

GENERAL NOTES:

1. THIS PRODUCT HAS 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. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ) & IS LARGE MISSILE IMPACT RATED.
5. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
6. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
7. 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 PER THE ASCE-7 STANDARD.
8. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
9. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/OA ENTRY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATIONS. THESE DRAWINGS SHOW ALL APPLICABLE ELEVATION, COMBINATION, INSTALLATION & COMPARATIVE ANALYSIS CONDITIONS AS DETERMINED THROUGH TESTING & ENGINEERING RATIONAL ANALYSIS. PRODUCT ASSEMBLY SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
10. CERTIFICATION OF THIS PRODUCT SHALL BE CONSIDERED VOID IF IT IS INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT OR IF IT IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT.
11. ALL WOOD MEMBERS OF THIS PRODUCT THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC REQUIREMENTS.

FRAME ANCHOR REQUIREMENTS TABLE

| OPENING TYPE<br>(SUBSTRATE)                          | FRAME/CLIP/BACKET TO<br>OPENING FASTENER TYPE | MINIMUM<br>EMBED | MINIMUM<br>EDGE DIST. |
|------------------------------------------------------|-----------------------------------------------|------------------|-----------------------|
| FRAME SCREWS                                         |                                               |                  |                       |
| MIN. 2X4 WOOD FRAME OR BUCK<br>(MIN. GR. 3 & G=0.55) | NO. 14 SMS/WOOD SCREW OR<br>1/4" BTI SCREW    | 1 1/4"           | 3/4"                  |
| MIN. 16 GA. 33 KSI METAL STUD                        | 1/4" GR. 5 SELF TAP/DRILLING SCREW            | FULL             | 1/2"                  |
| MIN. 1/8" THK A36 STEEL                              | 1/4" GR. 5 SELF TAP/DRILLING SCREW            | FULL             | 1/2"                  |
| MIN. 1/8" THK 6063-T5 ALUM.                          | 1/4" GR. 5 SELF TAP/DRILLING SCREW            | FULL             | 1/2"                  |
| (3) C-90 CMU                                         | (1) 1/4" CONCRETE SCREW                       | 1 1/4"           | 2"                    |
| 2500 PSI CONCRETE                                    | (1) 1/4" CONCRETE SCREW                       | 1 3/4"           | 2"                    |

INSTALLATION CLIP SCREWS

|                                                          |                                   |        |      |
|----------------------------------------------------------|-----------------------------------|--------|------|
| (2) MIN. 2X_ WOOD FRAME OR BUCK<br>(MIN. GR. 3 & G=0.55) | NO. 12 SMS OR WOOD SCREW          | 1 3/8" | 3/4" |
| MIN. 16 GA. 33 KSI METAL STUD                            | NO. 12 GR. 5 SELF TAP/DRILL SCREW | FULL   | 1/2" |
| MIN. 1/8" THK A36 STEEL                                  | NO. 12 GR. 5 SELF TAP/DRILL SCREW | FULL   | 1/2" |
| MIN. 1/8" THK 6063-T5 ALUM.                              | NO. 12 GR. 5 SELF TAP/DRILL SCREW | FULL   | 1/2" |
| (3) C-90 CMU                                             | (1) 1/4" CONCRETE SCREW           | 1 1/4" | 2"   |
| 2500 PSI CONCRETE                                        | (1) 1/4" CONCRETE SCREW           | 1 3/4" | 2"   |

BTI BRACKET SCREWS

|                                                          |                                  |        |      |
|----------------------------------------------------------|----------------------------------|--------|------|
| (2) MIN. 2X_ WOOD FRAME OR BUCK<br>(MIN. GR. 3 & G=0.55) | NO. 8 SMS OR WOOD SCREW          | 1 3/8" | 3/4" |
| MIN. 18 GA. 33 KSI METAL STUD                            | NO. 8 GR. 5 SELF TAP/DRILL SCREW | FULL   | 1/2" |
| MIN. 1/8" THK A36 STEEL                                  | NO. 8 GR. 5 SELF TAP/DRILL SCREW | FULL   | 1/2" |
| MIN. 1/8" THK 6063-T5 ALUM.                              | NO. 8 GR. 5 SELF TAP/DRILL SCREW | FULL   | 1/2" |

ANGLE CLIP SCREWS

|                                                      |                                  |         |      |
|------------------------------------------------------|----------------------------------|---------|------|
| MIN. 2X4 WOOD FRAME OR BUCK<br>(MIN. GR. 3 & G=0.55) | NO. 8 SMS OR WOOD SCREW          | 1 5/16" | 1/2" |
| MIN. 1/8" THK A36 STEEL                              | NO. 8 GR. 5 SELF TAP/DRILL SCREW | FULL    | 1/2" |
| MIN. 1/8" THK 6063-T5 ALUM.                          | NO. 8 GR. 5 SELF TAP/DRILL SCREW | FULL    | 1/2" |

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).
- (2) 2X\_ BUCKS SHALL BE OF A MINIMUM DEPTH REQUIRED TO MEET ANCHOR EDGE DISTANCE REQUIREMENTS
- (3) CMU IS NOT APPLICABLE AT HEAD OR SILL.

SASH LOCK QUANTITY  
REQUIREMENTS

| FRAME WIDTH | QUANTITY<br>PER SASH |
|-------------|----------------------|
| 22"         | 2                    |
| 22" & LESS  | 1                    |

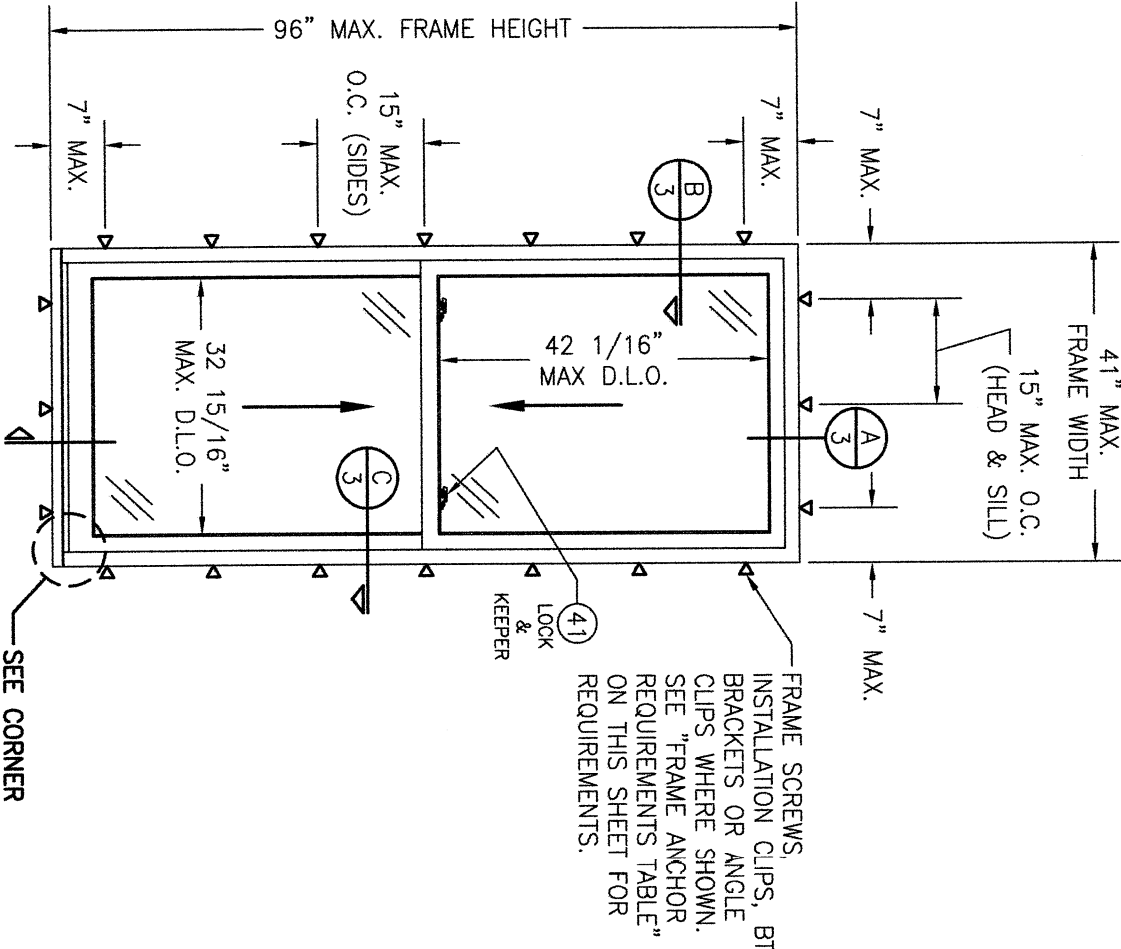
EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THIS EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THIS PRODUCT, PRIOR TO STATING CODE COMPLIANCE WITH THE STATE, THE MANUFACTURER SHALL CONFIRM WITH THE EVALUATION ENGINEER OF RECORD THAT EVERYTHING SPECIFIED HERE-IN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.

ANCHOR/SUBSTRATE EVALUATION NOTE:

ALL ANCHORS IN THEIR SPECIFIED SUBSTRATES HAVE BEEN ANALYZED IN ACCORDANCE WITH THEIR APPLICABLE STANDARD(S) AND ARE FOUND TO BE CAPABLE OF SUPPORTING ALL LOADS IMPOSED ON THEM UNDER THE GUIDELINES OF THIS DOCUMENT. ANY SUBSTRATES OR CONDITIONS OUTSIDE OF WHAT IS SHOWN HERE-IN SHALL BE SUBJECT TO JOB SPECIFIC ENGINEER'S REVIEW & CERTIFICATION.

ALLOWABLE DESIGN PRESSURE  
(ALL WINDOW CONDITIONS)

+/-70 PSF



EXTERIOR ELEVATION:  
SINGLE WINDOW

(DOUBLE HUNG WINDOW SHOWN. SINGLE HUNG IS IDENTICAL EXCEPT THE TOP SASH IS FIXED. FOR SINGLE HUNG FIXED SASH DETAIL, SEE "ALTERNATE SECTION B" ON SHEET 3)



Digitally signed  
by Warren W  
Schaefer  
Date:  
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12:04:34 -04'00'

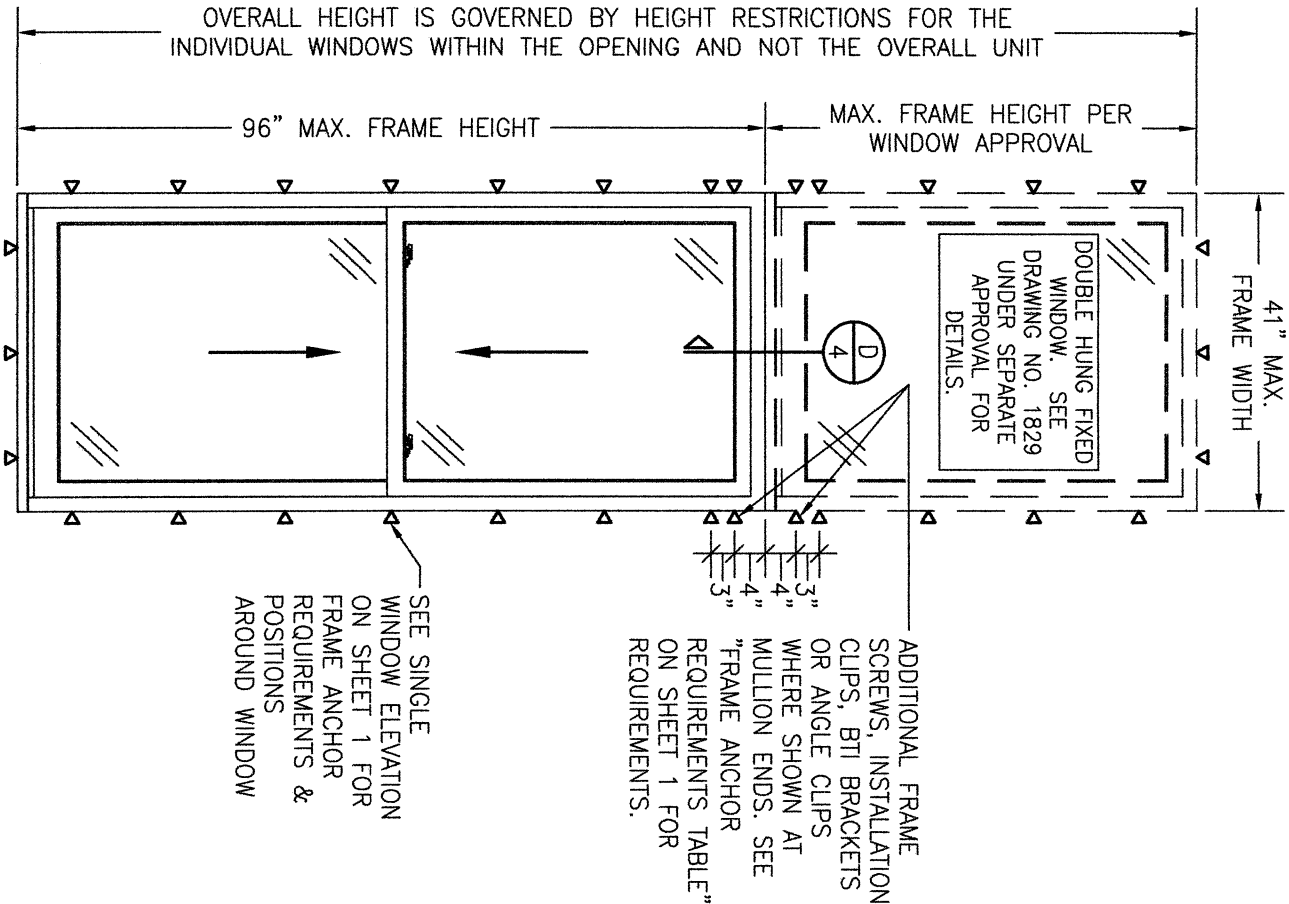
**CORNER CONSTRUCTION:**  
FRAME CORNERS: SQUARE CUT, BUTTED AND JOINED WITH THREE(3) NO. 10 X 2" WOOD SCREWS THROUGH THE HORIZONTAL MEMBERS INTO THE VERTICAL MEMBERS & GLUED WITH OTTOSEAL M360 WOOD GLUE OR EQUIVALENT.  
MULLION ENDS: SQUARE CUT, BUTTED AND JOINED WITH TWO(2) NO. 10 X 2" WOOD SCREWS THROUGH THE HORIZONTAL MEMBERS INTO THE VERTICAL MEMBERS & GLUED WITH OTTOSEAL M360 WOOD GLUE OR EQUIVALENT.  
SASH CORNERS: SQUARE CUT, BUTTED AND JOINED WITH FOUR(4) 5/16" X 1 1/2" WOOD DOWELS & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.

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.

| DRAWN BY: W.W.M. |  | CHECKED BY: W.W.S.         |  |
|------------------|--|----------------------------|--|
| PLOT: 1-e24      |  | DATE: 07/02/12             |  |
| NO.              |  | REVISION DESCRIPTION       |  |
| A1               |  | UPDATE TO CURENT STANDARDS |  |
| B1               |  | CHANGE TO FLORIDA APPROVAL |  |
| C1               |  | UPDATE WOOD PROPERTIES     |  |
| BY               |  | DATE                       |  |
| W.W.S.           |  | 07/21/17                   |  |
| W.W.S.           |  | 12/06/21                   |  |
| W.W.S.           |  | 06/19/23                   |  |

| DRAWING TITLE                                                                 |  | MANUFACTURER                                                                                 |  |
|-------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------|--|
| SINGLE & DOUBLE HUNG CONCEALED BALANCE SYSTEM IMPACT WINDOW                   |  | TISCHLER UND SOHN (USA) LTD.<br>SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT<br>203-674-0600 |  |
| CONSULTANTS                                                                   |  |                                                                                              |  |
| W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)                       |  |                                                                                              |  |
| 7480 150TH COURT NORTH<br>PALM BEACH GARDENS, FL 33418<br>PHONE: 561-744-3424 |  |                                                                                              |  |

| CERTIFICATION                              |  | DRAWING NO.      |  |
|--------------------------------------------|--|------------------|--|
| WARREN W. SCHAEFER, P.E.<br>P.E. NO. 44135 |  | 1827             |  |
|                                            |  | C                |  |
|                                            |  | SHEET NO. 1 OF 7 |  |

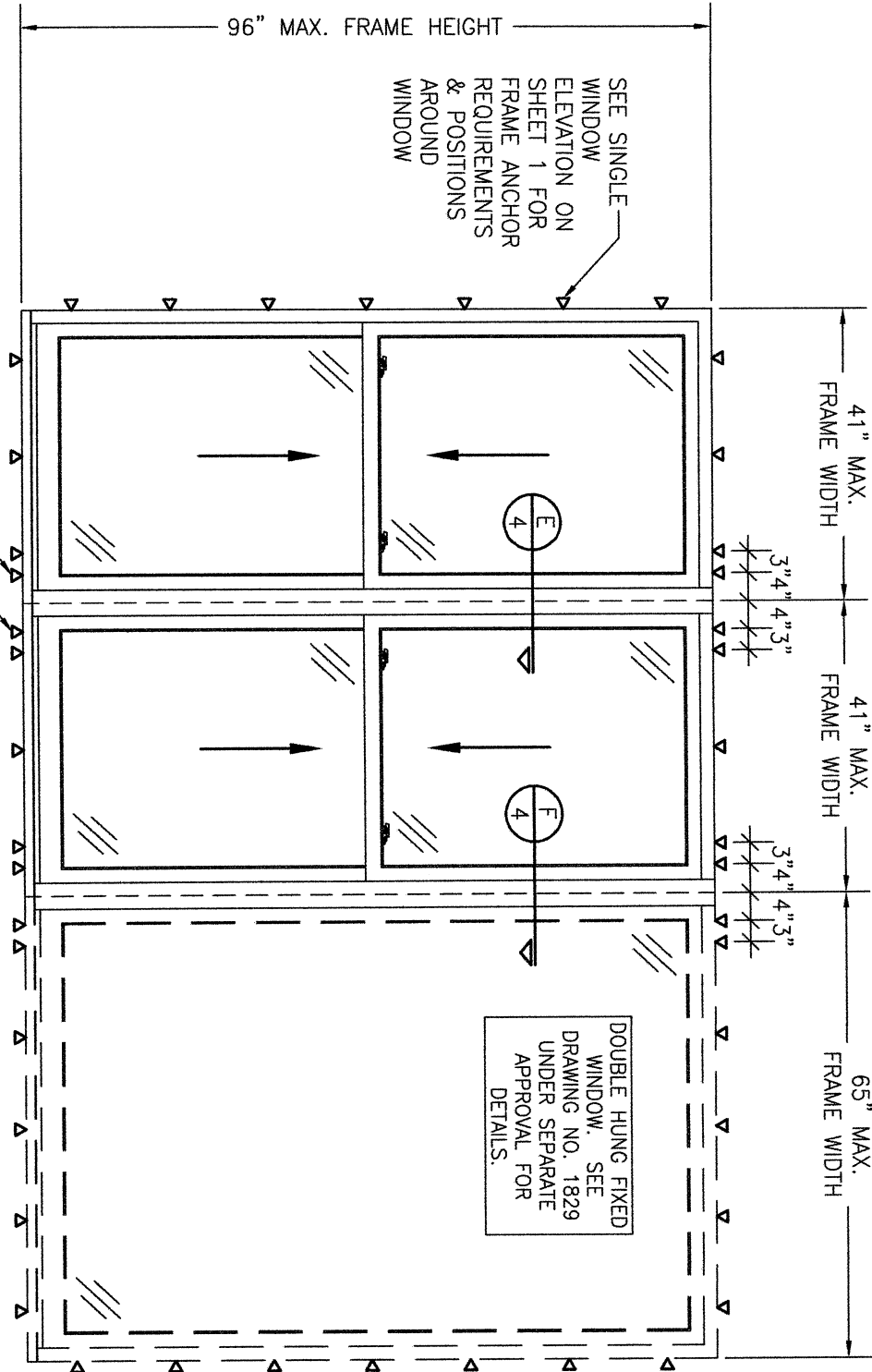


**EXTERIOR ELEVATION:**

**SINGLE WINDOW WITH TRANSOM**

SCALE: 1/2" = 1'-0"

(DOUBLE HUNG WINDOW SHOWN. SINGLE HUNG WINDOW ALSO APPLIES)  
(FOR DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION ON SHEET 1)



**EXTERIOR ELEVATION:**

**MULTIPLE OPERABLE/FIXED WINDOW**

SCALE: 1/2" = 1'-0"

(DOUBLE HUNG WINDOWS SHOWN. SINGLE HUNG WINDOWS ALSO APPLY)

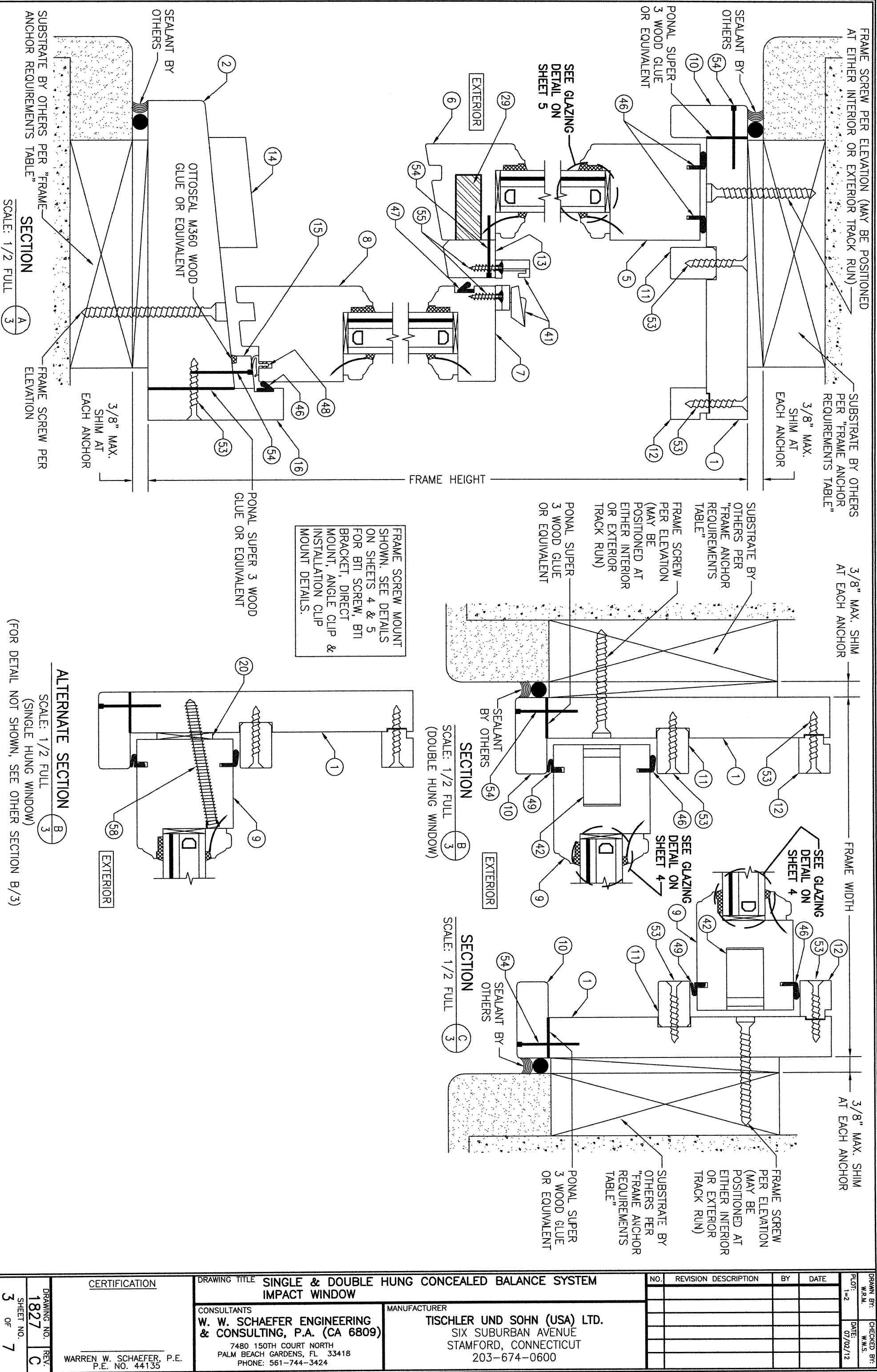
**MULTIPLE UNIT NOTES:**

1. FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL WINDOW ELEVATION.
2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED HORIZONTALLY IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.
3. ANY COMBINATION OF FIXED/OPERABLE WINDOWS IN ONE OPENING SHALL APPLY.

| NO. | REVISION | DESCRIPTION | BY | DATE |
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| DRAWING TITLE                                               |  | CONSULTANTS                                                                   |  | MANUFACTURER                                                 |  |
|-------------------------------------------------------------|--|-------------------------------------------------------------------------------|--|--------------------------------------------------------------|--|
| SINGLE & DOUBLE HUNG CONCEALED BALANCE SYSTEM IMPACT WINDOW |  | W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)                       |  | TISCHLER UND SOHN (USA) LTD.                                 |  |
|                                                             |  | 7480 150TH COURT NORTH<br>PALM BEACH GARDENS, FL 33418<br>PHONE: 561-744-3424 |  | SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT<br>203-674-0600 |  |

| CERTIFICATION                              |  | DRAWING NO. |  | SHEET NO. |  |
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| WARREN W. SCHAEFER, P.E.<br>P.E. NO. 44135 |  | 1827<br>C   |  | 2 OF 7    |  |



| NO. | REVISION | DESCRIPTION | BY | DATE | DRAWN BY: | CHECKED BY: |
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|     |          |             |    |      | W.M.M.    | W.M.S.      |
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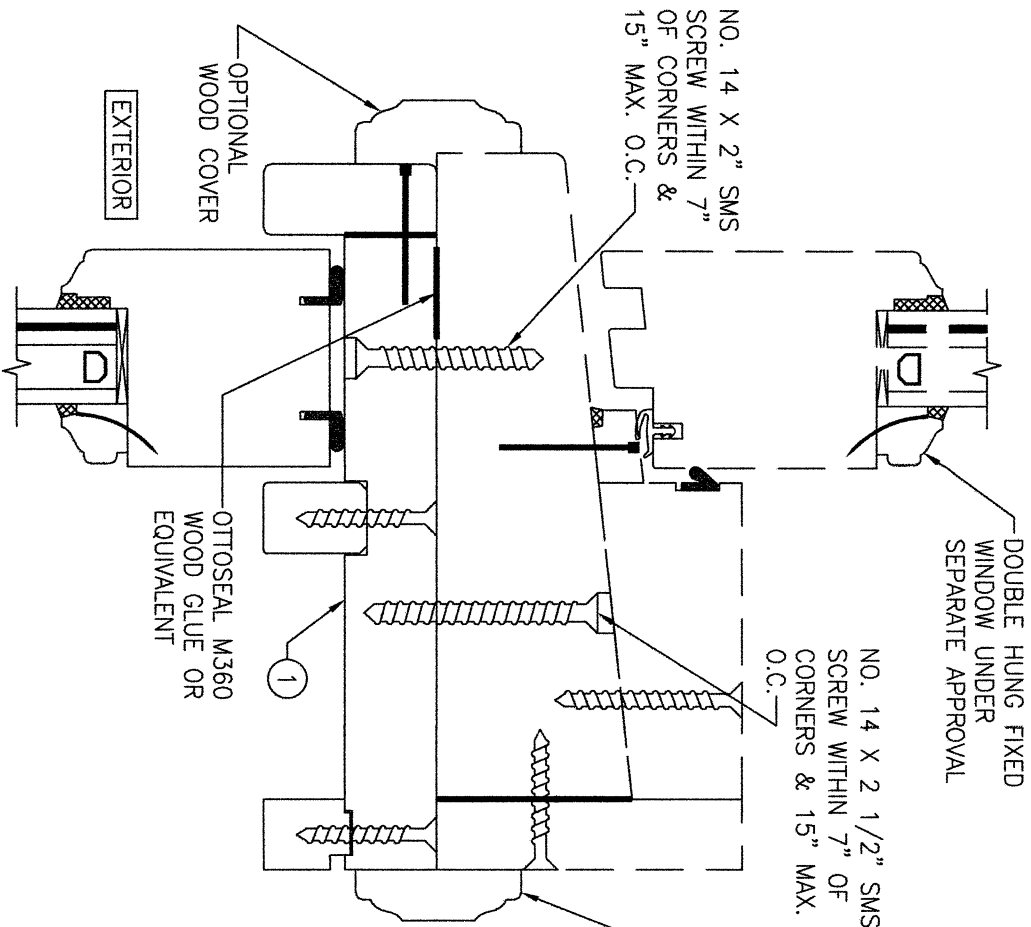
MANUFACTURER  
**TISCHLER UND SOHN (USA) LTD.**  
SIX SUBURBAN AVENUE  
STAMFORD, CONNECTICUT  
203-674-0600

DRAWING TITLE **SINGLE & DOUBLE HUNG CONCEALED BALANCE SYSTEM  
IMPACT WINDOW**

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

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

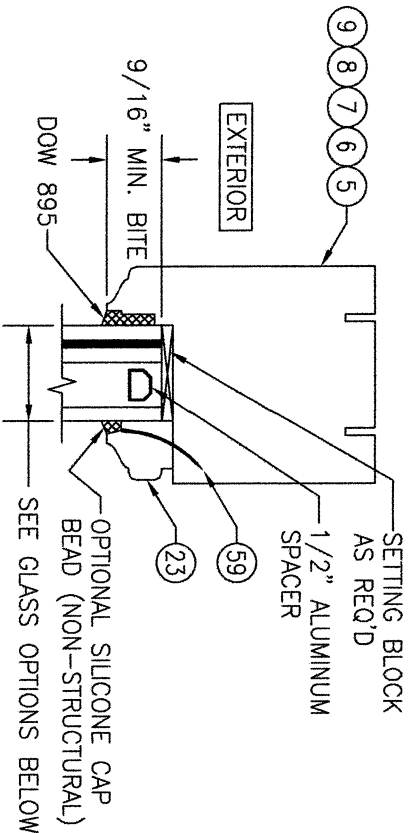
DRAWING NO. 1827  
SHEET NO. 3 OF 7



SECTION D

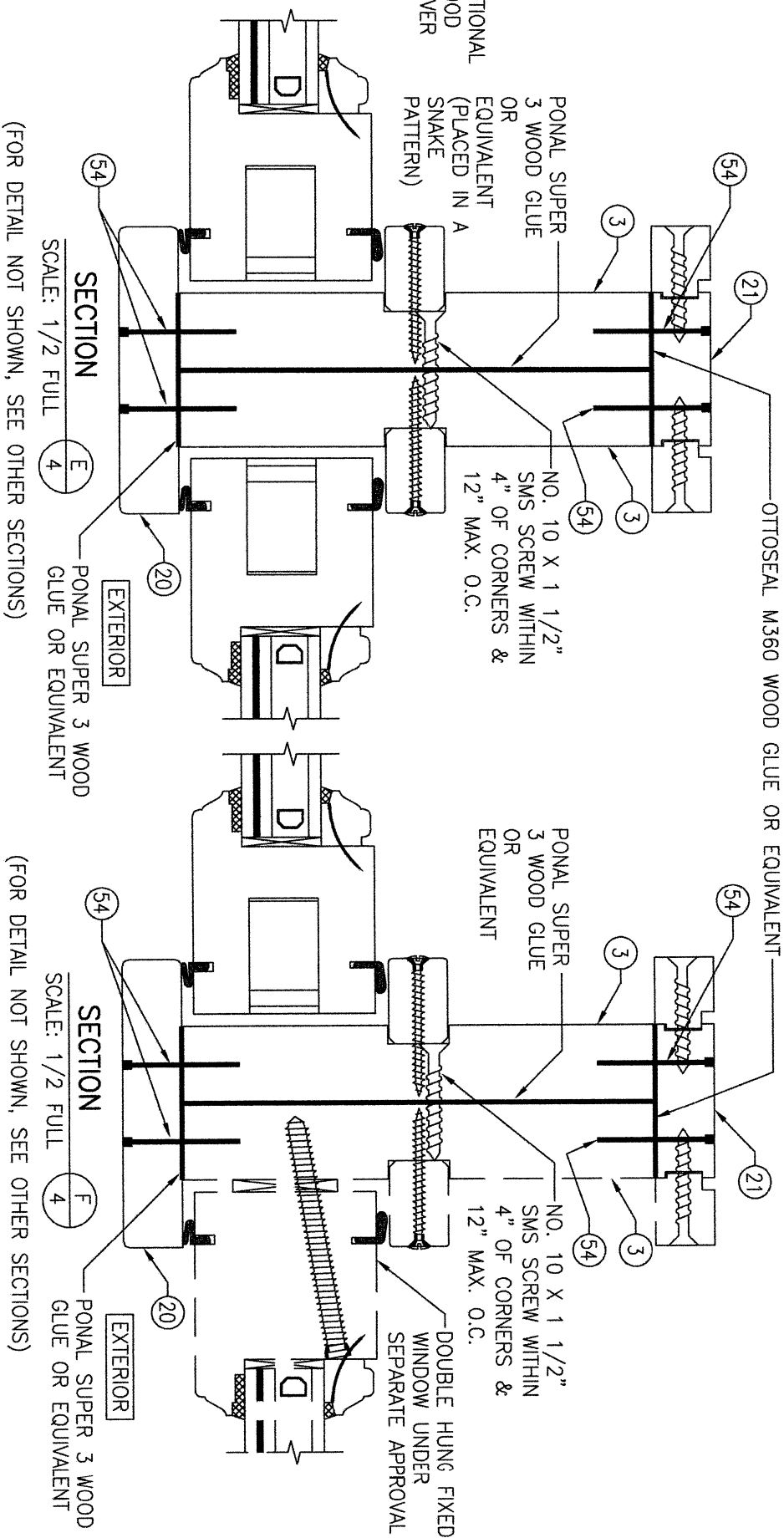
SCALE: 1/2 FULL

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



TYPICAL GLAZING DETAIL

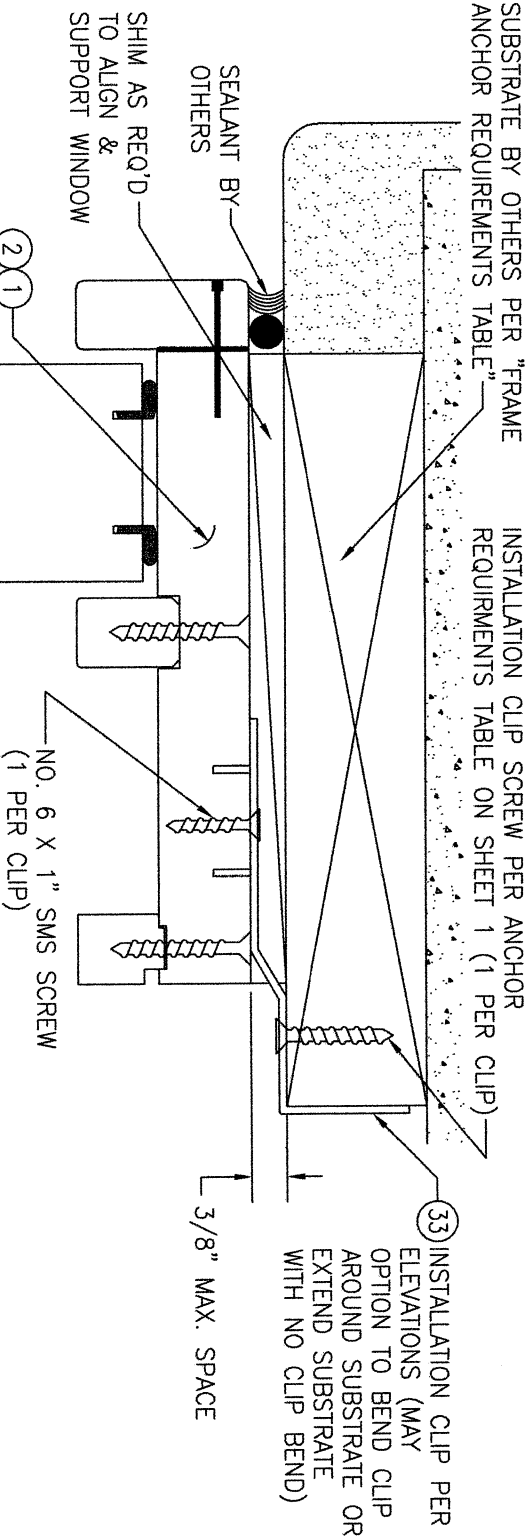
GLASS OPTION 1: 1 1/8" LAMINATED I.G. (3/16" AN./0.075" EASTMAN CHEM. CO. SAFLEX CP/3/16" AN. EXTERIOR; 1/2" AIR SPACE/3/16" AN. INTERIOR)  
GLASS OPTION 2: 1 1/8" LAMINATED I.G. (3/16" AN./0.075" EASTMAN CHEM. CO. SAFLEX CP/3/16" AN. EXTERIOR; 1/2" AIR SPACE/3/16" TEMP. INTERIOR)  
GLASS OPTION 3: 1 1/8" LAMINATED I.G. (3/16" HT. ST./0.075" EASTMAN CHEM. CO. SAFLEX CP/3/16" HT. ST. EXTERIOR; 1/2" AIR SPACE/3/16" TEMP. INTERIOR)



SECTION F

SCALE: 1/2 FULL

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL INSTALLATION CLIP DETAIL

(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

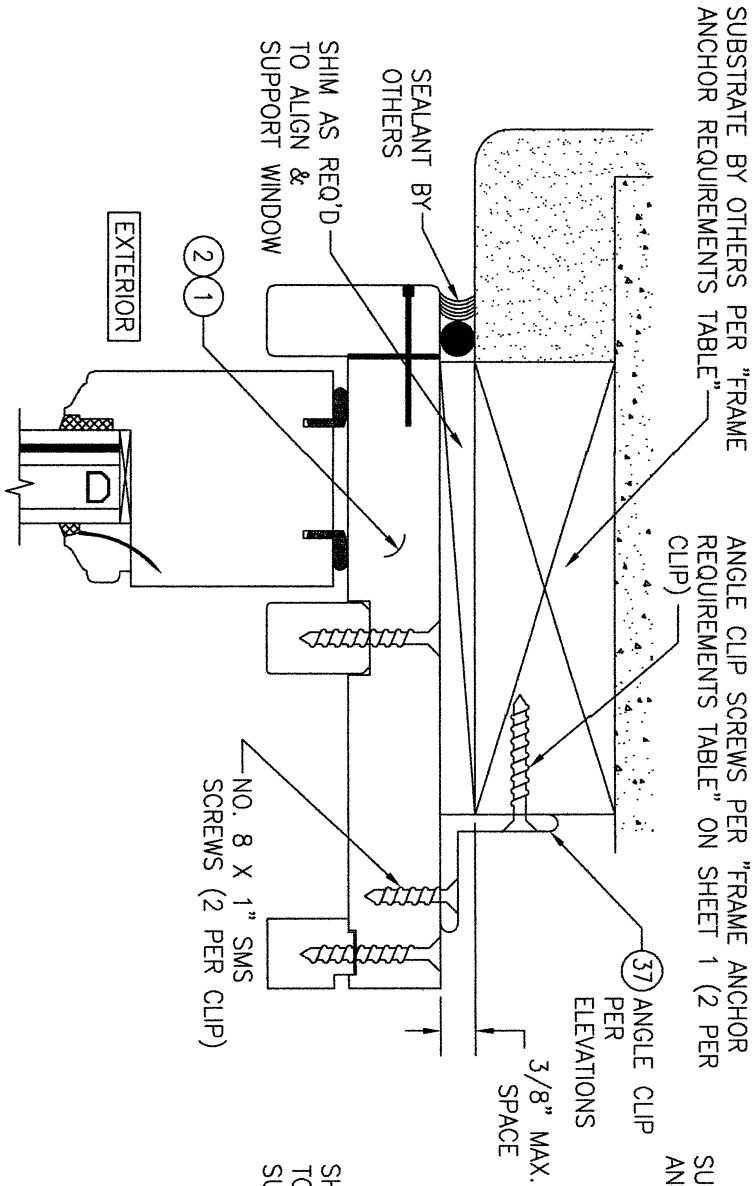
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MANUFACTURER  
**TISCHLER UND SOHN (USA) LTD.**  
SIX SUBURBAN AVENUE  
STAMFORD, CONNECTICUT  
203-674-0600

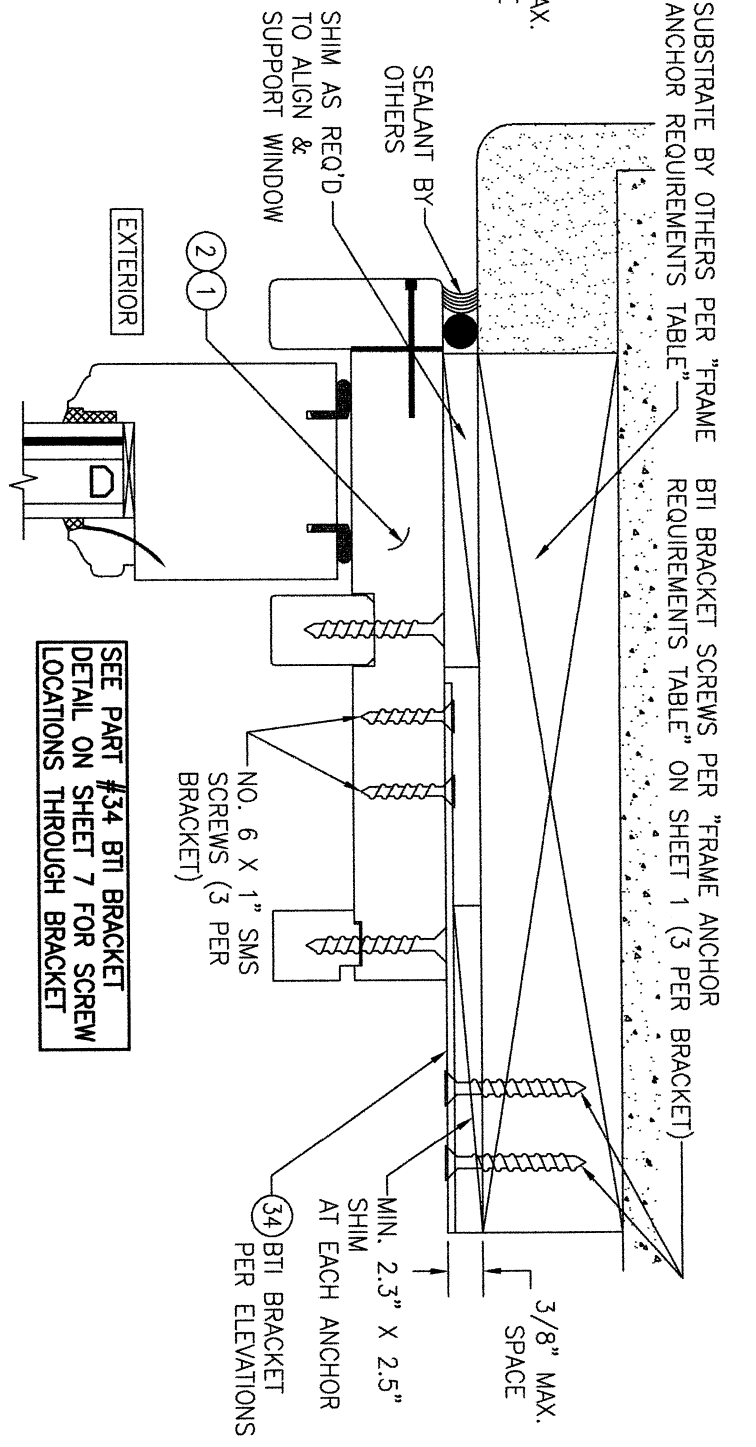
CONSULTANTS  
**W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)**  
7480 150TH COURT NORTH  
PALM BEACH GARDENS, FL 33418  
PHONE: 561-744-3424

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

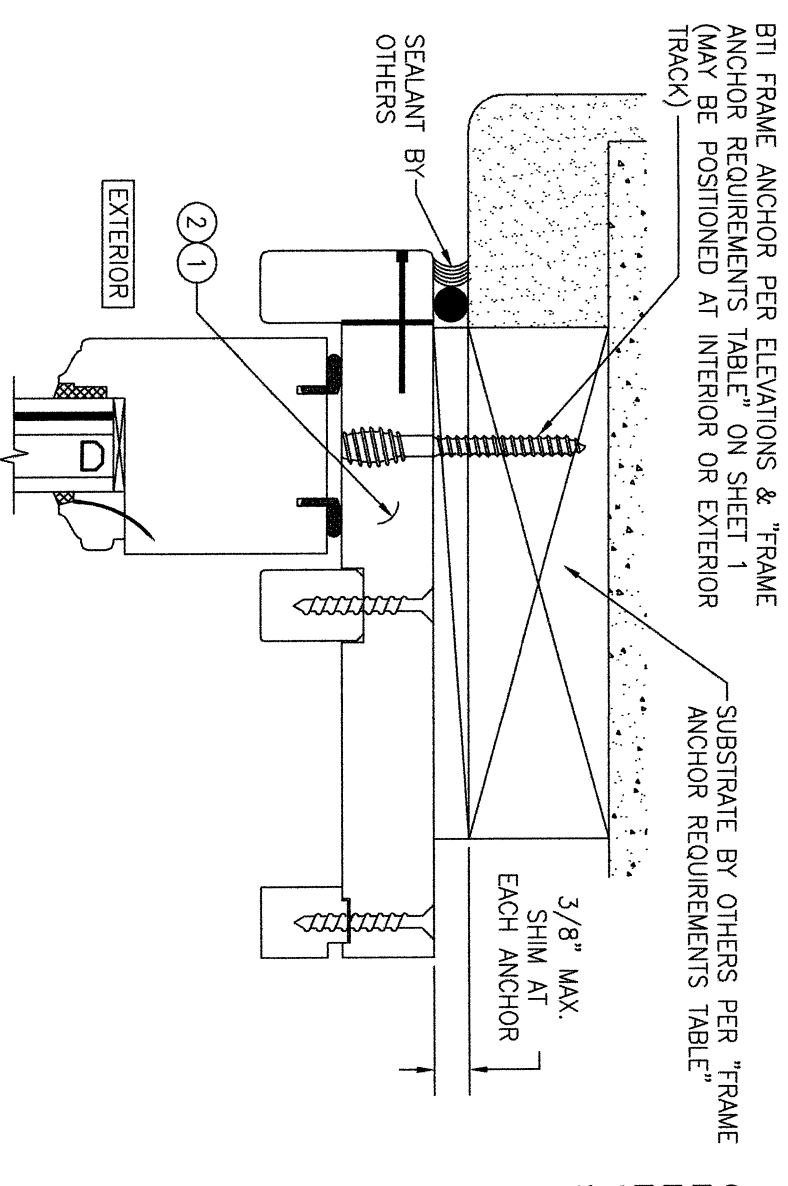
DRAWING NO. **1827** REV. **C**  
SHEET NO. **4** OF **7**



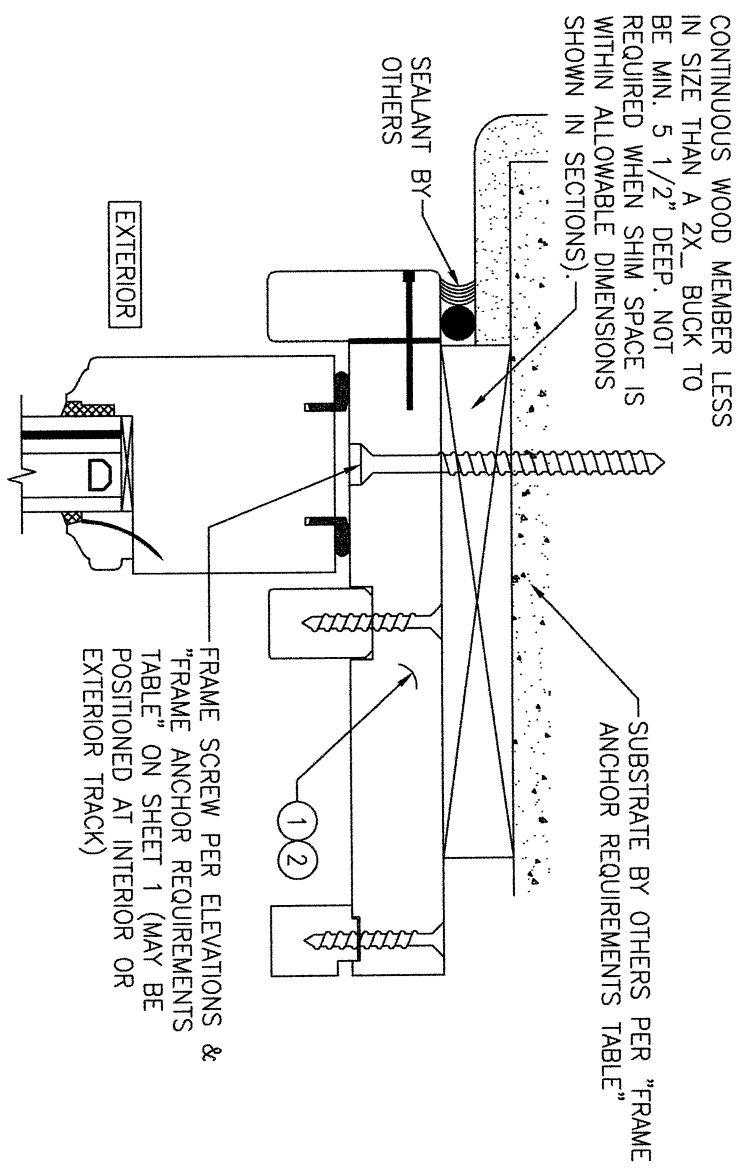
**OPTIONAL ANGLE CLIP INSTALLATION DETAIL**  
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



**OPTIONAL BTI BRACKET INSTALLATION DETAIL**  
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



**OPTIONAL BTI SCREW DETAIL**  
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

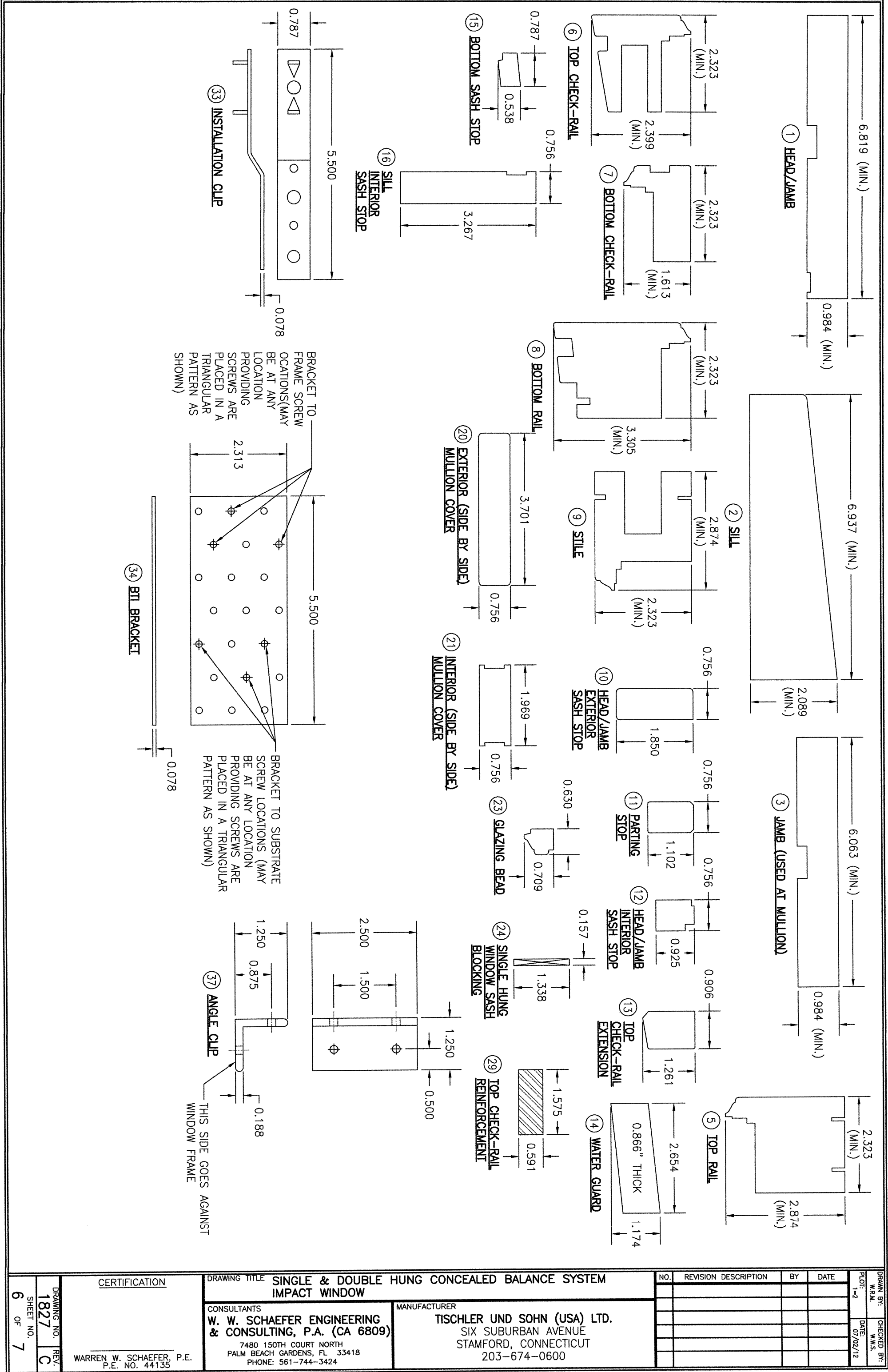


**OPTIONAL DIRECT MOUNT DETAIL  
TO SUBSTRATE WITH SPACER**  
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

| DRAWN BY: W.M.M. |                      | CHECKED BY: W.M.S. |          |
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| NO.              | REVISION DESCRIPTION | BY                 | DATE     |
| 1-2              |                      |                    | 07/02/12 |
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| DRAWING TITLE                                                                                                                               |  | MANUFACTURER                                                                                 |  |
|---------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------|--|
| SINGLE & DOUBLE HUNG CONCEALED BALANCE SYSTEM<br>IMPACT WINDOW                                                                              |  | TISCHLER UND SOHN (USA) LTD.<br>SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT<br>203-674-0600 |  |
| CONSULTANTS                                                                                                                                 |  |                                                                                              |  |
| W. W. SCHAEFER ENGINEERING<br>& CONSULTING, P.A. (CA 6809)<br>7480 150TH COURT NORTH<br>PALM BEACH GARDENS, FL 33418<br>PHONE: 561-744-3424 |  |                                                                                              |  |

| CERTIFICATION                              |        |
|--------------------------------------------|--------|
| WARREN W. SCHAEFER, P.E.<br>P.E. NO. 44135 |        |
| DRAWING NO. 1827                           | REV. C |
| SHEET NO. 5                                | OF 7   |



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| DRAWN BY: | W.R.M. | CHECKED BY: | W.M.S.   |
| PLOT:     | 1-2    | DATE:       | 07/02/12 |

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|                                                         |  |                                               |  |
|---------------------------------------------------------|--|-----------------------------------------------|--|
| DRAWING TITLE                                           |  | SINGLE & DOUBLE HUNG CONCEALED BALANCE SYSTEM |  |
|                                                         |  | IMPACT WINDOW                                 |  |
| CONSULTANTS                                             |  | MANUFACTURER                                  |  |
| W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) |  | TISCHLER UND SOHN (USA) LTD.                  |  |
| 7480 150TH COURT NORTH                                  |  | SIX SUBURBAN AVENUE                           |  |
| PALM BEACH GARDENS, FL 33418                            |  | STAMFORD, CONNECTICUT                         |  |
| PHONE: 561-744-3424                                     |  | 203-674-0600                                  |  |

|                          |        |
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| CERTIFICATION            |        |
| WARREN W. SCHAEFER, P.E. |        |
| P.E. NO. 44135           |        |
| DRAWING NO.              | 1827   |
| SHEET NO.                | 6 OF 7 |
| REV.                     | C      |

| ITEM #           | ITEM DESCRIPTION                      | MANUFACTURER/NOTES                     |
|------------------|---------------------------------------|----------------------------------------|
| PARTS            |                                       |                                        |
| 1                | HEAD/JAMB                             | WOOD                                   |
| 2                | SILL                                  | WOOD                                   |
| 3                | JAMB (USED AT MULLION)                | WOOD                                   |
| 5                | TOP RAIL                              | WOOD                                   |
| 6                | TOP CHECK-RAIL                        | WOOD                                   |
| 7                | BOTTOM CHECK-RAIL                     | WOOD                                   |
| 8                | BOTTOM RAIL                           | WOOD                                   |
| 9                | STILE                                 | WOOD                                   |
| 10               | HEAD/JAMB EXTERIOR SASH STOP          | WOOD                                   |
| 11               | PARTING STOP                          | WOOD                                   |
| 12               | HEAD/JAMB INTERIOR SASH STOP          | WOOD                                   |
| 13               | TOP CHECK-RAIL EXTENSION              | WOOD                                   |
| 14               | WATER GUARD                           | WOOD                                   |
| 15               | BOTTOM SASH STOP                      | WOOD                                   |
| 16               | SILL INTERIOR SASH STOP               | WOOD                                   |
| 20               | EXTERIOR (SIDE BY SIDE) MULLION COVER | WOOD                                   |
| 21               | INTERIOR (SIDE BY SIDE) MULLION COVER | WOOD                                   |
| 23               | GLAZING BEAD                          | WOOD                                   |
| 24               | SINGLE HUNG WINDOW SASH BLOCKING      | WOOD                                   |
| 29               | TOP CHECK-RAIL REINFORCEMENT          | 34 KSI STAINLESS STEEL OR A36 STEEL    |
| 33               | INSTALLATION CLIP                     | GALVANIZED 54 KSI STEEL                |
| 34               | BTI BRACKET                           | GALVANIZED 54 KSI STEEL                |
| 37               | ANGLE CLIP                            | 6061-T6 ALUMINIUM                      |
| HARDWARE         |                                       |                                        |
| 41               | SASH LOCK & KEEPER                    | PHELPS LKF-14                          |
| 42               | CONCEALED BALANCE                     | PHELPS H583 TO H-590                   |
| SEALS & SEALANTS |                                       |                                        |
| 46               | WEATHERSTRIP                          | SCHLEGEL QWS-250                       |
| 47               | WEATHERSTRIP                          | SCHLEGEL QFS-375                       |
| 48               | SILL WEATHERSTRIP                     | DEVENTER S6961                         |
| 49               | WEATHERSTRIP                          | SCHLEGEL QL-3055                       |
| FASTENERS        |                                       |                                        |
| 53               | NO. 8 X 1 1/2" SMS OR WOOD SCREW      | WITHIN 2" FROM CORNERS & 12" MAX. O.C. |
| 54               | 18 GA. X 1 1/2" S.S. BRAD NAIL        | WITHIN 2" FROM CORNERS & 12" MAX. O.C. |
| 55               | NO. 8 X 3/4" SMS OR WOOD SCREW        | 2 PER EACH SASH LOCK AND KEEPER        |
| 58               | NO. 14 X 3 1/8" BAUTEC WOOD SCREW     | WITHIN 4" FROM CORNERS & 12" MAX. O.C. |
| 59               | 18 GA. X 1 1/2" S.S. CURVED NAIL      | WITHIN 4" FROM CORNERS & 12" MAX. O.C. |

NOTE: WOOD USED IN TESTING WAS SIPO MAHOGANY WITH A SPECIFIC GRAVITY OF G = 0.63 AND A MODULUS OF ELASTICITY OF E = 1,560,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.63 AND MODULUS OF ELASTICITY OF 1,560,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY TISCHLER UND SOHN TO SELECT.

|                  |                      |                    |      |
|------------------|----------------------|--------------------|------|
| DRAWN BY: W.R.M. |                      | CHECKED BY: W.M.S. |      |
| PLOT: 1-2        | DATE: 07/02/12       |                    |      |
| NO.              | REVISION DESCRIPTION | BY                 | DATE |
|                  |                      |                    |      |
|                  |                      |                    |      |
|                  |                      |                    |      |
|                  |                      |                    |      |
|                  |                      |                    |      |

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CERTIFICATION

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P.E. NO. 44135