



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "1630-SS-IR Dry Glazed" 8¹³/₁₆" Aluminum Curtain Wall System - S.M.I.

APPROVAL DOCUMENT: Drawing No. 1848, Series titled "8¹³/₁₆" Deep 1630-SS-IR Dry Glazed SMI Curtain Wall", sheets 01 through 21 of 21, dated 01/15/13, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Section Approval stamp with the Notice of Acceptance number and Approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



JGASCON
8/1/13

NOA No. 13-0522.13
Expiration Date: August 08, 2018
Approval Date: August 08, 2013
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS (CONTINUED)

3. Test Report No. **73703**, prepared by Excel Polymers, LLC, an A2LA accredited laboratory, dated 04/11/11, issued to Tremco, Inc. for TREMCO Part No. **TR-20494P** EPDM exterior glazing gasket complying with ASTM D573 70 HRS at 212°F, D412 1800 PSI, D395B 22 HRS at 158°F, D1149 100 HRS at 104°F passed, D325B passed and D2137 3-Minutes at -40°F passed.
4. Test Report No. **74326**, prepared by Excel Polymers, LLC, an A2LA accredited laboratory, dated 04/26/11, issued to Tremco, Inc. for TREMCO Part No. **TR-20087E** EPDM exterior glazing gasket complying with ASTM D573 70 HRS at 212°F, ASTM D412 1800 PSI, D395B 22 HRS at 158°F, D1149 100 HRS at 104°F passed, D325B passed and D2137 method A 3-Minutes at -40°F passed, D2240 durometer 70⁺⁵ shore A, D624 tear die 200lb/ in. and D925 migration stain passed.

D. STATEMENTS

1. Statement letter of conformance and complying with **FBC-2010**, dated 01/09/13, issued by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of no financial interest and independence, dated 01/09/13, issued by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
3. Laboratory compliance letters for Test Reports No.'s **ATI-C0438.01-450-18** and **ATI-C0438.02-450-18**, issued by Architectural Testing, Inc., both dated 03/28/13, signed and sealed by Vinu J. Abraham, P. E.
4. Proposal No. **11-0217** issued by Product Control, dated 06/15/12, signed by Jaime D. Gascon, P. E.

G. OTHERS

1. None.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13-0522.13
Expiration Date: August 08, 2018
Approval Date: August 08, 2013

GENERAL NOTES:

1. THESE CURTAIN WALL SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR SMALL MISSILE IMPACT CURTAIN WALL SYSTEMS.
5. THESE CURTAIN WALL SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. THIS CURTAIN WALL SYSTEM MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE WITHOUT AN APPROVED SHUTTER.
7. ALL ANCHORS SECURING CURTAIN WALL FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $KD = 0.85$ MAY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF THE ASCE 7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $CD = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. THERE SHALL BE NO LIMIT TO THE NUMBER OF HORIZONTAL & VERTICAL PANELS USED FOR ANY JOB PROVIDING ALL RESTRICTIONS ARE MET PER THE ELEVATIONS.

DRAWING USE INSTRUCTIONS:

1. DETERMINE IF THE WALL SYSTEM IS TO BE A MULTI-SPAN OR SINGLE SPAN CONDITION. IF MULTI-SPAN, THE ELEVATIONS SHOWN ON SHEET 3 SHALL APPLY. IF A SINGLE SPAN, THE ELEVATIONS SHOWN ON SHEET 4 SHALL APPLY.

CORNER CONSTRUCTION:

HEAD & SILL MEMBERS TO STANDARD VERTICAL SIDE & INTERMEDIATE MEMBERS: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED THROUGH VERTICAL MEMBERS & INTO THE HORIZONTAL MEMBERS SCREW SPLINES WITH 2 NO. 12 X 1" HWHTIF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

INTERMEDIATE HORIZONTAL MEMBERS TO STANDARD VERTICAL SIDE & INTERMEDIATE MEMBERS: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED THROUGH VERTICAL MEMBERS & INTO THE HORIZONTAL MEMBERS SCREW SPLINES WITH 4 NO. 12 X 1" HWHTIF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

HEAD & SILL MEMBERS TO CORNER FRAMING MEMBER: VERTICAL CORNER MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE MITER CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEMS #9 OR #10). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL CORNER FRAME MEMBERS WITH 4 NO. 12 X 7/16" PHTF SCREWS. THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 2 NO. 12 X 5/8" PHTF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

INTERMEDIATE HORIZONTAL MEMBERS TO CORNER FRAMING MEMBER: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEM #11). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL CORNER FRAME MEMBERS WITH 4 NO. 12 X 7/16" PHTF SCREWS. THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 4 NO. 12 X 1" FHTF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

FREE SPANNING PERIMETER FRAME MEMBER PERIMETER SEALANT NOTE:

THE MINIMUM & MAXIMUM ALLOWABLE SPACE BETWEEN PERIMETER FRAME MEMBERS & THE OPENING SUBSTRATE OR FINISHES SHALL BE SPECIFIED BY THE ENGINEER OR ARCHITECT OF RECORD FOR EACH JOB BUT SHALL NOT BE LESS THAN 1/2" NOR GREATER THAN 1 3/8". WHEN CONSIDERING TYPE, DEPTH & JOINT SPAN OF SEALANT, THE ENGINEER/ARCHITECT SHALL TAKE INTO CONSIDERATION THE DEFLECTION OF THE JAMB MEMBER THAT WOULD OCCUR WHILE SUPPORTING THE JOB REQUIRED DESIGN WIND PRESSURE. ALSO TO BE CONSIDERED SHALL BE THE MATERIALS & SURFACES TO WHICH THE SEALANT WILL BE APPLIED.

MAXIMUM ALLOWABLE VERTICAL FRAMING MEMBER DEFLECTION

INTERMEDIATE & CORNER FRAMING MEMBERS:

L/180

PERIMETER SIDE FRAMING MEMBERS:

LESSER OF L/180 OR 0.86"

NOTES:

1. L/180 = MEMBER'S UNSUPPORTED SPAN LENGTH DIVIDED BY 180.
2. THIS IS THE MAXIMUM ALLOWABLE DEFLECTION AS RESTRICTED BY TESTING & THE BUILDING CODE. IF JOB CONDITIONS REQUIRE LESS DEFLECTION, THE JOB CONDITIONS SHALL CONTROL.

MAXIMUM ALLOWABLE DESIGN PRESSURE (MULTI & SINGLE SPAN CURTAIN WALL)

+130/-130 PSF

1. THE ABOVE STATED PRESSURES ARE THE MAXIMUM ALLOWED ON ANY JOB REGARDLESS OF WHAT THE JOB SPECIFIC DESIGN RESULTS MAY SHOW. INCREASE OF ALLOWABLE DESIGN PRESSURE ON ANY JOB IS CONSIDERED OUTSIDE THE SCOPE OF THIS APPROVAL. SEE "CURTAIN WALL DESIGN NOTES" ON THIS SHEET FOR ACTUAL JOB DESIGN CONDITIONS.

GLASS D.L.O. SIZE VS. PRESSURE

GLASS OPTIONS	MAXIMUM D.L.O. WIDTH	MAXIMUM D.L.O. HEIGHT	MISSILE LEVEL RATING	ALLOWABLE DESIGN PRESSURE
1 & 2	60"	93"	S.M.I.	+/-130 PSF
	93"	60"	S.M.I.	+/-130 PSF

SEE GLAZING DETAILS FOR GLASS OPTIONS

FRAME MEMBER END ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	ANCHOR TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
1/4" OR NO. 14 SCREWS/BOLTS			
(4) MIN. 6" WIDE X 2" THICK WOOD FRAME OR BUCK (MIN. GR. 2 & G=0.55)	1/4" LAG OR NO. 14 SMS OR WOOD SCREW	1 3/4"	1"
(4) MIN. 16 GA. 50 KSI METAL STUD, MIN. 1/8" THK A36 STEEL OR MIN. 1/8" THK 6063-T5 ALUMINUM	1/4-14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
	1/4" GR. 5 CS OR 410 SS BOLT WITH WASHER & LOCK NUT	FULL	1/2"
MIN. 3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"
5/16" SCREWS/BOLTS			
MIN. 1/8" THK A36 STEEL	5/16-24 GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
	5/16" GR. 5 CS OR 410 SS BOLT WITH WASHER & LOCK NUT	FULL	5/8"
1/2" SCREWS/BOLTS			
MIN. 1/4" THK A36 STEEL	1/2-13 300 SS HCMS OR GR. 5 CS THREAD FORMING SCREW	FULL	1"
MIN. 1/8" THK A36 STEEL	1/2" GR. 5 CS OR 410 SS BOLT WITH WASHER & LOCK NUT	FULL	1"
(3) MIN. 3000 PSI CONCRETE	(2) 1/2" CONCRETE SCREW ANCHOR	3 3/4"	SEE DETAILS

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S. OR S.S.).
- (2) 1/2" CONCRETE SCREWS SHALL BE SIMPSON STRONG-TIE TITAN HD SCREW ANCHOR (GALVANIZED STEEL).
- (3) SEE DETAILS ON SHEETS 8 & 9 FOR CONCRETE THICKNESS REQUIREMENTS WHEN 1/2" CONCRETE SCREWS ARE USED.
- (4) WOOD AND METAL STUD SUBSTRATES MAY NOT APPLY WITH LEVEL "E" CURTAIN WALL.

Approved as complying with the Florida Building Code
 Date: 08/08/2013
 NOAH: 13-0522.13
 Miami Code Product Control

Warren W. Schaefer



DRAWING BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-48	DATE: 01/15/13
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL	
MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
CERTIFICATION: APR 02 2013	WARREN W. SCHAEFER, P.E. P.E. NO. 44195
DRAWING NO. 1848	REV.
SHEET NO. 1 OF 21	

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

VERTICAL MEMBER END ANCHOR REACTION LOAD CAPACITY (MULTI & SINGLE SPAN CURTAIN WALL)

ANCHOR SECTION (3)	ANCHOR DESCRIPTION	(1) MAXIMUM ALLOWABLE REACTION LOAD
A1	SIDE MEMBER TO WOOD, METAL STUD OR ALUMINUM SUBSTRATE	877 LBS
A2	SIDE MEMBER TO STEEL SUBSTRATE	2058 LBS
A3	SIDE MEMBER TO CONCRETE SUBSTRATE	1990 LBS
B1	INTERMEDIATE MEMBER TO WOOD, METAL STUD OR ALUMINUM SUBSTRATE	1646 LBS
B2	INTERMEDIATE MEMBER TO STEEL SUBSTRATE	4515 LBS
B3	INTERMEDIATE MEMBER TO CONCRETE SUBSTRATE	3626 LBS
C1	INTERMEDIATE DOOR JAMB MEMBER TO CONCRETE OR STEEL SUBSTRATE AT SILL	3511 LBS
D1	CORNER MEMBER TO STEEL SUBSTRATE	(2) 2726 LBS
D2	CORNER MEMBER TO CONCRETE SUBSTRATE	(2) 2726 LBS

(1) MAXIMUM ALLOWABLE REACTION LOADS SHOWN CONSIDER REACTIONS FROM WIND LOADS ONLY & APPLY TO BOTH POSITIVE & NEGATIVE WIND DIRECTIONS. IN ADDITION TO WIND LOADS, THE CURTAIN WALL DESIGN ENGINEER OF RECORD FOR EACH PROJECT SHALL ALSO CONSIDER OTHER APPLICABLE LOADS SUCH AS, BUT POSSIBLY NOT LIMITED TO, DEAD LOADS FROM THE CURTAIN WALL WEIGHT.

(2) REACTION LOAD SHOWN FOR THE CORNER ANCHORS IS THE RESULTANT LOAD IN THE PLANE OF THE MULLION (LOAD FROM BOTH SIDES COMBINED INTO A RESULTANT). FOR EITHER SIDE LOAD, THE ALLOWABLE REACTION LOAD SHALL NOT EXCEED 1928 LBS FROM EITHER SIDE FOR ANCHOR TYPES D1 & D2.

(3) FOR ANCHOR SECTIONS, SEE SECTIONS ON SHEETS 7 & 8.

WIND LOAD ANCHOR REACTION LOAD CAPACITY (MULTI & SINGLE SPAN CURTAIN WALL)

MEMBER TYPE	(1) MAXIMUM ALLOWABLE REACTION LOAD
SIDE	6125 LBS
INTERMEDIATE	11789 LBS
CORNER	(2) 8661 LBS

(1) WIND LOAD ANCHORS ARE APPLICABLE FOR WIND LOAD RESISTANCE ONLY. THEY ARE NOT APPLICABLE FOR SUPPORT OF WALL WEIGHT.

(2) REACTION LOAD SHOWN FOR THE CORNER ANCHORS IS THE RESULTANT LOAD IN THE PLANE OF THE MULLION (LOAD FROM BOTH SIDES COMBINED INTO A RESULTANT). FOR EITHER SIDE LOAD, THE ALLOWABLE REACTION LOAD SHALL NOT EXCEED 6125 LBS FROM EITHER SIDE.

(1) MAXIMUM ALLOWABLE BENDING MOMENTS IN VERTICAL FRAMING MEMBERS (MULTI AND SINGLE SPAN WALLS)

(2) VERTICAL MEMBER	(3) MAXIMUM ALLOWABLE BENDING MOMENT (POS & NEG)
SIDE MEMBER WITH REINFORCEMENT "R0"	(5) 61558 IN-LB
SIDE MEMBER WITH REINFORCEMENT "R1"	(5) 104060 IN-LB
SIDE MEMBER WITH REINFORCEMENT "R2"	(5) 104060 IN-LB
INTERMEDIATE MEMBER WITH NO REINFORCEMENT	56110 IN-LB
INTERMEDIATE MEMBER WITH REINFORCEMENT "R1"	98309 IN-LB
INTERMEDIATE MEMBER WITH REINFORCEMENT "R2"	185145 IN-LB
CORNER MEMBER WITH REINFORCEMENT "R3"	(4) 147141 IN-LB

NOTES:

(1) THE VALUES IN THIS TABLE ARE APPLICABLE TO THE JOB REQUIRED DESIGN OF THE MULTI-SPAN & SINGLE SPAN WALL SYSTEMS.

(2) FOR DESCRIPTIONS OF REINFORCEMENTS, SEE THE "VERTICAL MEMBER REINFORCEMENT LEGEND".

(3) ALL VALUES ARE BASED ON THE LESSER OF TESTED MOMENT AND ALLOWABLE MOMENT.

(4) MOMENT VALUE SHOWN FOR THE CORNER MULLION IS DUE TO THE RESULTANT LOAD IN THE PLANE OF THE MULLION (LOAD FROM BOTH SIDES COMBINED INTO A RESULTANT). FOR SINGLE SIDE LOAD, THE ALLOWABLE MOMENT SHALL NOT EXCEED 104060 IN-LB. IN THAT DIRECTION (LOAD VECTOR 45 DEGREES TO MULLION ANGLE).

(5) WHEN 2 SIDE MEMBERS ARE USED TO FORM A CORNER, EACH SIDE MEMBER SHALL BE RESTRICTED TO THE INDIVIDUAL ALLOWABLE MOMENT SHOWN IN THIS TABLE (EACH CONSIDERED TO RESIST ITS OWN SINGLE SIDE LOAD).

CURTAIN WALL DESIGN NOTES:

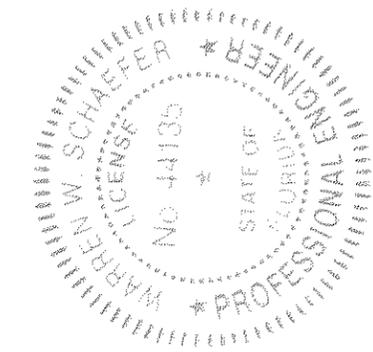
- WITH EACH APPLICABLE JOB, SHOP DRAWINGS SHALL BE PREPARED AND CERTIFIED BY A LICENSED ENGINEER EXPERIENCED WITH CURTAIN WALL DESIGN.
- THE RESPONSIBLE ENGINEER SHALL DESIGN THE WALL SYSTEM SEPARATELY FOR EACH JOB & CONFIRM THAT ALL CONDITIONS STATED HERE-IN HAVE BEEN CONSIDERED AND ADHERED TO IN THAT DESIGN.
- IN HIS/HER DESIGN, THE RESPONSIBLE ENGINEER SHALL VERIFY THE INTEGRITY OF ALL CONNECTIONS AND FRAMING MEMBERS & SHALL TAKE FULL RESPONSIBILITY FOR THE INTEGRITY OF THE SYSTEM DESIGN AS A WHOLE WHILE NOT ALLOWING THE CONDITIONS STATED HERE-IN TO BE EXCEEDED. ALLOWABLE SUPPORT REACTIONS AND VERTICAL FRAMING MEMBER BENDING MOMENTS SHALL NOT EXCEED THOSE STATED IN THE TABLES ON THIS SHEET, REGARDLESS OF JOB DESIGN.
- THE CURTAIN WALL DESIGN ENGINEER SHALL CONSIDER ALL APPLICABLE REACTION LOADS IN HIS/HER DESIGN WHILE NOT ALLOWING THE REACTIONS RESULTING FROM WIND LOADS TO EXCEED THOSE SPECIFIED IN THE ANCHOR REACTION LOAD TABLE.
- THE WORSE CASE OF THE CONDITIONS SPECIFIED IN THIS PRODUCT APPROVAL DRAWING AND THOSE DETERMINED BY THE INDIVIDUAL JOB ENGINEER'S ANALYSIS & DESIGN SHALL CONTROL AS APPLICABLE FOR THE ACTUAL JOB.
- REGARDLESS OF JOB DETERMINED MEMBER STRESS & DEFLECTION CONDITIONS, THE FOLLOWING SHALL APPLY:
 - REINFORCEMENT TYPE R1 MUST BE PLACED BETWEEN SUPPORTS IN ALL VERTICAL FRAME MEMBERS THAT SPAN OVER 132" BETWEEN THEIR SUPPORTS (NOT REQUIRED IF THE UNSUPPORTED SPAN IS 132" OR LESS & THE JOB DESIGN ALLOWS FOR NO REINFORCEMENT).
 - REINFORCEMENT TYPE R2 MUST BE PLACED BETWEEN SUPPORTS IN ALL VERTICAL FRAME MEMBERS THAT SPAN OVER 144" BETWEEN THEIR SUPPORTS (NOT REQUIRED IF THE UNSUPPORTED SPAN IS 144" OR LESS & THE JOB DESIGN ALLOWS FOR LESSER OR NO REINFORCEMENT).
 - ALL VERTICAL INTERMEDIATE FRAMING MEMBERS SHALL BE REINFORCED ACROSS ALL INTERMEDIATE WIND LOAD ANCHOR LOCATIONS WITH ONE OF THE REINFORCEMENT TYPES R1 OR R2 AS SPECIFIED IN THE ELEVATION. THIS REINFORCEMENT SHALL EXTEND A MINIMUM OF 18" ABOVE & BELOW THE SUPPORT.
 - REINFORCEMENT TYPE R3 IS REQUIRED IN ALL VERTICAL CORNER FRAME MEMBERS. IT SHALL BE CONTINUOUS BETWEEN ALL MEMBER SPLICE JOINTS AND EXTEND TO WITHIN 15" OF WALL BASE, 15" OF A SPLICE & 15" OF THE WALL TOP.
- REINFORCEMENT IS NOT REQUIRED TO BE CONTINUOUS TOP TO BOTTOM WITHIN THE VERTICAL FRAMING MEMBERS. REINFORCEMENT MAY BE NON-CONTINUOUS, AS DETERMINED FOR EACH JOB, PROVIDING IT MEETS THE MINIMUM GUIDELINES OF THIS DRAWING.
- WHILE A TWIN SPAN IS SHOWN, MORE THAN 2 SPANS MAY EXIST WITHIN THE MAXIMUM OVERALL HEIGHT SHOWN.
- THE OVERALL CURTAIN WALL HEIGHT SHALL NOT EXCEED THAT SPECIFIED. HOWEVER, MORE THAN ONE CURTAIN WALL ASSEMBLY MAY BE STACKED ON ANY BUILDING PROVIDING EACH CURTAIN WALL ASSEMBLY IS RESTED ON SEPARATE BASE STRUCTURE.
- SPLICING OF VERTICAL FRAME MEMBERS MAY OCCUR BETWEEN SUPPORTS AS REQUIRED. LOCATION OF THOSE SPLICES SHALL BE WHERE A BENDING MOMENT OF NEAR ZERO(0) EXISTS IN THE MEMBER.
- THE ELEVATIONS SHOW ONE DOOR SECTION. MULTIPLE DOOR SECTIONS MAY OCCUR SIDE-BY-SIDE IN ONE WALL SYSTEM PROVIDING ALL REQUIREMENTS WITHIN THIS DRAWING ARE MET AND THE JOB DESIGN ALLOWS FOR THE MULTIPLE DOOR CONDITION.
- ALTHOUGH A DOOR SECTION IS SHOWN, THAT SECTION MAY EXIST WITH OR WITHOUT A DOOR.
- DOORS MUST ALWAYS BE PLACED BETWEEN 2 INTERMEDIATE VERTICAL FRAMING MEMBERS. THEY MAY NOT BE PLACED AGAINST A SIDE MEMBER.
- THERE IS NO LIMIT TO THE NUMBER OF SECTIONS HORIZONTALLY PROVIDING THE OPENING IS DESIGNED TO SUPPORT THE LOADS TRANSFERRED FROM THE WALL SYSTEM.
- ANY CONDITIONS THAT VARY FROM THOSE SPECIFIED HERE-IN SHALL BE SUBJECT TO SEPARATE EVALUATION AND CERTIFICATION BY A FLORIDA P.E. AND SHALL BE CONSIDERED OUTSIDE THE SCOPE OF THIS APPROVAL.

VERTICAL MEMBER REINFORCEMENT LEGEND

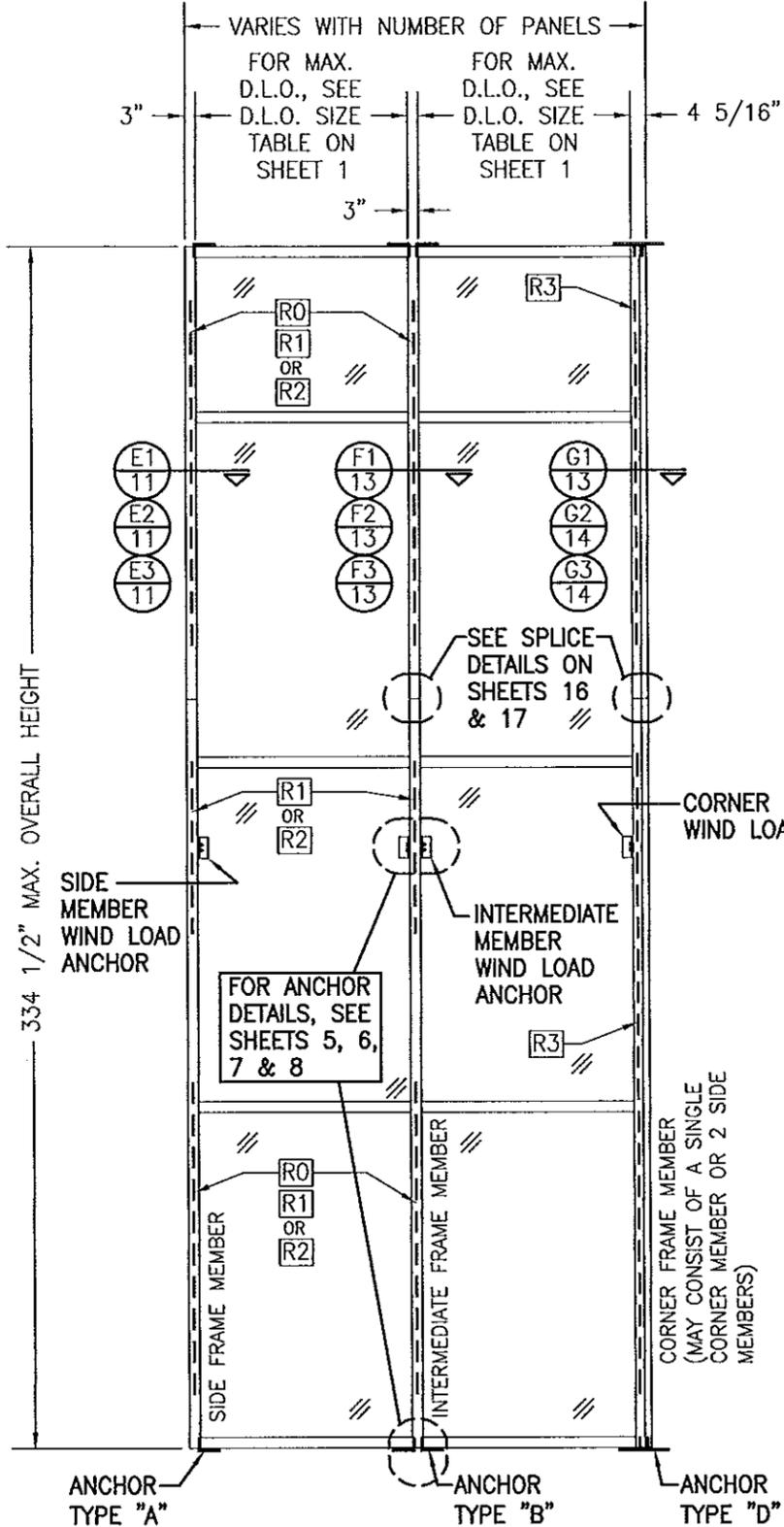
- [R0] = NO REINFORCEMENT
- [R1] = REINFORCED WITH 1 STEEL BAR PART NUMBER 28
- [R2] = REINFORCED WITH 2 STEEL BARS PART NUMBER 28
- [R3] = REINFORCED WITH 3 STEEL CHANNELS PART NUMBERS 29, 30 & 31

SEE PARTS DRAWINGS & PARTS LIST FOR APPLICABLE REINFORCEMENT MEMBERS & THEIR DETAIL.

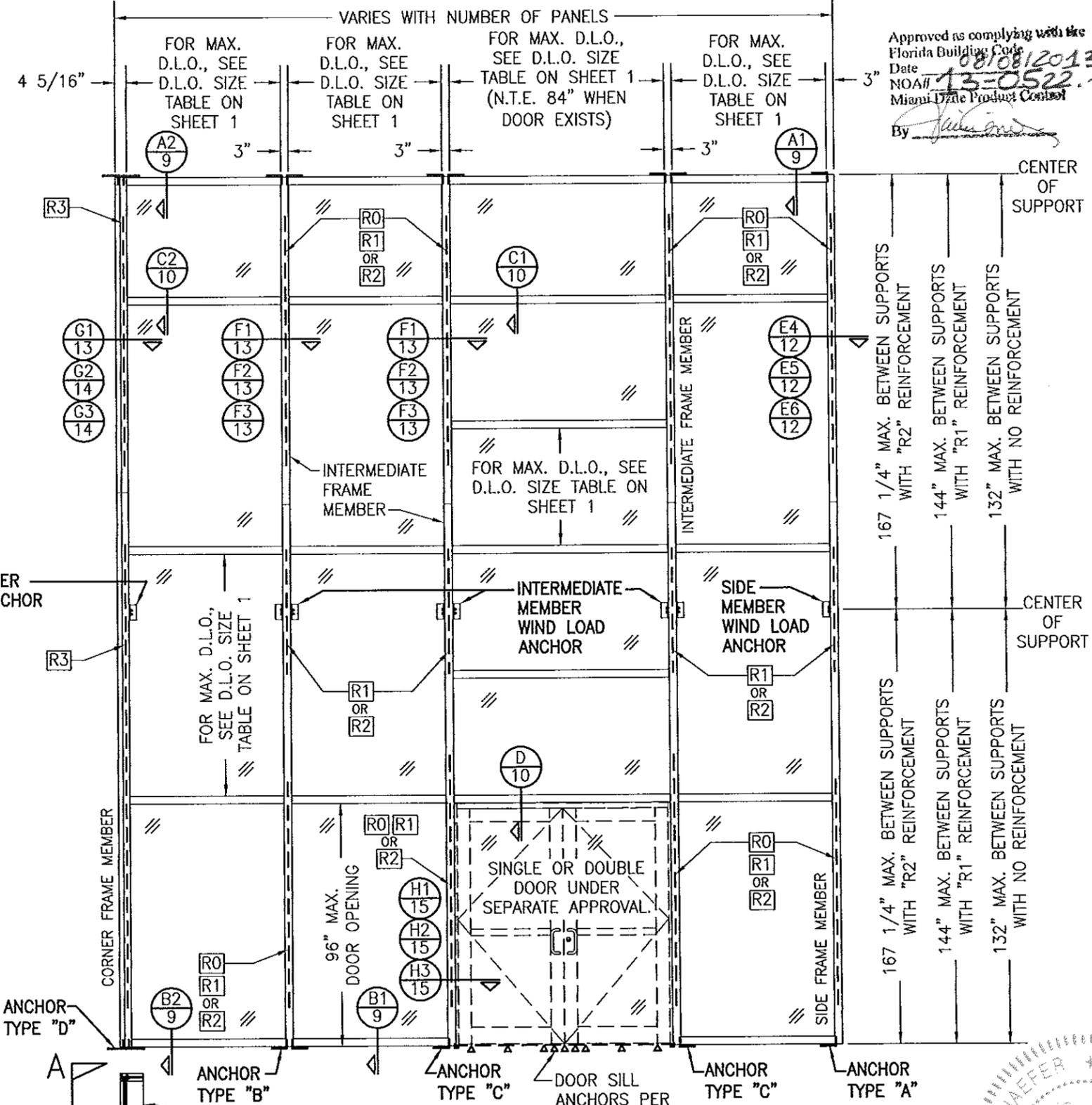
Approved as complying with the Florida Building Code
 Date 08/08/2013
 NOA# 13-052-13
 Miami-Dade Product Control
 By *[Signature]*



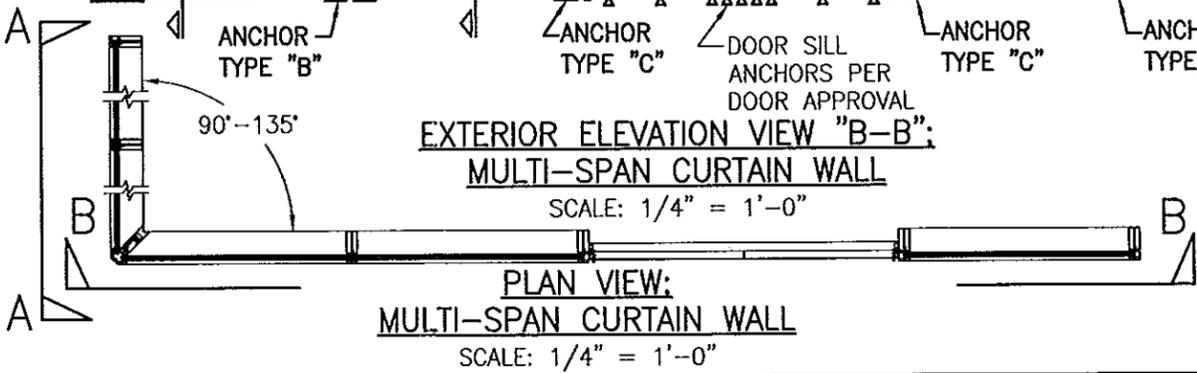
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-48	DATE: 01/15/13
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION APR 02 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1848	REV.
SHEET NO. 2 OF 21	



EXTERIOR ELEVATION VIEW "A-A":
MULTI-SPAN CURTAIN WALL
 SCALE: 1/4" = 1'-0"



EXTERIOR ELEVATION VIEW "B-B":
MULTI-SPAN CURTAIN WALL
 SCALE: 1/4" = 1'-0"



PLAN VIEW:
MULTI-SPAN CURTAIN WALL
 SCALE: 1/4" = 1'-0"

VERTICAL FRAME MEMBER END ANCHOR NOTE:
 END ANCHORS AT THE TOP ENDS MAY BE TYPES "A", "B" OR "D" AS SPECIFIED AT THE BASE OR THEY MAY BE SUBSTITUTED WITH WIND LOAD ANCHORS. IF WIND LOAD ANCHORS ARE USED, THEY MUST BE POSITIONED SUCH THAT THE WIND LOAD ANCHOR TOP EDGE IS NO MORE THAN 6" DOWN FROM THE VERTICAL MEMBER END.

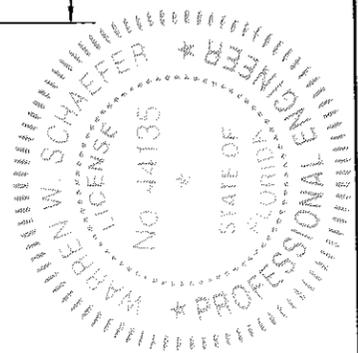
Approved as complying with the Florida Building Code
 Date 08/08/2013
 NOAH# 13-0522.13
 Miami Dade Product Control
 By [Signature]

DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1=48	DATE:	01/15/13
NO.		REVISION DESCRIPTION	

DRAWING TITLE
 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL

MANUFACTURER
 KAWNEER COMPANY, INC.
 555 GUTHRIE COURT
 NORCROSS, GA 30092
 770-449-5555

CONSULTANTS
 W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
 7480 150TH COURT NORTH
 PALM BEACH GARDENS, FL 33418
 PHONE: 561-744-3424



CERTIFICATION
 APR 02 2013

WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135

DRAWING NO.	1848	REV.	
SHEET NO.	3	OF	21

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=48	DATE: 01/15/13
DATE	
BY	
REVISION DESCRIPTION	
NO.	

DRAWING TITLE
8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL

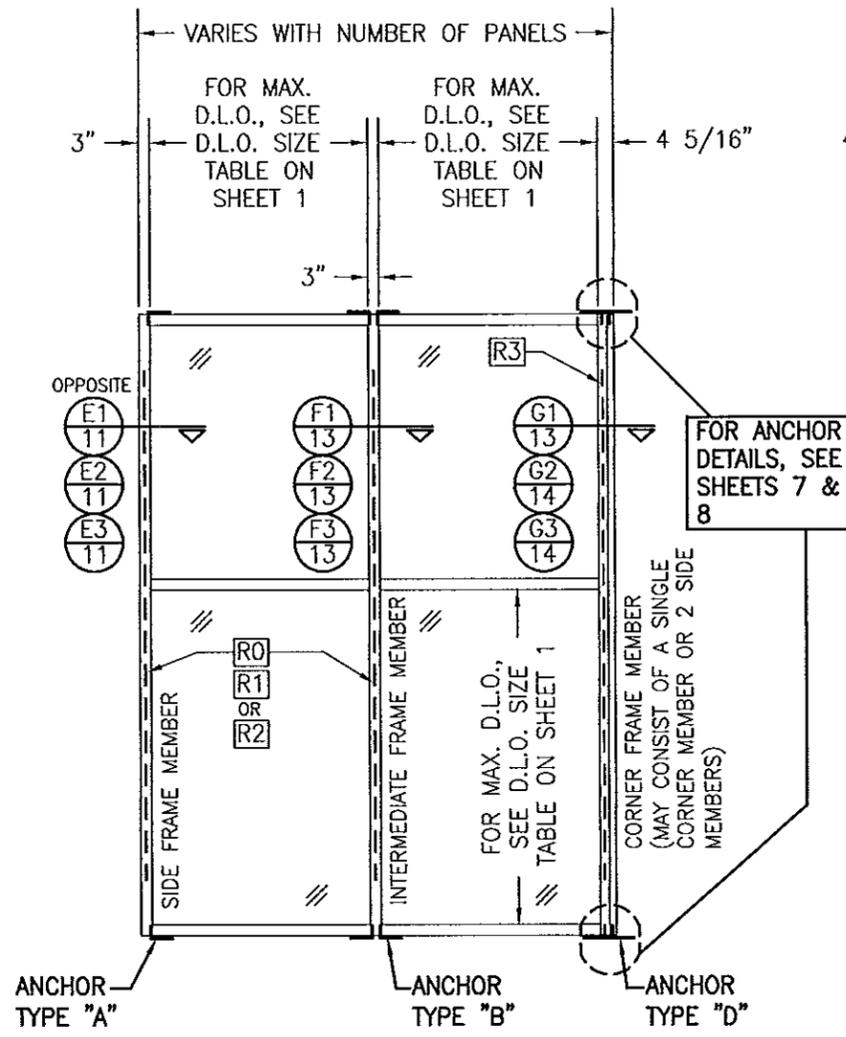
MANUFACTURER
KAWNEER COMPANY, INC.
 555 GUTHRIE COURT
 NORCROSS, GA 30092
 770-449-5555

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
 7480 150TH COURT NORTH, 33418
 PALM BEACH GARDENS, FL
 PHONE: 561-744-5424

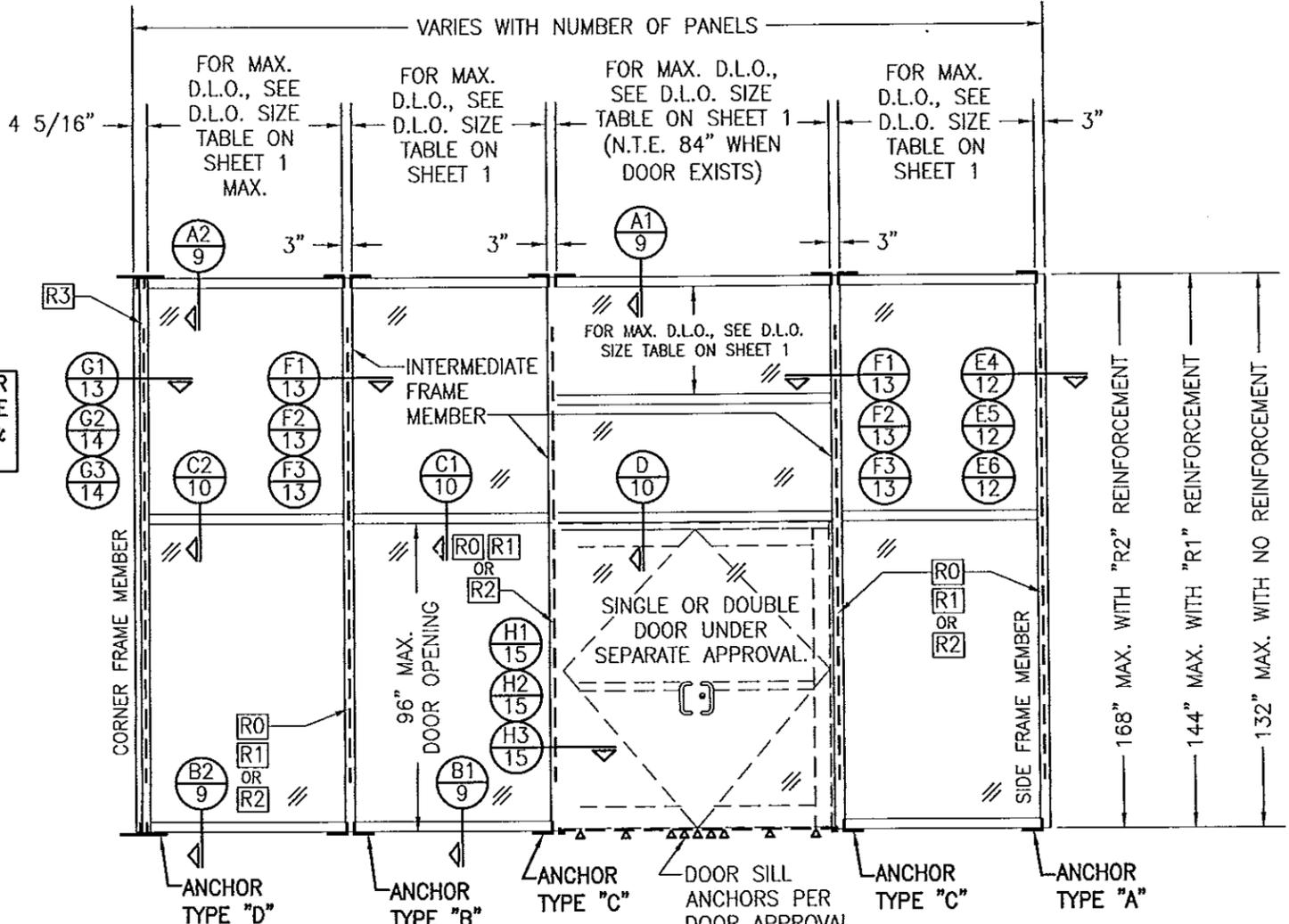
CERTIFICATION
APR 02 2013

WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135

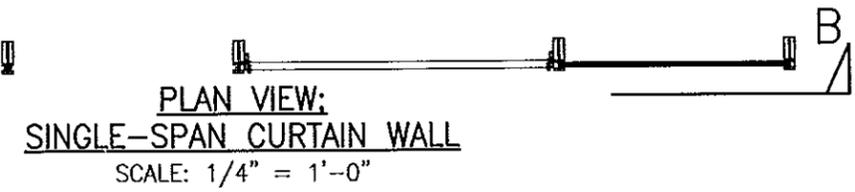
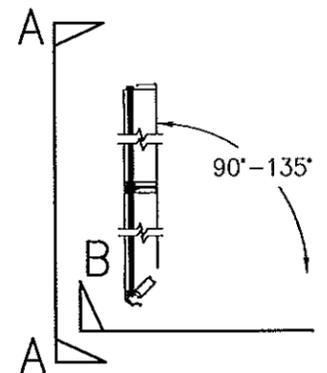
DRAWING NO. **1848** REV.
 SHEET NO. **4** OF **21**



**EXTERIOR ELEVATION VIEW "A-A":
 SINGLE-SPAN CURTAIN WALL**
 SCALE: 1/4" = 1'-0"



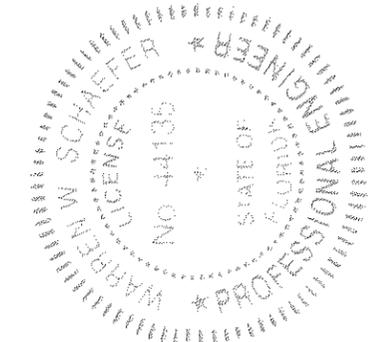
**EXTERIOR ELEVATION VIEW "B-B":
 SINGLE-SPAN CURTAIN WALL**
 SCALE: 1/4" = 1'-0"

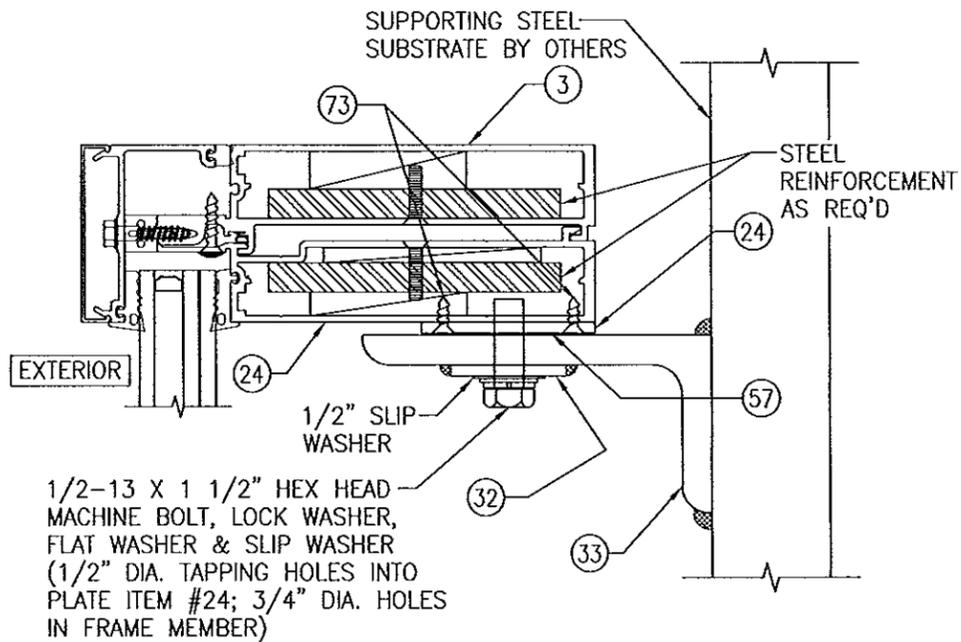


**PLAN VIEW:
 SINGLE-SPAN CURTAIN WALL**
 SCALE: 1/4" = 1'-0"

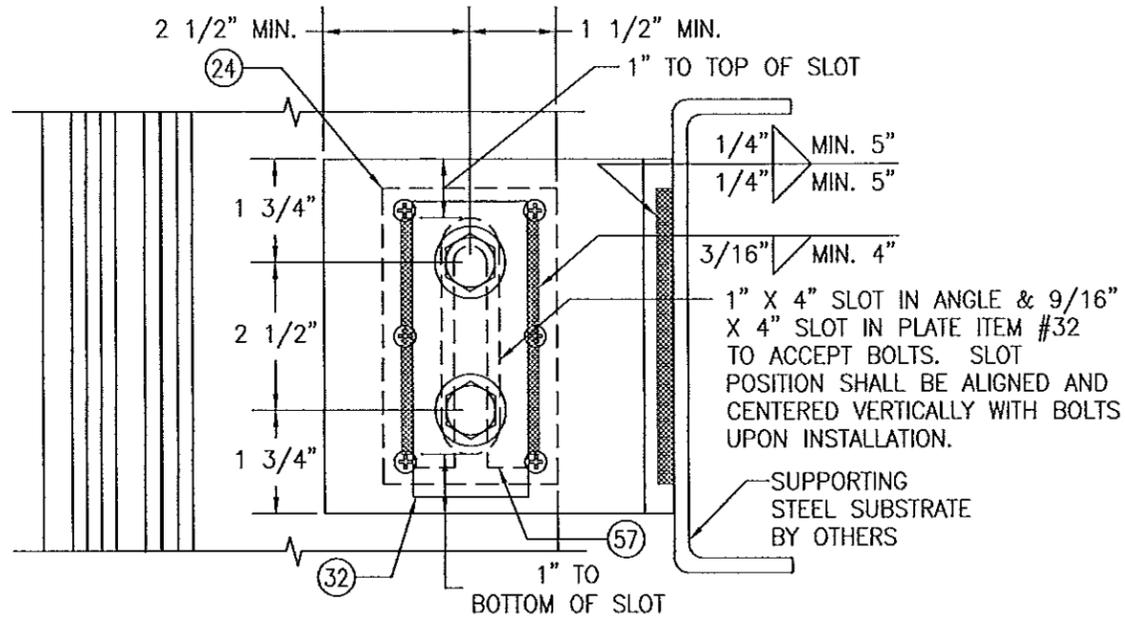
VERTICAL FRAME MEMBER END ANCHOR NOTE:
 END ANCHORS AT THE TOP ENDS MAY BE TYPES "A", "B" OR "D" AS SPECIFIED AT THE BASE OR THEY MAY BE SUBSTITUTED WITH WIND LOAD ANCHORS. IF WIND LOAD ANCHORS ARE USED, THEY MUST BE POSITIONED SUCH THAT THE WIND LOAD ANCHOR TOP EDGE IS NO MORE THAN 6" DOWN FROM THE VERTICAL MEMBER END.

Approved as complying with the
 Florida Building Code
 Date 08/08/2013
 NOA# 13-0522-13
 Miami Code Product Control





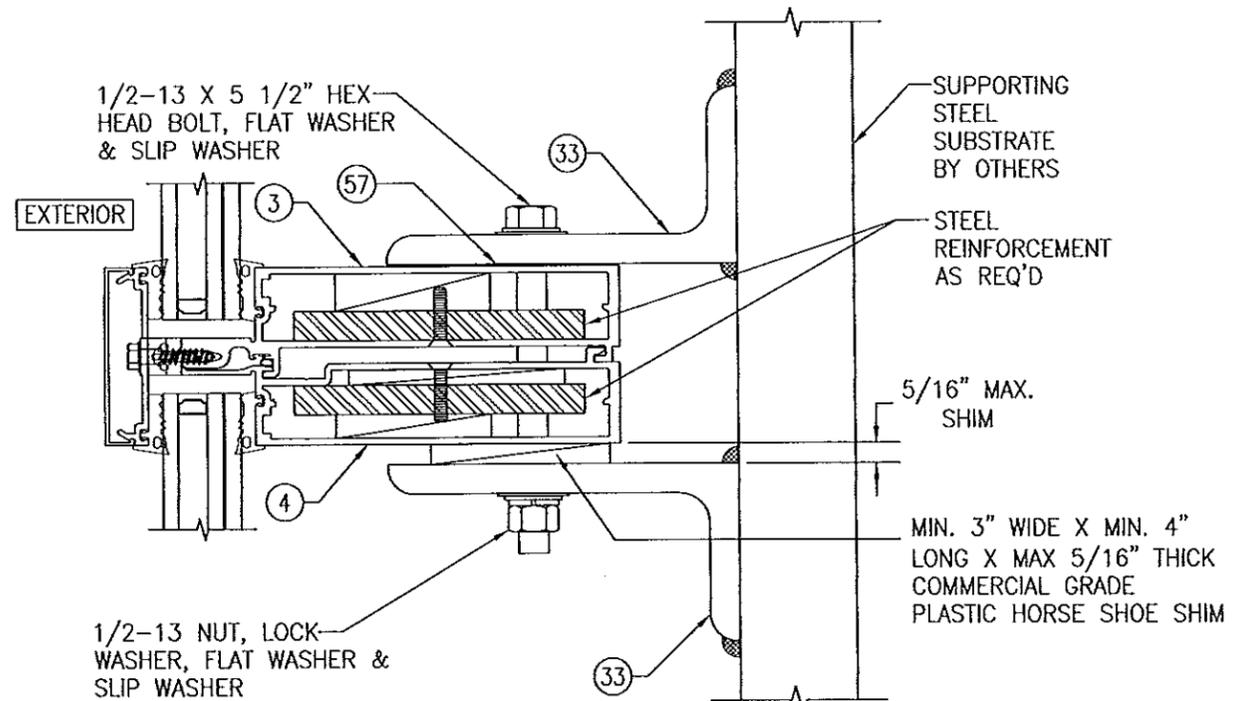
1/2-13 X 1 1/2" HEX HEAD MACHINE BOLT, LOCK WASHER, FLAT WASHER & SLIP WASHER (1/2" DIA. TAPPING HOLES INTO PLATE ITEM #24; 3/4" DIA. HOLES IN FRAME MEMBER)



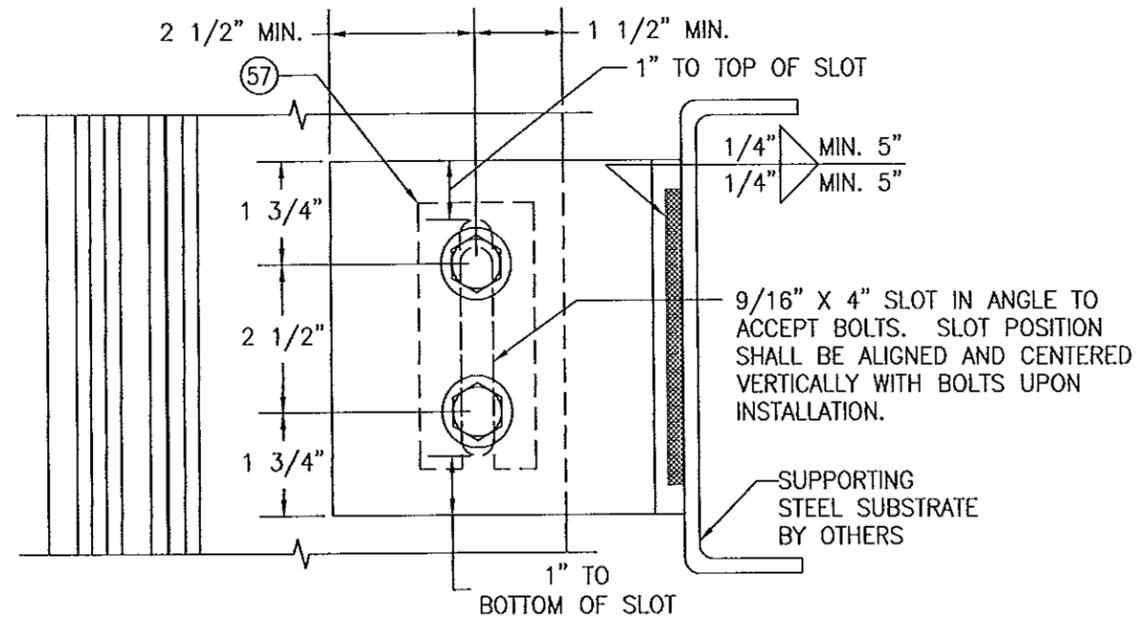
STANDARD WIND LOAD ANCHOR AT SIDE MEMBERS

SCALE: 1/3 FULL
(FOR INFORMATION NOT SHOWN, SEE APPLICABLE SECTIONS E1/11 THROUGH E6/12.)

NOTE: ALL 1/2" BOLTS CONNECTING ANGLES TO MEMBERS SHALL BE GRADE 5 STEEL OR 300 SERIES STAINLESS STEEL.



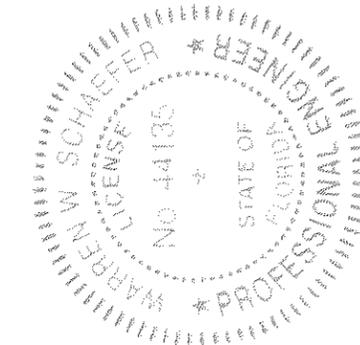
1/2-13 NUT, LOCK WASHER, FLAT WASHER & SLIP WASHER



STANDARD WIND LOAD ANCHOR AT INTERMEDIATE MEMBERS

SCALE: 1/3 FULL
(FOR INFORMATION NOT SHOWN, SEE APPLICABLE SECTIONS F1/13 THROUGH F3/13.)

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Date 08/08/2013
NO. 13-522.13
Miami Code Product Control

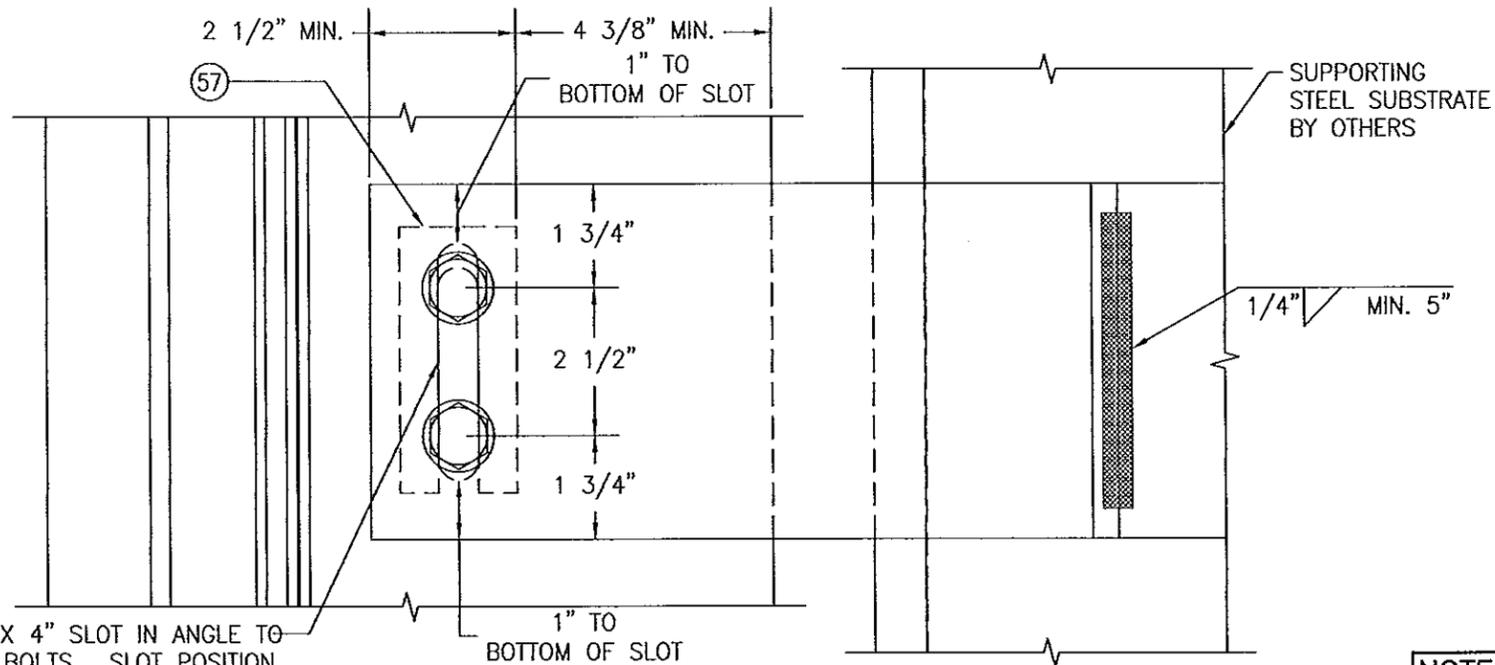
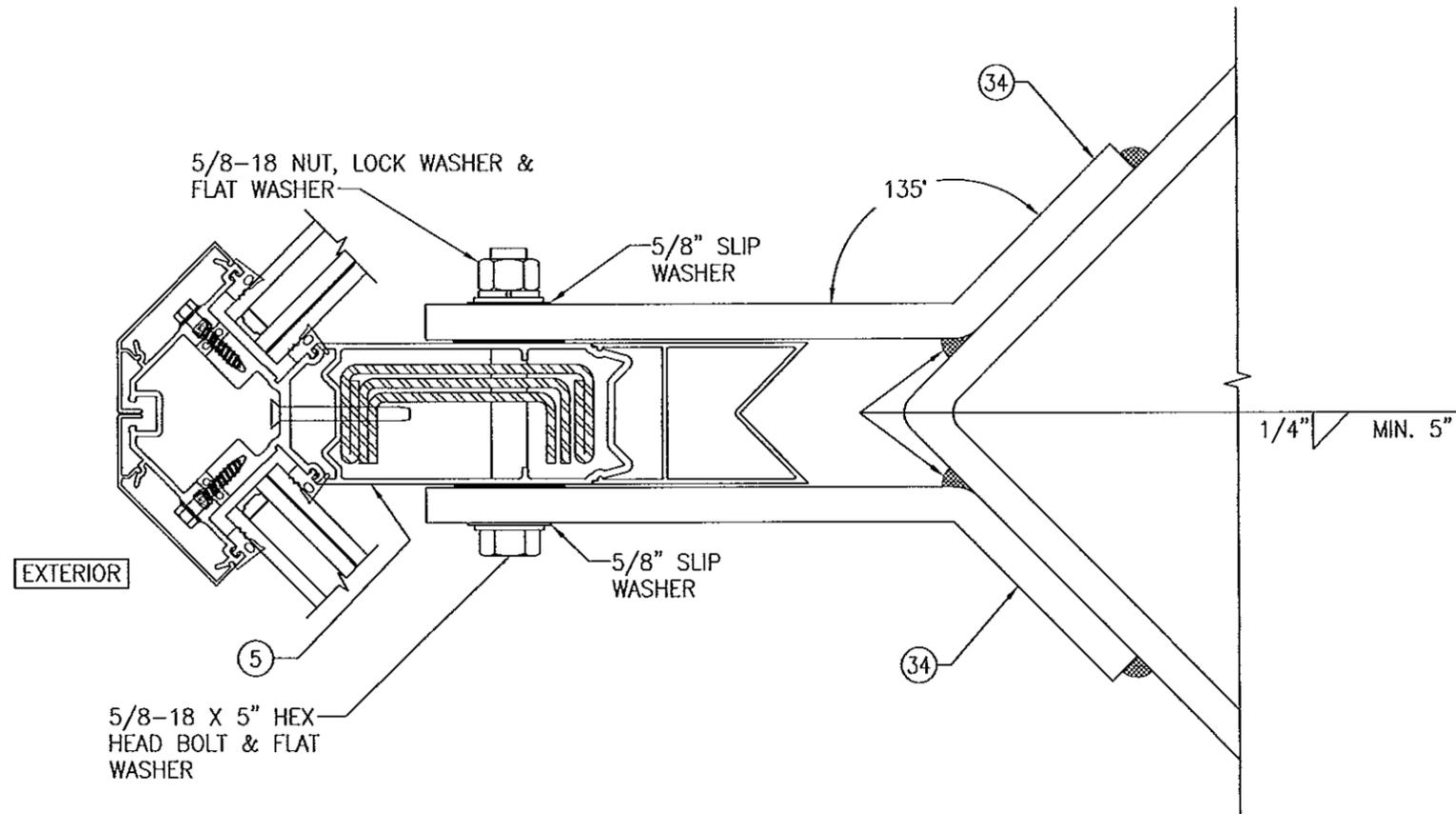


DRAWN BY:	CHECKED BY:
W.R.M.	W.W.S.
PLOT:	DATE:
1-3	01/15/13
DATE	
BY	
REVISION DESCRIPTION	
NO.	

DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL
MANUFACTURER: KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS: W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION: APR 02 2013
WARREN W. SCHAEFFER, P.E.
P.E. NO. 44135
DRAWING NO. 1848
SHEET NO. 5 OF 21



11/16" X 4" SLOT IN ANGLE TO ACCEPT BOLTS. SLOT POSITION SHALL BE ALIGNED AND CENTERED VERTICALLY WITH BOLTS UPON INSTALLATION.

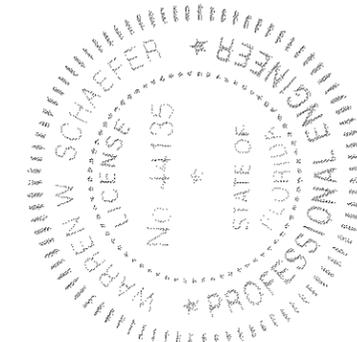
CORNER WIND LOAD ANCHOR

SCALE: 1/3 FULL

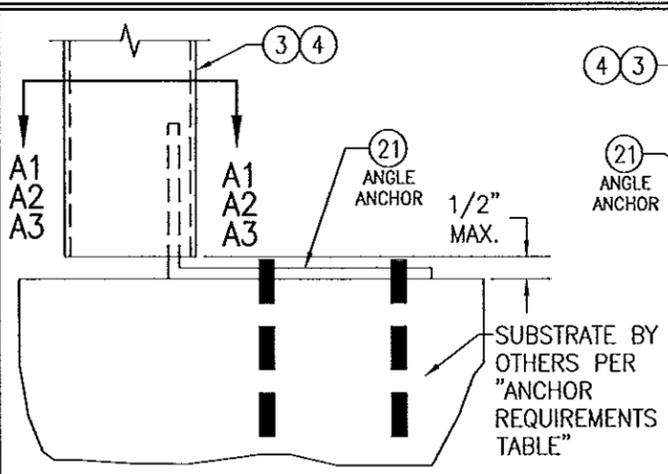
(FOR INFORMATION NOT SHOWN, SEE APPLICABLE SECTION G/13)

Approved as complying with the Florida Building Code
 Date: 08/08/2013
 NOA#: 13-0522.13
 Miami Code Product Control
 By: [Signature]

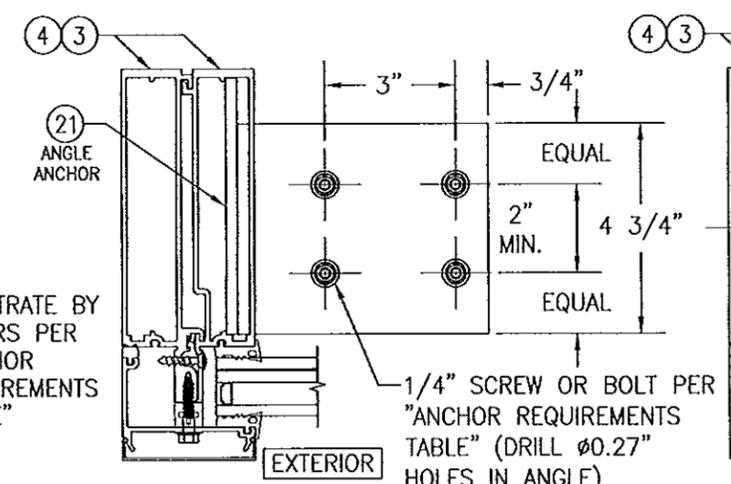
NOTE: ALL 5/8" BOLTS CONNECTING BENT PLATES TO CORNER MEMBER SHALL BE GRADE 5 STEEL OR 300 SERIES STAINLESS STEEL.



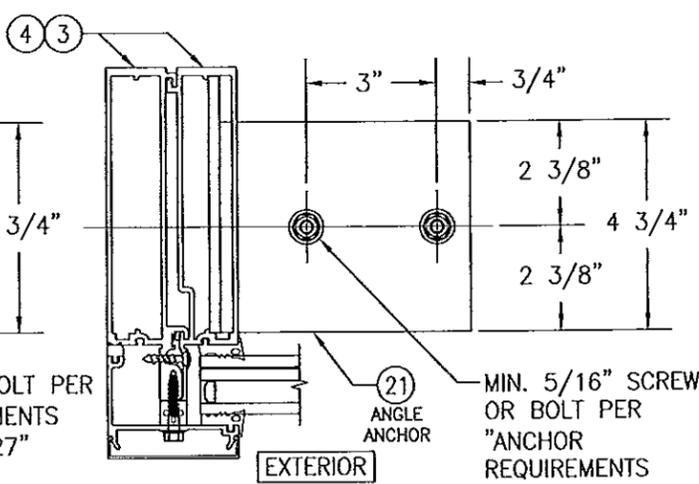
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-3		DATE: 01/15/13	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION APR 02 2013	WARREN W. SCHAEFER, P.E. P.E. NO. 44135		
DRAWING NO. 1848	REV.		
SHEET NO. 6	OF 21		



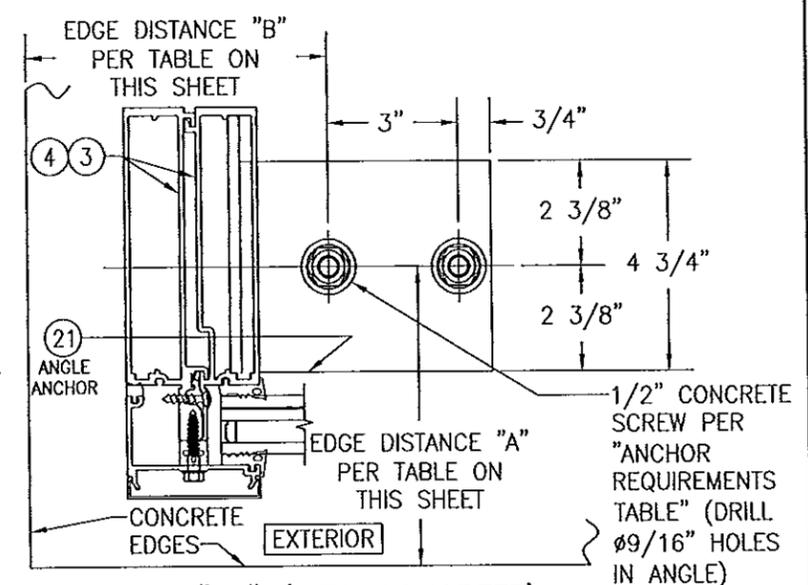
SIDE MEMBER ANCHOR TYPE "A"
SCALE: 1/4 FULL



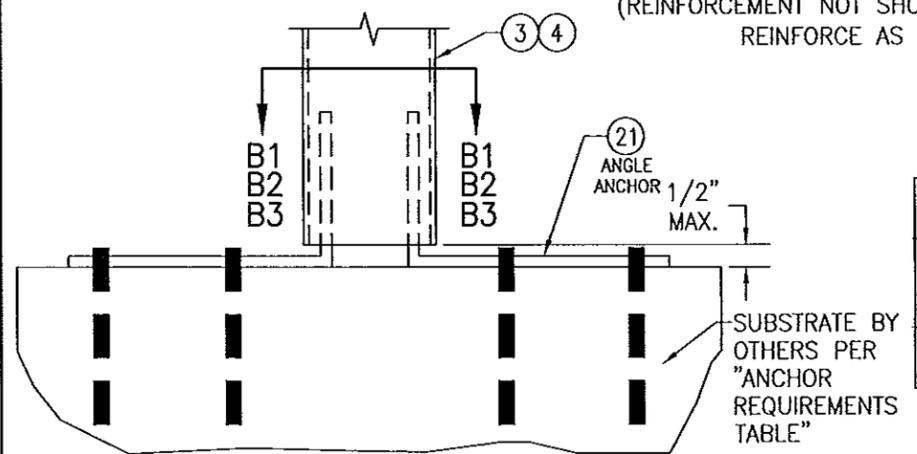
SECTION "A1" (INTO WOOD, CONCRETE, STEEL, METAL STUD OR ALUMINUM)
SCALE: 1/4 FULL
(REINFORCEMENT NOT SHOWN FOR CLARITY, REINFORCE AS REQ'D)



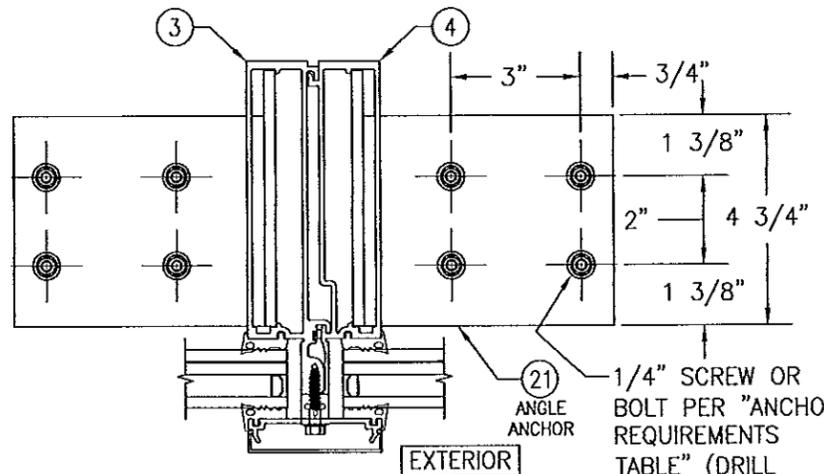
SECTION "A2" (INTO STEEL)
SCALE: 1/4 FULL



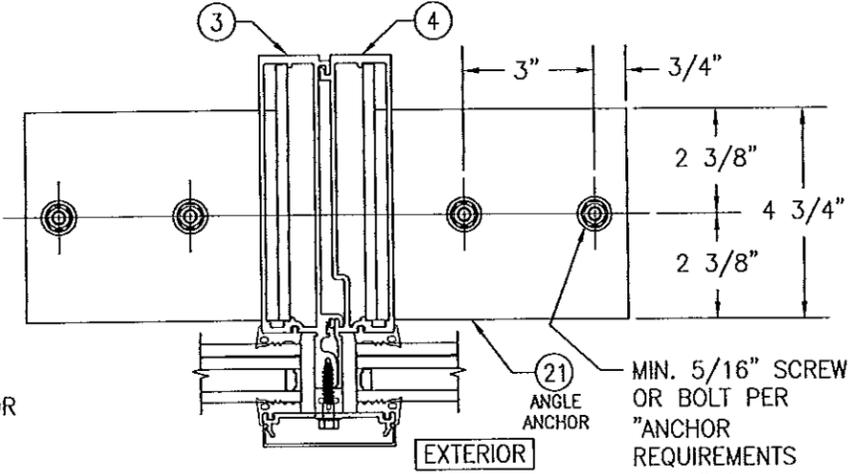
SECTION "A3" (INTO CONCRETE)
SCALE: 1/4 FULL



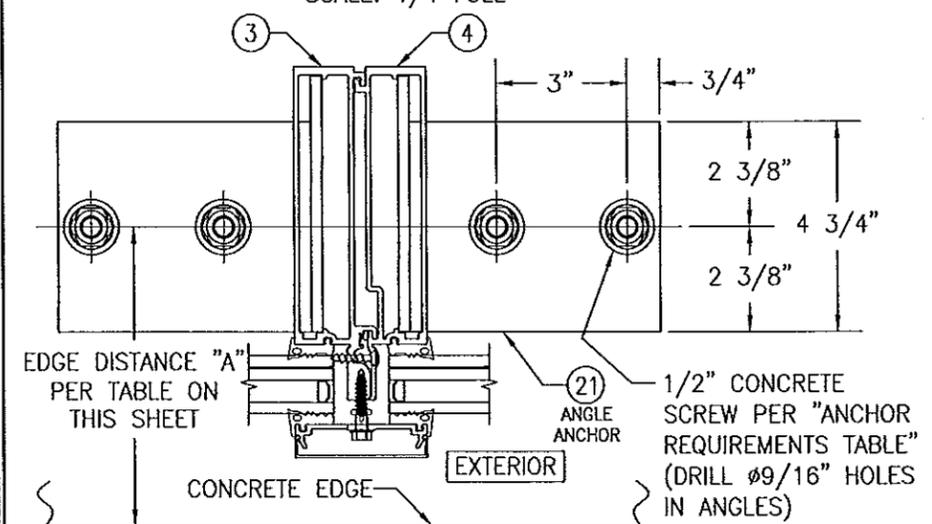
INTERMEDIATE MEMBER ANCHOR TYPE "B"
SCALE: 1/4 FULL



SECTION "B1" (INTO WOOD, METAL STUD & ALUMINUM)
SCALE: 1/4 FULL



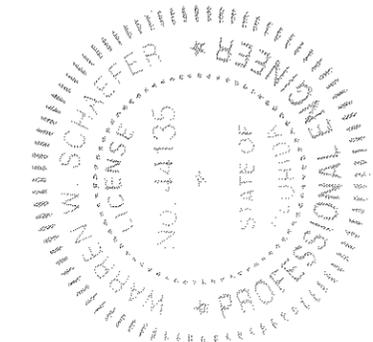
SECTION "B2" (INTO STEEL)
SCALE: 1/4 FULL



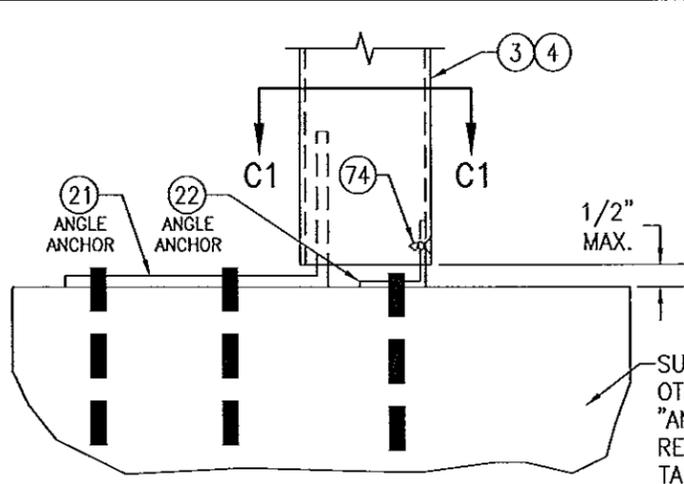
SECTION "B3" (INTO CONCRETE)
SCALE: 1/4 FULL

CONCRETE EDGE DISTANCE & THICKNESS REQUIREMENTS			
SECTION	MINIMUM SLAB THICKNESS	MINIMUM EDGE DIST. "A"	MINIMUM EDGE DIST. "B"
"A3"	6"	5"	4 1/2"
"B3"	7 1/2"	5"	N/A
	6"	6"	N/A

Approved as complying with the Florida Building Code
Date: 08/08/2013
NOA# 13-0522-13
Miami Dade Product Control
13y



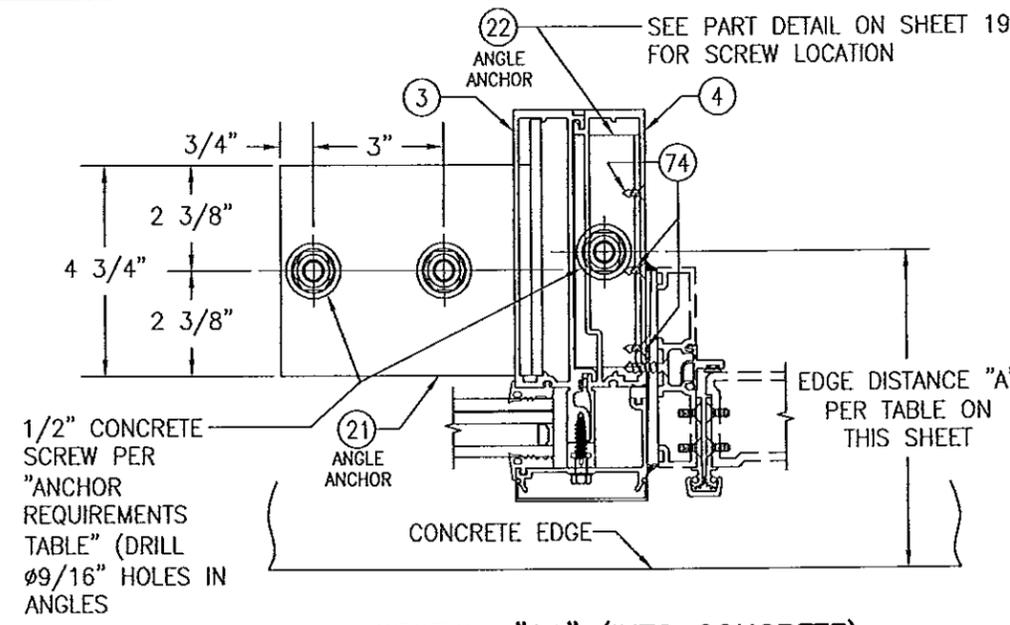
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=4	DATE: 01/15/13
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL PHONE: 561-744-3424	
CERTIFICATION APR 02 2013	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1848	REV.
SHEET NO. 7 OF 21	



INTERMEDIATE MEMBER ANCHOR TYPE "C"
(APPLICABLE AT BASE OF DOOR OPENINGS)

SCALE: 1/4 FULL

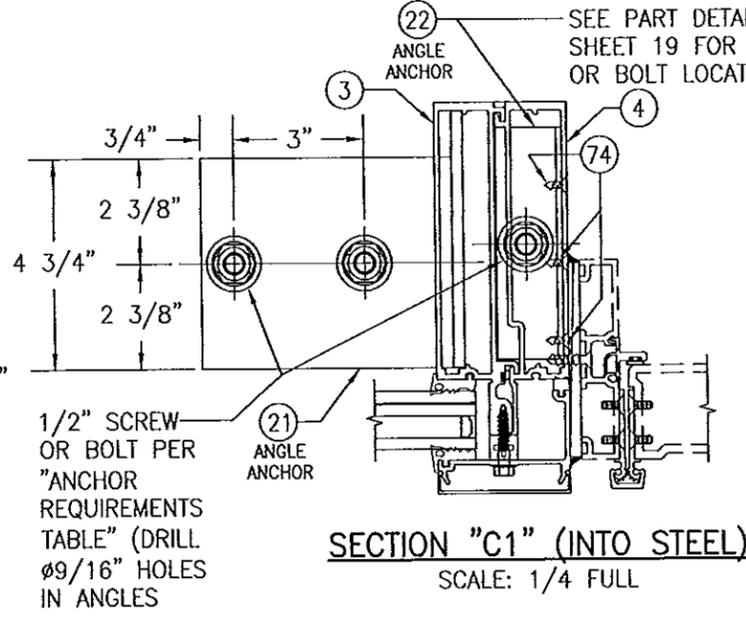
SUBSTRATE BY OTHERS PER "ANCHOR REQUIREMENTS TABLE"



SECTION "C1" (INTO CONCRETE)

SCALE: 1/4 FULL

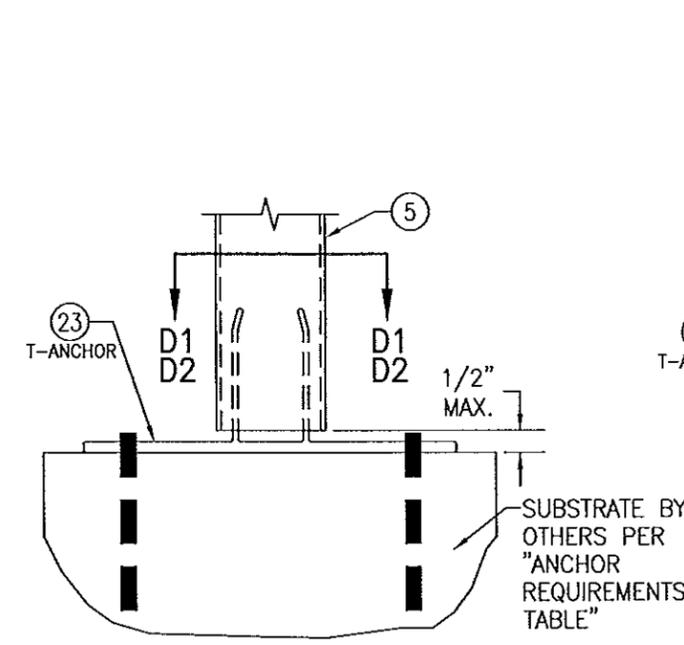
EDGE DISTANCE "A" PER TABLE ON THIS SHEET



SECTION "C1" (INTO STEEL)

SCALE: 1/4 FULL

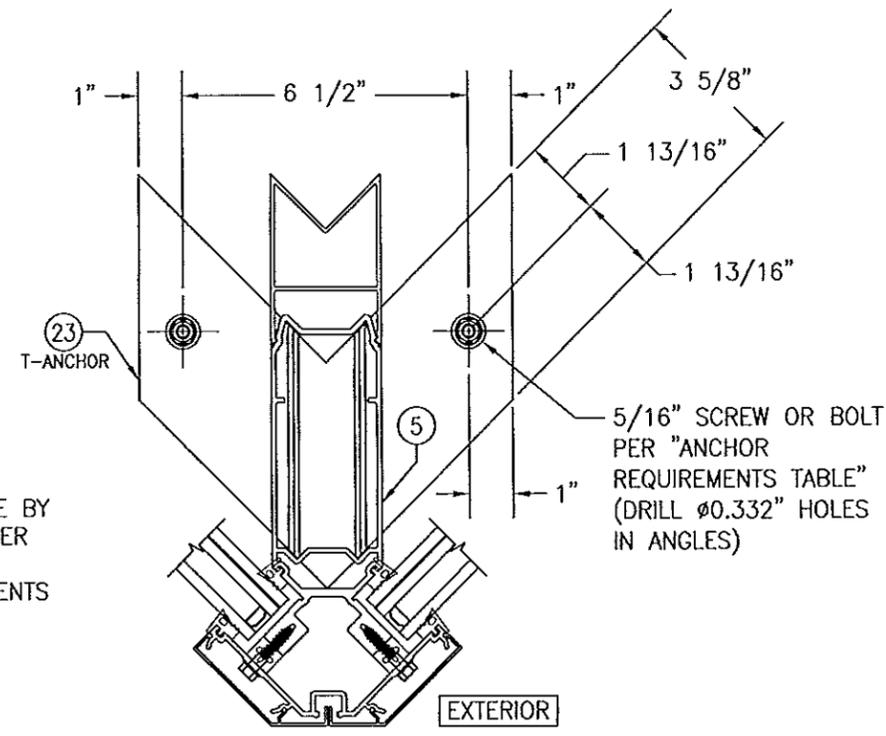
SEE PART DETAIL ON SHEET 19 FOR SCREW OR BOLT LOCATION



CORNER MEMBER ANCHOR TYPE "D"

SCALE: 1/4 FULL

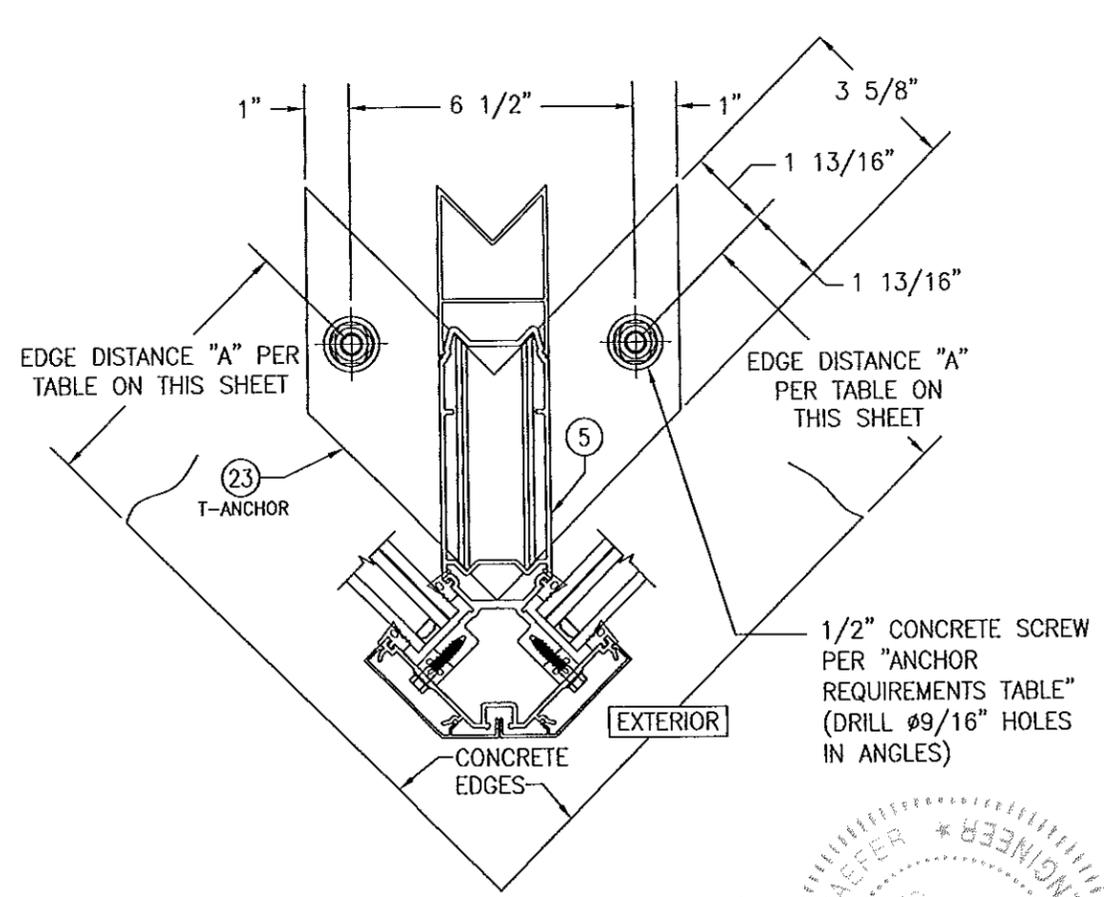
SUBSTRATE BY OTHERS PER "ANCHOR REQUIREMENTS TABLE"



SECTION "D1" (INTO STEEL)

SCALE: 1/4 FULL

EXTERIOR



SECTION "D2" (INTO CONCRETE)

SCALE: 1/4 FULL

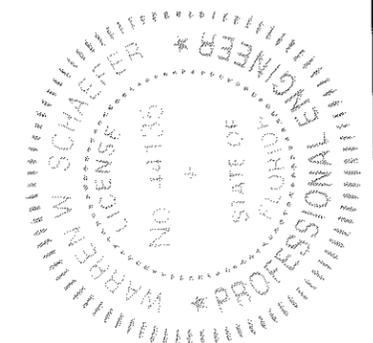
EDGE DISTANCE "A" PER TABLE ON THIS SHEET

EDGE DISTANCE "A" PER TABLE ON THIS SHEET

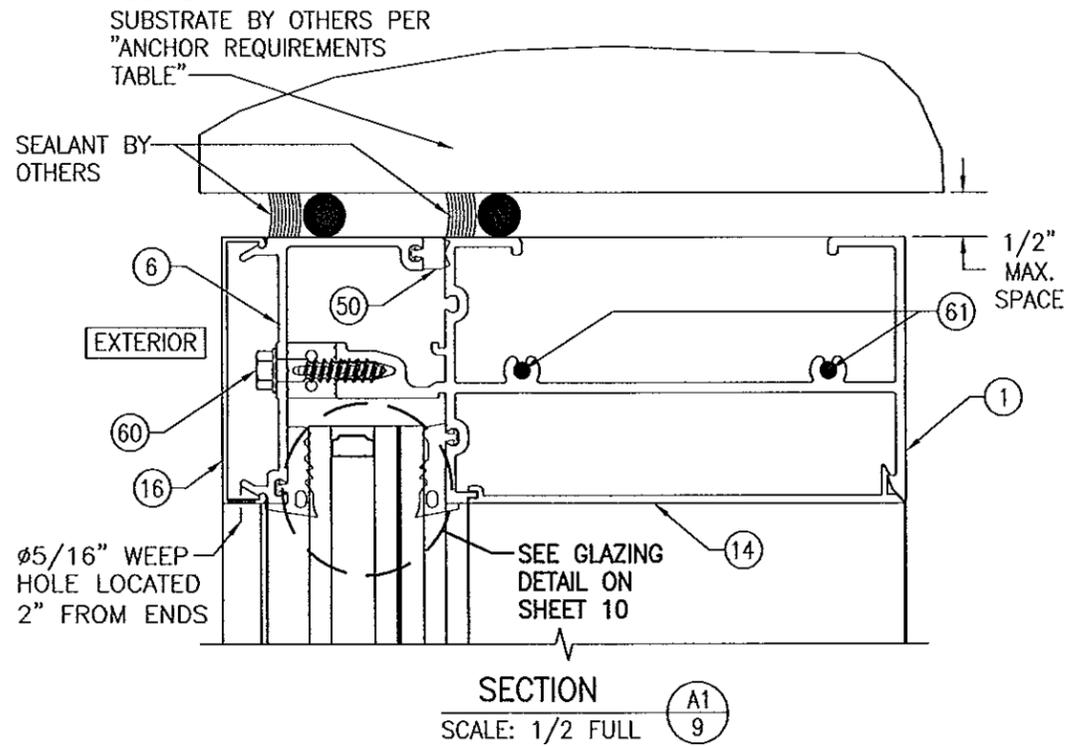
1/2" CONCRETE SCREW PER "ANCHOR REQUIREMENTS TABLE" (DRILL 9/16" HOLES IN ANGLES)

CONCRETE EDGE DISTANCE & THICKNESS REQUIREMENTS		
SECTION	MINIMUM SLAB THICKNESS	MINIMUM EDGE DIST. "A"
"C1"	7 1/2"	5 3/4"
	6"	6 3/4"
"D2"	6"	5"

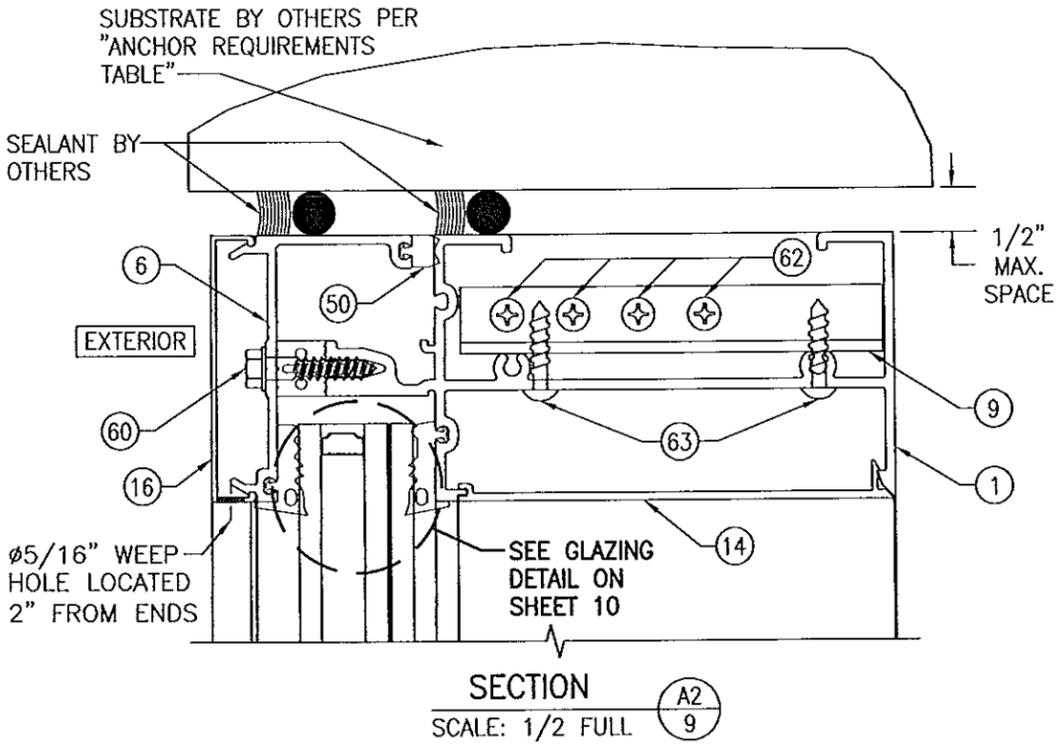
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Date 08/08/2013
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Miami Code Product Control
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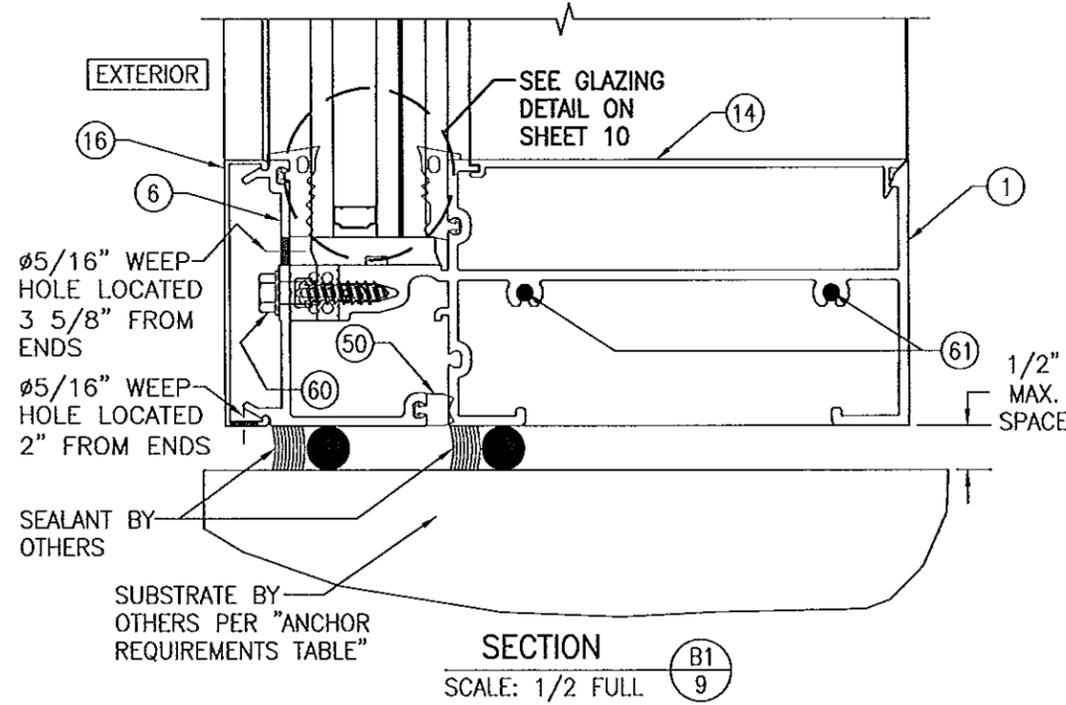
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=4	DATE: 01/15/13
NO.	REVISION DESCRIPTION
BY	DATE
DRAWING TITLE 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION APR 02 2013	
DRAWING NO. 1848	
SHEET NO. 8 OF 21	
WARREN W. SCHAEFER, P.E. P.E. NO. 44130	



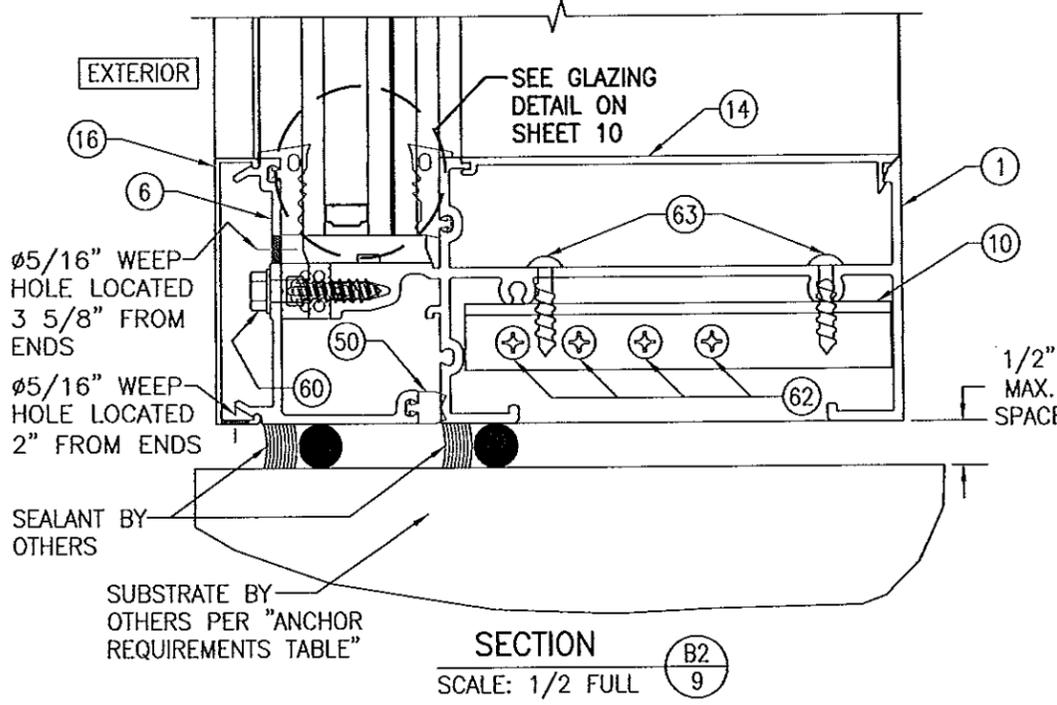
SECTION A1
SCALE: 1/2 FULL



SECTION A2
SCALE: 1/2 FULL

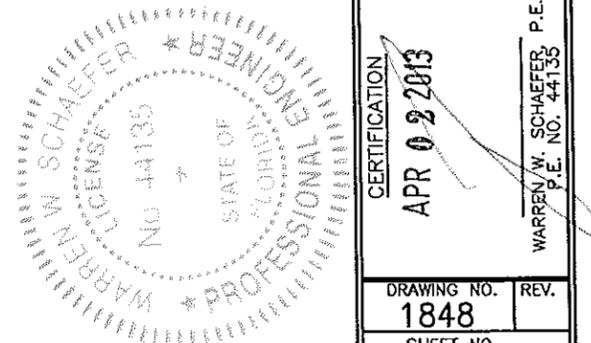


SECTION B1
SCALE: 1/2 FULL



SECTION B2
SCALE: 1/2 FULL

Approved as complying with the
Florida Building Code
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NOA# 13-0522.13
Miami Code Product Control
By *[Signature]*



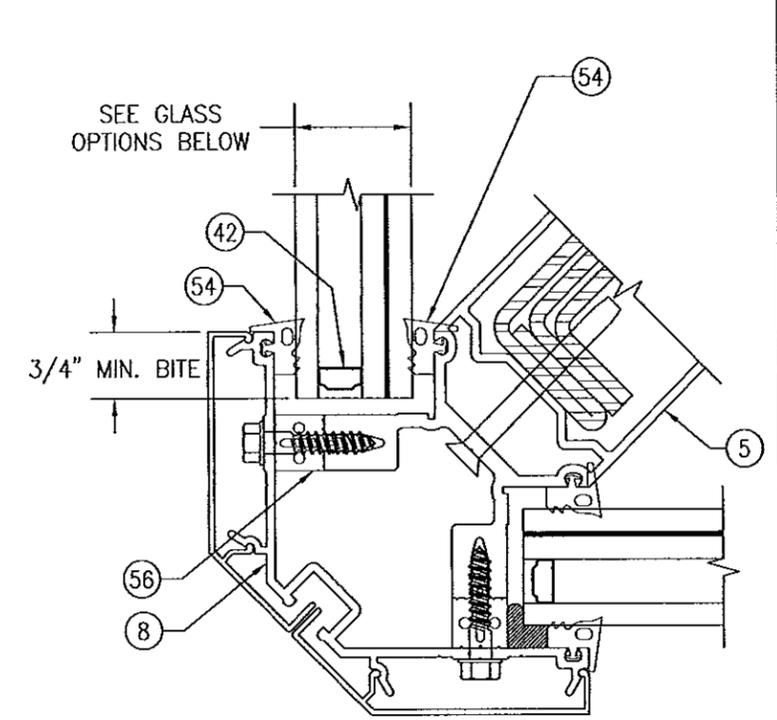
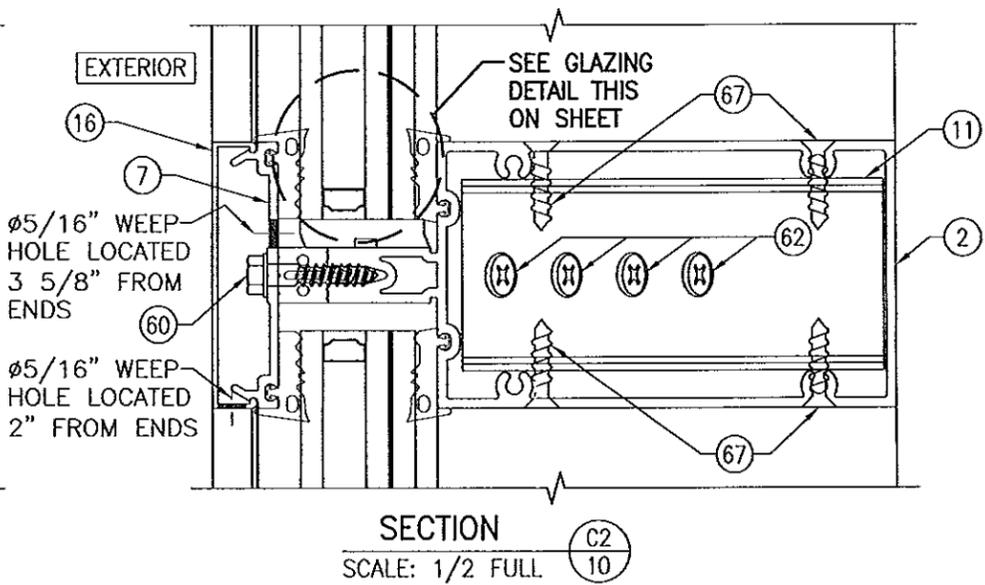
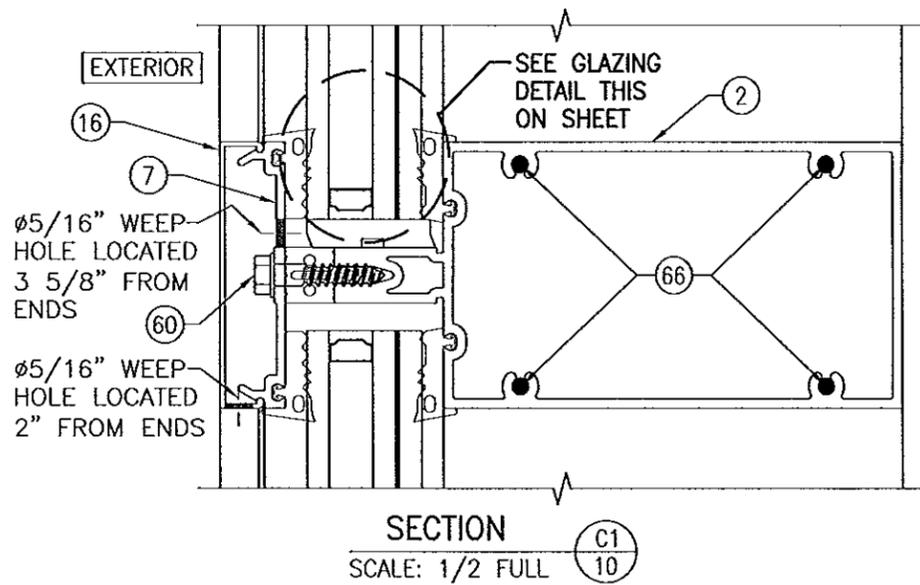
DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1=2	DATE:	01/15/13
NO.		REVISION DESCRIPTION	
BY		DATE	

DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL

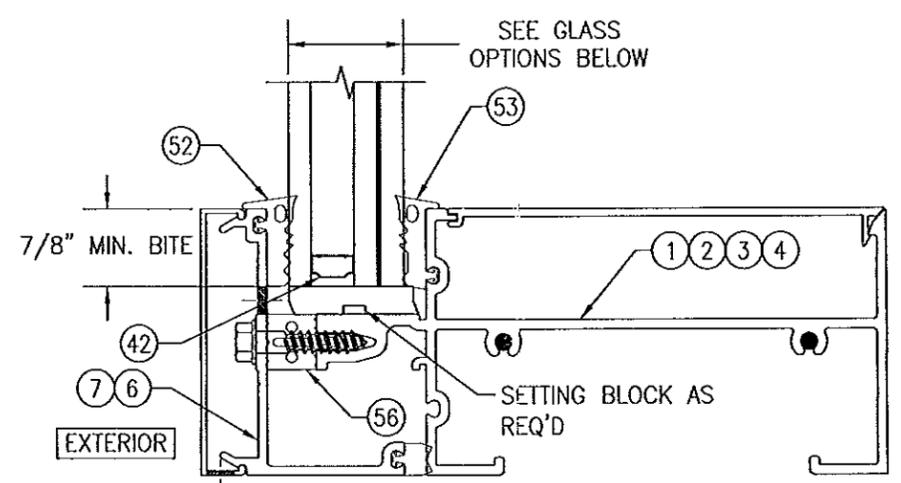
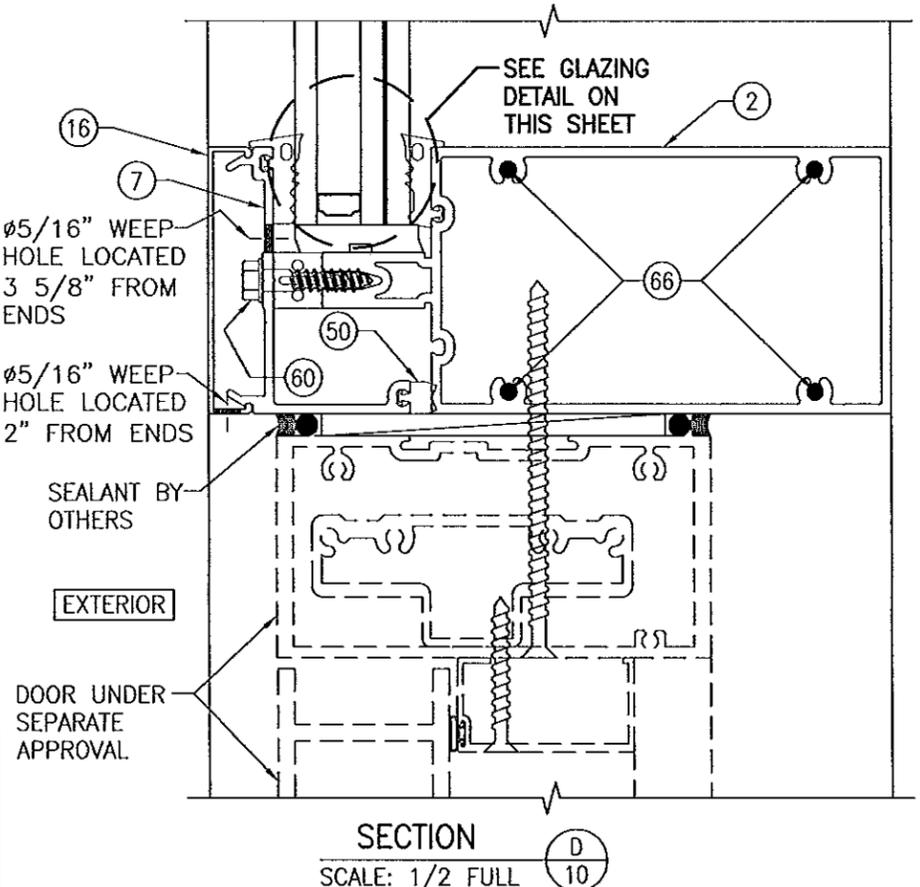
MANUFACTURER: KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH, 33418
PALM BEACH GARDENS, FL
PHONE: 561-744-3424

CERTIFICATION	APR 02 2013
DRAWING NO.	1848
SHEET NO.	9 OF 21

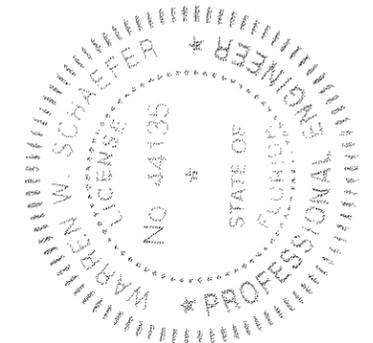


GLASS OPTIONS:
OPTION 1: 1 5/16" THICK I.G LAMINATED GLASS (1/4" TEMP. EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./0.060" EASTMAN CHEMICAL CO. SAFLEX/1/4" HT. ST. INTERIOR)
OPTION 2: 1 5/16" THICK I.G LAMINATED GLASS (1/4" TEMP. EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./0.060" DUPONT PVB/1/4" HT. ST. INTERIOR)

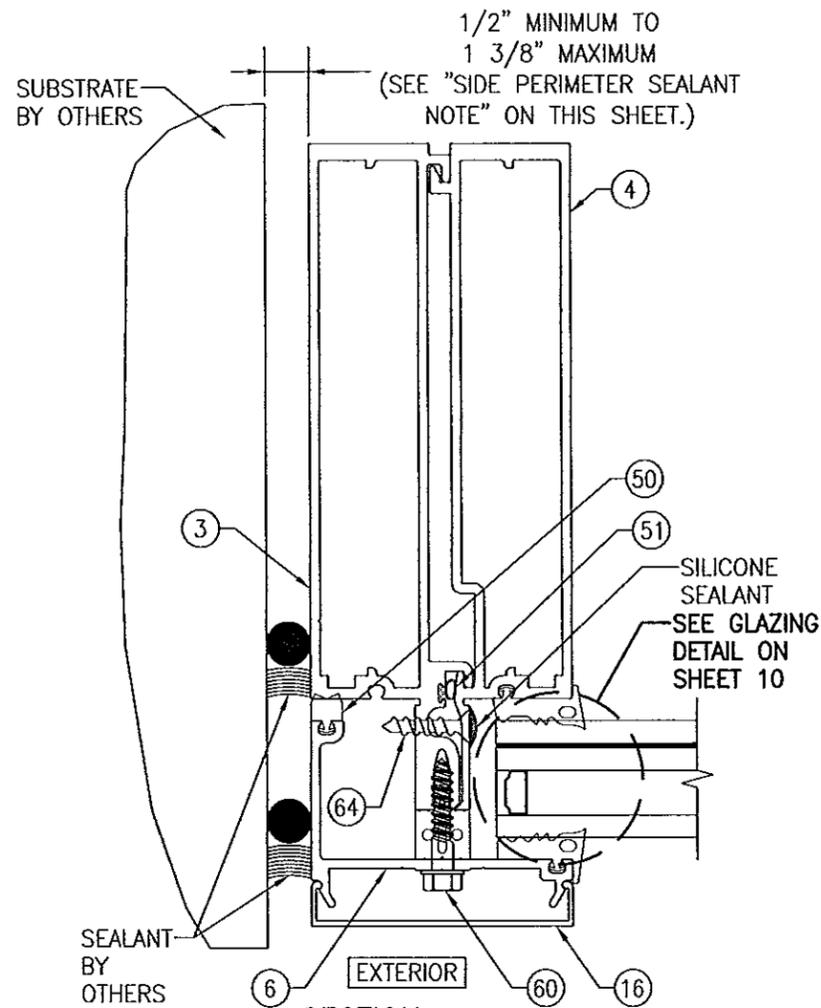


GLASS OPTIONS:
OPTION 1: 1 5/16" THICK I.G LAMINATED GLASS (1/4" TEMP. EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./0.060" EASTMAN CHEMICAL CO. SAFLEX/1/4" HT. ST. INTERIOR)
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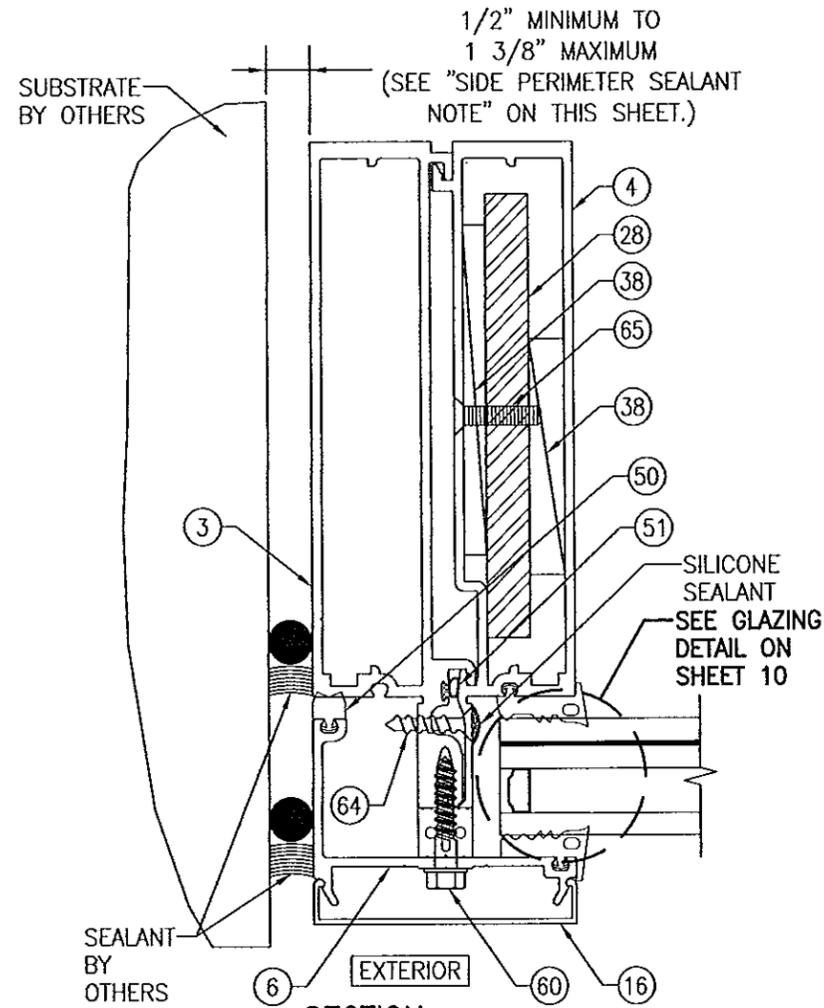
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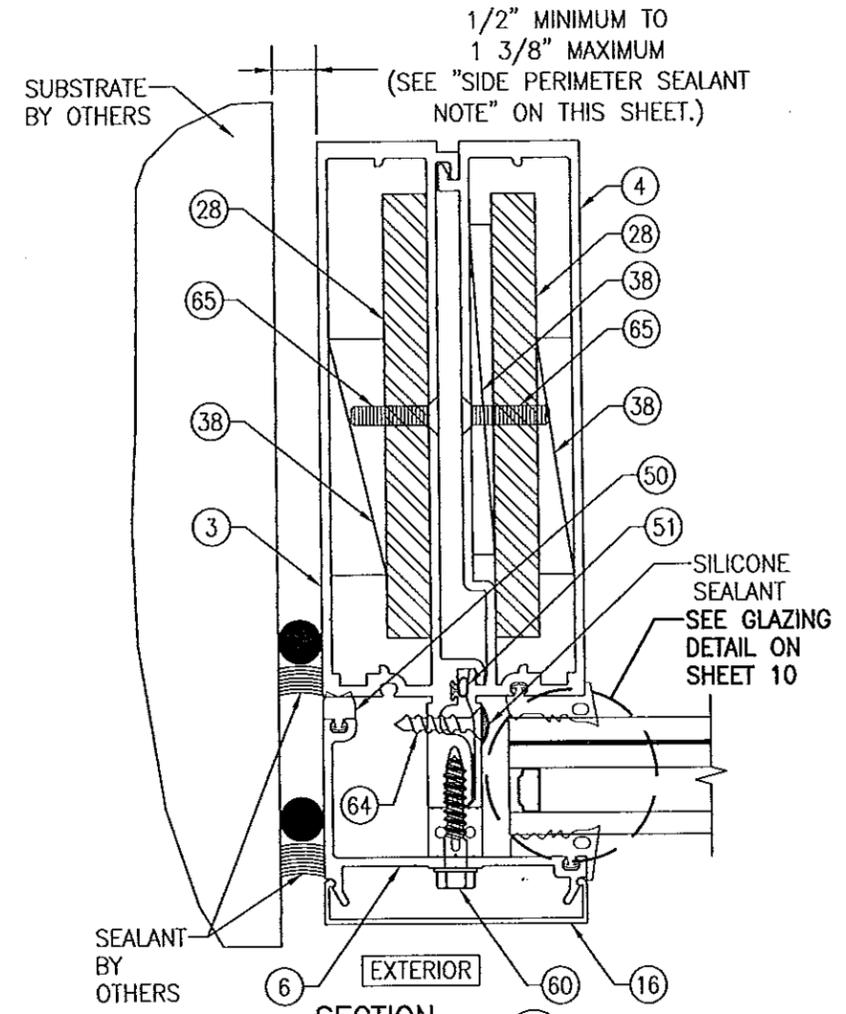
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 01/15/13
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL PHONE: 561-744-3424
CERTIFICATION APR 02 2013	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1848	REV.
SHEET NO. 10	OF 21



SECTION E1
SCALE: 1/2 FULL
SIDE VERTICAL MEMBER WITH REINFORCEMENT "R0" (NO REINFORCEMENT)
 $I = 35.410 \text{ IN}^4$
 $S = 8.423 \text{ IN}^3$



SECTION E2
SCALE: 1/2 FULL
SIDE VERTICAL MEMBER WITH REINFORCEMENT "R1"
 $I = 53.631 \text{ IN}^4$
 $S = 11.128 \text{ IN}^3$
(TRANSFORMED SECTION PROPERTIES IN TERMS OF ALUMINUM)
(REINFORCEMENT MAY BE AT EITHER HALF OF VERTICAL MEMBER)

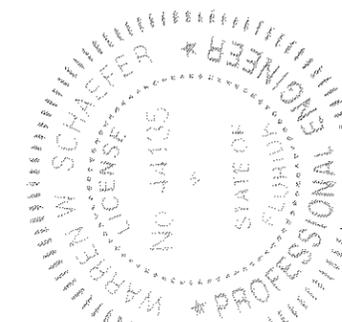


SECTION E3
SCALE: 1/2 FULL
SIDE VERTICAL MEMBER WITH REINFORCEMENT "R2"
 $I = 64.014 \text{ IN}^4$
 $S = 12.960 \text{ IN}^3$
(TRANSFORMED SECTION PROPERTIES IN TERMS OF ALUMINUM)

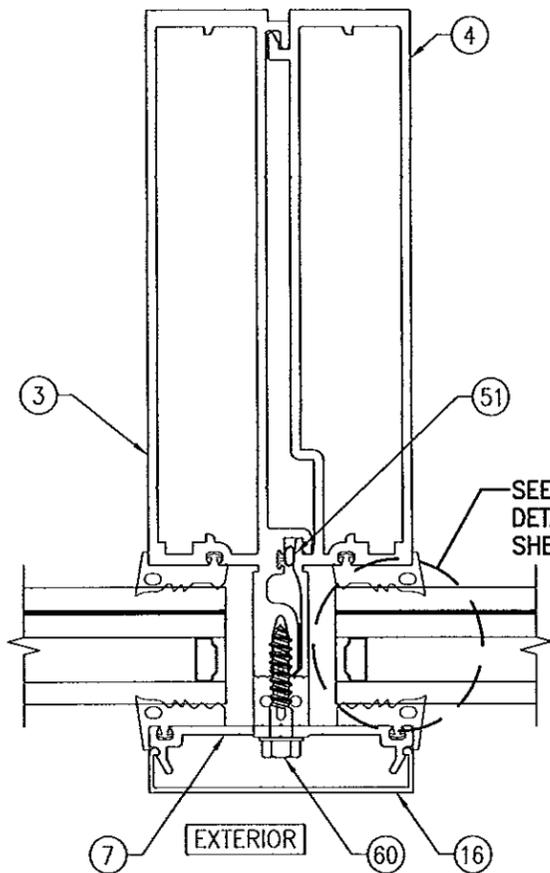
SIDE PERIMETER SEALANT NOTE:

THE MINIMUM & MAXIMUM ALLOWABLE SPACE BETWEEN SIDE FRAME MEMBERS & THE OPENING SUBSTRATE OR FINISHES SHALL BE SPECIFIED BY THE ENGINEER OR ARCHITECT OF RECORD FOR EACH JOB BUT SHALL NOT BE LESS THAN 1/2" NOR GREATER THAN 1 3/8". WHEN CONSIDERING TYPE, DEPTH & JOINT SPAN OF SEALANT, THE ENGINEER/ARCHITECT SHALL TAKE INTO CONSIDERATION THE DEFLECTION OF THE JAMB MEMBER THAT WOULD OCCUR WHILE SUPPORTING THE JOB REQUIRED DESIGN WIND PRESSURE. ALSO TO BE CONSIDERED SHALL BE THE MATERIALS & SURFACES TO WHICH THE SEALANT WILL BE APPLIED.

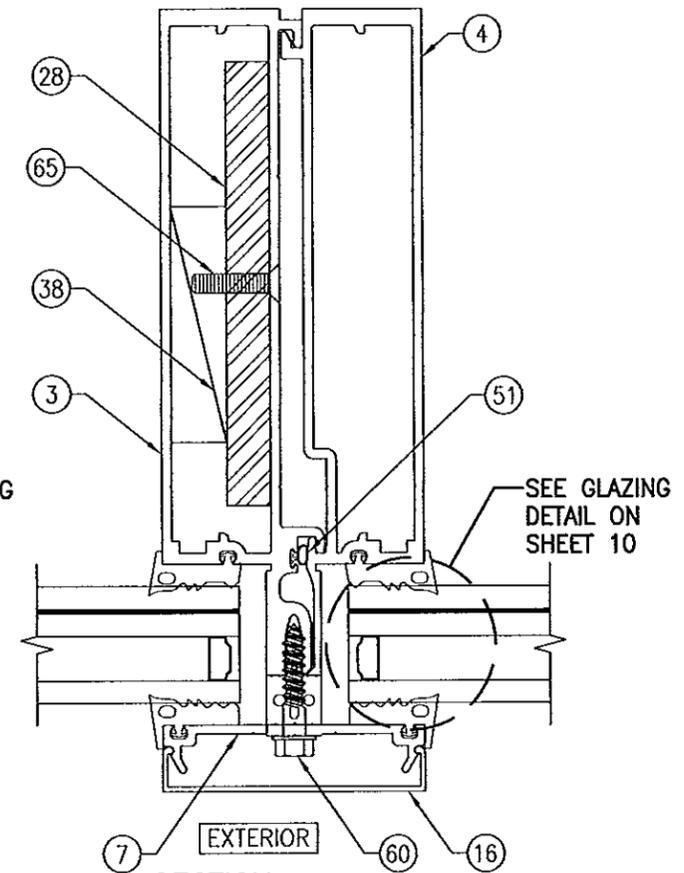
Approved as complying with the Florida Building Code
Date 08/08/2013
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Miami Date Product Control
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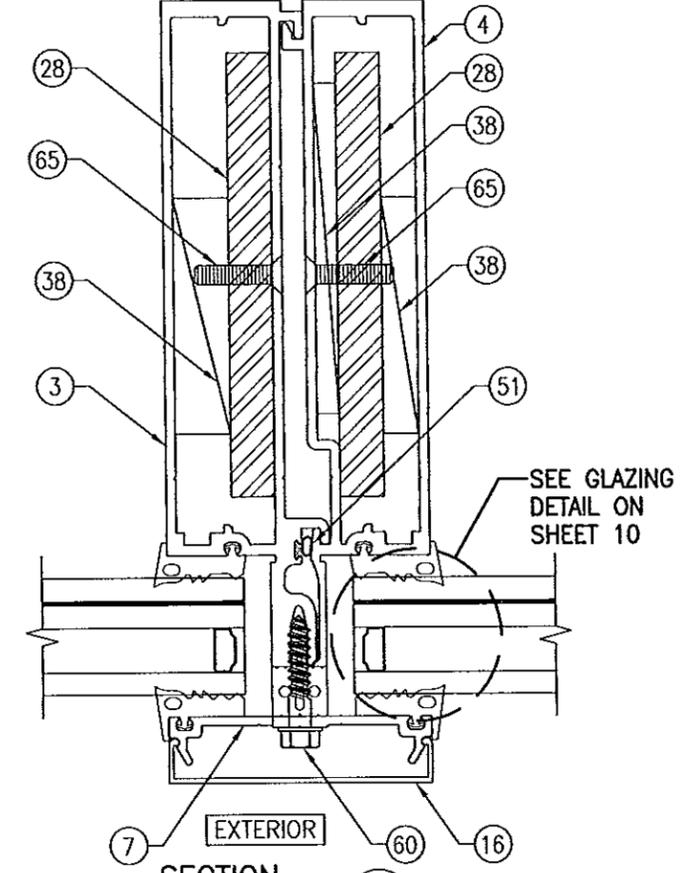
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 01/15/13
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION APR 02 2013	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1848	REV.
SHEET NO. 11 OF 21	



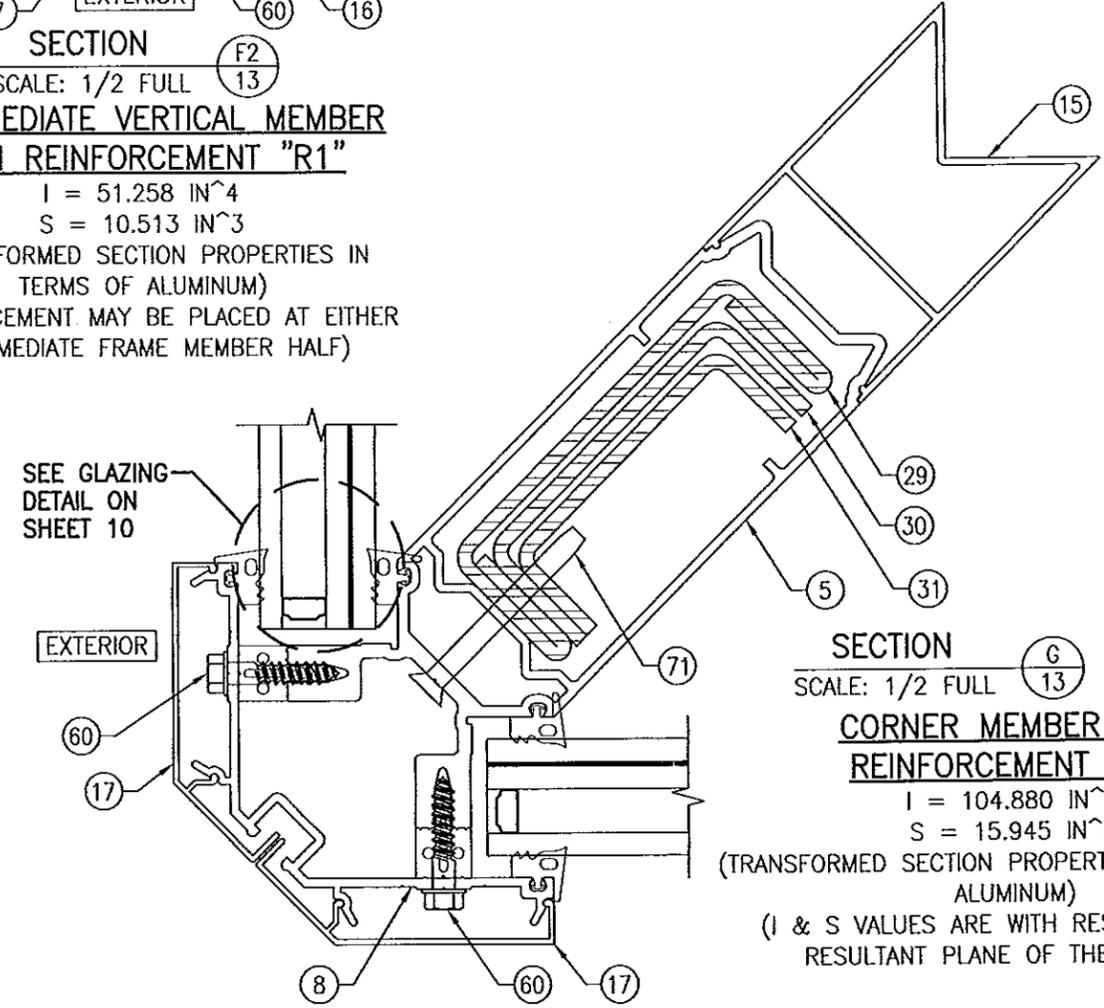
SECTION F1
SCALE: 1/2 FULL 13
INTERMEDIATE VERTICAL MEMBER WITH REINFORCEMENT "R0" (NO REINFORCEMENT)
 $I = 33.770 \text{ IN}^4$
 $S = 7.820 \text{ IN}^3$



SECTION F2
SCALE: 1/2 FULL 13
INTERMEDIATE VERTICAL MEMBER WITH REINFORCEMENT "R1"
 $I = 51.258 \text{ IN}^4$
 $S = 10.513 \text{ IN}^3$
(TRANSFORMED SECTION PROPERTIES IN TERMS OF ALUMINUM)
(REINFORCEMENT MAY BE PLACED AT EITHER INTERMEDIATE FRAME MEMBER HALF)

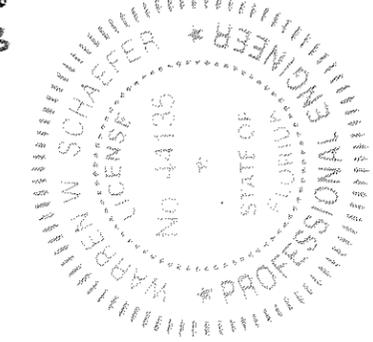


SECTION F3
SCALE: 1/2 FULL 13
INTERMEDIATE VERTICAL MEMBER WITH REINFORCEMENT "R2"
 $I = 61.484 \text{ IN}^4$
 $S = 12.343 \text{ IN}^3$
(TRANSFORMED SECTION PROPERTIES IN TERMS OF ALUMINUM)

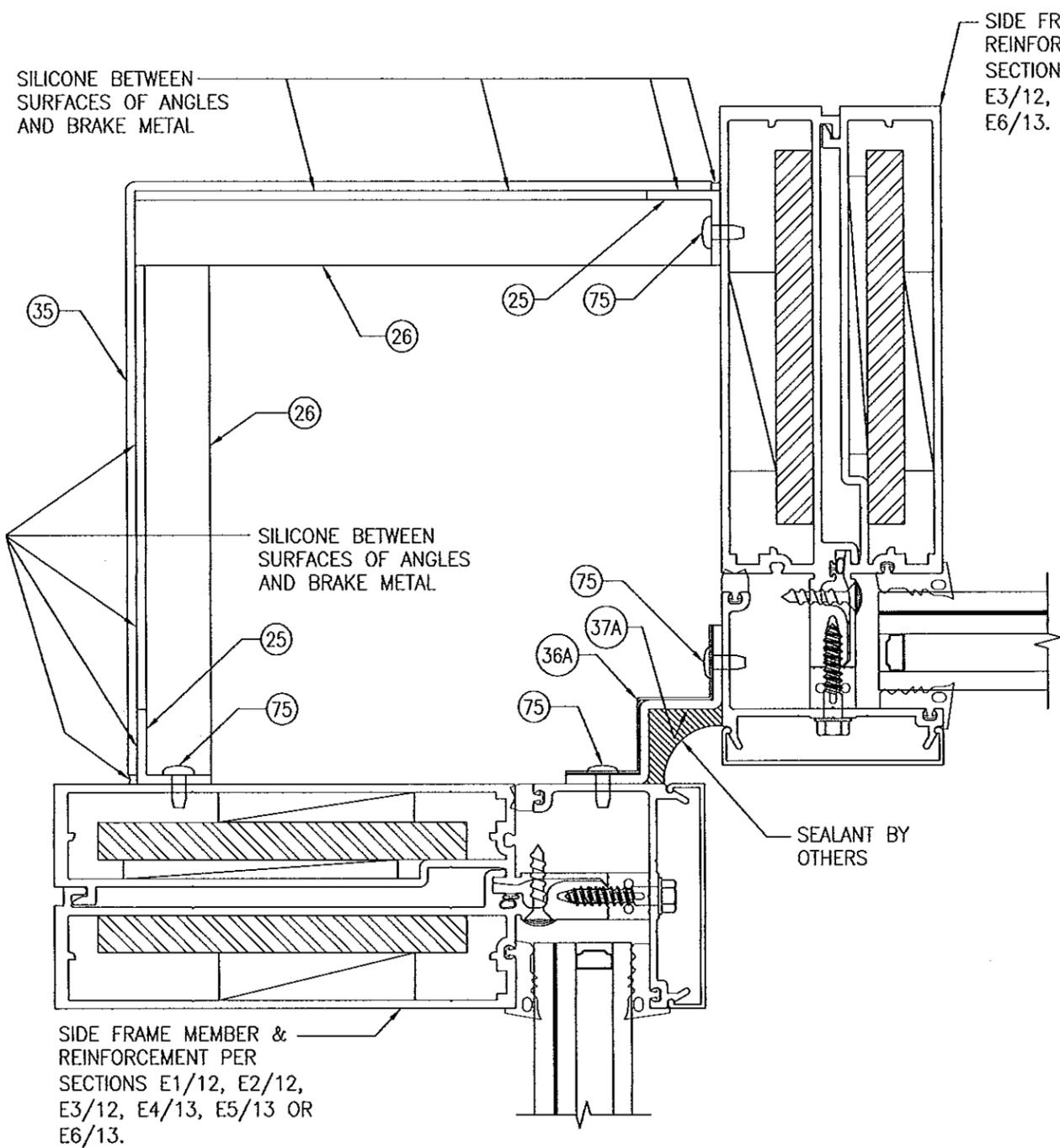


SECTION G
SCALE: 1/2 FULL 13
CORNER MEMBER WITH REINFORCEMENT "R3"
 $I = 104.880 \text{ IN}^4$
 $S = 15.945 \text{ IN}^3$
(TRANSFORMED SECTION PROPERTIES IN TERMS OF ALUMINUM)
(I & S VALUES ARE WITH RESPECT TO THE RESULTANT PLANE OF THE MEMBER)

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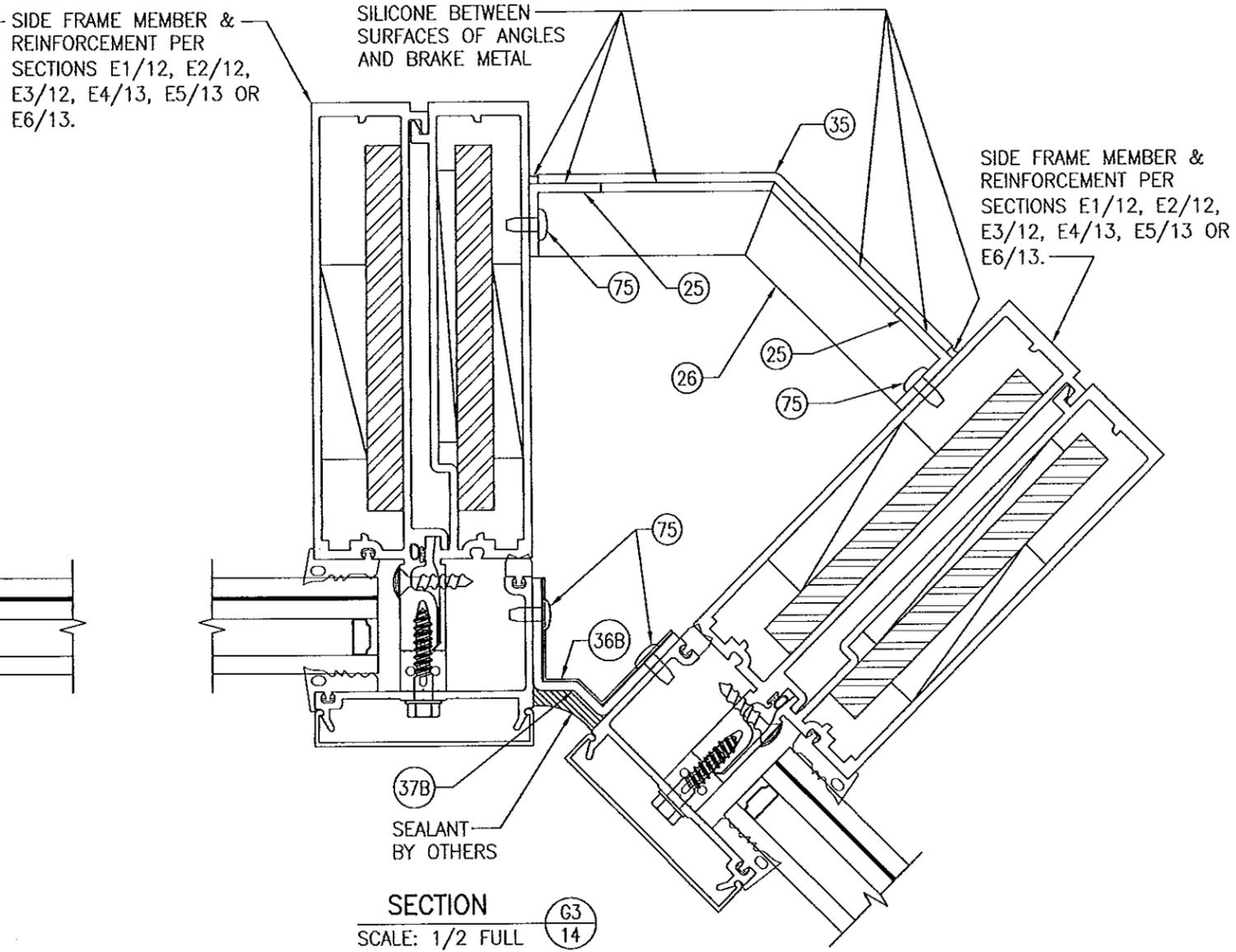


DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 01/15/13	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: APR 02 2013		DRAWING NO. 1848	
SHEET NO. 13		REV. OF 21	



SECTION G2
SCALE: 1/2 FULL 14

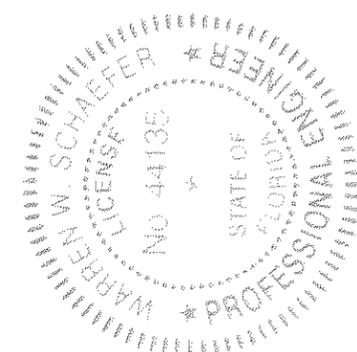
90 DEG. INTERIOR CORNER MEMBER WITH REINFORCEMENT "R0", "R1" OR "R3"



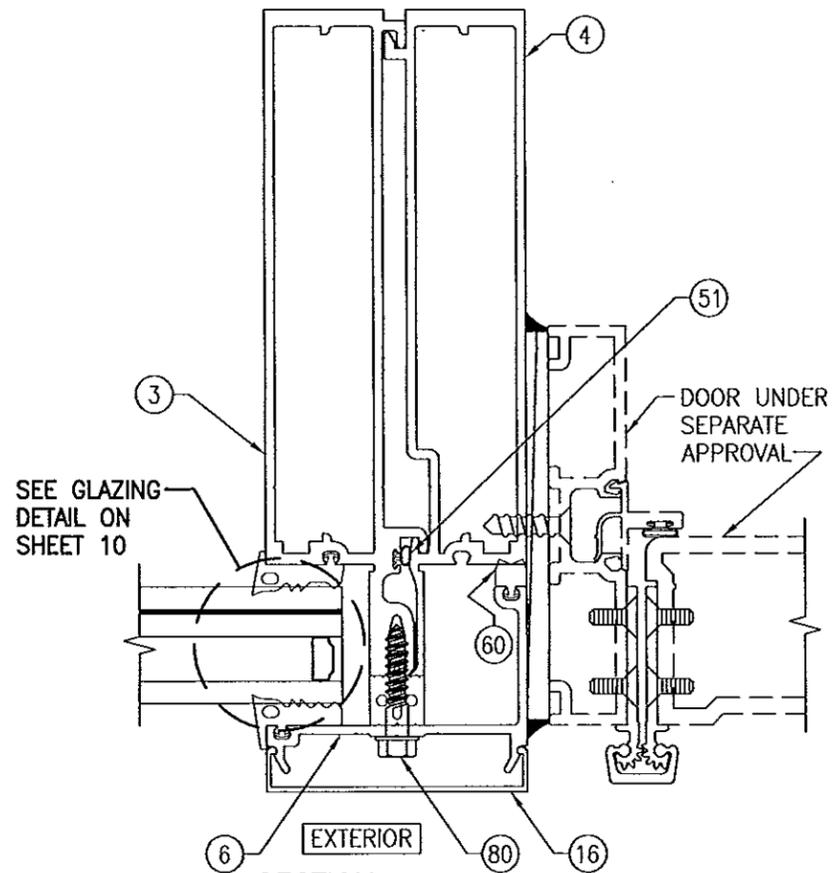
SECTION G3
SCALE: 1/2 FULL 14

135 DEG. INTERIOR CORNER MEMBER WITH REINFORCEMENT "R0", "R1" OR "R3"

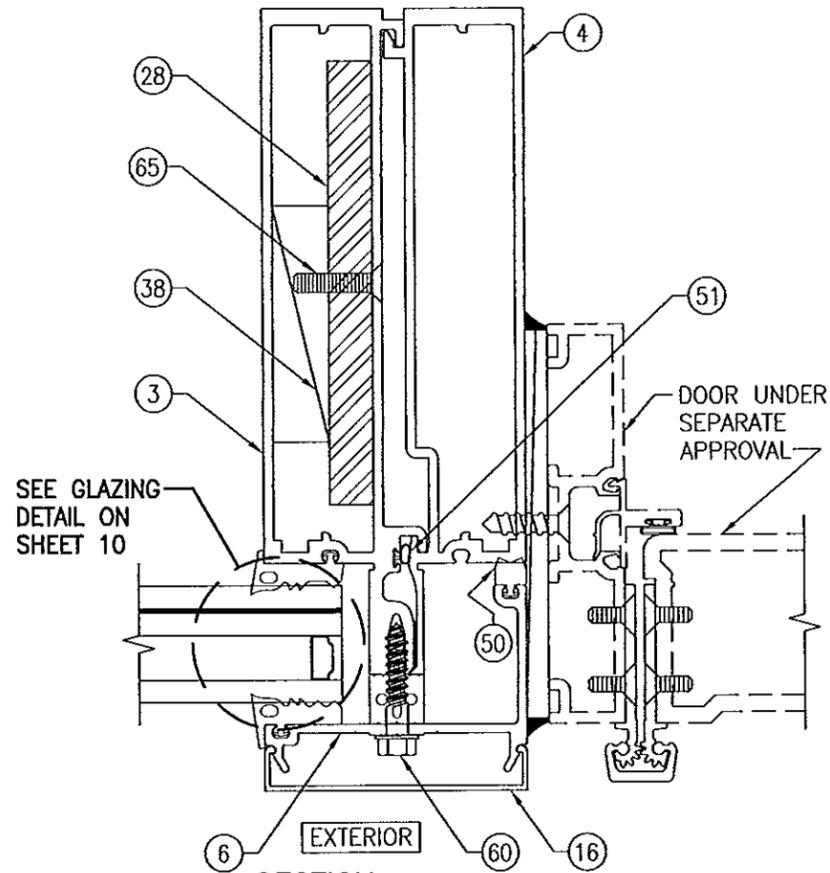
Approved as complying with the Florida Building Code
Date 03/08/2013
NOA# 13-0522.13
Miami Dade Product Control
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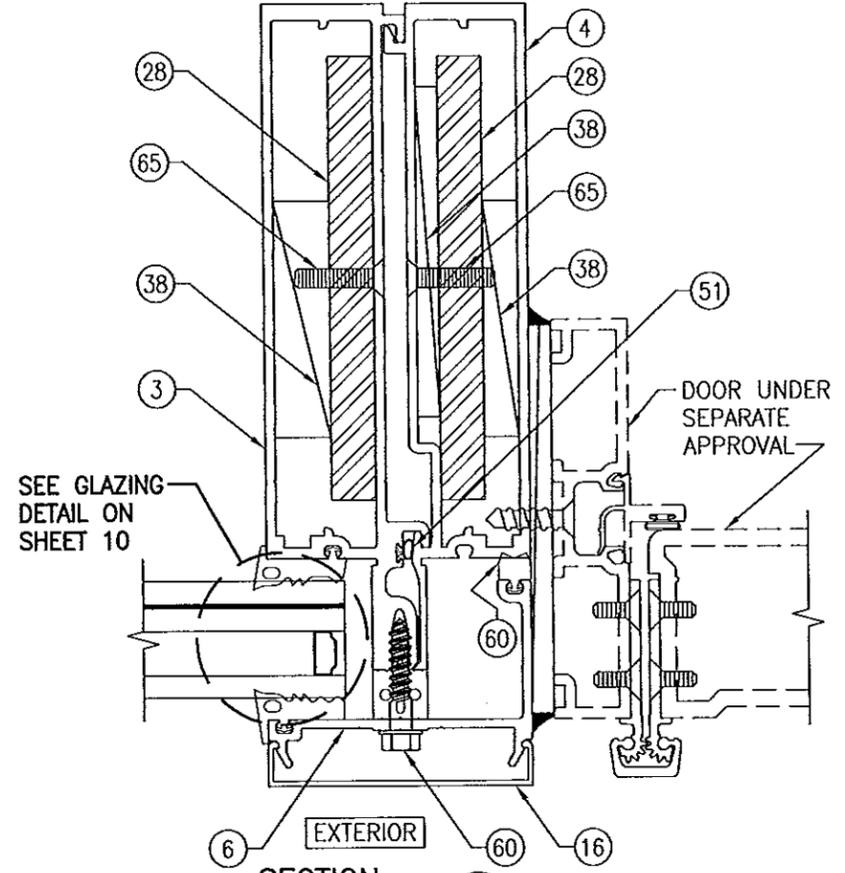
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.	PLOT: 1-2	DATE: 01/15/13
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL			
CONSULTANTS W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION APR 02 2013	WARREN W. SCHAEFFER, P.E. P.E. NO. 44135		
DRAWING NO. 1848	REV.		
SHEET NO. 14	OF 21		



SECTION H1
SCALE: 1/2 FULL 15
INTERMEDIATE VERTICAL MEMBER WITH DOOR & REINFORCEMENT "R0" (NO REINFORCEMENT)
I = 33.770 IN⁴
S = 7.820 IN³

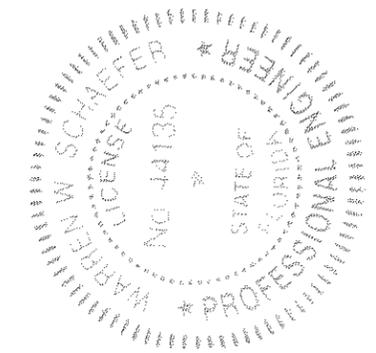


SECTION H2
SCALE: 1/2 FULL 15
INTERMEDIATE VERTICAL MEMBER WITH DOOR & REINFORCEMENT "R1"
I = 51.258 IN⁴
S = 10.513 IN³
(TRANSFORMED SECTION PROPERTIES IN TERMS OF ALUMINUM)
(REINFORCEMENT MAY BE PLACED AT EITHER INTERMEDIATE FRAME MEMBER HALF)

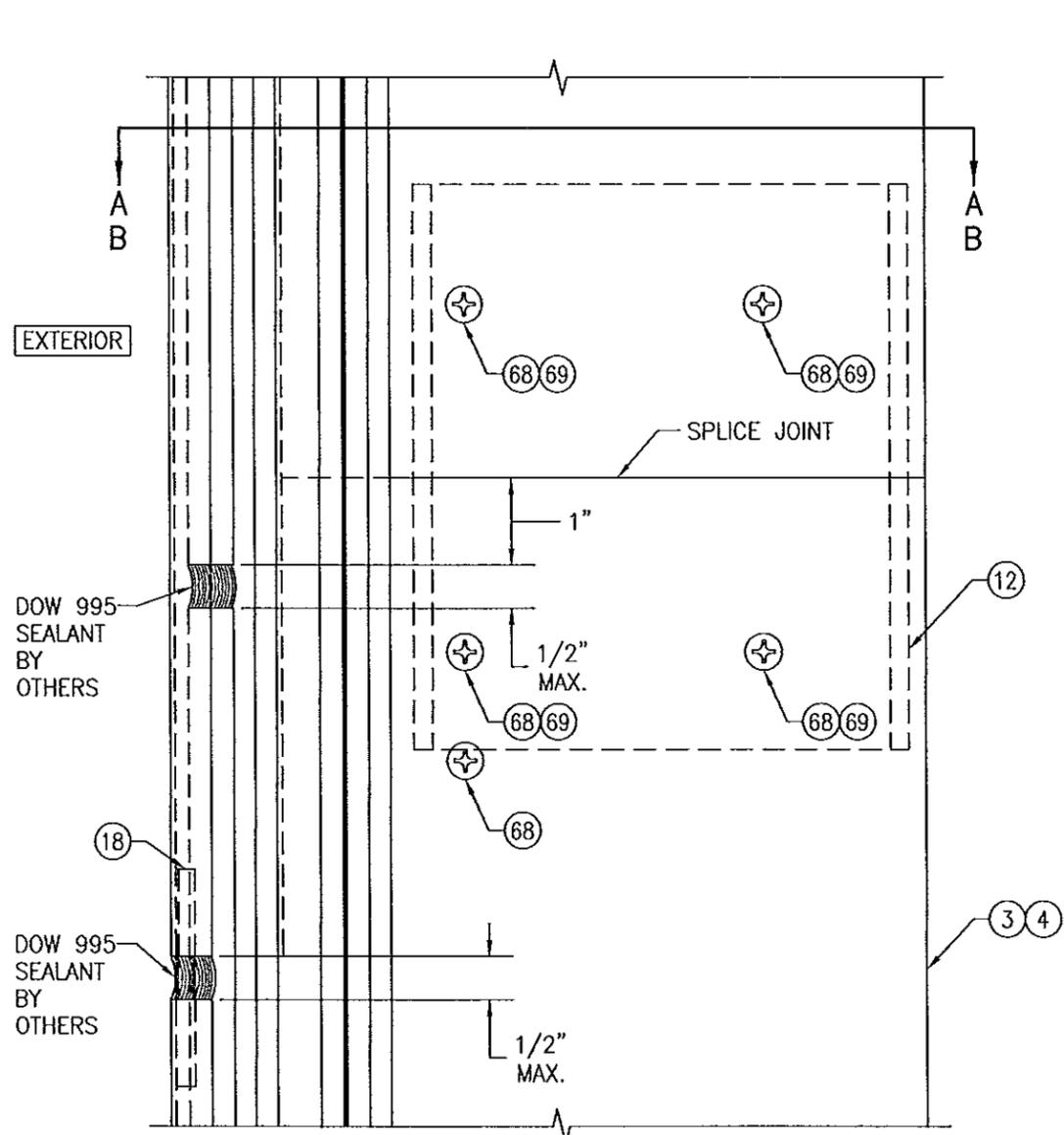


SECTION H3
SCALE: 1/2 FULL 15
INTERMEDIATE VERTICAL MEMBER WITH DOOR & REINFORCEMENT "R2"
I = 61.484 IN⁴
S = 12.343 IN³
(TRANSFORMED SECTION PROPERTIES IN TERMS OF ALUMINUM)

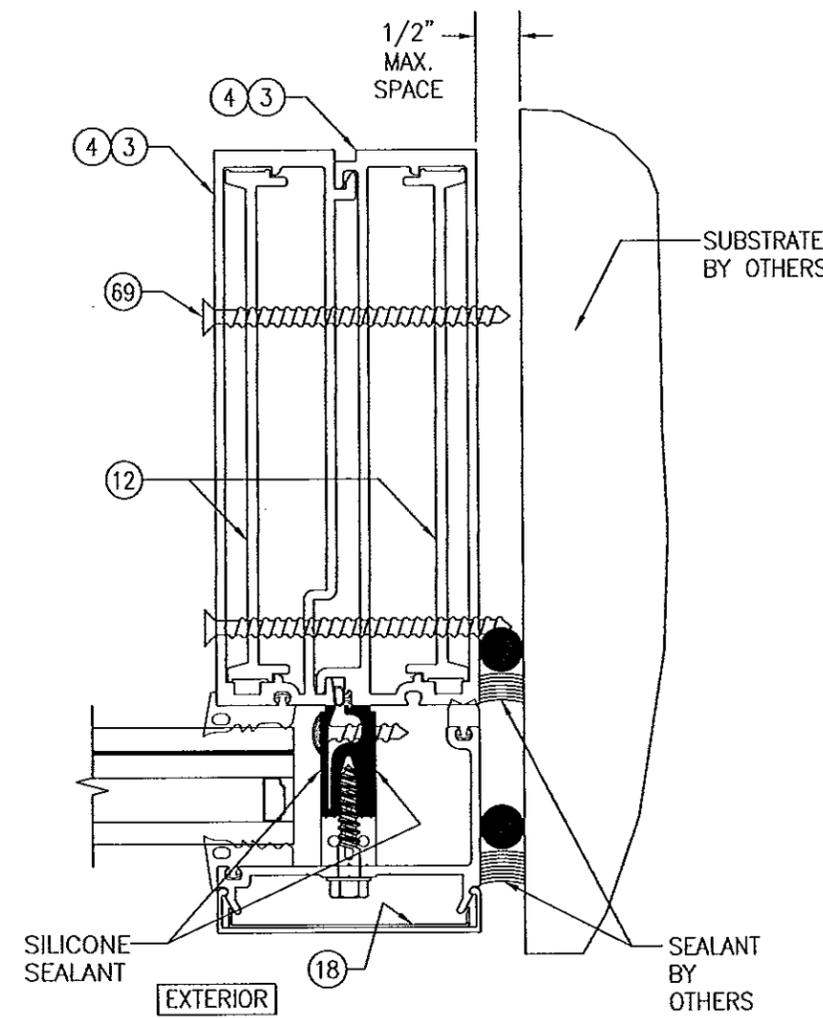
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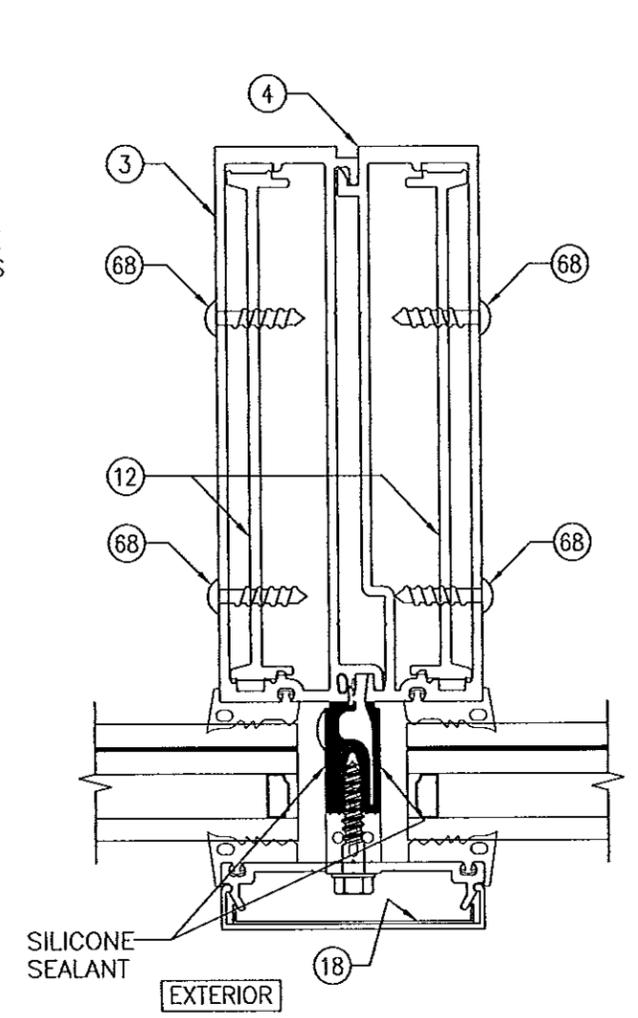
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 01/15/13	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL			
CONSULTANTS: W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: APR 02 2013		WARREN W. SCHAEFFER, P.E. P.E. NO. 44135	
DRAWING NO. 1848	REV.	SHEET NO. 15 OF 21	



SPLICE JOINT DETAIL
(SIDE & INTERMEDIATE VERTICAL FRAME MEMBER)

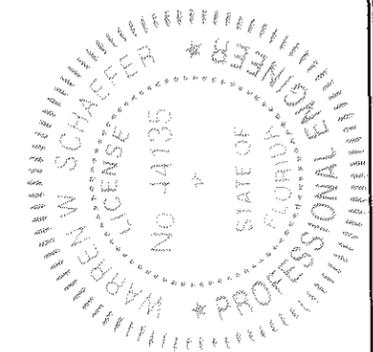


SECTION A-A
(SIDE MEMBER)
(FOR DETAIL NOT SHOWN, SEE SECTION E1/11)

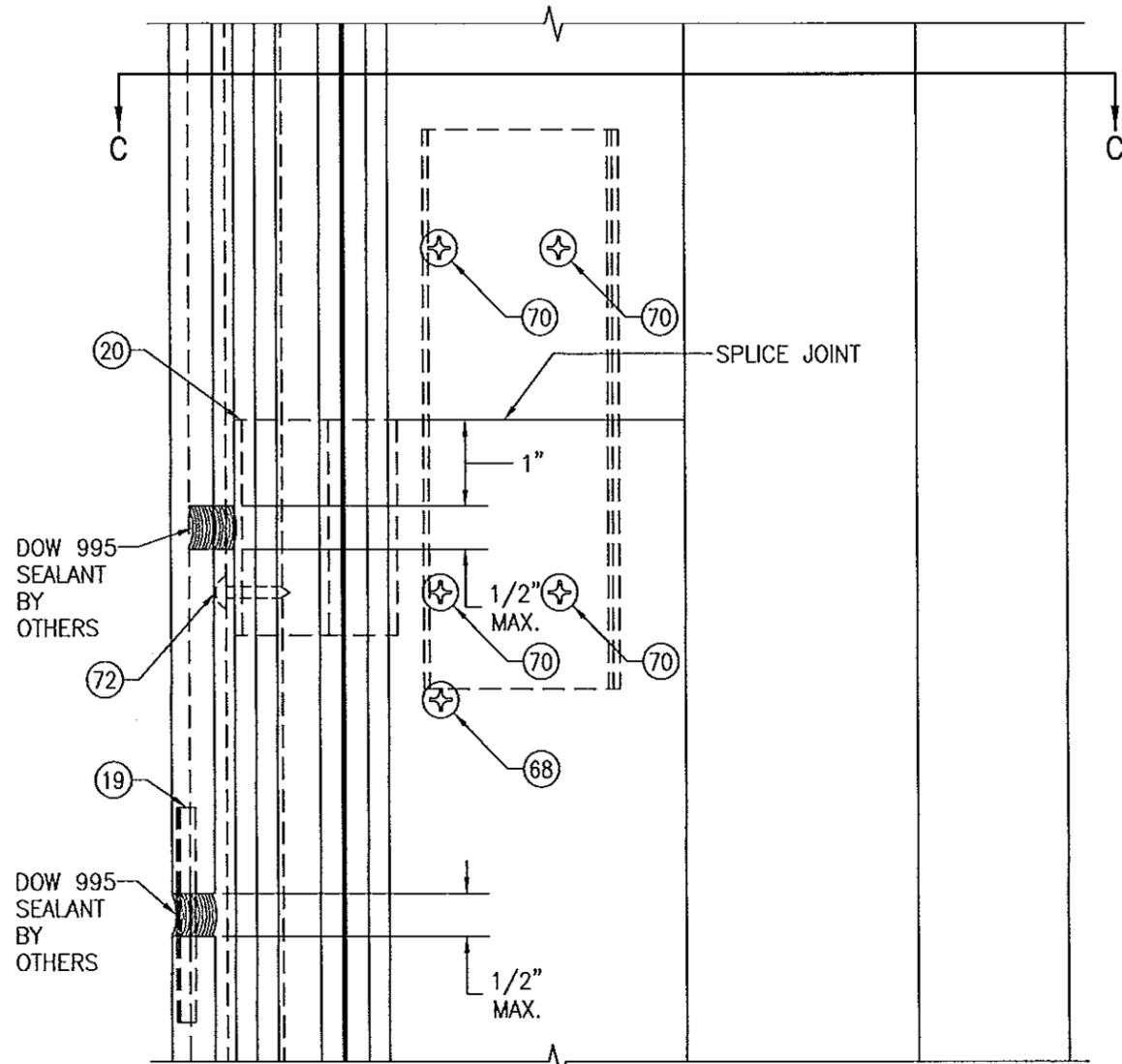


SECTION B-B
(INTERMEDIATE MEMBER)
(FOR DETAIL NOT SHOWN, SEE SECTION F1/13)

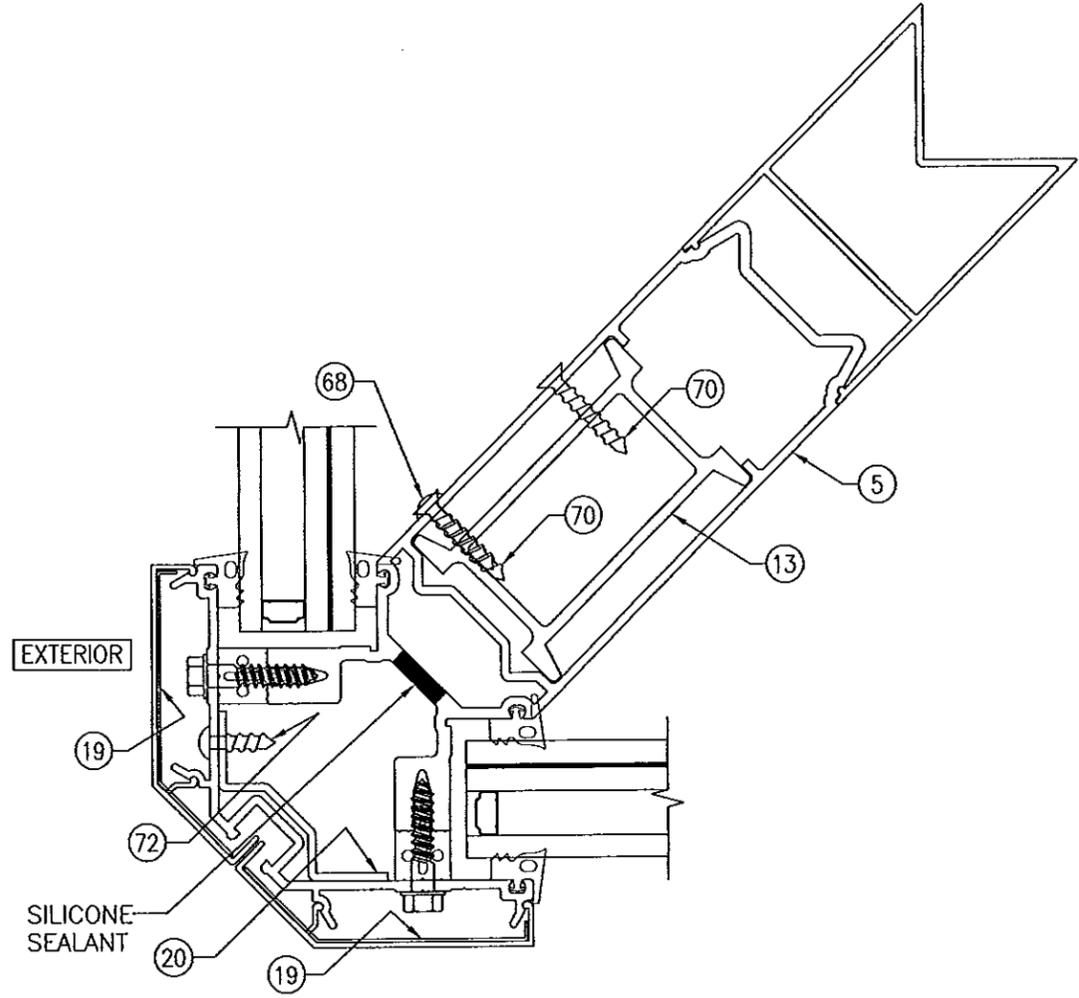
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NOA# 13-0522.13
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PLOT: 1=2		DATE: 01/15/13	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION APR 02 2013		P.E. WARREN W. SCHAEFER P.E. NO. 44135	
DRAWING NO. 1848	REV.	SHEET NO. 16 OF 21	

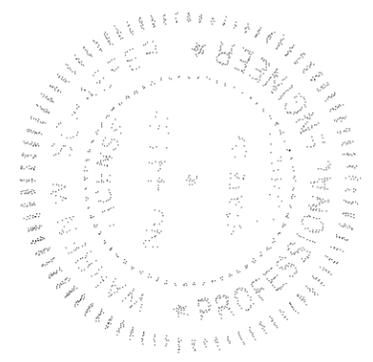


SPLICE JOINT DETAIL
(CORNER MEMBER)

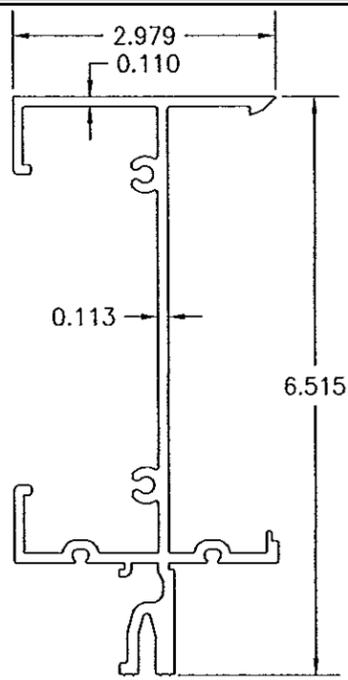


SECTION C-C
(FOR DETAIL NOT SHOWN, SEE SECTION G1/13)

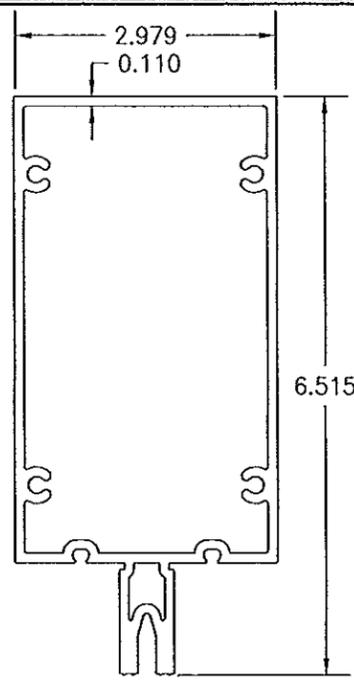
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Florida Building Code
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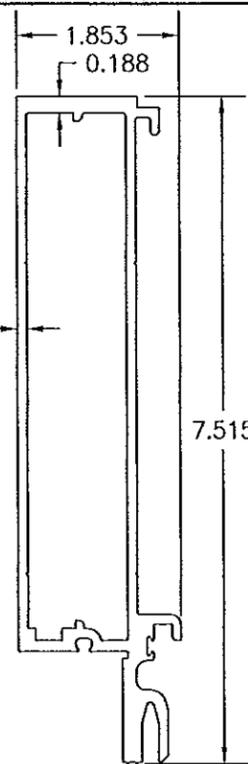
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 01/15/13	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION APR 02 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1848		REV.	
SHEET NO. 17 OF 21			



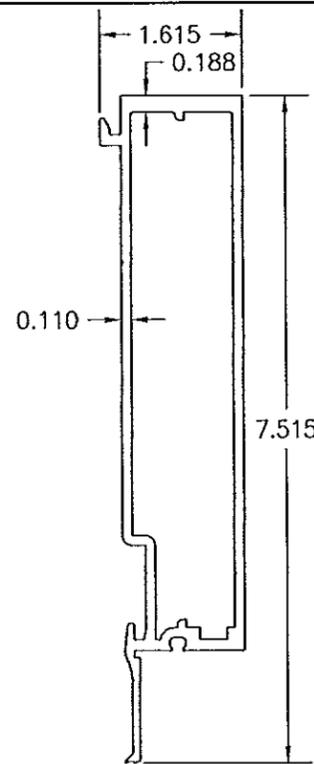
① **HEAD & SILL MEMBER**
 $I = 10.596 \text{ IN}^4$
 $S = 3.172 \text{ IN}^3$



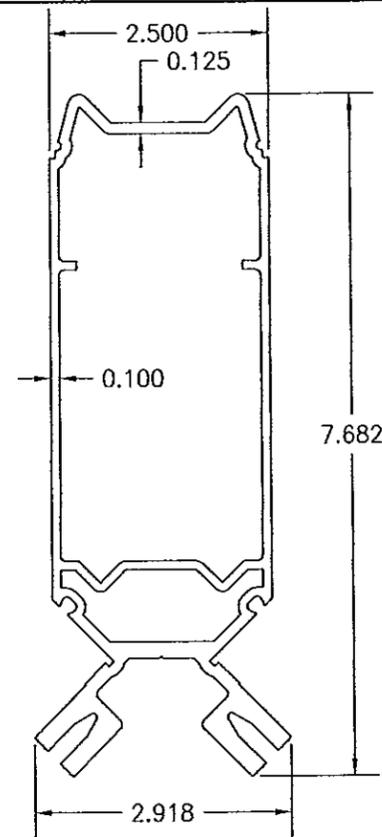
② **INTERMEDIATE HORIZONTAL MEMBER**
 $I = 11.969 \text{ IN}^4$
 $S = 3.668 \text{ IN}^3$



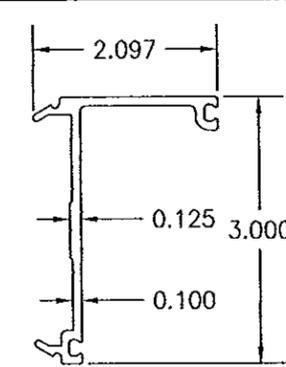
③ **SIDE OR INTERMEDIATE VERTICAL MEMBER (MALE HALF)**
 $I = 14.133 \text{ IN}^4$
 $S = 3.739 \text{ IN}^3$



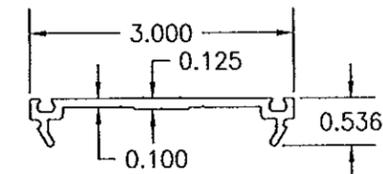
④ **SIDE OR INTERMEDIATE VERTICAL MEMBER (FEMALE HALF)**
 $I = 10.378 \text{ IN}^4$
 $S = 2.441 \text{ IN}^3$



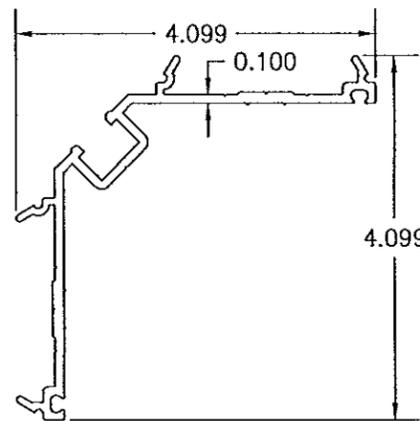
⑤ **CORNER MEMBER**
 $I = 20.024 \text{ IN}^4$
 $S = 4.399 \text{ IN}^3$



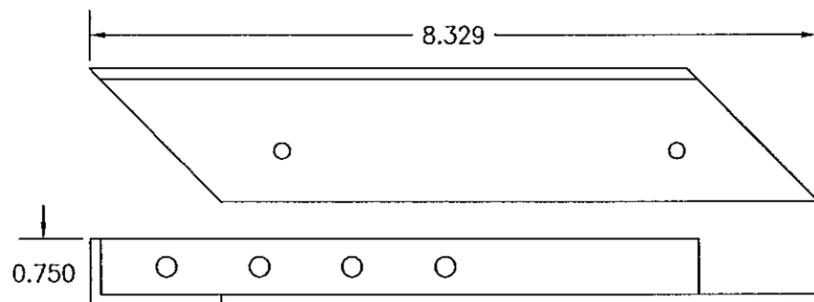
⑥ **PRESSURE PLATE (USED WITH HEAD, SILL OR SIDE MEMBERS)**



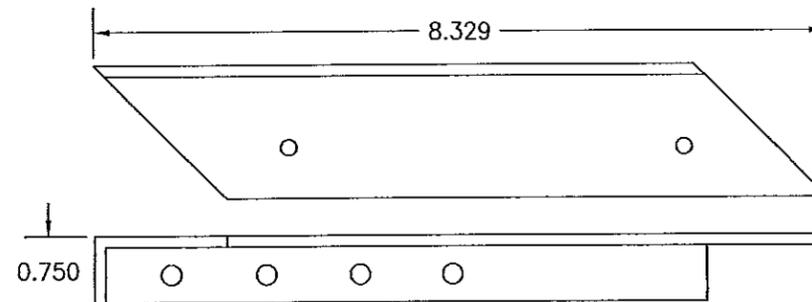
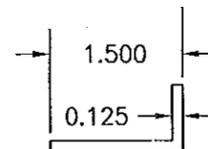
⑦ **PRESSURE PLATE (USED WITH INTERMEDIATE VERTICAL AND INTERMEDIATE HORIZONTAL MEMBERS)**



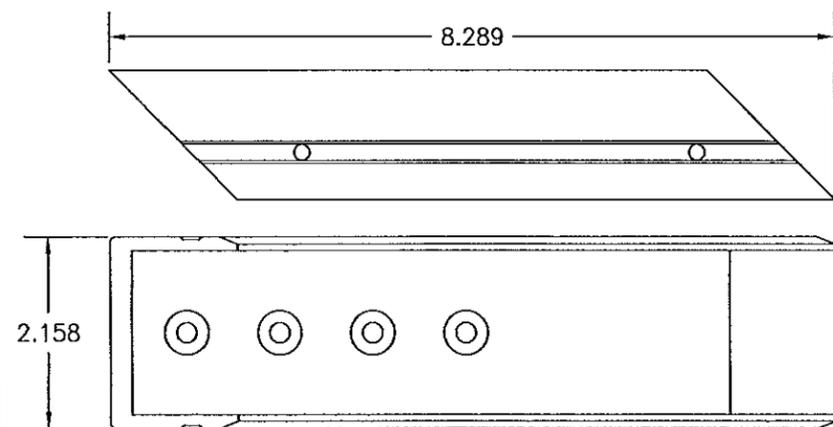
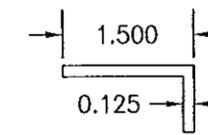
⑧ **PRESSURE PLATE (USED WITH CORNER MEMBER)**



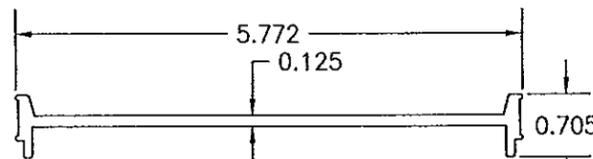
⑨ **SHEAR BLOCK (HEAD TO CORNER MEMBER)**



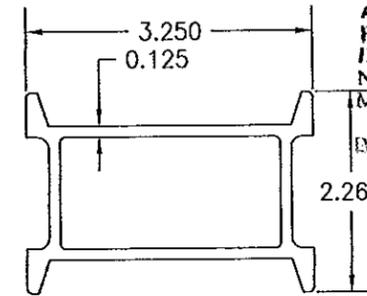
⑩ **SHEAR BLOCK (SILL TO CORNER MEMBER)**



⑪ **SHEAR BLOCK (INTERMEDIATE HORIZONTAL TO CORNER MEMBER)**



⑫ **SPLICE SLEEVE (USED WITH SIDE & INTERMEDIATE MEMBERS)**
 LENGTH = 6.500"



⑬ **SPLICE SLEEVE (USED WITH CORNER MEMBER)**
 LENGTH = 6.500"

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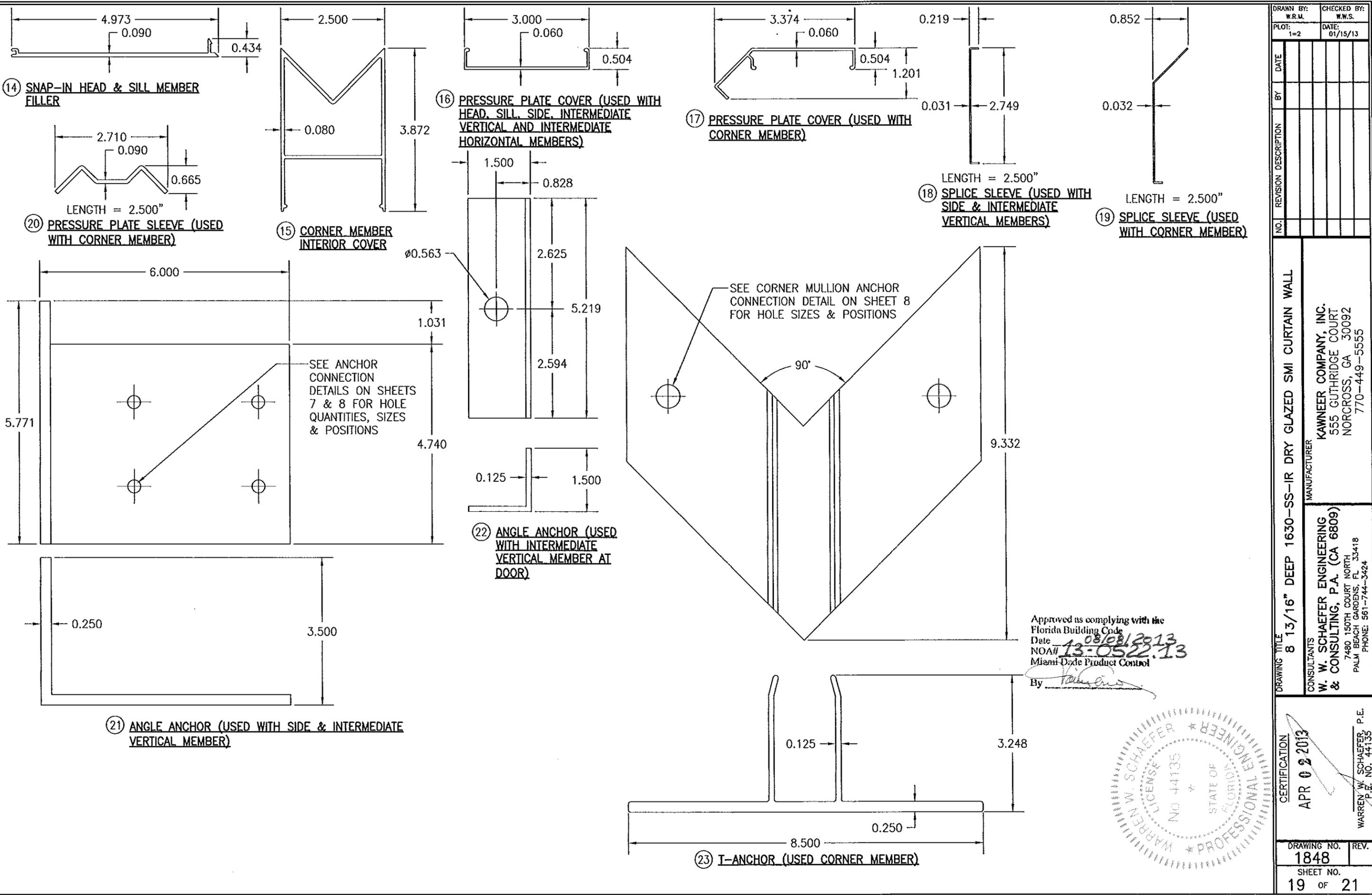


DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1=2	DATE:	01/15/13
NO.		REVISION DESCRIPTION	
BY		DATE	

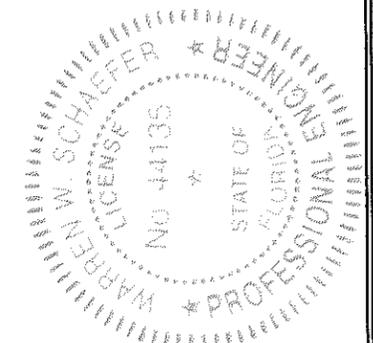
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL
 MANUFACTURER: KAWNEER COMPANY, INC.
 555 GUTHRIDGE COURT
 NORCROSS, GA 30092
 770-449-5555

CONSULTANTS: W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
 7480 150TH COURT NORTH
 PALM BEACH GARDENS, FL 33418
 PHONE: 561-744-3424

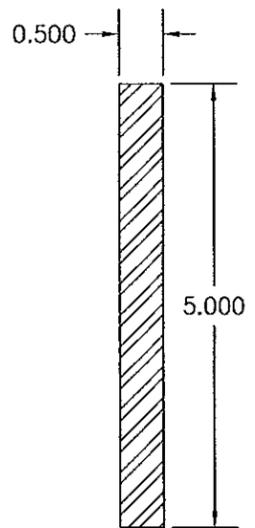
CERTIFICATION: APR 02 2013
 WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135



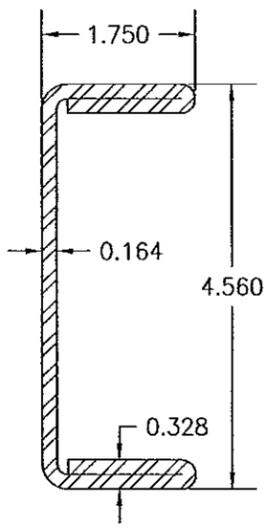
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 Date: 08/21/2013
 NOA#: 13-0522.13
 Miami-Dade Product Control
 By: *[Signature]*



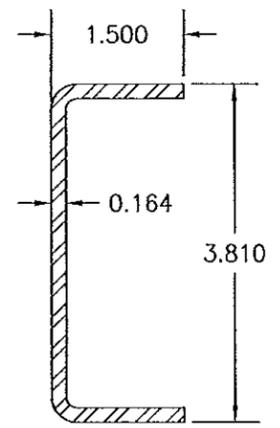
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 01/15/13
DATE	BY
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555
CERTIFICATION APR 02 2013	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1848	REV.
SHEET NO. 19	OF 21



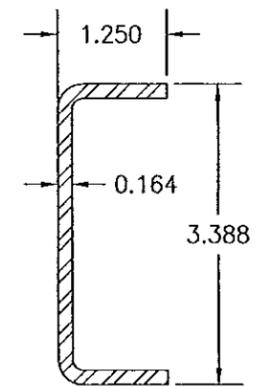
28) **VERTICAL SIDE & INTERMEDIATE MEMBER REINFORCEMENT**
 $I = 5.208 \text{ IN}^4$
 $S = 2.083 \text{ IN}^3$



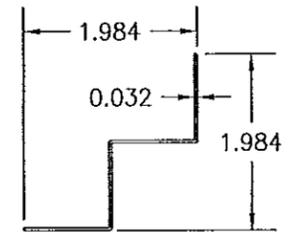
29) **CORNER MEMBER REINFORCEMENT**
 $I = 5.543 \text{ IN}^4$
 $S = 2.431 \text{ IN}^3$



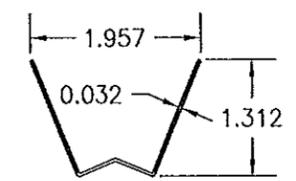
30) **CORNER MEMBER REINFORCEMENT**
 $I = 2.111 \text{ IN}^4$
 $S = 1.108 \text{ IN}^3$



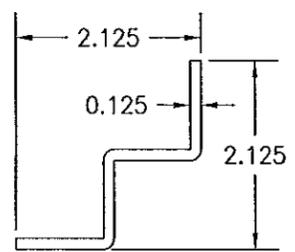
31) **CORNER MEMBER REINFORCEMENT**
 $I = 1.378 \text{ IN}^4$
 $S = 0.813 \text{ IN}^3$



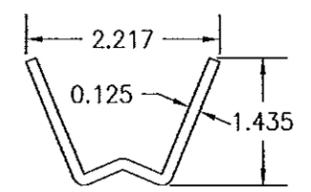
36A) **SPLICE COVER (USED WITH FLASHED 90° CORNERS)**



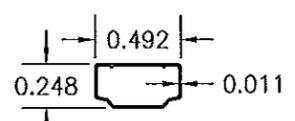
36B) **SPLICE COVER (USED WITH FLASHED 135° CORNERS)**



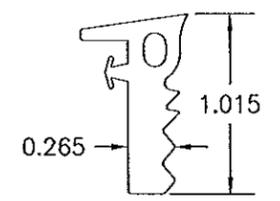
37A) **SPLICE (USED WITH FLASHED 90° CORNERS)**



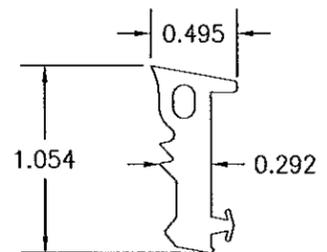
37B) **SPLICE (USED WITH FLASHED 135° CORNERS)**



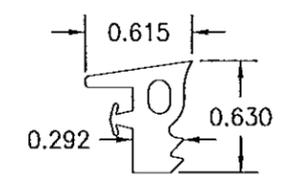
42) **1/2" I.G. GLASS SPACER**



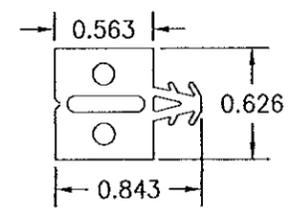
52) **EXTERIOR GLAZING GASKET (USED WITH STANDARD MEMBERS)**



53) **INTERIOR GLAZING GASKET (USED WITH STANDARD MEMBERS)**

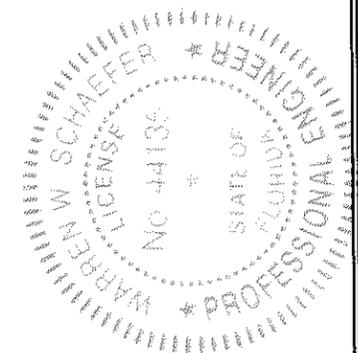


54) **EXTERIOR & INTERIOR GLAZING GASKET (USED WITH CORNER MEMBERS)**



56) **THERMAL SEPARATOR**

Approved as complying with the
 Florida Building Code
 Date 08/08/2013
 NOA# 13-0522.13
 Miami Dade Product Control
 By [Signature]



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 01/15/13	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE 8 13/16" DEEP 1630-SS-IR DRY GLAZED SMI CURTAIN WALL			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION APR 02 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1848	
SHEET NO. 20 OF 21		REV.	

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	HEAD & SILL MEMBER	6063-T6 ALUMINUM
2	INTERMEDIATE HORIZONTAL MEMBER	6063-T6 ALUMINUM
3	SIDE OR INTERMEDIATE VERTICAL MEMBER (MALE HALF)	6063-T6 ALUMINUM
4	SIDE OR INTERMEDIATE VERTICAL MEMBER (FEMALE HALF)	6063-T6 ALUMINUM
5	CORNER MEMBER	6063-T6 ALUMINUM
6	PRESSURE PLATE (USED WITH HEAD, SILL OR SIDE MEMBERS)	6063-T6 ALUMINUM
7	PRESSURE PLATE (USED WITH INTERMEDIATE VERTICAL AND INTERMEDIATE HORIZONTAL MEMBERS)	6063-T6 ALUMINUM
8	PRESSURE PLATE (USED WITH CORNER MEMBER)	6063-T6 ALUMINUM
9	SHEAR BLOCK (HEAD TO CORNER MEMBER)	6063-T6 ALUMINUM
10	SHEAR BLOCK (SILL TO CORNER MEMBER)	6063-T6 ALUMINUM
11	SHEAR BLOCK (INTERMEDIATE HORIZONTAL TO CORNER MEMBER)	6063-T6 ALUMINUM
12	SPLICE SLEEVE (USED WITH SIDE & INTERMEDIATE MEMBERS)	6063-T6 ALUMINUM
13	SPLICE SLEEVE (USED WITH CORNER MEMBER)	6063-T6 ALUMINUM
14	SNAP-IN HEAD & SILL MEMBER FILLER	6063-T6 ALUMINUM
15	CORNER MULLION INTERIOR COVER	6063-T6 ALUMINUM
16	PRESSURE PLATE COVER (USED WITH HEAD, SILL, SIDE, INTERMEDIATE VERTICAL AND INTERMEDIATE HORIZONTAL MEMBERS)	6063-T6 ALUMINUM
17	PRESSURE PLATE COVER (USED WITH CORNER MEMBER)	6063-T6 ALUMINUM
18	SPLICE SLEEVE (USED WITH SIDE & INTERMEDIATE VERTICAL MEMBERS)	6063-T6 ALUMINUM
19	SPLICE SLEEVE (USED WITH CORNER MEMBER)	6063-T6 ALUMINUM
20	PRESSURE PLATE SLEEVE (USED WITH CORNER MEMBER)	6063-T6 ALUMINUM
21	ANGLE ANCHOR (USED WITH SIDE & INTERMEDIATE VERTICAL MEMBERS)	6063-T6 ALUMINUM
22	ANGLE ANCHOR (USED WITH INTERMEDIATE VERTICAL MEMBER AT DOOR)	6063-T6 ALUMINUM
23	ANGLE ANCHOR (USED WITH CORNER MEMBER)	6063-T6 ALUMINUM
24	3" X 5" X 3/16" FLAT BAR	6063-T6 ALUMINUM
25	1" X 1" X 1/8" ANGLE	6063-T6 ALUMINUM
26	1" X 1" X 1/8" ANGLE (LENGTH AS REQ'D)	6063-T6 ALUMINUM
28	VERTICAL SIDE & INTERMEDIATE MEMBER REINFORCEMENT	ASTM A36 STEEL
29	CORNER MEMBER REINFORCEMENT	ASTM A1011 GRADE 50 STEEL
30	CORNER MEMBER REINFORCEMENT	ASTM A1011 GRADE 50 STEEL
31	CORNER MEMBER REINFORCEMENT	ASTM A1011 GRADE 50 STEEL
32	2" X 5" X 3/16" FLAT BAR	ASTM A1011 GRADE 50 STEEL
33	6" X 3" X 1/2" X 6" LONG ANGLE	50 KSI STEEL
34	9 1/2" X 4" X 5/8" X 6" LONG BENT PLATE	50 KSI STEEL
35	INTERIOR FLASHING (LENGTH & BEND AS REQ'D)	H5005-H34 BRAKE METAL
36A	SPLICE COVER (USED WITH FLASHED 90' CORN.)	H5005-H34 BRAKE METAL
36B	SPLICE COVER (USED WITH FLASHED 135' CORN.)	H5005-H34 BRAKE METAL
37A	SPLICE (USED WITH FLASHED 90' CORNERS)	H5005-H34 BRAKE METAL
37B	SPLICE (USED WITH FLASHED 135' CORNERS)	H5005-H34 BRAKE METAL
38	COMMERCIAL GRADE HOESHOE SHIM	PLASTIC LOCATED AT EACH ITEM #65
42	1/2" I.G. GLASS SPACER	3005 OR 3105 ALUMINUM

SEALS & SEALANTS		
50	FIXED GASKET	TREMCO TR4726P EPDM DUROMETER 65 +/-5
51	FRAMING GASKET	INTEK 50172A SANTOPRENE DUROMETER 65 POLYPROPYLENE DUROMETER 80
52	EXTERIOR GLAZING GASKET (USED WITH STANDARD MEMBERS)	TREMCO TR-20494P EPDM DUROMETER 60 +/-5
53	INTERIOR GLAZING GASKET (USED WITH STANDARD MEMBERS)	TREMCO TR-19828E EPDM DUROMETER 60 +/-5
54	EXTERIOR & INTERIOR GLAZING GASKET (USED WITH CORNER MEMBERS)	TREMCO TR-4014P EPDM DUROMETER 60 +/-5
56	THERMAL SEPARATOR	TREMCO TR-20087E EPDM DUROMETER 70 +/-5
57	STEEL TO ALUMINUM SEPERATOR	THERMO-TOK TN-9004
FASTENERS		
60	1/4" X 1 1/4" HWHTFS 300 SERIES S.S.	WITHIN 3" FROM ENDS & 9" MAX. O.C.
61	NO. 12 X 1" HWHTFS 300 SERIES S.S.	2 PER FRAME END
62	NO. 12 X 7/16" PHTF 430 SERIES S.S.	4 PER SHEAR BLOCK
63	NO. 12 X 1" PHTF 300 SERIES S.S.	2 PER SHEAR BLOCK
64	NO. 10 X 1" FHTFS 300 SERIES S.S.	WITHIN 4 FROM ENDS & 48" MAX. O.C.
65	10-24 X 1" FHMS 300 SERIES S.S.	WITHIN 3" FROM ENDS & 48" MAX. O.C.
66	NO. 12 X 1" HWHTFS 300 SERIES S.S.	4 PER FRAME END
67	NO. 12 X 7/8" FHTFS 300 SERIES S.S.	4 PER SHEAR BLOCK
68	NO. 12 X 1" PHTFS 300 SERIES S.S.	2 PER JAMB SPLICE JOINT 1 UNDER SLICE; 4 PER INTERMEDIATE SPLICE JOINT 1 UNDER SLICE 1 UNDER CORNER SLICE JOINT
69	NO. 12 X 3 1/2" FHTFS 300 SERIES S.S.	4 PER JAMB SPLICE JOINT
70	10-16 X 1 1/4" FHS DS 300 SERIES S.S.	4 PER CORNER SPLICE JOINT
71	1/4-20 X 2 1/2" FHTCMS CARBON STEEL	WITHIN 4" FROM ENDS & 24" MAX. O.C.
72	10-16 X 3/4" PHS DS 400 SERIES S.S.	1 PER PRESSURE PLATE SLEEVE
73	10 X 5/8" FHTFS 300 SERIES S.S.	6 PER ITEM 24
74	NO. 10 X 1/2" FHTFS 300 SERIES S.S.	3 PER ITEM 22

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DRAWING NO. 1848	REV.
SHEET NO. 21 OF 21	

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Date 04/02/2013
NOAH 13-0522.13
Miami Dade Product Control
By [Signature]

