



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI PREAPPROVAL OF  
MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY

APPLICATION #: OPM-0680

HCAI Preapproval of Manufacturer's Certification (OPM)

Type:  New  Renewal/Update

Manufacturer Information

Manufacturer: VMC Group

Manufacturer's Technical Representative: John Giuliano

Mailing Address: 113 Main Street, Bloomingdale, NJ 07403

Telephone: (973) 838-1780

Email: john.giuliano@thevmcgroup.com

Product Information

Product Name: VMA Spring Isolated and Non-Isolated Curbs

Product Type: Equipment Curbs

Product Model Number: See Attachments

General Description: Seismic Rated Spring Isolated and Non-Isolated Equipment Curbs

Applicant Information

Applicant Company Name: VMC Group

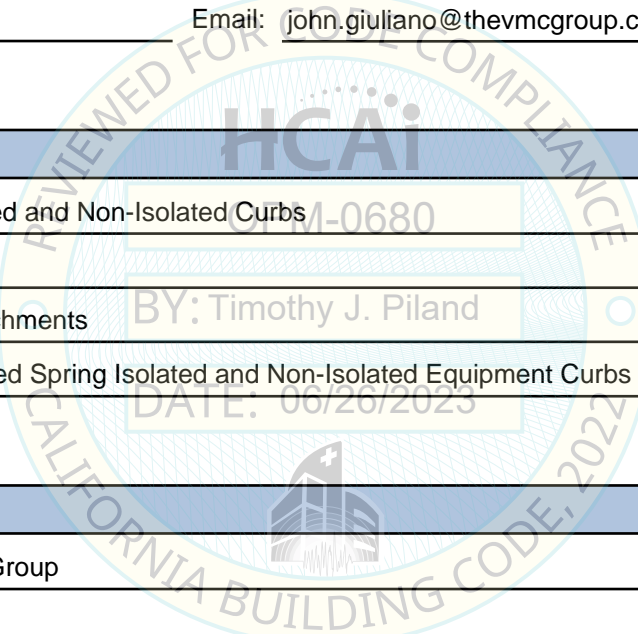
Contact Person: John Giuliano

Mailing Address: 113 Main Street, Bloomingdale, NJ 07403

Telephone: (973) 838-1780

Email: john.giuliano@thevmcgroup.com

Title: President



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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION**

**Registered Design Professional Preparing Engineering Recommendations**

Company Name: THE VMC GROUP  
Name: Nathaniel Deibler California License Number: C86676  
Mailing Address: 113 Main Street, Bloomingdale, NJ 07403  
Telephone: (973) 838-1780 Email: nate.deibler@thevmcgroup.com

**HCAI Special Seismic Certification Preapproval (OSP)**

Special Seismic Certification is preapproved under OSP OSP Number: OSP-0535, OSP-0725

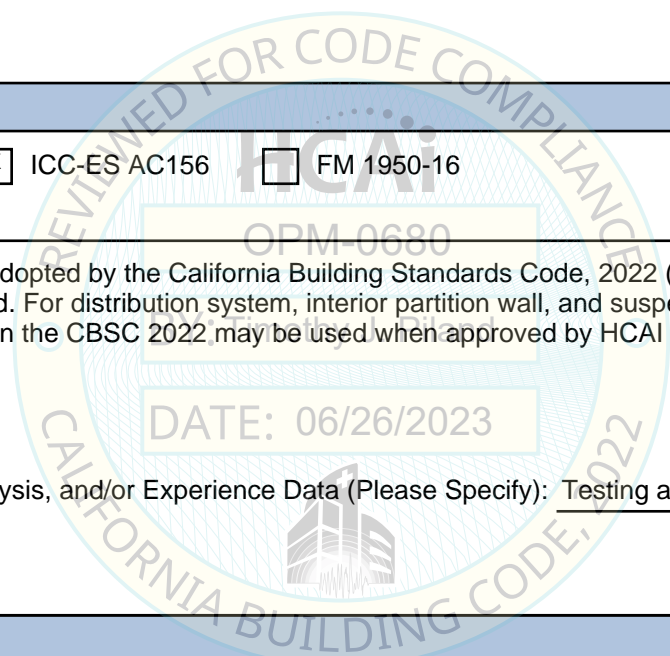
**Certification Method**

Testing in accordance with:  ICC-ES AC156  FM 1950-16

Other(s) (Please Specify): \_\_\_\_\_

\*Use of criteria other than those adopted by the California Building Standards Code, 2022 (CBSC 2022) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2022 may be used when approved by HCAI prior to testing.

- Analysis
- Experience Data
- Combination of Testing, Analysis, and/or Experience Data (Please Specify): Testing and Analysis



**HCAI Approval**

Date: 6/26/2023  
Name: Timothy Piland Title: Senior Structural Engineer  
Condition of Approval (if applicable): \_\_\_\_\_

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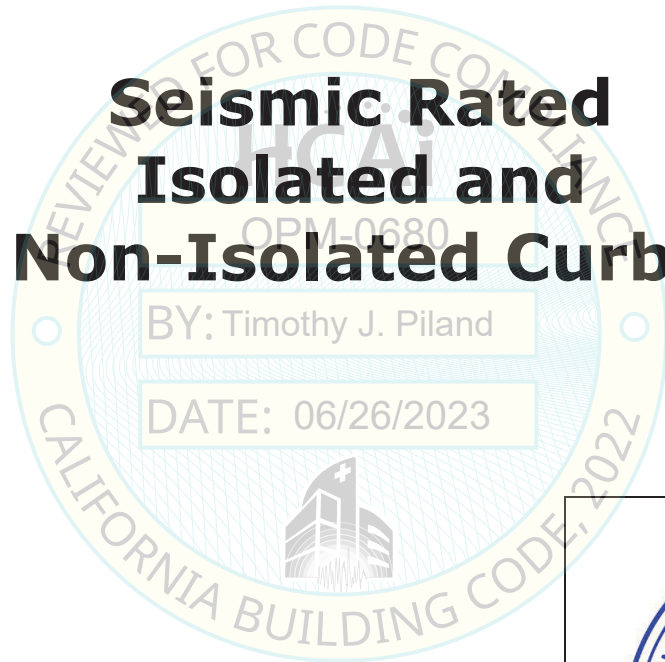
# **THE VMC GROUP**

## **OPM-0680-022**

### **Seismic Rated Isolated and Non-Isolated Curbs**

BY: Timothy J. Piland

DATE: 06/26/2023



Nathaniel Deibler, PE  
2023.06.26 09:42:48-0700'

**OPM-0680-22**

Mr. John P Giuliano



**The VMC Group**  
**Seismic Rated Isolated and**  
**Non-Isolated Curbs**

Page: **1**

**1. General Notes and Seismic Capacity Determination**

- a. HCAI Pre-Approval of Manufacturer's Certification (OPM) is based on the 2022 California Building Code (CBC).
- b. The  $S_{DS}$  level from an HCAI approved component shake table test is the basis for determining the seismic demands and limiting curb capacities.
- c. Per ASCE 7-16 (ASCE7) Chp 13 equations, lateral and vertical seismic demands are applied at curb vertical supports and are calculated as follows:
  - i. Horizontal Force,  $F_p$  (§13.3.3.1 Equation 13.3-1)

$$F_p = \frac{0.4a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)} \left(1 + 2\frac{z}{h}\right)$$

Where per ASCE7 Table 13.6-1 for isolated applications\*:

Amplification factor ( $a_p$ ) = 2.5

Component Response Modification factor ( $R_p$ ) = 2.0

Component importance factor ( $I_p$ ) = 1.5

Component operating weight ( $W_p$ ) = Dead load plus operating contents

\*non-isolated components vary according to ASCE7 Tables 13.5-1 and 13.6-1

- ii. Vertical Force,  $F_v$  (§13.3.1.2)
 
$$F_v = \pm 0.2 S_{DS} D$$
- iii. Overstrength factor ( $\Omega_0$ ) is not pertinent to supports (only concrete attachments) and was not included in the demand calculations.
- iv. Utilizing ASCE7 §2.3.6 Basic Combinations with Seismic Load Effects:
  - LRFD Load Combination 6.  $1.2D + E_v + E_h$
  - LRFD Load Combination 7.  $0.9D - E_v + E_h$
 Where:
  - D = Dead Load
  - $E_v = F_v$
  - $E_h = F_p$
- v. Component seismic demands applied at the center of gravity (CG), relative to the center of rigidity (CR), using the basic principles of structural mechanics,  $P/A \pm Mc/I$  in all orthogonal directions are resisted by the curb vertical supports (see 2a.ii) to determine the curb vertical and lateral demands.
 

Where (if applicable):

$$I = I_0 + Ad^2 \text{ (Parallel Axis Theorem for rotation about edge of component)}$$

- d. Curb capacities are limited to the maximum calculated demands from 1c.
- e. It is the responsibility of the Registered Design Professional (RDP) in responsible charge to submit to the Structural Engineer of Record (SEOR) the following:
  - i. Project specific curb demands  $\leq$  OPM listed capacities.
  - ii. Component attachment to the curb and curb attachment to the structure are in compliance with CBC and corresponding anchor attachments ICC-ES Reports.
  - iii. Component assembly installation, e.g., component, curb, and attachments are in compliance with CBC and details within the OPM.
- f. Environmental factors, e.g., wind, snow, rain/floods, etc., are beyond the scope of the OPM.



OPM-0680-22

Mr. John P Giuliano



**The VMC Group**  
**Seismic Rated Isolated and**  
**Non-Isolated Curbs**

Page **2**

**2. General Curb Design Procedure**

- a. The curb selection process is as follows:
  - i. Based on the component's weight (lbs) and perimeter length (ft), select a curb that meets the Vertical Static Perimeter Capacity (lbs/ft) from Table in Note 4.
  - ii. Lateral and vertical seismic demands are resisted per curb vertical supports: Curb Vertical Supports are as follows:
    - 1. Isolators for isolated curbs
    - 2. Vertical stanchion supports, for housing isolators for non-isolated curbs.
  - iii. Calculate the seismic demands for each isolator/vertical stanchion support within curb per 1c.
  - iv. Select an isolated or non-isolated curb whose tested seismic capacities per vertical support  $\geq$  the maximum calculated lateral and vertical seismic demands using the interaction force equation:  
 $(T_u/T_s)^2 + (V_u/V_s)^2 \leq 1.0$

Where:

- $T_u$  = Maximum Tension Demand
- $T_s$  = Tested Tension Capacity
- $V_u$  = Maximum Shear Demand
- $V_s$  = Tested Shear Capacity

- b. The total lateral and vertical curb capacity is the summation of the total number of vertical supports, with each individual vertical support capacity  $\geq$  demand.

**3. Anchorage and Attachment Requirements**

- a. It is the responsibility of the Registered Design Professional (RDP) in responsible charge to submit to the Structural Engineer of Record (SEOR) the following:
  - i. Equipment attachment to the curb.
  - ii. Anchorage of the curb to building structure.

**4. Tested Curb, Bracing Requirements, and Lateral and Vertical Capacities**

**Curb Properties, Cross Bracing Spacing\*, and Seismic and Vertical Static Perimeter Capacities (lbs, inches, lbs/ft)**

Model No.	Height	Vertical Support Spacing		Max Cross Brace Spacing Longitudinal	Vertical Static Perimeter Capacity	LRFD Seismic Capacity per Vertical Support		
		Long	Trans			Shear	Tension	Comp
P6000 Curb	14	33	0	41 Upper, 54 Lower	55 lbs/ft	950 lbs	1090 lbs	1535 lbs
P6000S Curb	14	42	0	42 Upper, 84 Lower	260 lbs/ft	4775 lbs	6515 lbs	8925 lbs
P6000S Ext Ht	36	30	30	In-Plane Corner Diagonals EWEF	235 lbs/ft	2185 lbs	3285 lbs	4340 lbs
P6200 Curb	20	38	42	47 Upper	115 lbs/ft	2220 lbs	2735 lbs	3650 lbs
P6300 Curb	22	43	67	43 Upper, 86 Lower	280 lbs/ft	4310 lbs	3850 lbs	6720 lbs

\*Condenser Rail X-Bracing required with Condenser Rails - See VMA-49202-02 Rev B Dwg



**OPM-0680-22**

Mr. John P Giuliano

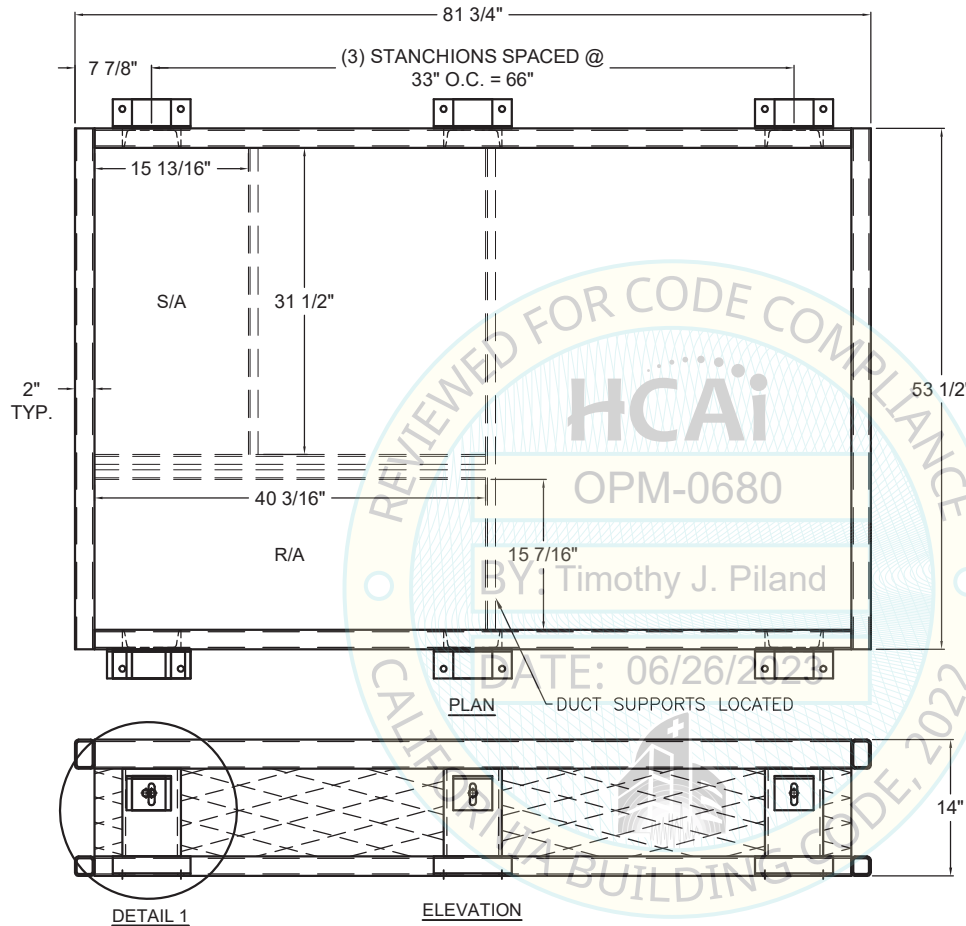


**The VMC Group  
Seismic Rated Isolated and  
Non-Isolated Curbs**



REV.	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	09/01/17	RJG

CURB DATA  
TOTAL CURB WEIGHT: 200 LBS.  
QUANTITY: 1 SHIPPED IN 1 SECTION(S)  
LOWER RAIL O.A. DIMENSIONS: 81 3/4" X 53 1/2"  
CURB HT: 14" CURB LINEAL FOOTAGE: 22 1/2'



OPTIONS

- YES NO
- SEISMIC/WIND CONSIDERATION
  - SOUND BARRIER PKG.
  - CONDENSING UNIT RAIL PER DWG. \_\_\_\_\_
  - DUCT SUPPORT PKG.

OTHER MATERIALS, COMPOUNDS, OR FINISHES WITH EQUAL OR SUPERIOR PROPERTIES MAY BE SUBSTITUTED AS THEY BECOME AVAILABLE.

**Nathaniel Deible, PE**  
2023.06.26 09:43:03-07'00'  
C 88678  
Exp. 3/25  
CIVIL  
STATE OF CALIFORNIA

**P-6000 NON-ISOLATED  
SEISMIC/WIND RESTRAINT  
ROOF CURB**



**THE VMC GROUP**  
*The Power of Together*  
Bloomington, NJ 07403  
Houston, TX 77041

SCALE:

NONE

SHEET:

1 OF 1



DRAWING NO.:

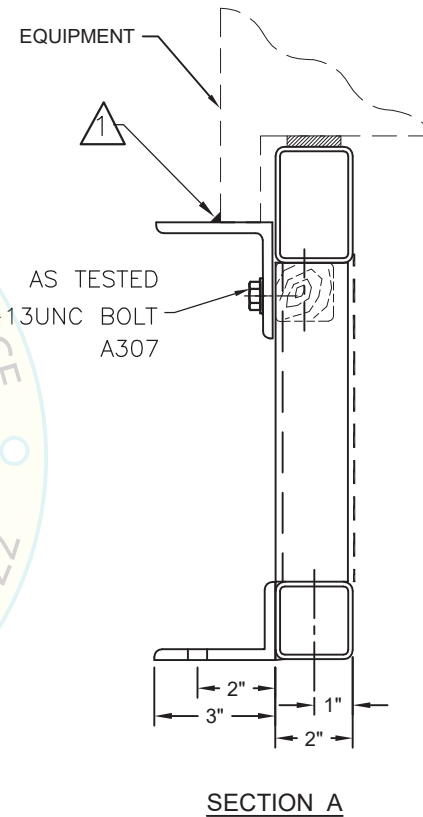
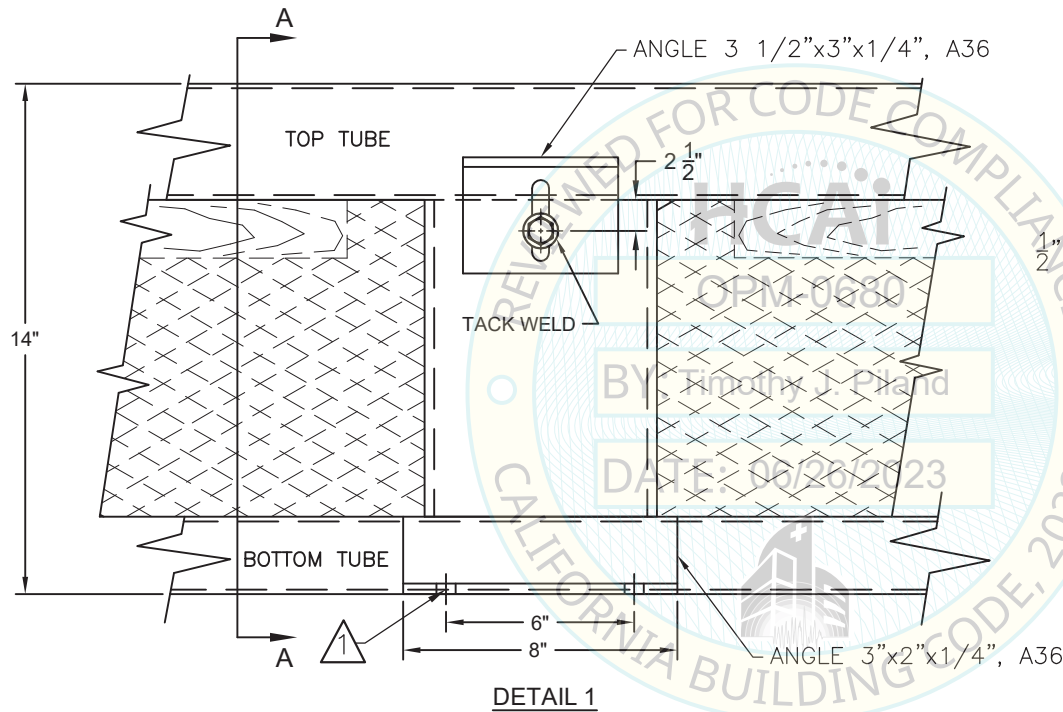
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A	INITIAL RELEASE	09/01/17	RJG



1 RDP RESPONSIBLE FOR AHU TO ANGLE WELDMENT AND CURB TO STRUCTURE ATTACHMENT

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**NATHANIEL DEIDER, PE**  
 LICENSED PROFESSIONAL ENGINEER  
 LICENSE NO. 23066  
 2023.06.26  
 09:43:09-07'00"  
 CIVIL  
 STATE OF CALIFORNIA

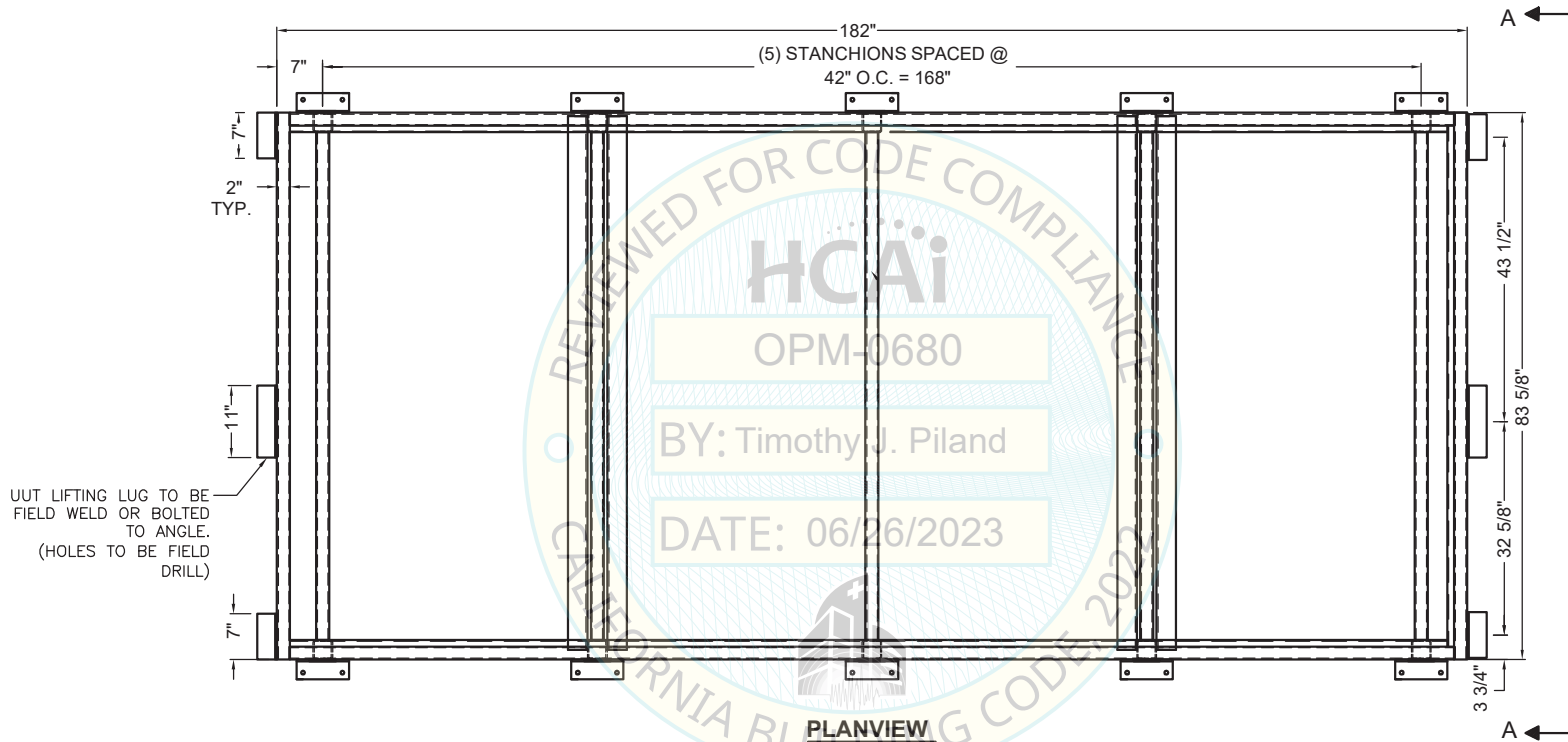
**P-6000 NON-ISOLATED  
 SEISMIC/WIND RESTRAINT  
 ROOF CURB  
 DETAILS AND SECTIONS**



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SHEET: 1 OF 1	
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A	INITIAL RELEASE	3/31/20	KP



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 Nathaniel Deibler, PE  
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 Exp. 3/25  
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 STATE OF CALIFORNIA

P-6000S NON-ISOLATED  
SEISMIC/WIND RESTRAINT  
ROOF CURB



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SCALE:

NONE

SHEET:

1 OF 3



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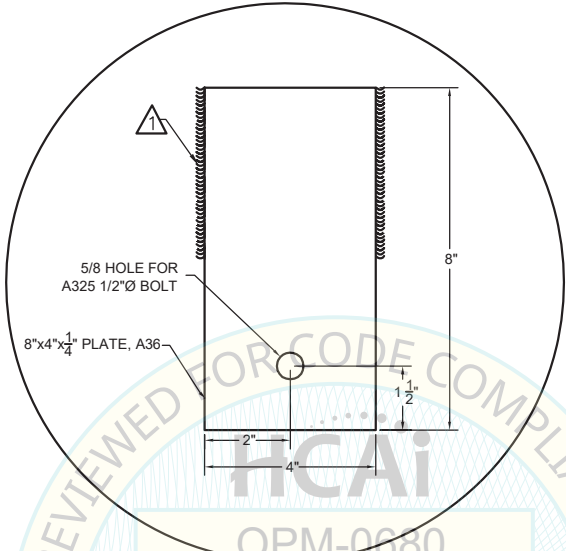
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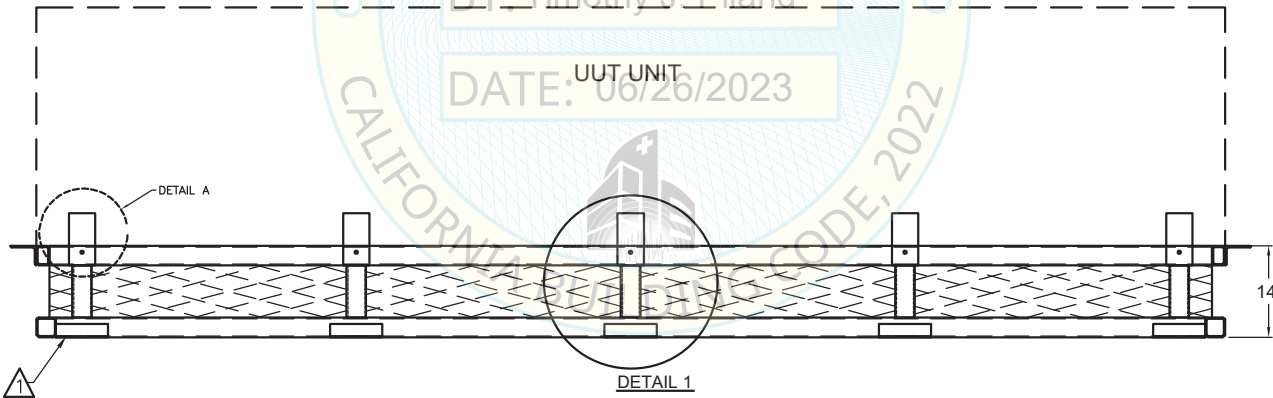
REV.	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	3/31/20	KP



**DETAIL-A**  
**(10 REQ'D)**

BY: Timothy J. Piland

DATE: 06/26/2023



**ELEVATION VIEW**

1 RDP RESPONSIBLE FOR AHU TO CURB WELDMENT AND CURB TO STRUCTURE ATTACHMENT

OTHER MATERIALS, COMPOUNDS, OR FINISHES WITH EQUAL OR SUPERIOR PROPERTIES MAY BE SUBSTITUTED AS THEY BECOME AVAILABLE.



**P-6000S NON-ISOLATED  
SEISMIC/WIND RESTRAINT  
ROOF CURB**



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Houston, TX 77041

SCALE:  
NONE

SHEET:  
2 OF 3

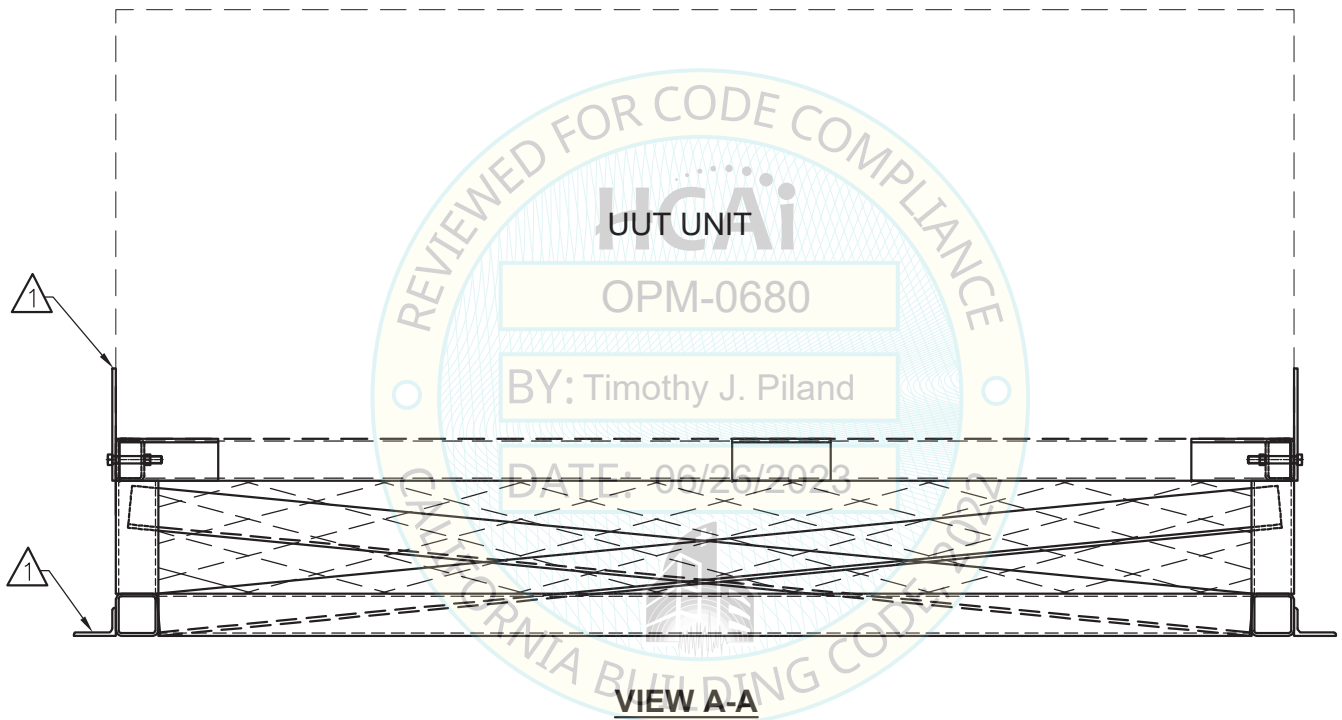
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A	INITIAL RELEASE	3/31/20	KP



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**Nathaniel Deiber, PE**  
 LICENSED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA  
 2023.06.26  
 09:43:26-07'00"

**P-6000S NON-ISOLATED SEISMIC/WIND RESTRAINT ROOF CURB**



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 Houston, TX 77041

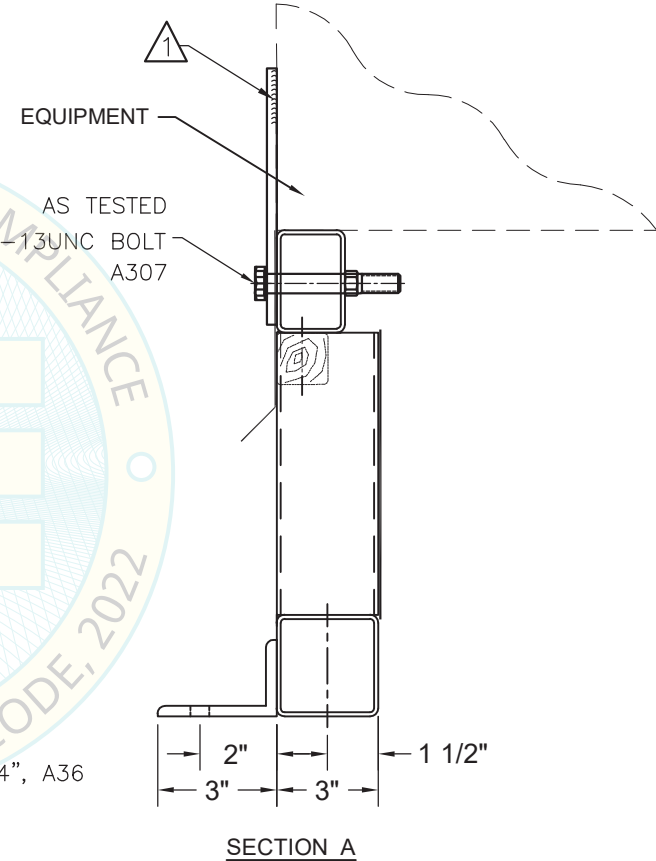
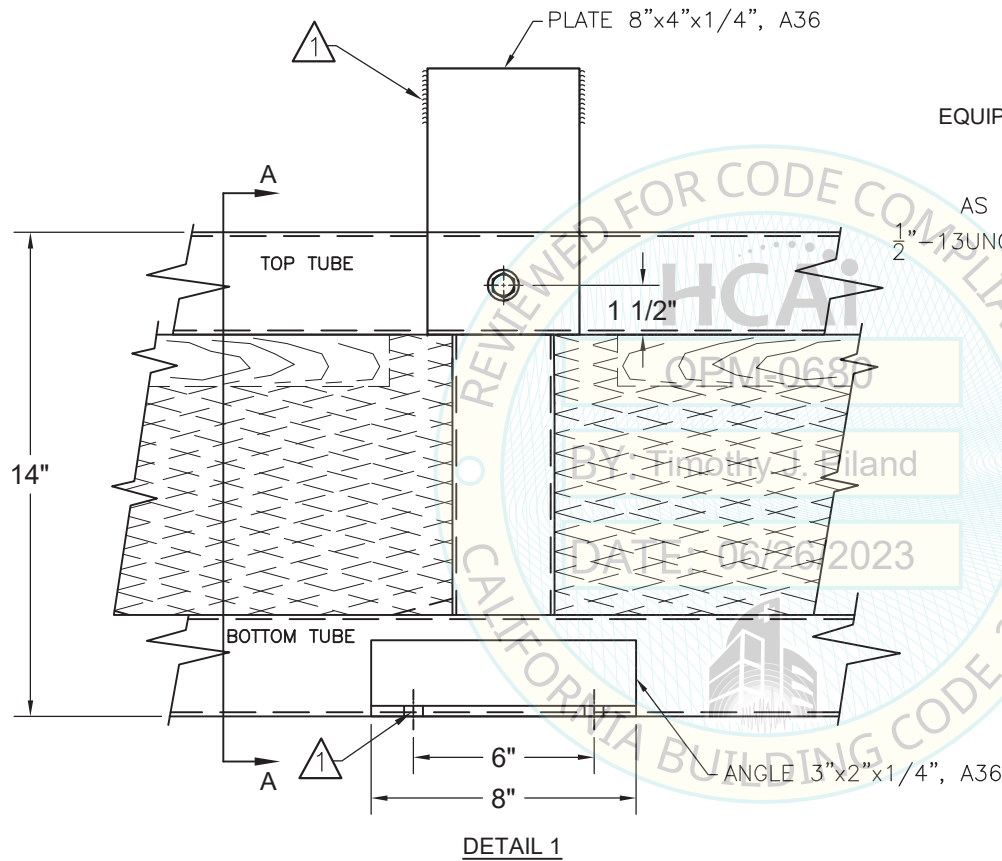
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A	INITIAL RELEASE	3/31/20	KP



1 RDP RESPONSIBLE FOR AHU TO CURB WELDMENT AND CURB TO STRUCTURE ATTACHMENT

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P-6000S NON-ISOLATED SEISMIC/WIND RESTRAINT ROOF CURB DETAILS AND SECTIONS



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Houston, TX 77041

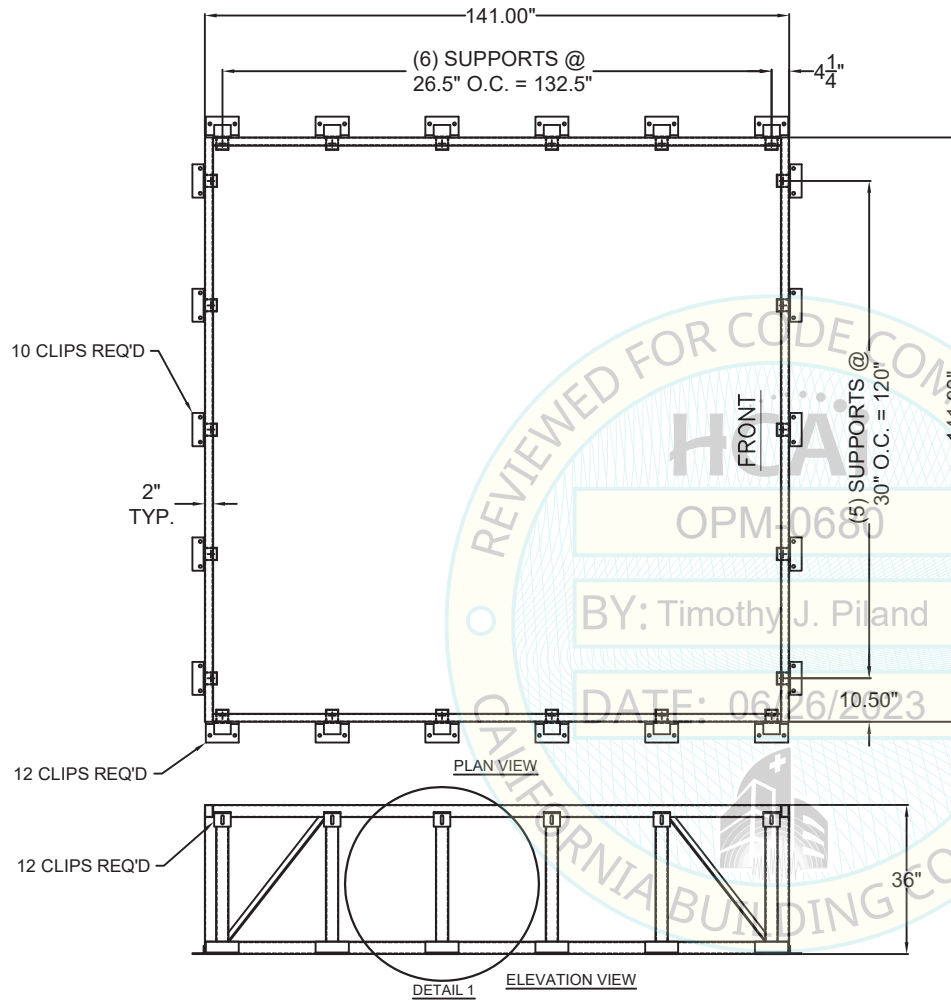
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SHEET: 1 OF 1



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REV.	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	10/13/11	MC
B	REVISED LOWER ATTACHMENT ANGLE	10/17/11	MC



CURB DATA  
TOTAL CURB WEIGHT: 560#  
QUANTITY: 1 SHIPPED IN 2 SECTION(S)  
LOWER RAIL O.A. DIMENSIONS: 141" x 141"  
CURB HT: 36" COND. RAIL HT: -  
CURB LINEAL FOOTAGE: 46.5'

OPTIONS

- | YES                                 | NO                                  |                                     |
|-------------------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | SEISMIC/WIND CONSIDERATION          |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | SOUND BARRIER PKG.                  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | CONDENSING UNIT RAIL PER DWG. _____ |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | DUCT SUPPORT PKG.                   |

**Nathaniel Deider, PE**  
2023.06.26  
09:43:38-07'00"  
CIVIL  
STATE OF CALIFORNIA

**P-6000S EXT. HT. NON-ISOLATED  
SEISMIC/WIND RESTRAINT  
ROOF CURB**



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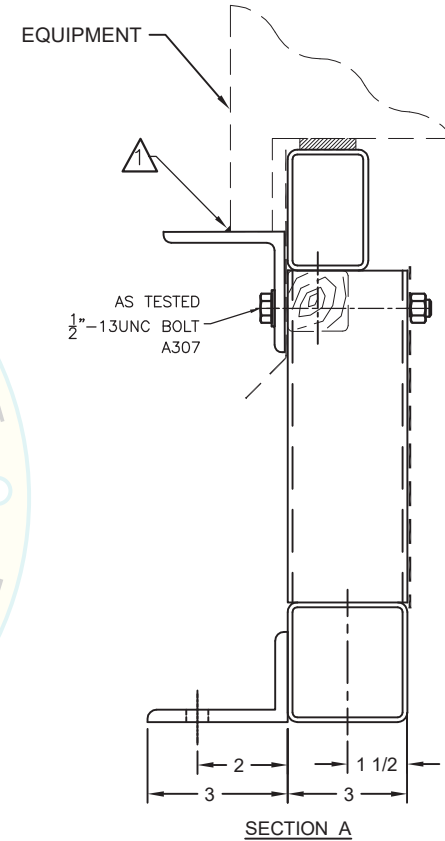
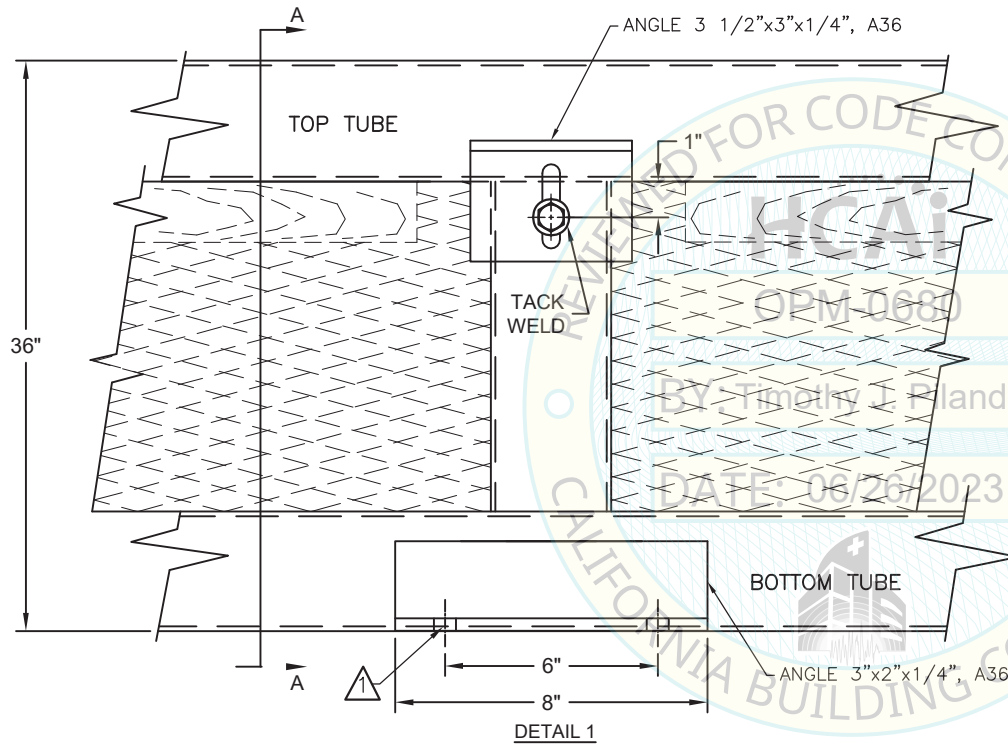
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SHEET: **2 OF 5**



DRAWING NO.: **VMA-46483** REVISION: **B**

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A	INITIAL RELEASE	10/13/11	MC



1 RDP RESPONSIBLE FOR AHU TO ANGLE WELDMENT AND CURB TO STRUCTURE ATTACHMENT

OTHER MATERIALS, COMPOUNDS, OR FINISHES WITH EQUAL OR SUPERIOR PROPERTIES MAY BE SUBSTITUTED AS THEY BECOME AVAILABLE.

**Nathaniel Deider, PE**  
 LICENSED PROFESSIONAL ENGINEER  
 DANIEL M. DEIDER  
 2023.06.26  
 09:43:43-07'00"  
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 STATE OF CALIFORNIA

**P-6000S EXT. HT. NON-ISOLATED  
 SEISMIC/WIND RESTRAINT  
 ROOF CURB  
 DETAILS AND SECTIONS**



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 Houston, TX 77041

SCALE:  
 NONE

SHEET:  
 1 OF 1

DRAWING NO.:  
**VMA-46483B**

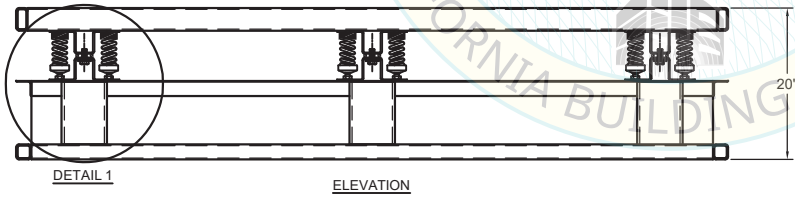
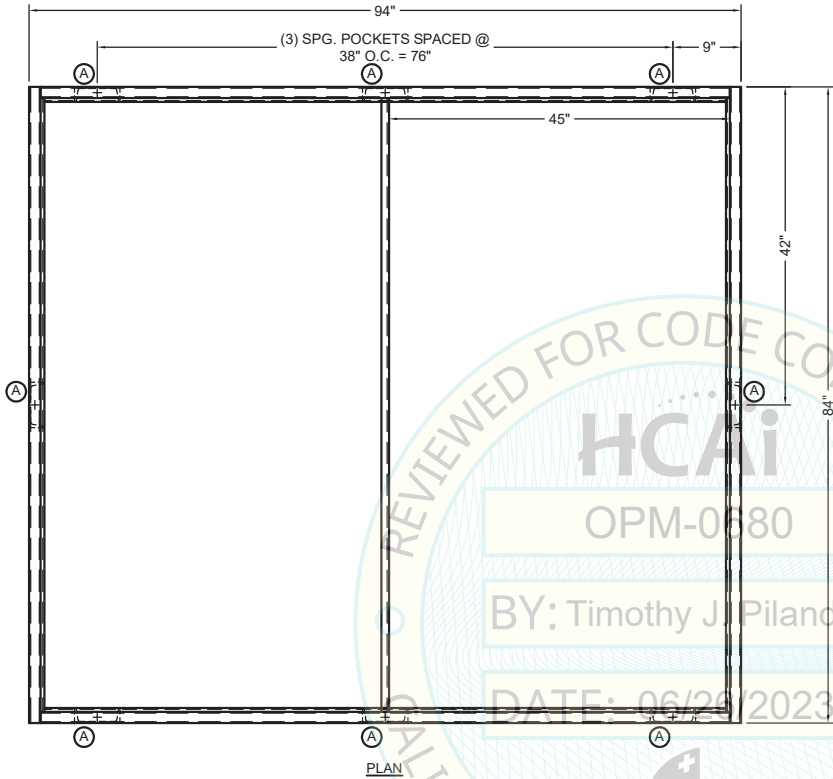
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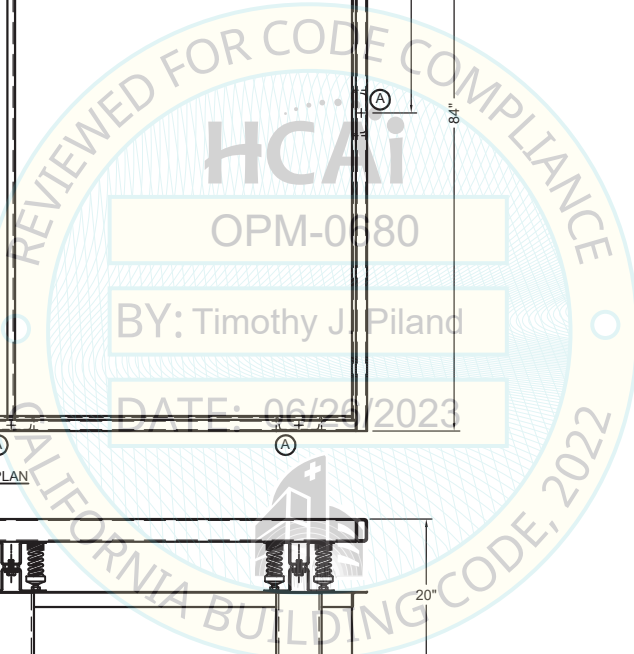


REV.	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	03/23/10	RJG



**CURB DATA**  
TOTAL CURB WEIGHT: 415 LBS.  
QUANTITY: 1  
SHIPPED IN 1 SECTION(S)  
LOWER RAIL O.A. DIMENSIONS: 94" x 84"  
CURB HEIGHT: 20"  
CURB LINEAL FOOTAGE: 29 3/4'

SPRING POCKET LOCATION	SPRING IDENT. NO.	MAX. STATIC SPRING LOAD PER POCKET	MAX. DEFL. (IN.)
A	T2Q-340	680#	2.0



**OPTIONS**

- YES NO  
  SEISMIC/WIND CONSIDERATION  
  SOUND BARRIER PKG.  
  CONDENSING UNIT RAIL PER DWG. NO. \_\_\_\_\_  
  DUCT SUPPORT PKG.

OTHER MATERIALS, COMPOUNDS, OR FINISHES WITH EQUAL OR SUPERIOR PROPERTIES MAY BE SUBSTITUTED AS THEY BECOME AVAILABLE.

**Nathan Deiber, PE**  
2023.06.26  
09:43:47-07'00"  
LISCENSED PROFESSIONAL ENGINEER  
ANIEL M. DEIBER  
CIVIL  
STATE OF CALIFORNIA

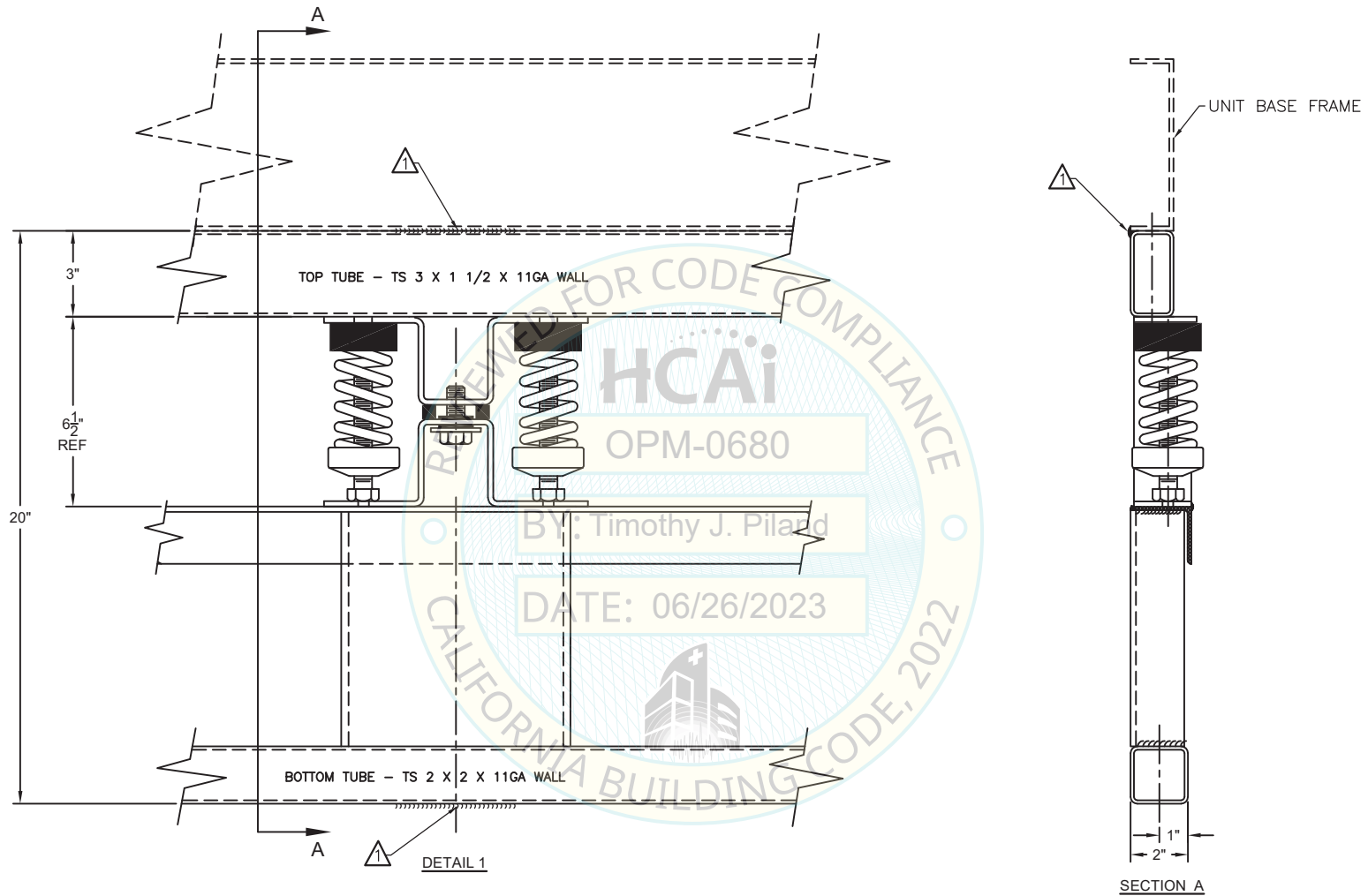
**P-6200 ISOLATED SEISMIC/WIND RESTRAINT ROOF CURB**

**THE VMC GROUP**  
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Bloomington, NJ 07403  
Houston, TX 77041

SCALE: <b>NONE</b>		REVISION
SHEET: <b>1 OF 1</b>		<b>A</b>
DRAWING NO.: <b>VMA-45860A</b>		

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REV.	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	03/23/10	RJG



1 RDP RESPONSIBLE FOR AHU TO CURB WELDMENT AND CURB TO STRUCTURE ATTACHMENT

OTHER MATERIALS, COMPOUNDS, OR FINISHES WITH EQUAL OR SUPERIOR PROPERTIES MAY BE SUBSTITUTED AS THEY BECOME AVAILABLE.

Daniel M. Deiber, PE  
 2023.06.26  
 09:45:11.07'00

P-6100 / P-6200 ISOLATED SEISMIC/WIND RESTRAINT ROOF CURB DETAILS AND SECTIONS



**THE VMC GROUP**  
 The Power of Together  
 Bloomingdale, NJ 07403  
 Houston, TX 77041

SCALE: NONE

SHEET: 1 OF 1

DRAWING NO.: VMA-45860B



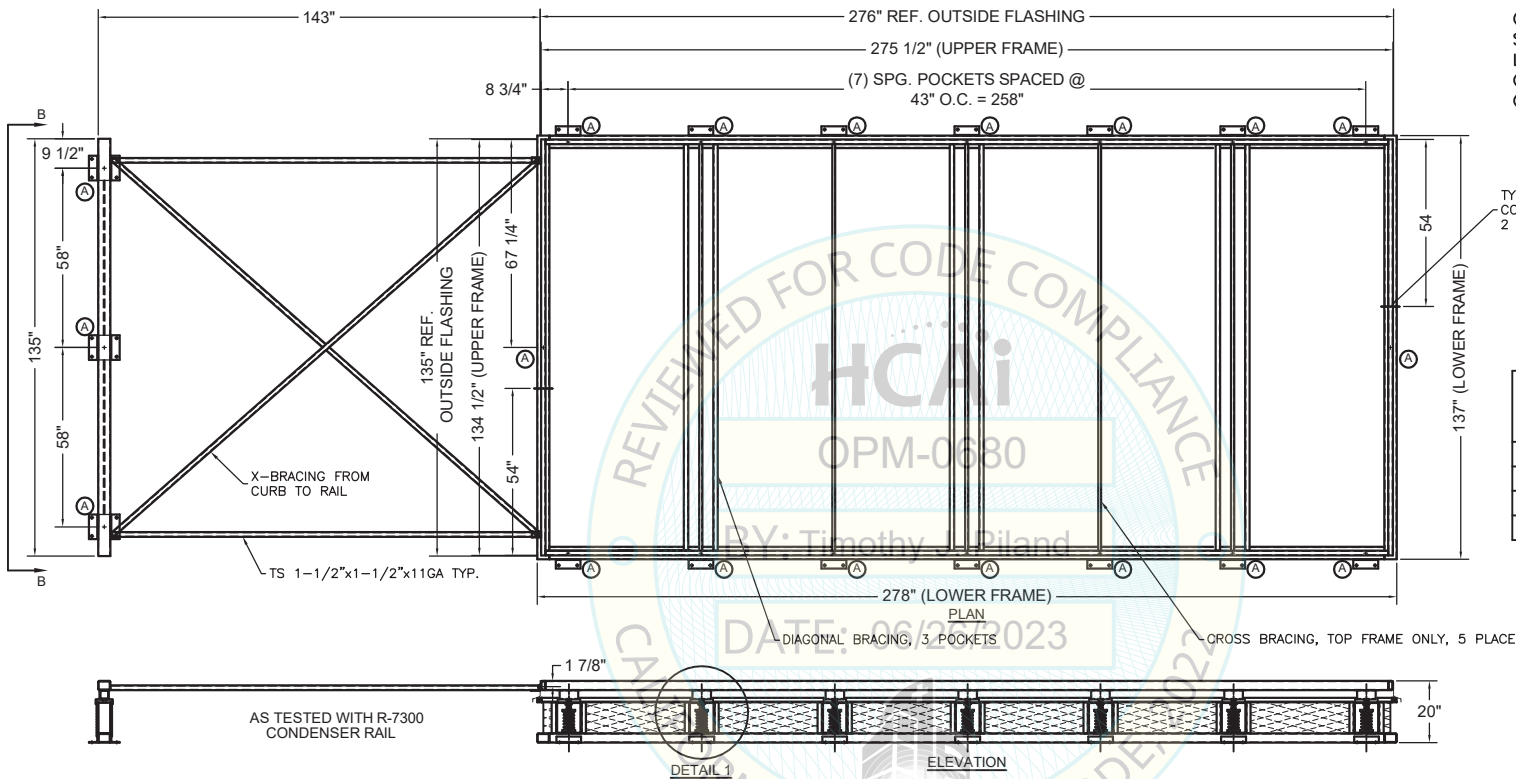
REVISION A

PROPRIETARY: EXCEPT AS OTHERWISE AGREED IN WRITING, THE INFORMATION AND DESIGN DISCLOSED HEREIN ARE THE PROPERTY OF THE VMC GROUP AND MUST NOT BE COPIED OR DISTRIBUTED OUTSIDE THE VMC GROUP EXCEPT TO AUTHORIZED PERSONS WITH A GENUINE NEED TO KNOW WHO BY THE USE HEREOF ACKNOWLEDGE THE VMC GROUP'S OWNERSHIP AND AGREE TO MAINTAIN THIS INFORMATION AND DESIGN IN STRICT CONFIDENCE.

REV.	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	02/25/14	RJG
B	CHANGED CURB HEIGHT	04/28/14	RJG

**CURB DATA**

TOTAL CURB WEIGHT: 1275 LBS.  
 QUANTITY: 1  
 SHIPPED IN 2 SECTION(S)  
 LOWER RAIL O.A. DIMENSIONS: 278"X137"  
 CURB HEIGHT: 20" RAIL HEIGHT: 20"  
 CURB LINEAL FOOTAGE: 79 3/4'



TYP. SPLIT CONNECTION  
2 PLACES

SPRING POCKET LOCATION	SPRING IDENT. NO.	MAX. STATIC SPRING LOAD PER POCKET	MAX. DEFL. (IN.)
A	T3Q-1500N	1500#	3.0

Nathaniel Deibler PE  
 2023.06.26  
 09:43:57-07'00'  
 Exp. 3/25  
 CIVIL  
 STATE OF CALIFORNIA

- OPTIONS**
- |                                     |                                     |   |
|-------------------------------------|-------------------------------------|---|
| YES                                 | NO                                  |   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | SEISMIC CONSIDERATION                   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | CONDENSING UNIT RAIL PER DWG. NO. _____ |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | SOUND BARRIER PKG.                      |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | DUCT SUPPORT PACKAGE                    |

**CERTIFIED FOR:**

JOB NAME: YPAL AHU TESTING

CUSTOMER: JCI

CUSTOMER P.O.: \_\_\_\_\_

SALES ORDER: \_\_\_\_\_

**P-6300 ISOLATED SEISMIC/WIND RESTRAINT ROOF CURB**



SCALE: NONE

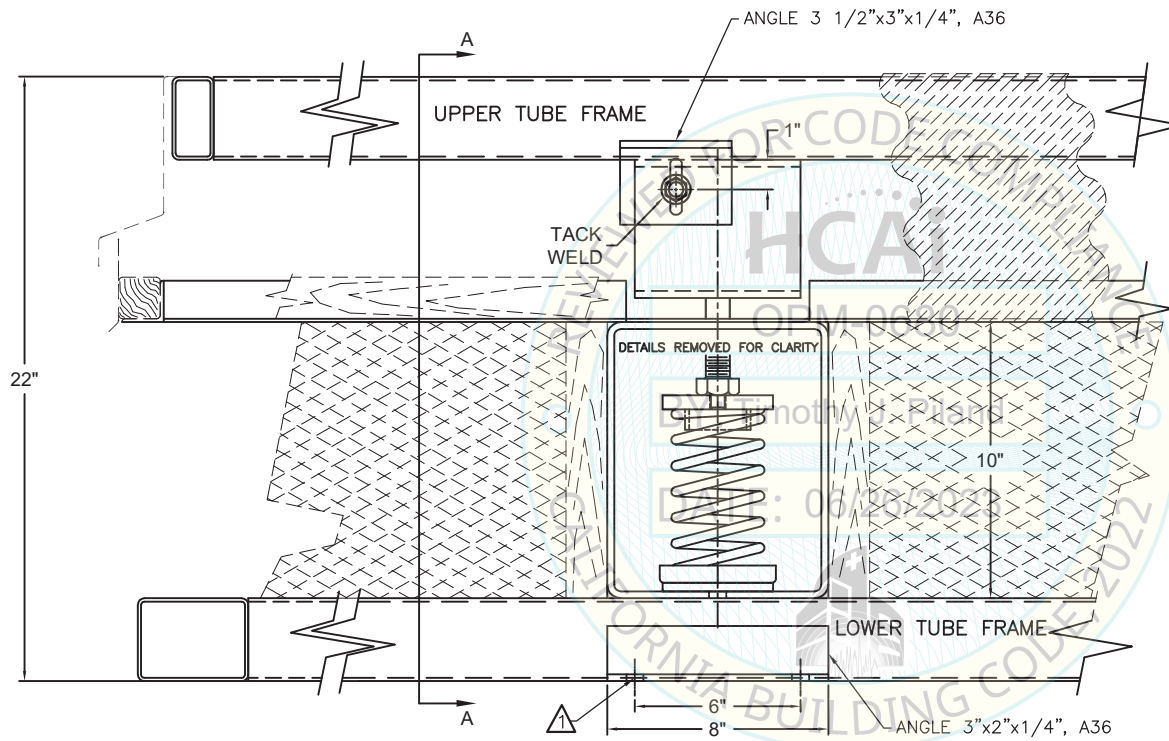
SHEET: 1 OF 1

DRAWING NO.: VMA-49202-02

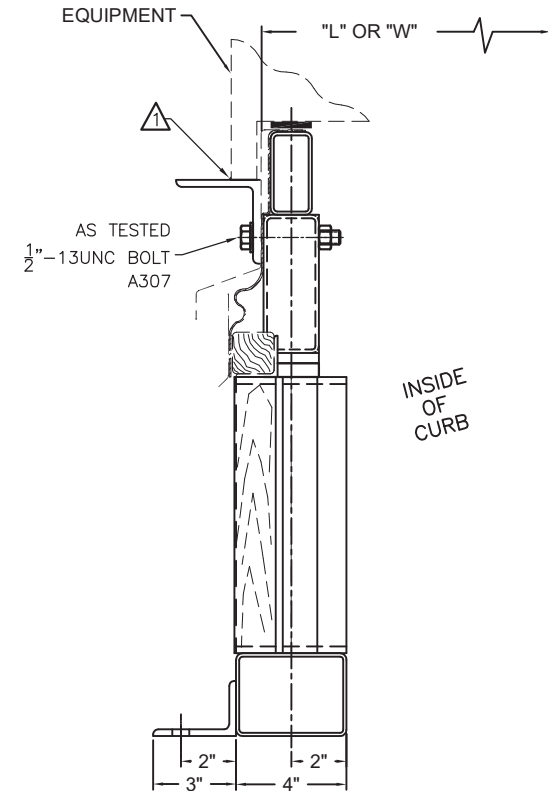
REVISION: B

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REV.	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	02/25/14	RJG



DETAIL 1



SECTION A

1 RDP RESPONSIBLE FOR AHU TO ANGLE WELDMENT AND CURB TO STRUCTURE ATTACHMENT

OTHER MATERIALS, COMPOUNDS, OR FINISHES WITH EQUAL OR SUPERIOR PROPERTIES MAY BE SUBSTITUTED AS THEY BECOME AVAILABLE.

**Nathaniel Deiber, PE**  
 LICENSED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA  
 2023.06.26  
 09:44:02-07'00"

**P-6300 ISOLATED  
 SEISMIC/WIND RESTRAINT  
 ROOF CURB  
 DETAILS AND SECTIONS**



**THE VMC GROUP**  
*The Power of Together*  
 Bloomingdale, NJ 07403  
 Houston, TX 77041

SCALE:  
 NONE

SHEET:  
 2 OF 2

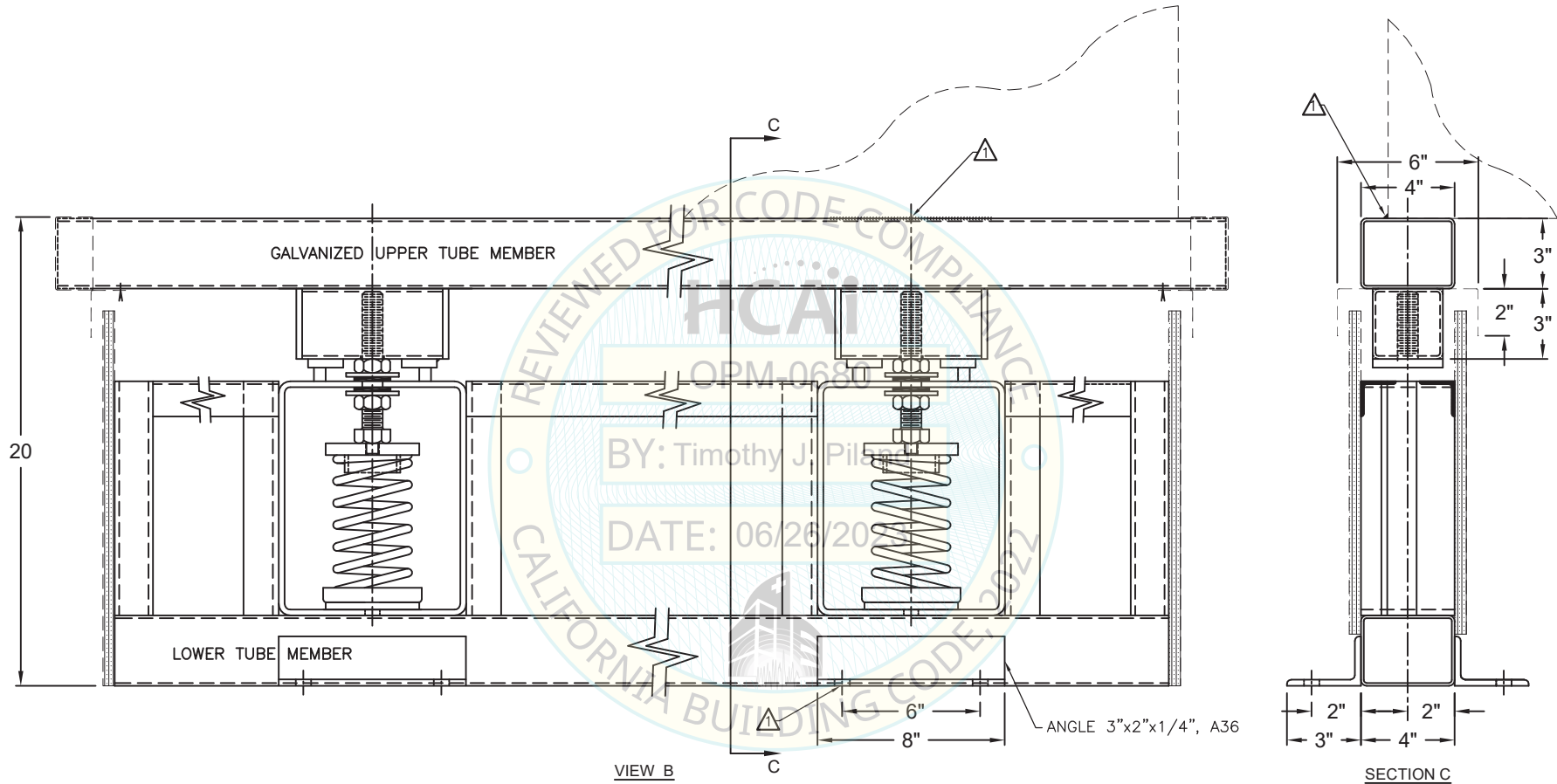
DRAWING NO.:  
**VMA-49202-05**



REVISION  
**A**

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REV.	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	03/25/14	RJG



1 RDP RESPONSIBLE FOR AHU TO CURB WELDMENT AND CURB TO STRUCTURE ATTACHMENT

OTHER MATERIALS, COMPOUNDS, OR FINISHES WITH EQUAL OR SUPERIOR PROPERTIES MAY BE SUBSTITUTED AS THEY BECOME AVAILABLE.



P-6300 (R-7300)  
SEISMIC/WIND RESTRAINT  
SPRING ISOLATED RAIL  
DETAILS & SECTIONS



**THE VMC GROUP**  
The Power of Together  
Bloomington, NJ 07403  
Houston, TX 77041

SCALE:

NONE

SHEET:

2 OF 2

DRAWING NO.:

VMA-49202-06

REVISION

A



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