

Storm Smart Building Systems, LLC

Flood Smart - Flood Panels

(HVHZ & ANSI FM 2510)

GENERAL NOTES

- THE EXISTING HOST STRUCTURE MUST BE CAPABLE OF SUPPORTING THE LOADS IMPOSED BY THIS DESIGN AS VERIFIED BY THE ARCHITECT / ENGINEER OF RECORD. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS CONTAINED HEREIN.
- SYSTEM SHALL BE AS NOTED HEREIN. ALL REFERENCES TO EXTRUSIONS & INSTALLATION SHALL CONFORM TO THAT OF MANUFACTURER'S SPECIFICATIONS AS SUMMARIZED HEREIN.
- ALL SMS TO BE 316 STAINLESS STEEL (Fu=100 KSI MIN.) AND ALL THRU BOLTS TO BE 304 STAINLESS STEEL MIN. (Fu=100 KSI MIN.). PROVIDE 3 PITCHES MIN. PAST THREAD PLANE.
- ALL HOST CONCRETE SHALL BE 3000 PSI MIN COMPRESSIVE STRENGTH AND UNCRACKED. ALL HOST CMU SHALL BE ASTM C90 WITH 1.8 KSI MIN COMPRESSIVE STRENGTH.
- THIS SYSTEM SHALL BE INSTALLED ON A CONTINUOUS NORMAL-WEIGHT CONCRETE SLAB, MINIMUM 4" THICK, WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. SLAB SHALL BE REINFORCED WITH MINIMUM WELDED WIRE FABRIC , 6x6 W1.4, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER OF RECORD. SLAB SHALL BE CONTINUOUS BENEATH THE SYSTEM AND SHALL EXTEND A MINIMUM OF 1 FT BEYOND THE ATTACHED SYSTEM IN ALL APPLICABLE DIRECTIONS. SLAB IN PLACE SHALL EXPERIENCE NO ADDITIONAL BUOYANCY FORCES FROM INSTALLATION OF FLOOD BARRIER & PER THE ABOVE STIPULATIONS SHALL BE SUFFICIENT FOR INSTALLATION.
- ANCHOR EMBEDMENT AND MINIMUM EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER FINISHES. ANCHOR EMBEDMENT AND MINIMUM EDGE DISTANCES PROVIDED HEREIN ARE INTO CONCRETE OR CMU.
- THIS SYSTEM IS NOT DESIGNED FOR USE IN AREAS WITH BREAKING WAVES, BROKEN WAVES, OR FLOOD-WATER VELOCITIES GREATER THAN 5 FT/S.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE ONLY PERMITTED TO SHOW SITE-SPECIFIC CONDITIONS, HOWEVER ANY CHANGES, ALTERATIONS OR ADDITIONS MADE TO THE CONTENT OF THIS DOCUMENT WILL INVALIDATE THIS CERTIFICATION.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- NO CERTIFICATION OR REVIEW IS OFFERED THAT THE PROPOSED UNITS MEET ANY EGRESS REQUIREMENTS. ALL EGRESS ISSUES ARE TO BE ADDRESSED BY THE PERMITTING CONTRACTOR AND THE LOCAL BUILDING OFFICIAL.
- THIS SYSTEM HAS NOT BEEN TESTED FOR LARGE OR SMALL MISSILE IMPACT.
- THIS DOCUMENT CONSTITUTES A NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THE CONTRACTOR OR PERMIT HOLDER SHALL BE RESPONSIBLE FOR VERIFYING AND CERTIFYING THAT THE INFORMATION CONTAINED HEREIN IS APPLICABLE TO THE SPECIFIC SITE. WHERE SITE CONDITIONS DIFFER FROM THOSE SET FORTH IN THIS DOCUMENT, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE-SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS APPROVAL.

DESIGN CRITERIA:

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT VERSION OF THE FLORIDA BUILDING CODE.
- THIS ENGINEERING CERTIFICATION PROVIDES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, THAT THIS PRODUCT IS WATERTIGHT OR WILL PREVENT WATER INTRUSION INTO THE STRUCTURE AT ANY TIME OR FOR ANY REASON.
- THIS FLOOD BARRIER SYSTEM HAS BEEN DESIGNED FOR THE LOADS AND LOAD COMBINATIONS LISTED IN ASCE 7-22, SECTION 2.0 (COMBINATIONS OF LOADS) INCLUDING THE FOLLOWING FLOOD LOADS IN ACCORDANCE WITH ASCE 7-22 SECTION 5.4 (LOADS DURING FLOODING)
 - HYDROSTATIC LOADS:** CAUSED BY WATER WHICH IS EITHER STAGNANT OR MOVES AT VELOCITIES LESS THAN 5 FT/SEC, IN ACCORDANCE WITH ASCE 7-22, SECTION 5.4.
 - HYDRODYNAMIC LOADS:** HYDRODYNAMIC LOADS NOT CONSIDERED SINCE FLOW OF WATER IS MOVING AT VELOCITIES LESS THAN 5 FT/SEC IN ACCORDANCE WITH ASCE 7-22 SECTION 5.4.3.
 - WAVE LOADS:** ONLY NON-BREAKING WAVE ACTION IS CONSIDERED SINCE NON-BREAKING WAVES ON VERTICAL WALLS CAN ALSO BE COMPUTED AS HYDROSTATIC FORCES, IN ACCORDANCE WITH ASCE 7-22 SECTION 5.4.4 (WAVE LOADS).
 - DYNAMIC IMPACT LOADS:** PER ANSI FM 2510 SECTION 4.3
- A WATER DENSITY OF 64 PCF IS USED FOR THE DESIGN OF THIS PRODUCT.
- THIS SYSTEM IS NOT APPROVED FOR LARGE MISSILE IMPACT LOADS

ALUMINUM NOTES:

- ALL EXTRUSIONS SHALL BE 6063-T5 ALUMINUM ALLOY, U.N.O. ON DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.

DESIGN SCHEDULE NOTES:

- BARRIER WIDTH:** IS DEFINED AS THE DISTANCE BETWEEN OUTER POSTS OF BARRIER. IF MULTIPLE BAYS ARE USED, CENTER POSTS SHALL BE DISTRIBUTED EQUALLY ALONG BARRIER.
- BARRIER HEIGHT:** SHALL BE MEASURED FROM FINISHED GROUND SURFACE TO TOP OF TOP PLANK.
- CENTER/CORNER POSTS (IF REQUIRED) SHALL BE INSTALLED PER DETAILS ON SHEET 2.
- FOR LEFT AND RIGHT HOST ATTACHMENTS, SEE DETAILS ON SHEET 2.

WIND LOAD NOTES:

THIS FLOOD BARRIER SYSTEM IS DESIGNED FOR A MAXIMUM ALLOWABLE (ASD) WIND LOAD PRESSURE OF +/- 60 PSF. THIS MAXIMUM PRESSURE CORRESPONDS TO 195 MPH ULTIMATE WIND SPEED, EXPOSURE D, AT GRADE PER ASCE 7-22 OTHER STRUCTURES METHOD.

SINGLE BAY
CONFIGURATION
DIAGRAM

CORNER
CONFIGURATION
DIAGRAM

DOUBLE BAY OR MULTI-BAY
CONFIGURATION DIAGRAM.
(TRIPLE SHOWN)

TYPICAL CONFIGURATION DIAGRAMS
SEE FOLLOWING SHEETS FOR SPECIFIC
DETAILS AND INSTALLATION INSTRUCTIONS
AND LIMITATIONS.

PRODUCT CERTIFICATION:

THIS PRODUCT IS CLASSIFIED AS A "FLOOD BARRIER FOR OPENING BARRIER APPLICATIONS" ATTACHED TO THE BUILDING'S STRUCTURAL ENVELOPE. THIS PRODUCT IS NOT DESIGNED FOR FREESTANDING OR PERIMETER APPLICATIONS.

SHEET INDEX

- COVER - NOTES
- 2-4) CONFIGURATION DIAGRAMS
- 5-6) CENTER BRACE INSTALLATION DIAGRAMS
- 7) PARTS
- 8) TRACK ASSEMBLY DIAGRAM
- 9-11) REMOVABLE INSTALLATION DIAGRAMS
- 12-14) PERMANENT INSTALLATION DIAGRAMS
- 15-16) CONCRETE PAD INSTALLATION DETAILS
- 17) ISOLATED PAD INSTALLATION DETAIL

Jeffrey
C. Friant

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by Jeffrey C.
Friant
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14:02:48 -04'00'

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Jeffrey C. Friant, P.E.
FL60974
10/13/26

JEFFREY C. FRIANT
LICENSE
No. 60974
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

SPECIALTY
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Title: FLOOD SMART -
FLOOD PANELS

FLORIDA BUILDING CODE
ANSI/FM 2510

STORM
SMART

6182 Idlewild Street
Fort Myers, FL 33966
(239) 938-1000

Signed	Name	Date	
Drawn	JCF	10/13/26	
Chk'd	SW	10/13/26	
SCALE: AS NOTED			
DATE: 10/13/26			
JOB #: 24-3455			
SHEET			
1 of 17			

Storm Smart Building Systems, LLC

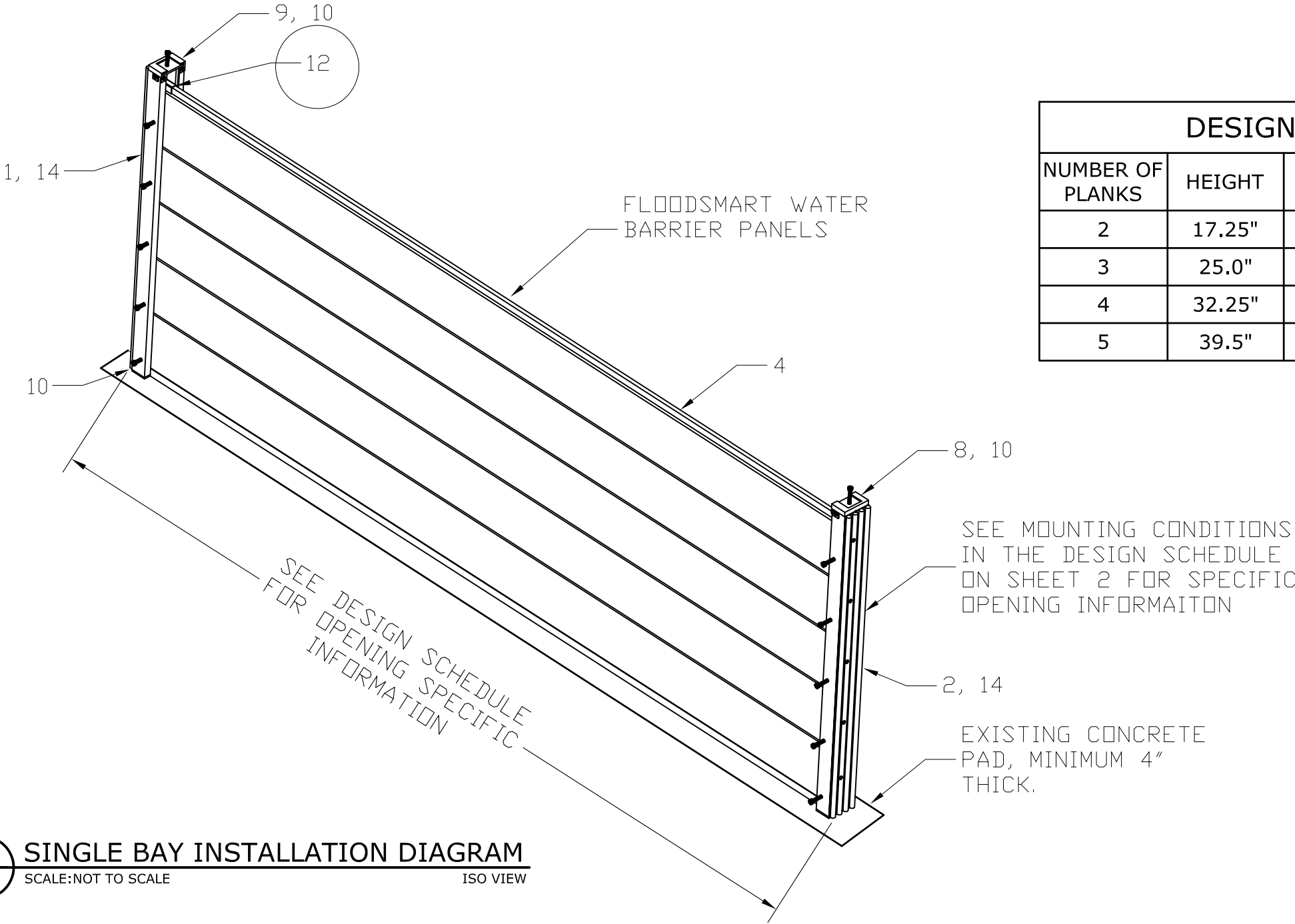
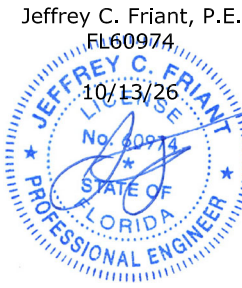
Flood Smart - Single Bay Installation Diagram

SEE SHEET 8 FOR A COMPLETE LIST OF COMPONENTS

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C. Friant

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DESIGN SCHEDULE			
NUMBER OF PLANKS	HEIGHT	MAX WIDTH ANSI FM 2510	MAX WIDTH ALLOWED *
2	17.25"	6'-3"	12'-0"
3	25.0"	6'-3"	11'-0"
4	32.25"	6'-3"	10'-0"
5	39.5"	6'-3"	9'-0"

1
3

SINGLE BAY INSTALLATION DIAGRAM

SCALE: NOT TO SCALE

ISO VIEW

- DESIGN SCHEDULE NOTES:
- 1) THIS DOCUMENT SHOWS THE 5-PANEL CONFIGURATION. THIS SYSTEM CAN BE CONFIGURED WITH 2 TO 5 PANELS. ALL FLOOD BARRIERS ARE SIMILAR IN HOW THEY ARE INSTALLED AND ASSEMBLED.
- 2) THE MAXIMUM WIDTH FOR ANSI FM 2510 CONFORMANCE IS 6'-3"
- 3) WIDTHS UP TO 12'-0" ARE ALLOWED BUT ARE NOT IN CONFORMANCE WITH ANSI FM 2510 AND THUS MAY LEAK MORE THAN ANSI FM 2510 ALLOWS FOR ITS CERTIFICATION WHILE STILL PROVIDING A HIGH LEVEL OF PROTECTION FROM WATER INTRUSION.
- 4) "WIDTH" IS DEFINED AS TRACK TO TRACK OR FROM WALL SURFACE TO CENTER OF POST. CORNERS ARE MEASURED FROM THE OUT SIDE EDGE TO WALL SURFACE OR TO CENTER OF POST.
- 5) REQUIRED DESIGN PRESSURES FOR INSTALLATION SHALL BE CALCULATED AS A SITE SPECIFIC BASIS AND LIMITED TO THE ± 60 PSF ALLOWED UNDER THIS APPROVAL.
- 6) IF PROJECT REQUIREMENTS ARE OUTSIDE THE LIMITATIONS OF THIS APPROVAL, CONTACT THE MANUFACTURE AS SITE-SPECIFIC ENGINEERING MAY BE POSSIBLE.

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(239) 938-1000

Date	10/13/26	10/13/26
Name	JCF	SW
Signed	Drawn	Chk'd

SCALE: AS NOTED

DATE: 10/13/26

JOB #: 24-3455

SHEET

SEE SHEET 8 FOR A COMPLETE LIST OF COMPONENTS

Jeffrey C. Friant, P.E.
FL60974,
10/13/26



Title: FLOOD SMART - FLOOD PANELS	FLORIDA BUILDING CODE ANSI/FM 2510
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Chk'd	SW	10/13/26

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DATE: 10/13/26
JOB #: 24-3455
SHEET
3 of **17**



Storm Smart Building Systems, LLC

Flood Smart - Corner Installation Diagram

SEE SHEET 8 FOR A COMPLETE LIST OF COMPONENTS

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FL60974

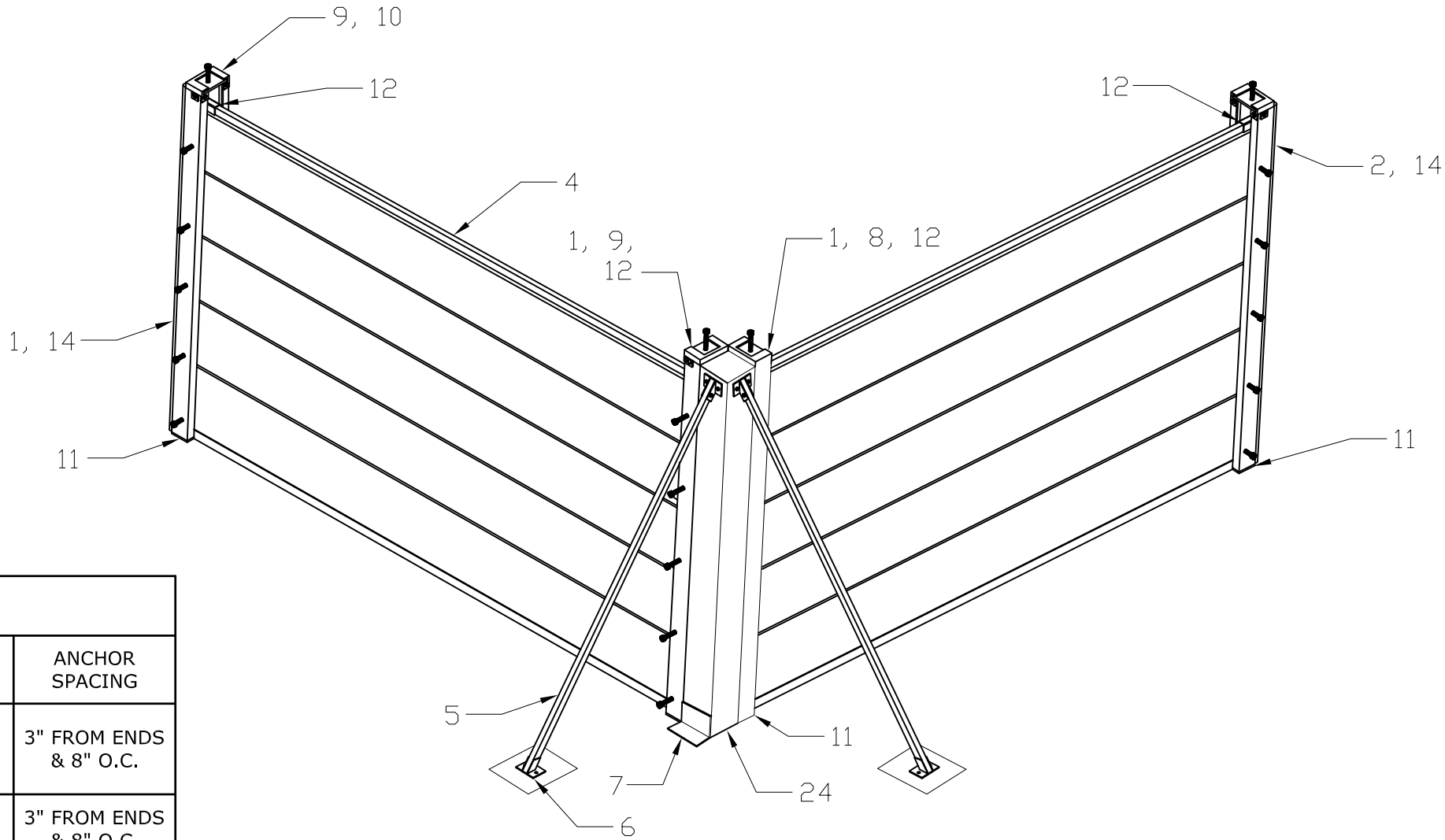
10/13/26

JEFFREY C. FRIANT

No. 60974

STATE OF FLORIDA

PROFESSIONAL ENGINEER



1
4

CORNER INSTALLATION DIAGRAM

SCALE: NOT TO SCALE

ISO VIEW

ANCHOR TABLE					
MOUNTING TYPE	SUBSTRATE	ANCHOR TYPE	EMBEDMENT	EDGE DIST.	ANCHOR SPACING
REMOVABLE	3 KSI CONCRETE	1/4-20 HILLMAN GROUP FEMALE SOLIDSET	1.25"	3"	3" FROM ENDS & 8" O.C.
	3 KSI CONCRETE	1/4-20 DEWALT PANELMATE INSERT	1.625"	3"	3" FROM ENDS & 8" O.C.
	WOOD (G = 0.42 MIN.)	1/4-20 DEWALT PANELMATE INSERT	1.625"	0.75"	3" FROM ENDS & 6" O.C.
PERMANENT	3 KSI CONCRETE	Ø5/16"DEWALT ULTRACON	2.5"	2.0"	3" FROM ENDS & 8" O.C.
	WOOD (G = 0.42 MIN.)	Ø5/16"DEWALT ULTRACON	2.5"	0.75"	3" FROM ENDS & 6" O.C.
	STEEL (MIN 16GA, Fy=36KSI)	#14 TEKS OR SMS	3 TREADS BEYOND MATERIAL	0.5"	3" FROM ENDS & 6" O.C.
	ALUMINUM (MIN 1/8" THICK, 6063-T5)	#14 TEKS OR SMS	3 TREADS BEYOND MATERIAL	0.5"	3" FROM ENDS & 6" O.C.

FASTENERS AND CONNECTORS WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL COMPLY WITH FBC BUILDING, 9TH EDITION (2026), SECTION 1711 AND TABLE 1711.1 (BASED ON DISTANCE AND EXPOSURE). FULLY EMBEDDED FASTENERS IN CONCRETE OR MORTAR ARE EXEMPT. VERIFY DISTANCE AND EXPOSURE WITH AHJ.

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JOB #: 24-3455

SHEET

4 of 17

24-3455 - Flood Smart Flood Panels - L48080 - Installation Instructions

Storm Smart Building Systems, LLC

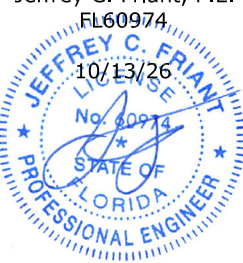
Flood Smart - Center Brace Installation Details

SEE SHEET 8 FOR A COMPLETE LIST OF COMPONENTS

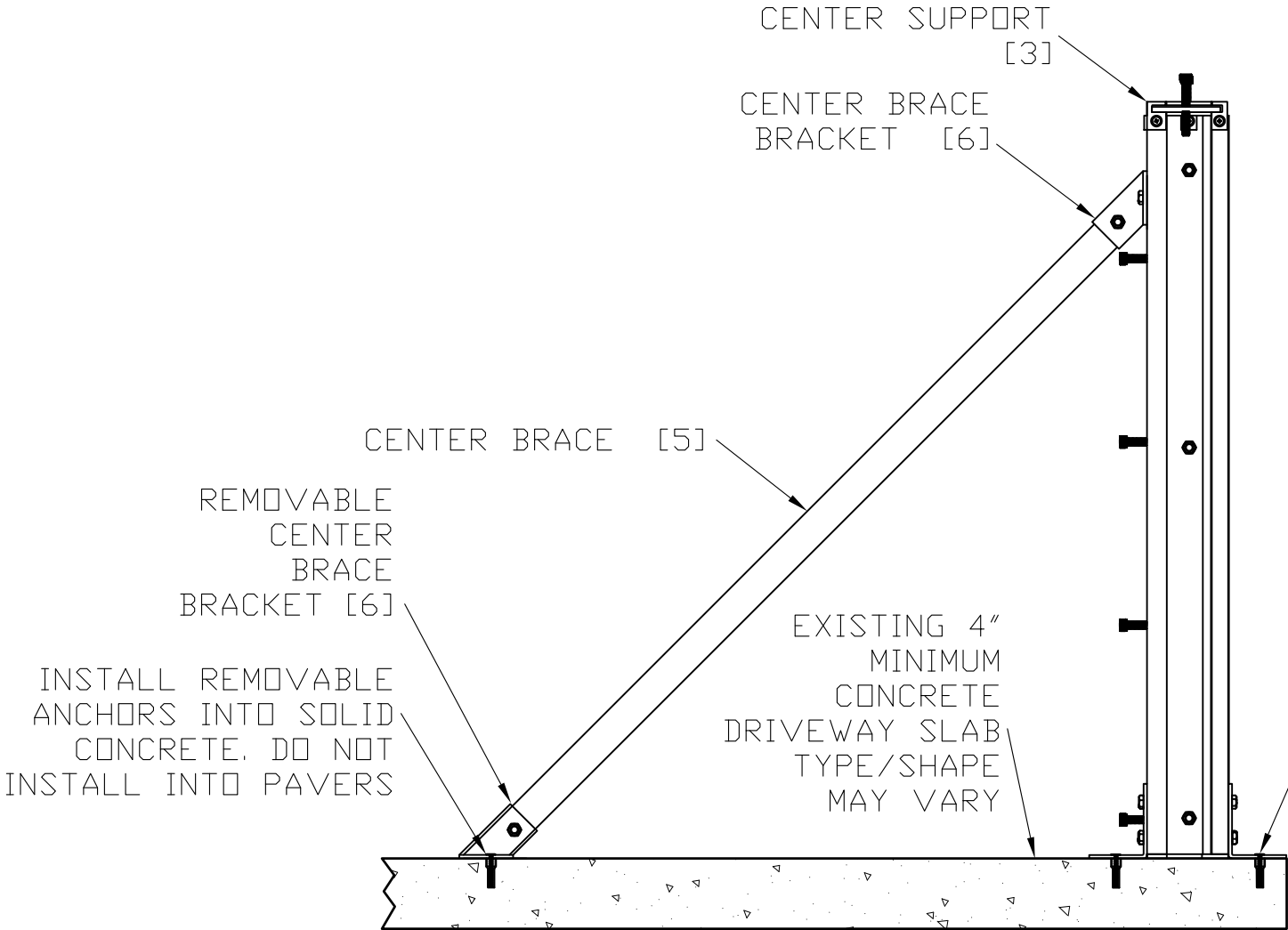
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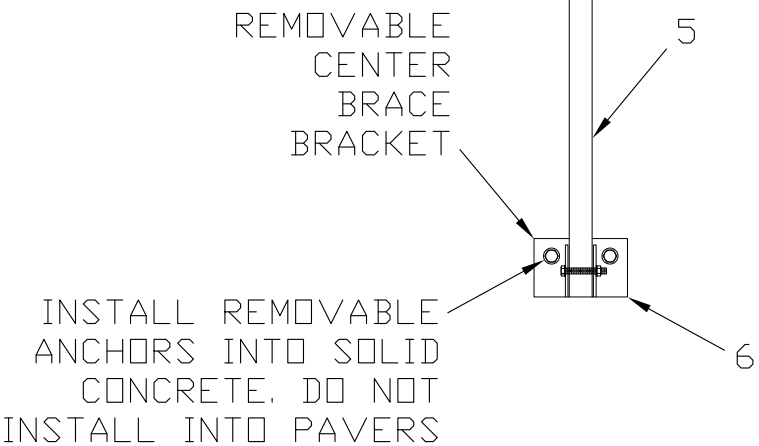
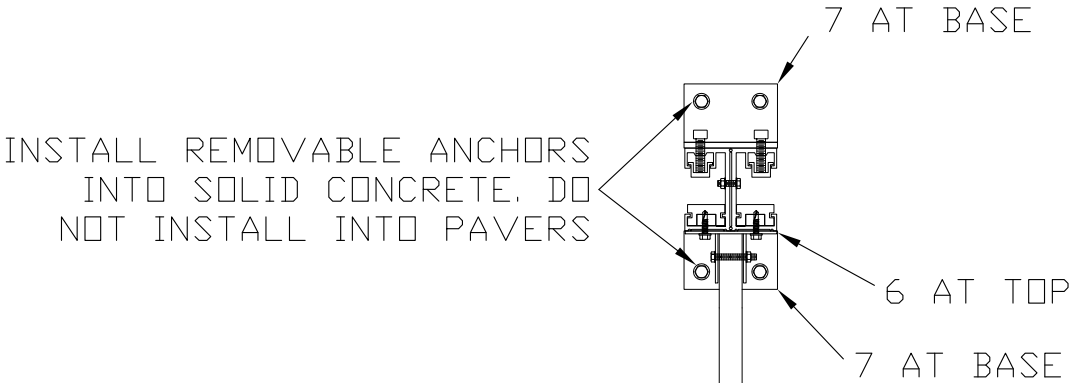
1
5

CENTER BRACE INSTALLATION DETAIL

SCALE:NOT TO SCALE

SIDE VIEW

REMOVE REMOVABLE CENTER BRACE BRACKET TO EXISTING OR NEW CONCRETE SLAB. IMPROVED SLAB IS ALLOWED, PAVERS ARE NOT ALLOWED. CONCRETE SLAB CAN BE BELOW PAVERS SO LONG AS IT IS A MINIMUM OF 4" THICK. IF NO SLAB EXISTS, AN ISOLATED CONCRETE PAD IS REQUIRED. PROTECTIVE COVERS SHALL BE USED TO PROTECT THE RECESSED ANCHORS.



2
5

CENTER BRACE INSTALLATION DETAIL

SCALE:NOT TO SCALE

TOP VIEW

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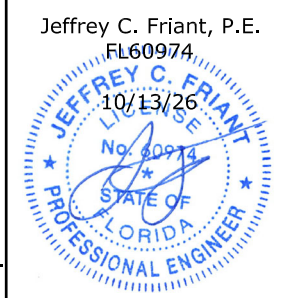
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Chk'd	SW	10/13/26

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5 of 17

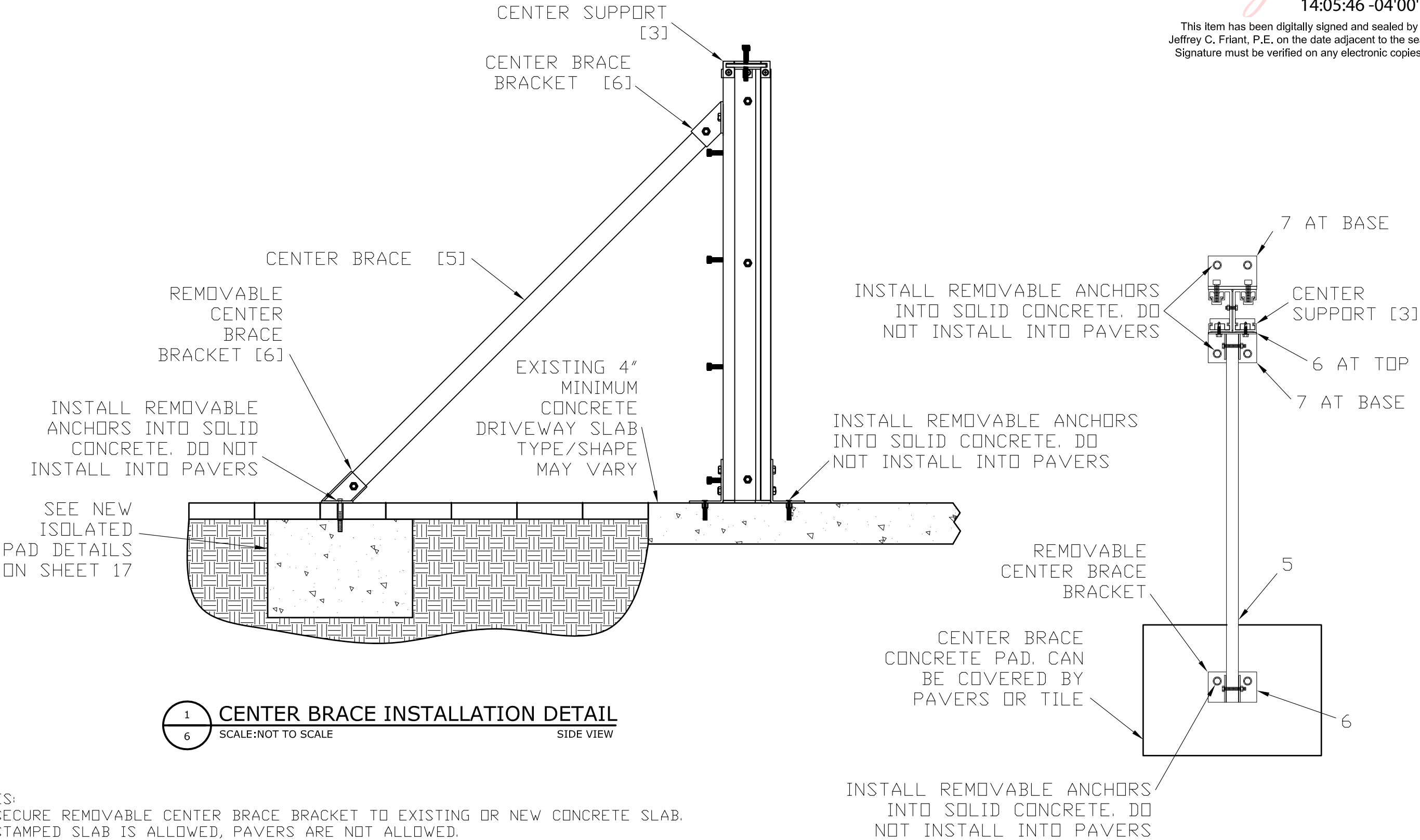
Storm Smart Building Systems, LLC
Flood Smart - Center Brace Installation Details

SEE SHEET 8 FOR A COMPLETE LIST OF COMPONENTS

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1
6
CENTER BRACE INSTALLATION DETAIL
SCALE: NOT TO SCALE
SIDE VIEW

- NOTES:
1. SECURE REMOVABLE CENTER BRACE BRACKET TO EXISTING OR NEW CONCRETE SLAB.
 2. STAMPED SLAB IS ALLOWED, PAVERS ARE NOT ALLOWED.
 3. A CONCRETE SLAB CAN BE BELOW PAVERS SO LONG AS IT IS A MINIMUM OF 4" THICK.
 4. IF NO SLAB EXISTS, AN ISOLATED CONCRETE PAD IS REQUIRED.
 5. PROTECTIVE COVERS SHALL BE USED TO PROTECT THE RECESSED ANCHORS.

2
6
CENTER BRACE INSTALLATION DETAIL
SCALE: NOT TO SCALE
TOP VIEW

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Storm Smart Building Systems, LLC

Flood Smart - Parts List

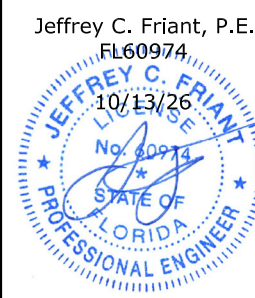
SEE SHEET 8 FOR A COMPLETE LIST OF COMPONENTS

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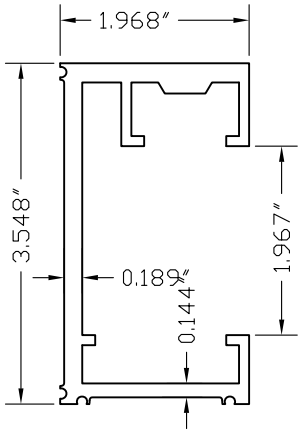
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DATE: 10/13/26

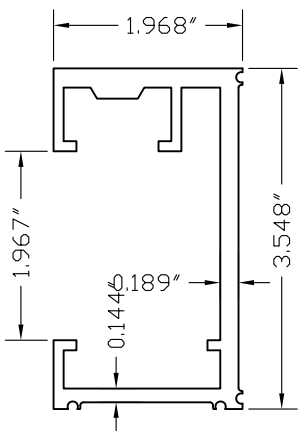
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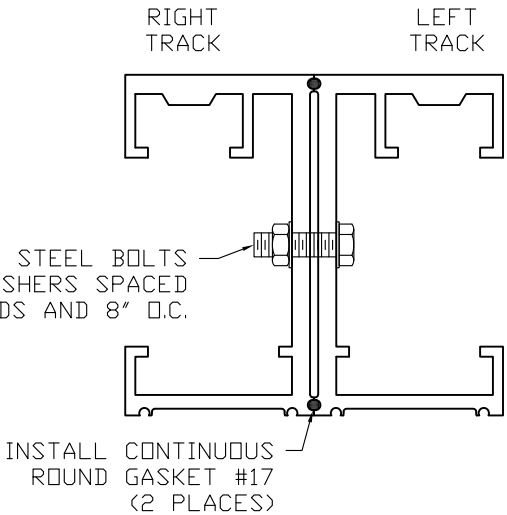
1 LEFT TRACK

7 SCALE: 50% ALUMINUM EXTRUSION



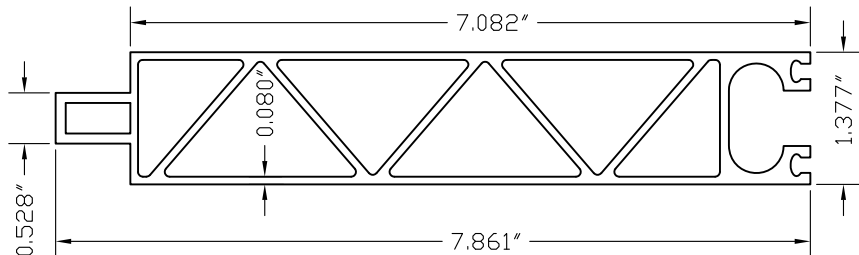
2 RIGHT TRACK

7 SCALE: 50% ALUMINUM EXTRUSION



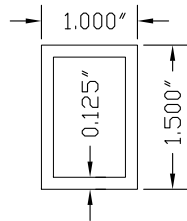
3 CENTER POST

7 SCALE: 50% ALUMINUM ASSEMBLY



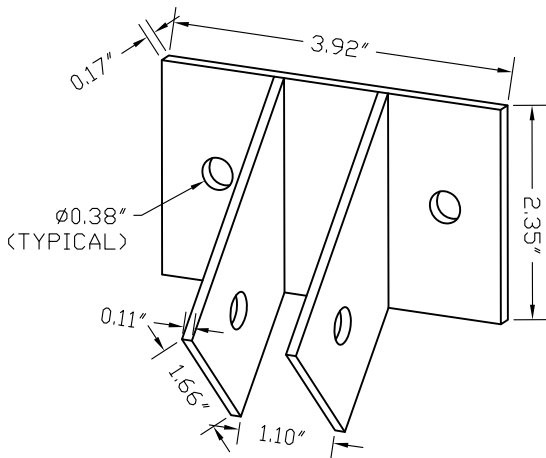
4 PLANK

7 SCALE: 50% ALUMINUM EXTRUSION



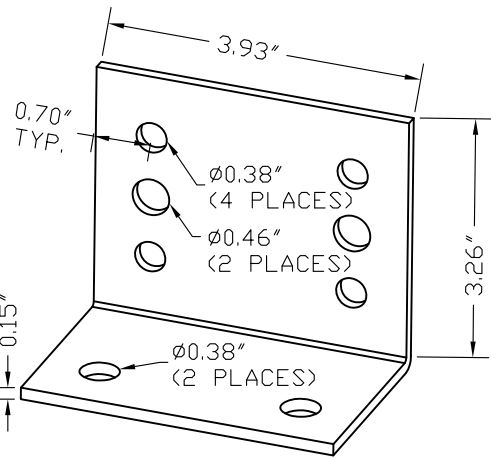
5 BRACE BAR

7 SCALE: 50% STAINLESS STEEL



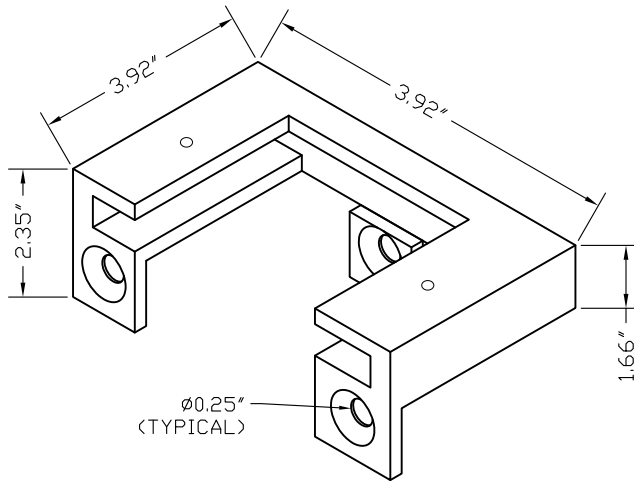
6 BRACE BRACKET

7 SCALE: N.T.S. STAINLESS STEEL



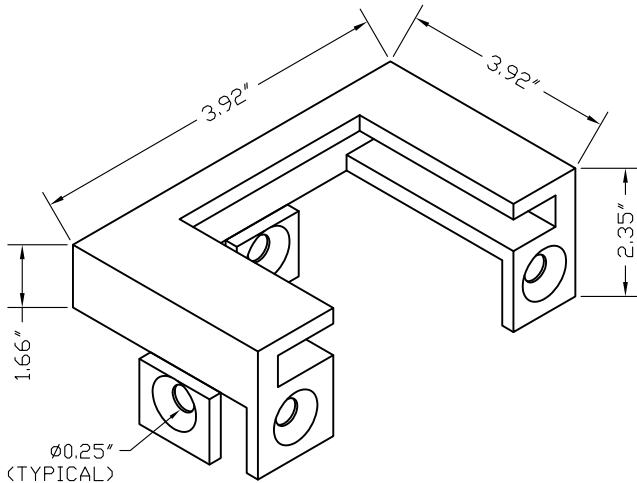
7 CENTER POST BASE ANGLE

7 SCALE: N.T.S. STAINLESS STEEL



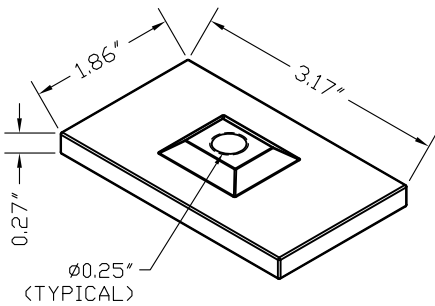
8 TRACK CAP

7 SCALE: N.T.S. CAST ALUMINUM



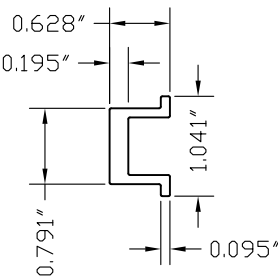
9 TRACK CAP

7 SCALE: N.T.S. CAST ALUMINUM



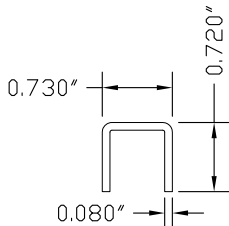
10 COMPRESSION PLATE

7 SCALE: N.T.S. STAINLESS STEEL



11 COMPRESSION PLATE

7 SCALE: 50% ALUMINUM EXTRUSION



10 PLANK PROTECTOR

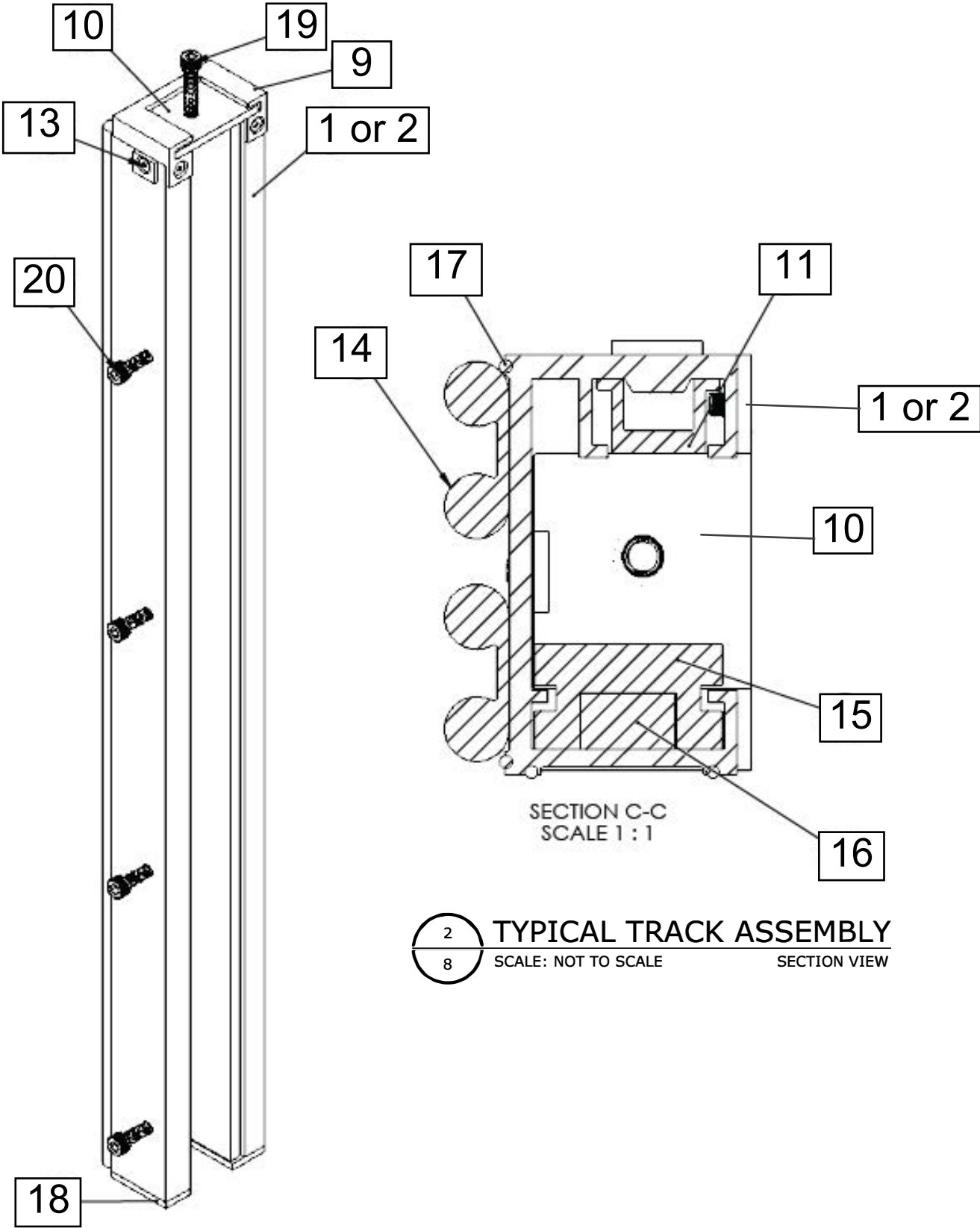
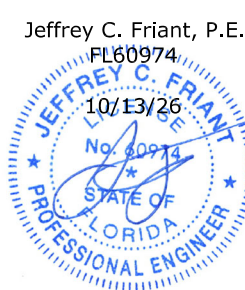
7 SCALE: 50% STAINLESS STEEL

Storm Smart Building Systems, LLC
Flood Smart - General Assembly Diagram

Jeffrey C. Friant

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2 TYPICAL TRACK ASSEMBLY
8 SCALE: NOT TO SCALE SECTION VIEW

1 TYPICAL TRACK ASSEMBLY
8 SCALE: NOT TO SCALE ISO VIEW

PARTS LIST		
PART NUMBER	DESCRIPTION	MATERIAL
1	LEFT TRACK	ALUMINUM
2	RIGHT TRACK	ALUMINUM
3	CENTERPOST	ALUMINUM
4	PLANK	ALUMINUM
5	BRACE	STAINLESS STEEL
6	CENTER POST BRACE BRACKET	STAINLESS STEEL
7	CENTER POST BASE ANGLE	STAINLESS STEEL
8	CAP	CAST ALUMINUM
9	CAP	CAST ALUMINUM
10	COMPRESSION PLATE	CAST ALUMINUM
11	TRACK PRESSURE PLATE	ALUMINUM
12	M10-30 SCREW	STAINLESS STEEL
13	M5 SCREW	STAINLESS STEEL
14	BACK GASKET (OPTIONAL)	EDPM
15	"H" GASKET	EDPM
16	SQUARE GASKET	EDPM
17	ROUND GASKET	EDPM
18	DUR 30 A BOTTOM GASKET	EDPM
19	M10-40 SCREW	STAINLESS STEEL
20	M10-30 SCREW	STAINLESS STEEL
21	UPPER PLANK BOTTOM GASKET	EDPM
22	BOTTOM PLANK BOTTOM GASKET	EDPM
23	PLANK CAP	PLASTIC
24	1/4" THICK TUBE	6063-T6 ALUMINUM
25	1/4" THICK TUBE	6063-T6 ALUMINUM
26	1/8" THICK ANGLE	6063-T6 ALUMINUM

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Info@specialtyengineeringnservices.com
CA 32371

Title: FLOOD SMART -
FLOOD PANELS
FLORIDA BUILDING CODE
ANSI/FM 2510

STORM
SMART
6182 Idlewild Street
Fort Myers, FL 33966
(239) 938-1000

Date	10/13/26
Name	JCF
Signed	SW
Drawn	Chk'd

SCALE: AS NOTED
DATE: 10/13/26
JOB #: 24-3455
SHEET 8 of 17

Storm Smart Building Systems, LLC

Flood Smart - Removable Track Installation Details

Jeffrey C. Friant

Digitally signed by Jeffrey C. Friant
Date: 2026.10.16 14:06:59 -04'00'

Jeffrey C. Friant, P.E.
FL60974
10/13/26

JEFFREY C. FRIANT

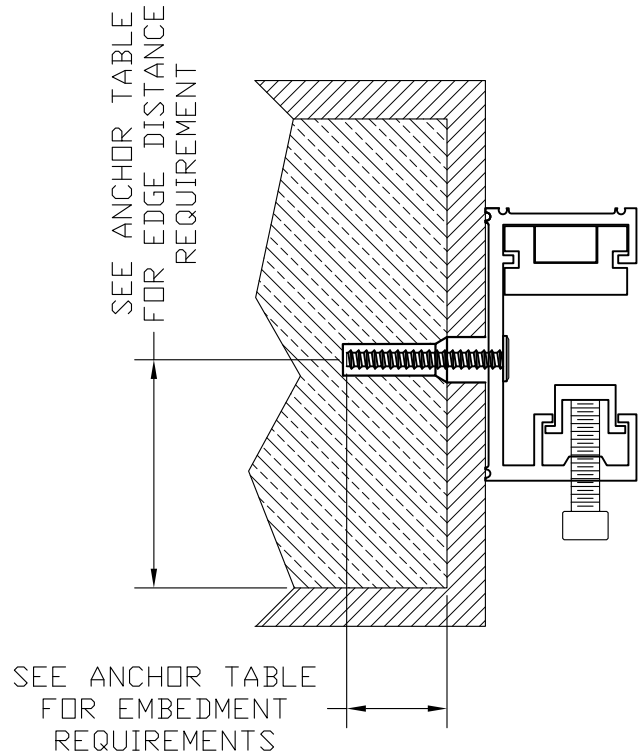
FLORIDA

PROFESSIONAL ENGINEER

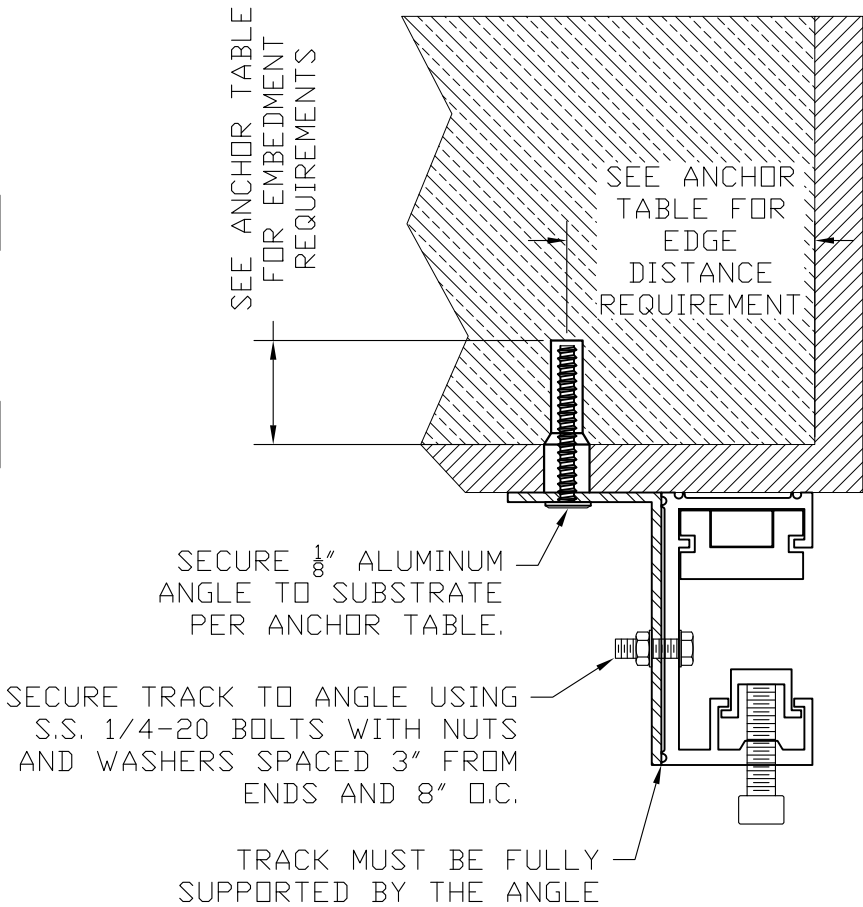
This item has been digitally signed and sealed by Jeffrey C. Friant, P.E. on the date adjacent to the seal. Signature must be verified on any electronic copies.

- NOTES:
1. VERIFY SUBSTRATE THEN SELECT ANCHOR TYPE
 2. SEE ANCHOR TABLE FOR END CONDITION, EMBEDMENT AND SPACING REQUIREMENTS FOR ANCHOR TYPE BEING USED.
 3. STUCCO OR OTHER EXTERIOR FINISHES ARE NOT INCLUDED IN EMBEDMENT OR EDGE DISTANCE REQUIREMENTS.
 4. INSTALL REMOVABLE ANCHORS PER MANUFACTURER'S INSTRUCTIONS USING ANCHOR TABLE REQUIREMENTS PROVIDED IN THE ANCHOR TABLE.

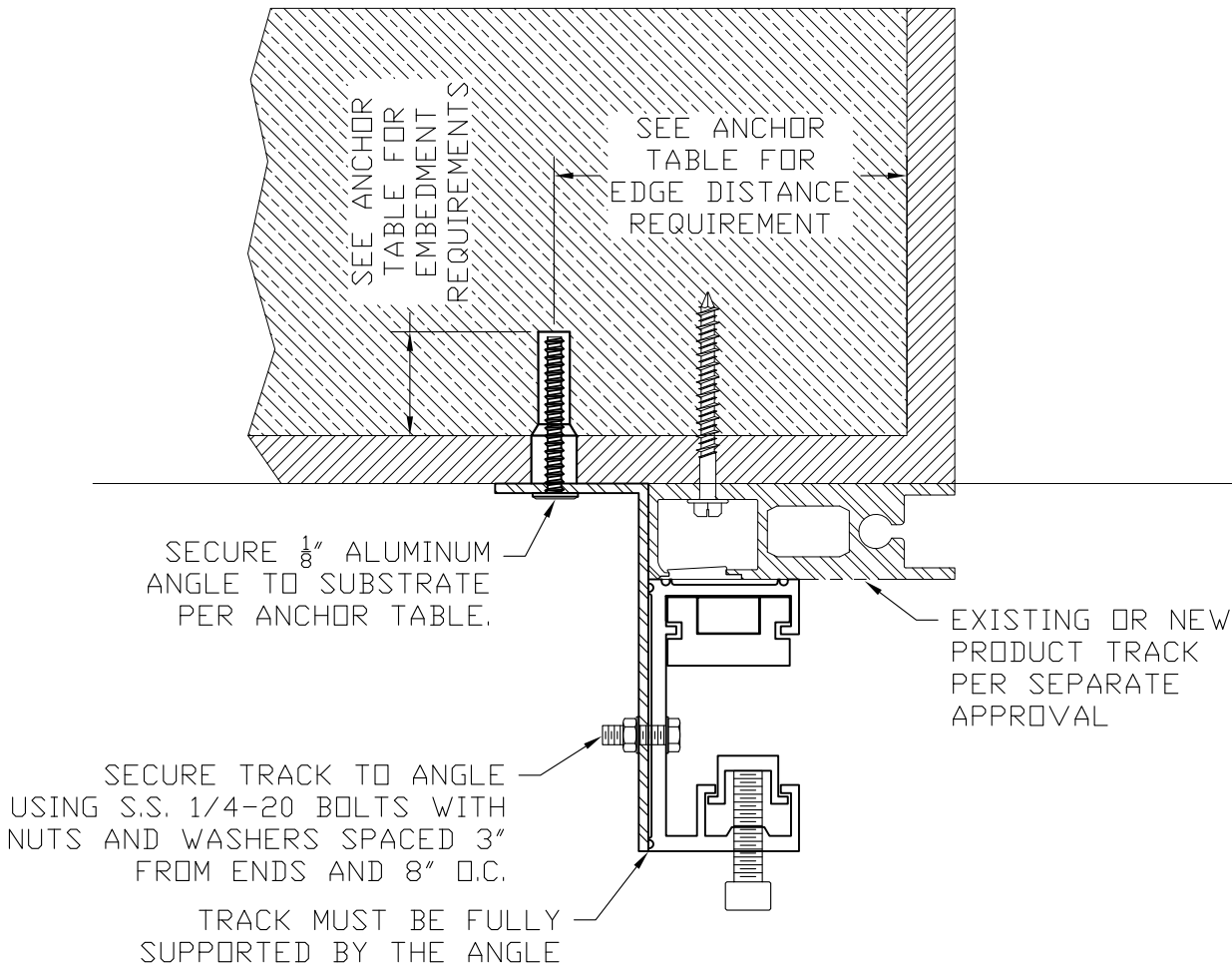
BUCK MOUNT - REMOVABLE



FACE MOUNT - REMOVABLE



FACE MOUNT - REMOVABLE
(w/ROLL DOWN TRACK)



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Drawn	JCF	10/13/26
Chk'd	SW	10/13/26

SCALE: AS NOTED

DATE: 10/13/26

JOB #: 24-3455

SHEET

9 of 17

Storm Smart Building Systems, LLC

Flood Smart - Removable Center Brace Installation Details

Jeffrey C. Friant, P.E.

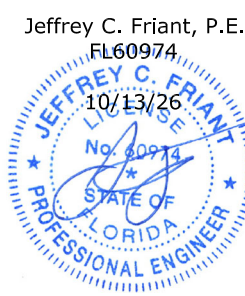
FL60974

10/13/26

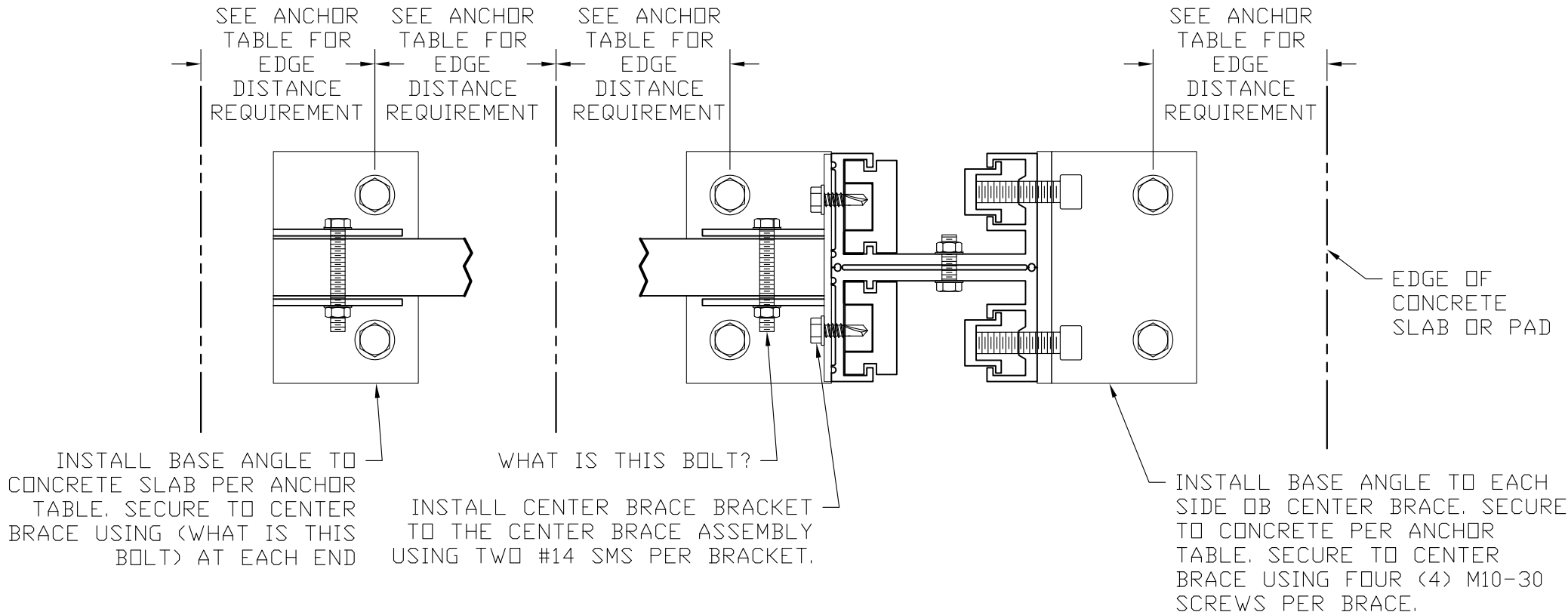
Digitally signed by Jeffrey C. Friant

Date: 2026.10.16 14:07:24 -04'00'

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CENTER POST AND BRACE BASE - REMOVABLE



- NOTES:
1. REMOVABLE ANCHORS SHALL ONLY BE INSTALLED INTO POURED CONCRETE FOR CENTER BRACE BRACKET INSTALLATION.
 2. REMOVABLE ANCHORS CAN BE SET INTO CONCRETE BELOW PAVERS, SEE DETAIL 1/16.
 3. PERMANENT OR REMOVABLE ANCHORS SHALL NOT BE SET INTO PAVERS UNDER ANY CIRCUMSTANCE.
 4. INSTALL REMOVABLE ANCHORS PER MANUFACTURER'S INSTRUCTIONS.
 5. SEE ANCHOR TABLE FOR SPECIFIC EMBEDMENT AND EDGE DISTANCE REQUIREMENTS.

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Signed	Name	Date
Drawn	JCF	10/13/26
Chk'd	SW	10/13/26

SCALE: AS NOTED

DATE: 10/13/26

JOB #: 24-3455

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10 of 17

Storm Smart Building Systems, LLC

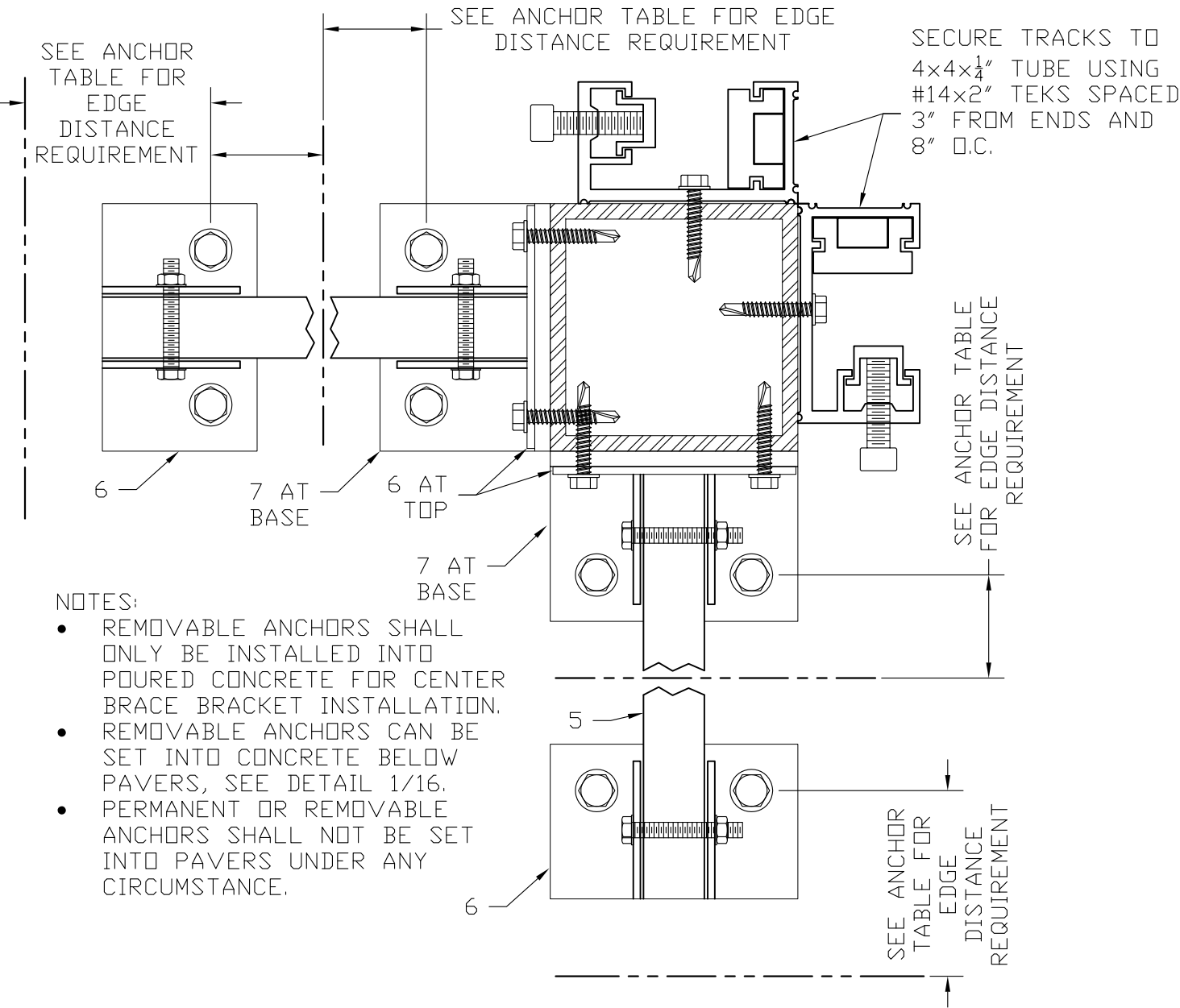
Flood Smart - Removable Corner Brace Installation Details

Jeffrey C. Friant, P.E.
FL60974
10/13/26
No. 30974
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Jeffrey C. Friant
Date: 2026.10.16 14:07:47 -04'00'

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INSTALL REMOVABLE ANCHORS PER MANUFACTURER'S INSTRUCTIONS. SEE ANCHOR TABLE FOR SPECIFIC EMBEDMENT AND EDGE DISTANCE REQUIREMENTS.

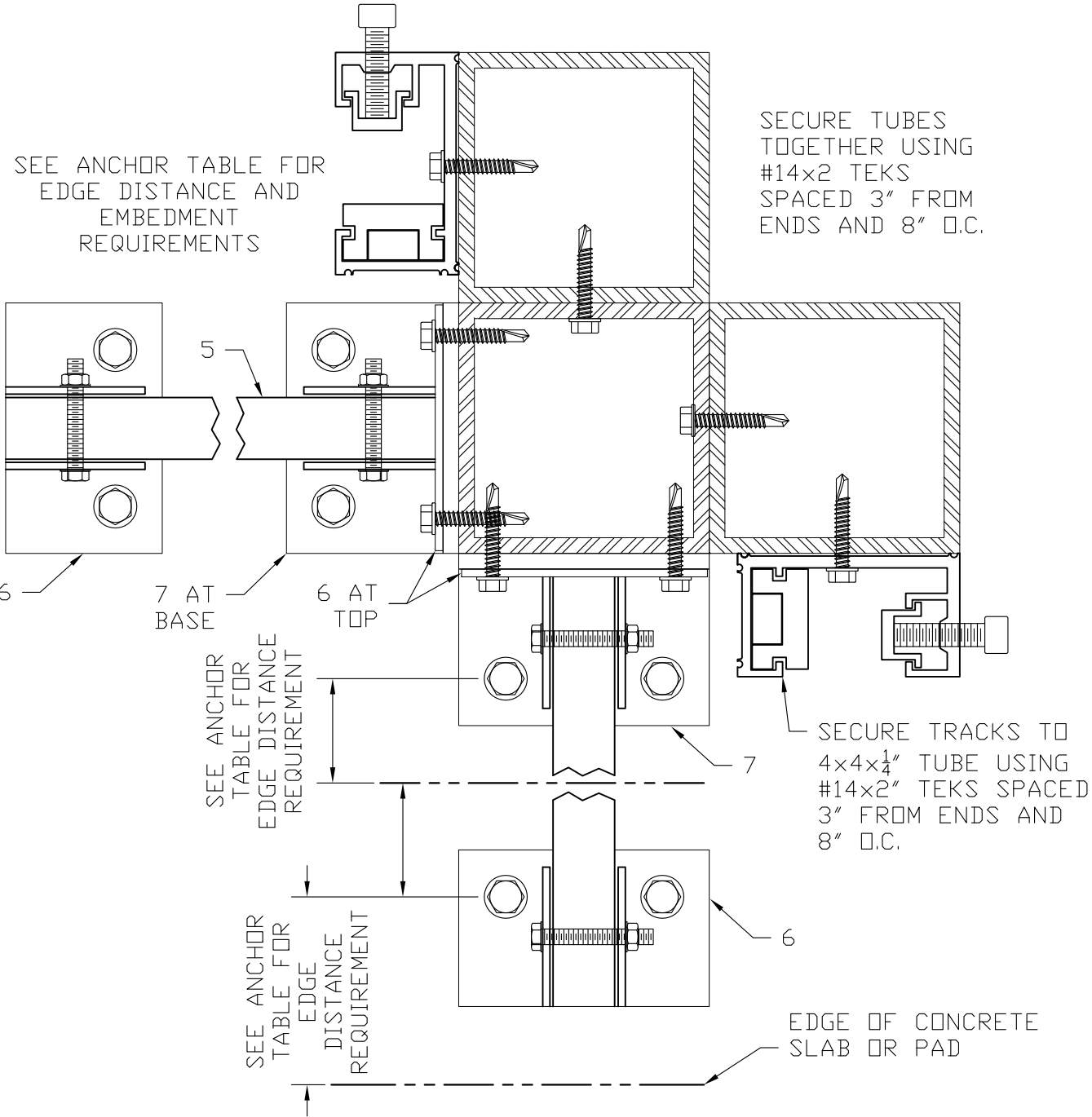


1
11

REMOVABLE OUTSIDE CORNER INSTALLATION DETAIL

SCALE: NOT TO SCALE

PLAN VIEW



2
11

REMOVABLE INSIDE CORNER INSTALLATION DETAIL

SCALE: NOT TO SCALE

PLAN VIEW

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STORM SMART

6182 Idlewild Street
Fort Myers, FL 33966
(239) 938-1000

Signed	Name	Date
Drawn	JCF	10/13/26
Chk'd	SW	10/13/26

SCALE: AS NOTED

DATE: 10/13/26

JOB #: 24-3455

SHEET

11 of 17

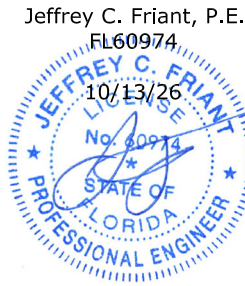
Storm Smart Building Systems, LLC

Flood Smart - Permanent Track Installation Details

Jeffrey
C. Friant

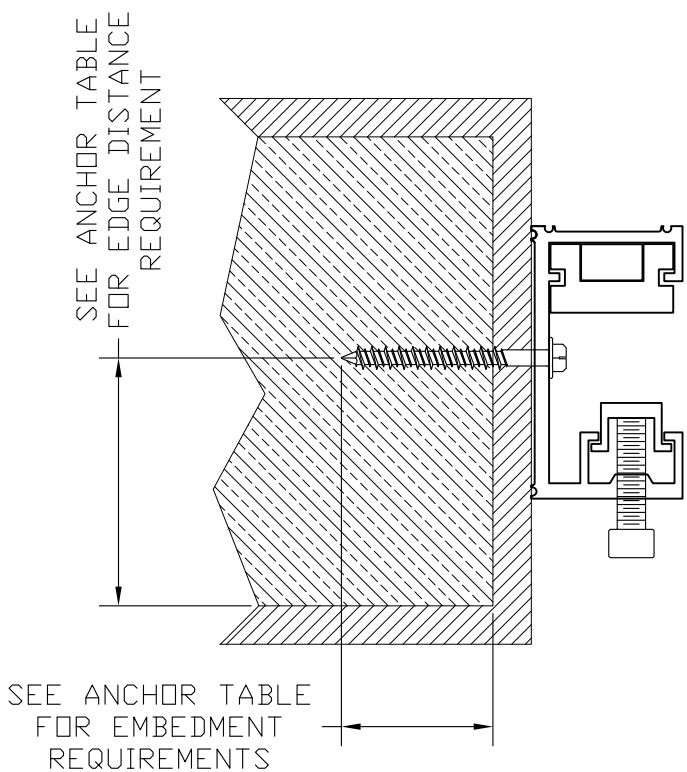
Digitally signed
by Jeffrey C. Friant
Date: 2026.10.16
14:08:09 -04'00'

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Jeffrey C. Friant, P.E. on the date adjacent to the seal.
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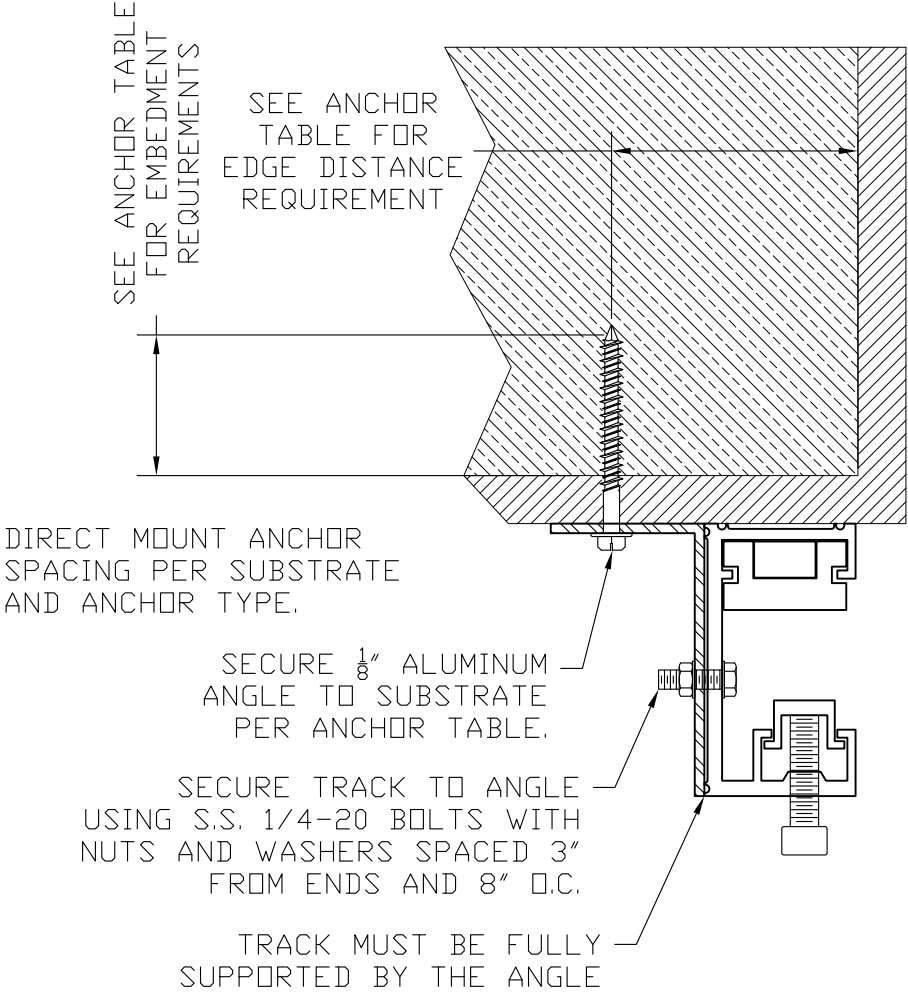


- NOTES:
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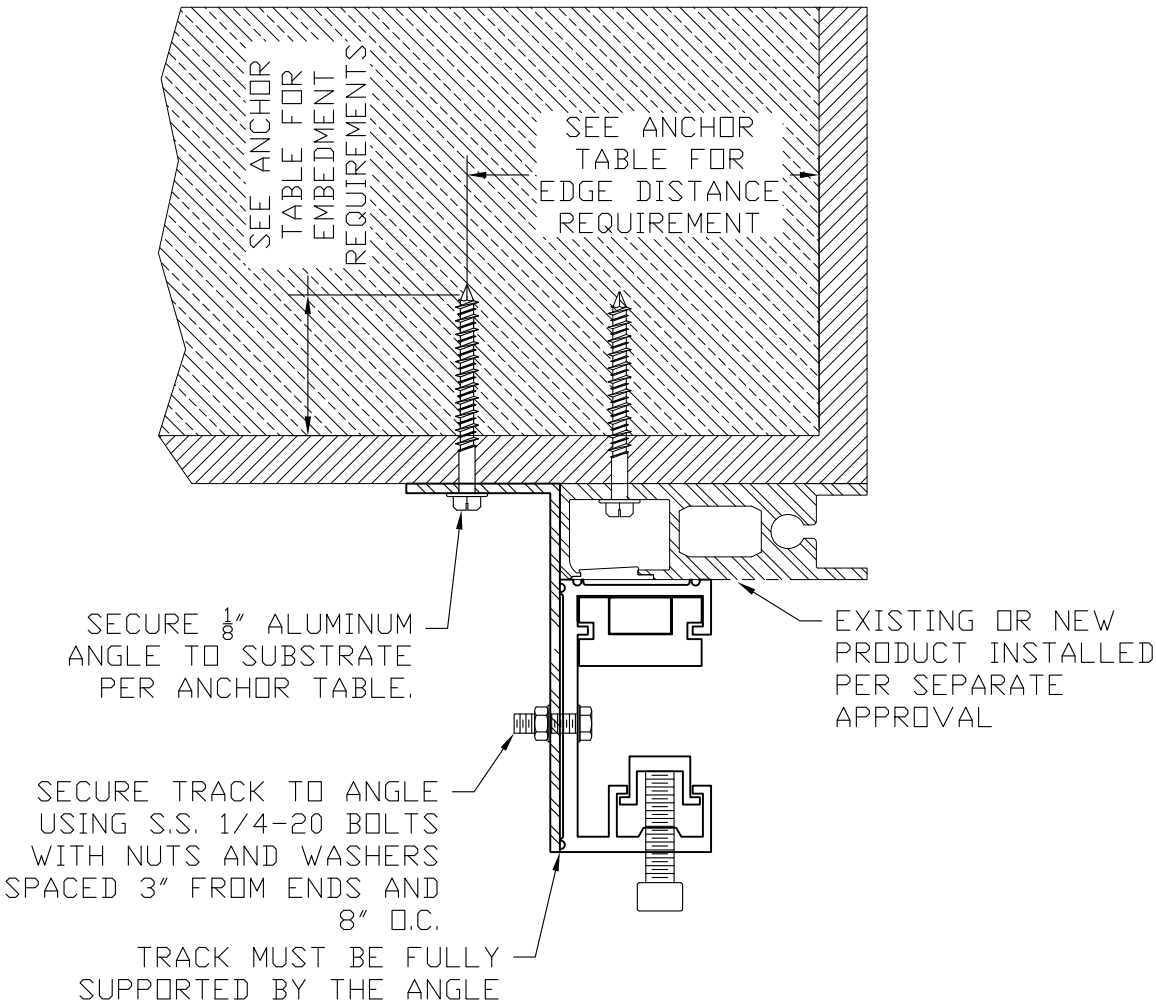
BUCK MOUNT - DIRECT



FACE MOUNT - DIRECT



FACE MOUNT - ROLL DOWN TRACK)



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6182 Idlewild Street
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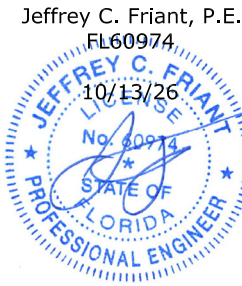
Signed	Name	Date
Drawn	JCF	10/13/26
Chk'd	SW	10/13/26

SCALE: AS NOTED
DATE: 10/13/26
JOB #: 24-3455
SHEET
12 of 17

Storm Smart Building Systems, LLC
Flood Smart - Permanent Track Installation Details

Jeffrey C. Friant
Digitally signed
by Jeffrey C. Friant
Date: 2026.10.16
14:09:26 -04'00'

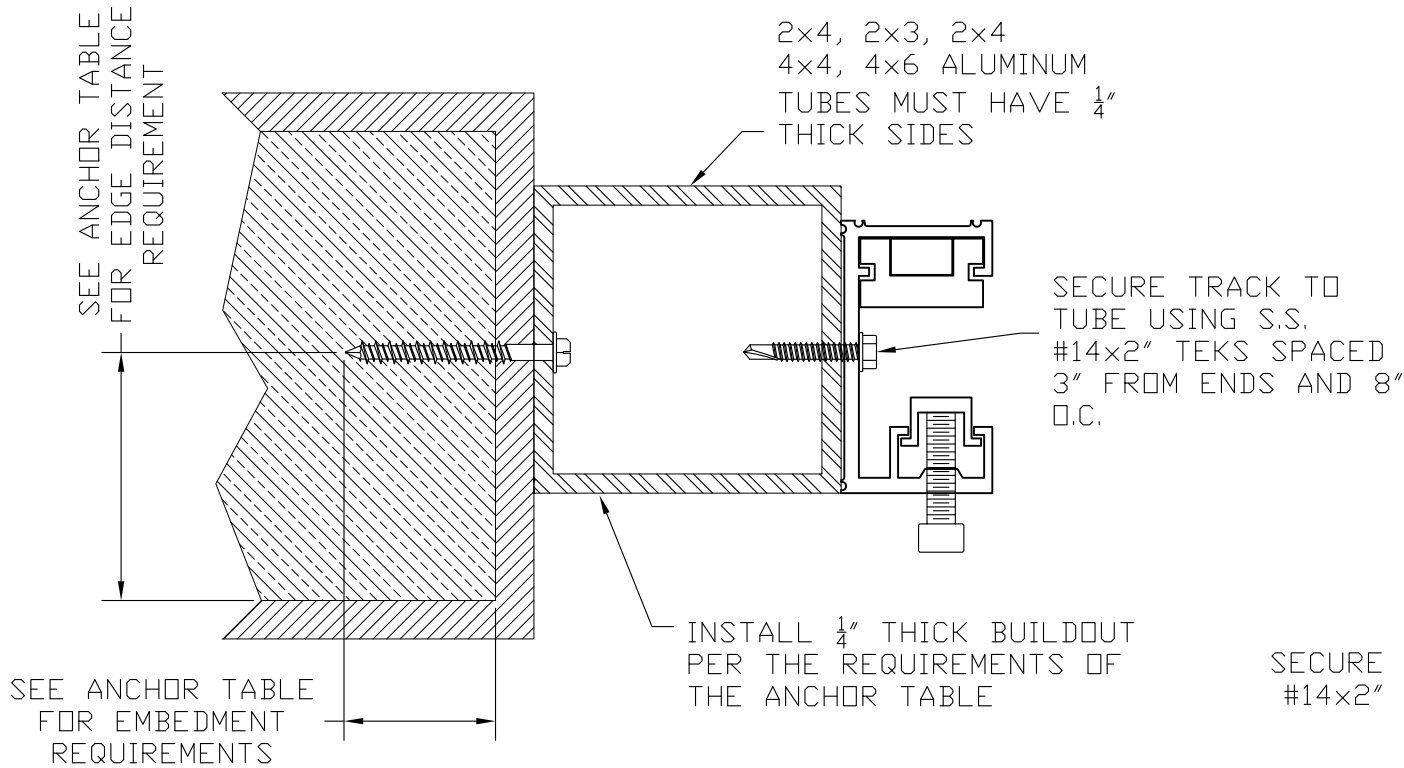
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Jeffrey C. Friant, P.E. on the date adjacent to the seal.
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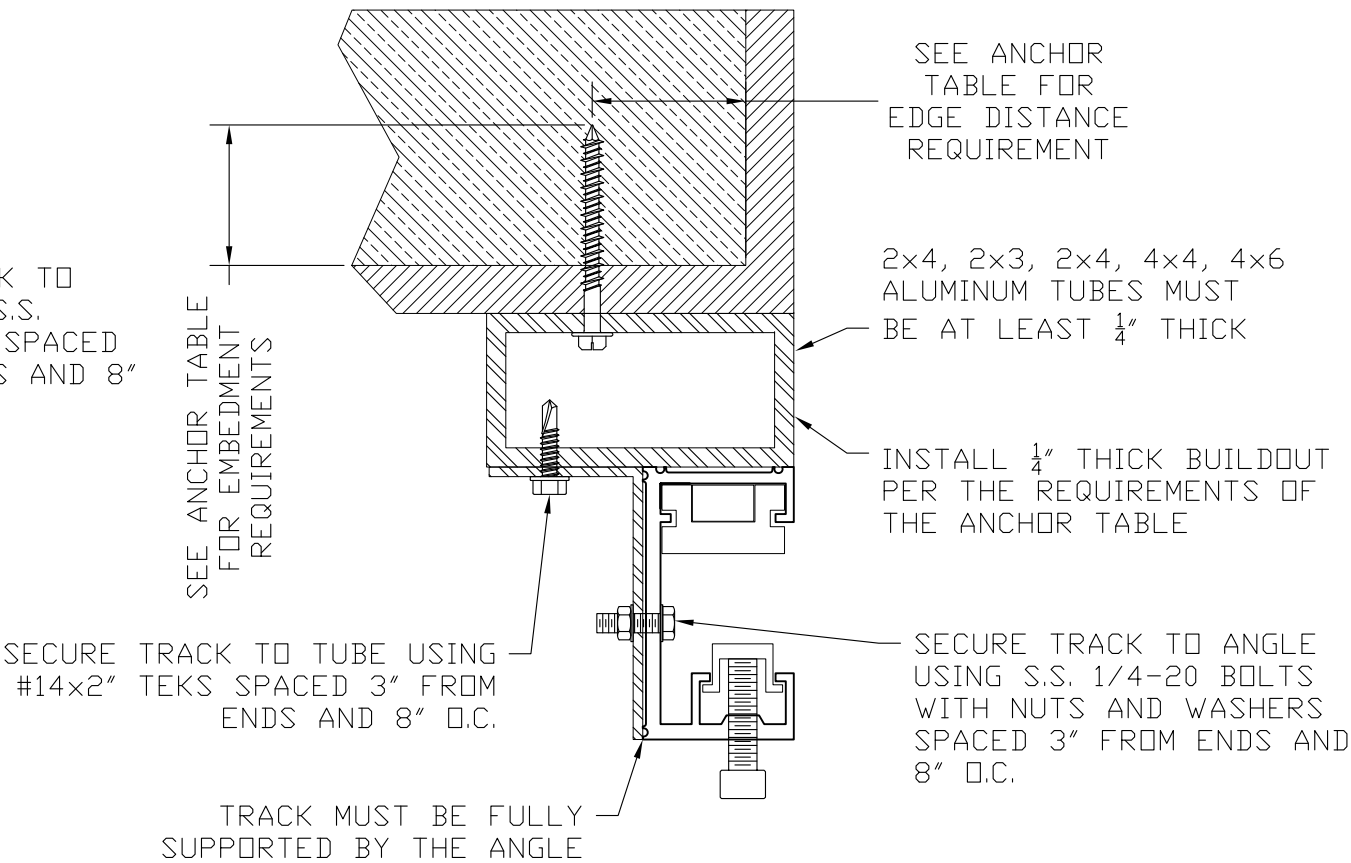
NOTES:

- 1. VERIFY SUBSTRATE THEN SELECT ANCHOR TYPE
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BUCK MOUNT - BUILD-IN



FACE MOUNT - BUILD-OUT



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(239) 938-1000

Signed	Name	Date
Drawn	JCF	10/13/26
Chk'd	SW	10/13/26

Storm Smart Building Systems, LLC

Flood Smart - Permanent Track Installation Details

Jeffrey C. Friant

Digitally signed by Jeffrey C. Friant
Date: 2026.10.16 14:13:13 -04'00'

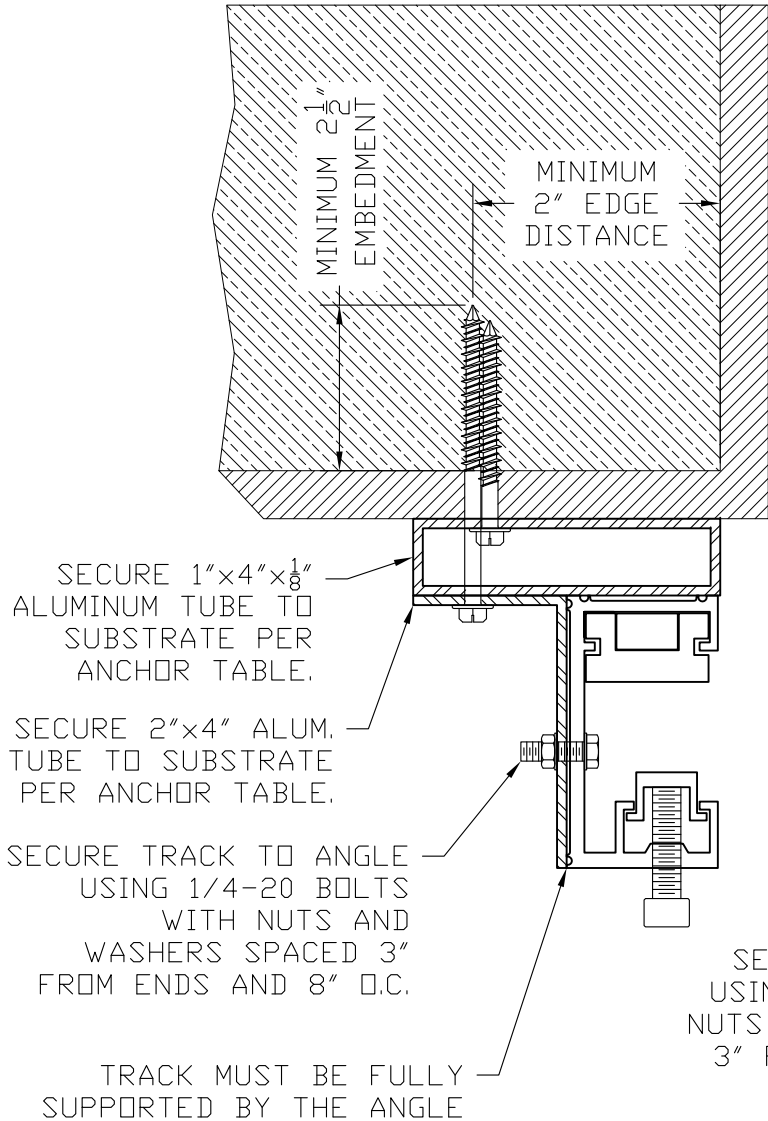
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Jeffrey C. Friant, P.E.
FL60974
10/13/26

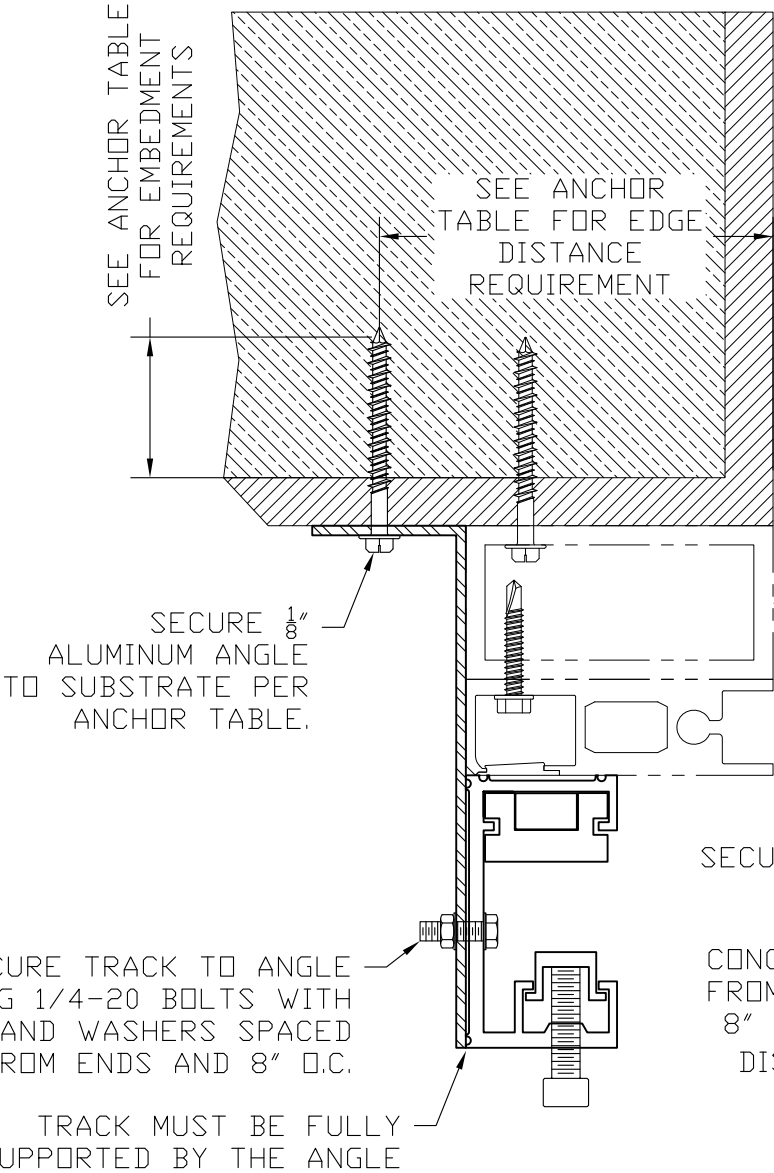
PROFESSIONAL ENGINEER
STATE OF FLORIDA

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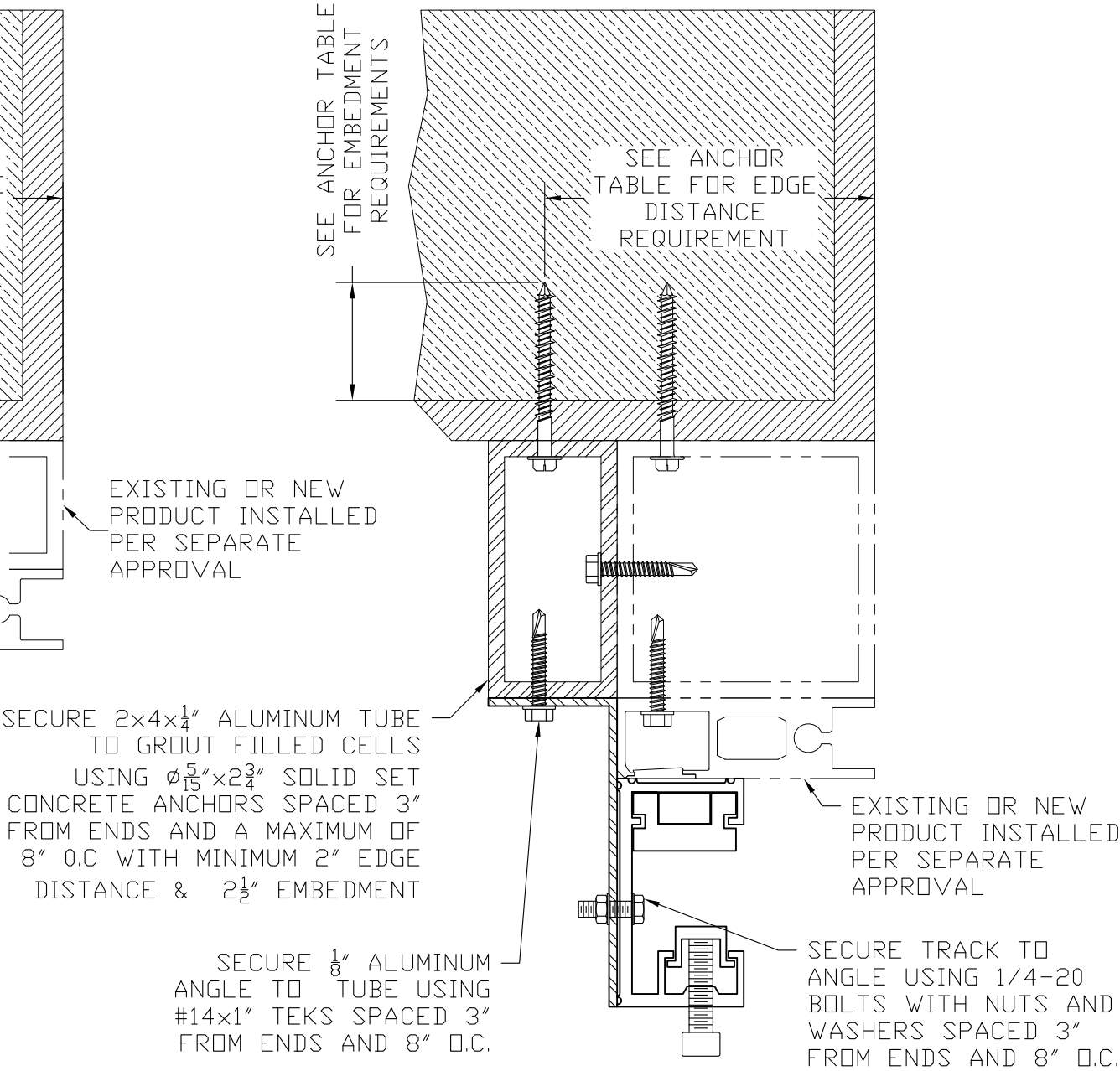
BUCK MOUNT - PERMANENT



FACE MOUNT - PERMANENT



FACE MOUNT - PERMANENT



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6182 Idlewild Street
Fort Myers, FL 33966
(239) 938-1000

Signed	Name	Date
Drawn	JCF	10/13/26
Chk'd	SW	10/13/26

SCALE: AS NOTED
DATE: 10/13/26
JOB #: 24-3455
SHEET

Digitally signed
by Jeffrey C.
Friant
Date: 2026.10.16
14:13:43 -04'00'

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Jeffrey C. Friant, P.E.
FL60974
10/13/26



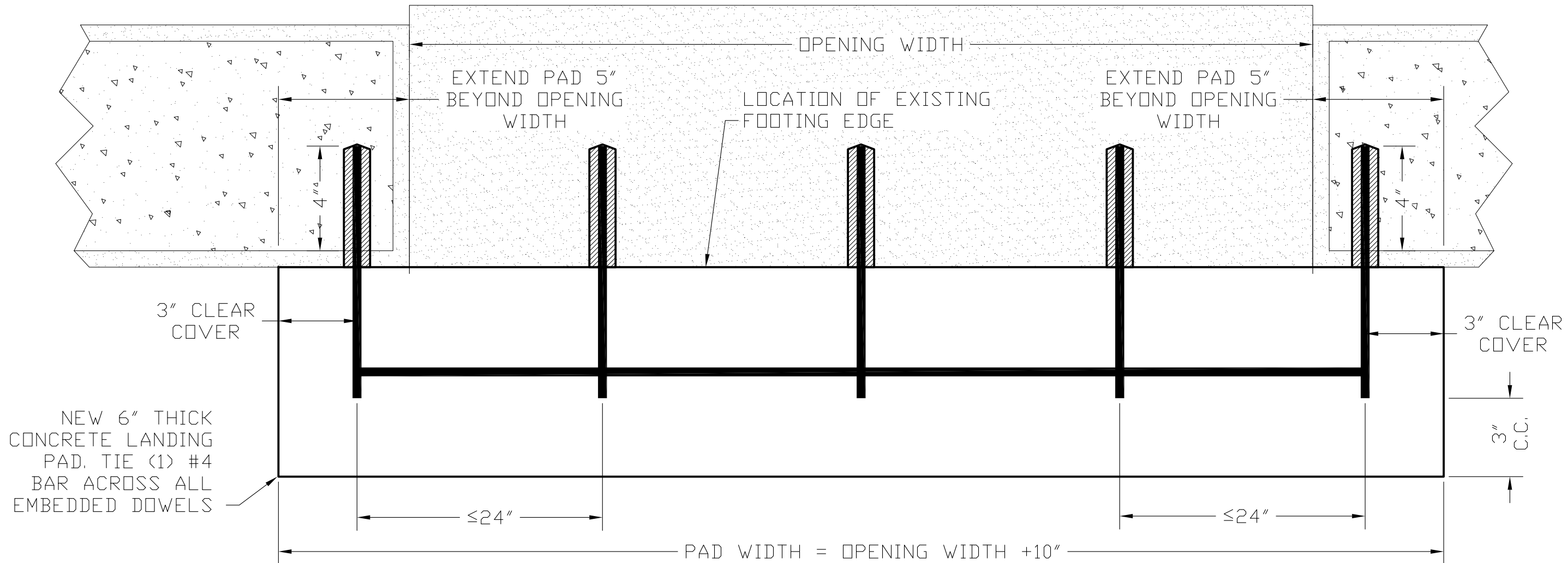
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19050 Somerset Street
Orlando, FL 32833
www.SESS-inc.com
Info@specialtyengineeringinservices.com

Title: FLOOD SMART - FLOOD PANELS	FLORIDA BUILDING CODE ANSI/FM 2510
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STORM
SMART

Signed	Name	Date
Drawn	JCF	10/13/26
Chk'd	SW	10/13/26

SCALE: AS NOTED
DATE: 10/13/26
JOB #: 24-3455
SHEET
15 of 17



THE OPENING IS 95" WIDE
ADD 10" (FOR OVERLAP)
TOTAL PAD WIDTH EQUALS 105".
DIVIDE 105" BY 24".
RESULT IS 4.375, ROUNDING UP EQUALS 5.
THIS OPENING REQUIRES 5 DOWELS.
TO DETERMINE THE DOWEL SPACING,
SUBTRACT 6" FROM THE WIDTH OF THE PAD.
IN THIS CASE $105" - 6" = 99"$
 $99"$ DIVIDED BY 5 DOWELS EQUALS $19.8"$
DOWEL SPACING EQUALS $\sim 19\frac{3}{4}"$

INSTALL THE NEW #4x10" LONG DOWELS WITH 4" MIN. EMBEDMENT INTO EXISTING
SLAB/FOOTING. SET DOWELS IN HILTI HY150 EPOXY OR EQ. POSITIONED AS SHOWN IN
DETAIL 1/13

Storm Smart Building Systems, LLC

Flood Smart - New Concrete Landing Pad Detail

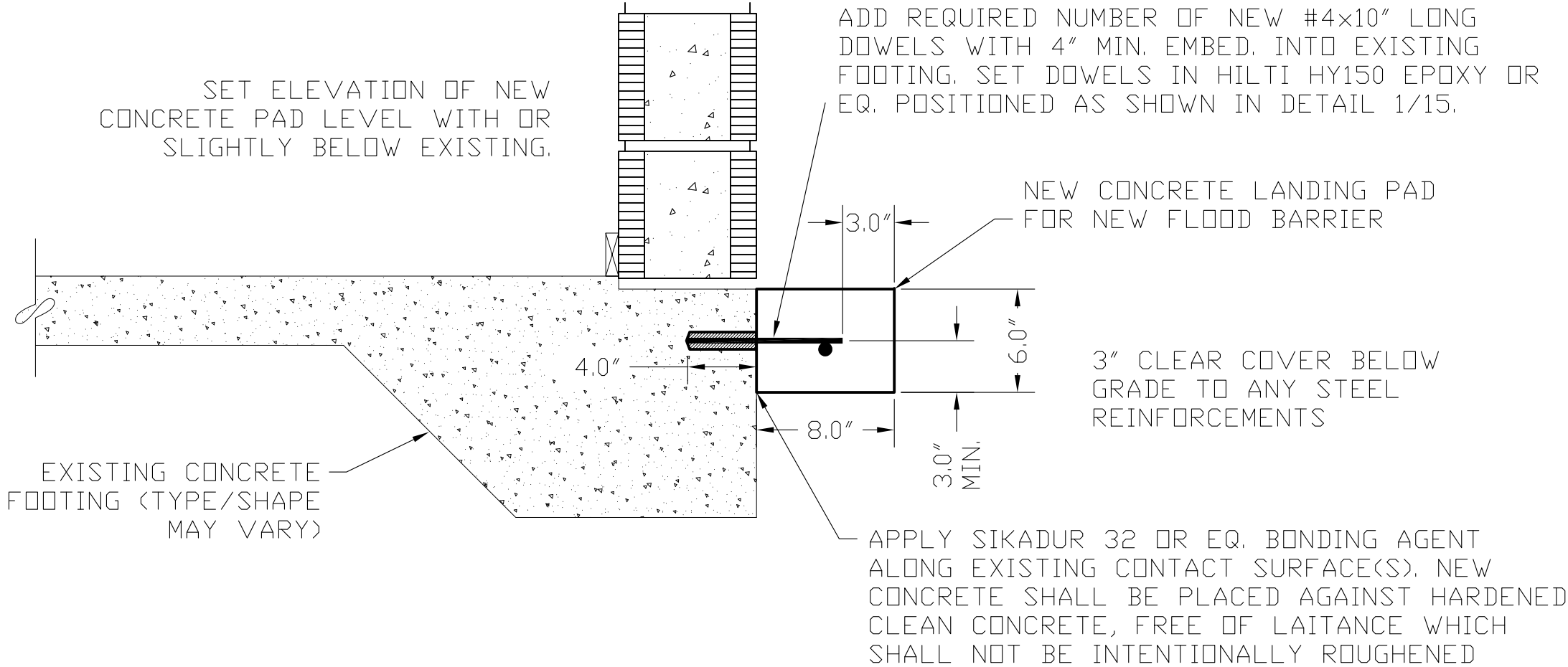
Jeffrey C. Friant

Digitally signed by Jeffrey C. Friant
Date: 2026.10.16 14:14:17 -04'00'

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Jeffrey C. Friant, P.E.
FL60974
10/13/26

JEFFREY C. FRIANT
No. 60974
STATE OF FLORIDA
PROFESSIONAL ENGINEER



- FORM NEW PAD TO BE LEVEL WITH OR SLIGHTLY BELOW EXISTING FOOTING LEVEL.
- SLOPE PAD AWAY FROM EXISTING FOOTING, MINIMUM 1/4"/12".
- USE MINIMUM 3000 PSI CONCRETE AND TROWEL SMOOTH FOR FLOOD PANEL FULL LENGTH CONTACT.

1

16

NEW CONCRETE LANDING PAD DETAIL

SCALE: 3" = 1'-0" (25%)

SIDE SECTION VIEW

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SCALE: AS NOTED

DATE: 10/13/26

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SHEET

16 of 17

Storm Smart Building Systems, LLC
Flood Smart - Center Post Brace Isolated Pad Mount Detail

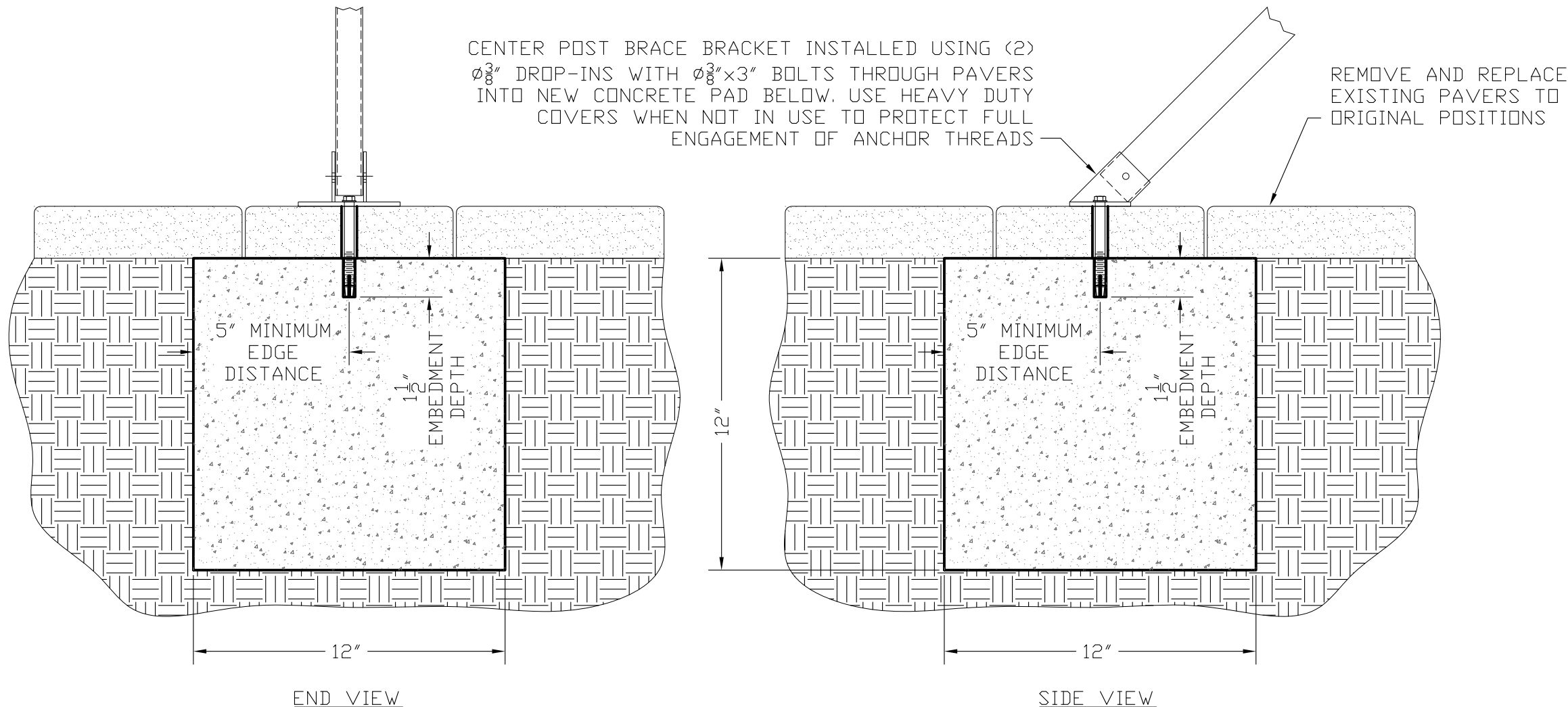
Jeffrey C. Friant

Digitally signed
by Jeffrey C.
Friant
Date: 2026.10.16
14:15:06 -04'00'

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Jeffrey C. Friant, P.E.
FL60974
10/13/26

JEFFREY C. FRIANT
P.E.
STATE OF
FLORIDA
PROFESSIONAL ENGINEER



BOTTOM OF THE 12-INCH-DEEP ISOLATED FOOTING SHALL BEAR ON UNDISTURBED NATURAL SOIL OR ON COMPACTED FILL.
REMOVE VEGETATION, TOPSOIL, ORGANIC MATERIAL, FROZEN SOIL, AND OTHER UNSUITABLE MATERIAL BEFORE PLACING FILL OR CONCRETE.
WHERE THE FOOTING BEARS ON COMPACTED FILL 12 INCHES OR LESS IN DEPTH, THE FILL NEED NOT BE COVERED BY A GEOTECHNICAL REPORT PROVIDED THE IN-PLACE DRY DENSITY IS NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D1557 (MODIFIED PROCTOR).
PLACE FILL IN LIFTS NOT EXCEEDING 12 INCHES LOOSE THICKNESS. VERIFY COMPACTION BY SPECIAL INSPECTION IN ACCORDANCE WITH IBC SECTION 1705.6.
COMPACTED FILL DEEPER THAN 12 INCHES SHALL COMPLY WITH AN APPROVED GEOTECHNICAL REPORT PER IBC SECTIONS 1803 AND 1804.6. DO NOT PLACE CONCRETE ON SOFT, LOOSE, MUDDY, OR FROZEN SOIL. UNDERCUT AND REPLACE ANY UNSUITABLE MATERIAL WITH COMPACTED STRUCTURAL FILL MEETING THE DENSITY ABOVE

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Chk'd	SW	10/13/26

SCALE: AS NOTED
DATE: 10/13/26
JOB #: 24-3455
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17 of 17

24-3455 - Flood Smart Flood Panels - FL60974 - Installation Instructions