

SMART SCALE AT-RISK PROJECT BRIEFING

Commonwealth Transportation Board

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February 19, 2020

Projects Requiring CTB Action

- **Safety Improvements to Route 122 at Route 636 Intersection**
 - **UPC 109287 - Salem District**
 - **Budget Increase Request**
- **Hollins Rd and Orange Avenue Intersection Improvements**
 - **UPC 111370 - Salem District**
 - **Transfer Request**
- **I-64 Ramp Signalization at Ashland Road**
 - **UPC 109313 - Richmond District**
 - **Cancellation Request**

SMART SCALE Policy

CTB Policy for Scope Changes and/or Budget Increases, February 2018

- A project that has been selected for funding must be re-scored and the funding decision re-evaluated if there are significant changes to either the scope or cost of the project, such that the anticipated benefits relative to funding requested would have substantially changed.
- If an estimate increases prior to project advertisement or contract award that exceeds the following thresholds, and the applicant is not covering the increased cost with other funds, Board action is required to approve the budget increase:
 - » i. Total Cost Estimate <\$5 million: 20% increase in funding requested
 - » ii. Total Cost Estimate \$5 million to \$10 million: \$1 million or greater increase in funding requested
 - » iii. Total Cost Estimate > \$10 million: 10% increase in funding requested; \$5 million maximum increase in funding requested

SMART SCALE Project Cancellation

SMART SCALE Policy, February 2018

- A project that has been selected for funding must be initiated and at least a portion of the programmed funds expended within one year of the budgeted year of allocation or funding may be subject to reprogramming to other projects selected through the prioritization process

SYIP Development Policy, December 2016

- A project that has been selected for funding through either the High Priority Projects Program or Construction District Grant Program may be cancelled only by action of the Board
- In the event that a project is not advanced to the next phase of construction when requested by the Board, the locality or metropolitan planning organization may be required, pursuant to § 33.2-214 of the Code of Virginia, to reimburse the Department for all state and federal funds expended on the project

Safety Improvements to Route 122 at Route 636 Intersection
UPC 109287 - Salem District
Budget Increase Request

Project Information

Safety Improvements to Route 122 at Route 636 Intersection (UPC 109287)

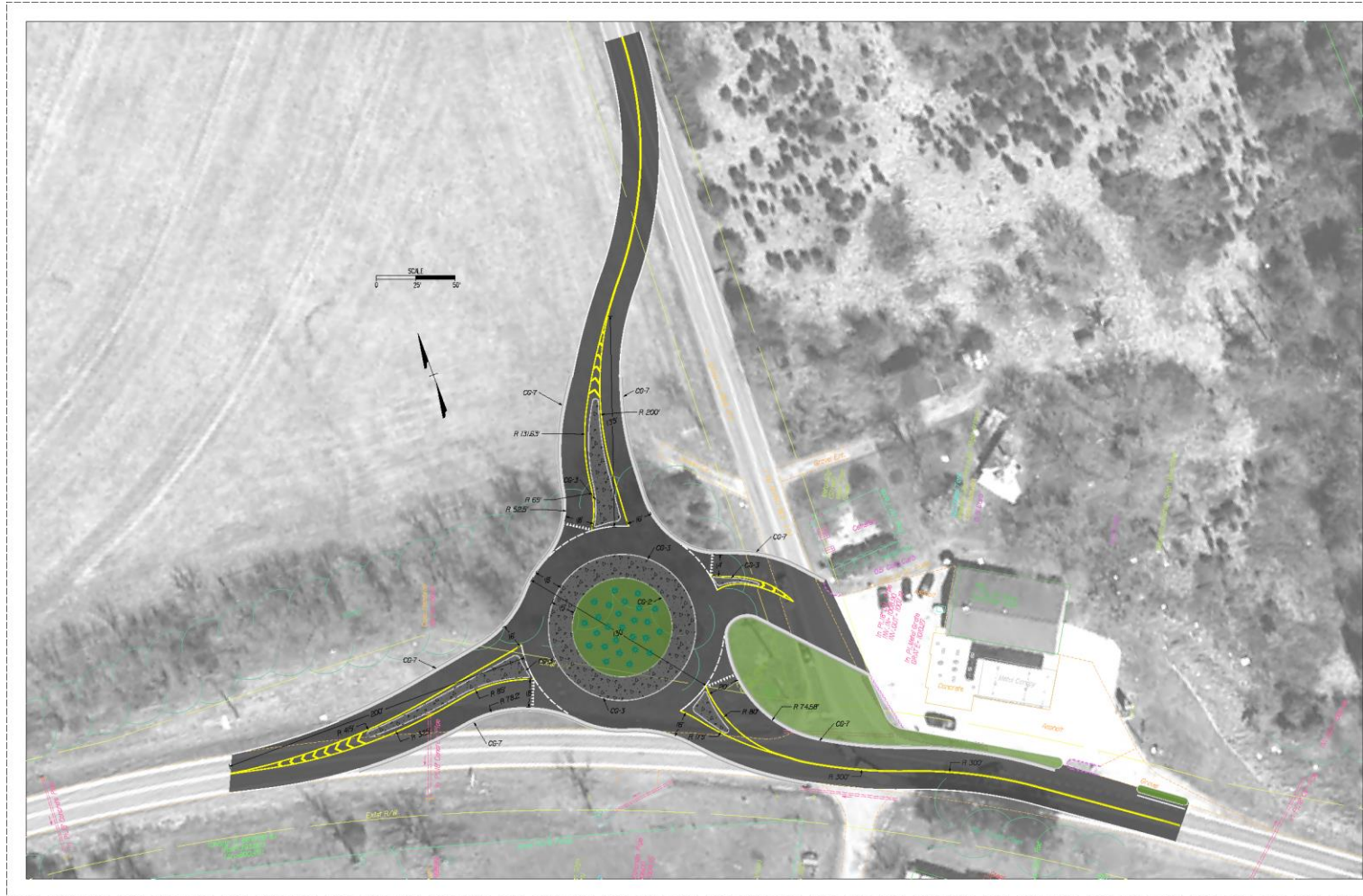
- Submitted by Franklin County in Round 1 of SMART SCALE
 - Total Original Project Cost: \$2,718,576
 - Total SMART SCALE Request: \$2,718,576
 - Request funded with DGP funds
- Project is VDOT administered
 - Construction scheduled to begin FY21
- Original Scope Included:
 - A northbound left turn lane on Route 122
 - An improved south bound right turn lane on Route 122
 - Access management (closing an entrance to a commercial business)

Change in Project Design

What Changed after Project Selection?

- Predominant crash pattern changed from rear-end to angle crashes
 - Angle crashes increased for vehicles turning from the side street (Hardy Road)
 - Increase in severe injury and fatal side street angle crashes
- VDOT identified proposed improvements to address the crash problem
 - Evaluated a traffic signal and a roundabout to reduce angle crashes
 - Roundabout recommended – better safety performance at comparable cost
 - A Citizens Information Meeting (CIM) was held on January 23, 2020
 - Majority of comments from the CIM were positive towards the roundabout
- Franklin County BOS expressed support for proposed design refinement in December and is expected to officially endorse the roundabout at their February 18, 2020 meeting

Proposed Design



Project Budget Increase

- **Estimated cost of revised scope is \$4.3M**
 - Increase of \$1.6M or 58% increase
 - Sufficient unallocated and deallocated Salem DGP funds are available to cover the increase

	Original Application	Current
Total \$	\$2.7M	\$4.3M
SMART SCALE \$	\$2.7 (DGP)	\$4.3M (increase of \$1.6M)
Score	9.5	6.0 (based on original benefits)
Funding Scenario	9/20	11/20 (project would still have been funded)
Expenditures as of 1/31/20		\$690,642

Recommendation for Action in March 2020

- **Approve Budget Increase Request**
 - Fund increase from surplus and unallocated balances

Salem Construction District Grant Funds	Amount Available
Surplus	\$1,923,850
Unallocated	\$1,180,912
Total Available	\$3,104,762

Hollins Road and Orange Avenue Intersection Improvements
UPC 111370 - Salem District
Cost Increase

Project Information

- **Hollins Road and Orange Avenue Intersection Improvements**
- Submitted by City of Roanoke in Round 2 of SMART SCALE
 - Total Original Project Cost: \$3,552,247
 - Total SMART SCALE Request: \$3,552,247
 - Full request funded with DGP funds
- Project is VDOT administered
- Improvements include:
 - An eastbound right turn lane on Orange Avenue at Hollins Road
 - Left turn lane improvements in both directions on Orange Avenue
 - Added capacity to Hollins Road in the immediate vicinity of the intersection
 - Reconstruct the existing traffic signal at this intersection (companion HSIP project)

Project History

Project Development

- Initial Advertisement March 2019: bids returned outside acceptable range of evaluative estimate
- District revised project scope to address cost (Summer 2019)
 - Reduced Hollins Road pavement reconstruction by following existing roadway profile
 - Shortened Hollins Road pavement transition
 - Removed previously planned landscaping
- SMART SCALE Working Group confirmed proposed changes did not impact the benefits (Fall 2019)
- Second Advertisement: bids returned high (January 2020)
 - Small urban job with low production rates resulted in high unit costs across bid items
 - All avenues for cost reduction exhausted & contingency released

Project Budget Increase

- **Estimated cost to award \$5.1M**
 - Total shortfall to award of \$1.6M
 - City of Roanoke has requested a transfer of \$1M in Revenue Sharing including local match (for CTB action in March) to cover the majority of the shortfall
 - Sufficient surplus and unallocated Salem DGP funds are available to cover the remaining shortfall of \$0.6M

	Original Application	Current
Total \$	\$3.5M	\$5.1M
SMART SCALE \$	\$3.5 (DGP)	\$4.1M (increase of \$0.6M) \$1M in RS plus including local match transfer pending
Score	9.28	8.0 (based on original benefits)
Funding Scenario	14/18	15/18 (project would still have been funded)
Expenditures as of 1/31/20		\$619,333

Recommendation

- **Approve the Revenue Sharing transfer**
- **The remaining shortfall will be below the threshold for CTB action and can be funded from surplus and deallocated Salem DGP**

Salem Construction District Grant Funds	Amount Available
Surplus	\$1,923,850
Unallocated	\$1,180,912
Total Available	\$3,104,762
Less Funds for Rte. 122/636 Scope Refinement	-\$1,590,014
Remaining Balance Available	\$1,514,748

I-64 Ramp Signalization at Ashland Road (Rte.623)
UPC 109313 – Richmond District
Cancellation Request

Project Information

I-64 Ramp Signalization at Ashland Road (Rte.623)

- New traffic signal at the eastbound I-64 on- and off-ramps at Ashland Road (Rte. 623).
- Submitted by Goochland County in Round 1 of SMART SCALE
 - Total Project Cost: \$766,837
 - Total SMART SCALE Request: \$766,837
 - Full request funded with DGP funds
- Project is VDOT administered
 - Signal does not meet warrants
 - Scheduled to begin preliminary engineering in October 2016, but project has not advanced to scoping

Project Information

I-64 Ramp Signalization at Ashland Road (Rte.623)

- Richmond District has worked extensively with Goochland county to identify a viable alternative but has been unsuccessful to date
 - Modular roundabout is not recommended in this location
 - Full roundabout is cost prohibitive
- District has recommended cancellation of the project

Recommendation

- **Cancel the I-64 Ramp Signalization at Ashland Road (Rte.623)**
- **Transfer all \$766,837 in Construction District Grant funds to the Richmond Construction District Grant deallocation balance entry (UPC -21766)**

