

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A – PROPERTY INFORMATION		FOR INSURANCE COMPANY USE			
A1. Building Owner's Name ADAMS 308 N. CURRY LLC		Policy Number:			
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 305 N NEVADA ST.		Company NAIC Number:			
City CARSON CITY	State NV	ZIP Code 89703			
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) APN: 003-228-02					
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL					
A5. Latitude/Longitude: Lat. 39°09'57"N Long. 119°46'06"W		Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983			
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.					
A7. Building Diagram Number 1b					
A8. For a building with a crawlspace or enclosure(s):					
a) Square footage of crawlspace or enclosure(s) 0 sq ft					
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 0					
c) Total net area of flood openings in A8.b 0 sq in					
d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
A9. For a building with an attached garage:					
a) Square footage of attached garage 1,150 sq ft					
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 0					
c) Total net area of flood openings in A9.b 768 sq in					
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
B1. NFIP Community Name & Community Number CARSON CITY, 320001		B2. County Name CARSON			
B3. State NV					
B4. Map/Panel Number 320010092	B5. Suffix G F	B6. FIRM Index Date 12/22/16	B7. FIRM Panel Effective/Revised Date 12/22/16	B8. Flood Zone(s) AO	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 4625.32'
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input checked="" type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 315 N NEVADA ST.			Policy Number:
City CARSON CITY	State NV	ZIP Code 89703	Company NAIC Number

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: GPS POINT NO. DT46073 Vertical Datum: 4682.5 FEET (NAVD 88)

Indicate elevation datum used for the elevations in items a) through h) below.

NGVD 1929 NAVD 1988 Other/Source: _____

Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	<u>4686.32</u>	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters
b) Top of the next higher floor	<u>4699.49</u>	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters
c) Bottom of the lowest horizontal structural member (V Zones only)	<u>N/A</u>	<input type="checkbox"/> feet	<input type="checkbox"/> meters
d) Attached garage (top of slab)	<u>4686.0</u>	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters
e) Lowest elevation of machinery or equipment servicing the building (RP) (Describe type of equipment and location in Comments)	<u>4683.0 4685.8</u>	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters
f) Lowest adjacent (finished) grade next to building (LAG)	<u>4686.46</u>	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters
g) Highest adjacent (finished) grade next to building (HAG)	<u>4686.80</u>	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	<u>4686.82</u>	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. *I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No Check here if attachments.

Certifier's Name ROBERT DARNEY		License Number 3044	 <i>Robert Darney</i> 10-15-18 Seal Here
Title ARCHITECT			
Company Name ROBERT M. DARNEY, Architect			
Address 3655 Arrowhead Dr. #142			
City CARSON CITY	State NV	ZIP Code 89706	
Signature 	Date 10-16-18	Telephone 775-721-7563	
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.			
Comments (including type of equipment and location, per C2(e), if applicable) AC UNITS ARE ON THE GROUND			

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City <i>CARSON CITY,</i>	State <i>NV</i>	ZIP Code <i>89703</i>	Company NAIC Number

SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).

a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the LAG.

E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ feet meters above or below the HAG.

E3. Attached garage (top of slab) is _____ feet meters above or below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is _____ feet meters above or below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner or Owner's Authorized Representative's Name

Address	City	State	ZIP Code <input checked="" type="checkbox"/>
Signature	Date	Telephone	
Comments			

Check here if attachments.

ELEVATION CERTIFICATE

OMB No. 1660-0008
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City CARSON CITY	State NV	ZIP Code 89703	Company NAIC Number
SECTION G – COMMUNITY INFORMATION (OPTIONAL)			
The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.			
<p>G1. <input type="checkbox"/> The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)</p> <p>G2. <input type="checkbox"/> A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.</p> <p>G3. <input type="checkbox"/> The following information (Items G4–G10) is provided for community floodplain management purposes.</p>			
G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate of Compliance/Occupancy Issued	
G7. This permit has been issued for: <input type="checkbox"/> New Construction <input type="checkbox"/> Substantial Improvement			
G8. Elevation of as-built lowest floor (including basement) of the building: _____ <input type="checkbox"/> feet <input type="checkbox"/> meters Datum _____			
G9. BFE or (in Zone AO) depth of flooding at the building site: _____ <input type="checkbox"/> feet <input type="checkbox"/> meters Datum _____			
G10. Community's design flood elevation: _____ <input type="checkbox"/> feet <input type="checkbox"/> meters Datum _____			
Local Official's Name		Title	
Community Name		Telephone	
Signature		Date	
Comments (including type of equipment and location, per C2(e), if applicable)			
<input type="checkbox"/> Check here if attachments.			

LEVELATION CERTIFICATE**BUILDING PHOTOGRAPHS**

See Instructions for Item A6.

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City CARSON CITY	State NV	ZIP Code 89703	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.

*NORTHWEST VIEW
10/10/18*



Photo One

Photo One Caption

Clear Photo One



Photo Two

SOUTHWEST VIEW 10/10/18

Photo Two Caption

Clear Photo Two

ELEVATION CERTIFICATE**BUILDING PHOTOGRAPHS**

Continuation Page

OMB No. 1660-0008
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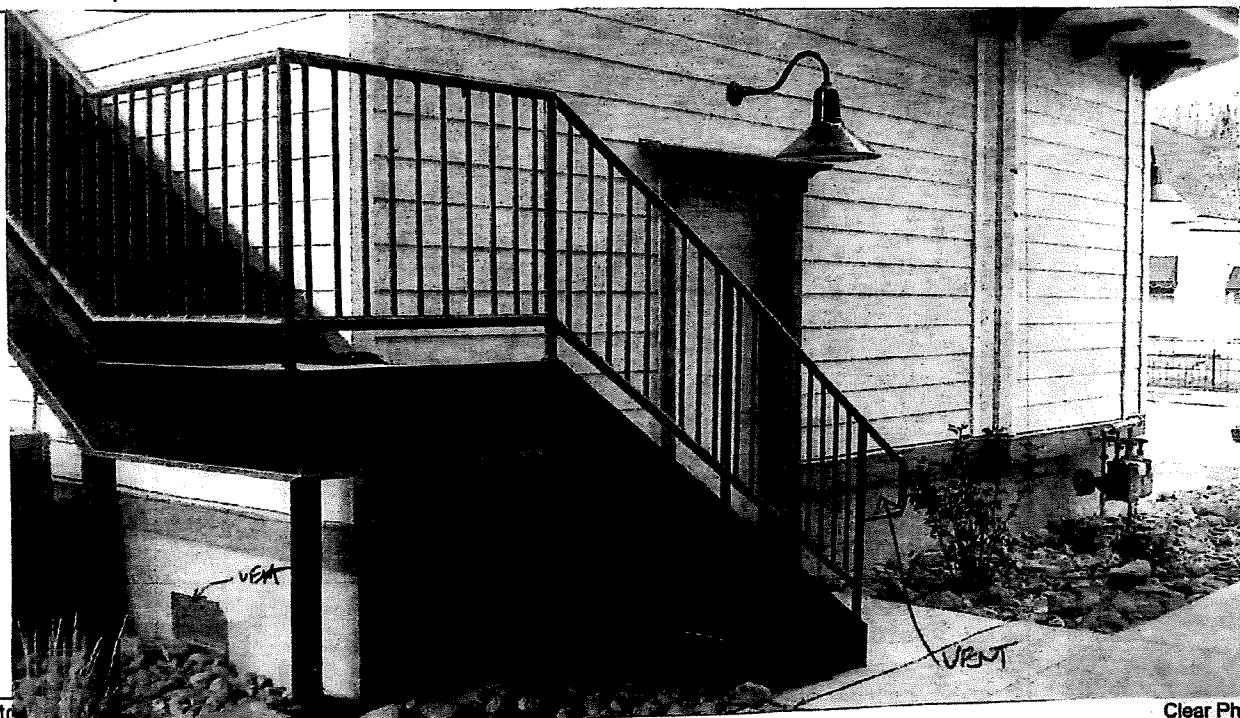
IMPORTANT: In these spaces, copy the corresponding information from Section A.		FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <i>315 N NEVADA ST.</i>		Policy Number:	
City <i>CARSON CITY</i>	State <i>NV</i>	ZIP Code <input checked="" type="checkbox"/> <i>89703</i>	Company NAIC Number

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.



Photo Three Caption

Clear Photo Three



Photo

Clear Photo Four

Robert M. Darney, Architect

3655 Arrowhead Dr. #142,
NEVADA

Carson City, Nevada 89706
ARIZONA

October 30, 2018

Carson City Public Works
108 E. Proctor St.
Carson City, Nevada 89701

Attn: Stephen Pottey, PE

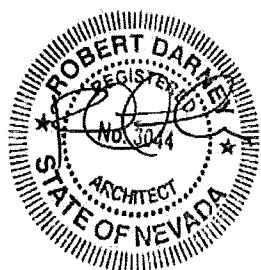
Project: 308 N. Curry St.
CCBD Project No: 15-1084
Project Address: 308 N. Curry St., Carson City, NV

Flood Resistive materials for Building 'B' 308 N. Curry St. Project:

1. The Building has poured concrete floors and stemwalls up to elevation 4688.7. No wood framing is below this line.
2. Siding materials: a. Cementous horiz. lap, painted.
b. Cultured stone veneer. (Eldorado Stone)
3. Insulation: Rigid foam under slab.
4. No wall sheathing has been installed below 4688.7.
5. No electrical outlets have been installed below 4688.7.
6. Flood Vents installed: USA Foundation Flood Air Vents
Model: FAAL

Thank You,

Rob Darney

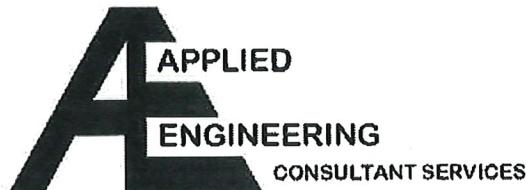


ARCHITECTURE
TEL: (775) 721-7563

PLANNING
FAX: (775) 882-9430

DESIGN
EMAIL: darneyarch@sbcglobal.net

SCALE MODELS



4825 Convair Drive, Suite 17; Carson City, Nevada 89706
Telephone (775) 888-9939; appliedeng@pyramid.net

October 23, 2018
Project No. 125-649-17

Mr. Stephen Pottey, P.E.
Carson City Public Works
108 E. Proctor Street
Carson City, Nevada 89701

Re: Flood Vent Cerification
Proposed 308 N. Curry Street Building Project
Building B Garages 8, 9 and 10
308 N. Curry Street (APN: 003-228-04)
Building Permit No.: 18-214
Carson City, Nevada

Dear Mr. Pottey:

This letter is to certify that all required flood vents for Proposed 308 N. Curry Street Building Project Building B - Garages 8, 9 and 10 have been installed per the design and permitted drawings from Robert Darney, Project Architect (See Sheet B1R attached) as filed with the Carson City Public Works and Community Development Department. Sheet B1R exhibits each garage space within the flood plain and the respective flood vent size calculation for each space within Building B. Two (2) flood vents were provided for each garage space.

We appreciated the opportunity to provide our professional services in completing the project. Upon your review, if additional information is needed or if we can be of further assistance, please call our office at your earliest convenience.

Sincerely,

A handwritten signature in blue ink that reads "Gary L. Hopper".

Gary L. Hopper, P.E.
Principal Engineer





Certification of Engineered Flood Openings

In accordance with NFIP, FEMA Technical Bulletin 1-08 and ASCE/SEI 24-05

Certification Statement

I hereby certify that the flood vents manufactured by USA Foundation Flood Air Vents (Model No's FO-316, FA-316, FOAL-W, FOAL-B, FAAL, RFPC and RFSS) are designed in accordance with the requirements of the 2011 NFIB "Flood Insurance Manual" to provide automatic equalization of hydrostatic flood loads on exterior walls by allowing the automatic entry and exit of floodwaters during floods up to and including the base 100-year flood. The flood vents must be installed and sized properly as set forth by the requirements below. This certification follows the design requirements and specifications that are established in FEMA Technical Bulletin 1-08 and ASCE/SEI 24-05.

Design Characteristics

I hereby certify that I have measured the flood vent models listed below. I have also calculated the maximum total enclosed area that can be served by each individual model based on the net area of the opening using the equation taken from ASCE/SEI 24-05, Section 2.6.2.2 and the following design assumptions listed below.

Design Assumptions:

1. The rates of rise and fall have been assumed to be 5 feet per hour.
2. The maximum difference between the exterior and interior floodwater levels have been assumed to be 1 foot during base flood conditions.
3. A factor of safety of 5 has been used in the design.

Area of Engineered Openings per ASCE 24, Section 2.6.2.2

$$A_e = (0.0333)[1/c]R(A_o) \rightarrow A_e = A_o / [(0.0333)[1/c]R]$$

Where:

$$A_o =$$

$$0.033 =$$

$$c =$$

$$R =$$

$$A_e =$$

Total Net Area of Openings Required (in²)

Coefficient Corresponding to a Factor of Safety of 5.0 (in²·hr/ft³)

Opening Coefficient (Non-Dimensional; see ASCE 24, Table 2-2)

Worst Case Rate of Rise and Fall (ft/hr)

Total Enclosed Area (ft²)

Maximum Area Coverage in Square Feet per Vent for each Model							
Model	Height (in.)	Width (in.)	A _o (in. ²)	Constant (in ² ·hr/ft ³)	c	R (ft/hr)	A _e (ft ²)
FO-316	7.00	15.50	108.50	0.0330	0.400	5	263
FA-316	7.00	15.50	108.50	0.0330	0.400	5	263
FOAL-W	7.00	15.50	108.50	0.0330	0.400	5	263
FOAL-B	7.00	15.50	108.50	0.0330	0.400	5	263
FAAL	7.00	15.50	108.50	0.0330	0.400	5	263
RFPC	7.00	13.75	98.25	0.0330	0.398	5	232
RFSS	7.00	13.75	96.25	0.0330	0.398	5	232

*Note: (A_e) is the maximum total enclosed area that can be served for each individual model based on the net area of the opening (A_o)

Limitations and Installation Requirements

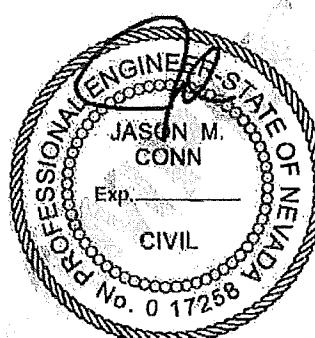
This certification will be voided in its entirety if the following installation requirements and limitations are not enforced. USA Foundation Flood Air Vents and Conn Engineering Consultants, Inc. do not recommend or authorize any modifications to the flood vents and will not be held liable for improper installation or modification of the flood vents.

FEMA/ NFIP Limitations and Installation Requirements:

1. A minimum of two openings having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding shall be provided.
2. The bottom of all openings shall be no higher than one foot above grade that is immediately under each opening.
3. Openings may be equipped with screens, louvers, valves or other coverings or devices provided that they permit the automatic entry and exit of floodwaters.
4. It is recommended that openings be reasonably distributed around the perimeter of the enclosed area unless there is clear justification for putting all openings on just one or two sides (such as in townhouses or buildings set into sloping sites).
5. Where analysis indicates rates of rise and fall greater than 5 feet per hour, the total enclosed area shall be reduced accordingly.

Design Professional	
Name / Title:	Jason M. Conn, P.E. President, Conn Engineering Consultants, Inc.
Address:	107 N. Bridge St., Linden, MI 48451
License Type:	Professional Engineer
State:	NEVADA
License Number:	0 17258
Installation Address	
Customer and Installation Address:	
Name:	SAMPLE
Address:	SAMPLE
City, State, Zip:	SAMPLE
Model Installed	
Model Number:	NOT APPLICABLE
Maximum total enclosed area that can be served for EACH individual vent	
SEE TABLE ABOVE	

Professional Engineering Seal



FLOOD AIR POWDER COATED & STAINLESS STEEL

MODELS: FAAL & FA-316



FIGURE 1

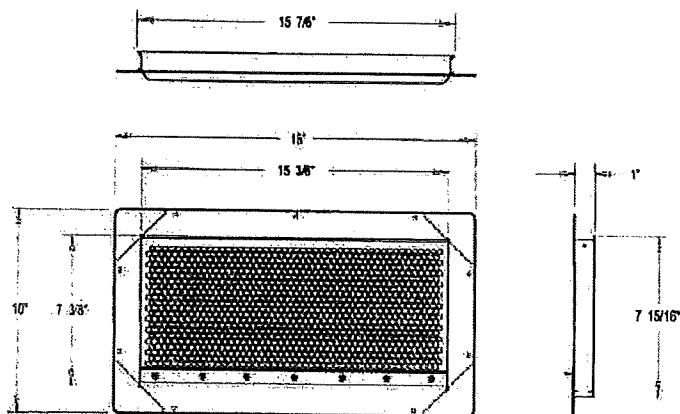


FIGURE 2 - ROUGH OPENING DIAGRAM

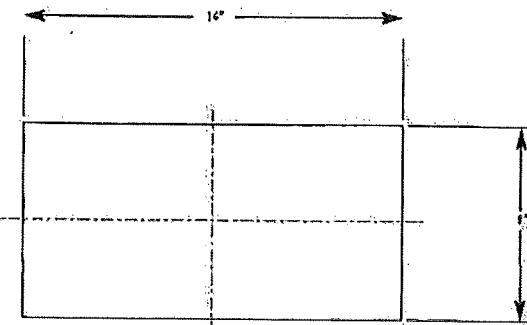


FIGURE 3 - BLOCK WALL INSTALLATION

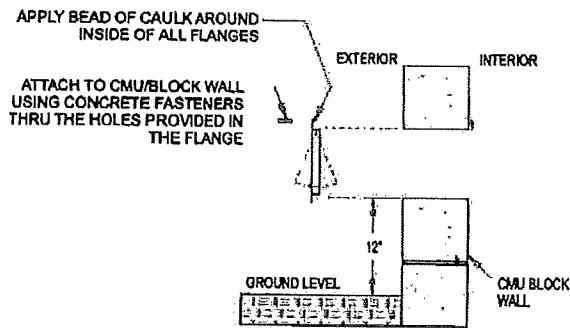
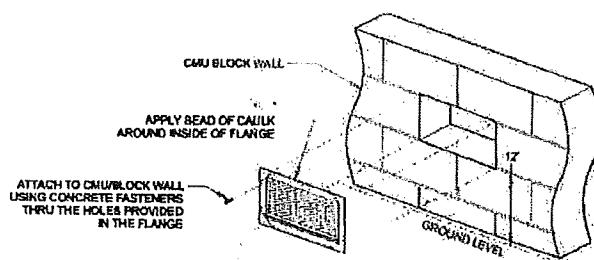


FIGURE 4 - BLOCK WALL INSTALLATION



NOTE: Clear caulk is recommended for best results.

AVAILABLE COLORS
FOR POWDER COATING

- Grey
- White
- Black

