

# City of Columbia

701 East Broadway, Columbia, Missouri 65201



Agenda Item Number: (B) Supplemental Information

Department Source: Water & Light

To: City Council

From: City Manager & Staff

Council Meeting Date: May 5, 2014

Re: Supplemental Information for (B) Construction of the 16-inch Oakland Church Road Water Main

## Documents Included With This Agenda Item

Supplemental Council Memo

Supporting documentation includes: Maps

## Executive Summary

At the April 7 Council Meeting, Council tabled this item for further consideration of routing options presented by affected parties. These additional routing options have been reviewed with affected parties and final recommendations and options are presented here.

## Discussion

At the April 7 Council Meeting, Council tabled this item for further consideration of routing options presented by affected parties. These additional routing options have been reviewed with affected parties and final recommendations and options are presented here.

The preferred alignment, identified as Alignment Option 4, with revision as coordinated with the affected parties, connects to an existing 16" water main along the east side of Route B north of Peabody Road, then runs westerly along the south side of the Central Electric Power Cooperative's easement until it reaches Oakland Gravel Road. The revised alignment continues west then turns south along the affected parties property line where it connects with an existing 16" water main west of the intersection of North Teresa Drive.

Upon City Council approval for this water main construction project and a preferred alignment, plans and specifications will be prepared by HDR Engineering for construction bidding as well as developing legal descriptions of easements required for completion of the work.

## Fiscal Impact

Short-Term Impact: Not Applicable

Long-Term Impact: Not Applicable

## Vision, Strategic & Comprehensive Plan Impact

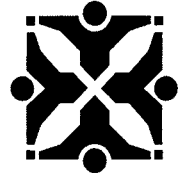
Vision Impact: Not Applicable

Strategic Plan Impact: Infrastructure

Comprehensive Plan Impact: Infrastructure

# City of Columbia

701 East Broadway, Columbia, Missouri 65201



## Suggested Council Action

Following public input, a motion directing staff to proceed with developing plans and specifications for construction of the 16" Oakland Church Road Water Main Project.

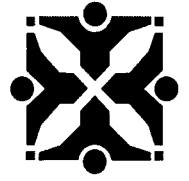
## Legislative History

2/13/2014 Interested Parties Meeting

4/7/2014 Public Hearing, Item tabled to 5/5/2014 Council Meeting

  
Department Approved

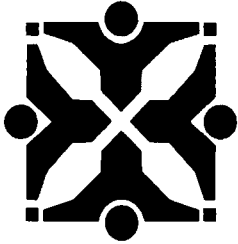
  
City Manager Approved



SUPPORTING DOCUMENTS INCLUDED WITH  
THIS AGENDA ITEM ARE AS FOLLOWS:

Maps





Source: Water & Light *Tab*

Agenda Item No: ( B )

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

Council Meeting Date: Mar 17, 2014

**Re:** Public Hearing - 16" Oakland Church Road Water Main Project

**EXECUTIVE SUMMARY:**

Staff has prepared for Council consideration a resolution setting a public hearing on April 7, 2014 for the construction of the 16" Oakland Church Road Water Main Project in the northeast pressure zone. A total of \$3,265,000 has been appropriated for this project from 2008 revenue bonds in the 2014 Capital Improvement Program under project WT0209. An interested parties meeting was held for this project at Alpha Hart Lewis Elementary School on February 13, 2014.

**DISCUSSION:**

The 2008 Long Range Study identified the need for a 16-inch diameter water main loop connection from the eastern boundary of the northeast pressure zone to Stephens Station Water Tower and then to a connection within the western boundary of the pressure zone. The eastern leg of this loop is identified as the Heller Road 16" Water Main Project which is currently being planned for construction in the Spring of 2014. The Oakland Church 16" Water Main Project will complete the western leg of this proposed loop. This 16" water main shall connect to an existing valve at the intersection of Teresa Drive and Oakland Gravel Road and extend to a point Near Stephens Station Water Tower at the intersection of Brown Station Road and Heller Road. Construction of this water main will increase water flows to the area for consumer and fire protection needs as well as allow the department to serve any new growth and developments within the water service territory. The Oakland Church 16" Water Main Project will conclude the final phase of improvements identified in the 2008 water revenue bond issue for improvements in the northeast pressure zone.

HDR Engineering Inc. of Lees Summit, MO prepared a preliminary alignment study to evaluate conceptual water main alignments for this project. An evaluation matrix was developed to analytically rank the proposed alignments based on the the following criteria:

- Capital Cost
- Accessibility for Maintenance
- Environmental Impact
- Easement requirements
- Service to existing & future developments
- Minimization of tree clearing
- Conflicts with existing utilities

Each water main alignment options, shown in the attached diagram, was assigned numerical values based on the selection the criteria above. These criteria were weighed in terms of importance and scored for each alignment to identify the preferred water main alignment. The preferred alignment, identified as Alignment Option 4, connects to an existing 16" water main along the east side of Route B north of Peabody Road then runs westerly along the south side of the Central Electric Power Cooperative's easement until it reaches Oakland Gravel Road. The alignment then turns south along the west side of Oakland Gravel Road following Oakland Gravel Road to the south and west where it connects with an existing 16" water main north of the intersection of North Teresa Drive.

Water and Light and HDR Engineering staff hosted an interested parties meeting for this project at Alpha Hart Lewis Elementary School on February 13, 2014 to present the water main alignment options considered. Comments from the attending stakeholders were considered during the development of the evaluation matrix scoring and alignment selection. Property owners expressed concerns with the restoration of easements after construction of this main and the Department has committed to restoring these areas

adequately and in a timely manner. The recommended Alignment Option 4 minimizes the amount of disturbance in improved areas and near residences.

Upon City Council approval for this water main construction project and a preferred alignment, plans and specifications will be prepared by HDR Engineering for construction bidding as well as developing legal descriptions of easements required for completion of the work.

**FISCAL IMPACT:**

The Engineer's Estimate for construction of water main alignments considered range from \$2,331,000 to \$1,763,000 with the recommended alignment representing the least cost alternative. Funding for this project will come from a revenue bond package approved by voters in the 2008 ballot issue and \$3,265,000 has already been appropriated in the Capital Improvement Program under project number WT0209.

**VISION IMPACT:**

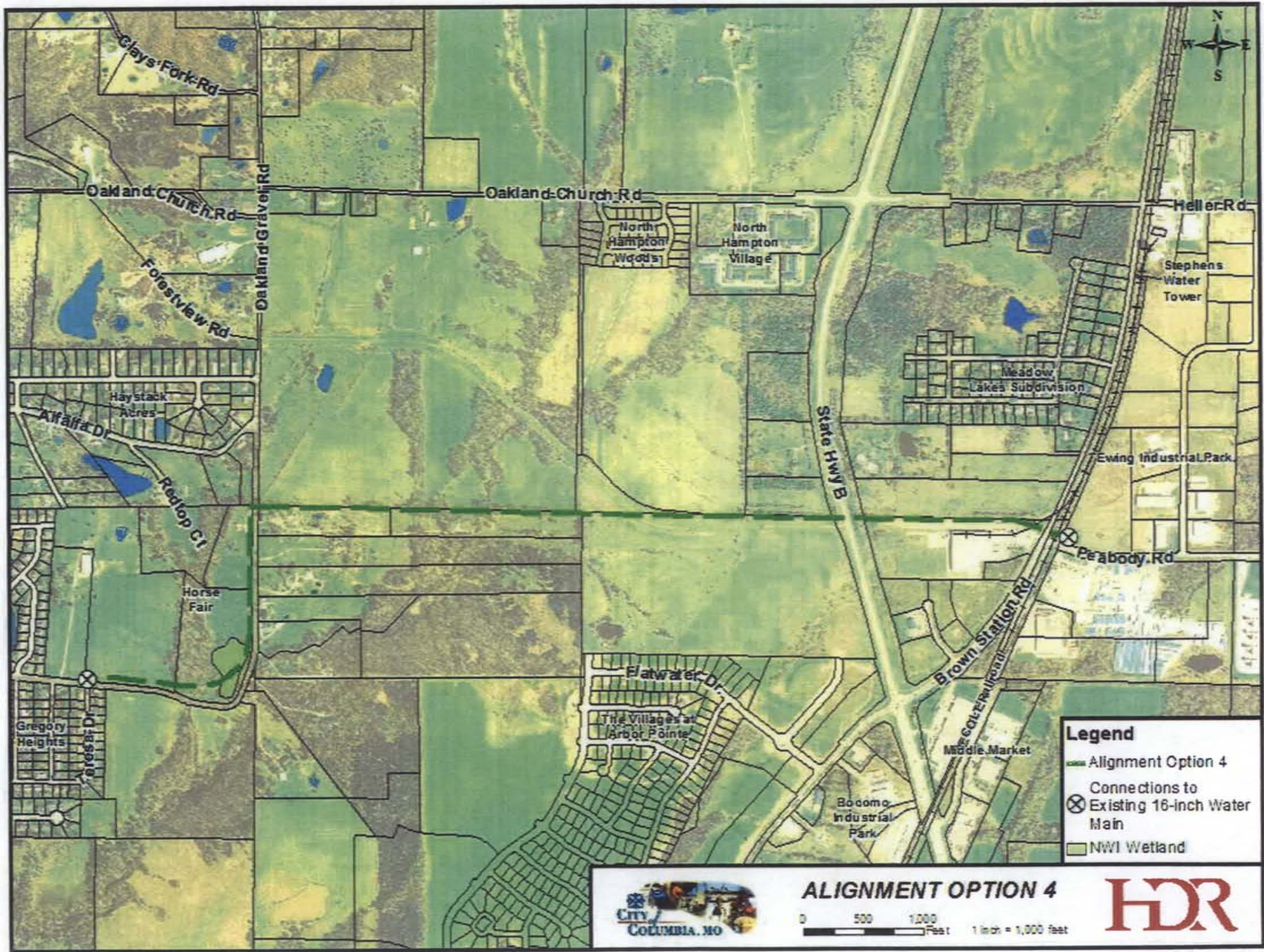
<http://www.gocolumbiamo.com/Council/Meetings/visionimpact.php>

This Project has been identified in the 2008 Long Range Study as necessary in order to ensure a safe and reliable water supply to the northeast pressure zone of the water distribution system.

**SUGGESTED COUNCIL ACTIONS:**

Staff recommends Council approve the resolution setting the Public Hearing on April 7, 2014. Following public input at the public hearing, a motion should be made directing staff to proceed with developing plans and specifications for the construction of the 16" Oakland Church Road Water Main Project.

<b>FISCAL and VISION NOTES:</b>					
<b>City Fiscal Impact</b> Enter all that apply		<b>Program Impact</b>		<b>Mandates</b>	
City's current net FY cost	\$0.00	New Program/ Agency?	No	Federal or State mandated?	No
Amount of funds already appropriated	\$3,265,000.00	Duplicates/Expands an existing program?	No	<b>Vision Implementation impact</b>	
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:		<b>Resources Required</b>		Vision Impact?	Yes
One Time	\$0.00	Requires add'l FTE Personnel?	No	Primary Vision, Strategy and/or Goal Item #	5.1
Operating/ Ongoing	\$0.00	Requires add'l facilities?	No	Secondary Vision, Strategy and/or Goal Item #	
		Requires add'l capital equipment?	No	Fiscal year implementation Task #	



Clays Fork Rd

Oakland Church Rd

Forestview Rd

Alfalfa Dr

Redtop Ct

Gregory Heights

Oakland Gravel Rd

Oakland Church Rd

North Hampton Woods

North Hampton Village

Haystack Acres

Horse Fair

Flatwater Dr

The Villages at Arbor Pointe

State Hwy B

Bocono Industrial Park

Brown Station Rd

Modie Market

Heller Rd

Stephens Water Tower

Meadow Lakes Subdivision

Ewing Industrial Park

Peabody Rd



### A RESOLUTION

declaring the necessity for construction of the 16-inch Oakland Church Road water main project located in the northeast pressure zone; 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 City Council deems the construction of the Oakland Church Road water main project located in the northeast pressure zone, specifically to include construction of a 16-inch water main connecting to an existing valve at the intersection of Teresa Drive and Oakland Gravel Road and extend to a point near Stephens Station Water Tower at the intersection of Brown Station Road and Heller Road, necessary to the welfare and improvement of the City.

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 improvements.

SECTION 3. The estimated cost of this improvement is \$3,265,000.00.

SECTION 4. Payment for this improvement shall be made from Water and Electric System revenue bonds appropriated in Capital Improvement Project No. WT0209 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 April 7, 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