AIS/BABA Waiver Request Form

Provide the following information in this form or as an attachment.

Borrower and Project Information

1. Legal name of borrower or prospective borrower and WIFIA Loan ID (if available):

   City of Sunnyvale - #N18121CA

2. WIFIA Project name:

   Sunnyvale Cleanwater Program Phase 2

3. Waiver Request Contact List. Provide the names and email addresses of all person(s) who should be contacted in regards to this waiver request:

   Andria Loutsch - loutschar@cdmsmith.com

   Juliana Vazquez – vazquezje@cdmsmith.com

   Erin McGuire - mcguireem@cdmsmith.com

Waiver Request Information

1. Under which domestic preference requirements is the waiver being requested? **Please select only one.** If applying for a waiver under BABA, there is no need to apply for a separate waiver under AIS.

   ☒ AIS ☐ BABA

2. Type of waiver being requested:

   ☒ Product Availability ☐ Public Interest ☐ Cost

3. Provide a brief explanation of the need for a waiver:

   The City of Sunnyvale is requesting a project specific waiver of the AIS requirements due to lack of availability of [redacted] of preformed channel concrete inserts.

4. For **product availability** waiver requests, complete the following table to provide information about the product(s) for which the waiver is being requested. ***For each product listed, attach a copy of the relevant technical specifications of the product to this form.***

Product Name	Brief description (include material type and size)	Unit Cost of non-domestic product	Unit Cost of domestic product *	Quantity Needed	Date product is needed
Preformed concrete channel insert	Hot dip galvanized carbon steel	[redacted] HDG Embedded Hilti Strut		[redacted]	December 2025

*Complete this column only if domestic products are available.

5. For **product availability** waiver requests, describe the efforts made to source products compliant with AIS or BABA. The narrative may include a list of manufacturers or suppliers contacted and responses received. Include any email correspondence with manufacturers or suppliers as an attachment to this form.

Santa Fe Water Systems (SFWS) has conducted a thorough online & materials network research exercise to identify possible domestic resources that produce the products to meet the project's technical provisions and with AIS certification within the models requested.

Each Manufacturer listed below was contacted by SFWS personnel to request AIS product quotations. SFWS research included the following response data and concluded that they were unable to locate a known source for these products:

Spec. #	*Qty*	*Size*	*Product Description*	*Mfg. Contacted & Response*	
15062-2.02A			*Preformed Channel Conc. Inserts*		
Hilti	[redacted]	N/A	AIS unavailable	See below correspondence.	Bill Foster, Tripac (951-280-4488 ext. 112) billf@tripaconline.com
Jordahl		N/A	AIS unavailable	Verbal confirmation of non-AIS. Jordahl has not provided email correspondence.	T +1 (440) 610-5009 shaun.blott@jordahlusa.com
Leviat		N/A	AIS unavailable	See below correspondence.	C: +1 (916) 217-4491 D: +1 (916) 234-5658 E. ben.wagner@leviat.us | Leviat.com

6. For **public interest** waiver requests, please provide a brief explanation why compliance with AIS or BABA is not in the public's interest. Public interest waivers may be requested for the entire

project or for specific products. If the waiver is being requested for specific products, please include a list of the products in the narrative.

N/A

7. For **cost** waiver requests, identity the total project cost without AIS or BABA requirements and demonstrate that the total project cost increases by more than 25 percent with the requirements. Include supporting costs documentation, such as itemized cost estimates comparing projects costs with either AIS or BABA requirements versus without the requirements, as an attachment to this form.
   N/A

8. **For all waiver requests**, identify the total estimated material cost of the project:

   [redacted]

Signature: The undersigned is an authorized representative of the (prospective) borrower. By signing below the undersigned is certifying that the borrower or prospective borrower made a good faith effort to solicit bids for domestic products supported by terms included in requests for proposals, contracts, and nonproprietary communications with the prime contractor.

Signature: Michael Frederick Digitally signed by Michael Frederick DN: C=US, E=mfrederick@sunnyvale.ca.gov, O=City of Sunnyvale, OU=Public Works, CN=Michael Frederick Date: 2025.04.14 11:42:21-07'00'

Date Signed: 4/14/25

Name: Michael Frederick
Title: Senior Engineer
Organization: City of Sunnyvale, Department of Public Works
Phone: 408-730-7565
E-mail: mfrederick@sunnyvale.ca.gov

NOTE:
This waiver submission may include references to proprietary items and brand name products. These references have been retained to provide context for the waiver submission. EPA does not evaluate a waiver based on a proprietary item but reviews the performance-based specifications for the project/products. As such, any references to brand or proprietary items are reviewed on an "or equal" basis by EPA.

Items and pages may have been intentionally redacted or excluded by the EPA. Contact WIFIAWaiver@epa.gov for more information if necessary.

Specification Section 15062

SECTION 15062

PREFORMED CHANNEL PIPE SUPPORT SYSTEM

PART 1 GENERAL

1.01 SUMMARY

A. Section includes: Preformed channel pipe support system consisting of preformed channels, fittings, straps, and fasteners engineered to support piping.

1.02 REFERENCES

A. American Institute of Steel Construction (AISC).

B. American Iron and Steel Institute (AISI).

C. Manufacturer's Standardization Society (MSS):
   1. SP-58 - Pipe Hangers and Supports - Materials, Design, and Manufacture.

1.03 SYSTEM DESCRIPTION

A. Design responsibility:
   1. The manufacturer of the preformed channel pipe support system is responsible for the design of the support system.
   2. Prepare design calculations utilizing the design criteria included in these Specifications.
   3. Prepare detailed shop drawings illustrating the layout of the support system and identifying the components of the support system.

B. Design criteria:
   1. Include live, dead, and seismic loads associated with piping, valves, and appurtenances. Consider the content of the pipes in load calculations.
   2. Minimum gauge thickness: 12 gauge.
   3. Allowable stress of channels:
      a. Steel channels: The lesser of 25,000 pounds per square inch, or 0.66 times yield stress of steel.
      b. Stainless steel channels: 0.66 times the yield stress of the stainless steel alloy.
   4. Maximum deflection: 1/240 of span.
   5. Allowable column loads: As recommended by manufacturer in published instruction for column's unsupported height and "K" value for calculating effective column length of not less than 1.0.
   6. Future loads:
      a. Support systems indicated on the Drawings may include spaces intended to accommodate future pipes.

b. Assume such spaces are occupied by 6-inch diameter ductile iron pipes. Only the number of pipes that would physically fit into the space need be considered.
c. Include the weight of the pipe contents in determining future loads. Assume pipe contents are water.

7. Seismic design criteria: As specified in Section 01612 - Seismic Design Criteria as specified for mechanical equipment.
8. Spacing of supports: As required to comply with design requirements but not more than 5 feet.

C. Supports below the top of walls of water bearing structures: Use Type 316 stainless steel for support system components.
1. Supports in other locations: Use hot-dipped galvanized components unless other materials are specifically indicated on the Drawings.

1.04 SUBMITTALS

A. Submit as specified in Section 01340 – Shop Drawings, Product Data and Samples.

B. Product data.

1.05 QUALITY ASSURANCE

A. Design preformed channel pipe support system for loads in accordance with applicable provisions of:
1. AISC Manual of Steel Construction.
2. AISI Cold-Formed Steel Design Manual.

B. Product standards:
1. Pipe support materials: In accordance with MSS SP-58.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Fabricate preformed channel pipe support system using, as a minimum, parts specified below and meeting the requirements specified under Design Criteria. Materials, including all accessories, as specified in Section 15061, Pipe Supports unless indicated otherwise herein.
1. Manufacturers: One of the following or equal:
a. Unistrut, Series P1000 or P1001; P5500 or P5501.
b. Allied Support Systems, Power Strut, Figure PS-200 or PS-200 2TS; PS-150 or PS-150 2TS.
c. Cooper Ind., B-Line, Channel Type B22 or B22A; B12 or B12A.

2.02 ACCESSORIES

A. Preformed channel concrete inserts: Minimum 12 inches long:
   1. Material: Hot Dip Galvanized carbon steel.
   2. Manufacturers: One of the following or equal:
      a. Unistrut, Series P-3200.
      b. Allied Support Systems, Figure 282.
      c. Cooper Ind., B-Line Series B32I.

B. 90-degree angle fittings:
   1. Manufacturers: One of the following or equal:
      a. Unistrut, P1026.
      b. Allied Support Systems, Power Strut, P603.

C. Pipe straps:
   1. For pipes 8 inches in diameter and smaller: Use 2-piece universal strap with slotted hex head screw and nut.
      a. Manufacturers: One of the following or equal:
         1) Unistrut, Series P1109 through P1126.
         2) Allied Support Systems, PS1100.
         3) Cooper Ind., B-Line Series B2000.
   2. For pipes greater than 8 inches in diameter: Unless different material is otherwise indicated on the Drawings use 1-piece 1-inch wide by 1/8-inch thick steel strap, hot-dip galvanized after fabrication.
   3. For stainless steel pipes: Use type of strap required for the pipe sizes specified above, but use Type 316 stainless steel materials.

D. Prefabricated double channel bracket:
   1. Manufacturers: One of the following or equal:
      a. Unistrut, P2542-P2546.
      b. Cooper Ind., B-Line Series B297.

E. Touch-up paint for galvanized surfaces:
   1. Manufacturers: The following or equal:
      a. Galvinox, Galvo-Weld.

F. Touch-up paint for painted surfaces: Same formulation as factory paint.

G. Cushion strip:
   1. For solvent welded plastic pipes in elevated temperatures, use a thermoplastic elastomer, cushion wrap designed for use from -50 degrees Fahrenheit to 275 degrees Fahrenheit. Contractor to add a cushion strip at each pipe support strap that meets this criteria.
      a. Manufacturers: One of the following or equal:
         1) Anvil, AS 3795.
         2) Unistrut, P2600 Unicushion.

2.03 FABRICATION

A. Hot-dip galvanize support system components after fabrication to required length and shape.

B. Do not galvanize or paint stainless steel components.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install preformed channel concrete inserts for vertical support, quantity based on manufacturer's structural design calculations.

B. Fasten preformed channel pipe supports to existing walls using Z-fittings and concrete anchors as indicated on the Drawings.

C. Fasten preformed channel pipe supports to preformed channel concrete inserts embedded in ceiling using U-shaped fittings.

D. Suspend threaded rods from concrete inserts embedded in ceiling. Support preformed channel pipe supports with threaded rods.

E. Touchup cut or damaged galvanized surfaces.

F. Prevent contact between pipes and support components of dissimilar metals. Utilize rubber coated, plastic coated, or vinyl coated components, stainless steel components, or wrap pipe with PVC or polyethylene tape.

G. Install support as near as possible to concentrated loads.

H. Install support within 2 feet of horizontal and vertical changes in pipe alignment.

I. Adjust supports or install shims to obtain specified slope or elevation.

END OF SECTION