



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

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

United Enertech Holdings, LLC
3005 South Hickory Street
Chattanooga, TN 37407

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: Model D-HV-9 Aluminum Louver System

APPROVAL DOCUMENT: Drawing No. **23-071**, titled "Model D-HV-9 Horizontal Louver System (EL-4) as front decorative cover to approved Model WDV-130 Vertical (L.M.I.) Aluminum Louver System", sheets 1 through 11 of 11, dated 07/07/2023, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LABELING: A permanent label with the manufacturer's name or logo, Chattanooga, TN or Hartford, AL, model/series, and following statement: "Miami-Dade County Product Control Approved", is to be located on each unit.

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 **revises** NOA # **21-0216.02** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



NOA No. 23-0815.05
Expiration Date: May 6, 2026
Approval Date: October 5, 2023
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOAs and new

A. DRAWINGS

1. Drawing No. **23-071**, titled “Model D-HV-9 Horizontal Louver System (EL-4) as front decorative cover to approved Model WDV-130 Vertical (L.M.I.) Aluminum Louver System”, sheets 1 through 11 of 11, dated 07/07/2023, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.

B. TESTS “Submitted under NOA # 21-0216.02”

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model D-HV-9 Aluminum Louver Systems, prepared by Intertek, Test Report No. **L4545.01-550-18 R1**, dated 01/04/2021, with revision dated 01/15/2021, signed and sealed by Vinu J. Abraham, P.E.

“Submitted under NOA # 20-0109.02”

2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94 (Level “E”, 80 fps)
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model WDV-130 Vertical Aluminum Louver Systems, prepared by PRI Construction Materials Technologies LLC, Test Report No. **1697T0001.01.01**, dated 11/20/2019, signed and sealed by Zachary Priest, P.E. on 01/27/2020.
3. Test Report on High Velocity Wind Driven Rain Resistance Test per ANSI/AMCA 550-15 of a Model WDV-130 Vertical Aluminum Louver System, prepared by PRI Construction Materials Technologies LLC, Report No. **1697T0001.02**, dated 10/16/2019, signed and sealed by Zachary Priest, P.E.

C. CALCULATIONS “Submitted under NOA # 21-0216.02”

1. Structural analysis and anchor calculations, prepared by Tilteco, Inc, dated 02/01/2021, signed and sealed by Walter A. Tillit Jr., P.E.
2. Structural analysis and anchor calculations, prepared by Tilteco, Inc, dated 09/30/2019, signed and sealed by Walter A. Tillit Jr., P.E. **“Submitted under NOA # 20-0109.02”**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS “Submitted under NOA # 20-0109.02”

1. Test Report on Large Missile Impact (Level “E”, 80 fps) Test per ANSI/AMCA 540-13 and Cyclic Wind Pressure Loading per FBC, TAS 203-94 of Model WDV-130 Vertical Aluminum Louver Systems, prepared by PRI Construction Materials Technologies LLC, Report No. **1697T0001.03**, dated 11/20/2019, signed and sealed by Zachary Priest, P.E.

F. STATEMENTS

1. Statement letter of code conformance to the 8th edition (2023) of the FBC, issued by Tilteco, Inc., dated 07/07/2023, signed and sealed by Walter A. Tillit Jr., P.E.

“Submitted under NOA # 21-0216.02”

2. Statement letter of code conformance to the 7th edition (2020) of the FBC issued by Tilteco, Inc., dated 01/13/2021, signed and sealed by Walter A. Tillit Jr., P.E.
3. Statement letter of no financial interest letter issued by Tilteco, Inc., dated 01/13/2021, signed and sealed by Walter A. Tillit Jr., P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 23-0815.05

Expiration Date: May 6, 2026
Approval Date: October 5, 2023

MODEL D-HV-9 CONSISTING OF THE INSTALLATION OF HORIZONTAL LOUVER SYSTEM (EL-4) AS FRONT DECORATIVE COVER
TO REAR APPROVED MODEL WDV-130 VERTICAL LARGE MISSILE IMPACT RESISTANT ALUM. LOUVER SYSTEM

GENERAL NOTES

1. MODEL D-HV-9 CONSISTING OF THE INSTALLATION OF HORIZONTAL LOUVER SYSTEM (EL-4) AS FRONT DECORATIVE OVER TO REAR APPROVED MODEL WDV-130 VERTICAL LARGE MISSILE IMPACT RESISTANT ALUM. LOUVER SYSTEM SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) AND 2020 (7th EDITION) OF THE FLORIDA BUILDING CODE. THIS ALUMINUM LOUVER SYSTEM MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (H.V.H.Z).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7-22 (FBC 2023) AND ASCE 7-16 (FBC 2020) AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATING INDICATED ON THIS SHEET.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 OR ASCE 7-16 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATING INDICATED ON THIS SHEET.

MODEL D-HV-9 CONSISTING OF THE INSTALLATION OF HORIZONTAL LOUVER SYSTEM (EL-4) AS FRONT DECORATIVE COVER TO REAR APPROVED MODEL WDV-130 VERTICAL LARGE MISSILE IMPACT RESISTANT ALUM. LOUVER SYSTEM ADEQUACY FOR WIND AND FATIGUE DUE TO WING RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER INTERTEK TESTING LAB REPORT # L4545.01-550-18R0, AS PER TAS-202, TAS-203 FOR (EL-4) SYSTEM & AS PER TAS 201, 202, 203 AND AMCA 540 FOR WDV-130 REAR APPROVED SYSTEM UNDER SEPARATE NOA.

2. ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T5 ALLOY AS PER BILL OF MATERIALS ON SHEET 2.
3. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 SERIES WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH OR CORROSION RESISTANT CARBON STEEL AS PER DIN 50018 AND SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.
4. ANCHOR (10) USED FOR CONNECTION TO EXISTING STRUCTURE SHALL BE AS FOLLOWS (SEE SHEETS 6 THRU 9 FOR DETAILS).

ANCHOR SHALL BE INSTALLED FOLLOWING ALL THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHORS MANUFACTURER. E.D. IS BEYOND ANY WALL FINISH. LAG SCREWS SHALL COMPLY WITH 2018 NDS.

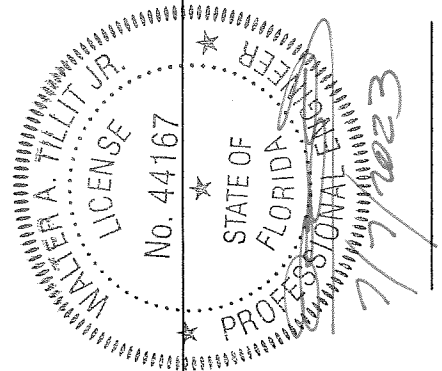
| ANCHOR TYPE | MANUFACTURER | DIAMETER OR GAGE | MIN. EMBEDMENT | | | | MIN. EDGE DISTANCE (E.D.) | | |
|-------------|--------------|------------------|----------------------------------|----------------------------------------------------------|-----------------------------------|--------------------|------------------------------------|-------|--------|
| | | | TO CONCRETE (f'c=3,000 psi) MIN. | TO CONCRETE BLOCK ASTM (C-90 UNIT) (f'c=1.5 ksi) GROUTED | 1/4" MIN. (Fy=36ksi) GALV. STEEL | TO WOOD (G ≥ 0.55) | CONCRETE OR GROUTED CONCRETE BLOCK | STEEL | WOOD |
| SCREW-BOLT | DEWALT | 3/8" | 3 1/4" | 3 1/4" | N/A | N/A | 1 1/2" | N/A | N/A |
| LAG SCREW | - | 3/8" | N/A | N/A | N/A | 1 1/2" | N/A | N/A | 1 1/2" |
| TAP-FLEX | ELCO CONST. | 3/8" | N/A | N/A | FULLY EMB. PLUS 3 THREADS BEYOND. | N/A | N/A | 3/4" | N/A |

5. MODEL D-HV-9 CONSISTING OF THE INSTALLATION OF HORIZONTAL LOUVER SYSTEM (EL-4) AS FRONT DECORATIVE COVER TO REAR APPROVED MODEL WDV-130 VERTICAL LARGE MISSILE IMPACT RESISTANT ALUM. LOUVER SYSTEM MAY BE INSTALLED IN LOCATIONS WHERE THE ROOM BEHIND IS NOT DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM, OR THE ROOM WILL HOUSE NON-WATER RESISTANT EQUIPMENT. COMPONENTS OR SUPPLIES INSTALLATION ON LOUVER IS LIMITED TO 40 FT. IN HEIGHT ACCORDING TO TABLE 3 OF TAS 100(A)-95.
6. ALUMINUM MEMBERS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 & 2015 ALUMINUM DESIGN MANUAL.

7. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE LOUVER SYSTEM IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.
8. (A). THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.
- (B). CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (C). THIS PRODUCT APPROVAL DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.
- (D). SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D.
- (E). ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.
9. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1703.5 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

A.S.D. DESIGN PRESSURE RATING:
+150, -150 psf.

THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0815.05
Expiration Date 05/06/2026
By *[Signature]*
Miami-Dade Product Control

MIAMI DADE COUNTY

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6555 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
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CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

MODEL D-HV-9 HORIZONTAL LOUVER SYSTEM (EL-4) AS FRONT DECORATIVE COVER TO APPROVED MODEL WDV-130 VERTICAL L.M. IMPACT RESISTANT ALUM. LOUVER SYSTEM


United Enertech
3005 South Hickory St.
Chattanooga, TN 37407

| REV. NO | DESCRIPTION | DATE |
|---------|-------------|----------|
| 1 | OLD 20-243 | 7/7/2023 |
| 2 | | |

| | |
|----------------|----------------|
| Y.M. DRAWN BY: | 7/7/2023 DATE: |
| 23-071 | |
| DRAWING No. | |
| SHEET 1 OF 11 | |

BILL OF MATERIALS

| COMPONENT # | DESCRIPTION | MATERIAL | NOTES | USE AT MODEL | |
|-------------|--------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------|-------|
| | | | | REAR | FRONT |
| ① | HEAD | 6063-T5 ALUMINUM ALLOY/TEMPER | CONTINUOUS | WDV-130 | - |
| ② | SILL | 6063-T5 ALUMINUM ALLOY/TEMPER | CONTINUOUS USE W/ ⑧ | WDV-130 | - |
| ③ | SIDE JAMB | 6063-T5 ALUMINUM ALLOY/TEMPER | CONTINUOUS | WDV-130 | - |
| ④ | BIRD SCREEN FRAME | 6063-T5 ALUMINUM ALLOY/TEMPER | OPTIONAL | WDV-130 | - |
| ⑤ | BLADE | 6063-T5 ALUMINUM ALLOY/TEMPER | - | WDV-130 | - |
| ⑥ | BLADE BRACE | 6063-T5 ALUMINUM ALLOY/TEMPER | 2" LONG | WDV-130 | - |
| ⑥A | BLADE BRACE STRIP | 6063-T5 ALUMINUM ALLOY/TEMPER | CONTINUOUS ACROSS UNIT | WDV-130 | EL-4 |
| ⑦ | OPTIONAL BIRD SCREEN | 3/4" x 0.051" FLATTENED ALUMINUM | OPTIONAL | WDV-130 | - |
| ⑧ | SILL BAFFLE | 3003 H14 ALUMINUM ALLOY/HARDNESS | CONTINUOUS USE W/ ② | WDV-130 | - |
| ⑨ | FLANGE | 6063-T5 ALUMINUM ALLOY/TEMPER | OPTIONAL | WDV-130 | - |
| ⑩ | ANCHOR | 3/8 ø (SEE NOTE 4/1) | SEE DETAILS (SHEETS 6 THRU 9) | WDV-130 | - |
| ⑪ | HEAD/SILL MOUNTING ANGLE, JAMB BLANK-OFF | 6061-T6 ALUMINUM ALLOY/TEMPER | CONTINUOUS | WDV-130 | - |
| ⑫ | #8 x 1-1/2" HEX HEAD, ZINC PLATED S.M.S. | MIN. Fy=90 ksi | USE AT FRAME ASSEMBLY (SILL/JAMB & HEADER/JAMB | WDV-130 | EL-4 |
| ⑬ | #10 x 1-1/2" HEX HEAD, ZINC PLATED S.M.S. | - | USE (2) FOR BLADE ⑤ ATTACHMENT EA. END TO ① & ② | WDV-130 | - |
| ⑭ | 1/4 -14 x 1-1/2" HEX HEAD, ZINC PLATED TEK SCREW | - | ANGLE CLIP ATTACHMENT TO HEAD & SILL | WDV-130 | - |
| ⑮ | #10 x 3/4" HEX HEAD, ZINC PLATED TEK SCREW | - | BLADE BRACE ATTACHMENT & ⑪ ATTACHMENT | WDV-130 | - |
| ⑯ | 4" HEAD | 6063-T5 ALUMINUM ALLOY/TEMPER | - | - | EL-4 |
| ⑰ | 4" SILL | 6063-T5 ALUMINUM ALLOY/TEMPER | - | - | EL-4 |
| ⑱ | 4" SIDE JAMB (EXTERIOR) | 6063-T5 ALUMINUM ALLOY/TEMPER | - | - | EL-4 |
| ⑲ | 4" BLADE | 6063-T5 ALUMINUM ALLOY/TEMPER | - | - | EL-4 |
| ⑳ | 4" LONG BLADE BRACE | 6063-T5 ALUMINUM ALLOY/TEMPER | - | - | EL-4 |
| ㉑ | #8 X 1-1/2" HEX HEAD, S.M.S. | ZINC PLATED | USE (2) FOR BLADE ⑲ ATTACHMENT EACH ENDS TO ⑱, USE (3) FOR ⑱ CONNECTION TO ⑱ & USE (2) FOR ⑱ CONNECTION TO ⑱ | - | EL-4 |
| ㉒ | WALL EXTENSION ANGLE | ASTM A36 STEEL, GALVANIZED OR RED/BLACK OXIDE PAINTED | 4" X 4" X 1/4" ANGLE | WDV-130 | - |
| ㉓ | #10 X 1" HEX HEAD ZINC PLATED, S.M.S. | MIN. Fy=90 ksi STEEL | USE AT JAMBS CONNECTIONS ⑱ & ③ TO CREATE D-HV-9 SYSTEM | WDV-130 | EL-4 |


PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. 23-0815.05
 Expiration Date 05/06/2026
 By 
 Miami-Dade Product Control


Y.M.
DRAWN BY:
7/7/2023
DATE:

23-071
DRAWING No.
SHEET 2 OF 11

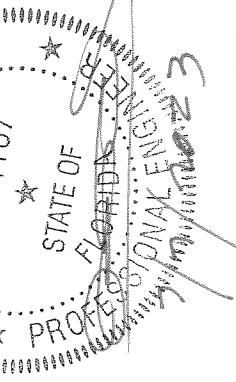
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

MODEL D-HV-9 HORIZONTAL LOUVER SYSTEM (EL-4) AS FRONT DECORATIVE COVER TO APPROVED MODEL WDV-130 VERTICAL L.M. IMPACT RESISTANT ALUM. LOUVER SYSTEM


 3005 South Hickory St.
 Chattanooga, TN 37407

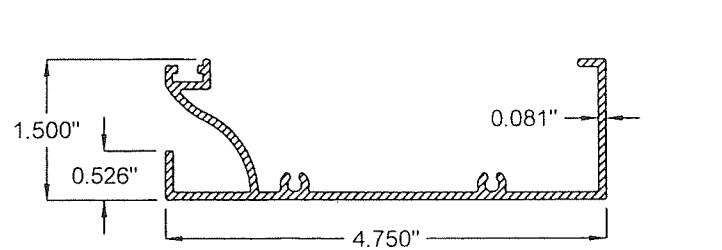

 TILLIT TESTING & ENGINEERING COMPANY
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 CA-0008719
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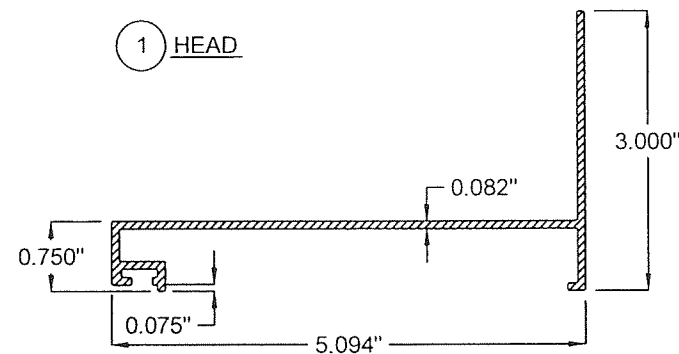


P.E. SEAL/SIGNATURE/DATE

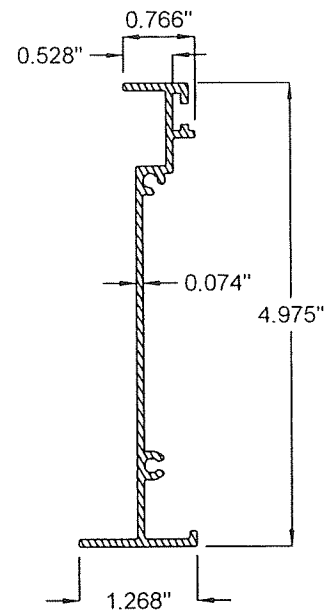
MIAMI DADE COUNTY



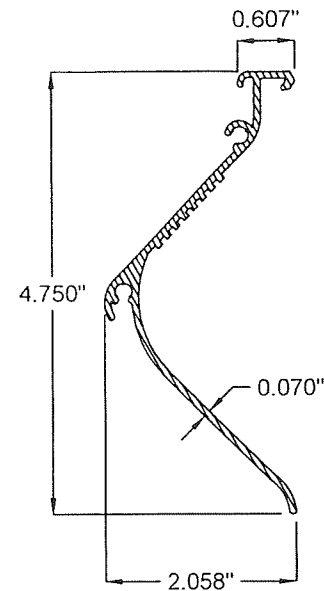
1 HEAD



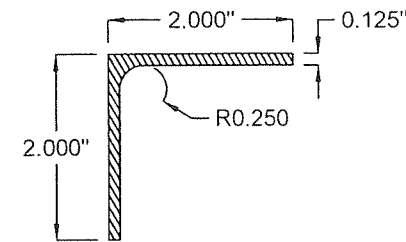
2 SILL



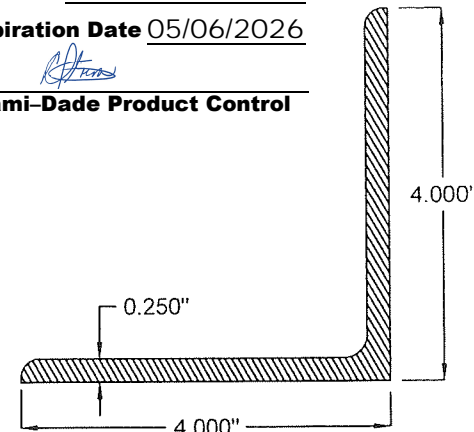
3 SIDE JAMB



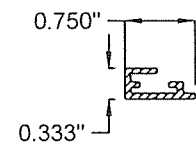
5 BLADE



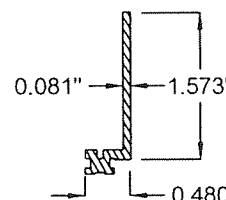
11 HEAD/SILL MOUNTING ANGLE
(DOUBLES AS JAMB BLANK-OFF)



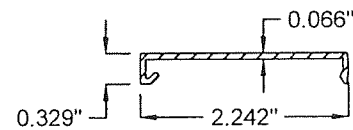
22 WALL EXTENSION ANGLE



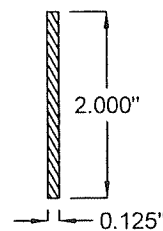
4 BIRD SCREEN FRAME



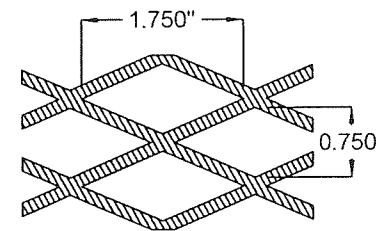
9 FLANGE



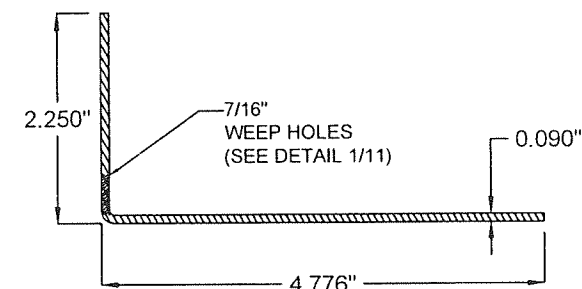
6 BLADE BRACE



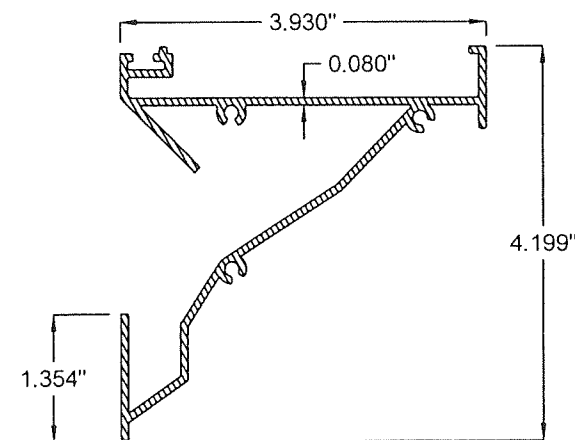
6A BLADE BRACE STRIP



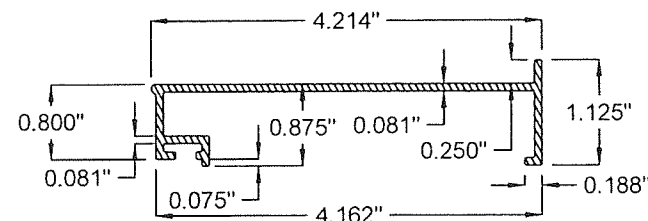
7 OPTIONAL BIRD SCREEN



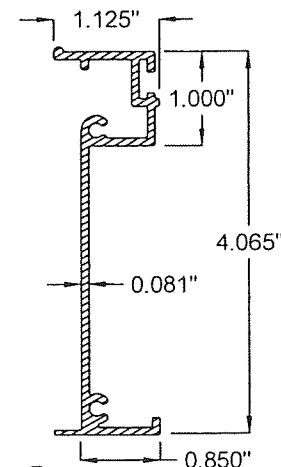
8 SILL BAFFLE



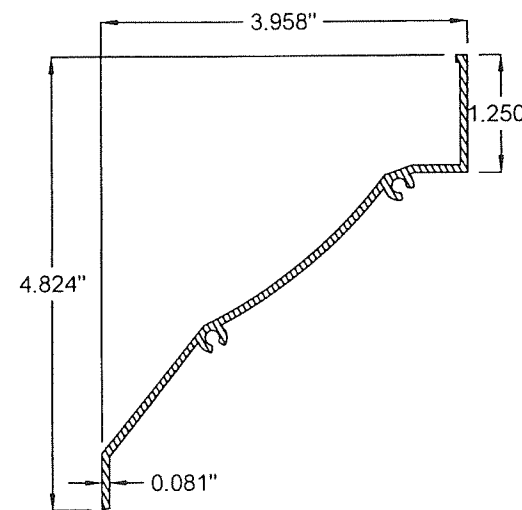
16 4" HEAD



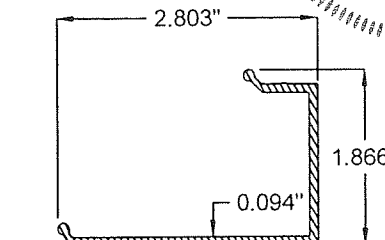
17 4" SILL



18 4" SIDE JAMB



19 4" BLADE



20 4" LONG BLADE BRACE

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0815.05

Expiration Date 05/06/2026

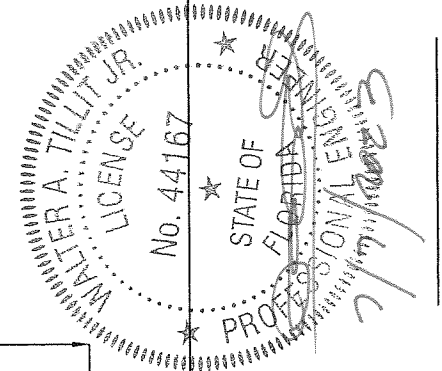
By *[Signature]*
Miami-Dade Product Control

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

MODEL D-HV-9 HORIZONTAL LOUVER SYSTEM (EL-4) AS
FRONT DECORATIVE COVER TO APPROVED MODEL WDV-130
VERTICAL L.M. IMPACT RESISTANT ALUM. LOUVER SYSTEM

United Enertech
3005 South Hickory St.
Crafftanooga, TN 37407

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)971-1530 ; Fax : (305)971-1531
CA-0006719
WALTER A. TILLIT JR. P.E.
FLORIDA Lic. # 44167

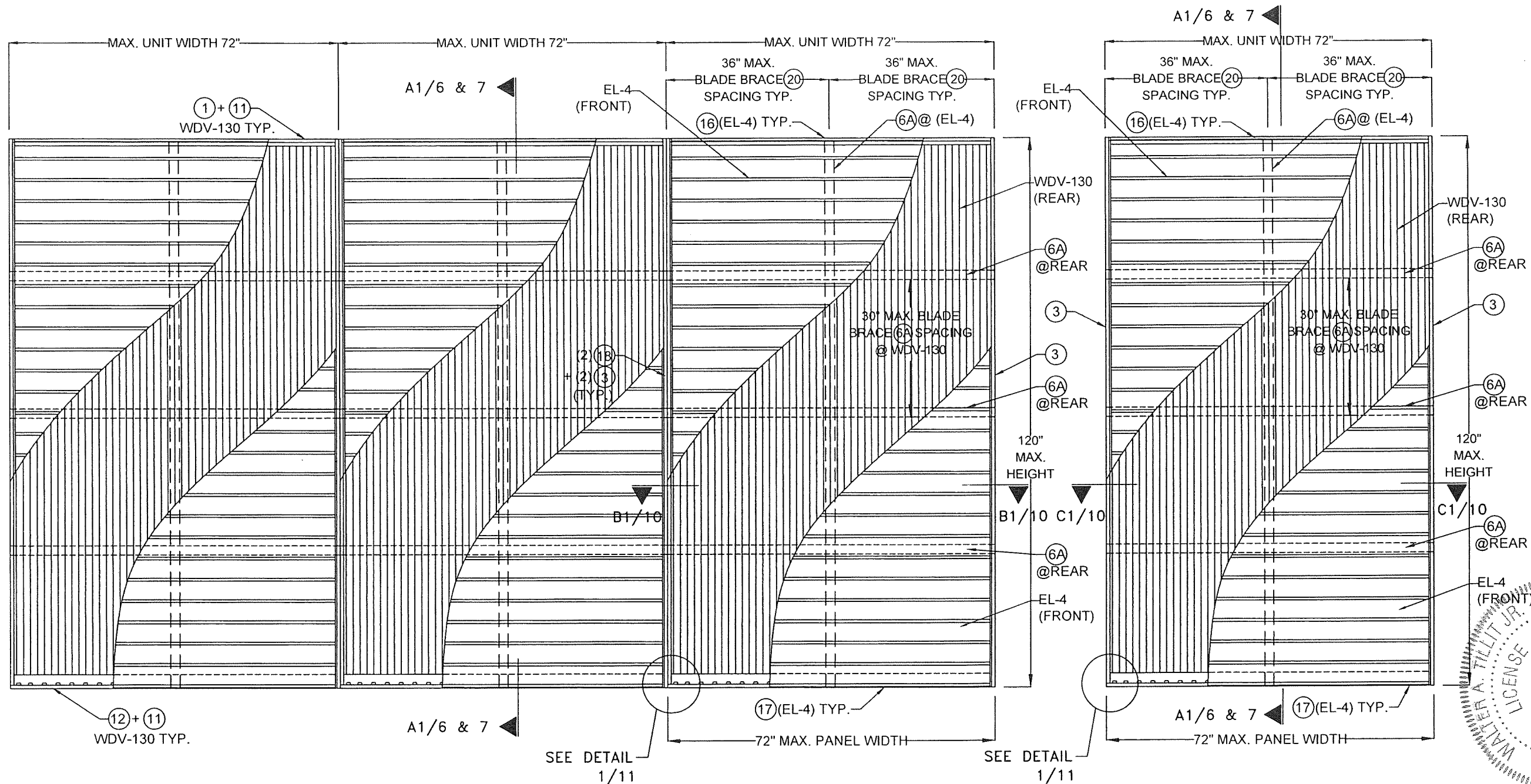


P.E. SEAL/SIGNATURE/DATE

MIAMI DADE COUNTY

COMPONENTS: WVD-130 SYSTEM
1/2"=0'-1"

COMPONENTS: DECORATIVE EL-4 SYSTEM
1/2"=0'-1"



EXTERIOR ELEVATION MULTIPLE UNITS W/ (6A) BLADE BRACE
(HORIZONTAL @ WDV-130 & VERTICAL @ EL-4)

EXTERIOR ELEVATION SINGLE UNIT W/ (6A) BLADE BRACE
(HORIZONTAL @ WDV-130 & VERTICAL @ EL-4)

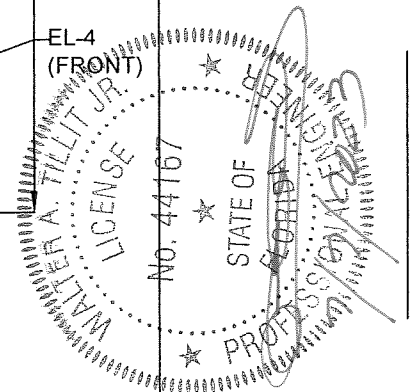
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 By
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FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

MODEL D-HV-9 HORIZONTAL LOUVER SYSTEM (EL-4) AS
 FRONT DECORATIVE COVER TO APPROVED MODEL WDV-130
 VERTICAL L.M. IMPACT RESISTANT ALUM. LOUVER SYSTEM

United Enertech
 3005 South Hickory St.
 Chattanooga, TN 37407

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 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
 Phone : (305)871-1530, Fax : (305)871-1531
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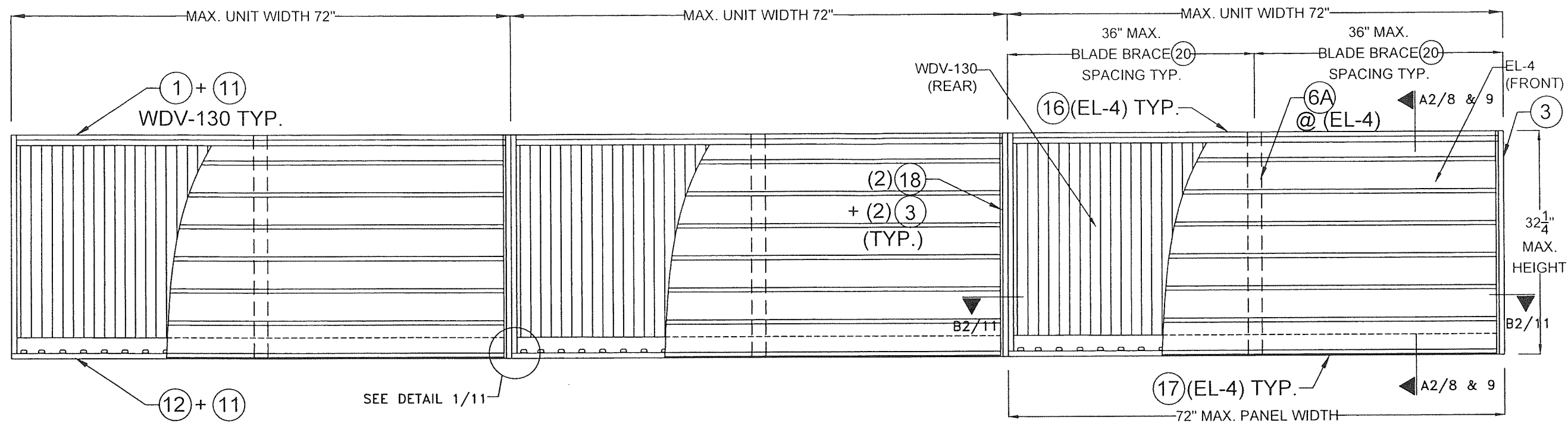
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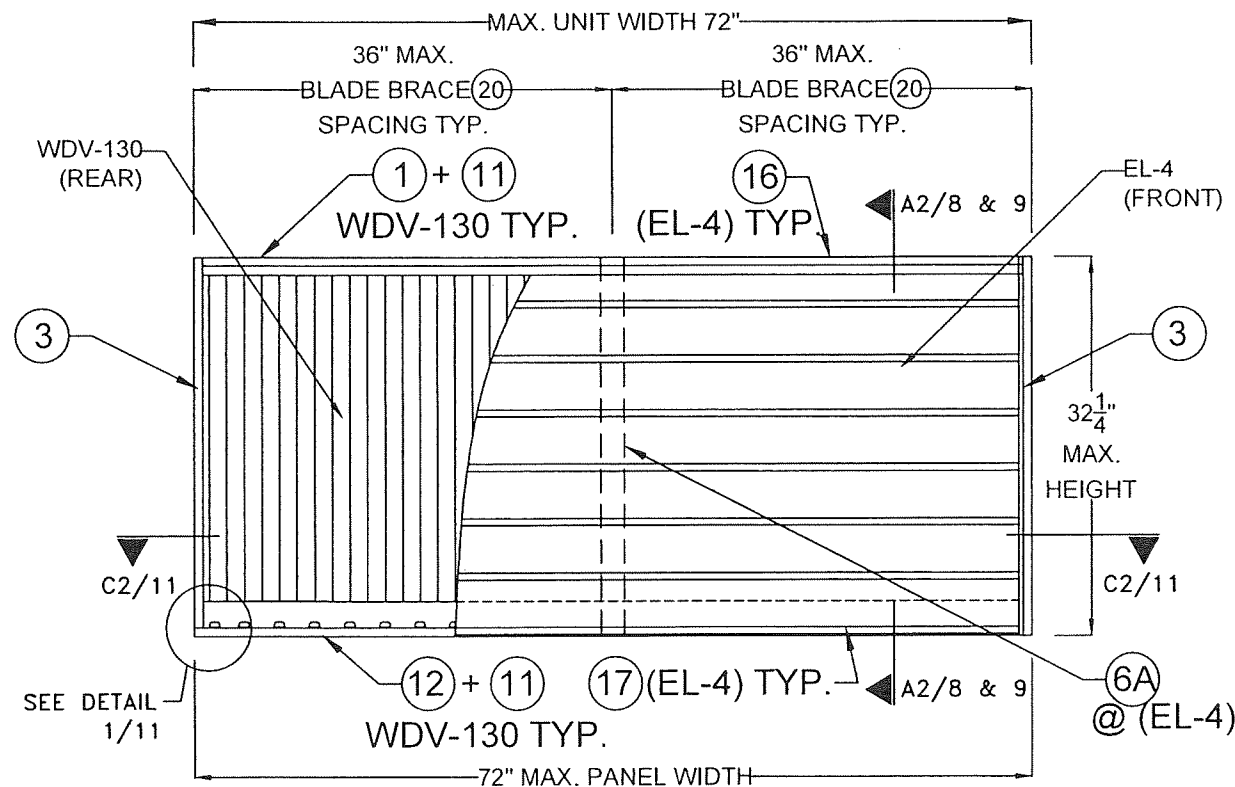
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23-071
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SHEET 4 OF 11



EXTERIOR ELEVATION MULTIPLE UNITS W/O (6A) BLADE BRACE AT WDV-130 SYSTEM
(HORIZONTAL @ WDV-130 & VERTICAL @ EL-4)



EXTERIOR ELEVATION SINGLE UNITS W/O (6A) BLADE BRACE
AT WDV-130 SYSTEM
(HORIZONTAL @ WDV-130 & VERTICAL @ EL-4)

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

MODEL D-HV-9 HORIZONTAL LOUVER SYSTEM (EL-4) AS
FRONT DECORATIVE COVER TO APPROVED MODEL WDV-130
VERTICAL L.M. IMPACT RESISTANT ALUM. LOUVER SYSTEM



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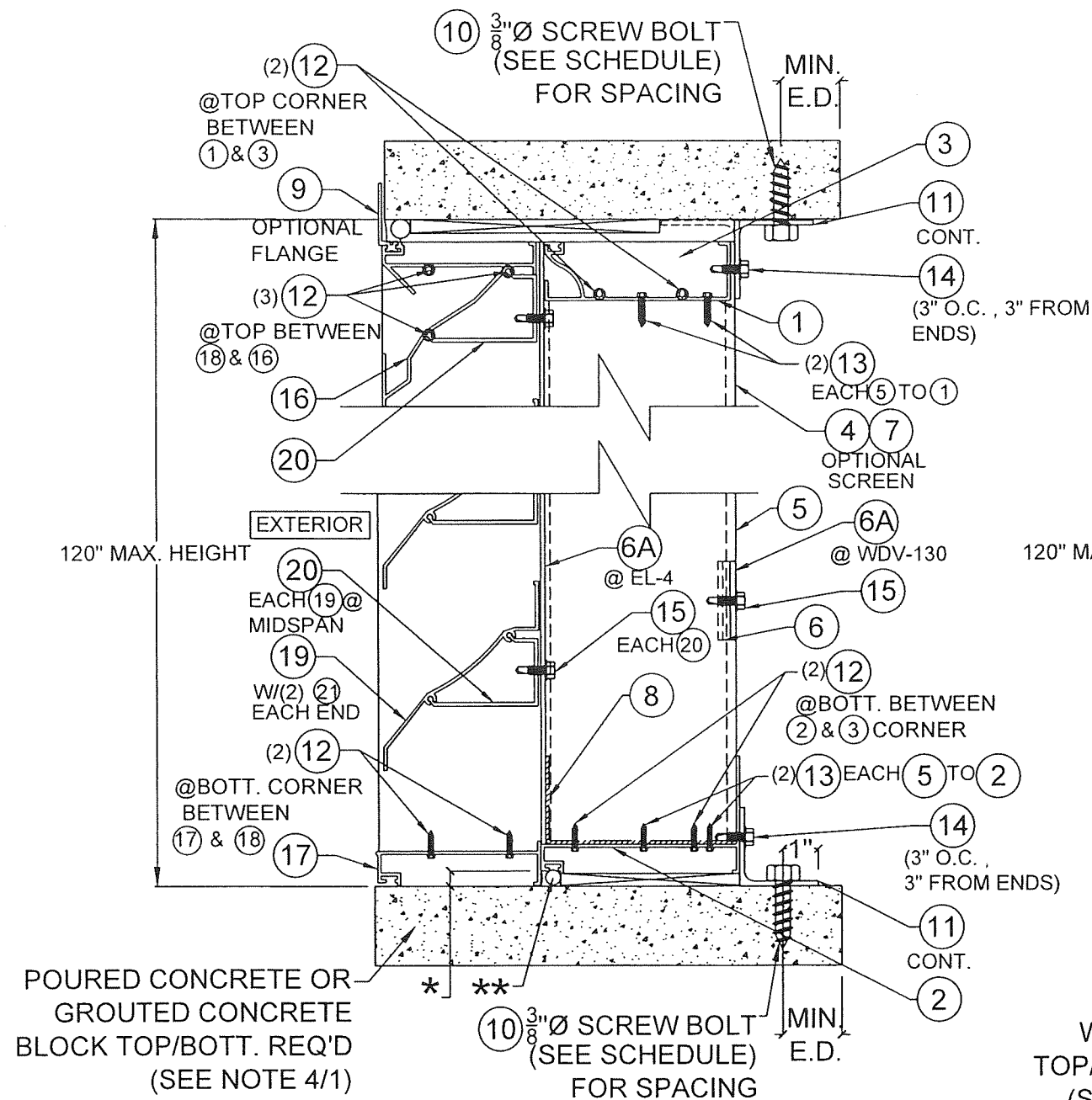
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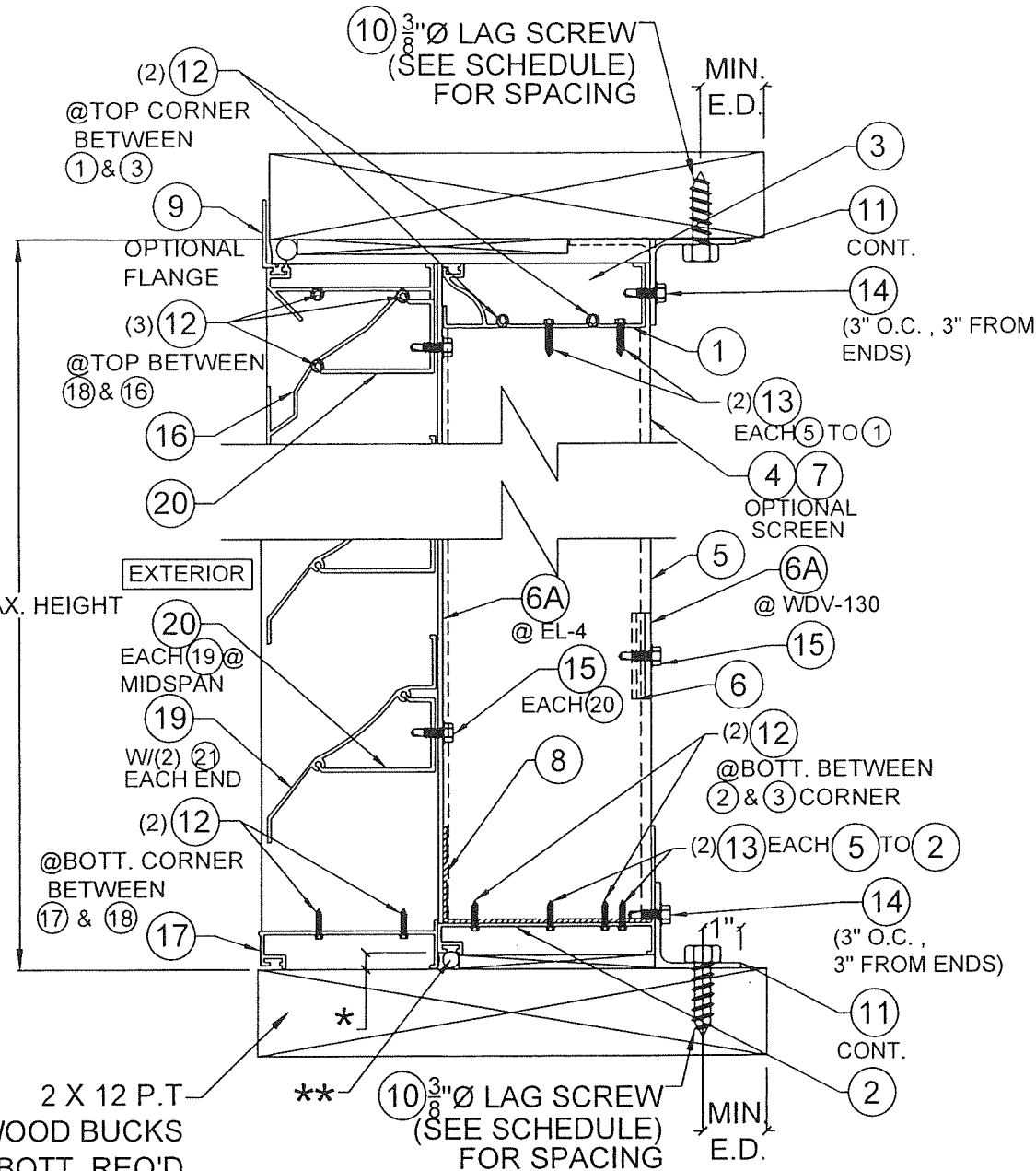
SECTION A1-A1 W/ (6A)

1/4" = 0'-1"

MAX. ANCHOR (10) SPACING SCHEDULE AS PER NOTE 4/1 AT ANGLE (11) TOP & BOTTOM

| A.S.D. DESIGN LOAD (p.s.f.) | MAX. UNIT HEIGHT (FT) | SUBSTRATE | | |
|-----------------------------|-----------------------|-----------|------------------------|-------------|
| | | CONCRETE | GROUTED CONCRETE BLOCK | WOOD |
| ≤ 75.0 | ≤ 5'-0" | 6" O.C. | 6" O.C. | 6" O.C. |
| | > 5'-0" - 10'-0" | 6" O.C. | 6" O.C. | 3 1/4" O.C. |
| > 75-150 | ≤ 5'-0" | 6" O.C. | 6" O.C. | 3 1/4" O.C. |
| | > 5'-0" - 10'-0" | 6" O.C. | 4 1/2" O.C. | N/A |

2 X 12 P.T. WOOD BUCKS TOP/BOTT. REQ'D (SEE NOTE 4/1)

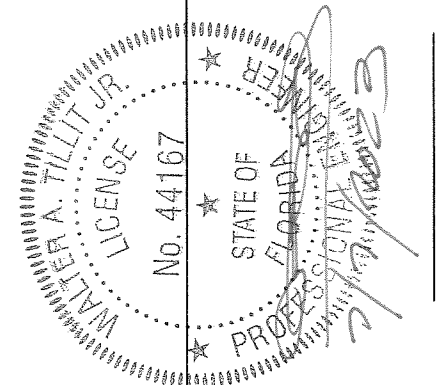


SECTION A1-A1 W/ (6A)

1/4" = 0'-1"

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*MAX. 3/8" ALLOWABLE SHIM SPACE @ WDV-130 (REQUIRED FOR MOUNTING ANGLE (11) INSTALLATION)
**BACKER ROD & CAULK NOT SUPPLIED BY UNITED ENERTECH



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

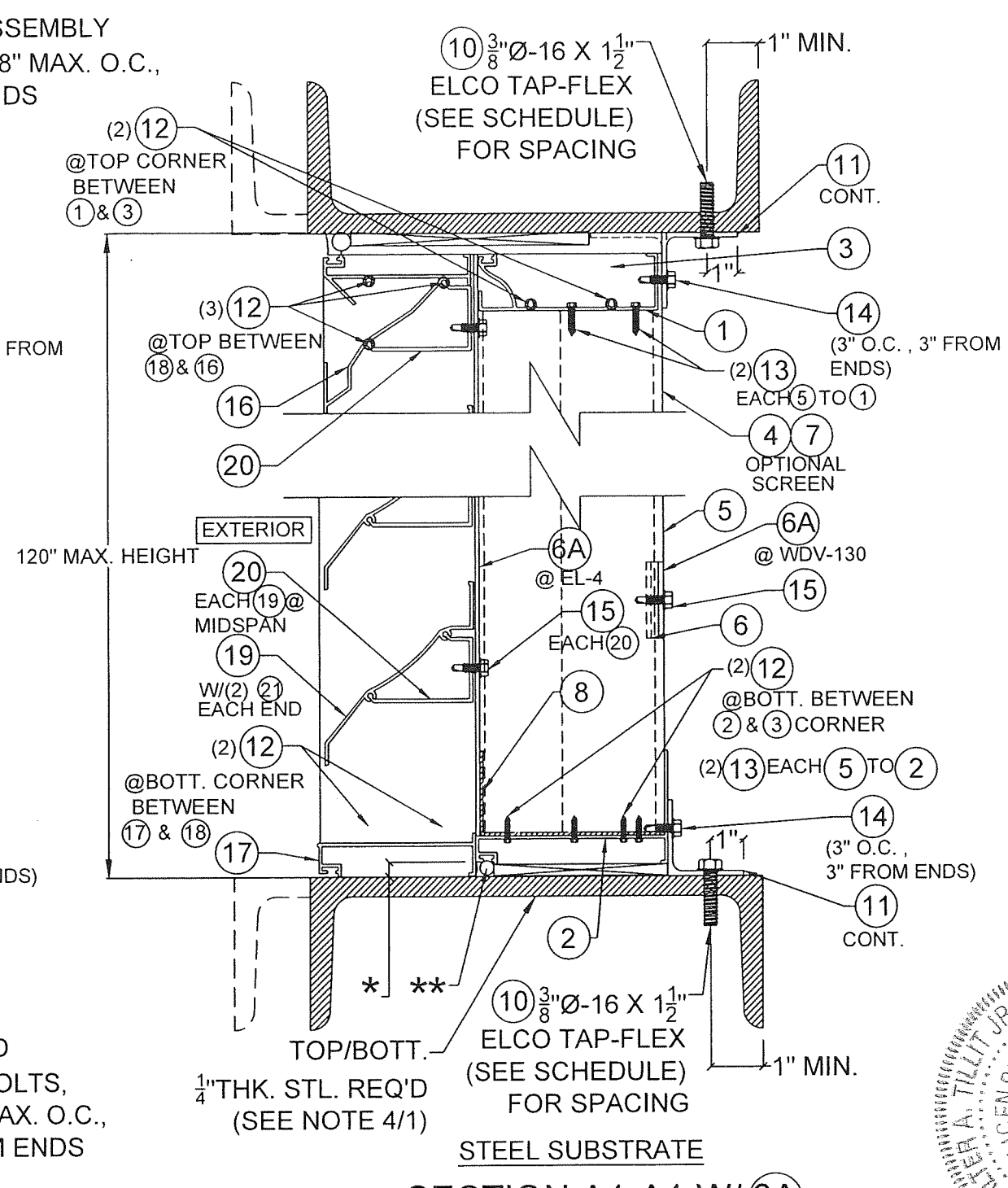
MODEL D-HV-9 HORIZONTAL LOUVER SYSTEM (EL-4) AS FRONT DECORATIVE COVER TO APPROVED MODEL WDV-130 VERTICAL L.M. IMPACT RESISTANT ALUM. LOUVER SYSTEM

TILECO INC.
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SECTION A1-A1 W/ (6A)

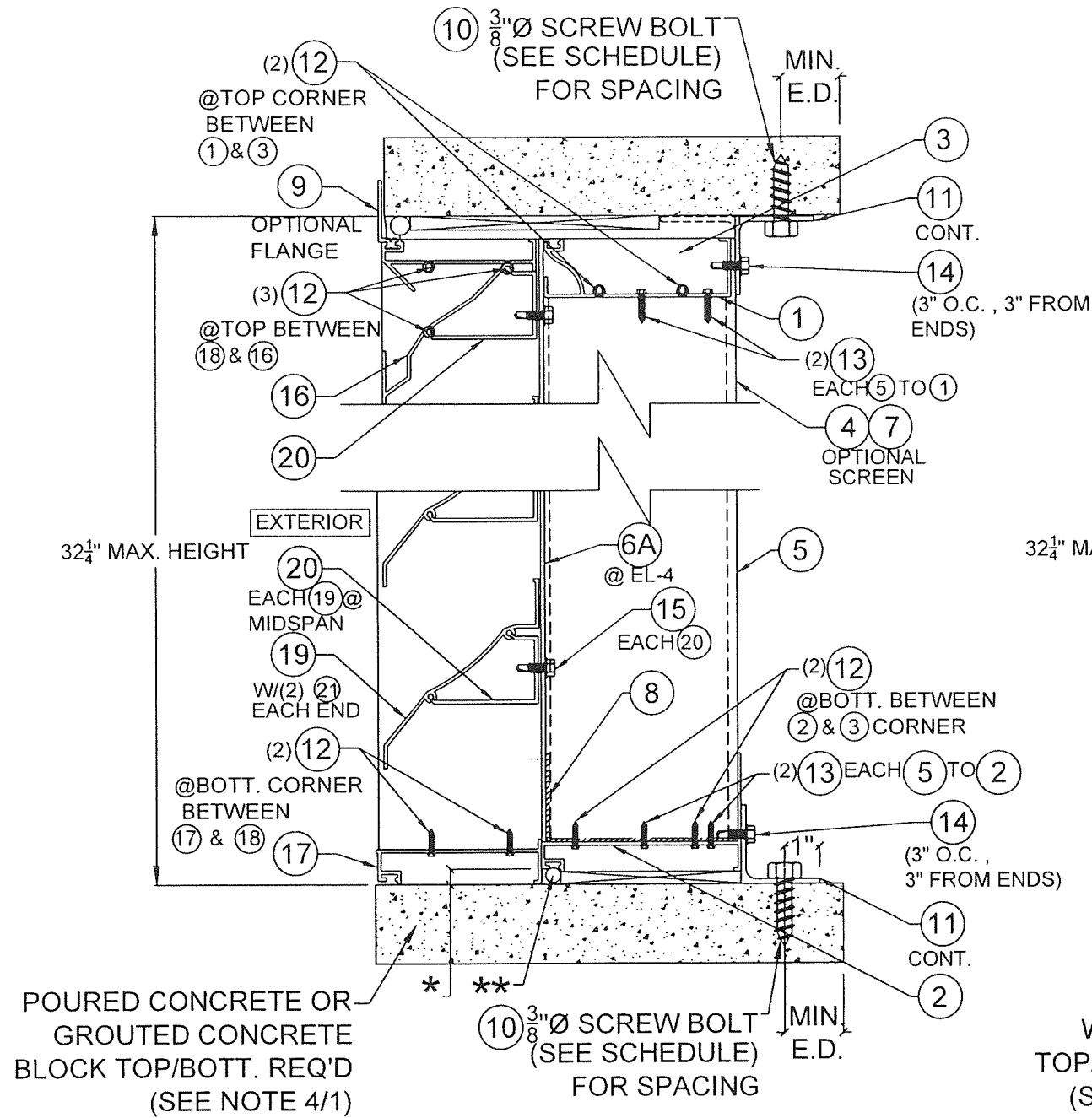
MAX. ANCHOR (10) SPACING SCHEDULE AS PER NOTE 4/1 AT
ANGLE (22) OR ANGLE (11) SEE SECTIONS A1-A1 TOP & BOTTOM

| A.S.D. DESIGN LOAD (p.s.f.) | MAX. UNIT HEIGHT (FT) | SUBSTRATE | |
|--------------------------------|-----------------------------|-------------------------------------------------|---------|
| | | POURED CONCRETE OR GROUTED CONCRETE BLOCK | STEEL |
| ≤ 75.0 | $\leq 5'-0"$ | 6" O.C. | 6" O.C. |
| | $> 5'-0" - 10'-0"$ | 6" O.C. | 6" O.C. |
| $> 75-150$ | $\leq 5'-0"$ | 6" O.C. | 6" O.C. |
| | $> 5'-0" - 10'-0"$ | 6" O.C. | 6" O.C. |

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Miami-Dade Product Control

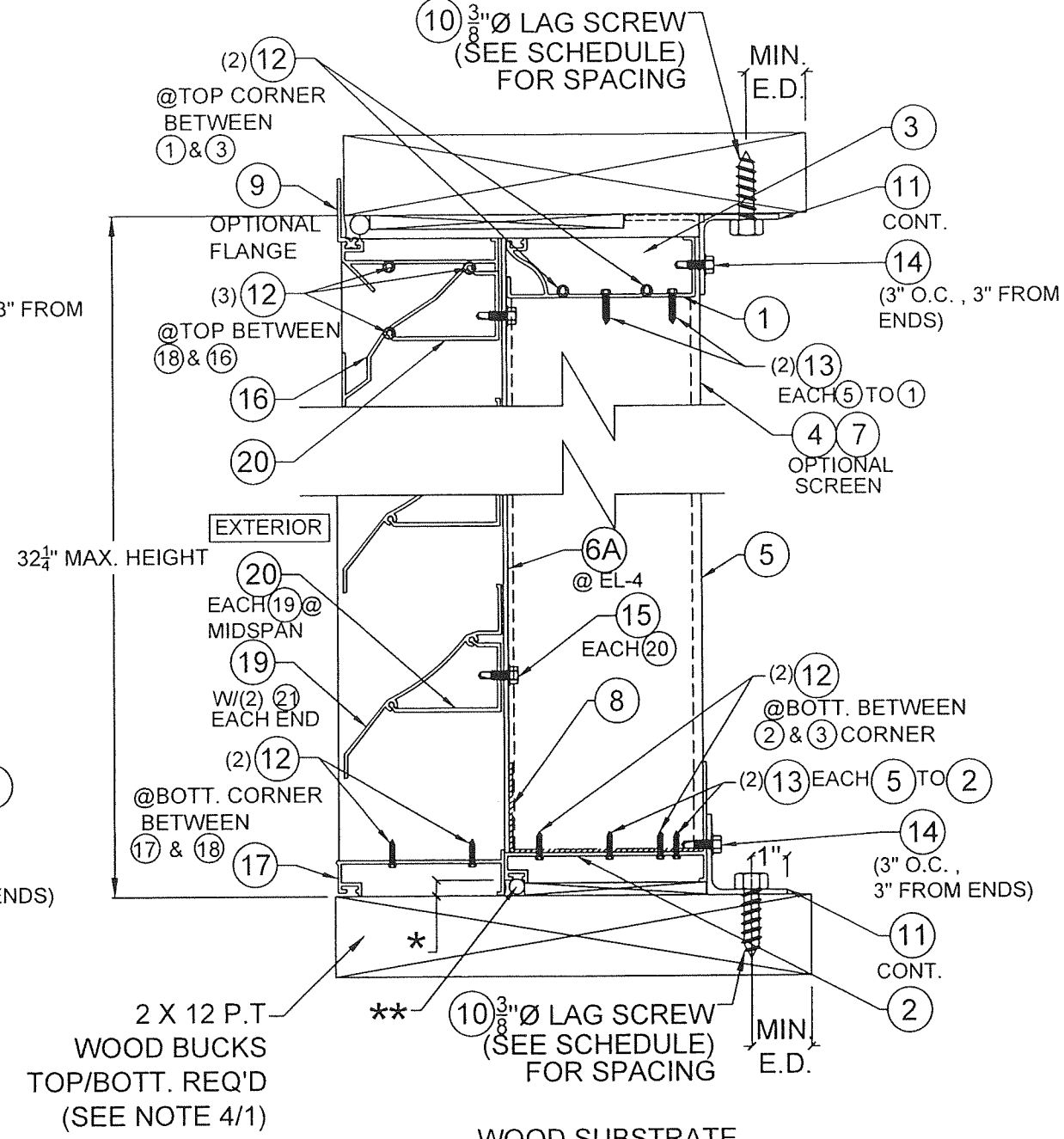
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SECTION A2-A2 W/O (6A) AT WDV-130 SYSTEM

1/4" = 0' - 1"



SECTION A2-A2 W/O (6A) AT WDV-130 SYSTEM

1/4" = 0' - 1"

MAX. ANCHOR (10) SPACING SCHEDULE AS PER
NOTE 4/1 AT ANGLE (11) TOP & BOTTOM

| A.S.D. DESIGN LOAD (p.s.f.) | MAX. UNIT HEIGHT (FT) | SUBSTRATE | | |
|--------------------------------|-----------------------------|-----------|---------------------------|-------------|
| | | CONCRETE | GROUTED CONCRETE BLOCK | WOOD |
| ≤ 75.0 | ≤ 32 1/4" | 6" O.C. | 6" O.C. | 6" O.C. |
| >75-150 | ≤ 32 1/4" | 6" O.C. | 6" O.C. | 3 1/4" O.C. |

*MAX. 3/8" ALLOWABLE SHIM SPACE @ WDV-130
(REQUIRED FOR MOUNTING ANGLE (1) INSTALLATION)

**BACKER ROD & CAULK NOT SUPPLIED BY
UNITED ENERTECH

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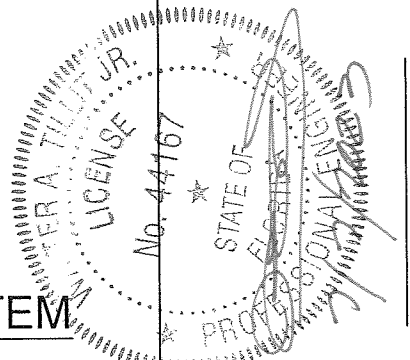
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

MODEL D-HV-9 HORIZONTAL LOUVER SYSTEM (EL-4) AS
FRONT DECORATIVE COVER TO APPROVED MODEL WDV-130
VERTICAL L.M. IMPACT RESISTANT ALUM. LOUVER SYSTEM

**United
EnerTech**
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Chattanooga, TN 37407

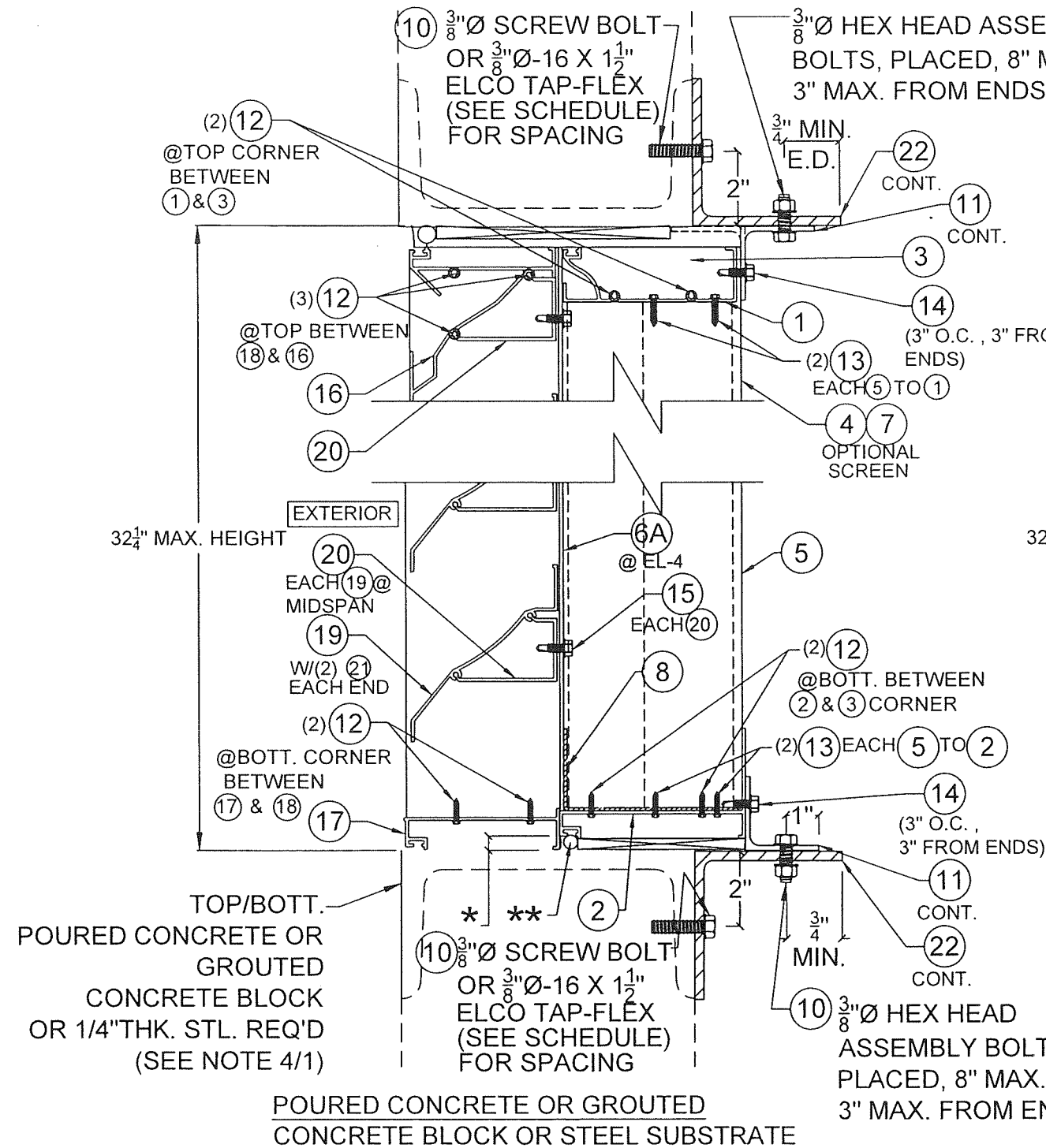
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FLORIDA Lic. # 44167



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SECTION A2-A2 W/O (6A) AT WDV-130 SYSTEM

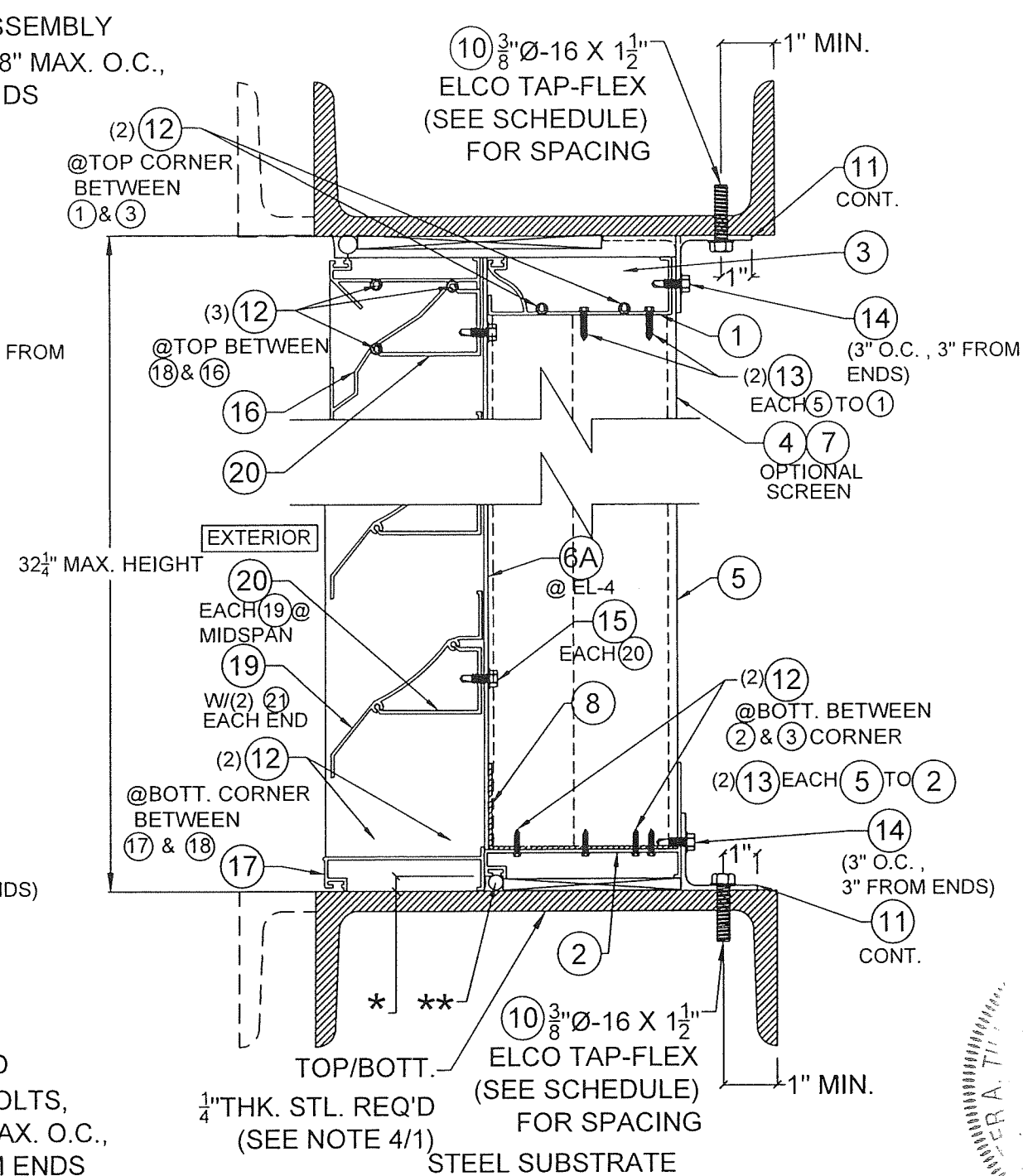
1/4" = 0'-1"

MAX. ANCHOR (10) SPACING SCHEDULE AS PER NOTE 4/1 AT
ANGLE (22) OR ANGLE (11) SEE SECTIONS A1-A1 TOP & BOTTOM

| A.S.D. DESIGN LOAD (p.s.f.) | MAX. UNIT HEIGHT (FT) | SUBSTRATE | |
|--------------------------------|-----------------------------|-------------------------------------------------|---------|
| | | POURED CONCRETE OR GROUTED CONCRETE BLOCK | STEEL |
| ≤ 75.0 | ≤ 32 1/4" | 6" O.C. | 6" O.C. |
| >75-150 | ≤ 32 1/4" | 6" O.C. | 6" O.C. |

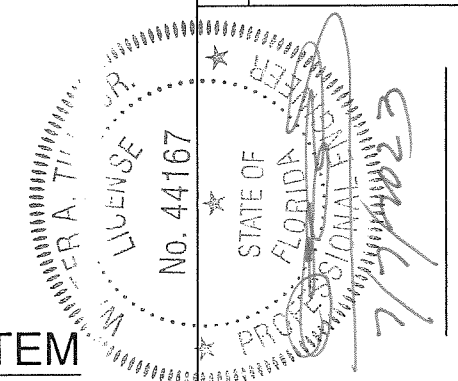
*MAX. 3/8" ALLOWABLE SHIM SPACE @ WDV-130
(REQUIRED FOR MOUNTING ANGLE (11) INSTALLATION)

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SECTION A2-A2 W/O (6A) AT WDV-130 SYSTEM

1/4" = 0'-1"



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MIAMI DADE COUNTY

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

MODEL D-HV-9 HORIZONTAL LOUVER SYSTEM (EL-4) AS
FRONT DECORATIVE COVER TO APPROVED MODEL WDV-130
VERTICAL L.M. IMPACT RESISTANT ALUM. LOUVER SYSTEM



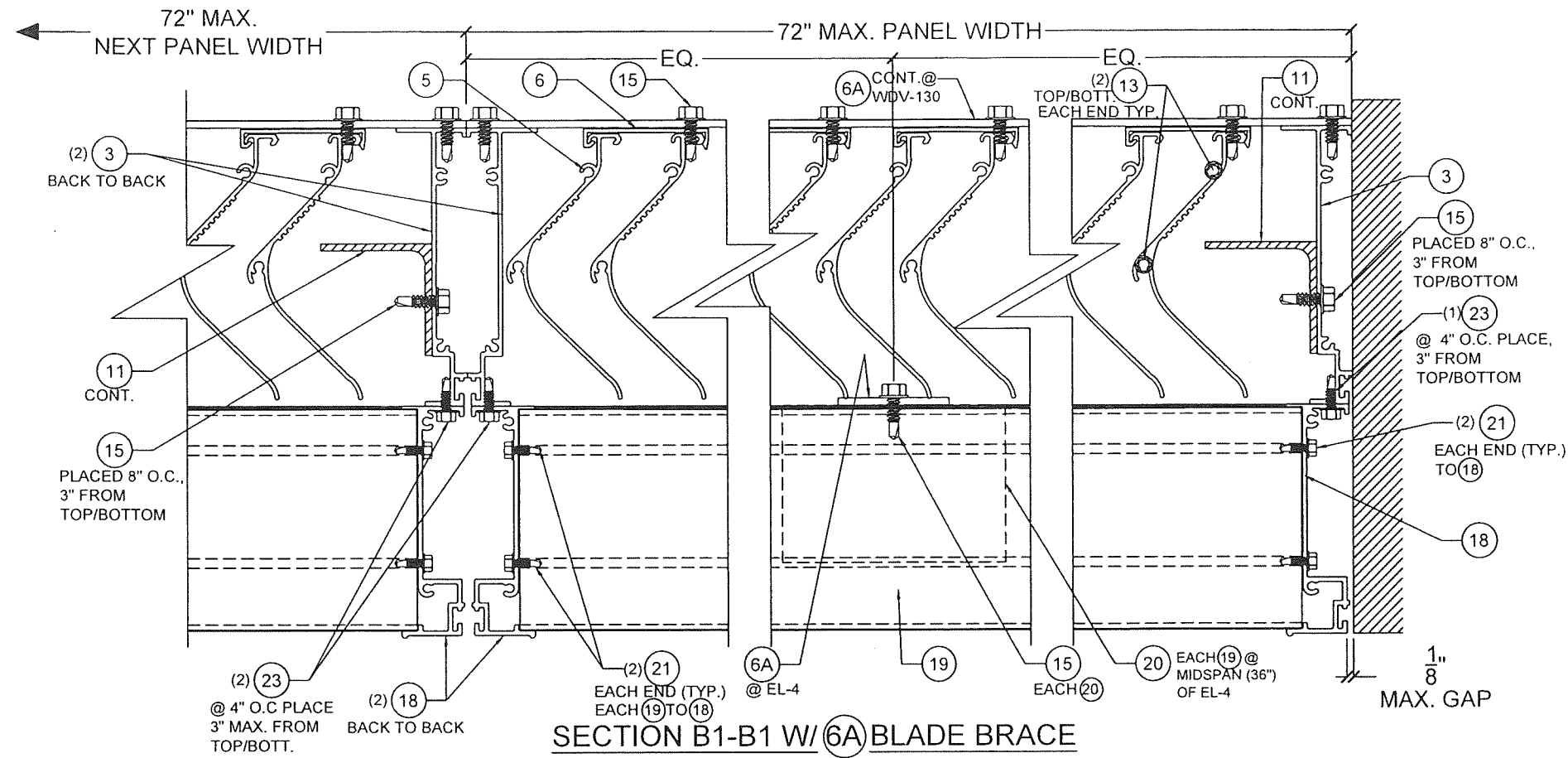
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Chattanooga, TN 37407

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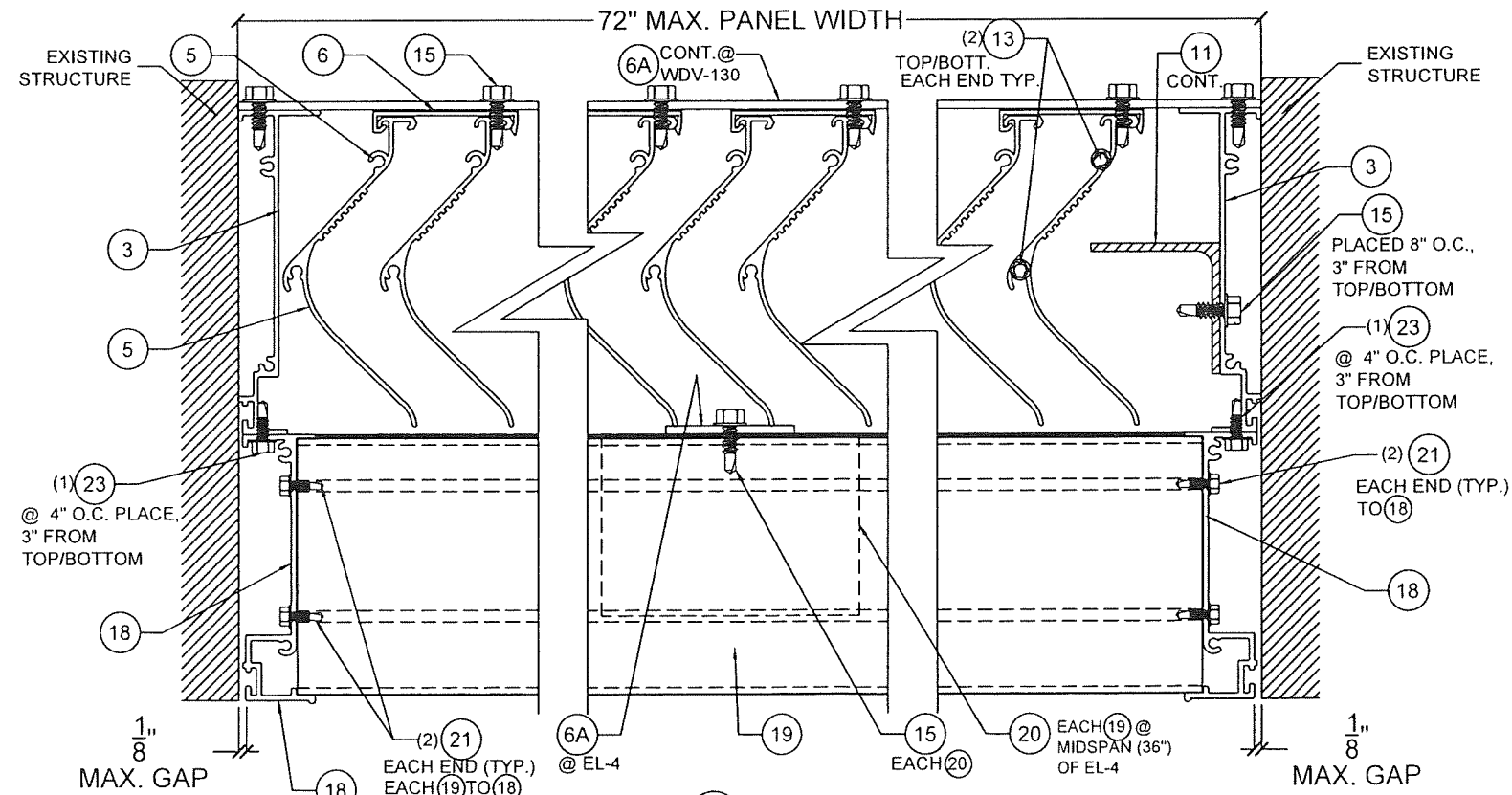
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SECTION B1-B1 W/ (6A) BLADE BRACE
(HORIZONTAL @ WDV-130 & VERTICAL @ EL-4)
N.T.S



SECTION C1-C1 W/ (6A) BLADE BRACE
(HORIZONTAL @ WDV-130 & VERTICAL @ EL-4)
N.T.S

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

MODEL D-HV-9 HORIZONTAL LOUVER SYSTEM (EL-4) AS
FRONT DECORATIVE COVER TO APPROVED MODEL WDV-130
VERTICAL L.M. IMPACT RESISTANT ALUM. LOUVER SYSTEM



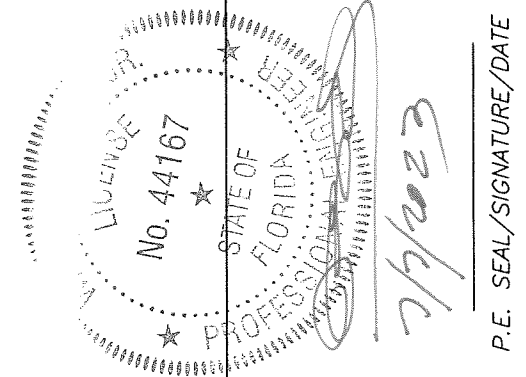
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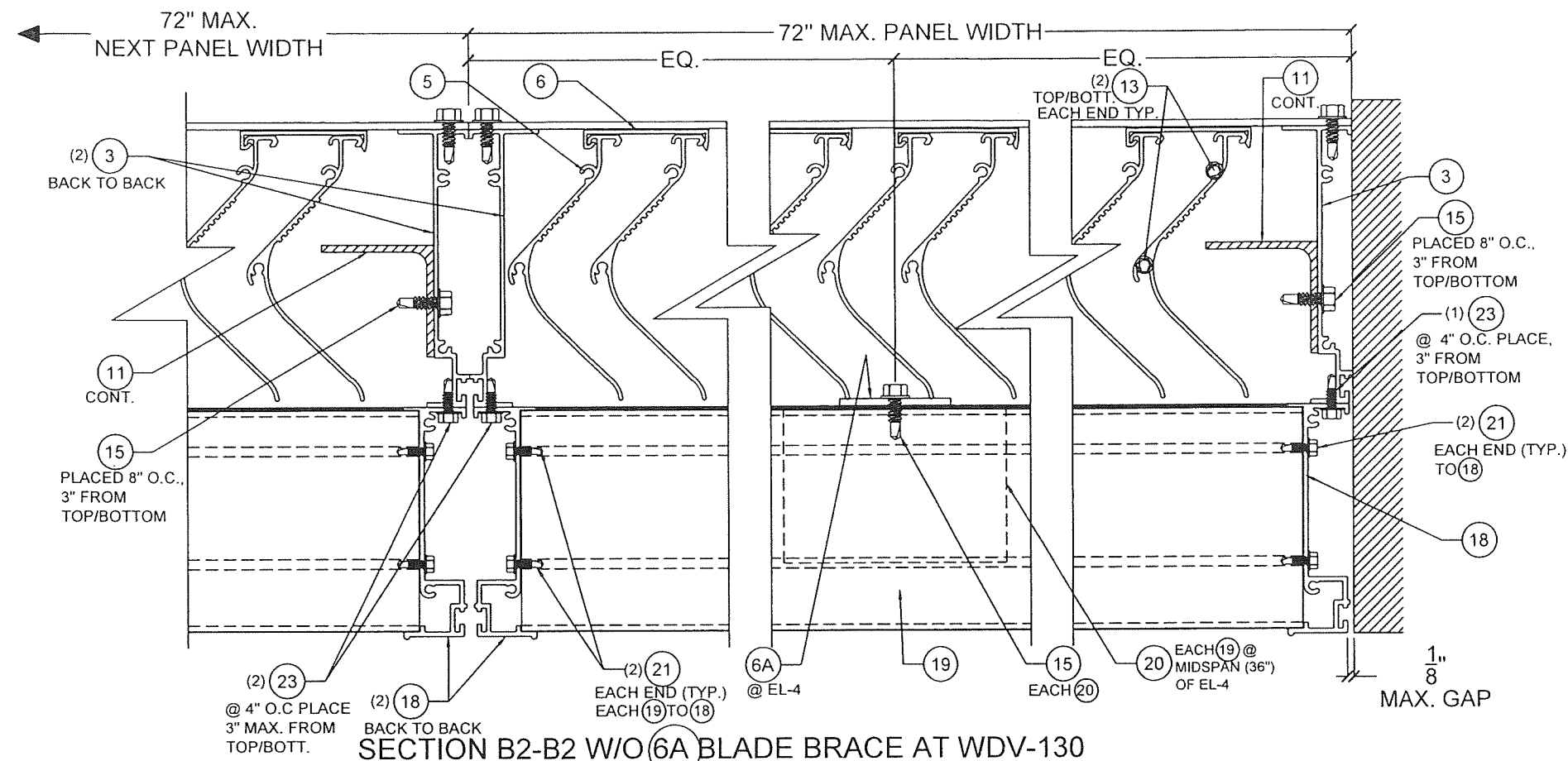
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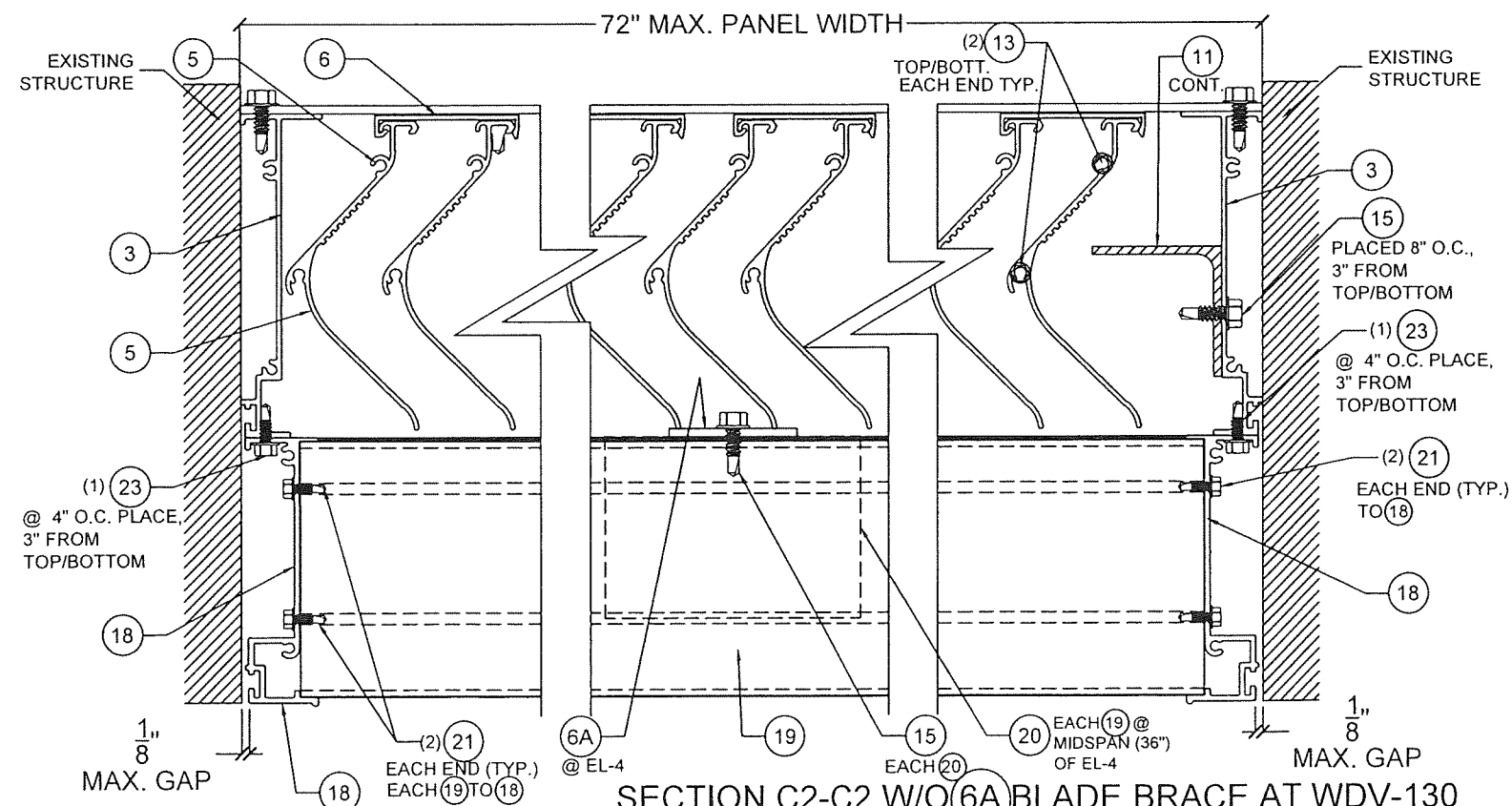
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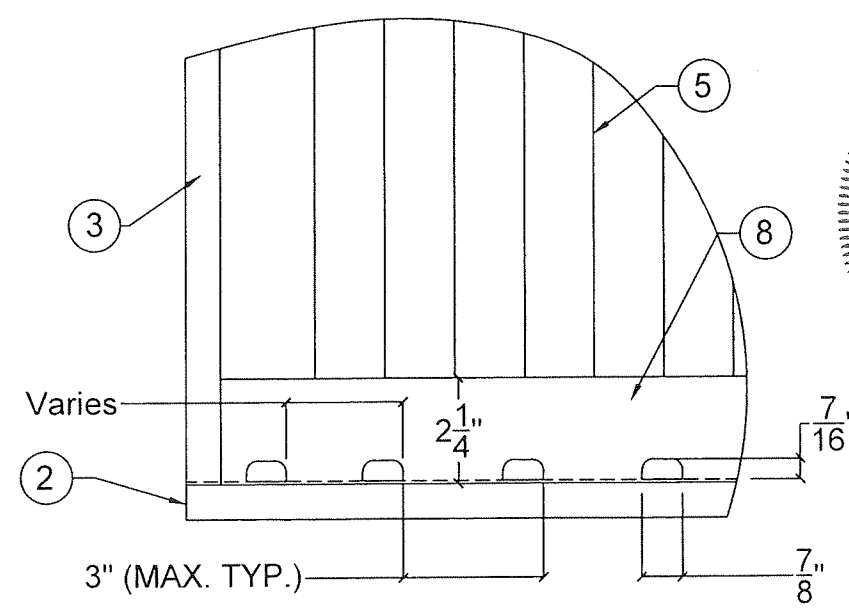


SECTION B2-B2 W/O 6A BLADE BRACE AT WDV-130
 (HORIZONTAL @ WDV-130 & VERTICAL @ EL-4)
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SECTION C2-C2 W/O 6A BLADE BRACE AT WDV-130
 (HORIZONTAL @ WDV-130 & VERTICAL @ EL-4)
 N.T.S



DETAIL 1 (WEEP HOLES/SILL BAFFLE REQ'D @ WDV-130)

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)
 MODEL D-HV-9 HORIZONTAL LOUVER SYSTEM (EL-4) AS
 FRONT DECORATIVE COVER TO APPROVED MODEL WDV-130
 VERTICAL L.M. IMPACT RESISTANT ALUM. LOUVER SYSTEM

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