

Source: Public Works

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Agenda Item No: REP 1-13

To: City Council

From: City Manager and Staff

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Council Meeting Date: Jan 7, 2013

Re: Northland Drive from Blue Ridge Road to Parker Street (CM #3738)

EXECUTIVE SUMMARY:

Staff has prepared for Council consideration a report regarding improvements to Northland Drive from Blue Ridge Road to Parker Street (see attached location map).

DISCUSSION:

Council requested staff look at Northland Drive regarding its proximity to affordable housing, blind corners, traffic speed, and sidewalks. Northland Drive is classified as a Neighborhood Collector on the current CATSO Major Roadway Plan. Its length is approximately 4,100 feet, and extends south from Blue Ridge Road, makes a 90-degree turn towards the east, and terminates at Parker Street. Northland Drive is currently an unimproved street with roadside ditches and approximately 18 to 20-foot-wide pavement. As an exception, a 350-foot section of the Bear Creek Trail was recently constructed along the east side of Northland Drive, consisting of a concrete sidewalk at the back of the curb. Northland Drive currently has a 50-foot right-of-way width.

Staff recommends reconstructing the entire roadway to current standards. The proposed typical section, Neighborhood Collector Option "B" (attached), includes a 60-foot right-of-way, plus 10-foot utility easements on both sides, two 15-foot travel lanes, and 5-foot sidewalk on both sides of the road. As an exception, staff anticipates constructing sidewalk only on the east side of the road, for the area north of the Bear Creek Trail, due to the proximity of a concrete-lined drainage channel on the west side of the road, and the limited width of the existing triple box culvert, which is anticipated to remain in place.

FISCAL IMPACT:

Approximately \$3,775,000 would need to be budgeted for a future CIP project to reconstruct Northland Drive. This includes \$2,695,000 for construction, \$525,000 for easement acquisition, \$150,000 for utility relocations, and \$405,000 for engineering administration and design. A preliminary cost estimate spreadsheet is attached.

VISION IMPACT:

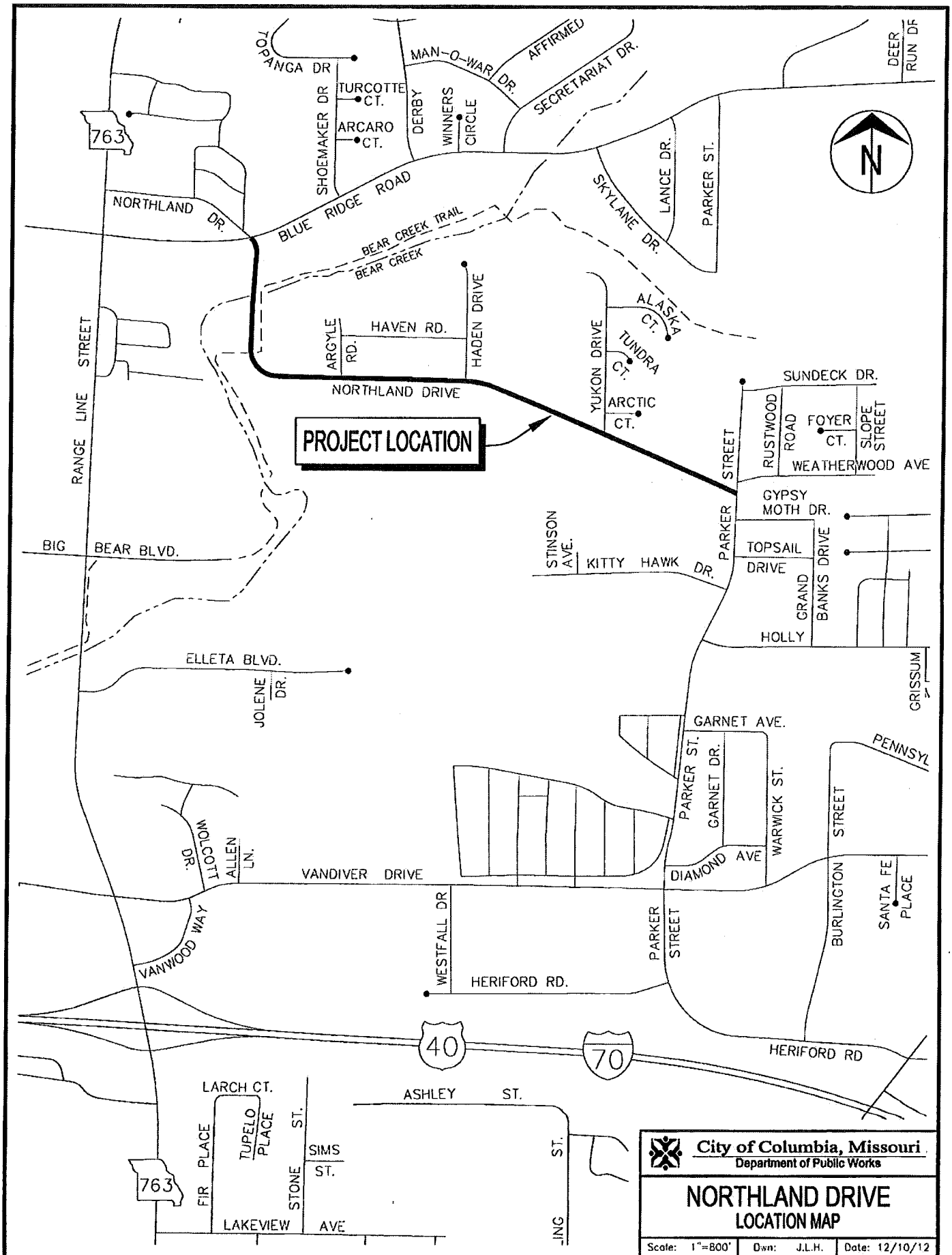
<http://www.gocolumbiamo.com/Council/Meetings/visionimpact.php>

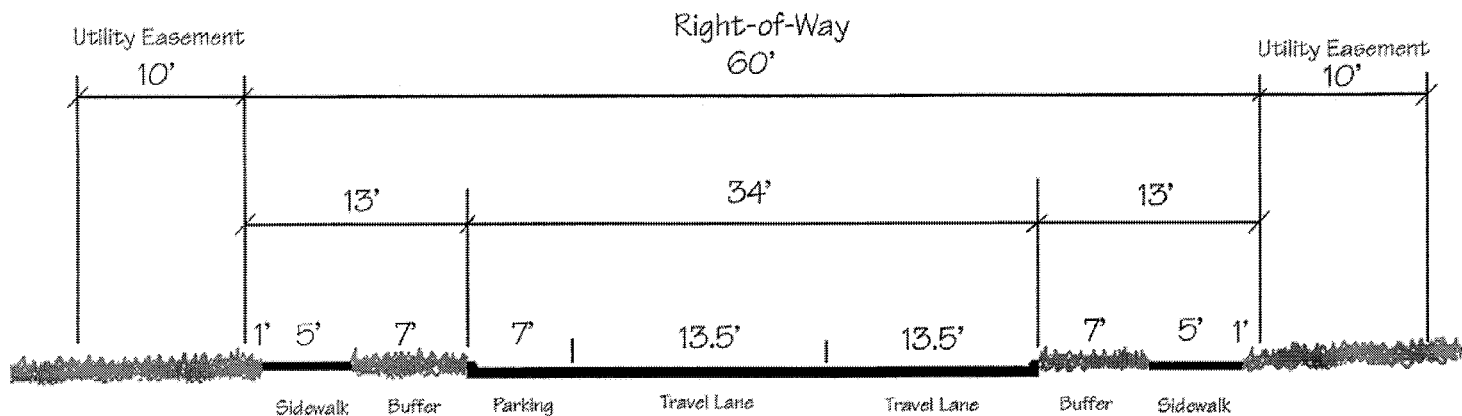
A network of safe roadways in and around the City will provide sustainable, efficient mobility to vehicular travel and other modes in a complimentary manner.

SUGGESTED COUNCIL ACTIONS:

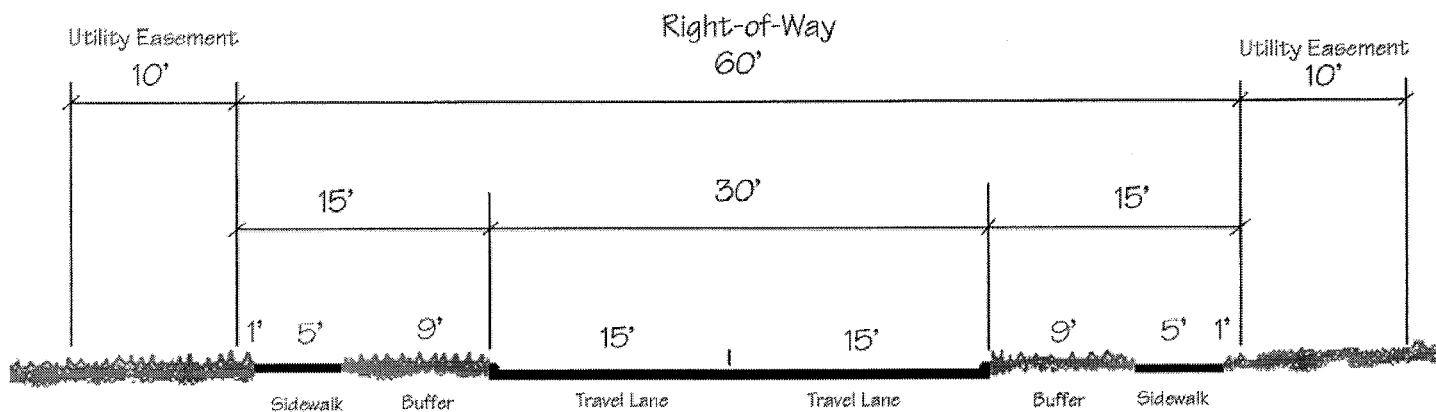
If Council agrees with the improvements as recommended above, staff should be directed to add Northland Drive as a future CIP project.

FISCAL and VISION NOTES:					
City Fiscal Impact Enter all that apply		Program Impact		Mandates	
City's current net FY cost	\$0.00	New Program/ Agency?	No	Federal or State mandated?	No
Amount of funds already appropriated	\$0.00	Duplicates/Epands an existing program?	No	Vision Implementation impact	
Amount of budget amendment needed	\$3,775,000.00	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 #	13.3
		Requires add'l capital equipment?	No	Fiscal year implementation Task #	





Neighborhood Collector 'Option A'



Neighborhood Collector 'Option B'

Neighborhood Collectors

Preliminary Cost Estimate - Northland Drive (Blue Ridge to Parker)

December, 2012

By R. Kaufmann, Columbia Public Works Department

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Construction	ITEM DESCRIPTION	CITY'S ESTIMATE			
		UNIT	QUAN	UNIT COST	TOTAL COST
	Removal of Existing Pavement	SY	9,000	12.00	108,000.00
	Earthwork	LS	1	200,000.00	200,000.00
	4" Aggregate Base	SY	14,200	6.00	85,200.00
	7" PCC Street Pavement w Integral Curb	SY	13,700	40.00	548,000.00
	4" Reinf. PCC Sidewalk Pavement Incl. Ramps	SF	38,000	5.00	190,000.00
	6" PCC Residential Driveway Pavement	SY	3,500	40.00	140,000.00
	Storm Drainage Structures	EA	30	5,000.00	150,000.00
	Storm Pipe	LF	3,000	60.00	180,000.00
	Storm Pipe End Sections	EA	25	1,000.00	25,000.00
	Storm Outfall Scour Protection	SY	350	40.00	14,000.00
	Permanent Water Quality BMPs	LS	1	250,000.00	250,000.00
	Mobilization	LS	1	150,000.00	150,000.00
	Construction Staking	LS	1	65,000.00	65,000.00
	Seeding & Mulching	LS	1	40,000.00	40,000.00
	Erosion Control	LS	1	100,000.00	100,000.00
	Temporary Traffic Control	LS	1	100,000.00	100,000.00
	Signage	LS	1	10,000.00	10,000.00
	Pavement Marking	LS	1	20,000.00	20,000.00
	Street Lighting	LS	1	75,000.00	75,000.00
	Sub-total Construction Estimate :				\$2,450,200.00
	Contingency (10%)				245,000.00
	Sub-total Construction Estimate w/ Contingency:				\$2,695,200.00

Easements	ITEM DESCRIPTION	CITY'S ESTIMATE			
		UNIT	QUAN	UNIT COST	TOTAL COST
	Temporary Const. Easement	SF	100,000	1.50	150,000.00
	Permanent Street Easement	SF	50,000	3.00	150,000.00
	Permanent Utility or Drainage Easement	SF	150,000	1.50	225,000.00
	Sub-total Easement Estimate :				\$525,000.00

Utility Relocation	ITEM DESCRIPTION	CITY'S ESTIMATE			
		UNIT	QUAN	UNIT COST	TOTAL COST
	Utility Relocation	LS	1	150,000.00	150,000.00
	Sub-total Utility Rel. Estimate :				\$150,000.00

Design & Administration	ITEM DESCRIPTION	CITY'S ESTIMATE			
		UNIT	QUAN	UNIT COST	TOTAL COST
	Engineering, Administration, Constr. Phase etc. (approx. 15% of Construction Estimate)				405,000.00
	Sub-total Design & Admin. Estimate :				\$405,000.00

Total Preliminary Cost Estimate :	\$3,775,200.00
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