

Source: Public Works

John
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Agenda Item No: (A)

To: **City Council**
From: **City Manager and Staff**

Council Meeting Date: Apr 7, 2014

Re: Haystack Acres Pump Station Interceptor Sewer Project

EXECUTIVE SUMMARY:

Staff has prepared for Council consideration legislation setting a Public Hearing for May 5, 2014 concerning the construction of the Haystack Acres Pump Station Interceptor Sewer. This project will involve constructing approximately 3,450 linear feet of gravity sewer along a tributary to Bear Creek, and the removal of two pump stations. The project is located in the southern area of Haystack Acres Subdivision (see attached diagram). The estimated total cost for this project is \$451,000.

DISCUSSION:

There are three pump stations, constructed in 1997, that serve the Haystack Acres subdivision. Two of the pump stations are located within 1,300 feet of each other on the north side of Alfalfa Drive. Each of the pump stations consists of a wet well, a valve vault, and an emergency storage well. Each of these are in ground, concrete structures, and house two submersible grinder pumps that pump to a force main. The pumps are operated based on wet well water levels measured with float switches. The general alarm communicates to the Wastewater Treatment Plant with an auto dialer. Consultants for the 2004 Sanitary Sewer Master Plan evaluated the pump stations, and at the time the Master Plan was written, the pump stations were recommended to be eliminated by extending gravity sewer to a future sewer extension now known as the Bear Creek Outfall Sewer Extension.

In 2008, the Bear Creek Outfall Sewer Extension project was constructed providing a gravity sewer running southwest from near Hampton Woods to the southern edge of Gregory Heights Subdivision. The Haystack Acres Pump Station Interceptor Sewer project proposes to extend gravity sewer from the Haystack Acres Subdivision to where the Bear Creek Outfall Sewer Extension runs along Oakland Gravel Road. By extending the gravity system, the two pump stations along Alfalfa Drive can be eliminated. The third pump station is located on the other side of the ridge in the Rocky Fork watershed, and will not be eliminated. In order to remove it with this sewer, it would have to be constructed between 40 and 50 feet deep, which would be very difficult to accomplish.

Public Works invited property owners to an Interested Parties (IP) meeting on November 20, 2013. Five persons from three affected properties attended the meeting. Other property owners that will be affected by the project have been contacted directly by staff, to discuss the project. Most comments from the property owners have been positive.

FISCAL IMPACT:

The estimated total cost for this project is \$451,000 (\$10,000 for design, \$16,000 for easements, and \$425,000 for construction), and the project will be funded from sanitary sewer utilities funds. Removing the pump stations reduces the likelihood of sewer backups for which the City pays damages to property owners. It is anticipated that the project will save approximately \$2,000 in annual sewer operations and maintenance costs.

VISION IMPACT:

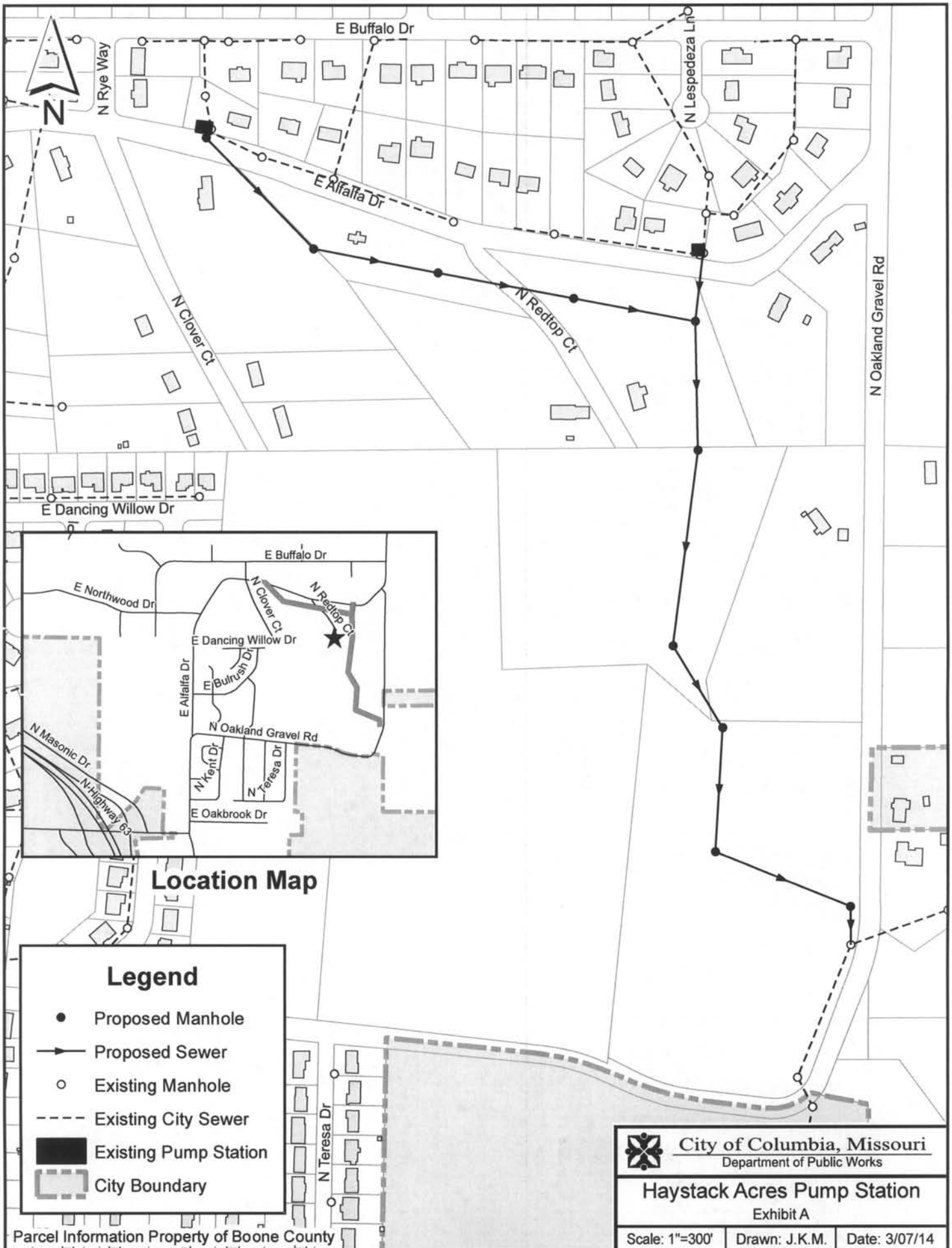
<http://www.gocolumbiamo.com/Council/Meetings/visionimpact.php>

The proposed sewer upgrade to eliminate the pump stations will help protect the water quality of the Bear Creek watershed.

SUGGESTED COUNCIL ACTIONS:

Following public input and Council discussion at the Public Hearing, a motion should be made directing staff to proceed with final plans and specifications for the project.

FISCAL and VISION NOTES:					
City Fiscal Impact Enter all that apply		Program Impact		Mandates	
City's current net FY cost	\$23,542.00	New Program/ Agency?	No	Federal or State mandated?	No
Amount of funds already appropriated	\$570,000.00	Duplicates/Expands an existing program?	No	Vision Implementation impact	
Amount of budget amendment needed	\$0.00	Fiscal Impact on any local political subdivision?	No	Enter all that apply: Refer to Web site	
Estimated 2 year net costs:		Resources Required		Vision Impact?	Yes
One Time	\$0.00	Requires add'l FTE Personnel?	No	Primary Vision, Strategy and/or Goal Item #	9.1
Operating/ Ongoing	\$400,000.00	Requires add'l facilities?	No	Secondary Vision, Strategy and/or Goal Item #	
		Requires add'l capital equipment?	No	Fiscal year implementation Task #	



Property Owner Contract Log
Haystack Acres Pump Station Elimination Project

House No.	Owner	Mailing Address	Comments
6406 N Clover Ct	Bernard Donley	same	1/8: Left phone message. 1/10: Property owner called, does not want to connect because of preannexation agreement, would be willing to grant easement if paid.
2750 E Alfalfa Dr	Dan Blakemore	same	9/11: Met property owner on site to discuss alignment. Would like to connect and ok with going between house & lake. 1/3: Sent email with option to run main in front of or behind home. 1/15: Phone message. Property owner OK with running line behind home and plans to connect to the sewer.
6400 N. Redtop Ct	Estil & Susan Poff	same	11/8: Mr. Poff called. Has some questions about the easements. Also, he pumps to Haystack Acres and would like to connect to the proposed main to get rid of his pump station 11/20: At IP Meeting addressed additional questions about the easements, construction, and connecting to the city main. 3/3: Called and left a message that the alignment has been adjusted to north of the power lines on their property.
2940 E. Alfalfa Dr	Michael & Amanda Hale	same	3/3: Phoned but no answer. 3/3: Sent letter requesting them to call me. 3/13: Phoned but no answer.
6395 N Oakland Gravel Rd	Sarah, Margaret, & Deborah Booker	also: 2403B E Elaine Dr. Columbia, Mo	11/12: Met w/at City Hall. Ok with the project, but very passionate about their land and how they want it worked on & restored. Also, wants to connect to the sewer free of charge. 11/20: At IP Meeting discussed the easements, requirements to connect to City sewer, construction practices, etc. 12/4: Met on site and walked alignment.
2869 E. Alfalfa Dr PS1	Joseph Wissel & Bastlen Mehemie	same	3/3: Sent letter requesting them to call me. 3/6: Discussed by phone the project in general, easements, alignment, and timeline.
2899 E Alfalfa Dr PS1	Paul & Martha Hague	1741 CR 2360 Moberly, MO	3/3: Spoke with Mr. Hague by phone. He is good with the project. Wanted to make sure disturbed areas were restored and asked about timeline.
2599 E Alfalfa Dr PS2	Matthew Ross	same	3/3: Sent letter requesting them to call me. 3/6: Responded to email about the project. Discussed what would happen with the pump station, timeline, general process of the project.

IP Meeting letter mailed 11/5/13. IP meeting set for Wednesday, November 20th at 5:30.

Introduced by _____ Council Bill No. R 50-14

A RESOLUTION

declaring the necessity for construction of the Haystack Acres pump station interceptor sewer project; stating the nature of and the estimate of the cost of the improvement; providing for payment for the improvement; providing for compliance with the prevailing wage law; and setting a public hearing.

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF COLUMBIA, MISSOURI, AS FOLLOWS:

SECTION 1. The Council finds that the construction of approximately 3,450 linear feet of gravity sewer along a tributary to Bear Creek and the removal of two pump stations, all in accordance with City of Columbia Street and Storm Sewer Specifications and Standards, as part of the Haystack Acres pump station interceptor sewer project, is necessary for the welfare and improvement of the city and that it is in the public interest that such improvements be made.

SECTION 2. The nature and scope of the improvement shall consist of furnishing all labor, materials, transportation, insurance and all other items, accessories and incidentals thereto necessary for the complete construction of the improvement.

SECTION 3. The estimated cost of this improvement is \$451,000.00.

SECTION 4. Payment for this improvement shall be made from sanitary sewer utility funds and such other funds as may be lawfully appropriated.

SECTION 5. Any work done in connection with the construction of the improvement specified above shall be in compliance with the provisions of the prevailing wage laws of the State of Missouri.

SECTION 6. A public hearing in respect to this improvement will be held in the Council Chamber of the City Hall Building, 701 E. Broadway, Columbia, Missouri, at 7:00 p.m. on May 5, 2014. The City Clerk shall cause notice of this hearing to be published in a newspaper published in the City.

ADOPTED this _____ day of _____, 2014.

ATTEST:

City Clerk

Mayor and Presiding Officer

APPROVED AS TO FORM:

City Counselor