

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 COVER TO REAR APPROVED MODEL WDV-130 VERTICAL LARGE MISSILE IMPACT RESISTANT ALUM. LOUVER SYSTEM SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th 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 SECTIONS 1620 & 1609 OF THE ABOVE MENTIONED CODE, USING ASCE 7-22 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 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 SECTIONS 1626 & 1609.1.2 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 & 550 FOR WDV-130 REAR APPROVED SYSTEM UNDER SEPARATE APPROVAL.

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 & AMCA 550.
6. ALUMINUM MEMBERS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 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 EVALUATION DOCUMENT (P.E.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.E.D.

(B). CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.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 EVALUATION 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.E.D.

(E). ORIGINAL P.E.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

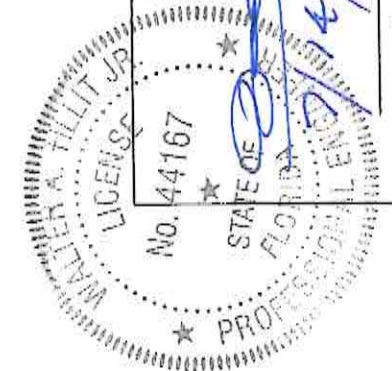
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

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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CA-0006719
WALTER A. TILIT Jr., P.E.
FLORIDA Lic. # 44167



P.E. SEAL/SIGNATURE/DATE

Y.M.
DRAWN BY:

DATE:
7/14/23

DRAWING No.
23-095

SHEET 1 OF 11

BILL OF MATERIALS

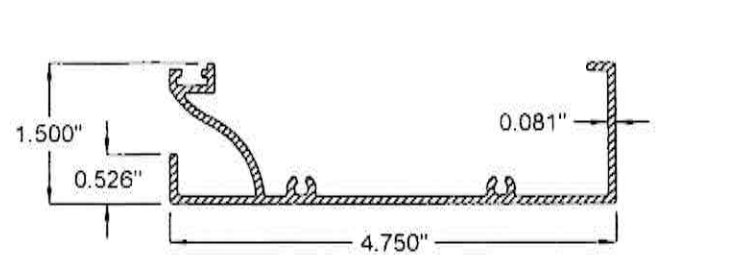
COMPONENT #	DESCRIPTION	MATERIAL	NOTES	USE AT MODEL	
				REAR	FRONT
①	HEAD	6063-T5 ALUMINUM ALLOY/TEMPER	CONTINUOUS	WDV-130	-
②	SILL	6063-T5 ALUMINUM ALLOY/TEMPER	CONTINUOUS USE W/ ⑧	WDV-130	-
③	SIDE JAMB	6063-T5 ALUMINUM ALLOY/TEMPER	CONTINUOUS	WDV-130	-
④	BIRD SCREEN FRAME	6063-T5 ALUMINUM ALLOY/TEMPER	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

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

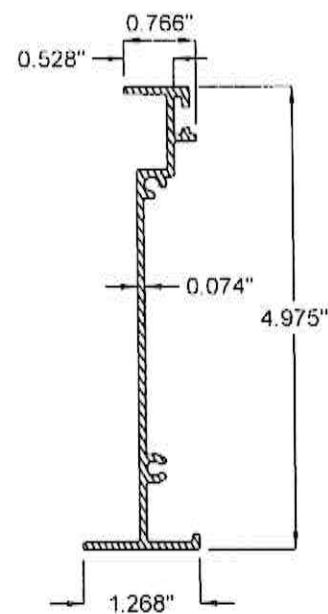
Y.M.	DATE	Y.M.	DATE
7/14/23	7/14/23	7/14/23	7/14/23
ES EXTERIOR WALL METAL INSULATED SIDING PANEL SYSTEM AIR + MODEL DWG 32-06		SANTURCE INVERSIONES S.A., LLC 10 EDGE WATER DR. APT 7E CORAL GABLES, FL 33133	
23-098		DRAWING NO.	
2		SHEET 2 OF 12	

TILECO INC.
TILIT TESTING & ENGINEERING COMPANY
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Phone: (954) 340-0571 Fax: (954) 340-0571
WALTER A. TILIT JR., P.E.
FLORIDA Lic. # 44167

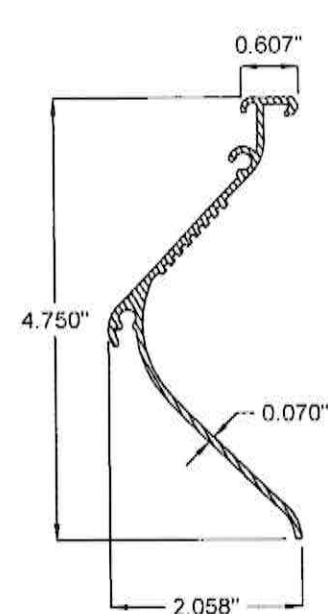
[Signature]
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE



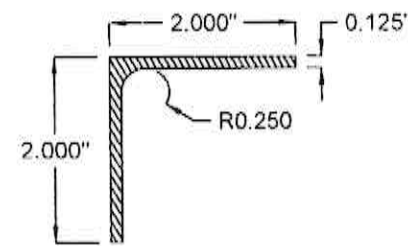
1 HEAD



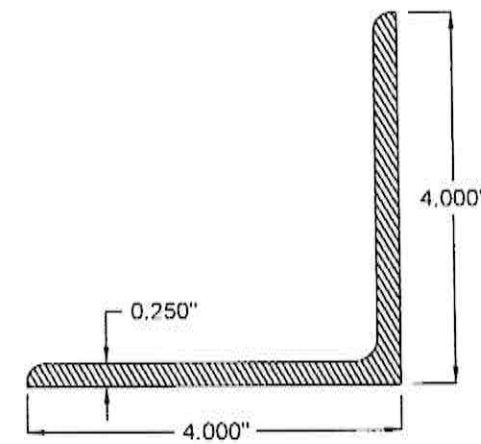
3 SIDE JAMB



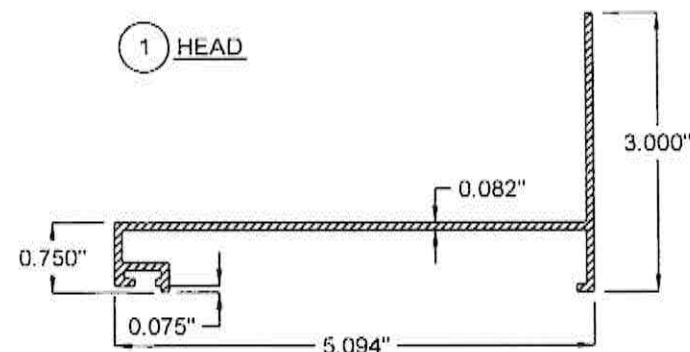
5 BLADE



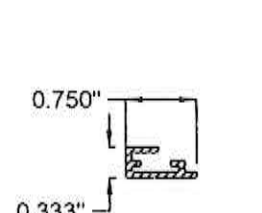
11 HEAD/SILL MOUNTING ANGLE
(DOUBLES AS JAMB BLANK-OFF)



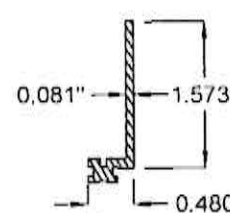
22 WALL EXTENSION ANGLE



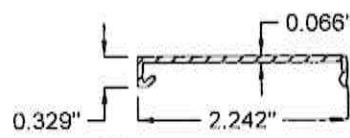
2 SILL



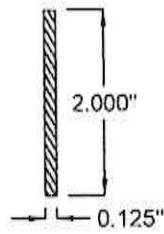
4 BIRD SCREEN FRAME



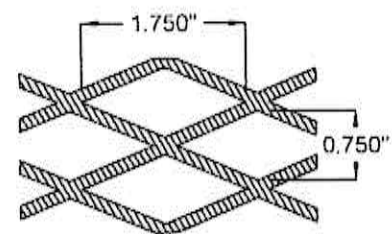
9 FLANGE



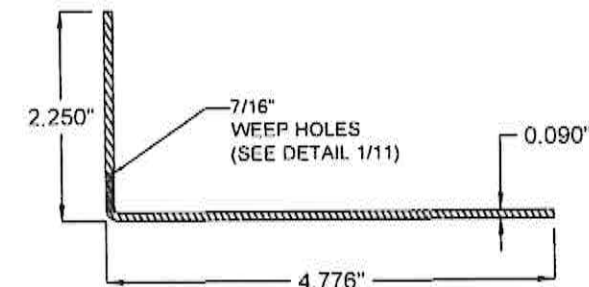
6 BLADE BRACE



6A BLADE BRACE STRIP



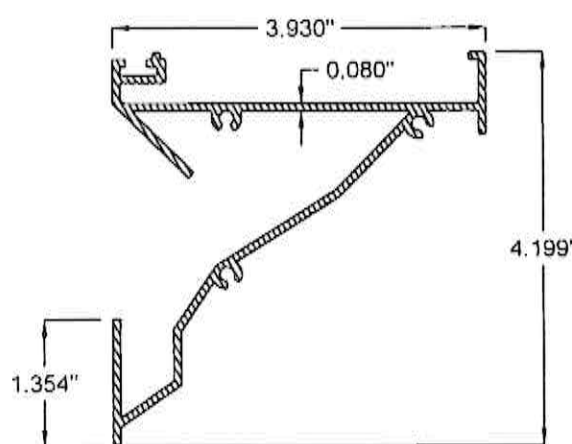
7 OPTIONAL BIRD SCREEN



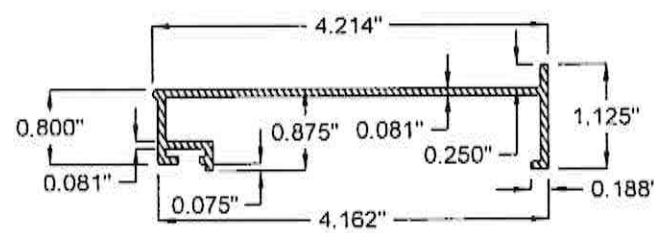
8 SILL BAFFLE

COMPONENTS: WVD-130 SYSTEM

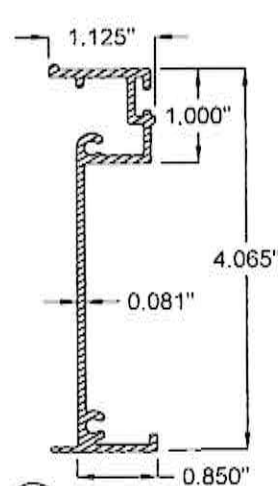
1/2"=0'-1"



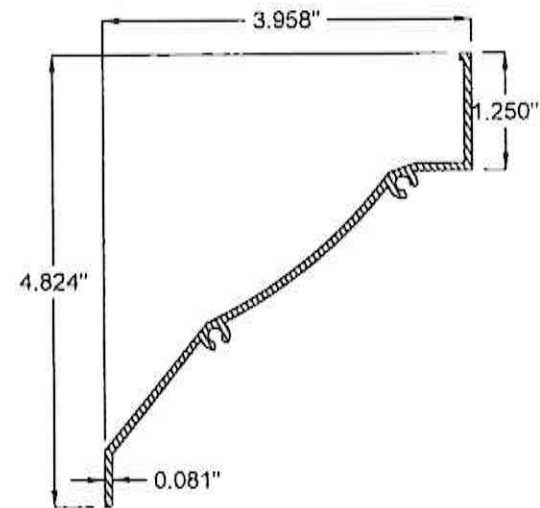
16 4" HEAD



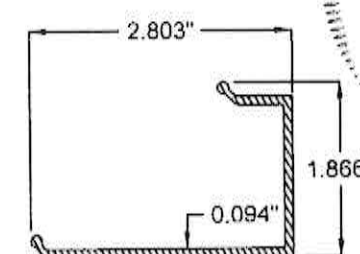
17 4" SILL



18 4" SIDE JAMB



19 4" BLADE



20 4" LONG BLADE BRACE

COMPONENTS: DECORATIVE EL-4 SYSTEM

1/2"=0'-1"

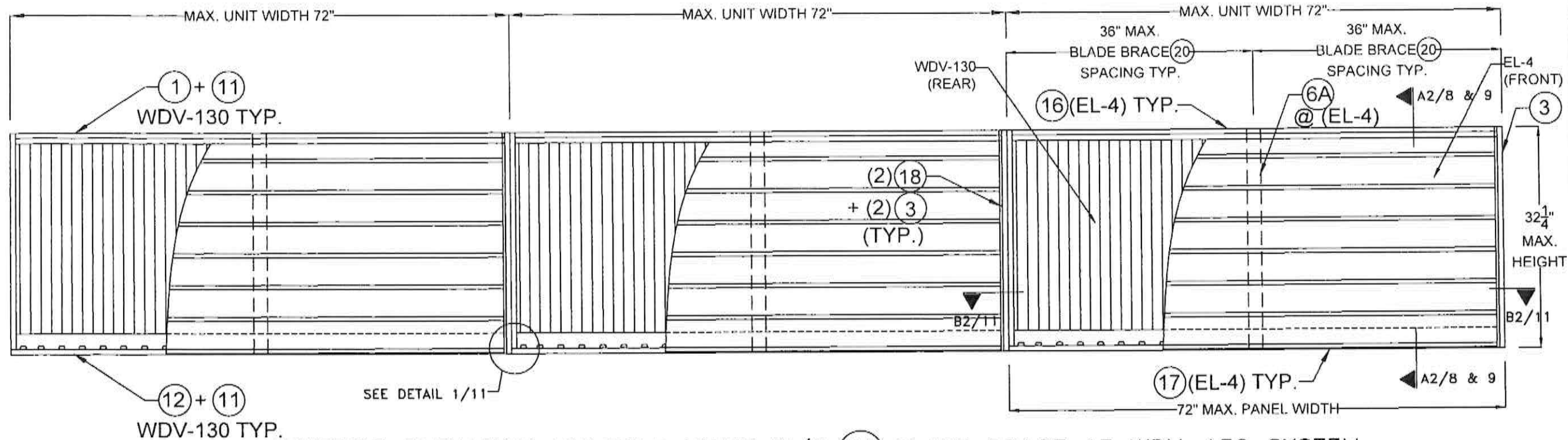
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

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

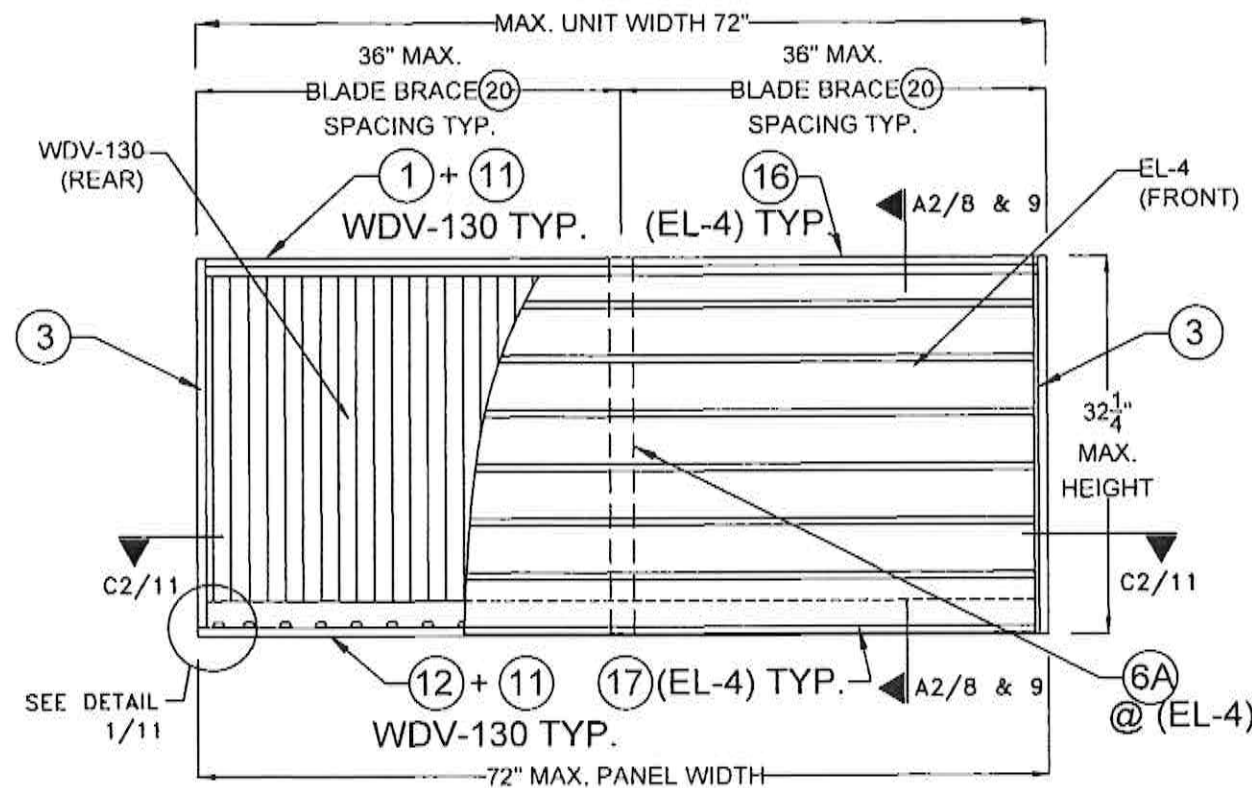
REV.	NO.	DESCRIPTION	DATE	REV.	NO.	DESCRIPTION	DATE
1	1	ADD 20-104	7/14/23	3	3		
2	2			4	4		

TILECO INC.
TILLIT TESTING & ENGINEERING COMPANY
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PROFESSIONAL SEAL
No. 44167
STATE OF FLORIDA
7/14/2023
P.E. SEAL/SIGNATURE/DATE



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 & NON HIGH VELOCITY HURRICANE ZONE)

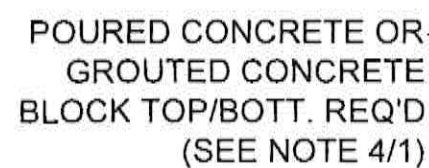
MODEL D-HV-9 HORIZONTAL LOUVER SYSTEM (EL-4) AS
FRONT DECORATIVE COVER TO APPROVED MODEL WDV-130
VERTICAL L.M. IMPACT RESISTANT ALUM. LOUVER SYSTEM

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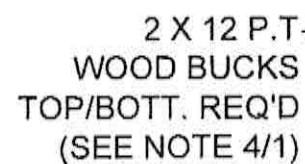
02023 TILTECO, INC.

Y.M.
DRAWN BY:
7/14/23
DATE:
23-095
DRAWING NO.
SHEET 5 OF 11





SECTION A1-A1 W/ (6A)

$$1/4'' = 0' - 1''$$


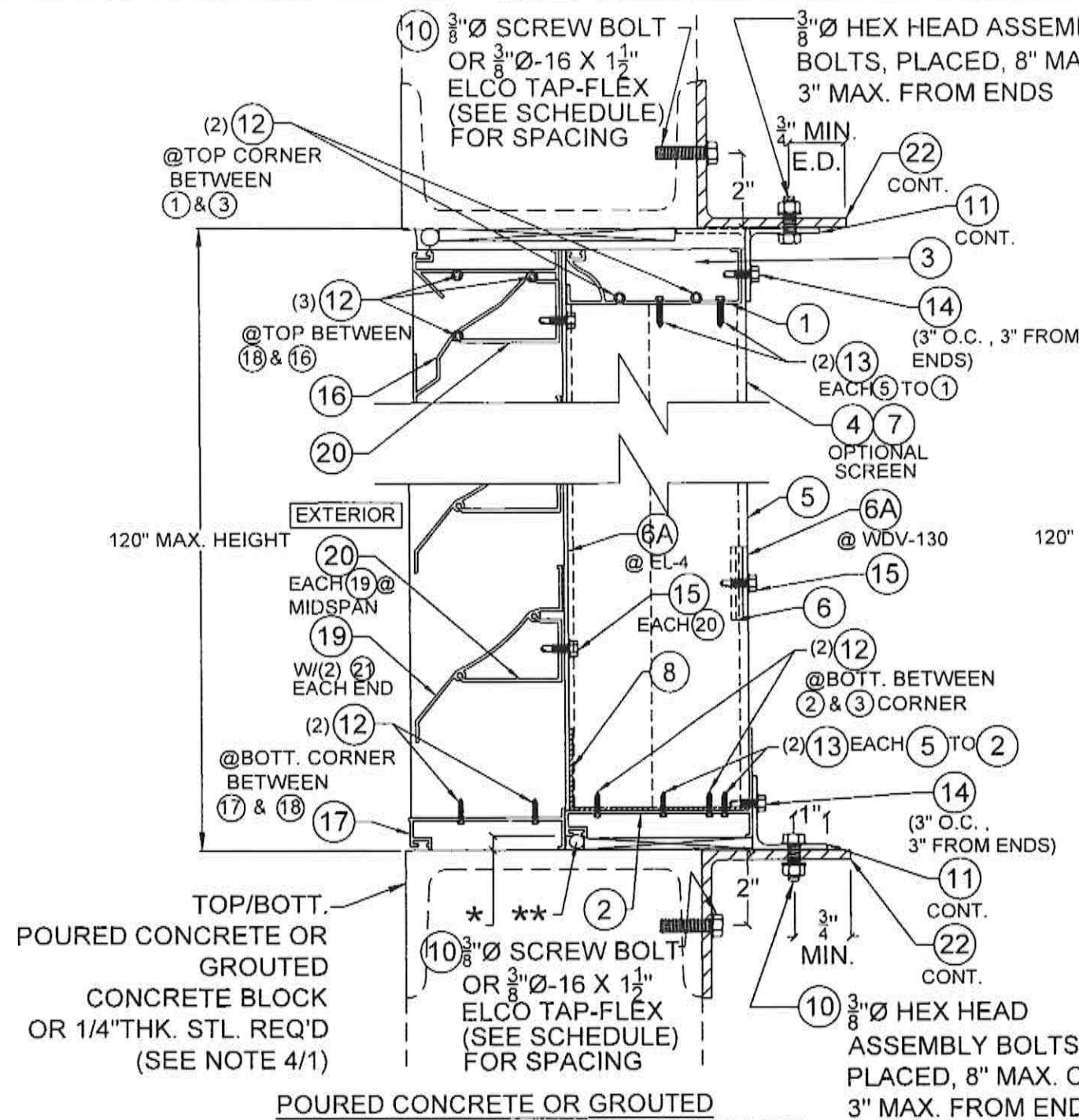
WOOD SUBSTRATE
SECTION A1-A1 W/ (6A)

$$1/4'' = 0' - 1''$$

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

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

**BACKER ROD & CAULK NOT SUPPLIED BY
UNITED ENERTECH



SECTION A1-A1 W/6A

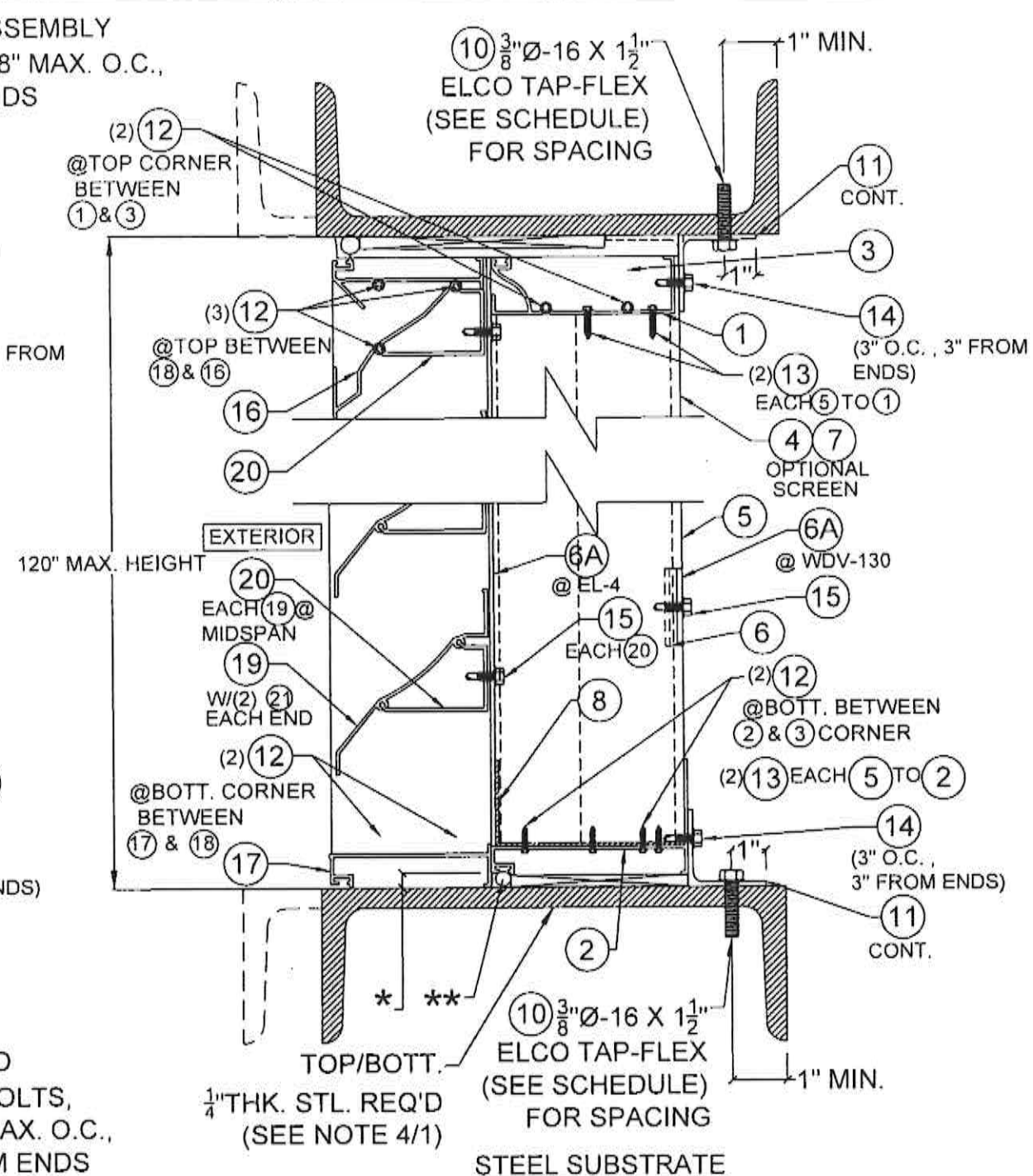
1/4"=0'-1"

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	≤ 5'-0"	6" O.C.	6" O.C.
	> 5'-0" - 10'-0"	6" O.C.	6" O.C.
> 75-150	≤ 5'-0"	6" O.C.	6" O.C.
	> 5'-0" - 10'-0"	6" O.C.	6" O.C.

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

**BACKER ROD & CAULK NOT SUPPLIED BY
UNITED ENERTECH



SECTION A1-A1 W/6A

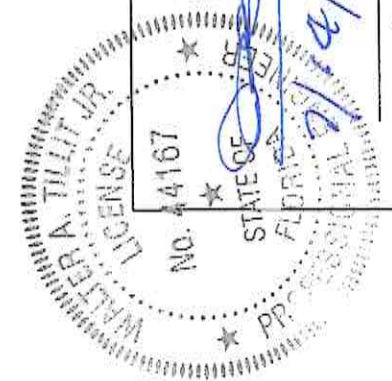
1/4"=0'-1"

FLORIDA BUILDING CODE (HIGH & NON 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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WALTER A. TILIT, Jr., P.E.
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P.E. SEAL/SIGNATURE/DATE

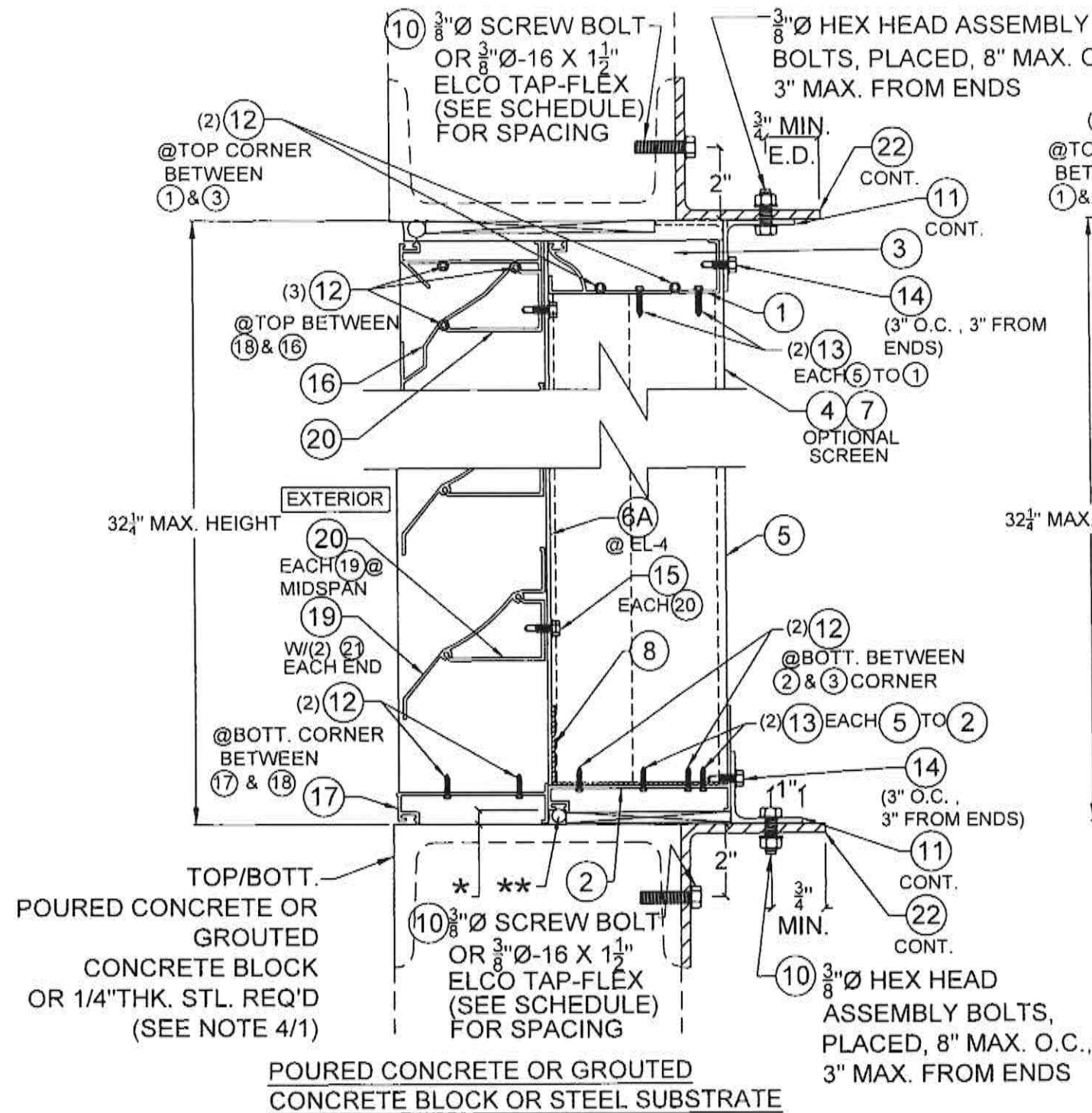
United Enertech
3005 South Hickory St.
Chattanooga, TN 37417

REV.	NO.	DESCRIPTION	DATE
1	1	ISSUED FOR PERMIT	7/14/23
2	2	REVISION	

23-095

DRAWING NO.

SHEET 7 OF 11



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

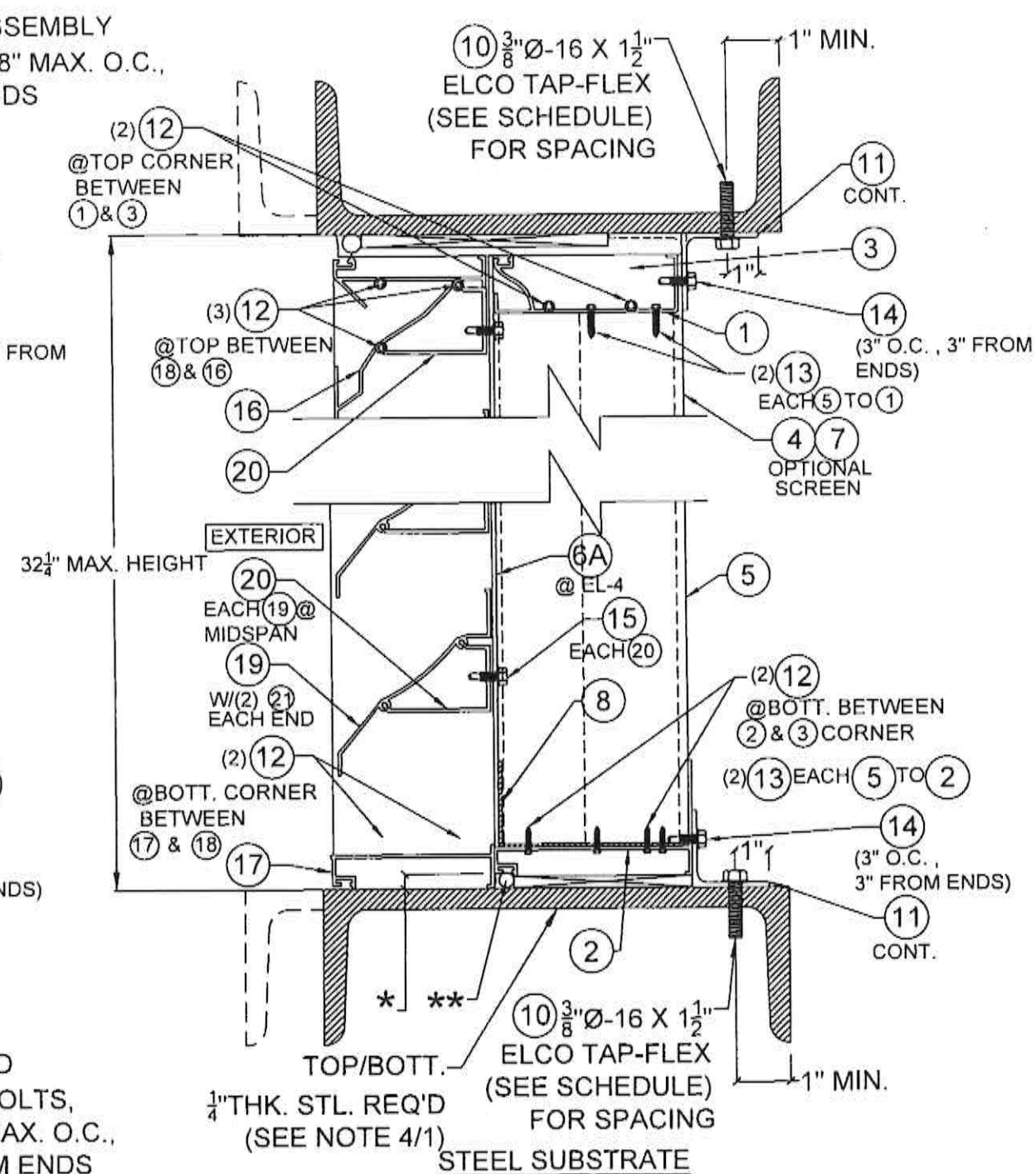
1/4" = 0'-1"

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)

**BACKER ROD & CAULK NOT SUPPLIED BY UNITED ENERTECH



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

1/4" = 0'-1"

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

MODEL 0-WV-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

DATE: 7/14/23

REV. NO. 1

DATE: 7/14/23

REV. NO. 1

DATE: 7/14/23

REV. NO. 1

TILECO INC.

TILLIT TESTING & ENGINEERING COMPANY

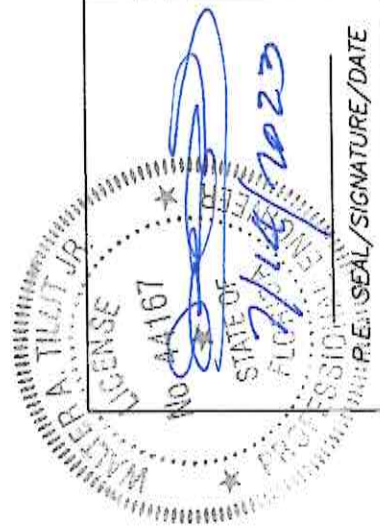
6355 N.W. 36th St., Suite 205, Virginia Beach, VA 23166

Phone: (757) 481-1300 Fax: (757) 481-1311

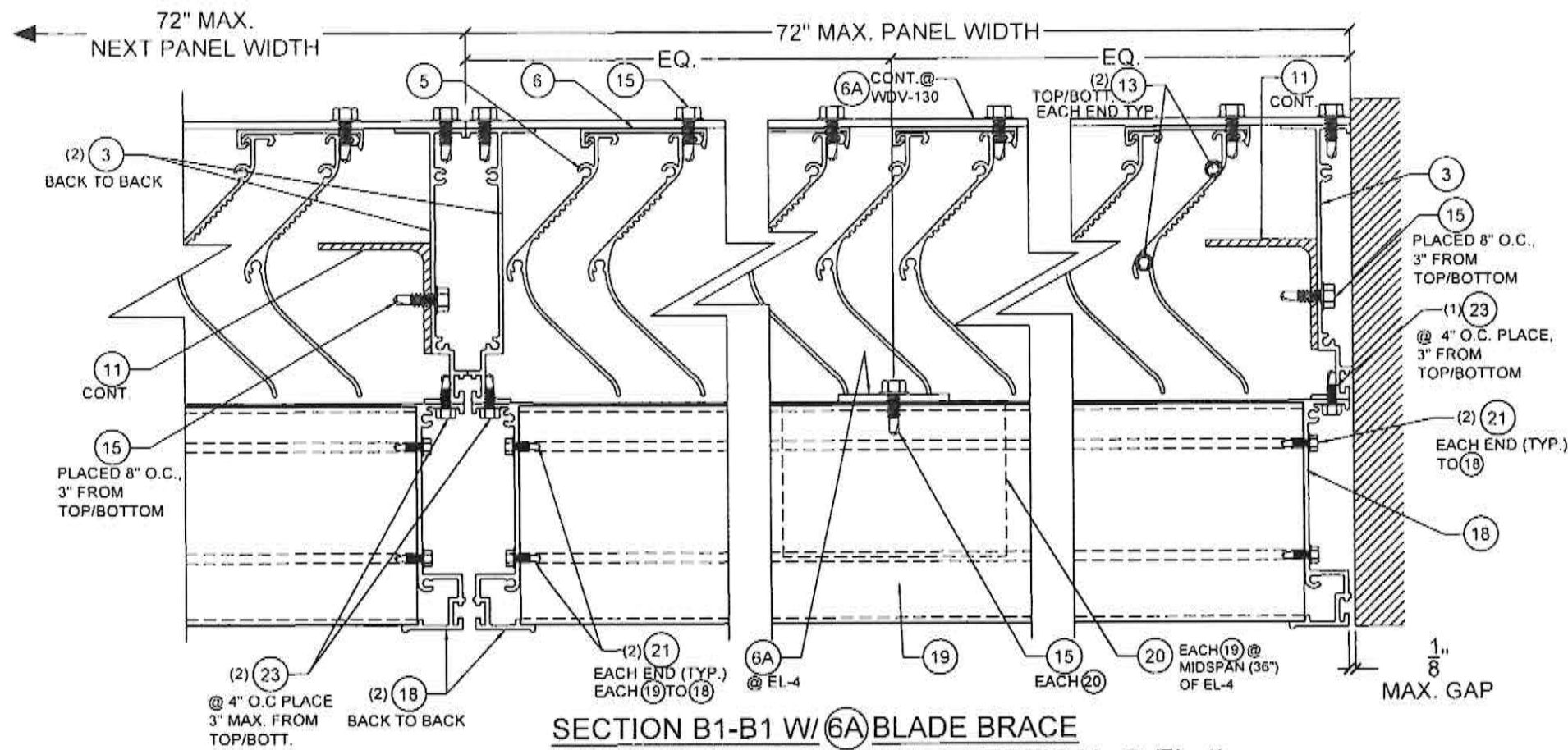
CA-0005713 J. P.E.

WALTER A. TILLIT JR.

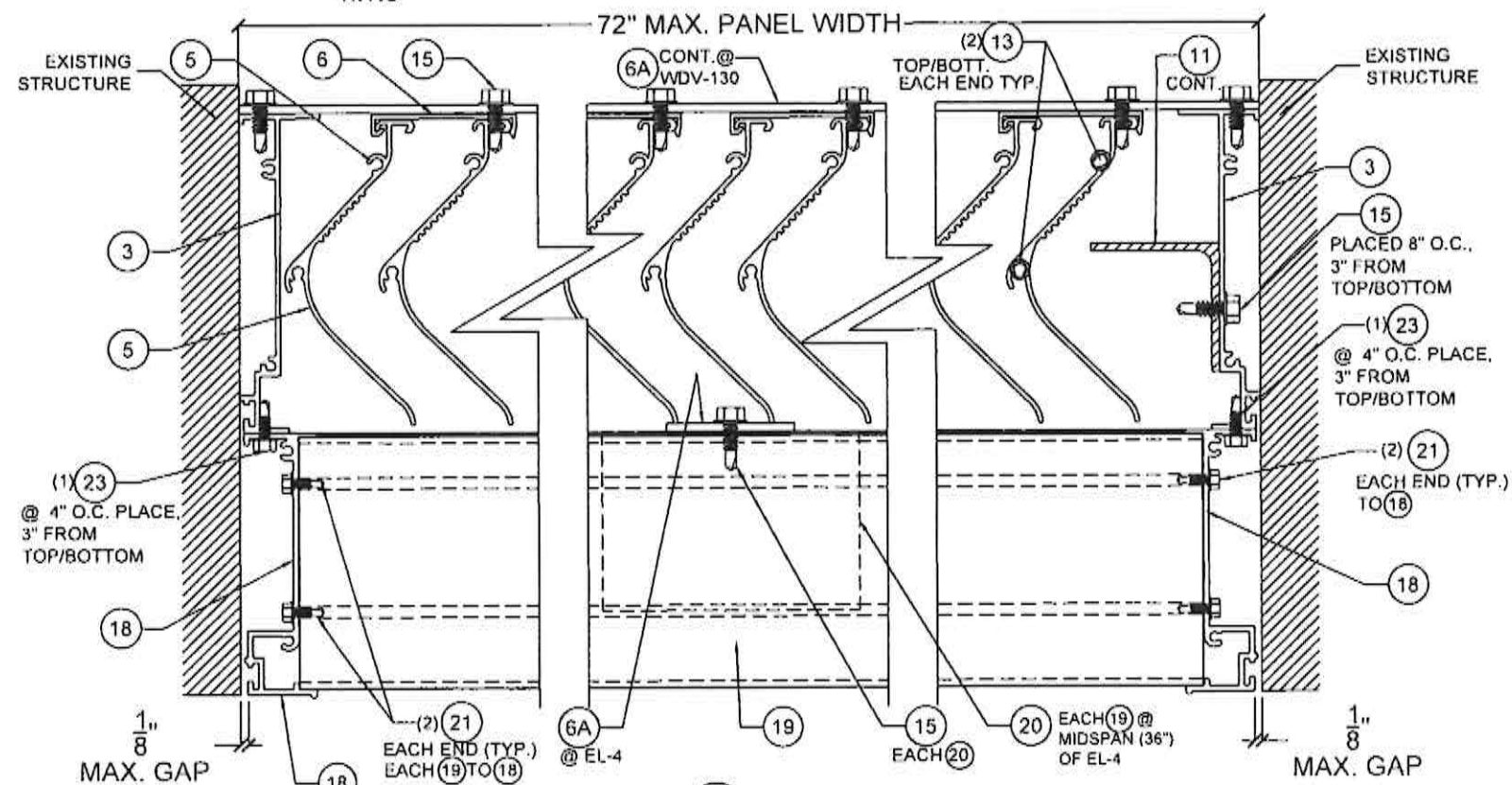
FLORIDA LIC. # 44167



P.E. SEAL/SIGNATURE/DATE



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 & NON 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

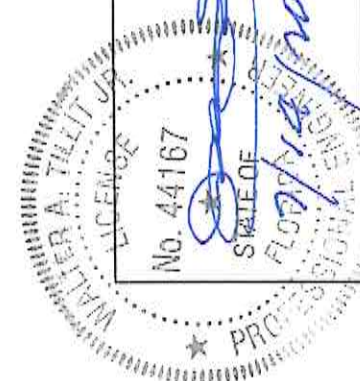


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Chattanooga, TN 37407

CA-C006719
WALTER A. TILLOT JR., P.E.
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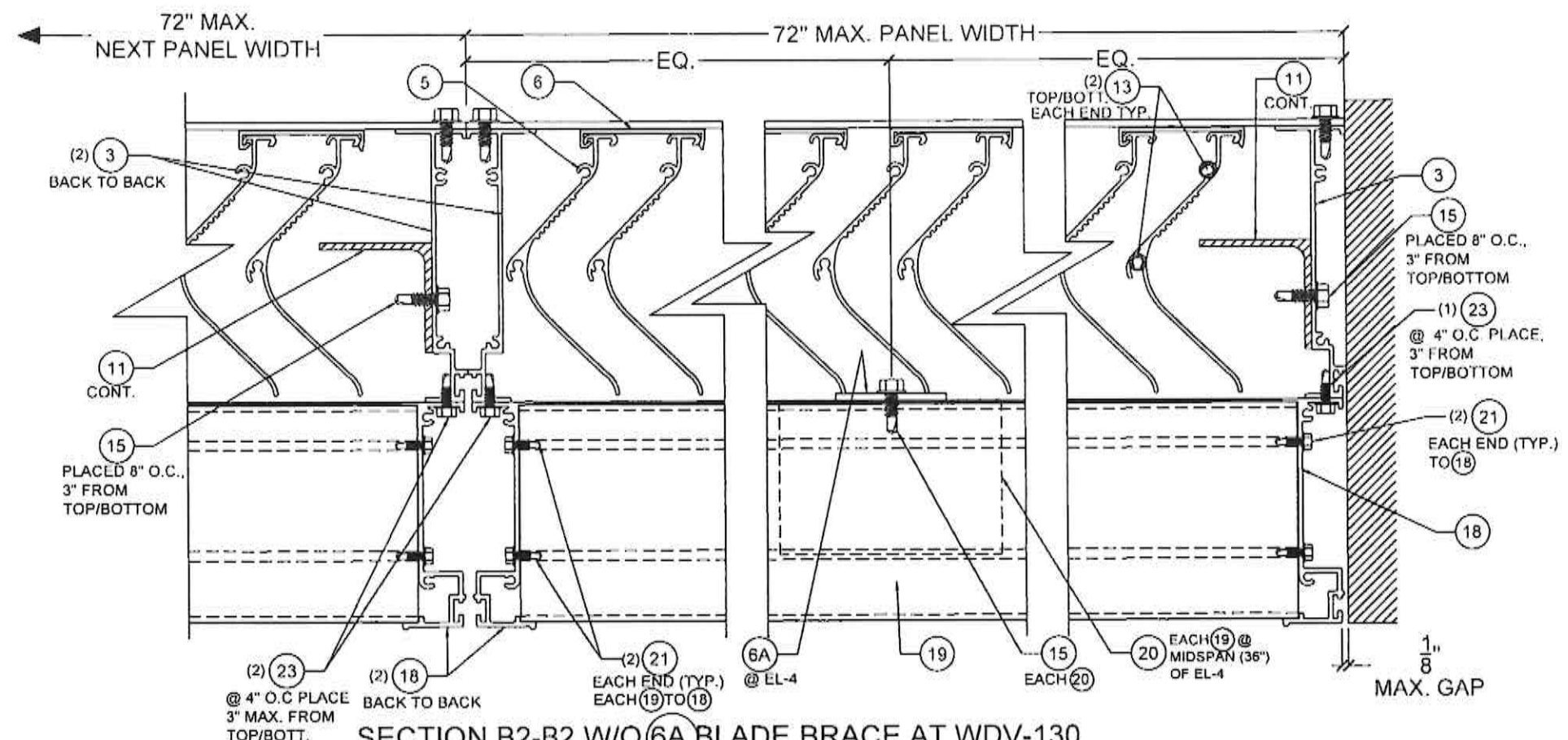


TILLET TESTING & ENGINEERING COMPANY
6395 N.W. 36th St., Ste. 300, Virginia Gardens, FL 33166
Phone : (305) 871-1530 Fax : (305) 871-1531

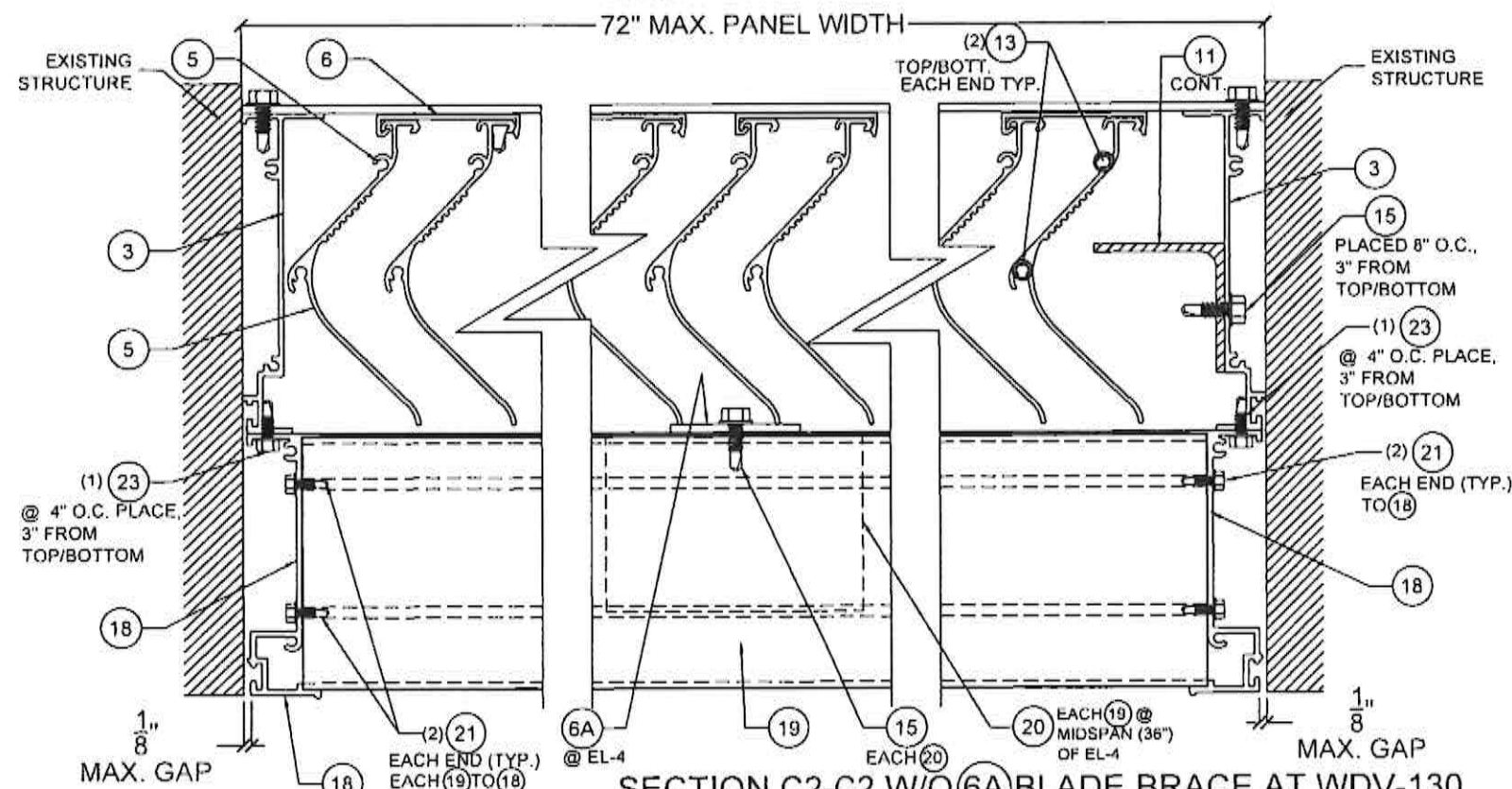


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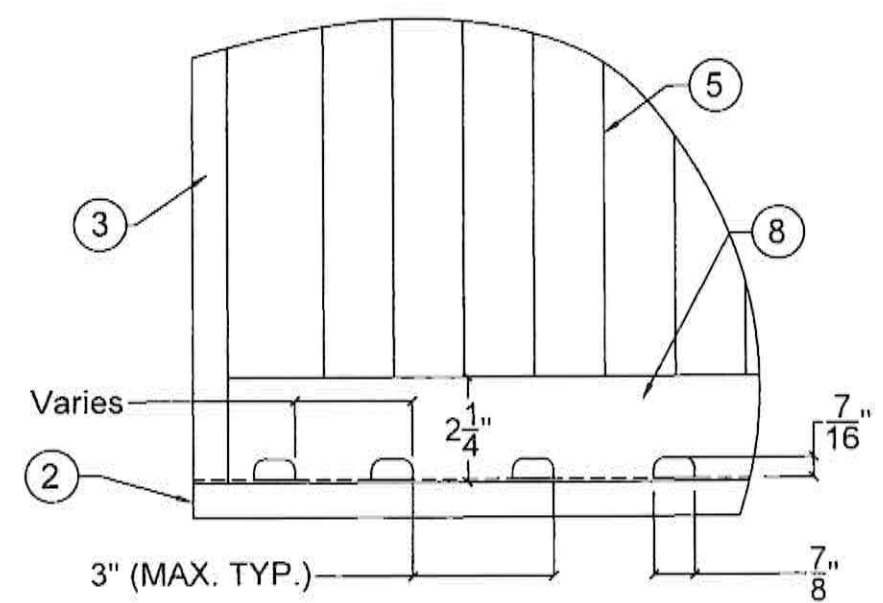
Y.M.
DRAWN BY:
7/14/23
DATE:
23-095
DRAWING No.
SHEET 10 OF 11



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



**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)

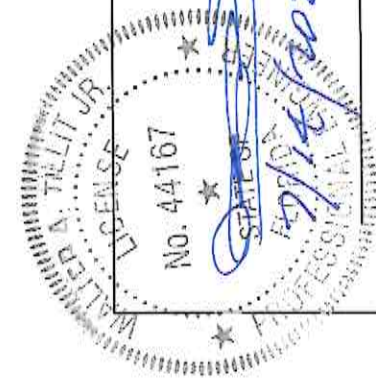
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

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



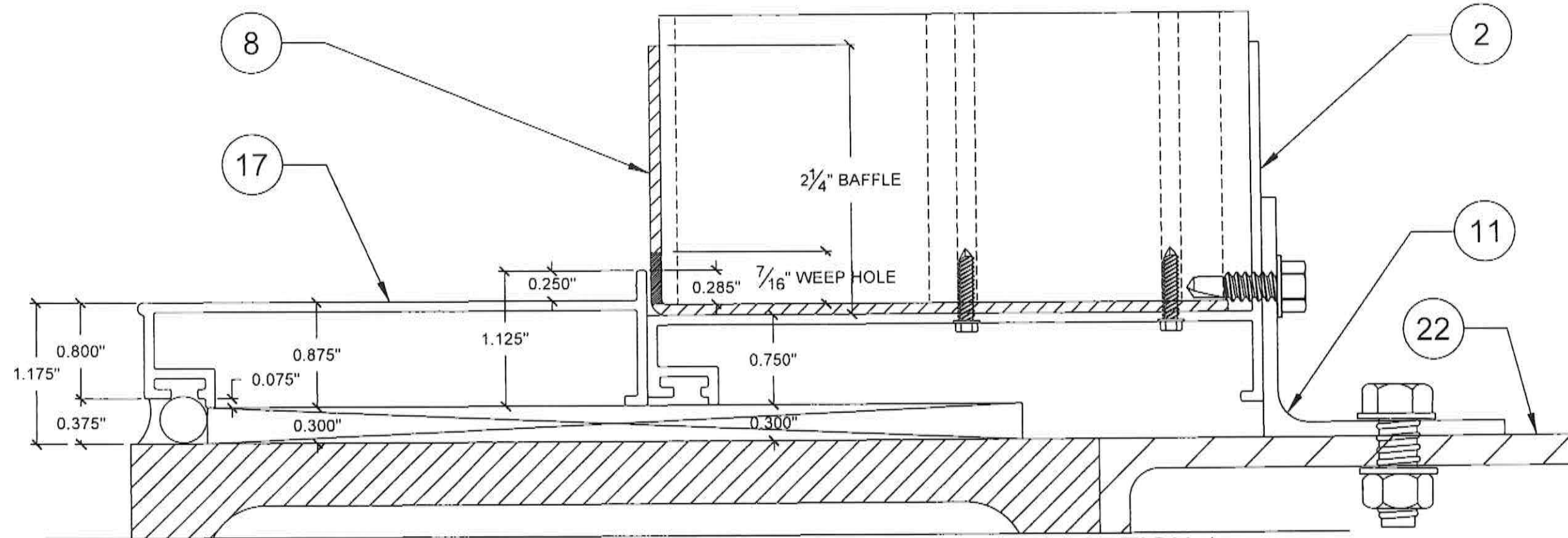
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TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VILLAGES GARDENS, FL 33166
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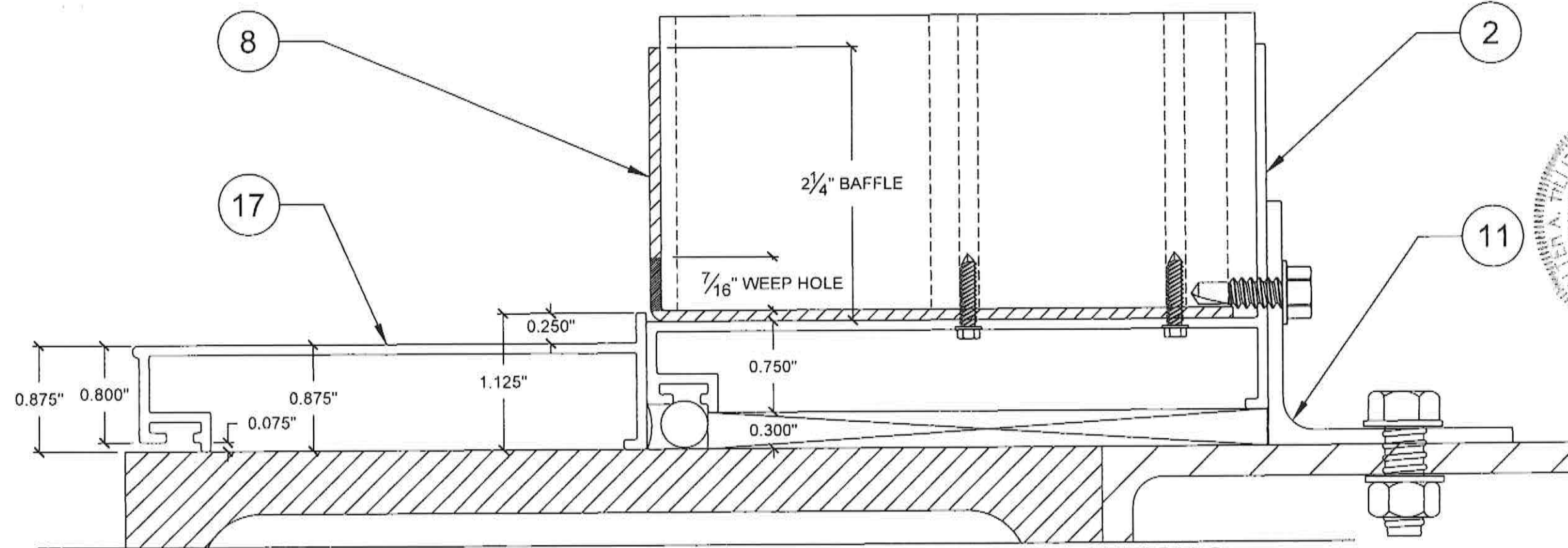


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DRAWING No.
SHEET 11 OF 11



DETAIL FOR WEEP HOLES OBSTRUCTION OPTION-1
1"=0'-1"



DETAIL FOR WEEP HOLES OBSTRUCTION OPTION-2
1"=0'-1"

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

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

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7/14/23		7/14/23		23-095		OF 11	
REV.	DATE	DESCRIPTION	REV.	DATE	DESCRIPTION		
1	6/20/2024		3	7/14/23			
2			4				