

# ePlan Submittal Checklist

Form **PLG-230** 

This form is required to be the first page of the Application (APP) file. For help with submittals, see the ePlan User Guide & ePlan Video Series

The preparer is legally responsible for signatures whether a graphic, typewritten, or handwritten. Documents may not be restricted by digital signatures or otherwise

## Notice to Building Permit Applicant

- Building permit questions: <u>Planning.BuildingInfo@santacruzcounty.us</u>. Visit our website for hours of operation and other contact information.
- 2. Effective 11/1/20: ePlan electronic submittal required for all projects requiring a review. Permit status and corrections must be tracked online.
- 3. Application fees are not refundable, except as specified in the Planning Department Fee Schedule.
- 4. You must advise residents of the subject property that Planning Department staff may be visiting the site. The site must be clearly marked/staked for staff inspection. Incomplete directions or markings will delay the review of the project.
- 5. If you have begun any activity requiring County review or approval without first obtaining a permit, you will be charged for staff time incurred to investigate the violation and costs for staff time that accrue until the

- violation is resolved. Authority for these charges is found in Chapter 1.12 of the Santa Cruz County Code.
- Actions by County staff regarding your Building Permit Application may be appealed. For guidance on how to file an appeal, contact the Building Counter of the Planning Department or refer visit our website.
- 7. Extension Policy: You have until the expiration date of this application to resolve all deficiencies and obtain your permit. Per County Code, the expiration date is two years after the application date or six months from the date the application is approved whichever comes first. Extensions of the expiration date are rarely granted and only in extreme cases where extenuating circumstances can be shown.
- 8. Notice to Applicants for Commercial Building Permits: AB3002

The undersigned applicant hereby authorizes the filing of this application and authorizes staff to visit the subject property. I understand that staff may visit the property both during the review process and following the issuance of the permit. I certify to the best of my ability that the submittal information is true and correct, and that I have read and understand the above.

Applicant Signature					
Signature:				Da	ate:

#### Application

Upload Submittal files (see below) and notify the Planning Department (option 1 or 2). Staff will create an application and notify you of required intake fees. Payments can be made at the Planning Department or online.

Option 1: Call the Planning Department to schedule an appointment. Tel: 831-454-3252

Option 2: Click the green Send Notification button online. (staff response times shown online or in emails are contingent on current workload)

### **Submittal Files**

## **New Applications**

Application (APP) file, Plans (PLN) and/or Supplemental (SUP).

### Resubmittals

Letter (LTR), Plans (PLN) and/or Supplemental (SUP). Resubmit new APP, PLN, or SUP file if it was revised. To replace existing files, simply upload new ones.

#### File Standards & Submittal Requirements

- → 1 of each file type allowed (APP, PLN, SUP) in PDF format.
- → Files contain all sheets/documents (not simply revised items).
- → Unlocked & flattened (no layers).
- → Bookmarks set to Fit Page with names matching the index.
- → Stamps/signatures are embedded. (Digital signatures not allowed)
- $\rightarrow$  Submittals must meet all County submittal requirements.

The Application (APP) file must include the <u>applicable</u> Intake Items to initiate the permit. After approval by all agencies, the approval letter will identify the Final Items. Prior to permit issuance, add the Final Items to the Application (APP) file (Intake Items + Final Items) and reupload.

[•] Bullet items are mandatory. Mark other included items.

APP file ( <i>intake</i> ) - Intake Items at initial submittal	APP file (final) – add final items to APP file & upload prior to permit issuance
ePlan Submittal Checklist – PLG230 (must be 1st page)	APP file Intake Items
• Building Permit Application – <u>PLG200</u> or <u>PLG205</u> or <u>PLG206</u>	X Owner-Builder Acknowledgement – PLG220
• Owner-Agent Authorization – <u>PLG210</u>	X Fire Department Payment Receipt
Zoning Review/Prescreen (4 <sup>th</sup> Floor)	X School Certificate of Payment
Discretionary Permit No.	X Public water: Unconditional Will Serve Letter
Parcels with Septic: Environmental Health clearance (3 <sup>rd</sup> Floor)	Other(s):
☐ Non-Public water: Environmental Health approval (3 <sup>rd</sup> Floor)	Plans (PLN) & Supplemental (SUP) (see File Standards & Submittal Requirements)
Public water: Conditional Will Serve Letter	Plans (PLN)
Other(s):	Supplemental (SUP) (PLG235 must be first page)



# Building Permit Application Form

Form **PLG-200** 

The preparer is legally responsible for signatures whether a graphic, typewritten, or handwritten. Documents may not be restricted by digital signatures or otherwise.

Project Information All applicants must fill out this section	Staff will assign Permit No
Notice to Applicants for Commercial Building Permits: AB3002	
<u>ePlan</u> electronic submittal required. Effective 11/1/2020: Paper processing i	is discontinued.
APN:	Date:
Project Address:	
Legal Owner:	Email:
Owner Address:	Phone:
Applicant	License No.
Name:	Email:
Address:	Phone:
Design Professional in Charge (if any)	License No.
Name:	Email:
Address:	Phone:
Briefly Describe Scope of Work Indicate square footages of buildings, additi	ons, remodel, retaining walls (face), decks, pools, sheds, trellis, etc.
AX	
<b>Declarations</b> All applicants must fill out this section. Signature applies to both	
	orkers' compensation coverage is unlawful, and shall subject an employer to of compensation, damages as provided for in Section 3706 of the Labor
Code, interest, and attorney's fees. I hereby affirm under penalty of per	
Check only one box:	
provided for by Section 3700 of the Labor Code, for the performan My policy number is:	r workers' compensation, issued by the Director of Industrial Relations as nce of the work for which this permit is issued.
	equired by Section 3700 of the Labor Code, for the performance of the work acc carrier and policy number are:
Carrier:	Phone:
Policy No.:	Expires:
	mit is issued, I shall not employ any person in any manner so as to become that, if I should become subject to the workers' compensation provisions of the provisions.
<b>B. Declaration Regarding Construction Lending Agency.</b> I hereby affirm performance of the work for which this permit is issued (Civil Code Sect	n under penalty of perjury that there is a construction lending agency for the tion 3097). If not using a construction lending agency, write N/A.
Lender's Name:	
Address:	
Licensed Contractor, Property Owner, or Authorized Agent Sign and pri	
Signature:	Date:



# **Building Permit Application Form**

Applicant Information Fill out only the applicant section that applies to you. A. Licensed Contractor or Authorized Agent as Applicant. Company: License No License Class: Licensed Contractor Declaration: I hereby affirm under penalty of perjury that I am licensed under provisions of Business and Professions Code Division 3, Section 7000 of Chapter 9, and my license is in full force and effect. Licensed Contractor or Authorized Agent Sign and print name below Signature: B. Owner-Builder or Authorized Agent as Applicant Owner-Builder's Declaration I hereby affirm under penalty of perjury that I am exempt from the Contractors' State License Law for the reason indicated below. Per Business and Professions Code Section 7031.5, Business and Professions Code: Any city or county that requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for the permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors' State License Law (Chapter 9, commencing with Section 7000, of Division 3 of the Business and Professions Code) or that he or she is exempt from licensure and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500). Check only one (a, b, c): a) I, as owner of the property, or my employees with wages as their sole compensation, will do 🔲 ALL of or 🔲 PORTIONS of the work, and the structure is not intended or offered for sale. Per Business and Professions Code Section 7044, Business and Professions Code: The Contractors' State License Law does not apply to an owner of property who, through employees' or personal effort, builds or improves the property, provided that the improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the Owner-Builder will have the burden of proving that it was not built or improved for the purpose of sale. b) I, as owner of the property, am exclusively contracting with licensed Contractors to construct the project. Section 7044, Business and Professions Code: The Contractors' State License Law does not apply to an owner of property who builds or improves thereon, and who contracts for the projects with a licensed Contractor pursuant to the Contractors' State License Law. c) I am exempt from licensure under the Contractors' State License Law for the following reason: (explain below)

By my signature below, I acknowledge that, except for my personal residence in which I must have resided for at least one year prior to completion of the improvements covered by this permit, I cannot legally sell a structure that I have built as an owner-builder if it has not been constructed in its entirety by licensed contractors. I understand that a copy of the applicable law, Section 7044 of the Business and Professions Code, is available upon request when this application is submitted or at the following Web site: http://www.leginfo.ca.gov/calaw.html. I also certify the following:

- I am the property owner or authorized to act on the property owner's behalf.
- I have read this application and the information I have provided is correct.
- I agree to comply with all applicable county ordinances and state laws relating to building construction.
- I authorize representatives of this county to enter the above identified property for inspection purposes.

Р

Property Owner or Authorized Agent Signature Sign and print name below	V
Signature:	Date:
C. Authorizing an Agent to be the Applicant To be completed by the Lice	nsed Contractor or Owner-Builder
Agent Name:	Phone:
Agent Address:	
Project Address:	
For the Licensed Contractor who is Authorizing an Agent: I authorize the	ne   For the Owner-Builder who is Authorizing an Agent: Except

above-named person to act as my agent to apply for, sign, and file the documents required to obtain a building permit for the project at the listed address. I declare under penalty of perjury that I am the Licensed Contractor for the property listed at the above Project Address, I have filled out this section, and I certify the accuracy of the information provided.

for the Owner Builder Acknowledgement PLG220 which is my personal responsibility, I authorize the above-named person to act as my agent to apply for, sign, and file the documents required to obtain a building permit for my property. I declare under penalty of perjury that I am the Property Owner at the above Project Address; I have filled out this section; and I certify the accuracy of the information provided.

Owner-Builder or Authorized Agent Sign and print name below	
Signature:	Date: _



701 Ocean Street 4 <sup>th</sup> Floor, Santa Cruz, CA 95060 www.sccoplanning.com	Owner-Agent Authorization PLG-210
	ewritten, or handwritten. Documents may not be restricted by digital signatures or otherwise.
Project Information	Permit No.
APN:	Date: 11-10-2020
Project Address:	
Legal Owner:	Email:
Owner Address:	Phone:
Authorized Agent	
Firm Name:	License No.
Name:	Email:
Address:	Phone:
Authorization Statement	
was mailed a copy of the executed acceptance of permit condition.  Service of Process for all matters relating to this application.  Refunds will be made to whomever made the payment.	be required to provide the department with proof of service by mail, that the owner ons. Finally, by signing this form, the owner is designating the agent as their Agent for its online. The legacy process of sending correction letters will be discontinued.  Significantly, by signing this form, the owner is designating the agent as their Agent for its online. The legacy process of sending correction letters will be discontinued.

I declare under penalty of perjury that I am the Property Owner at the above Project Address; I have filled out this document; and I certify the accuracy of the information provided.

Signature of the Owner (who is authorizing the agent)

C:		
Signature:		Date:_



# Owner-Builder Acknowledgement

Form **PLG-220** 

## **Notice to Property Owner**

Dear

An application for a building permit has been submitted in your name listing yourself as the builder of the property improvements specified at the below address:

We are providing you with an Owner-Builder Acknowledgement form to make you aware of your responsibilities and possible risk you may incur by having this permit issued in your name as the Owner-Builder. We will not issue a building permit until you have read, initialed your understanding of each provision, signed, and returned this form to us at our official address:

County of Santa Cruz Planning Department 701 Ocean Street 4<sup>th</sup> Floor Santa Cruz, CA 95060

An agent of the owner cannot execute this notice.

The Owner-Builder Acknowledgement PLG220 to be completed and returned is on the opposite side of this notice.



# Owner-Builder Acknowledgement

Form **PLG-220** 

The preparer is legally responsible for signatures whether a graphic, typewritten, or handwritten. Documents may not be restricted by digital signatures or otherwise.

Owner-Builders	Applying for Construction Permits	Permit No
complete and su		of 2009. Before issuance of a building permit, the Property Owner must his form. Please read and initial each statement below to signify that you
1.	that erroneously implies that the property owner is pro may be held liable and subject to serious financial risk for	s to have the property owner obtain an "Owner-Builder" building permit viding his or her own labor and material personally. I, as an Owner-Builder, or any injuries sustained by an unlicensed person and his or her employees nice may not provide coverage for those injuries. I am willfully acting as an acce coverage for injuries to workers on my property.
2.	I understand building permits are not required to be sig and are not hiring a licensed Contractor to assume this	ned by property owners unless they are responsible for the construction responsibility.
3.		e party of record on the permit. I understand that I may protect myself from id having the permit filed in his or her name instead of my own.
4.	I understand Contractors are required by law to be licer and contracts.	sed and bonded in California and to list their license numbers on permits
5.		ns, other than California licensed Contractors, and the total value of my ding labor and materials, I may be considered an "employer" under state
6.		ate and federal law, I must register with the state and federal government, disability insurance, and contribute to unemployment compensation for by these laws may subject me to serious financial risk.
7.	cannot legally build them with the intent to offer them	Law, an Owner-Builder who builds single-family residential structures for sale, unless all work is performed by licensed subcontractors and the alendar year, or all of the work is performed under contract with a licensed
8.		or which this permit is issued, I may be held liable for any financial or that result from any latent construction defects in the workmanship or
9.	United States Small Business Administration, the Califor	ny obligations as an "employer" from the Internal Revenue Service, the nia Department of Benefit Payments, and the California Division of California Contractors' State License Board (CSLB) at 1-800-321-CSLB icensed contractors.
10.	I am aware of and consent to an Owner-Builder building and financially responsible for proposed construction ac	permit applied for in my name, and understand that I am the party legally tivity at the following address:
11.	I agree that, as the party legally and financially responsi and requirements that govern Owner-Builders as well a	ole for this proposed construction activity, I will abide by all applicable laws semployers.
12.	information I have provided on this form. Licensed cont with someone who does not have a license, the Contrac you may sustain as a result of a complaint. Your only reimportant for you to understand that if an unlicensed C your property, you may be held liable for damages. If you	artment immediately of any additions, deletions, or changes to any of the ractors are regulated by laws designed to protect the public. If you contract stors' State License Board may be unable to assist you with any financial loss medy against unlicensed Contractors may be in civil court. It is also entractor or employee of that individual or firm is injured while working on a obtain a permit as Owner-Builder and wish to hire Contractors, you will actors are properly licensed and the status of their workers' compensation
	ants for Commercial Building Permits online: AB3002 sign, date, and return to the agency responsible for issuing the	permit.

Signature:

Date: \_



# CENTRAL FIRE DISTRICT

of Santa Cruz County

## **COMMUNITY RISK REDUCTION DIVISION**

6934 Soquel Drive, Aptos CA 95003 (831) 685-6698

## **FIRE DISTRICT INVOICE**

DATE:	1/13/2022		
APN:		_ APP/PERMIT# _	APP-221000
NAME:			
ADDRES	S:		
RE: FIR	RE REVIEW – DUPLE	X STYLE TOWNHOME U	NITS 9 & 10
Send my r	eceipt via:		
⊠ EMAIL, T	O:		
⊠ MAIL, TO	):		
FIRE	DISTRICT FEES	\$ OTAL AMOUNT DUE	\$ 699.60
	nal \$75.00 late fee will 30 c	be added to the total if payndays of the invoice date.	
CASH OR CE	Mail payment to "	t to "Central Fire District" and Fire Prevention" at 6934 Soqu 1)685-6698 to schedule an app	el Drive, Aptos CA
Credit Card C	Online - Central Fire Distr www.centralfires		
	DEGE	IDT OFFICE HOE ON	

## RECEIPT – OFFICE USE ONLY

DATE PAID: 1/28/2022	CHECK #/CASH:	11783

## SANTA CRUZ COUNTY OFFICE OF EDUCATION

www.santacruzcoe.org

## CERTIFICATION OF PAYMENT OF DEVELOPER FEES

(Bonny Doon, Live Oak, Mountain, Pacific, Santa Cruz City, San Lorenzo Valley and Soquel School Districts)

\*\*Developments in the *Live Oak School District* MUST have a signature of a District representative in part III PRIOR to certification at the County Office of Education. Call Live Oak for more information.\*\*

PART I: To F Name:	Be Completed by Developer:	Daytime Telephone #:	
Mailing Address:		(3')	
7/-	(Street)	(St.	ate) (Zip) ■
Date:	/ 3022 Signature:		
PART II: To	Be Completed by Planning/Building D	epartment	
APN #:	Ap	plication #: 13 - 22/6	266
Job Address:			
Type of Constr	ruction: New [   Addition [ ]	City	Zip
M-1.11. TT.		Project Square Feet:	1,268
Mobile Home Commercial	[ ] Residential [ ] [ ] Religious [ ]	Credit for Removed: Sq. Ft. of Like Kind:	4
Conversion of		Sq. Ft. of Like Killa.	
		TOTAL ADJUSTED SQ. F	г.: <u>/, 268</u>
Senior Citizen	Project: Yes [ ] No [ (Civil Code S	ection 51.3 and Health/Safety Code 1	569.2)
I CERTIFY THA	AT ALL DOCUMENTS HAVE BEEN FILED	WITH THE PLANNING/BUILDI	NG DEPARTMENT.
-	sentative (Signature):	Date:	7-7-2022
Authorized Repres	sentative (Printed Name): Bob Collac	Agency: C	ounty Planning
PART III:	To Be Completed by Live Oak School		·×-
	Collection of Mitigation Fees (Mello-Roos)		7/2/22
Fees Collected by	School District Official: Signature:		Date: ////
	Printed Name:	MATSISSIS	
	To Be Completed by the County Offic	e of Education	[ ] Exempt: 500
	400 Encinal St., Santa Cruz, CA 95060 Telephone (831) 466-5600		Sq. Ft. or less
and to start of	Telephone (631) 400-3000		[ ] Senior Housing Rate
	The Live Oak		
	School District has received: \$	599.40 Check Number	er: <u>12094</u>
	From _	eovering the c	onstruction of
	1,2-68 Square feet d	Residential Commercia	al Construction.
		N N	
	Authorized Representative – Signature: Printed Name:	_	_ Date:

\*\*\*Form must be validated by Santa Cruz County Office of Education Seal\*\*\*

## SANTA CRUZ COUNTY OFFICE OF EDUCATION

www.santacruzcoe.org

## CERTIFICATION OF PAYMENT OF DEVELOPER FEES

(Bonny Doon, Live Oak, Mountain, Pacific, Santa Cruz City, San Lorenzo Valley and Soquel School Districts)

\*\*Developments in the *Live Oak School District* MUST have a signature of a District representative in part III PRIOR to certification at the County Office of Education. Call Live Oak for more information.\*\*

PART I: To Be Completed by Developer:  Name:	Daytime Telephone #:
Mailing Address: (Street)	
Date: $\frac{7/7/2022}{}$ Signature:	(City) (State) (Zip)
PART II: To Be Completed by Planning/Building Depart	ment
	ion#: B-221065
Job Address:	
Type of Construction: New [ ] Addition [ ]	City Zip
	roject Square Feet:
	q. Ft. of Like Kind:
Conversion of Existing Use [ ]	
Senior Citizen Project: Yes [ ] No [ (Civil Code Section	FAL ADJUSTED SQ. FT.:/, 26F 51.3 and Health/Safety Code 1569.2)
I CERTIFY THAT ALL DOCUMENTS HAVE BEEN FILED WITH	
Authorized Representative (Signature):  Authorized Representative (Printed Name):  Bob Collactive  PART III: To Be Completed by Live Ook School Districtive	Carrie Clarine
Transfer Representative (Timed Traine).	Agency: Courty / (422)
PART III: To Be Completed by Live Oak School Distriction of Mitigation Fees (Mello-Roos)	ict (If Applicable)
	9 1/1/22
Fees Collected by School District Official: Signature:  Printed Name:	Date: 17/62
PART IV: To Be Completed by the <u>County Office of E</u> 400 Encinal St., Santa Cruz, CA 95060	
Telephone (831) 466-5600	Sq. Ft. or less [ ] Senior Housing
	[ ] Semor Housing
	Rate
The Live Oak	Rate
School District has received: \$ 2,599.	
- DIVE OUR	
School District has received: \$ 2,599.	Check Number: 12094  Covering the construction of
School District has received: \$\(\frac{2}{599}\).  From  \[ \frac{1}{268} \]  Square feet of \(\frac{1}{1268}\)	Check Number: 12094  Covering the construction of  Commercial Construction.
School District has received: \$\(\frac{1}{2}\)/599.	Check Number: 12094  Covering the construction of

\*\*\*Form must be validated by Santa Cruz County Office of Education Seal\*\*\*

You have 90 days from date of payment of these fees to file a protest against the imposition of these fees. (Government Code Sec. 66020) Fees paid shall be used for the construction or reconstruction of school facilities.





# WATER SERVICE INFORMATION FORM

March 27, 2018

Owner:	
Site Address:	
Site APN:	
Project Description:	Development of a 12-unit affordable housing pro

Dear

Your project is located within the City of Santa Cruz Water Service area. The subject parcel is currently an undeveloped lot, with an existing water service, and is subject to the following conditions:

- 1. Fire service as required by Central Fire. Please complete a Fire Protection Requirements Form for each unit with Central Fire and submit completed form to SCWD prior to obtaining water permit. Central Fire phone number: (831) 479-6842.
- 2. A new 3/4" sized domestic by fire combination service is required to be installed to seperately serve each unit as per SCWD Detail 4A.
- 3. Water Conservation and Engineering to review irrigation/landscape plans to determine final irrigation water service requirements. The existing 3/4" service is estimated to become a dedicated irrigation serivce with a 3/4" Reduced Principle Backflow Prevention Assembly installed behind the water meter as per SCWD Detail 5 & 8.
- 4. When applying for a building permit, please provide a utility site plan with existing water main & service locations, types and sizes. Provide new water service locations, types and sizes with new domestic, irrigation and fire service backflow device type, size and locations. Provide call outs to new or existing services referencing SCWD standard details.
- 5. Please see attached customer handout, standard details and list of certified water service installation contractors which are required to perform water service work. All water permit fees are due and water service retrofit work to be completed for this project prior to signing off on the building permit final.

If you have any questions, please contact the Water Department Engineering Division at (831) 420-5210

Sincerely,

BJ Dericco City of Santa Cruz | Water Dept., Engineering 212 Locust Street, Suite C Santa Cruz, CA 95060

## **NEW WATER SERVICE -** Permiti Fee Estimatie

WTP18-0058						
Mtr Config	Use Type	Type/Size	Fee Description	Num of Units	Unit Cost	Sub Total
	MASTER WATER		BACKFLOW REVIEW	1	\$126.00	\$126.00
	PERMIT			PERMI	T FEE TOTALS:	\$126.00

RR18-0003						
Mtr Config	Use Type	Type/Size	Fee Description	Num of Units	Unit Cost	Sub Tota
	WIRR		LANDSCAPE/IRRIGATION PLAN REVIEW	1		\$126.00
			BACKFLOW DEVICE INSPECTION	1	\$126.00	\$126.00
				PERMI	T FEE TOTALS:	\$252.00

/IRU18-0022						
Mtr Config	Use Type	Type/Size	Fee Description	Num of Units	Unit Cost	Sub Total
	WMRU		INSTALLATION FEE - 3/4 IPERL METER	12	\$314.00	\$3,768.00
			C/D PLAN REVIEW RESIDENTIAL PER UNIT	12	\$63.00	\$756.00
			TAP FEE	12	\$189.00	\$2,268.00
			MRU DEV FEE (2017)	12	\$8,226.00	\$98,712.00
				PFRM	IT FEE TOTALS:	\$105.504.00

PERMIT FEE ESTIMATE**		TOTAL FEE
		\$105,882.00

<sup>\*\*</sup>SUBJECT TO CHANGE



# WATER DEPARTMENT Approved Water Service Installation Contractors List

**Santa Cruz Water Department** 

212 Locust Street, Suite C Santa Cruz, CA 95060 Phone 831-420-5210

Fax 831-420-5201

www.cityofsantacruz.com

COMPANY NAME	STATE LICENSE	ADDRESS	CITY	STATE	ZIP	OFFICE PH	FAX
Anderson Pacific Engineering Construction	#245215	1390 Norman Avenue	Santa Clara	CA	95054	408-970-9900	408-213-0532
Associated Plumbing	#577085	90 Leavesley Road	Gilroy	CA	95020	408-847-4406	408-847-1640
Bindel Bros. Grading & Backhoe Services, Inc.	#668920	1104 Madison Lane	Salinas	CA	93907	831-754-1490	831-754-1491
Coast Pipline	#355201	1405 Day Valley Road	Aptos	CA	95003	831-688-6255	831-688-3617
Don Chapin Company, Inc.	#406512	560 Crazy Horse Canyon Road	Salinas	CA	93907	831-449-4273	831-449-0700
Durden Construction, Inc.	#523203	PO Box 966	San Juan Bautista	CA	95045	831-623-1200	831-623-1201
E&S Trucking Company	#713788	1770 El Rancho Drive	Santa Cruz	CA	95060	831-438-7940	831-438-8000
Earthworks	#807689	310A Kennedy Drive	Capitola	CA	95010	831-475-1223	831-475-1173
George H. Wilson, Inc.	#128655	PO Box 1140	Santa Cruz	CA	95061	831-423-9522	831-423-9903
Granite Construction	#89	PO Box 720	Watsonville	CA	95077	831-763-6100	831-761-1042
Graniterock Company	#22	120 Granite Rock Way	San Jose	CA	95136	408-574-1400	408-365-8349
Johnson & Company	#794964	600 Calabasas Road	Watsonville	CA	95076	831-722-8452	
Lindex Excavating	#654201	2725B S. Rodeo Gulch Road	Soquel	CA	95073	831-462-5519	831-462-5519
Sanco Pipeline, Inc.	#160382	727 University Avenue	Los Gatos	CA	95032	408-377-2793	408-354-7599
Santa Cruz Underground Paving	#863687	PO Box 699	Aptos	CA	95001	831-688-1382	831-722-3127

Revised March 2018



#### WATER DEPARTMENT

212 Locust Street, Suite C, Santa Cruz, CA 95060 • Ph: 831-420-5210

## New/Existing Combination Domestic and Fire Service for Residential Construction Projects

The City of Santa Cruz Water Department (SCWD) requires a single, small diameter water service to serve domestic demands and a residential fire sprinkler system. Where applicable, domestic and fire water will be provided from a single service as shown by Detail 4A. The following information is provided as a guideline for an applicant seeking water service for a new building or a remodel.

Planning for your water service:

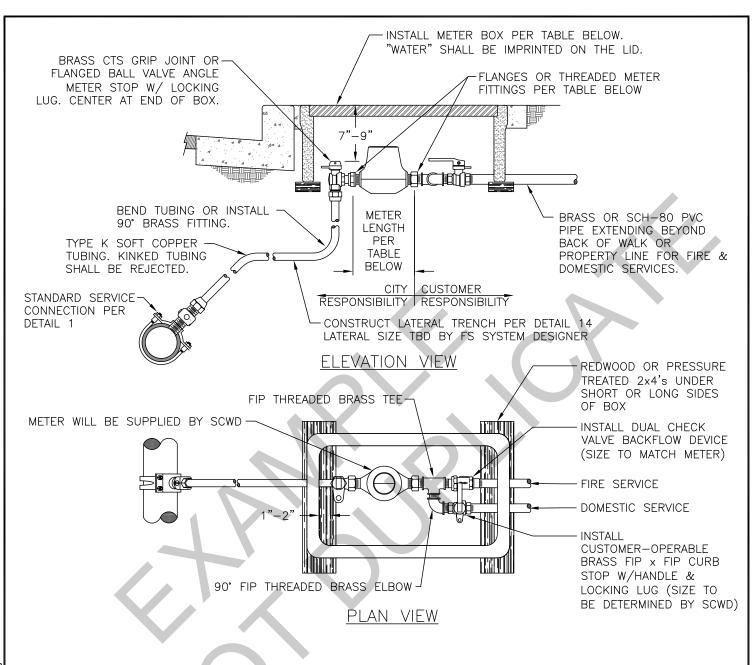
- You must provide SCWD with a completed and signed "Fire Protection Requirements Form" (attached). The form must state the service size that your fire sprinkler system design professional and fire agency has determined to be adequate for your system.
- You must provide SCWD with plans that show all existing and proposed plumbing fixtures. SCWD will determine the size of the service required to meet your domestic water demand and ensure accurate meter operation. The actual size of the water service will be determined by SCWD. The size will typically be the larger of that required for fire protection, or domestic use.

### Installing your water service:

- Once the size of the service is finalized, SCWD will determine fees that you will be required to pay. You must pay all of the fees before SCWD will issue a permit to your approved SCWD contractor to install a new service, or retrofit an existing service.
- When installation is complete, your contractor must contact SCWD for a final inspection of the installation. Inspections must be scheduled at least 2 working days in advance.
- Once final inspection is completed, SCWD will supply and install the water meter, and turn on the service. If inside the City limits, the building permit can then be provided with a final clearance by SCWD.

If you have any questions regarding our procedures, or your particular project, please call the SCWD Engineering Division at 831-420-5210.





METER SIZE AND TYPE DETERMINED BY FS SYSTEM DESIGNER	BOX TYPE	METER LENGTH
34" THREADED 1" THREADED 1½" FLANGED	"16" "36" "36"	7¾" 11" 13"

BOX	TYPE							TRAFFIC									
TYPE	"16"	CHRISTY	B16	BOX	W/	N16R	LID	OR	EQUAL	CHRISTY	B1324	BOX	W/	B1324-51JH	LID	OR	EQUAL
TYPE	"36"	CHRISTY	N36	BOX	W/	FL36D	LID	OR	EQUAL	CHRISTY	B1730	BOX	W/	B1730-51JH	LID	OR	EQUAL

## NOTES

- 1. BRASS FITTINGS, VALVES AND PIPE SHALL CONSIST OF LOW-LEAD BRASS ALLOY AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI.
- 2. FIRE SERVICE LINE SHALL BE TESTED FOR LEAKS PRIOR TO BACKFILLING.
- CUSTOMER SIDE FIRE SERVICE PIPE TYPE AND CONNECTION SHALL MEET LOCAL FIRE AGENCY REQUIREMENTS.



WATER DEPARTMENT CITY OF SANTA CRUZ, CALIFORNIA

> DETAIL 4A

DOMESTIC BY FIRE COMBINATION SERVICE INSTALLATION

NOT TO SCALE

RCE 37391

Budi R Luckentach **APPROVED** 

#### NOTES

- 1. BRASS FITTINGS, VALVES AND PIPE SHALL CONSIST OF LOW-LEAD BRASS ALLOY AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI.
- 2. METER WILL BE FURNISHED AND INSTALLED BY CITY FORCES
- 3. A BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED PER DETAIL 8 IF REQUIRED BY THE ENGINEER.



## WATER DEPARTMENT

CITY OF SANTA CRUZ, CALIFORNIA

## DETAIL 5

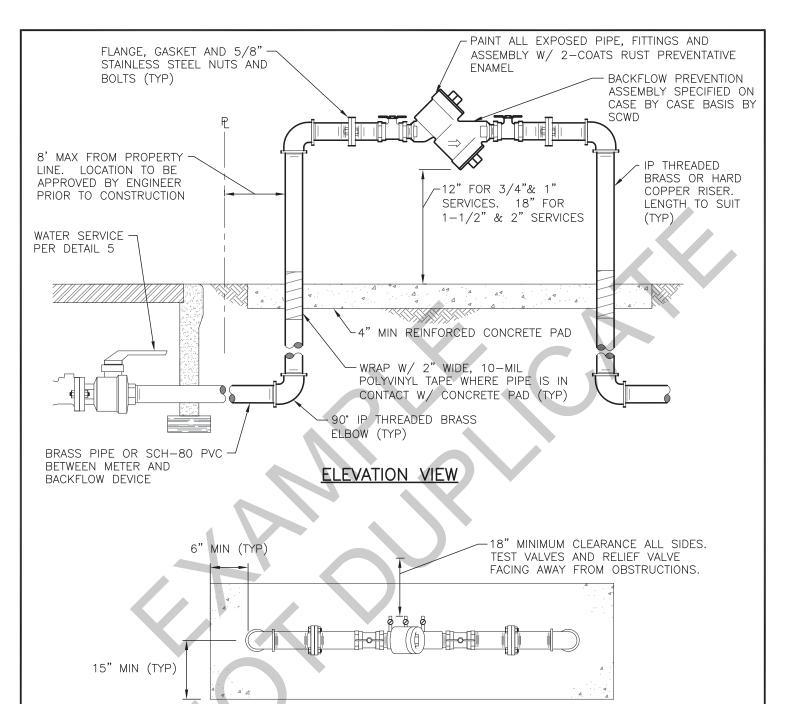
2-INCH AND SMALLER SERVICE INSTALLATION

NOT TO SCALE

APPROVED SINETESSMOOT

RCE 37391





## PLAN VIEW

LENGTH OF PAD VARIES WITH SIZE OF ASSEMBLY

### NOTES

- APPROVED BACKFLOW ASSEMBLY SHALL BE INSTALLED SUCH THAT IT IS READILY ACCESSIBLE FOR REPAIR AND INSPECTION.
- BRASS FITTINGS, VALVES AND PIPE SHALL CONSIST OF LOW-LEAD BRASS ALLOY AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI.
- BRASS OR PLASTIC PLUGS SHALL BE INSTALLED ON ALL TEST PORTS.
- 4. ALL ABOVE GROUND PIPE, FITTINGS AND ASSEMBLY SHOULD BE PAINTED WITH TWO COATS OF ENAMEL.
- 5. AN ENCLOSURE OR CAGE MAY BE INSTALLED AT THE OPTION OF THE PROPERTY OWNER.



## WATER DEPARTMENT

CITY OF SANTA CRUZ, CALIFORNIA

## DETAIL 8

2-INCH AND SMALLER BACKFLOW PREVENTION ASSEMBLY INSTALLATION

NOT TO SCALE

APPROVED Senetellmone

RCE 37391

# EXAMPLE OF APPROVED 2" & SMALLER REDUCED PRESSURE BACKFLOW DEVICE INSTALLATIONS





# CITY OF SANTA CRUZ WATER DEPARTMENT APPROVED BACKFLOW PREVENTION ASSEMBLIES FOR SERVICE ISOLATION

	APPROV	ED NO-	LEAD	REDUC	ED PRI	SSUR	E PRIN	CIPLE D	EVICE	S		
						SIZ	E (INCH	IES)				
COMPANY	MODEL	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8	10
	4000SS						Α	Α	Α	Α		
AMES	Colt 400						Α	Α	Α	Α	Α	Α
	Maxim 400						Α	Α	Α	Α	Α	Α
	760						Α	Α	Α	Α	Α	Α
	LF825Y	Α	Α		Α	Α						
FEBCO	LF825YA	Av	Av		Av	Av						
	LF860	Α	Α	Α	Α	Α						
	375						Α	Α	Α	Α	Α	Α
	375A						Α	Α	Α	Α	Α	Α
	375MS						Α	Α	Α	Α	Α	Α
WILKINS	475						vΑ	vΑ	vΑ	vΑ	vΑ	vΑ
WILKING	475MS						vΑ	vΑ	vA	vΑ	vΑ	Α
	475V						vΑ	vA	νA	vΑ	vΑ	vΑ
	475VMS						vΑ	vA	vA	vΑ	vΑ	Α
	975XL2	Α	Α	Α	Α	Α						
	957						Av	Av	Av	Av	Av	Av
	LF009						Α	Α				
	LF009M2QT		Α	Α	Α	Α						
	LF009M3QT	Α										
	LF909						Α	Α				
WATTS	LF909QT	Α	Α									
	LF909M1QT			Α	Α	Α						
	LF919QT	vA	vA	vA	vA	vA						
	LF919ZQT	vAv	vAv	vAv	vAv	vAv						
	LF919AQT	vA	vA	vA	vA	vA						
	LFU919QT	Α	Α	Α	Α							

A signifies that these models are approved backflow prevention assemblies for horizontal installations only.

Av signifies that these models are approved for both horizontal and vertical up installations.

vAv signifies that these models are approved only for vertical up inlet/vertical up outlet configurations.

vA signifies that these models are approved only for vertical up inlet/vertical down outlet configurations.

Az signifies that these models are approved only for N and Z configurations.



212 Locust Street, Suite C, Santa Cruz, CA 95060 • (831) 420-5200 • Fax (831) 420-5201

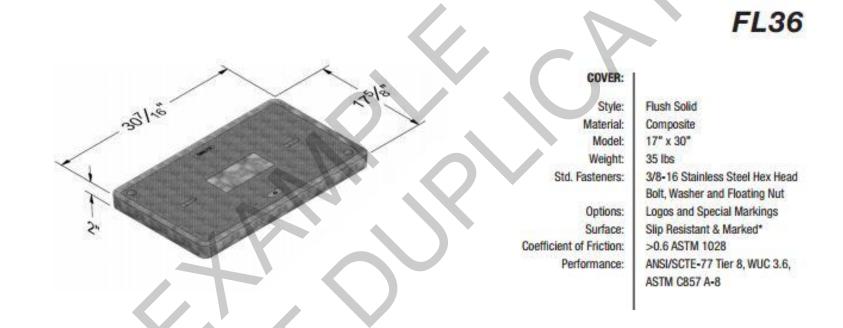
## FIRE PROTECTION REQUIREMENTS FORM FOR RESIDENTIAL

To be completed and returned to the Santa Cruz Water Department by the appropriate Fire Protection District for all building permit application submittals. Please provide Fire Dept approved plans for all new fire hydrants and commercial sprinkler systems.

APPL	ICANT INFORMATION-To be completed by Applicant
Name: _	Êmail:
Mailing Address:	
Phone No.: _	Fax No.:
Owner's Agent/Representative (if ap	pplicable): _ Phone No:
Property Address/Location:	
Assessors Parcel Number:	Building Permit Application Number:
Proposed Land Use: (check one)	☐ Commercial ☐ Single-Family ☐ Multi-Residential
	☐ MLD (less than 4 units)
FIRE PROTECT	ION DISTRICT INFORMATION-To be completed by Fire District
The Fire District requires the follo	wing improvements to be made by the owner as a condition for project acceptance:
COMBINATION FIRE X DOME.	STIC SERVICE AS PER DETAIL 4A (3/4" or 1"):
☐ 2" FIRE SERVICE INSTALLATI	ON AS PER DETAIL 4:
FIRE HYDRANT (Quantity, Loca	tion(s)):
COMMENTS:	
Signed	
Title	

# Electric & Communications





FOR USE ON 1" THROUGH 2" FIRE x DOMESTIC COMBINATION WATER SERVICES

REQUIRING B36 BOXES AS PER SCWD DETAIL 4A

(NOT FOR USE FOR TRAFFIC RATED BOXES)

# iPERL™ Water Management System Fire Service

Electromagnetic Flow Measurement System

## **Description**

UL Listed 3/4" (DN 20mm) and 1" (DN 25mm) Sizes

With no moving parts, the Sensus iPERL water management system is based on innovative electromagnetic flow measurement technology. The iPERL system family has an operating range of 0.03 gpm (0.007  $\text{m}^3/\text{hr}$ ) @ 95% minimum to 55 gpm (12.5  $\text{m}^3/\text{hr}$ ) @ 100% ± 1.5% registration of actual throughput.



## **Features**

#### **CONFORMANCE TO STANDARDS**

The iPERL system far exceeds the most recent revision of ANSI/AWWA Standard C-700 and C-710 for accuracy and pressure loss requirements. All iPERL systems are NSF/ANSI Standard 61 Annex F and G compliant and tested to AWWA standards. The iPERL meter is UL (Underwriters Laboratories) Listed and approved for use on fire protection and domestic water applications.

#### **PERFORMANCE**

The patented measurement technology of the iPERL system allows enhanced accuracy ranges at both low and high flows and perpetual accuracy over the life of the product over the full measurement range when installed horizontal, vertical or diagonal.

#### CONSTRUCTION

The iPERL system is an integrated unit that incorporates an electronic register and measuring device encased in an external housing. The measuring device is comprised of a composite alloy flowtube with externally-threaded spud ends. Embedded in the flowtube are magnetic flow sensors. The all electronic, programmable register is hermetically sealed with a tempered glass cover. The iPERL system has a 20 year life cycle, along with a 20 year battery life guarantee.

## **ELECTRONIC REGISTER**

The high resolution 9-digit hermetically sealed electronic register with LCD display was designed to eliminate dirt, lens fogging issues and moisture contamination in pit settings with built in tamper protection. The tempered glass register cover displays readings with the AMR digits highlighted. Direction of flow and units of measure are also easily readable on the register display. The iPERL register features; AMR resolution and unit of measure that are fully programmable, integral customer data logging compatible with UniPro software tools. The large, easy to read display also includes battery life, empty pipe and forward/reverse flow indicators.

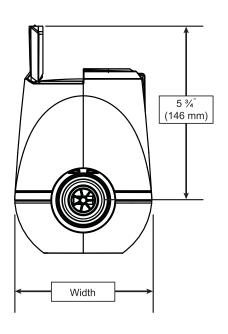
#### **TAMPERPROOF FEATURES**

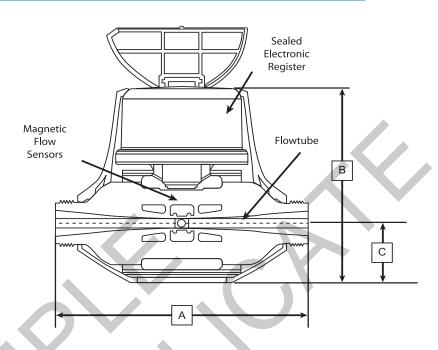
The integrated construction of the iPERL system prevents removal of the register to obtain free water. The magnetic tamper and low field alarms will both indicate any attempt to tamper with the magnetic field of the iPERL system.

## **AMR / AMI SYSTEMS**

The iPERL systems are compatible with current Sensus AMR/AMI systems.







## **DIMENSIONS AND NET WEIGHTS**

Size	A (lay length)	В	С	Spud Ends	NPSM Thread Size	Width	Net Weight
3/4"S	7-1/2"	6-1/10"	1-3/4"	3/4"	1"	4-1/2"	3.1 lb.
(DN 20 mm)	(190 mm)	(155 mm)	(44 mm)	(20 mm)	(25 mm)	(114 mm)	(1.4 kg)
3/4"	9"	6-1/10"	1-3/4"	3/4"	1"	4-1/2"	3.2 lb.
(DN 20 mm)	(229 mm)	(155 mm)	(44 mm)	(20 mm)	(25 mm)	(114 mm)	(1.5 kg)
1"	10-3/4"	6-1/10"	1-3/4"	1"	1-1/4"	4-1/2"	3.3 lb.
(DN 25 mm)	(273 mm)	(155 mm)	(44 mm)	(25 mm)	(32 mm)	(114 mm)	(1.6 kg)

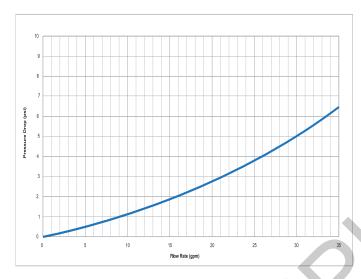
## **SPECIFICATIONS**

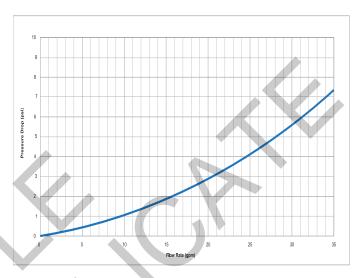
SERVICE	Measurement of potable and reclaim water.  Operating temperature range of 33 °F (0.56 °C) - 150 °F (65.6 °C)
NORMAL OPERATING FLOW RANGE (100%±1.5%)	3/4" (DN 20mm) size: 0.11 to 35 gpm (0.02 to 8.0 m³/hr) 1" (DN 25mm) size: 0.4 to 55 gpm (0.09 to 12.5 m³/hr)
LOW FLOW REGISTRATION (95% - 101.5%)	3/4" (DN 20mm) size: 0,03 gpm (0.007 m³h) 1" (DN 25mm) size: 0.11 gpm (0.025 m³h)
MAXIMUM PRESSURE LOSS	3/4" (DN 20mm) size: 2 psi at 15 gpm (0.1 bar at 3.4 m³h) 1" (DN 25mm) size: 2 psi at 25 gpm (0.1 bar at 5.7 m³h)
MAXIMUM OPERATING PRESSURE	175 psi (12.1bar)
MEASUREMENT TECHNOLOGY	Solid state electromagnetic flow

REGISTER	Hermetically sealed, 9-digit programmable electronic register AMR/AMI compatible iPERL system register programmable using the UniPro programming package
MATERIALS	External housing – Thermal plastic Flowtube – Polyphenylene sulfide alloy Electrode – Silver/silver chloride Register cover – Tempered glass
ALARM DEFAULTS	Alarm Duration – 90 days Leak Duration – 24 hours Datalog Interval – 1 hour Alarm Mask – All alarms reported History Mask – All event types reported



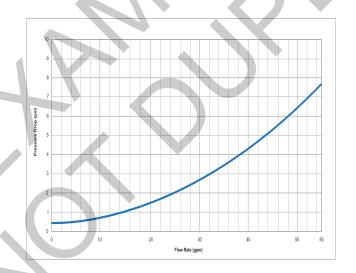
## **HEADLOSS CURVES**





3/4" Short Headloss Curve

3/4" Headloss Curve



1" Headloss Curve

Copyright © 2010 Sensus.

iPERL is a trademark of Sensus USA Inc.

Technology for the iPERL system is licensed from Sentec Limited.





# **Model 700**

## **Dual Check Valve**

## **Application**

Designed for installation on water lines to protect against both backsiphonage and backpressure of polluted water into the potable water supply. The Model 700 shall provide protection where a potential health hazard does not exist.

## **Standards Compliance**

- ASSE® Listed 1024
- CSA® Certified



Main valve body
Elastomers

Polymers

Cast Bronze ASTM B 584

Buna Nitrile (FDA approved)

Noryl ®, NSF Listed (1/4"-1/2")

Delrin ®, NSF Listed (3/4"-1")

Springs Stainless Steel, 300 Series



## **Options**

(Suffixes can be combined)

with female NPT connection (standard)
 C - with female copper sweat connection
 FMTC - with female meter thread connection

M - with male NPT connection

MMTC - with male meter thread connection

CH - with chrome finish (1/4", 3/8" & 1/2" sizes)

#### **Features**

Sizes: 1/4", 3/8", 1/2", 3/4", 1", 1-1/4"

Max. pressure: 175 PSI Max. temp: 180°F

Connections: Threaded ANSI B 1.20.1

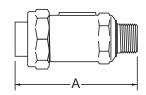
Copper sweat ANSI B 16.22 Meter thread ANSI B 1.20.7

## **Accessories**

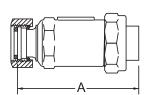
Repair kit (RK14-700 and RK34-700)
Thermal expansion tank (Model XT)

## Dimensions & Weights (do not include pkg.)

MOE	EL	DIMENSIONS		WEIGHT			
SIZ	Έ	А		В		VV	
in.	mm	in.	mm	in.	mm	lbs.	kg
1/4	6	3 3/16	81	1 3/4	45	1	0.5
3/8	9	3 3/16	81	1 3/4	45	1	0.5
1/2	15	3 3/16	81	1 3/4	45	1	0.5
3/4	20	4 1/2	114	2	51	2	0.9
1	25	4 1/2	114	2	51	2	0.9
1 1/4	32	4 3/4	121	2	51	2	0.9







# **Model 700 • Connections Legend**

U = Indicates location of "union" connection

FNPT = Female National Pipe Tapered Thread MNPT = Male National Pipe Tapered Thread

FC = Female Copper Sweat

FMTC = Female Meter Thread Connection (National

Hose Straight Thread)

MMTC = Male Meter Thread Connection (National Hose

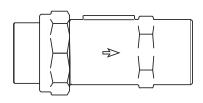
Straight Thread)

Meter Thread Connections

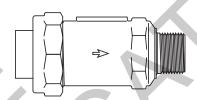
When ordering a Model 700 with meter thread connections, order the connection one size larger than the water meter. For example, if your water meter is 1/2" or 5/8" your connection size would be a 3/4" meter thread. If the water meter is 5/8" x 3/4" or 3/4", your connection size would be 1" meter thread.

# Configurations

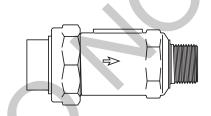
## All Configurations Are Reversible



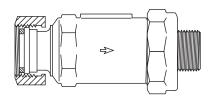
FEMALE UNION INLET X FEMALE OUTLET				
INLET (UNION)	OUTLET	PART NUMBER		
3/4" FNPT	3/4" FNPT	34UFX34F-700		
3/4" FMTC	3/4" FNPT	34UFMX34F-700		
1" FNPT	1" FNPT	1UFX1F-700		
1" FNPT	3/4" FNPT	1UFX34F-700		
1" FMTC	1" FNPT	1UFMX1F-700		
1" FMTC	3/4" FNPT	1UFMX34F-700		



FEMALE UNION INLET X MALE OUTLET				
INLET (UNION)	OUTLET	PART NUMBER		
3/4" FNPT	3/4" MNPT	34UFX34M-700		
3/4" FNPT	3/4" MMTC	34UFX34MM-700		
3/4" FMTC	3/4" MNPT	34UFMX34M-700		
3/4" FMTC	3/4" MMTC	34UFMX34MM-700		
3/4" FNPT	1" MMTC	34UFX1MM-700		
3/4" FMTC	1" MNPT	34UFMX1M-700		
1" FNPT	1" MNPT	1UFX1M-700		
1" FNPT	1" MMTC	1UFX1MM-700		
1" FMTC	1" MNPT	1UFMX1M-700		
1" FMTC	1" MMTC	1UFMX1MM-700		
1" FNPT	3/4" MNPT	1UFX34M-700		
1" FNPT	3/4" MMTC	1UFX34MM-700		
1" FMTC	3/4" MNPT	1UFMX34M-700		
1" FMTC	3/4" MMTC	1UFMX34MM-700		



FEMALE UNION "COPPER SWEAT" INLET X MALE				
INLET (UNION)	OUTLET	PART NUMBER		
3/4" FC	3/4" MNPT	34UFCX34M-700		
3/4" FC	1" MNPT	34UFCX1M-700		
1" FC	1" MNPT	1UFCX1M-700		



FEMALE "METER" UNION INLET X MALE UNION				
INLET (UNION) OUTLET (UNION) PART NUMBER				
1" FMTC	1" MNPT	1UFMX1UM-700		
1-1/4" FMTC	1" FNPT	114UFMX1UF-700		

In Canada | Zurn Industries Limited

<sup>3544</sup> Nashua Drive, Mississauga, Ontario L4V 1L2 Ph. 905-405-8272, Fax 905-405-1292

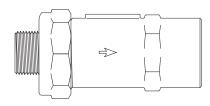
# Model 700 • How to Order

The Model 700 is available in a variety of inlet and outlet sizes, thread types and connection types. Simply determine the inlet and outlet connection as well as the location of the union, then, select from the available configurations. The inlet connection will always be specified first in the model number. A union inlet connection with integral body outlet connection is standard. For connections other than shown below, such as BSP threads, contact your local ZURN WILKINS representative or factory.

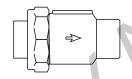
Example: A dual check valve is to be located on the outlet side of a 3/4" water meter with male inlet and outlet connections (see "Meter Thread Connections" on previous page). The union will be located on the inlet side of the valve. The outlet requires a 1" female NPT connection.

<u>Inlet</u>	<u>Outlet</u>	Model No.
1UFM	1F	1UFMX1F-700

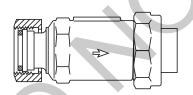
# **Configurations (cont.)**



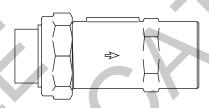
MALE UNION INLET X FEMALE OUTLET				
INLET (UNION) OUTLET PART NUMBER				
1" MNPT	1" FNPT	1UMX1F-700		



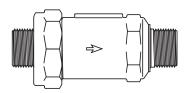
FEMALE UNION INLET X FEMALE OUTLET				
INLET (UNION)	OUTLET	PART NUMBER		
1/4" FNPT	1/4" FNPT	14UFX14F-700		
3/8" FNPT	3/8" FNPT	38UFX38F-700		
1/2" FNPT	1/2" FNPT	12UFX12F-700		
1/2" FC	1/2" FC	12UFCX12FC-700		



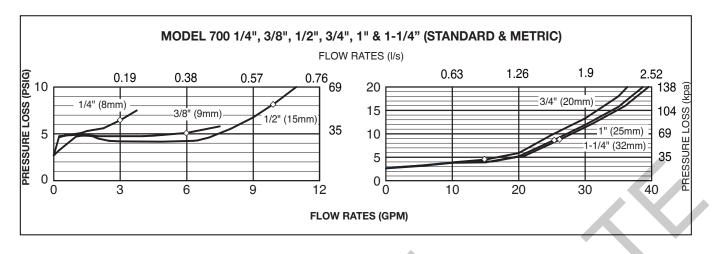
FEMALE "METER UNION INLET X FEMALE UNION				
INLET (UNION) OUTLET (UNION) PART NUMB				
1" FMTC	3/4" FNPT	1UFMX34UF-700		
1" FMTC	1" FNPT	1UFMX1UF-700		
1" FMTC	1" FMTC	1UFMX1UFM-700		
1 1/4" FMTC	1" FNPT	114UFMX1UF-700		



FEMALE UNION "COPPER SWEAT" INLET X FEMALE				
INLET (UNION)	OUTLET	PART NUMBER		
3/4" FC	3/4" FNPT	34UFCX34F-700		
3/4" FC	1" FNPT	34UFCX1F-700		
1" FC	1" FNPT	1UFCX1F-700		
1" FC	3/4" FNPT	1UFCX34F-700		



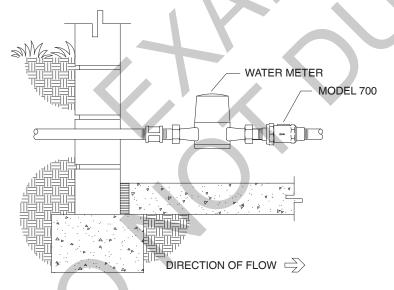
MALE UNION INLET X MALE OUTLET				
INLET (UNION) OUTLET PART NUMBER				
1" MNPT	1" MNPT	1UMX1M-700		

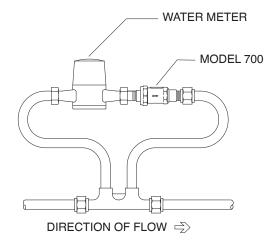


## **Typical Installation**

Local codes shall govern installation requirements. Unless otherwise specified, the installation shall be in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code. The installation shall be made so that no part of the unit can be submerged.

Capacity thru Schedule 40 Pipe				
Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
1/8"	1	1	2	3
1/4"	2	2	3	5
3/8"	3	4	6	9
1/2"	5	7	9	14
3/4"	8	12	17	25
1"	13	20	27	40
1 1/4"	23	35	47	70
1 1/2"	32	48	63	95
2"	52	78	105	167





INDOOR INSTALLATION

**METER SETTER INSTALLATION** 

## **Specifications**

The Dual Check Valve Backflow Preventer shall be ASSE® Listed 1024. The main body shall be cast bronze (ASTM B 584), the check assemblies shall be NORYL® (1/4"-1/2") or DELRIN® (3/4"-1"). The seal ring and orings shall be Buna Nitrile. The Dual Check Valve shall be a ZURN WILKINS Model 700.

1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766

In Canada | Zurn Industries Limited

3544 Nashua Drive, Mississauga, Ontario L4V 1L2 Ph. 905-405-8272, Fax 905-405-1292