



MULLION CLIP DETAIL



GLAZING DETAIL

- MULL CLIP ANCHOR REQUIREMENTS**
- ANCHORS REQUIRED THROUGH MULL CLIP FOR THROUGH FRAME ANCHORAGE, MULL CLIP AND MULL CLIP ANCHORS ARE NOT REQUIRED FOR NAIL FIN INSTALLATIONS.
 - 2 ANCHORS THROUGH MULLION CLIP AT HEAD AND AT THE SILL FOR WOOD AND STEEL SUBSTRATE.
 - 1 ANCHOR THROUGH MULLION CLIP AT HEAD AND AT THE SILL FOR CONCRETE SUBSTRATE.
 - ANCHOR EMBEDMENT, EDGE DISTANCE AND TYPE SHALL BE AS SPECIFIED ON SHEET 2 AND THROUGHOUT DRAWING
 - FIELD DRILLED INSTALLATION ANCHOR HOLES SHALL BE SPACED A MINIMUM OF 1" APART AND HAVE A MIN. EDGE DISTANCE OF 3/8" TO THE EDGE OF THE CLIP.

GLAZING 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 CURRENT FBC.

REVISIONS	DESCRIPTION	BY	DATE



DATE: 07.23.15
DWN BY: BB
CHK BY: HFN
SCALE: NTS

DWG #: **CRF016**

SHEET: **6 OF 6**