



Board Summary Report

Date: January 31, 2019

To: Board of County Commissioners

Through: Bryan Weimer, Director Public Works and Development

Through: Brian R. Love, Interim Transportation Division Manager

From: Jon Williams, Capital Improvement Program Engineer

Subject: **C15-022 & C15-023; QUINCY AVENUE /GUN CLUB ROAD INTERSECTION IMPROVEMENT, APPROVAL OF CONSTRUCTION FUNDING AGREEMENT (IGA) BETWEEN ARAPAHOE COUNTY AND THE CITY OF AURORA (COA) FOR AN INITIAL AMOUNT OF \$3,654,000.00**

Request and Recommendation

This Summary Report requests approval of and a resolution for the Quincy Avenue / Gun Club Road Intersection improvement project Intergovernmental Agreement (IGA) between Arapahoe County and the City of Aurora for cost sharing of construction funding. This IGA is specifically for the City of Aurora’s share of the construction project. This specific action/IGA has not previously been heard by the BOCC at a study session or drop-in. However, the BOCC is aware of the project as it was submitted to the Denver Regional Council of Government (DRCOG) Transportation Improvement Program (TIP) for federal funding process in 2014 and the BOCC was part of those decisions and the project funding requirements associated with the federal funds. Additionally the BOCC heard and approved an associated IGA with the Colorado Department of Transportation to fund project construction costs for this intersection in October 2015.

Staff requests approval from the BOCC to enter into an Intergovernmental Agreement (IGA) with the City of Aurora (COA) regarding the construction of the Quincy Avenue and Gun Club Intersection Improvement Project to meet federal requirements in the initial IGA amount of \$3,654,000.00. Specifically, Staff requests the following actions.

1. Approval of the attached Intergovernmental Agreement with COA, for an Initial IGA amount of \$3,654,000.00. With this action there is a breakdown of 50% cost sharing both between the County and Aurora in Local Agency funding with an additional total not to exceed amount of \$4,892,000.00 in Federal funds. The IGA identifies the payment to the County for the COA share of the initial construction cost, with funding to supplement the \$3,654,000.00 to be provided by the COA with the 2020 budget package.

2. Authorization of the Board of County Commissioner Chair to sign the IGA and include the associated resolution approving this agreement in the IGA.

3. Authorization to invoice and receive funding in accordance with contractual obligations.

Background

Based traffic counts, the Quincy Avenue and Gun Club Road intersection currently operates at a Level of Service F during peak hours. It is not unusual to observe a queue of southbound traffic to nearly Hampden Avenue, roughly a mile away from the intersection. Currently, all roadways leading into the intersection are two lane non-curb and gutter roadways. In 2009, Felsburg, Holt & Ullevig Inc. performed a preliminary design on the intersection to accommodate long term growth projections for the area. A Partial Continuous Flow Intersection (PCFI) was determined to be the preferred solution for the intersection and both Quincy Avenue and Gun Club were projected to need 6 through lanes. This project will build an interim improved PCFI that will have 4 through lanes on all legs with the capability to add the additional through lanes in the future as traffic warrants.

Various jurisdictions control the roadway approaches to the Quincy Avenue and Gun Club Road intersection. Arapahoe County has jurisdiction over the south leg of the intersection. The north leg of the intersection falls under the jurisdiction of CDOT (Region 1) as State Highway 30. The City of Aurora has jurisdiction over Quincy Avenue. The DADS landfill is located on the northeast corner of the intersection and is considered a Superfund site owned by the City and County of Denver and operated by Waste Management via permit from Arapahoe County, XCEL Energy owns the property directly adjacent to the intersection on the southeast corner of the intersection. The Lowery Environmental Protection Trust Funds owns the property adjacent to XCEL on the south side of Quincy and also the property on the northwest corner of the intersection. Arapahoe County owns the property on the southwest corner.

In the Fall of 2014 Arapahoe County submitted a 2016-2021 Transportation Improvement Program (TIP) Application to DRCOG for the Quincy Avenue / Gun Club Road intersection in the amount of \$12,700,000. The project was identified to receive \$4,892,000.00 of federal CMAQ funds via the Phase II funding process of the DRCOG TIP. In April of 2015, DRCOG approved funding for this intersection improvement in the amount of \$4,892,000.00 of federal funds and \$7,808,000 local match for a \$12.7M project.

Links to Align Arapahoe

Quality of Life-

This project will improve safety and reduce congestion at the intersection of Quincy Avenue and Gun Club Road. In addition, the project has a bike and pedestrian element as part of the project, which fosters a healthier County. As the infrastructure in the County is improved, the vibrancy of the County is improved. Also, air quality is improved via the use of alternative modes and reduction in greenhouse gases due to congestion.

Fiscally Responsible –

Using outside (Federal, City of Aurora, Open Spaces, and SEMSWA) funding leverages the use of County dollars for needed public infrastructure improvements, which allows the County dollars to be stretched further. Also, investments in County infrastructure improvements the County’s economic environment by reducing direct costs of safety incidents, lowering costs of delay caused by congestion, and increases accessibility which has been shown to be critical in economic development.

Service First

This project will improve access to County services and facilities. In particular, the Quincy/Gun Club project will provide accessibility to the County Fairground facilities, will improve the incident management capabilities for the fairground facilities, and provide accessibility to other public facilities (ie Aurora Reservoir, Aurora’s new police and fire training facility, and sheriff’s training facility). Also, the project provides customer excellence to the user of these facilities as they enhance the use, operation, and experience of the facilities.

Discussion

Final Design layout that achieves Federal Design Standards was initiated in early 2016 for the Quincy Avenue / Gun Club Road Partial Continuous Flow Intersection Project. The intersection improvements will extend from the southbound E-470 ramps on Quincy Avenue to 1,800 feet east of the Gun Club Road and 2,200 feet both north and south of Quincy Avenue on Gun Club Road. This is approximately 500 feet longer on each leg than originally anticipated with the TIP Application, and is necessary to facilitate safer merge zones.

A number of design iterations were necessary to facilitate the needs of the County, CDOT, the City of Aurora, federal requirements, and SEMSWA with each jurisdiction identifying specific needs and goals desired for their desired standard. In the end a cooperative effort was able to facilitate most of the varied interests as necessary to achieve a completed plan package.

The project is currently in the process of receiving final authorization to go to bid by CDOT. Once the project receives final approval for bid the County will proceed to advertise and bid the project with the intent of beginning construction in Spring of 2019. The project construction is anticipated to take 15 months. The \$3,654,000 Aurora funding share will be used as a 50% Local Agency match to supplement the remaining 50 % Arapahoe County share and \$4,892.000 in Federal funds.

Funding

The following breakdown identifies the overall project cost commitments anticipated.

	Expenditures federally reimbursable (80%)	Expenditures non federally reimbursable
Construction Management Services-	\$968,000.00	
Wetland Mitigation Credit-		\$ 36,200.00
DADS Monitoring Well relocation-		\$ 12,124.00
ECCV Water line relocation- (Estimated)		\$875,000.00
Benesch Construction Management addendum 1		\$ 36,220.00
Felsburg Holt & Ullevig Addendums 10 and 11.		\$233,497.75
Right of Way and Easement Acquisition:		
E-470 Authority,	\$ 1,700.00	
Public Service Company of Colorado,	\$ 993.00	
Lowry Environmental Protection Cleanup Trust,	\$82,520.00	
Quincy East Commercial,	\$ 850.00	
Reimbursement Appraisal Services for Lowry Trust		\$12,500.00
Project Construction (Estimated)	\$13,864,892.00	
TOTAL	\$14,918,955.00	\$1,205,541.75

3% IGA Contingency	\$ 483,734.90
Project Cost Grand Total	\$16,608,231.65
Total Federal Reimbursable Funds	\$4,892,000
Total Local Agency Funds	\$11,716,231.65
Anticipated Arapahoe County Local Match	\$5,858,115.82 (50% Local Agency)
Anticipated City of Aurora Local Match	\$5,858,115.83 (50% Local Agency)

To date the County has fronted cost sharing funds on behalf of the City of Aurora for certain items to move the project forward. A portion of the \$3,654,000 COA payment will be deposited as a reimbursable expense.

The staffs of both City of Aurora and Arapahoe County Public Works Department have worked together to develop the funding IGA. On December 13, 2018 the City of Aurora signed and approved the IGA. The County’s Public Works CIP staff recommends endorsement of the Agreement with the City of Aurora participation in the project.

Alternatives

As far as this action (approval of the IGA with COA), the alternatives are as follows:

1. Approve the IGA with the City of Aurora for a portion of their share towards the federalized project construction and reimbursement of their share of previously expended funds towards the project. As discussed above, this IGA will be amended once projects costs are more defined with additional funding to follow in the COA 2020 budget to reflect the sharing of the local match to the federal dollars between City of Aurora and Arapahoe County.
2. Not approve the IGA, which would require the County to terminate the design and construction and would trigger the return of federal funds for the project.

Staff recommends Alternative #1 above.

Fiscal Impact

As previously mentioned the anticipated cost of construction of the Quincy Avenue and Gun Club Road Intersection Improvements will total \$16,606,450.75. Prior to submission of the TIP Application to DRCOG The City of Aurora agreed to share 50% of the local agency match for the Project, and CDOT was unwilling to contribute funds to the intersection to date.

The IGA establishes how Aurora will pay the County. The City of Aurora will deposit \$3,654,000.00 for the anticipated construction costs with the County. **This cost center will not accrue interest.** Additional funding will be requested to account for the remaining COA budget shortfall next year.

Portions of the Arapahoe County funds will be supplemented by Open Spaces contributions for the pedestrian box culvert crossing, and SEMSWA contributions for installation of a portion of the box culvert. An IGA has been executed with SEMSWA for \$300,000.

A separate Cost Center for the City of Aurora’s contribution to the project has been established as follows. Funding from the City will be placed in this Cost Center and expenditures for the project will be

partially paid from this Cost Center for the City's share and the County's share will be paid from the County's identified Cost Center (424515022).

City of Aurora Share 424515024-54895 (C15-024, Quincy/Gun Club
Intersection-Aurora Share)

Once funds are received from the City, they shall be deposited into

424515024-46700 Revenue

Once the funds are recognized as revenue that shall be deposited into the following expenditure account;

424515024-54895 Expenditure

Concurrence

The City or Aurora, CDOT, developers, Open Spaces, and SEMSWA have all been part of the on-going discussion regarding improvements at this intersection. These entities have all been supportive of the recommendations.

Attorney Comments

The County's Attorney's Office has reviewed the IGA and recommends approval.

Reviewed By:

Jon Williams, Staff
Bryan Weimer, Department Director
Brian Love, Interim Division Manager
Todd Weaver Finance Department
Robert Hill, Assistant County Attorney

cc: **Email**

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File (C15-022)
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Agenda Notebook

Hard Copy

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