

A. GENERAL

IN ADDITION TO THESE REQUIREMENTS, ALL POTABLE WATER MAINS ARE TO BE CONSTRUCTED IN A MANNER THAT THE SEWERS, SANITARY SEWERS OR FORCE MAINS SHALL NOT BE IN CONTACT WITH THE CIRCUMFERENTIAL PROVISIONS OF FLORIDA ADMINISTRATIVE CODE CHAPTER 62-555, "ARTIFICIAL LAKES—UPPER MISSISSIPPI RIVER BOARD OF STATE SANITARY ENGINEERS (GLUMRB) "RECOMMENDED STANDARDS FOR WATER WORKS", AND GLUMRB "RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES".

B. DEFINITIONS

FOR THE PURPOSES OF THIS SPECIFICATION, THE WORDS "OTHER PIPE" OR "OTHER STRUCTURE" SHALL MEAN SANITARY SEWER MAIN, SEWAGE FORCE MAIN, STORMWATER MAIN OR ANY COMBINATION THEREOF.

C. CROSS CONNECTIONS PROHIBITED

THERE SHALL BE NO PHYSICAL CONNECTIONS BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SUPPLY SYSTEM AND ANY OTHER PIPE OR APPURTENANCE THAT COULD CAUSE THE PASSAGE OF ANY OTHER WATER, WASTEWATER, POLLUTED WATER, OR ANY OTHER WATER INTO THE POTABLE SUPPLY. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE OR STORMWATER MANHOLE.

D. RELATION OF OTHER PIPE TO POTABLE WATER MAINS

1. HORIZONTAL SEPARATION

A. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM WATER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING REUSE WATER NOT REGULATED UNDER PART III OF CHAPTER 62-G10.F.A.C.

B. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET AND NO LESS THAN ONE FOOT BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

C. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING REUSE WATER NOT REGULATED UNDER PART III OF CHAPTER 62-G10.F.A.C.

D. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY TYPE SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER IS LAID LESS THAN SIX INCHES ABOVE THE TOP OF THE SEWER.

D. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE PARTS OF THE OTHER PIPE PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM".

2. VERTICAL SEPARATION

A. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY-OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID TO PROVIDE THE OUTSIDE OF THE MAIN IS AT LEAST SIX INCHES ABOVE AND PREFERABLY 12 INCHES ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

B. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PRESSURE CONVEYING WATER MAIN SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

C. AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE LAYED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING REUSE WATER REGULATED UNDER PART III OF CHAPTER 62-600, F.A.C. AT LEAST 5 FEET FROM ALL JOINTS IN GRAVITY-OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING SEWAGE OR WASTEWATER REGULATED UNDER PART III OF CHAPTER 62-600, F.A.C.

WHERE THE HORIZONTAL CAN BE LOCATED LESS THAT THE REQUIRED MINIMUM DISTANCES FROM JOINTS IN THE OTHER PIPELINE OR THE HORIZONTAL IS LESS THAT THREE FEET FROM ANOTHER PIPELINE OR THE UNDERGROUND WATER MAIN IS CLOSER TO ANOTHER PIPELINE THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR REVISIONS TO THE DESIGN. THE ENGINEER IS THE DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS PER CHAPTER 62-555, F.A.C.

## PROTECTION OF POTABLE WATER SUPPLY NOTES

ENGINEERING STANDARDS 2018			
REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	UNDERGROUND VALVE IDENTIFICATION MARKER
BY	DATE		
S.S.	JUNE 2005		
T.W.	11-2007		
T.W.	02-2008		
S.S.	1-24-12	SCALE: N.T.S.	DATE: FEB. 1998 DWG. NO. 115-1

ENGINEERING		STANDARDS 2018	
REVISIONS		MIN. HORIZONTAL SEPARATION FOR POTABLE WATER	
BY	DATE		
S.S.	01/12	DATE: JAN. 2012 DWG. NO. 121-1	
ENGINEERING DIVISION CITY OF POMPANO BEACH			
SCALE: N.T.S.			

ENGINEERING STANDARDS 2018			
REVISONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	UTILITY CROSSINGS
BY	DATE		
S.S.	01/12		
SCALE: N.T.S.			DATE: JAN. 2012 DWG. NO. <b>122-1</b>

ENGINEERING STANDARDS 2014			
REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	POTABLE WATER SUPPLY NOTES
BY	DATE		
S.S.	01/12		
SCALE: N.T.S.			DATE: JAN. 2012 DWG. NO. <b>122-2</b>

ENGINEERING STANDARDS 2014			
REVISIONS BY DATE S.S. 01/12		ENGINEERING DIVISION CITY OF POMPANO BEACH	POTABLE WATER SUPPLY NOTES
		SCALE: N.T.S.	DATE: JAN. 2012 DWG. NO. <b>122-3</b>

<b>BROWARD COUNTY</b> <b>PUBLIC WORKS DEPARTMENT</b>	<b>WATER &amp; WASTEWATER SERVICES</b> ENGINEERING DEPARTMENT 4000 WEST GORDON ROAD FORTLAUDERDALE, FL 33409 PHONE 954-661-0746 FAX 954-661-0265	<h1 style="margin: 0;">STANDARD DETAIL</h1>
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**PLAN**

**PROFILE**

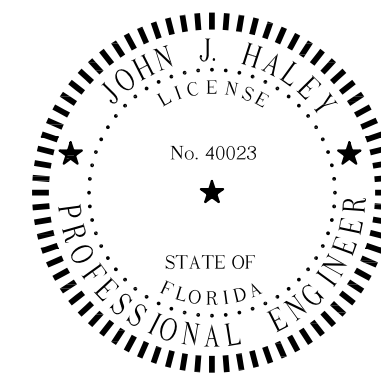
1. THE DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE PRIVATELY OWNED BY PROPERTY OWNER. WWS WILL ONLY MAINTAIN THE BYPASS METER.
2. FIRE SYSTEM TO BE CONSTRUCTED/TESTED IN ACCORDANCE WITH NFPA STDS. & ALL APPLICABLE CODES.
3. 1" VENT PIPE TO BE REMOVED AFTER WWS APPROVAL.
4. INTEGRAL BYPASS METER MUST COME WITH A RED REGISTER CAP METER.
5. PROVIDE RED POLYURETHANE COATING.

**DEDICATED FIRE SYSTEM**

REPLACES FORMER DWG NO. 9A	<b>TYPE 1</b> <b>PRIVATE FIRE PROTECTION</b> <b>4", 6" AND 8" DIAMETER CONNECTION</b>	<b>FIGURE</b> <span style="font-size: 2em; font-weight: bold;">235</span>
REVISED 5/14/2008		

Received after DRC Meeting  
to address DRC comments  
prior to the submission of a  
Building Permit Application.  
1/27/2022

John J. Haley, P.E., State of Florida, Professional Engineer, License No. 40023  
This item has been digitally signed and sealed by John J. Haley, P.E. on 1-25-22  
Printed copies of this document are not considered signed and sealed and the signature  
must be verified on any electronic copies.



Designed J.J.H.  
 Drawn E.L.H.  
 Checked J.J.H.

NO.	DATE	REVISION	BY

**HALEY ENGINEERING, INC.**  
CIVIL ENGINEERING SERVICES.  
1680 SE 4th Street – Deerfield Beach, Fla. 33441  
Phone: (954) 260-6194  
Email: [johnjhaley@comcast.net](mailto:johnjhaley@comcast.net)  
F.B.P.E. Authorization No. 9463

**117 S. RIVERSIDE DR. TOWNHOMES  
POMPANO BEACH, FLORIDA**

## WATER DETAILS

**John J. Haley**  
 ADORNED:  
 Digitally signed by John J. Haley  
 Date: 2022.01.2  
 DATE:  
 05:45:29 -05'00'  
 JOHN J. HALEY, P.E.  
 REGISTERED ENGINEER NO. 40023  
 STATE OF FLORIDA

SCALE

PROJECT  
NUMBER

4A

N.T.S.

18-2440

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