

Introduced by _____

First Reading _____

Second Reading _____

Ordinance No. _____

Council Bill No. B 190-12

AN ORDINANCE

determining it is in the public interest to construct sidewalks along the west side of Fairview Road from Fairview Elementary School to north of Rollins Road, and along the south side of Rollins Road from Fairview Road to Cambridge Drive, and construction of a mini roundabout at the intersection of Fairview Road and Rollins Road; approving and adopting plans and specifications; determining that the work shall be done by contract; calling for bids through the Purchasing Division; providing for payment for the improvement; authorizing the City Manager to obtain, execute and record all documents necessary for the improvement; providing for compliance with the prevailing wage law and state-mandated construction safety training; and fixing the time when this ordinance shall become effective.

WHEREAS, the City Council adopted a resolution declaring the necessity of constructing sidewalks along the west side of Fairview Road from Fairview Elementary School to approximately 220 feet north of Rollins Road, and along the south side of Rollins Road from Fairview Road to Cambridge Drive, and construction of a mini roundabout at the intersection of Fairview Road and Rollins Road; and

WHEREAS, the notice of a public hearing on this project was published in a daily newspaper of general circulation in the city; and

WHEREAS, the City Council has held a public hearing on construction of the improvement.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF COLUMBIA, MISSOURI, AS FOLLOWS:

SECTION 1. The Council finds that the construction of sidewalks and other miscellaneous work, all in accordance with the City of Columbia Street and Storm Sewer Specifications and Standards, along the west side of Fairview Road from Fairview Elementary School to approximately 220 feet north of Rollins Road, and along the south side of Rollins Road from Fairview Road to Cambridge Drive, and construction of a mini roundabout at the intersection of Fairview Road and Rollins Road, in the City of Columbia,

Missouri, 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 plans and specifications for this improvement, as prepared by the Director of Public Works, are hereby approved and made a part of this ordinance by reference.

SECTION 3. The construction of the improvement shall be done by contract in accordance with the plans and specifications, the laws of the State of Missouri, and the Charter and Ordinances of the City of Columbia, Missouri.

SECTION 4. The Purchasing Agent is hereby authorized to call for bids and execute a contract for the improvement.

SECTION 5. Payment for this improvement shall be made from Capital Improvement Sales Tax Funds and such other funds as may be lawfully appropriated.

SECTION 6. The City Manager is authorized to obtain, execute and have recorded all licenses, easements, deeds and any other conveyances or instruments necessary for the City to complete this improvement.

SECTION 7. The contract for the improvement shall provide that not less than the prevailing hourly rate of wages, as found by the Department of Labor and Industrial Relations of Missouri, shall be paid to all workers performing work under the contract. The contractor's bond shall guarantee the faithful performance of the prevailing hourly wage clause in the contract.

SECTION 8. The bid specifications and contract for the improvement shall provide that the contractor and any subcontractor shall provide a ten-hour Occupational Safety and Health Administration construction safety program (or a similar program approved by the Missouri Department of Labor and Industrial Relations) for all employees working on-site. All employees working on the site of the improvement are required to complete the safety program within 60 days of beginning work on the improvement project.

SECTION 9. This ordinance shall be in full force and effect from and after its passage.

PASSED this _____ day of _____, 2012

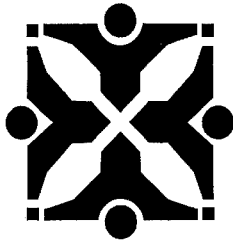
ATTEST:

City Clerk

Mayor and Presiding Officer

APPROVED AS TO FORM:

City Counselor



Source: Public Works

Agenda Item No:

To: City Council
From: City Manager and Staff

Council Meeting Date: Aug 6, 2012

Re: Easement Acquisition and Bid Call - Fairview Road Sidewalk with a Mini Roundabout

EXECUTIVE SUMMARY:

Staff has prepared for Council consideration two ordinances; one authorizing the acquisition of easements necessary to construct the Fairview Road sidewalk project with a mini roundabout, and the other authorizing a bid call through the Purchasing Division for construction of the project.

The Fairview Road sidewalk project will be constructed in 2013. A public hearing was held on April 2, 2012 (memo attached). Staff has contacted property owners, from whom easements are required, informing them of this ordinance. A revised contact log is attached.

DISCUSSION:

At the public hearing, council directed staff to proceed with the Fairview Road sidewalk project, including a mini roundabout, at the intersection of Fairview Road and Rollins Road (see Exhibit 1). The proposal is to construct sidewalks along the west side of Fairview Road, from Fairview Elementary School to 220 feet north of Rollins Road; the south side of Rollins Road, from Fairview Road to Cambridge Drive; and a mini roundabout at the intersection of Fairview Road and Rollins Road.

One (1) permanent street easement, five (5) permanent sidewalk easements, and eleven (11) temporary construction easements are needed from nine (9) separate property owners for the construction of the project. At the request of several parcel owners, the mountable islands have been shortened leaving a few roadside parking spaces on Rollins Road, and to maintain current access onto their property. These can be seen on the attached Plan View diagrams (Exhibits 2 & 3). The Plan View diagrams also show proposed easements, approximate grading limits and project features.

FISCAL IMPACT:

\$500,000 has already been appropriated and payment shall be made from ¼% Capital Improvement Sales Tax.

VISION IMPACT:

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

Columbia will enjoy a safe, interconnected, non motorized transportation network. It will be culturally supported by the citizens as it will encourage social interaction and healthy lifestyles. The roadway, sidewalk, public transit, and trail systems will all tie together into an effective integrated transportation network.

Give proper funding, priority, and support to repairing, connecting, and expanding the city sidewalk system. Increase the pace of sidewalk improvements.

SUGGESTED COUNCIL ACTIONS:

Approval of the ordinances to move forward with easement acquisition and bidding the Fairview Road sidewalk project.

FISCAL and VISION NOTES:					
City Fiscal Impact Enter all that apply		Program Impact		Mandates	
City's current net FY cost	\$36,592.00	New Program/ Agency?	No	Federal or State mandated?	No
Amount of funds already appropriated	\$500,000.00	Duplicates/Epands 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 #	#13
Operating/ Ongoing	\$0.00	Requires add'l facilities?	No	Secondary Vision, Strategy and/or Goal Item #	#13.1.3
		Requires add'l capital equipment?	No	Fiscal year implementation Task #	

PROPERTY OWNER CONTACT LOG			NOTIFIED OF 1ST IP (11/28/11)	ATTENDED 1ST IP (12/8/11)	NOTIFIED OF PUBLIC HEARING (12/15/11)	CERTIFIED MAIL (3/8/12)	SPoke WITH ON PHONE OR LEFT MESSAGE	MET IN OFFICE OR ON SITE	MAILED LETTER/DIAGRAM OR E-MAILED	NOTES
Project: Fairview Sidewalk Sam Budzyna/Jennifer Hudson (6/18)										
1651000020050001 & 1651000020040001	THOMSON CHERYL & JEFFREY W 3970 MCGILL POINTE DR ROCHEPORT, MO 65279	815 S FAIRVIEW ROAD COLUMBIA, MO 65203 & 811 S FAIRVIEW ROAD COLUMBIA, MO 65203	X	X			3/16 - Spoke on phone with Cheryl Thomson 6/18-Talked with Cheryl			3/16 - Concerned about safety if retaining wall is installed and who is responsible if kids hurt themselves on the retaining wall. Also asked about who is responsible for keeping sidewalk clear of snow, informed her the property owner is responsible for right of way adjacent to respective property. 6/18-Talked with Cheryl about easements being described and to let her know the ROW agent will be in touch with her to go over the easements. She said she was happy that the retaining walls had been removed but wanted to know how long it would be before the tenants would have access to their drives again, told her I would check and have the ROW agent go over the with her when they discuss the easements.
1651000020020001	KOEDEL CORY R & TRICIA Y 3311 RED BAY CREEK COLUMBIA, MO 65203	805 S FAIRVIEW ROAD COLUMBIA, MO 65203	X	X			3/9 - Call Received 3/16 - Left voicemail for Koedel residence 6/18-Talked with Tricia			3/9 - Received call, wants to be informed of start of construction to notify tenants. 6/18-Talked with Tricia to let her know the status of the project at this time and that the ROW agent will contact them to go over the easment needed on their property. No questions and will wait to talk with the ROW agent
1651000020010001	MCQUILLEN FAMILY REVOCABLE AND LIVING TRUST 315 SMOKY MOUNTAIN CT COLUMBIA, MO 65203	801 S FAIRVIEW ROAD COLUMBIA, MO 65203	X	X			3/7 - Wendy returned call 3/16 - Spoke with on phone 6/18-Talked with Betty 6/21-Met with Owners			3/7 - Wendy Lister returned their call, informed them they will not be tax billed. 3/16 - Opposed to mini-roundabout. Property is located at southwest corner of intersection of Fairview Road and Rollins Road. Tenants of house use the street for parking and would no longer be allowed to park in the street. Plans to attend public hearing. 6/18-Talked with Betty, she expressed her concern that her property will be depreciated due to no parking on the street. Her property contains a duplex which the tenants have 4 vehicles and were using the street as additional parking. She stated she knows for sure that she will lose at least one tenant due to this. Wants us to look into additional parking options or purchase the property. 6/21- Met with Betty and her husband, showed them changes to the roundabout island which will allow tentants to continue parking on the street. They were happy with that change.
1651000020100001	MORRISON RAYMOND & FRED A 800 CAMBRIDGE DR COLUMBIA, MO 65203	800 CAMBRIDGE DR COLUMBIA, MO 65203	X	X			3/16 - Spoke with Raymond on the phone 6/18-Talked with Raymond			3/16 - Not in favor of either option. Agrees that a signal is not needed, but does not think that a sidewalk is needed either. Opposed to mini-roundabout due to Chateau Apartments tenants parking in the street. Believes either option will create problems. Plans to attend public hearing 6/18-Wanted to know about the fence that will have to be removed and if there are any costs to him for this project. Also wanted to let us know about his concern about the traffic on Rollins being able to get through the Roundabout when school is in session and would like to talk with the traffic engineer if possible. 7/10-Richard Stone contacted Mr. Morrison and they discussed the roundabout and traffic concerns he had. Richard went over the design and Mr. Morrison said it sounds like it will probably be ok.
1651000000010001	COLUMBIA PUBLIC SCHOOLS DR. NICK BOREN 1818 W WORLEY COLUMBIA, MO 65203	909 S FAIRVIEW ROAD COLUMBIA, MO 65203	X	X			3/16 - Left message with secretary 6/18 - Left message with secretary			Talked with with an assistant, they are aware of the project and have no issues with it.
1651000000010001	FAIRVIEW ELEMENTARY SCHOOL PRINCIPAL DIANA DEMOSS 909 S FAIRVIEW ROAD COLUMBIA, MO 65203	909 S FAIRVIEW ROAD COLUMBIA, MO 65203	X	X			3/16 - Spoke with Principal DeMoss on the phone			3/16 - Is in favor of the project and excited about completing the sidewalks. 6/18 - Talked with Kelsie Morris, another principal at the school, gave him the status of the project. He had no concerns just wanted to know the when construction will start.
1651000010010001	WIN-CHATEAU APARTMENTS LLC 3610 BUTTOWOOD DR STE 200 COLUMBIA, MO 65203	2905 ROLLINS ROAD COLUMBIA, MO 65203	X	X			3/16 - Left voicemail for John Wilhoit of Wilhoit Properties 3/16 - Call returned, spoke with John Wilhoit on phone			3/16 - Has no issues with the project, will send someone to the public hearing. 6/18-Talked with John, he just wanted to know where the sidewalk was going to be placed and approximated start of construction. Answered his questions.
1651100030110001	DEATZ GEORGE B 5414 S ROANOKE AVE SPRINGFIELD, MO 65810	2809 ROLLINS ROAD COLUMBIA, MO 65203	X	X			3/16 - Spoke on phone with George Deatz 6/18 - Talked with George			3/16 - Mrs. Deatz gave cell number of George Deatz: 417-840-5472 3/16 - Mr. Deatz prefers traffic signals. Does not support the mini-roundabout. Believes the many visitors to Columbia will be unfamiliar with the mini-roundabout and will be a safety concern. Has questions about easement acquisition. Would like to be contacted after public hearing and informed of which option was chosen. george.deatz@sbcglobal.net 4/16 - Email was sent informing Mr. Deatz of Council's decision. 6/18- E-mailed George a diagram showing the construction on his property and the portion of the entrance being reconstructed. He did not see a problem with the project, just wanted to know how well the grass area was going to be put back, told him that. Wanted to thank the City for the professionalism shown in handling projects with owners.
1651000020030001	PUCKETT JANE C 807-B S FAIRVIEW ROAD COLUMBIA, MO 65203	807 S FAIRVIEW ROAD COLUMBIA, MO 65203	X	X			3/16 - Left message with person 6/18-left message			3/16 - Ms. Puckett is on vacation. Message was left for her to call with any issues before the public hearing. 6/18-left a message, stated the status of the project and that the ROW agent will be in contact with her about the easement needed on the property.
1650100020080001 & 1650100020090101	HUSSAM ALI A & HALA A W DAWOOD 2002 CHAPEL RIDGE ROAD COLUMBIA, MO 65203	602 NANCY DRIVE COLUMBIA, MO 65203 & 604 NANCY DRIVE COLUMBIA, MO 65203	X	X			3/16 - Left voicemail for Hussam family 6/18-left message			No reply received yet.
1651100012140001	FRANK HAM 1410 I-70 DRIVE S.W. COLUMBIA, MO 65203	CHATEAU REAL ESTATE CORP 00000 ROLLINS ROAD COLUMBIA, MO 65203					3/28 - Received call from Frank Ham	X		3/20 - Condos located at southeast corner of Fairview Road and Rollins Road intersection. Met with Frank Ham at Ham Realty, he is on the Board of Directors for the Condo Association. His main concern was the narrowing of Fairview Road. 3/28 - Frank Ham called to ask how many feet would be used on city right of way on the southeast corner of the intersection, for aesthetic reasons. Answer: 5-6 feet. He also had concerns about the safety of child-pedestrians crossing the mini-roundabout and drivers being more concerned with entering the roundabout. 4/2 - Mr. Ham stopped by City Hall and talked with Nazmul Hussain about his entrance being right-in-right-out. The entrance is chained off in the summer to avoid drive-throughs, but apparently not in the winter. Nazmul told him the splitter island can be shortened to avoid limiting access to his property. 7/9 - Splitter island has been shortened. No easements will be needed from this property.

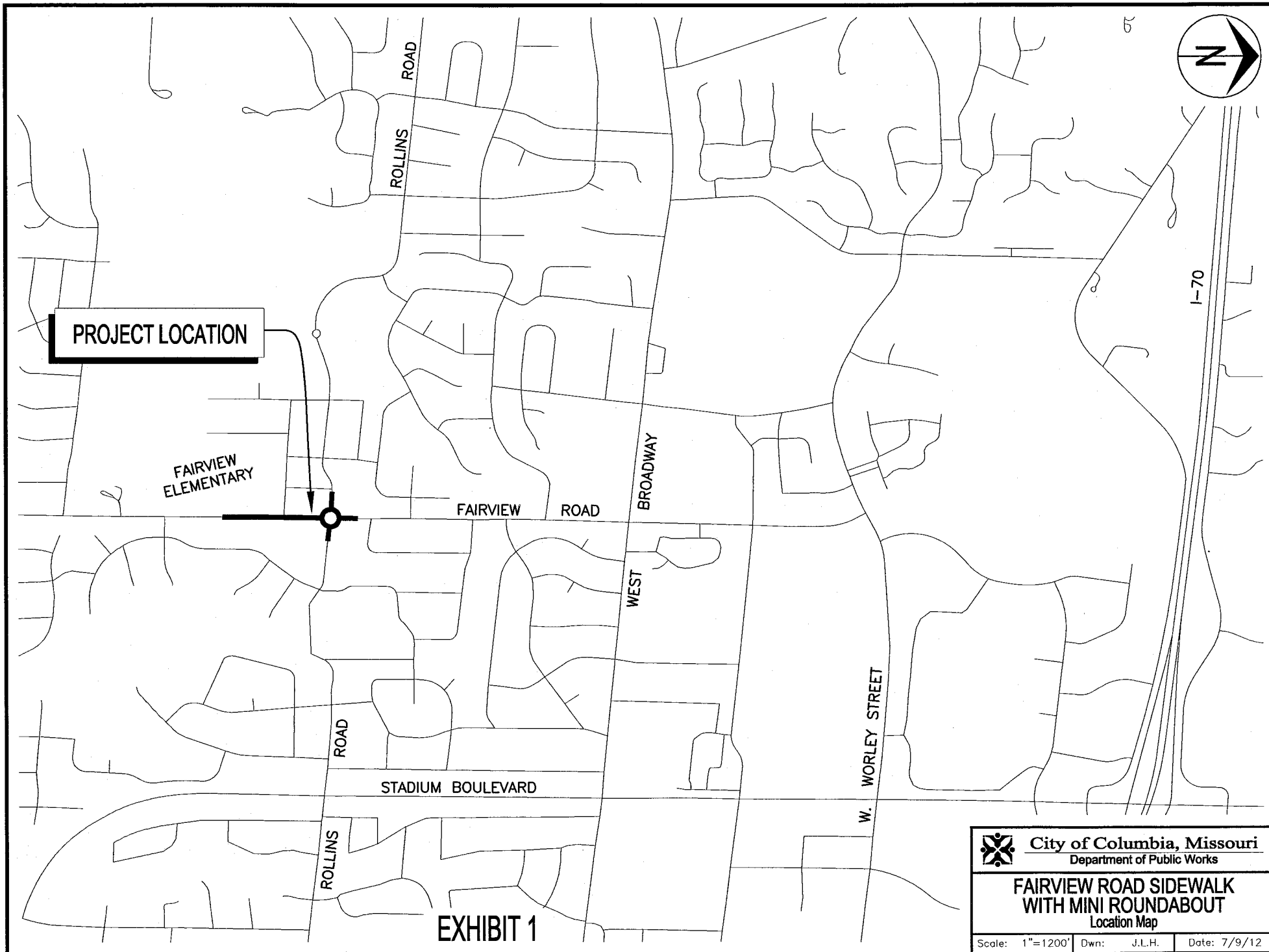


EXHIBIT 1



City of Columbia, Missouri
Department of Public Works

**FAIRVIEW ROAD SIDEWALK
WITH MINI ROUNDABOUT**
Location Map

Scale: 1"=1200' Dwn: J.L.H. Date: 7/9/12



Columbia School District
WD Bk 330, Pg 61
parcel 16-510-00-001.00 01
E 1/2, SE 1/4, Sec 16, T48N, R13W

PSE

TCE

TCE

GRADING LIMIT

PSWE

PSE

FAIRVIEW ROAD

EXHIBIT 2

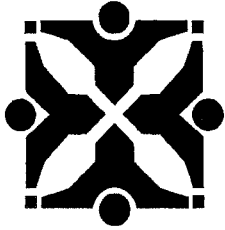


City of Columbia, Missouri
Department of Public Works

FAIRVIEW ROAD SIDEWALK
WITH MINI ROUNDABOUT
PLAN VIEW

Scale: 1"=80' Dwn: J.L.H. Date: 7/9/12





Source: Public Works

To: City Council

From: City Manager and Staff

Council Meeting Date: April 2, 2012

Agenda Item No: Supplemental
Item (A)

Re: Supplemental Information for Public Hearing: Fairview Road Sidewalk Project
and Traffic Study for Rollins Road at Fairview Road (CM 3309)

EXECUTIVE SUMMARY:

Staff has prepared for Council consideration a supplemental report concerning the public hearing for the Fairview Road Sidewalk Project and the Traffic Study for Rollins Road at Fairview Road (CM 3309).

DISCUSSION:

Council passed Resolution R30-12 on March 5, 2012 which set a public hearing date of April 2, 2012 for the Fairview Road Sidewalk Project and the Traffic Study for Rollins Road at Fairview Road. Staff has been contacting adjacent property owners with a telephone call prior to the scheduled public hearing for this project. The attached Phone Contact Log provides that contact information for Council review.

FISCAL IMPACT:

\$500,000 has been appropriated to this project.

VISION IMPACT:

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

A network of safe roadways in and around the City will provide sustainable, efficient mobility to vehicular travel and other modes in a complimentary manner.

SUGGESTED COUNCIL ACTIONS:




This is a supplement to the information presented to Council concerning this project.


FISCAL and VISION NOTES:					
City Fiscal Impact Enter all that apply		Program Impact		Mandates	
City's current net FY cost	\$485,359.00	New Program/ Agency?	No	Federal or State mandated?	No
Amount of funds already appropriated	\$500,000.00	Duplicates/Epands 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 #	13
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 #	

Sam Budzyna

[illegible]

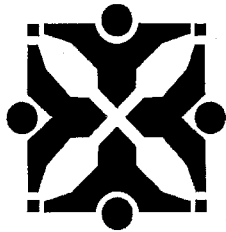


-  Parking Allowed
-  Existing No Parking
-  Proposed No Parking

**City of Columbia, Missouri**
Department of Public Works

**Fairview Road Sidewalk
On-Street Parking**

Scale: 1:100 | Dwn: SCB | Date: 3-26-12



Source: Public Works *Jah*

Agenda Item No: Item (A)

To: City Council

From: City Manager and Staff

Council Meeting Date: Mar 5, 2012 *MM*

Public Hearing- Fairview Road Sidewalk Project
Re: Traffic Study Rollins at Fairview (CM 3309)

EXECUTIVE SUMMARY:

Staff has prepared for Council consideration a resolution setting a public hearing for April 2, 2012 concerning the construction of sidewalks along the west side of Fairview Road from Fairview Elementary School to 220 ft. north of Rollins Road, and on the south side of Rollins Road from Fairview Road to Cambridge Drive, as shown on attached Exhibit 1. This project has been identified for construction in 2012. The funding shown in the CIP for this project is \$500,000 from 1/4% Capital Improvement Sales Tax.

In April of 2011, Council requested staff evaluate the intersection of Fairview Road, at Rollins Road, to determine if warrants are met for a traffic signal. The findings of the traffic study were coordinated with the design of the sidewalk project and the traffic study is being presented to Council at this time.

Interested party (IP) meetings were held February 11, 2010 at the time of project initiation, and again on December 6, 2011, where information from the traffic study was also presented. Both meetings were held at the Activity & Recreation Center (ARC). The comments received during public involvement were generally supportive of the project with no concerns raised.

DISCUSSION:

The project under consideration involves the construction of sidewalks along the west side of Fairview Road from Fairview Elementary School to 220 ft. north of Rollins Road, and on the south side of Rollins Road from Fairview Road to Cambridge Drive. This project will complete the sidewalk on the west side of Fairview Road from Broadway to Chapel Hill Road, and on the south side of Rollins Road from Stadium Boulevard to Scott Boulevard. The approximate sidewalk project lengths are 1,000 ft on Fairview Road and 280 ft on Rollins Road.

Fairview Road is classified as a major collector street with ADT of 7500 vpd and Rollins Road is classified as a neighborhood collector with ADT of 3700 vpd. These roads are important pedestrian connections for residential areas with the nearby schools, parks, and commercial areas.

Council requested staff evaluate the intersection of Fairview Road, at Rollins Road, to determine if warrants are met for a traffic signal. The traffic study findings indicate the intersection does not meet the Manual on Uniform Traffic Control Devices (MUTCD) signal warrants, however, the study recommends installation of a mini roundabout at the intersection. Benefits of a mini roundabout intersection control include decreased fuel usage, improved traffic flow, and enhanced pedestrian crossing when compared to a four-way stop controlled intersection. The detailed traffic study is attached.

The mini roundabout proposal has been evaluated to determine ways the intersection improvement, and sidewalk project, can be planned to be mutually compatible. The roundabout allows a minor reduction to the roadway width on Fairview Road, from Yorktown to Rollins Road, thereby allowing the sidewalk construction to occur with reduced impact to the adjacent yards and driveways; resulting in significant savings in right-of-way and construction costs.

Design Alternatives:

Alternative 1 - As shown on the attached Exhibits 2a and 2b, this alternative represents a typical sidewalk project. The majority of the sidewalk includes a grass strip between the curb and sidewalk. The section of sidewalk from Yorktown Drive to Rollins Road would be constructed at the back of curb to reduce impact to adjacent yards and driveway slopes. The sidewalk also would include an integral retaining wall to further

reduce yard slope impacts. Even with these modifications, there is still considerable impact to the yards, driveways and utilities. Permanent easements and temporary construction easements will be required.

Alternative 2 - As shown on attached Exhibits 3a, 3b and 3c, this alternative includes construction of a mini roundabout at the intersection of Fairview Road and Rollins Road. A mini roundabout functions the same as a conventional roundabout with yield on entry and counterclockwise circulation. A mini roundabout is similar to a conventional roundabout with the exception being that the center and splitter islands of a mini roundabout are mountable. The mountable islands allow the mini roundabout to be installed in the intersection without modifying the existing curb lines. Benefits of a mini roundabout intersection control include decreased fuel usage, improved traffic flow, and enhanced pedestrian crossing when compared to a four way stop controlled intersection.

The mini roundabout also allows a minor reduction to the roadway width on Fairview Road, from Yorktown to Rollins Road, thereby allowing the sidewalk construction to occur with reduced impact to the adjacent yards, driveways and utilities. The result is a significant sidewalk cost savings by eliminating a retaining wall, reducing driveway removal and re-construction, reducing yard grading, reducing right-of-way needs, and reducing utility relocation for the portion of sidewalk between Yorktown and Rollins Road. Some permanent easements and temporary construction easements will be required.

Costs for both alternatives are shown in the table below.

	<u>Alternative 1</u>	<u>Alternative 2</u>
Sidewalk cost - Fairview Road near Fairview School	\$97,000	\$97,000
Sidewalk cost - Fairview Road, Yorktown to Rollins	\$164,000	\$110,000
Sidewalk cost - Fairview Road, north of Rollins	\$54,000	\$54,000
Sidewalk cost - Rollins Road, west of Fairview Road	\$42,000	\$42,000
Roundabout Cost	N/A	\$108,000
Estimated Total Cost	\$357,000	\$411,000

Staff recommendation is to proceed with Alternative 2 due to the benefits of the roundabout controlled intersection and the reduced impact of the sidewalk construction on the yards and driveways between Yorktown and Rollins Road.

Public Involvement:

An IP meeting was held on February 11, 2010 at the Activity & Recreation Center, in conjunction with one other sidewalk project, Texas Avenue sidewalk. This meeting was held at the time of project startup, and approximately five (5) people attended the meeting. After additional preliminary design and coordination with the traffic study, an additional IP meeting was held on December 6, 2011 at the ARC with two (2) people attended the meeting. The comments received during public involvement were generally supportive of the project with no concerns raised. The purpose of the meetings were to present the project and alternatives, and to gain input and comments from those attending.

FISCAL IMPACT:

\$500,000 has already been appropriated to this project.

VISION IMPACT:

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

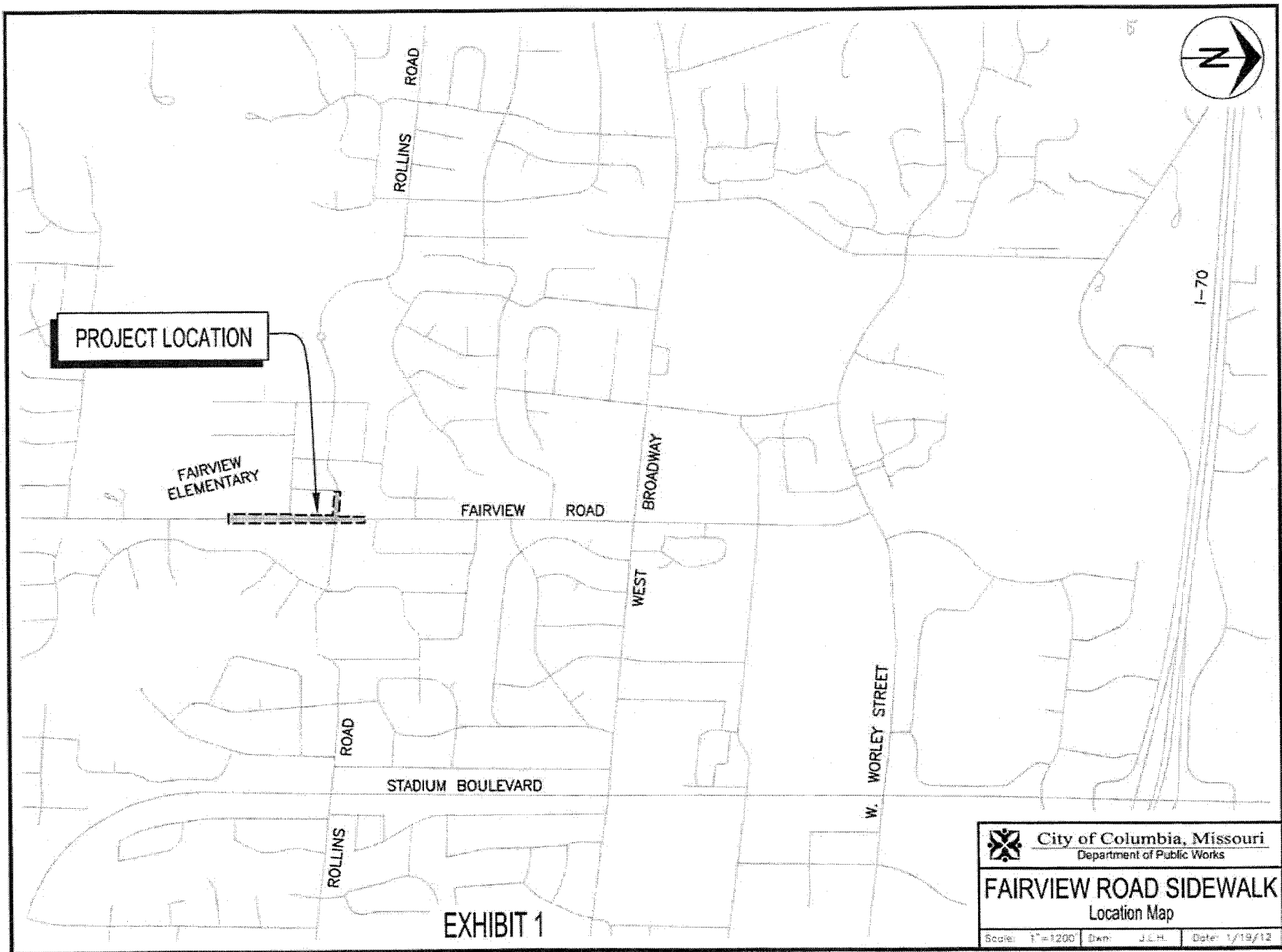
Columbia will enjoy a safe, interconnected, non motorized transportation network. It will be culturally supported by the citizens as it will encourage social interaction and healthy lifestyles. The roadway, sidewalk, public transit, and trail systems will all tie together into an effective integrated transportation network.


Give proper funding, priority, and support to repairing, connecting, and expanding the city sidewalk system. Increase the pace of sidewalk improvements.

SUGGESTED COUNCIL ACTIONS:

Following Council discussion and public input, staff should be directed to proceed with the development of plans and specifications for the Fairview Road Sidewalk project.

FISCAL and VISION NOTES:					
City Fiscal Impact Enter all that apply		Program Impact		Mandates	
City's current net FY cost	\$485,359.00	New Program/ Agency?	No	Federal or State mandated?	No
Amount of funds already appropriated	\$500,000.00	Duplicates/Epands 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 #	#13
Operating/ Ongoing	\$0.00	Requires add'l facilities?	No	Secondary Vision, Strategy and/or Goal Item #	#13.1.3
		Requires add'l capital equipment?	No	Fiscal year implementation Task #	



	City of Columbia, Missouri		
	Department of Public Works		
FAIRVIEW ROAD SIDEWALK			
Location Map			
Scale: 1"=1200'	Dwn: J.C.H.	Date: 1/19/12	

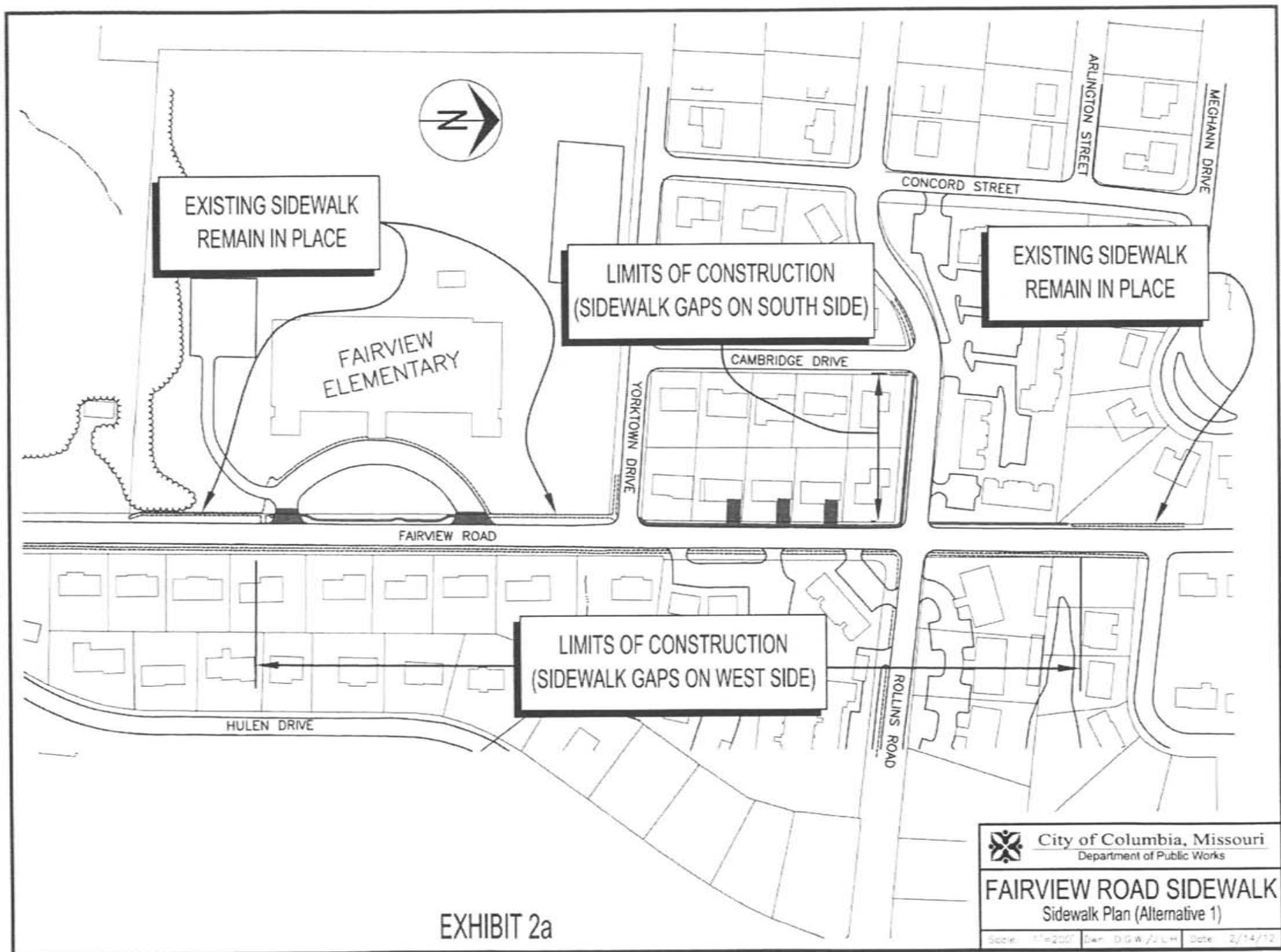

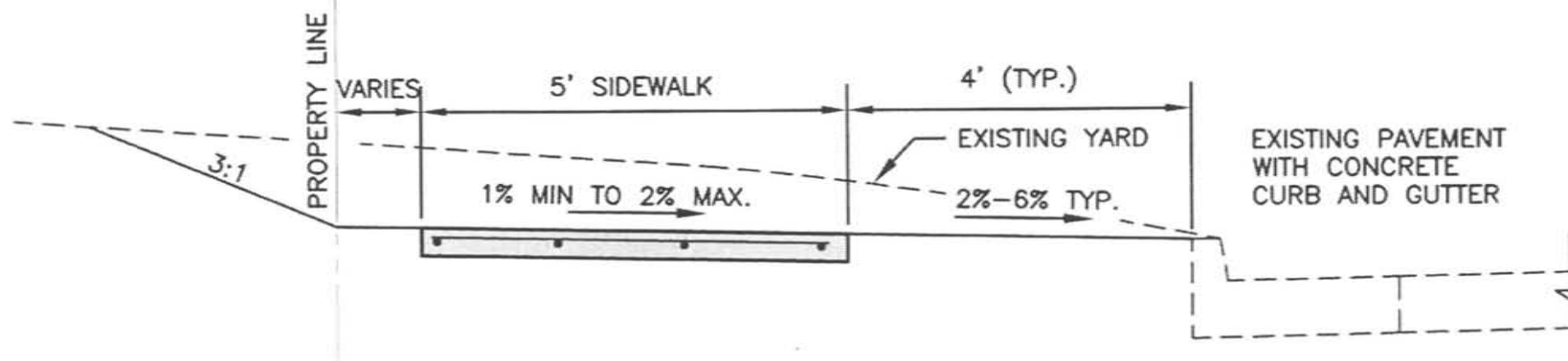
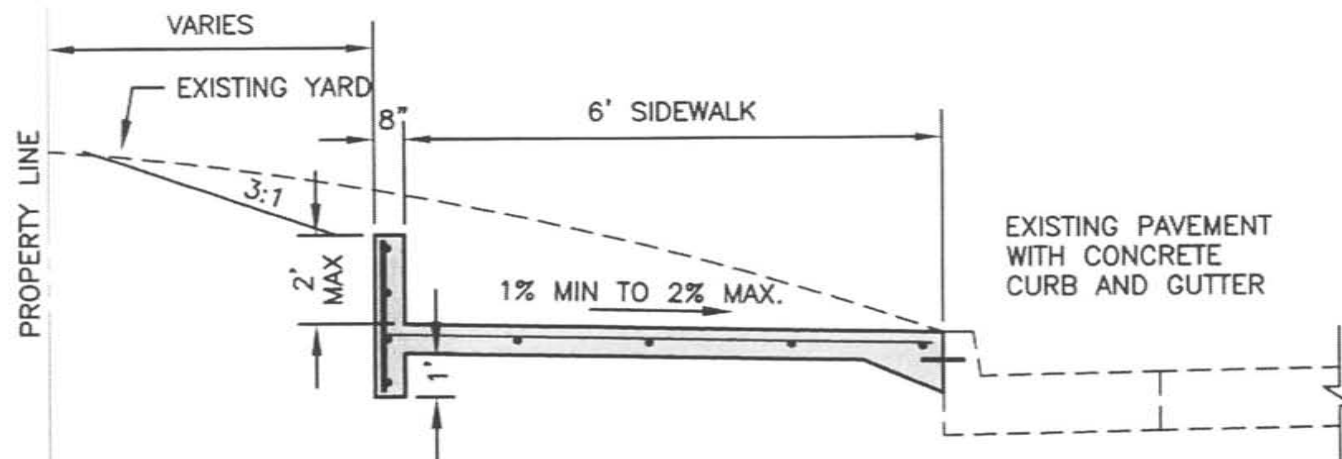


EXHIBIT 2a

	City of Columbia, Missouri		
	Department of Public Works		
FAIRVIEW ROAD SIDEWALK			
Sidewalk Plan (Alternative 1)			
Scale: 1"=200'	Draw: D.G.W./J.L.H.	Date: 2/14/12	




ALL OTHER AREAS



YORKTOWN DRIVE TO ROLLINS ROAD

EXHIBIT 2b

 City of Columbia, Missouri Department of Public Works			
FAIRVIEW RD SIDEWALK Typical Sections (Alternative 1)			
Scale	None	Drawn	Date
		D.G.W./J.L.M.	2/14/12

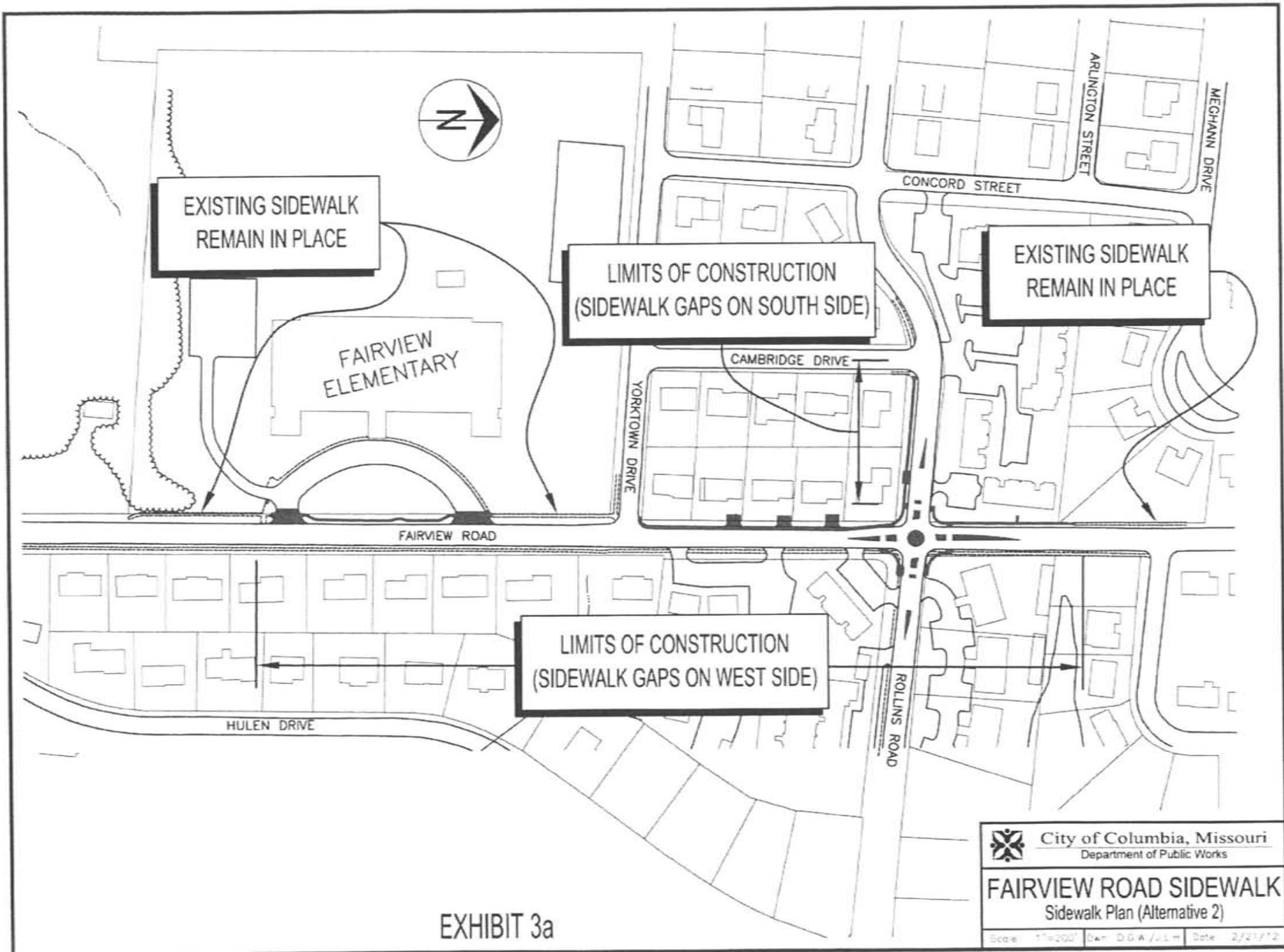

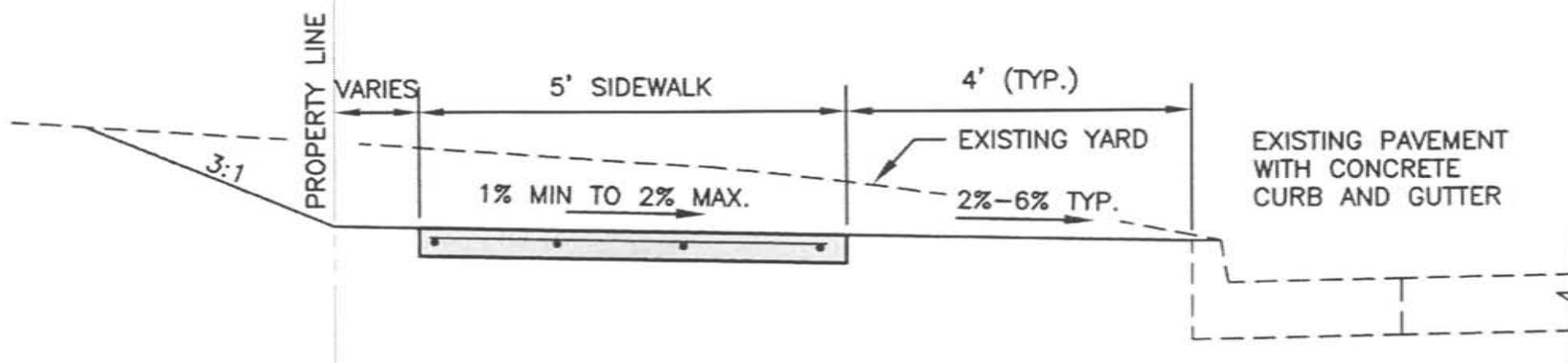


EXHIBIT 3a

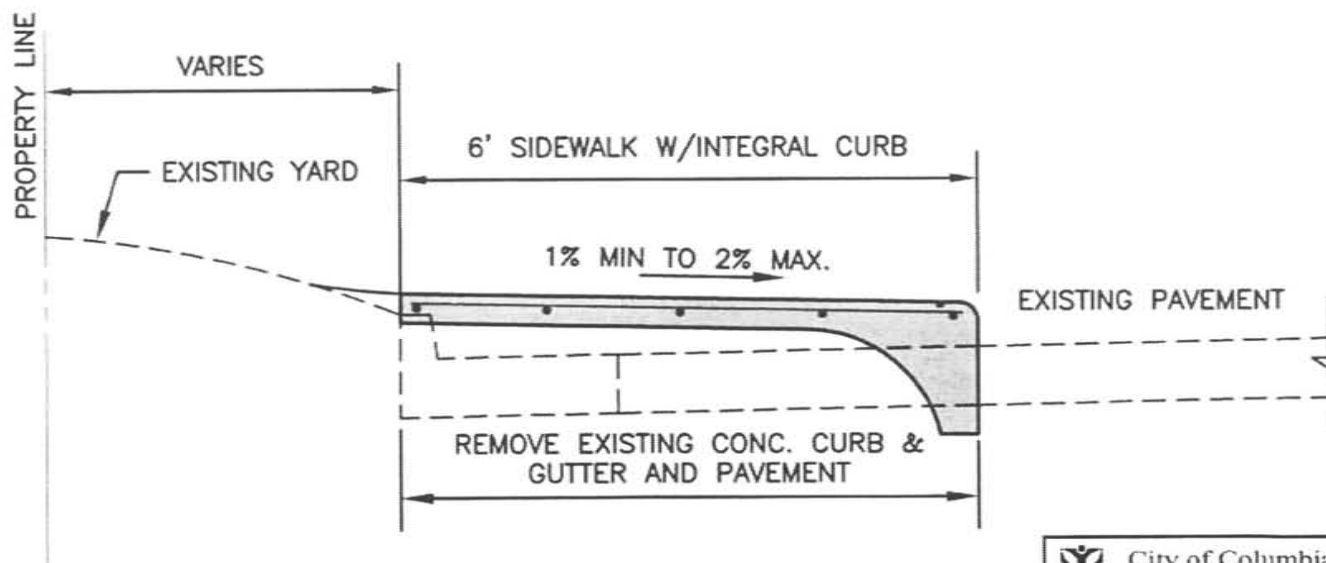

City of Columbia, Missouri
 Department of Public Works

FAIRVIEW ROAD SIDEWALK
 Sidewalk Plan (Alternative 2)

Scale: 1"=200'	Drawn: D.G.W./J.L.H.	Date: 2/21/12
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ALL OTHER AREAS



YORKTOWN DRIVE TO ROLLINS ROAD

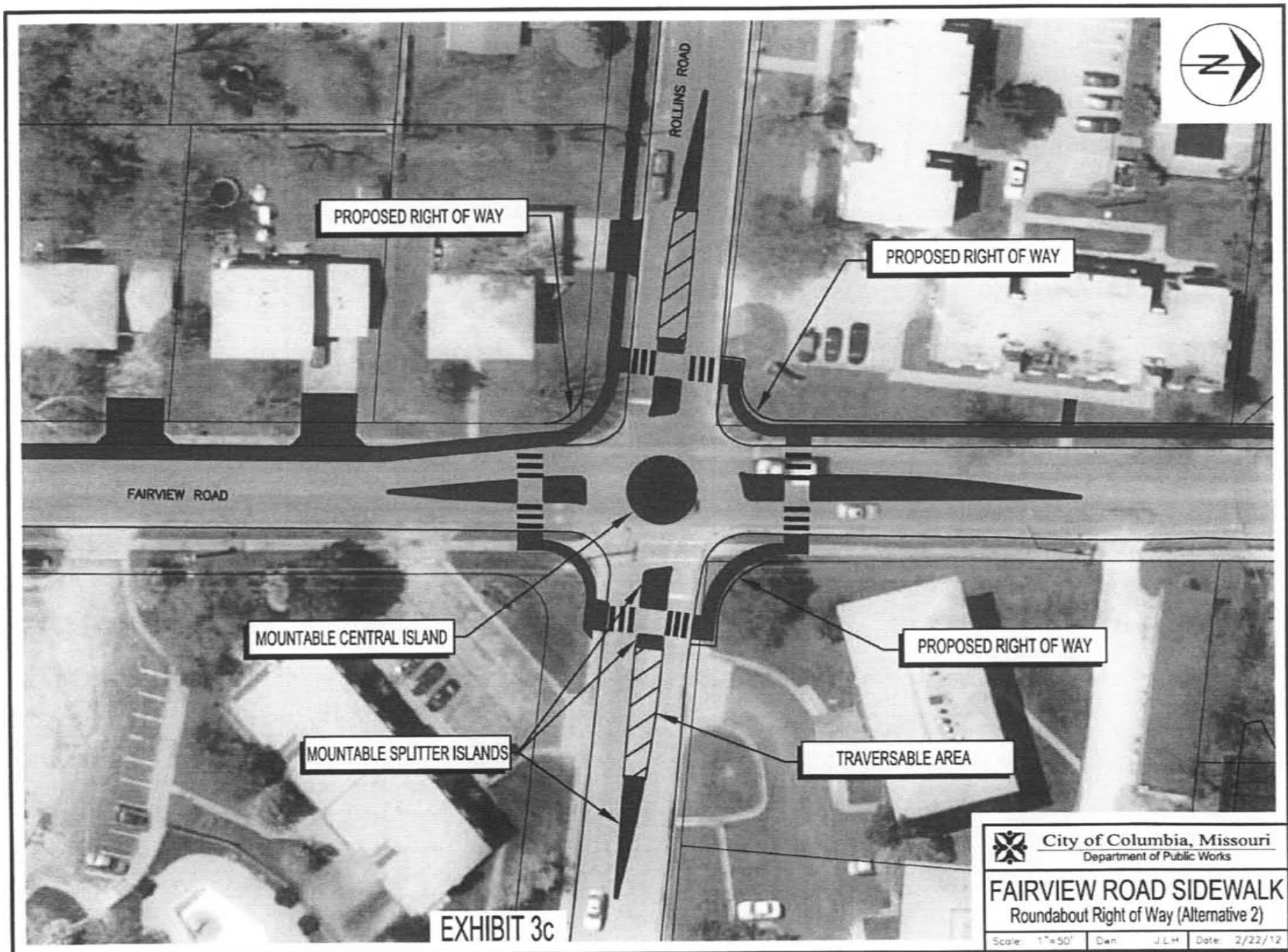
EXHIBIT 3b



City of Columbia, Missouri
Department of Public Works

FAIRVIEW RD SIDEWALK
Typical Sections (Alternative 2)

Scale: NONE Drawn: B.F.R./J.L.H. Date: 2/14/12





CITY OF COLUMBIA, MISSOURI

PUBLIC WORKS DEPARTMENT

INTER-OFFICE MEMO

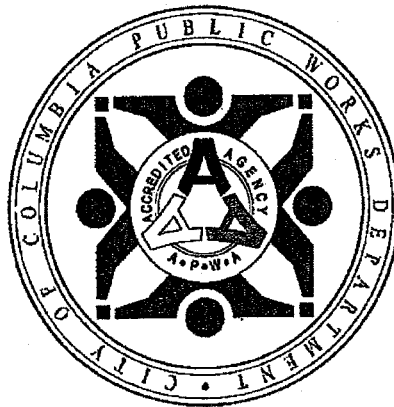
TO: David Nichols
FROM: Scott Bitterman SAB
DATE: February 9, 2012
SUBJECT: CM 3309 – Traffic Report for Rollins and Fairview

In April of 2011, Council requested a report at the intersection of Rollins Road and Fairview Road to see if a stop light was warranted. The attached report documents that the intersection of Rollins Road and Fairview Road does not meet warrants for traffic signal installation. A traffic signal should not be pursued at this time.

The report also considers what improvements could be safely made at the intersection. Modifying the intersection from an all-way stop to a mini-roundabout could enhance travel for vehicles and pedestrians. Vehicles would experience better flow through the intersection with less delay and stopping; it is estimated that 10,800 gallons of fuel per year could be saved if this intersection is converted to a mini-roundabout from an all-way stop. Pedestrians would experience safer crossing of the intersection by gaining the ability to cross one lane of traffic at a time.

A mini-roundabout should be pursued at the intersection should funds become available.

CITY OF COLUMBIA MISSOURI PUBLIC WORKS DEPARTMENT



Traffic Signal Warrant Analysis and Recommendations

at

Fairview Road and Rollins Road

Prepared by:
Sam Budzyna, E.I.T.
January 4, 2012

Background

Staff was directed by Council to evaluate the intersection of Fairview Road and Rollins Road to determine whether signalized control should be pursued. The purpose of placing any traffic control device should be to provide valuable information and/or to have a reasonable chance of lowering collisions or the severity of collisions should they occur.

The intersection does not meet the Manual on Uniform Traffic Control Devices (MUTCD) warrants for signalization. Another option, considered in this report, is a mini-roundabout. A mini-roundabout is a single lane roundabout, usually constructed within the existing roadway, with fully-mountable central island and medians.

Data

VEHICLE & PEDESTRIAN VOLUME

The entering vehicle-bicycle-pedestrian count per day at the intersection is approximately 18,000 units per day. During peak conditions, the main street (Fairview) volume averages approximately 750 combined pedestrian, bicycle and vehicle units per hour. During the same peak time periods the minor street (Rollins) volume averaged approximately 340 combined pedestrian, bicycle and vehicle units per hour

The predominant movements are north and south along Fairview.

The typical pedestrian volume during the peak periods is on the order of 20 pedestrians in peak conditions and 1 to 5 at other times.

Fuel consumption & emissions

The estimated projected fuel consumption differences between the existing all way stop and the mini-roundabout optional conditions were estimated using VISSIM v5.3 modeling¹ and conversions to yearly use based on conservative conversion estimates using Institute of Transportation Engineers (ITE) calculations and other resources:

	All-Way Stop	Mini-roundabout
Run	Fuel Used (gallons)	Fuel Used (gallons)
Run 1	14.48	5.96
Run 2	9.69	4.98
Run 3	8.43	5.23
Run 4	10.06	5.21
Run 5	15.28	5.73
Average peak hour:	11.6	5.4

¹Average of five discrete simulations using VISSIM, traffic simulation software

Difference in fuel use mini-roundabout for peak hour	-6.2 gallons
Projected difference in fuel use mini-roundabout per year	-10800. gallons

Unfortunately definitive industry accepted standard equations for fuel use are not currently available. VISSIM is generally considered to provide reasonable data for a wide variety of vehicle types and locales. Several Federal Highway Administration (FHWA), Oak Ridge National Laboratory and ITE efforts are currently being pursued to provide better tools for assessing fuel consumption and emission calculations and associated health costs and benefits. As further research is developed, better information should be available. At this time, the fuel consumption data should be viewed as reliable for indicating the general trend in fuel use (either more or less) and order of magnitude estimate, than in providing exact projections.

Discussion

Fairview Road is classified as a Major Collector street in the Major Thoroughfare Plan. Rollins Road is classified as a Neighborhood Collector Street. Fairview Road (north-south) intersects Rollins Road (east-west) in cross fashion. The intersection is a standard cross intersection without significant skew, currently controlled by an all-way stop. Sight distance in all directions is adequate. There are no other stop controlled crossings on Rollins or Fairview within one half mile in any direction.

There are many well-established single family residences east, west, north and south of the intersection. It is unlikely that there will be additional development in the area. Fairview Elementary School is located one block south of the intersection. There is a marked crosswalk across Rollins across the eastern leg of the intersection. A location map is attached.

For signalized control, the MUTCD outlines two circumstances which would warrant a signal based on volume. For a standard intersection with one lane in every direction, the first possibility specifies that one of two conditions must be met: The major and minor street volumes must both be greater than 500 and 150 vehicles per hour, respectively, or the volumes must be greater than 750 and 75 vehicles/hour, respectively. These volumes must be met for any eight hours of an average day. The intersection of Fairview Road and Rollins Road only meets each of these volume requirements for three hours per day.

The second possibility to warrant a signal at this intersection based on volume specifies that both of the following conditions must be met: The major and minor street volumes must both be greater than 350 and 105 vehicles per hour, respectively, and 525 and 52 vehicles per hour, respectively. These volumes must also be met for any eight hours of an average day. The first condition is never satisfied during an average day, and the second condition is satisfied for only four hours per day.

The intersection also does not meet the MUTCD collision warrants for signalized control. With four collisions in 36 months, the intersection is well below the collision warrant of five collisions in 12 months.

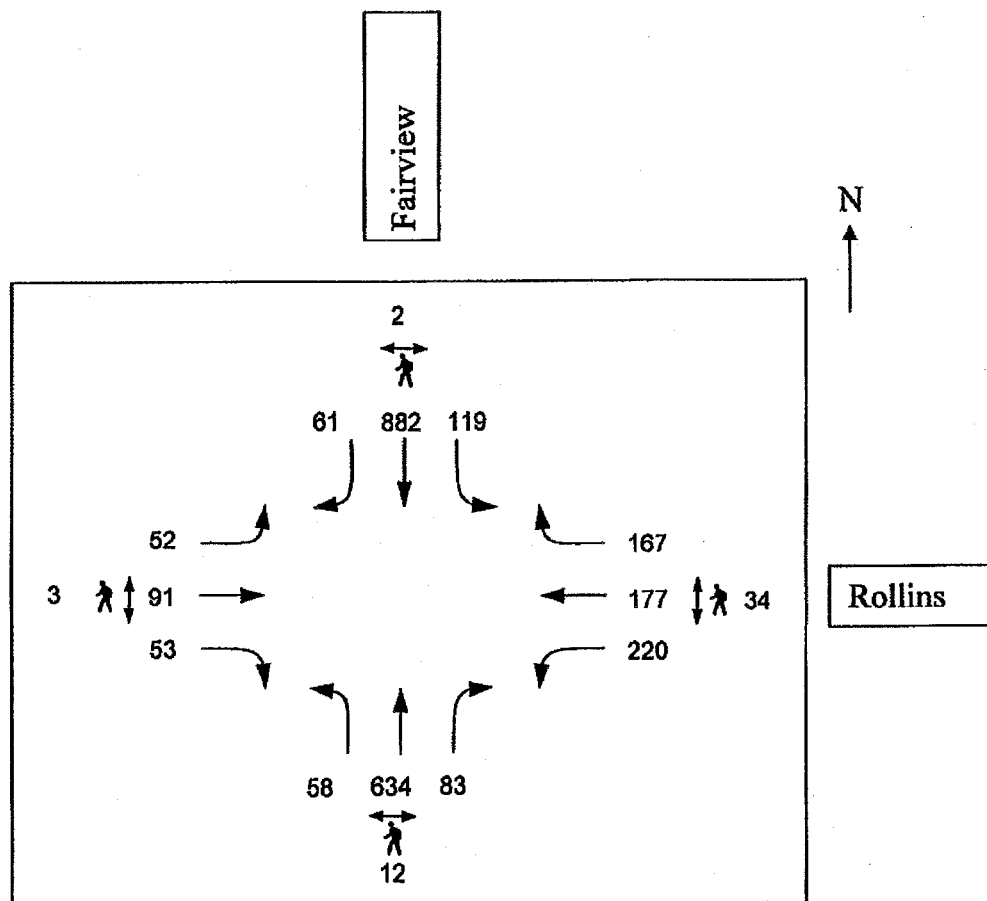
To improve the intersection, the option of a mini-roundabout could also be considered. A mini-roundabout would include fully-mountable central island and medians. It would reduce fuel consumption by nearly 50% and improve the flow of traffic through the intersection. A mini-roundabout would also include upgraded crosswalks, to enhance pedestrian travel. The crosswalks would be away from the intersection and would allow pedestrians to cross one lane at a time, with a safety island between lanes. This is especially beneficial for children that lack the confidence to effectively cross a high volume all-way stop. A diagram is attached.

Experience with mini-roundabouts is limited in the United States; therefore the MUTCD does not currently define parameters for warranting a mini-roundabout. However, the Federal Highway Administration (FHWA) Office of Safety Research and Development offers design review and field analysis of mini-roundabouts, for which the intersection of Fairview and Rollins would be eligible. The purpose of the FHWA's program is to gain a better understanding of the operation of mini-roundabouts in the United States and to use that knowledge to enhance design criteria for future mini-roundabouts.

Conclusion

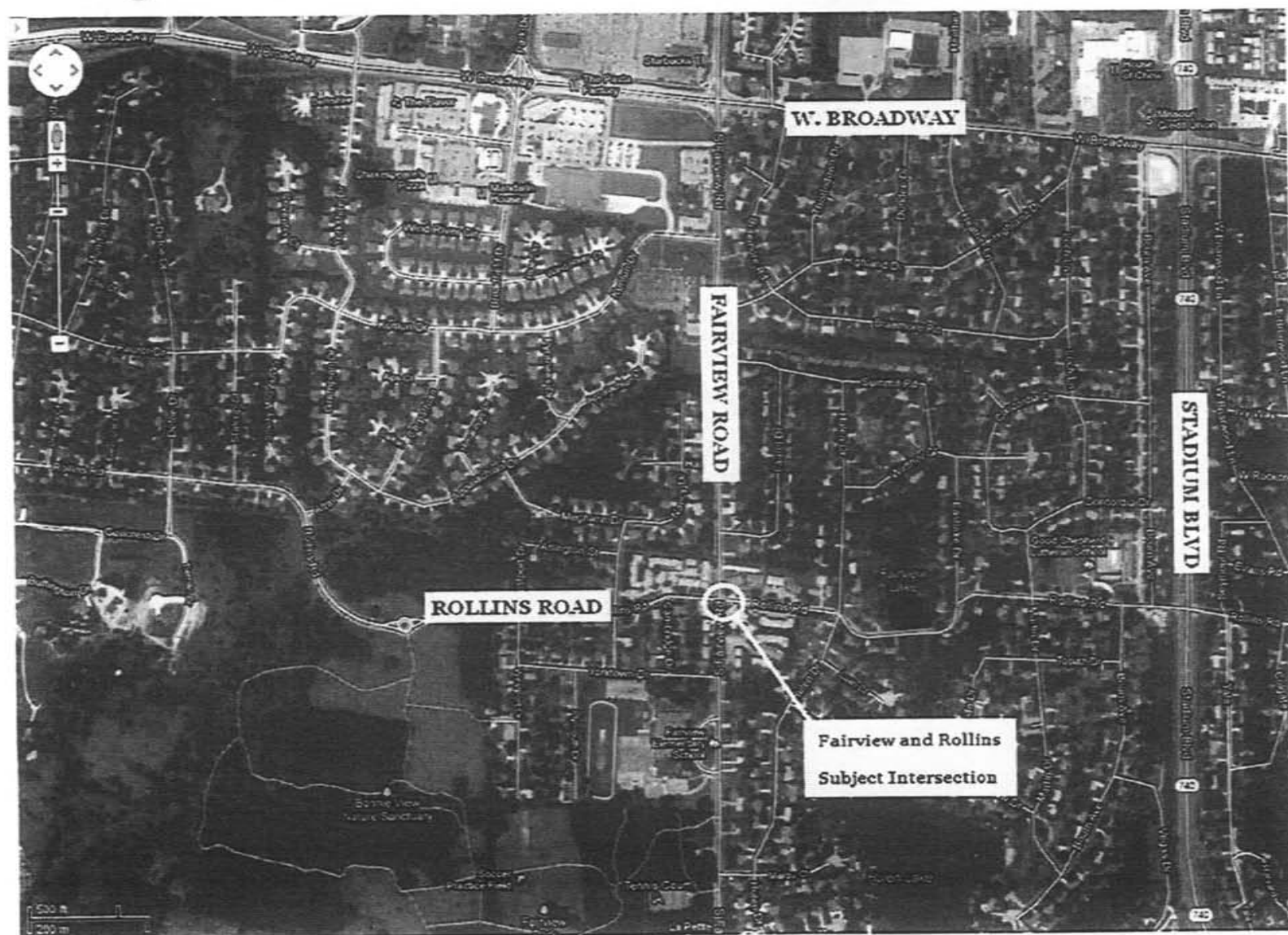
The intersection of Fairview and Rollins does not meet the MUTCD warrants for signalized control. Modifying the intersection from an all-way stop to a mini-roundabout could enhance travel for vehicles and pedestrians. Vehicles would experience better flow through the intersection with less stopping, and decreased fuel consumption. Pedestrians would be able to cross one lane at a time with a safety island, away from the intersection. However, modification probably will not lead to a significant reduction in overall collisions.

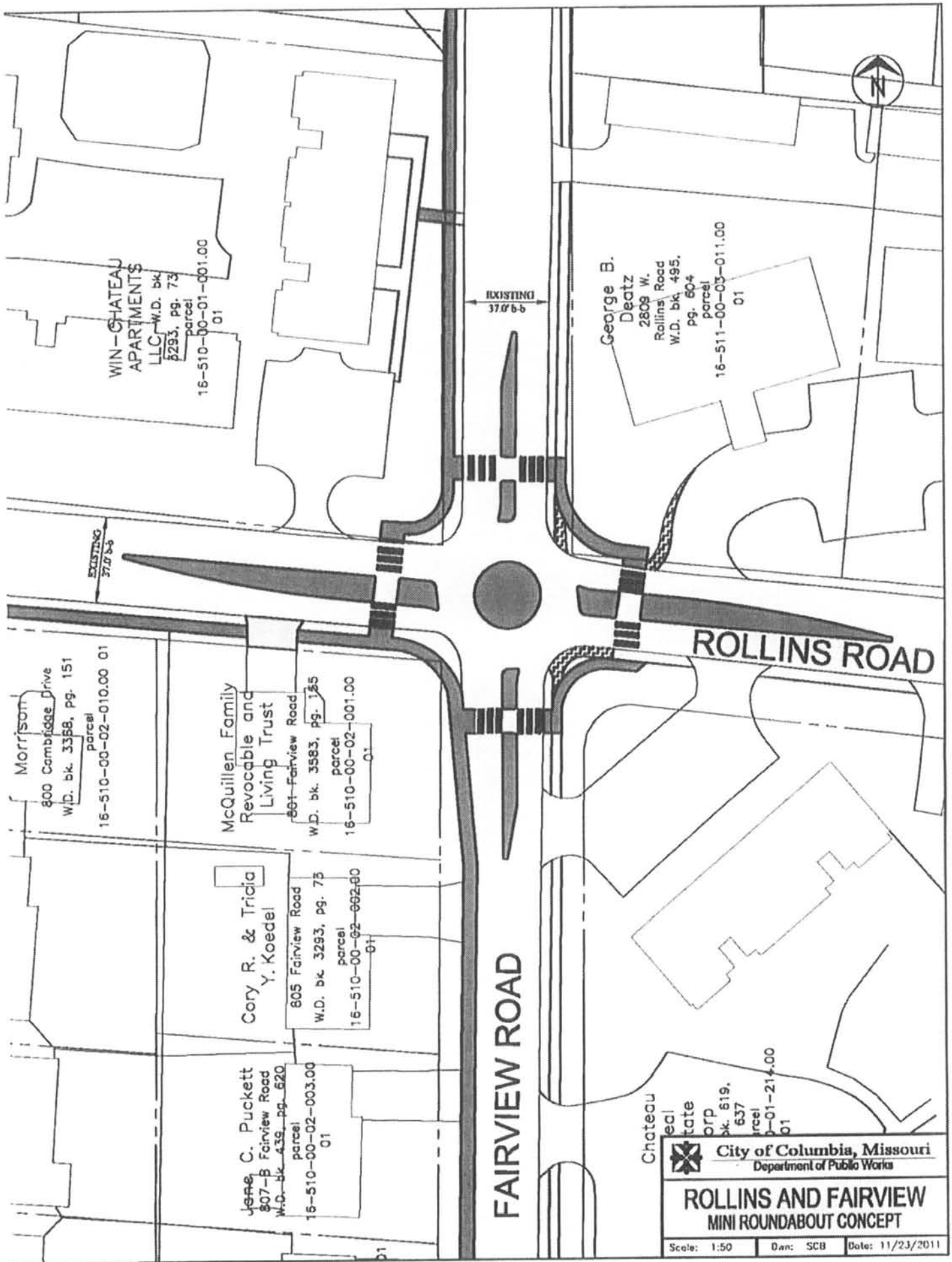
	Fairview					Rollins					Fairview					Rollins				
	Fairview from north (vehicles)			Ped crossing north leg	Rollins from east (vehicles)			Ped crossing east leg	Fairview from south (vehicles)			Ped crossing south leg	Rollins from west (vehicles)			Ped crossing west leg				
	left	thru	right		left	thru	right		left	thru	right		left	thru	right					
Peak hour	50	380	23	0	120	88	87	19	30	276	31	0	19	31	24	0				
Peak 8 hour	119	882	61	2	220	177	167	34	58	634	83	12	52	91	53	3				
Sum total 8 hour	1064				598				787				199							
Fairview average per hour (nearest 10)	230																			
Rollins average per hour (nearest 10)	100																			



Eight Hour Volumes

Google





Introduced by McDavid Council Bill No. R 30-12

A RESOLUTION

declaring the necessity for construction of sidewalks along the west side of Fairview Road from Fairview Elementary School to north of Rollins Road, and along the south side of Rollins Road from Fairview Road to Cambridge Drive, and construction of a mini roundabout at the intersection of Fairview Road and Rollins Road; 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 sidewalks and other miscellaneous work, all in accordance with the City of Columbia Street and Storm Sewer Specifications and Standards, along the west side of Fairview Road from Fairview Elementary School to approximately 220 feet north of Rollins Road, and along the south side of Rollins Road from Fairview Road to Cambridge Drive, and construction of a mini roundabout at the intersection of Fairview Road and Rollins 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 \$500,000.00.


SECTION 4. Payment for this improvement shall be made from Capital Improvement Sales Tax 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 April 2, 2012. The City Clerk shall cause notice of this hearing to be published in a newspaper published in the City.

ADOPTED this 5th day of March, 2012.

ATTEST:

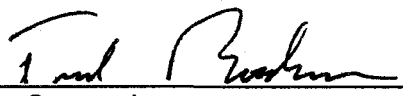


City Clerk



Mayor and Presiding Officer

APPROVED AS TO FORM:



City Counselor