

Memo

To: Fircrest City Council
From: Jerry Wakefield, Public Works Director
Date: November 14, 2017
Re: Weathervane Water Main Break

On Wednesday, Nov. 8, the 6-inch AC water main along Weathervane between 44th and Weathervane Court developed a substantial leak. The problem was found to be a break in the water main underneath a large Fir tree. The immediate solution was to cut the broken pipe and cap it at each end on either side of the tree. That was done and water service was restored to the area. However, this means there is no loop to the system and limited fire flow available. Also, the exiting main is 50+ years old and the alignment is such that the main is under other trees, which may cause the same problem. Pipe bursting of this main would not solve this due to the trees and roots. (See attached photos).

Our recommended solution is to replace that section of water main with new PVC piping and move the alignment into the roadway as it is in the other sections of the Weathervane development. This involves installing approximately 420-feet of new 6-inch main, two hydrants, and reconnecting 7 services. We also need to remove the tree that is over the existing water main as some roots were damaged and the property owner has agreed to remove it to prevent any further damage. (See attached photo).

We anticipate to purchase the materials for this work and then hire a contractor to complete the work. Preliminary estimates is about \$15,000 for materials, \$12,000 for labor, \$20,000 for half street overlay for restoration, and \$2,000 for tree removal. The total preliminary cost is \$49,000.

We are asking Council's approval to do this emergency repair work and move the main out in the street and use the capital fund account to pay for the work.

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**CITY OF FIRCREST
RESOLUTION NO. ____**

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF FIRCREST, WASHINGTON, DECLARING AN EMERGENCY RELATING TO THE REPAIR AND REPLACEMENT OF THE WATER MAIN LOCATED ALONG WEATHERVANE AVENUE BETWEEN 44TH STREET AND WEATHERVANE COURT AND WAIVING THE PUBLIC BIDDING REQUIREMENTS OF RCW 39.04.280 TO PERFORM THE WATER MAIN RELOCATION WORK.

WHEREAS, the City of Fircrest operates a water distribution system; and

WHEREAS, the City of Fircrest water main at the above location had a failure and rupture in the water main; and

WHEREAS, the City of Fircrest has determined that the break in the water main has diminished fire flow availability in the area; and

WHEREAS, the City needs to repair and replace this broken water main constitutes an emergency due to unforeseen circumstances beyond the control of the City, which presents a real, immediate threat to the proper performance of the essential functions of the City's water system or will likely result in material loss or damage to property, bodily injury or loss of life if action is not immediately taken to relocate the water main on Weathervane Avenue; and

WHEREAS, the City staff has recommended (a) the water main be relocated immediately, (b) an emergency be declared to proceed with work as soon as possible to complete the relocation and the formal bidding requirements set forth in RCW 39.04.280 applicable to the City be waived to immediately obtain a qualified and responsible contractor to undertake this work. Now, Therefore,

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF FIRCREST:

Section 1. The recitals set forth above are incorporated herein by this reference.

Section 2. Pursuant to RCW 39.04.280(1) (e), an emergency is hereby declared for the above stated water main relocation.

Section 3. City staff are hereby authorized and directed to immediately undertake getting the water main relocation project completed.

APPROVED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF FIRCREST, WASHINGTON, at a regular meeting thereof this 14th day of November 2017.

APPROVED:

Matthew Jolibois, Mayor

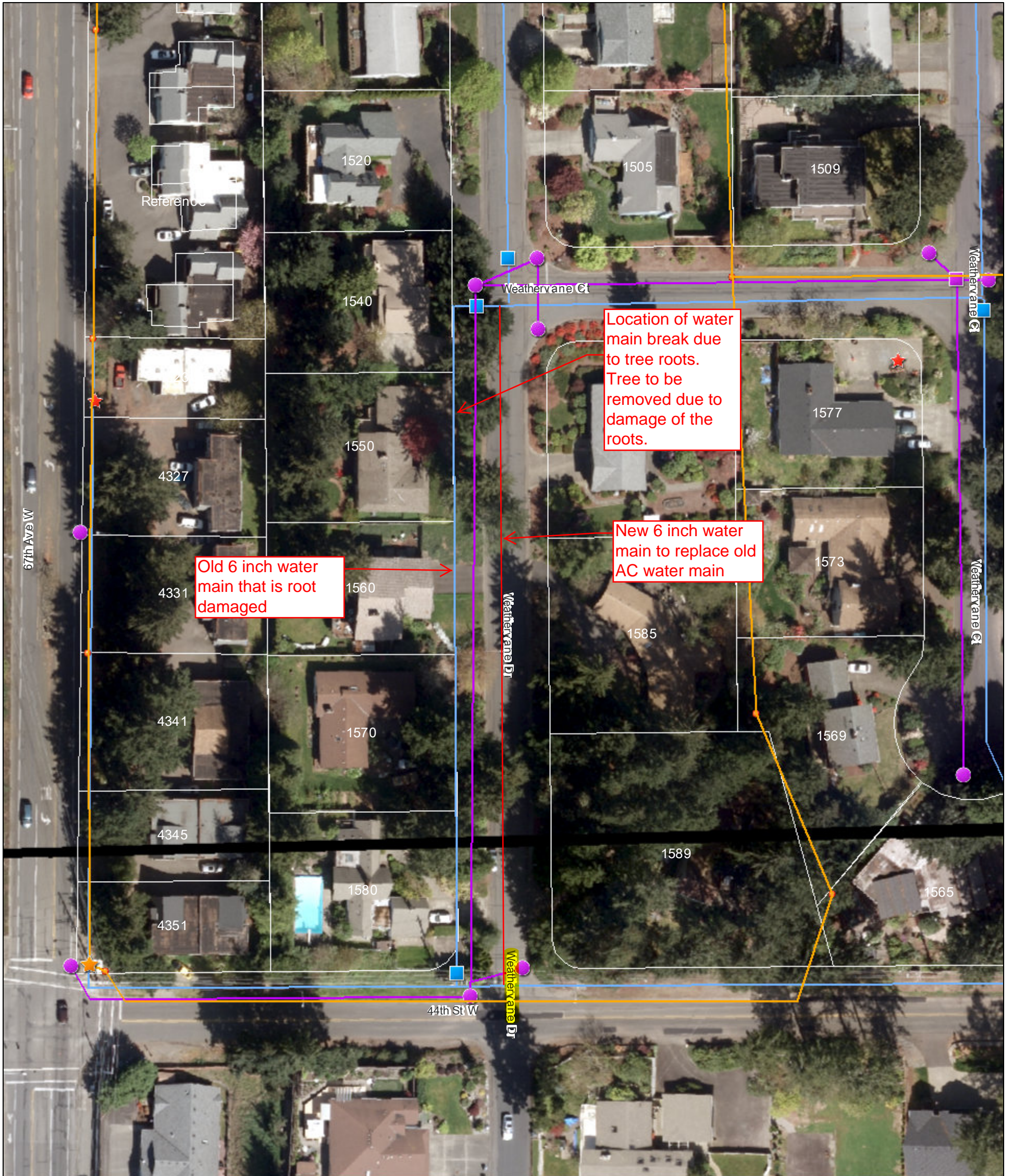
ATTEST:

Jessica Nappi, City Clerk

APPROVED AS TO FORM:

Michael B. Smith, City Attorney










Weathervane water main



November 9, 2017

 SewerPumpStation  Parcels

SewerPipe

-  Force Main
-  Forcemain
-  StormManhole
-  StormCB
-  StormPipe
-  SewerManHole
-  FireHydrant
-  WaterValve
-  WaterPipes

