EUROCRAFT INDUSTRIES INC.

1014 VENTANA DRIVE

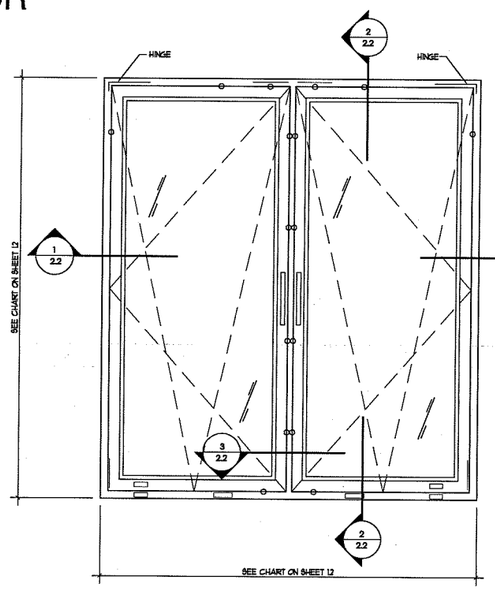
RUSKIN, FL 33572

DOUBLE TILT-TURN WINDOW/ TILT-SLIDE BALCONY DOOR

GENERAL NOTES - Double Tilt-Turn Window/ Tilt-slide Balcony Door

1. This product meets the requirements for the State of Florida including the High Velocity Hurricane Zone (HVHZ).
2. When used in wind-borne debris regions this, product complies with Section 1609.1.2 of the Florida Building Code as an impact resistant product and does not require the use of an external impact resistant covering.
3. The tilt-turn double window and balcony tilt-slider extrusions, assembly, and anchorage are identical. Though the movements are slightly different, both installations will behave identically when closed (e.g. as during design wind event) and therefore considered as one product type.
4. Anchors to supports shall be installed as shown on the attached details.
5. Site conditions deviating from these installation drawings shall require further engineering analysis by a Florida-licensed engineer or architect.

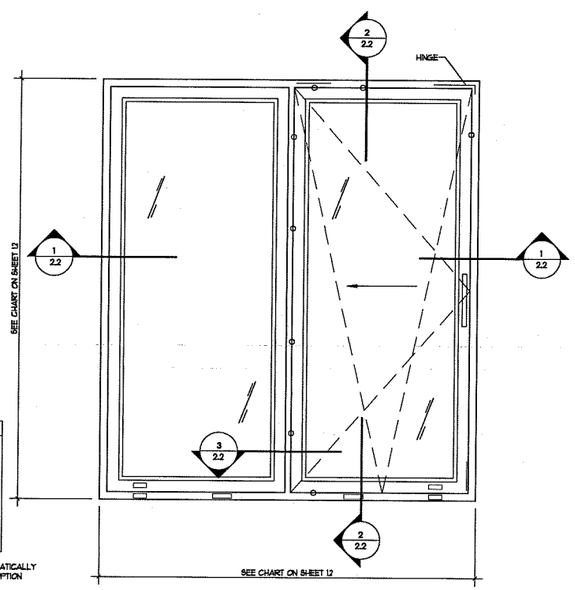
PRODUCT	SWING	TILT	MAX R.O.	GLASS	RATED PRESSURE
TILT-TURN DOUBLE WINDOW	IN	IN	75"w x 83"h	3/1.3	+/-75psf
TILT-SLIDE BALCONY DOOR	N/A - SLIDES	IN - OPERABLE PANEL ONLY	75"w x 83"h	3/1.3	+/-75psf



KOEMMERLING U-PVC/ EURODUR TILT & TURN DOUBLE WINDOW SYSTEM

LEGEND:
TILT-TURN
LOCKING POINTS
HINGE

HARDWARE LOCATIONS SCHEMATICALLY SHOWN FOR BASIC SECURITY OPTION



KOEMMERLING U-PVC/ EURODUR TILT & SLIDE DOOR SYSTEM

ANDREW D. HAROLD LICENSE No. 66715 STATE OF FLORIDA PROFESSIONAL ENGINEER

1/30/09

INDEX OF DRAWINGS

1.2 GENERAL NOTES & DESIGN PRESSURES
2.2 CROSS SECTIONS
3.2 COMPONENTS
4.1 SCHEMATIC HARDWARE ASSEMBLY (TILT-TURN)
4.2 SCHEMATIC HARDWARE ASSEMBLY (TILT-SLIDE)
5.2 FRAME ANCHORAGE DETAILS & SCHEDULE
6.2 FRAME ANCHORAGE ELEVATION

DE DANSCO ENGINEERING, LLC
P.O. BOX 3400
Apollo Beach, Florida 33572
Phone: 813.645.0166
Fax: 813.645.9698
www.danscoengineering.com
CA 25948

Eurocraft INDUSTRIES INC.

EUROCRAFT WINDOWS

REVISION:

DATE	DESCRIPTION

☐ SAMUEL A. GREENBERG, P.E. #34245
☐ THUY H. HUYNH, P.E. #60122
☐ IRWIN J. BENSON, P.E. #49758
☒ ANDREW D. HAROLD, P.E. #66715

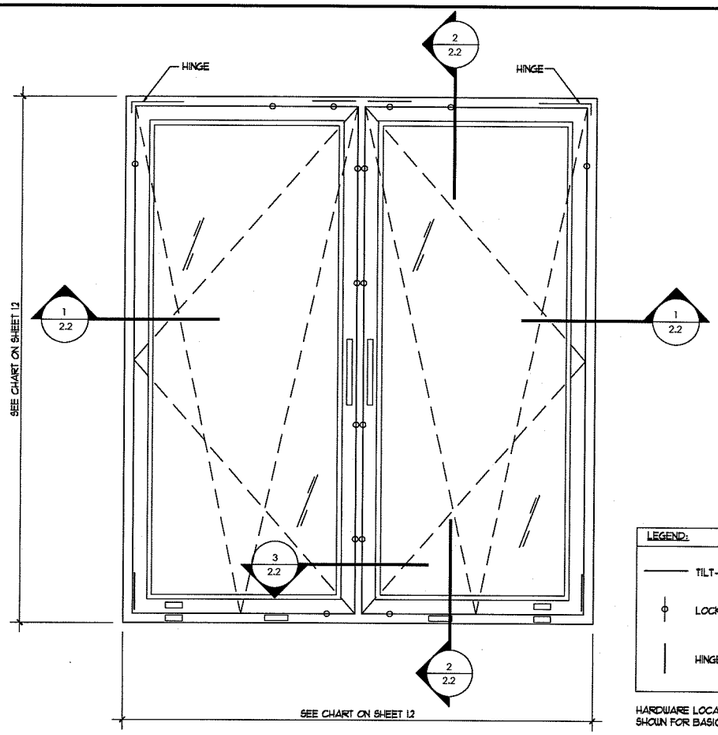
ENGINEER SEAL:

SHEET TITLE: GENERAL NOTES & DESIGN PRESSURE

SHEET INFORMATION:

JOB NO.:	281188
DATE ISSUED:	01.30.09
DRAWN BY:	AR
REVIEWED BY:	ADH

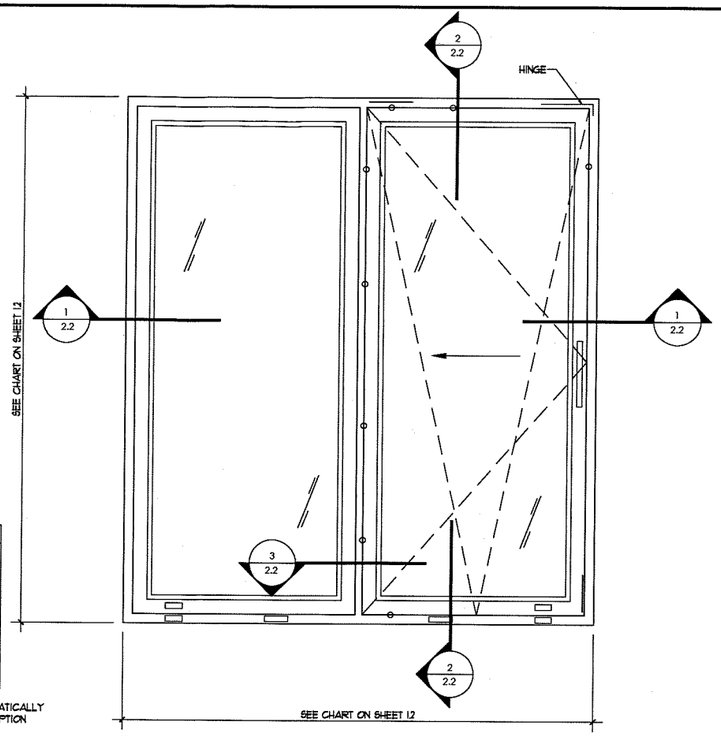
1.2



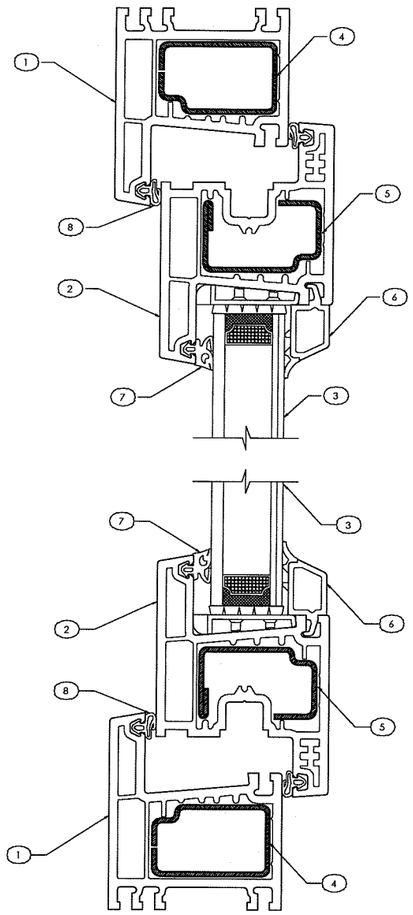
KOEMMERLING U-PVC/ EURODUR TILT & TURN
DOUBLE WINDOW SYSTEM

LEGEND:
- TILT-TURN
- LOCKINGPOINTS
- HINGE

HARDWARE LOCATIONS SCHEMATICALLY SHOWN FOR BASIC SECURITY OPTION



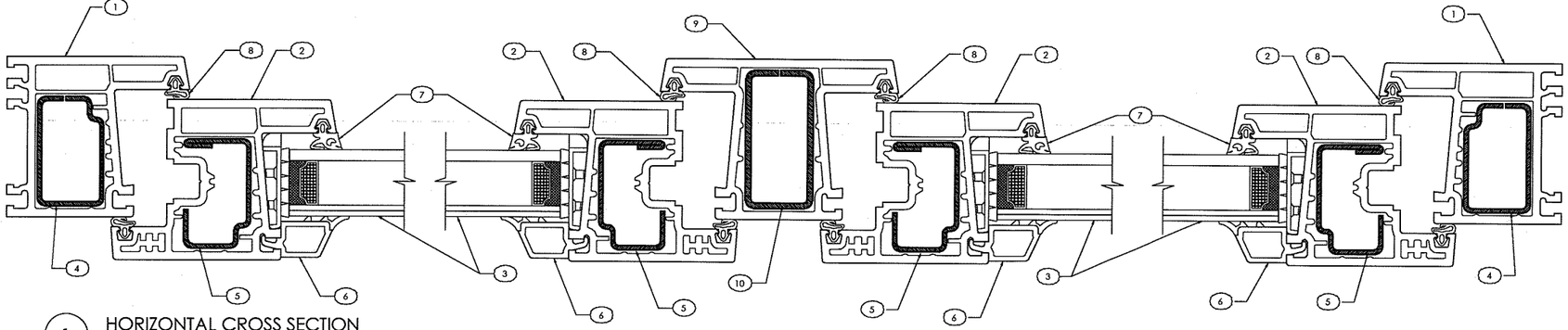
KOEMMERLING U-PVC/ EURODUR TILT & SLIDE
DOOR SYSTEM



2 VERTICAL CROSS SECTION

SCALE : NTS

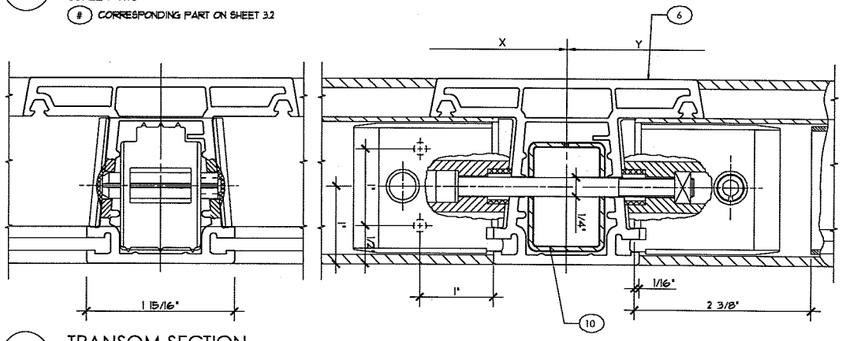
(#) CORRESPONDING PART ON SHEET 3.2



1 HORIZONTAL CROSS SECTION

SCALE : NTS

(#) CORRESPONDING PART ON SHEET 3.2



3 TRANSOM SECTION

SCALE : NTS

(#) CORRESPONDING PART ON SHEET 3.2

DANSCO ENGINEERING, LLC
P.O. BOX 3400
Apollo Beach, Florida 33572
Phone: 813.645.0166
Fax: 813.645.9698
www.danscoengineering.com
CA 25948

Eurocraft INDUSTRIES INC.

EUROCRAFT WINDOWS

REVISION:

DATE	DESCRIPTION

☐ SAMUEL A. GREENBERG, P.E. #34245
☐ THUY H. HUYNH, P.E. #60122
☐ IRWIN J. BENSON, P.E. #49758
☒ ANDREW D. HAROLD, P.E. #66715

ENGINEER SEAL:

ANDREW D. HAROLD LICENSE No. 66715 STATE OF FLORIDA PROFESSIONAL ENGINEER

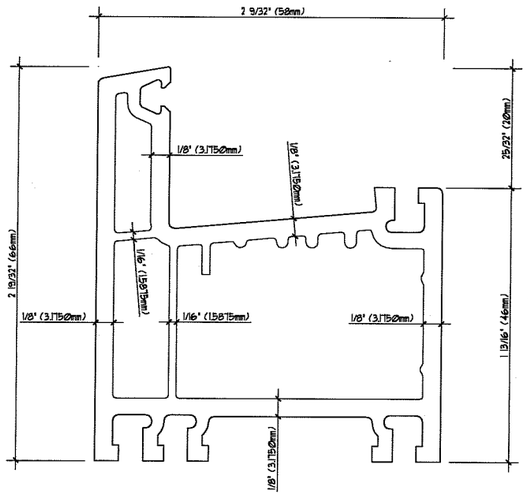
1/30/09

SHEET TITLE:
CROSS SECTIONS

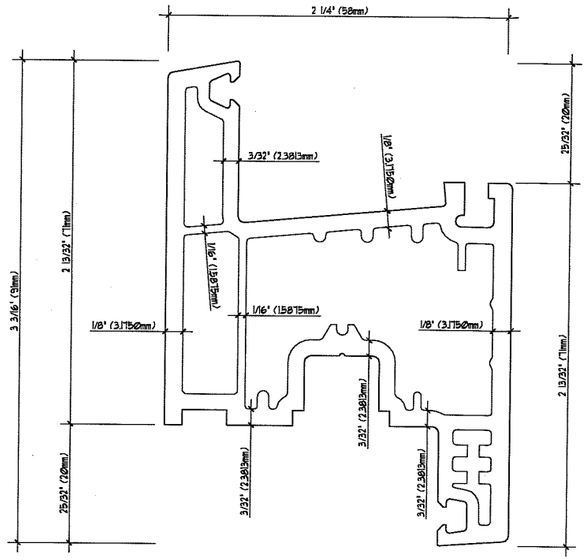
SHEET INFORMATION:

JOB NO.:	281188
DATE ISSUED:	01.30.09
DRAWN BY:	AR
REVIEWED BY:	ADH

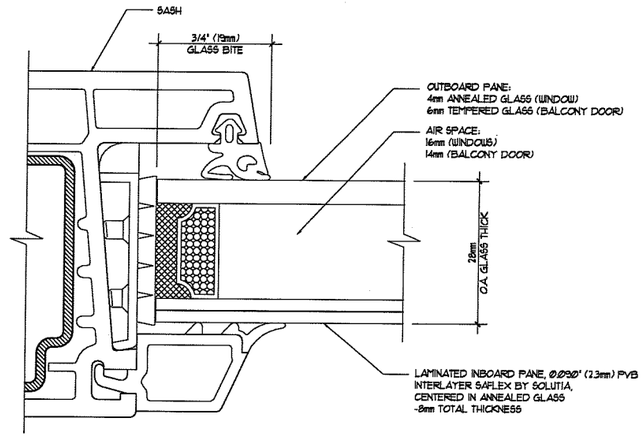
2.2



1 FRAME 1401.W
SCALE : NTS



2 SASH 1411.W
SCALE : NTS

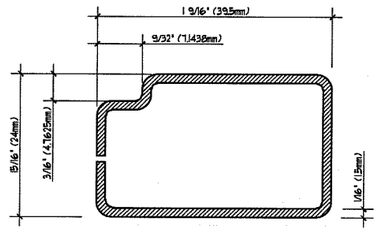


TEMPERED GLASS IS REQUIRED IN FIXED OR OPERABLE PANELS WITH INDIVIDUAL PANES ≥ 9FT², EXPOSED BOTTOM EDGE ≤ 18" ABOVE FLOOR, EXPOSED TOP EDGE ≥ 36" ABOVE FLOOR, AND WALKING SURFACE WITHIN 36" EITHER SIDE.

3 GLAZING DETAIL
SCALE : NTS

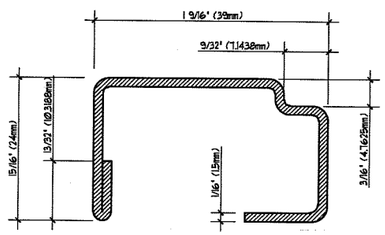
NOTES:

1. KOMMERLING SYSTEM EURODUR 35 PART NUMBERS ARE LISTED AS SHOWN FOR PRIMARY COMPONENTS OF THIS SYSTEM.
2. FRAME AND SASH REINFORCEMENT ARE COLD-ROLLED STEEL
3. GLAZING BEADS AND GASKETS ARE FLEXIBLE VINYL.



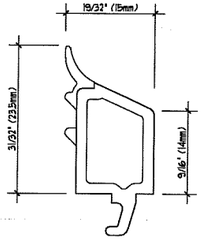
$I_y = 0.038 in^4$ (1.6cm⁴)
$I_z = 0.082 in^4$ (3.4cm⁴)

4 REINFORCEMENT 9203.1
SCALE : NTS

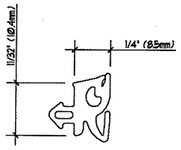


$I_y = 0.029 in^4$ (1.2cm⁴)
$I_z = 0.086 in^4$ (3.6cm⁴)

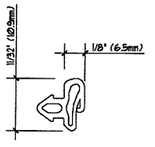
5 REINFORCEMENT 9183.1
SCALE : NTS



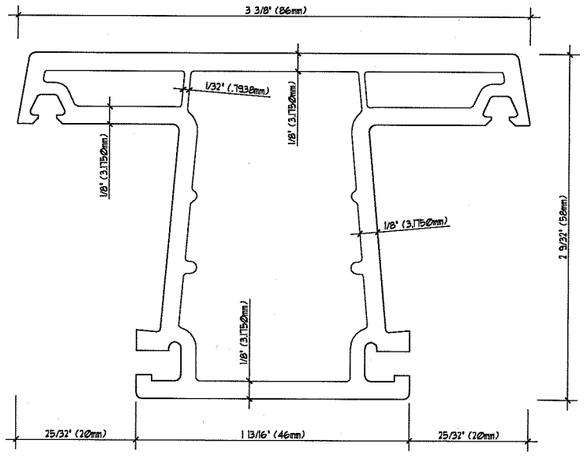
6 GLAZING BEADS W/ LIP SEAL 1431.1
SCALE : NTS



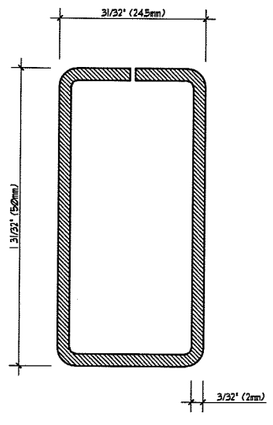
7 GASKET F40-45-9044
SCALE : NTS



8 GASKET F00-45-9072
SCALE : NTS



9 TRANSOME 1425.W
SCALE : NTS



$I_y = 0.064 in^4$ (2.7cm⁴)
$I_z = 0.201 in^4$ (8.4cm⁴)

10 REINFORCEMENT 9130.2
SCALE : NTS

DE DANSCO ENGINEERING, LLC
P.O. BOX 3400
Apollo Beach, Florida 33572
Phone: 813.645.0166
Fax: 813.645.9698
www.danscoengineering.com
CA 25948

Eurocraft INDUSTRIES INC

EUROCRAFT WINDOWS

REVISION:

DATE	DESCRIPTION

☐ SAMUEL A. GREENBERG, P.E. #34245
☐ THUY H. HUYNH, P.E. #60122
☐ IRWIN J. BENSON, P.E. #49758
☒ ANDREW D. HAROLD, P.E. #66715

ENGINEER SEAL:

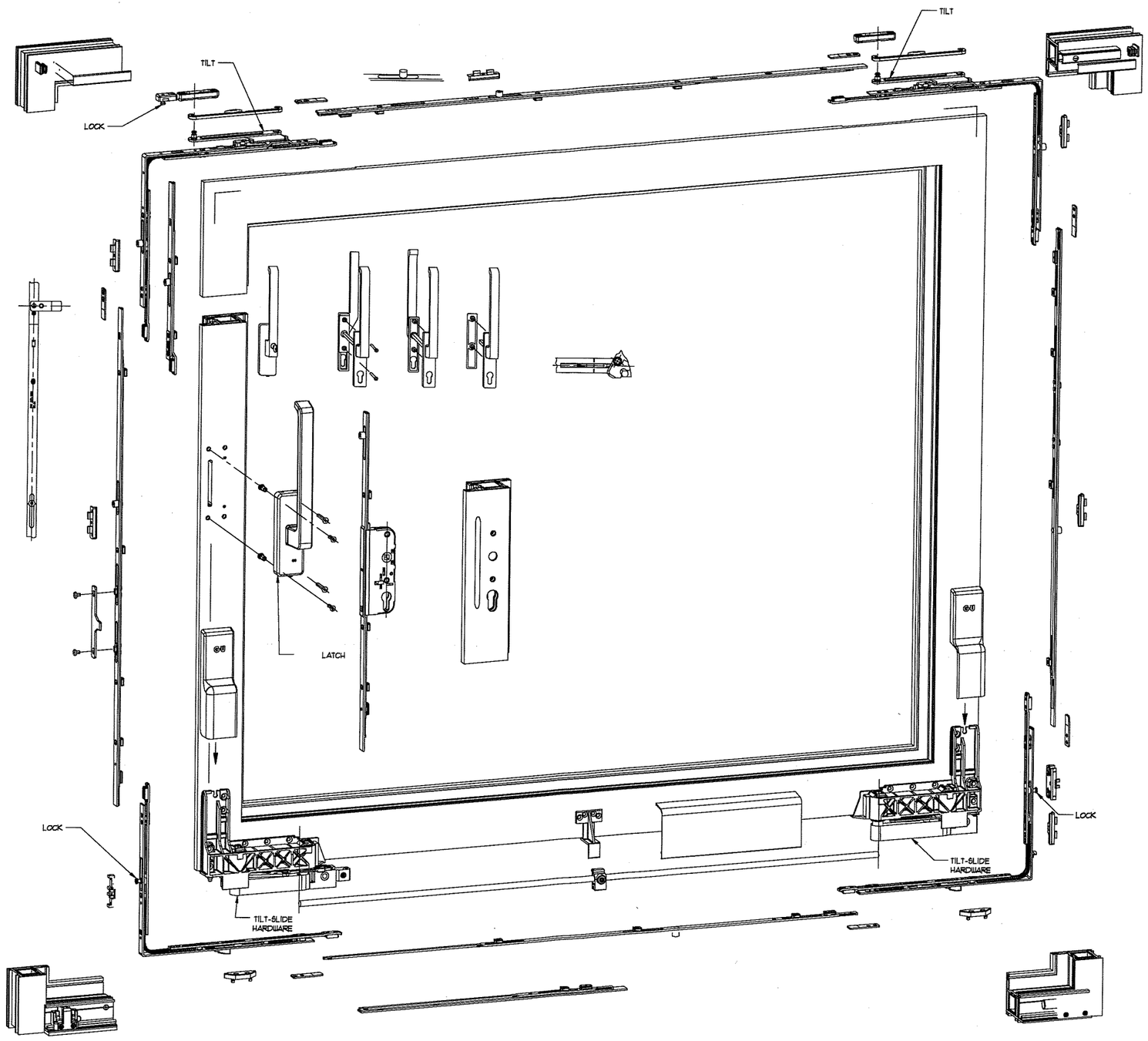
ANDREW D. HAROLD LICENSE No. 66715 STATE OF FLORIDA PROFESSIONAL ENGINEER
1/30/09

SHEET TITLE:
COMPONENTS

SHEET INFORMATION:

JOB NO.:	281188
DATE ISSUED:	01.30.09
DRAWN BY:	AR
REVIEWED BY:	ADH

3.2



1 SCHEMATIC HARDWARE ASSEMBLY

SCALE : NTS ACTUAL ASSEMBLY VARIES WITH WINDOW DOOR SIZE

DE DANSCO ENGINEERING, LLC
P.O. BOX 3400
Apollo Beach, Florida 33572
Phone: 813.645.0166
Fax: 813.645.9698
www.danscoengineering.com
CA 25948

Eurocraft INDUSTRIES INC.

EUROCRAFT WINDOWS

REVISION:

DATE	DESCRIPTION

☐ SAMUEL A. GREENBERG, P.E. #34245
☐ THUY H. HUYNH, P.E. #60122
☐ IRWIN J. BENSON, P.E. #49758
☒ ANDREW D. HAROLD, P.E. #66715

ENGINEER SEAL:

ANDREW D. HAROLD LICENSE No. 66715 STATE OF FLORIDA PROFESSIONAL ENGINEER

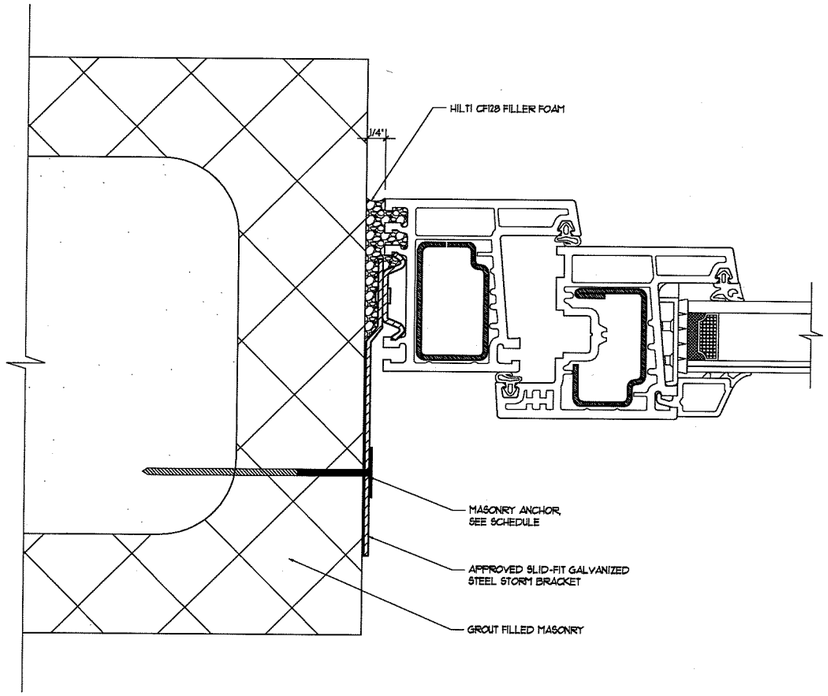
1/30/09

SHEET TITLE:
SCHEMATIC HARDWARE ASSEMBLY (TILT-SLIDE)

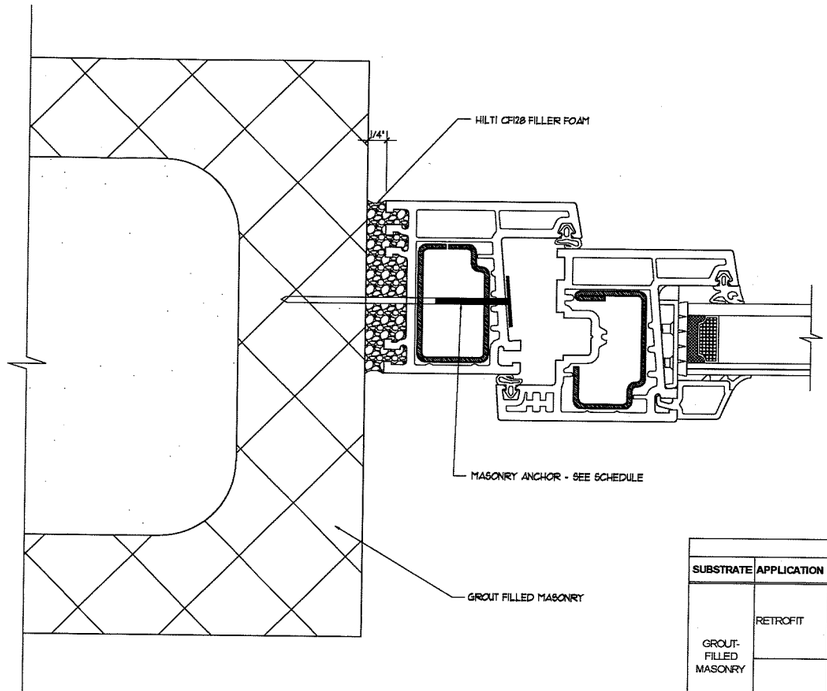
SHEET INFORMATION:

JOB NO.:	281188
DATE ISSUED:	01.30.09
DRAWN BY:	AR
REVIEWED BY:	ADH

4.2



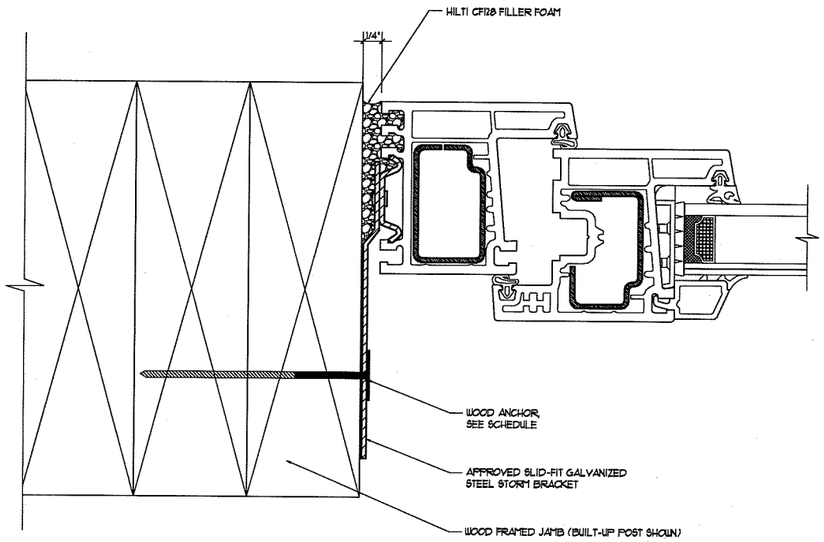
1 FRAME CONNECTION TO MASONRY - NEW CONSTRUCTION
SCALE : NTS



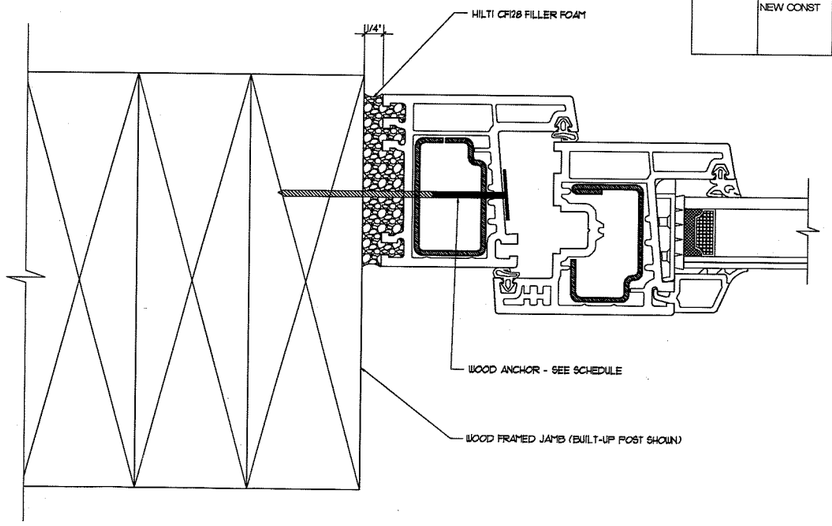
2 FRAME CONNECTION TO MASONRY - RETROFIT
SCALE : NTS

FRAME ANCHORAGE SCHEDULE

SUBSTRATE	APPLICATION	FASTENER	MIN EMBED	MIN EDGE	MIN SPACING	MAX SPACING	ALLOWABLE SHEAR
GROUT-FILLED MASONRY	RETROFIT	WURTH AMO III, TYPE 2 GALV STEEL (BLUE ANODIZED)	2-3/8"	2-1/2"	3"	11"	112 lb
	NEW CONST	1/4" x 2-1/4" TAP-CON IN APPROVED SLID-FIT GALV STEEL STORM BRACKET	1-1/4"	2-1/2"	3"	11"	265 lb
WOOD	RETROFIT	WURTH AMO III, TYPE 2 STEEL, YELLOW GALV	2-3/8"	2-1/2"	3"	11"	112 lb
	NEW CONST	#12 x 2" SS WOOD SCREWS IN APPROVED SLID-FIT GALV STEEL STORM BRACKET	1-3/8"	2-1/2"	3"	11"	160 lb



3 FRAME CONNECTION TO WOOD - NEW CONSTRUCTION
SCALE : NTS



4 FRAME CONNECTION TO WOOD - NEW RETROFIT
SCALE : NTS

DE DANSCO ENGINEERING, LLC
P.O. BOX 3400
Apollo Beach, Florida 33572
Phone: 813.645.0166
Fax: 813.645.7698
www.danscoengineering.com
CA 25948

Eurocraft INDUSTRIES INC.

EUROCRAFT WINDOWS

REVISION:

DATE	DESCRIPTION

☐ SAMUEL A. GREENBERG, P.E. #34245
☐ THUY H. HUYNH, P.E. #60122
☐ IRWIN J. BENSON, P.E. #49758
☒ ANDREW D. HAROLD, P.E. #66715

ENGINEER SEAL:

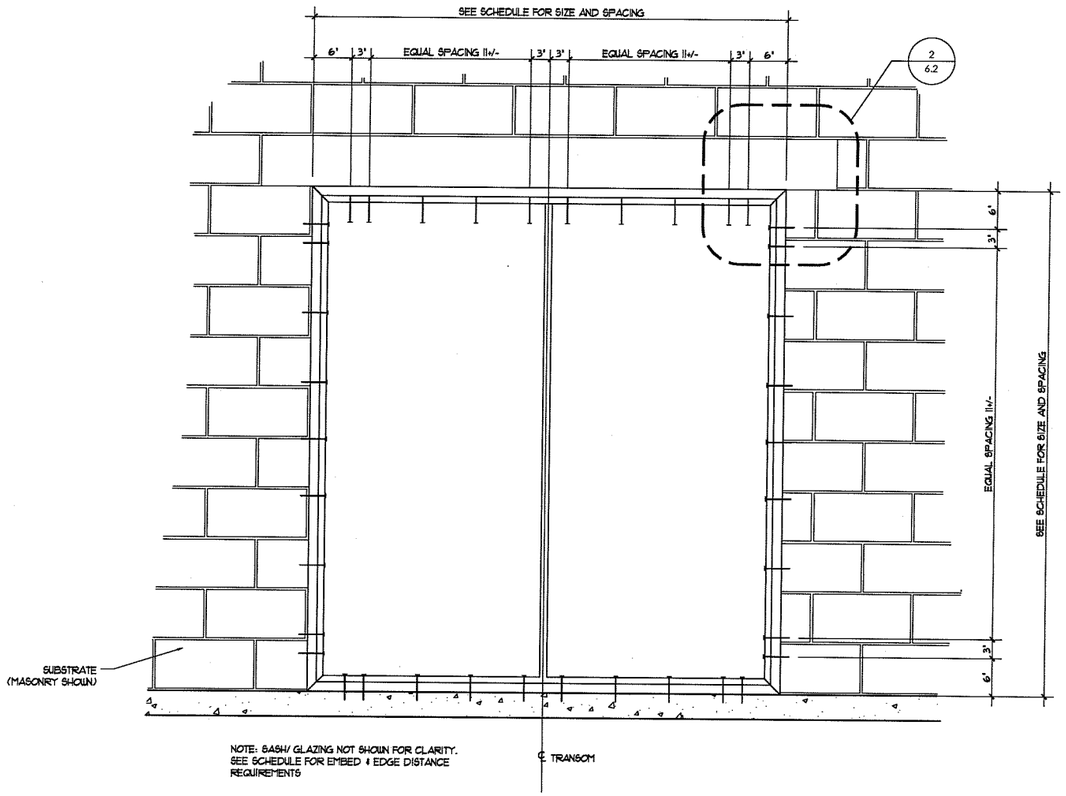
ANDREW D. HAROLD LICENSE No. 66715 STATE OF FLORIDA PROFESSIONAL ENGINEER
1/30/09

SHEET TITLE:
FRAME ANCHORAGE DETAILS & SCHEDULE

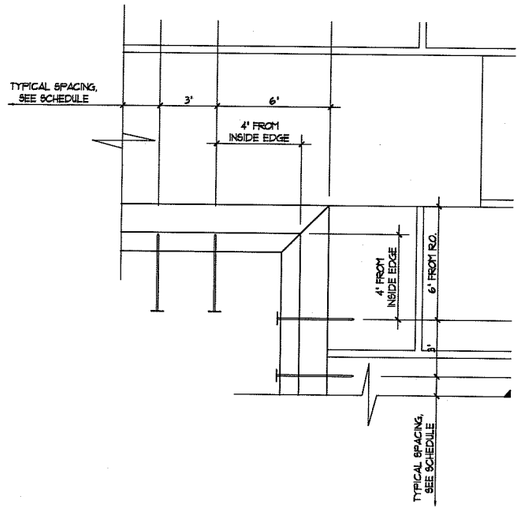
SHEET INFORMATION:

JOB NO.:	281188
DATE ISSUED:	01.30.09
DRAWN BY:	AR
REVIEWED BY:	ADH

5.2



1 FRAME ANCHORAGE-DOUBLE
SCALE : NTS



2 FRAME DETAIL
SCALE : NTS

DANSCO ENGINEERING, LLC
P.O. BOX 3400
Apollo Beach, Florida 33572
Phone: 813.645.0166
Fax: 813.645.9698
www.danscoengineering.com
CA 25948

Eurocraft INDUSTRIES, INC.

EUROCRAFT WINDOWS

REVISION:

DATE	DESCRIPTION

- ☐ SAMUEL A. GREENBERG, P.E. #34245
- ☐ THUY H. HUYNH, P.E. #60122
- ☐ IRWIN J. BENSON, P.E. #49758
- ☒ ANDREW D. HAROLD, P.E. #66715

ENGINEER SEAL:

ANDREW D. HAROLD LICENSE No. 66715 STATE OF FLORIDA PROFESSIONAL ENGINEER
1/30/09

SHEET TITLE:
FRAME ANCHORAGE ELEVATION

SHEET INFORMATION:

JOB NO.:	281188
DATE ISSUED:	01.30.09
DRAWN BY:	AR
REVIEWED BY:	ADH

6.2