

Public Works and Capital Projects
May 15, 2018

CAPITAL STREET PROJECTS – CITY FUNDED

2018 Selective Slab Replacement A – At its March 5, 2018 meeting, City Council approved a contract with J.M. Marschuetz in an amount not to exceed \$938,674 for the 2018 Selective Slab Replacement A Project. A preconstruction meeting was held on April 5, 2018 and construction on this project is expected to commence the week of May 14, 2018. There are 16,740 square yards of concrete pavement replacement as part of this project. Streets include: Ladue Farm Road, River Bend Drive, Shady Valley Drive, Westernmill Drive, Millchester Circle, and Millbriar Circle.

2018 Selective Slab Replacement B – At its March 5, 2018 meeting, City Council approved a contract with J.M. Marschuetz in an amount not to exceed \$801,057 for the 2018 Selective Slab Replacement B Project. A preconstruction meeting was held on April 5, 2018 and construction is expected to commence later this Spring. There are 14,995 square yards of concrete pavement replacement as part of this project. Streets include: Schoettler Valley Drive, Countryside Manor Parkway, Coventry Farm Drive, Coventry Farm Court, and Coventry Glen Court.

Crack Sealing Project – The 2017 crack sealing project was completed in April, within budget. There is no crack sealing project in 2018. Crack sealing will resume in 2019, subject to budgetary approval by City Council.

Wilson Avenue Culvert Replacement Project – On November 6, 2017, City Council approved a contract with Pavement Solutions in an amount not to exceed \$485,000 for the replacement of the one-lane Wilson Avenue culvert with a new two-lane culvert. All utility relocations and tree / vegetation clearing have been completed. The upstream (east) side of the culvert has been completed (poured in-place) and backfilling is underway. It is anticipated that traffic will be switched to the east side of the culvert during the week of May 21. Due to continued problems with the temporary signals, and the fact that motorists were having no problem navigating the construction area with stop signs, the temporary signals have been removed from the Wilson Avenue project. Motorists are now required to stop at the signs and yield to any traffic within the work zone. One lane of traffic will remain open throughout the construction of the project, which is anticipated to be completed by August 1, 2018.

Schoettler Road Improvements (Clayton to Georgetown) – On March 19, 2018, the City of Chesterfield City Council approved a contract with HR Green to design improvements to Schoettler Road from Clayton Road to Georgetown Road. This project will include the design of a center turn lane from Georgetown Road to Schoettler Grove Court, as well as a designated right turn

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lane near Clayton Road. A design kick-off meeting was held in late March. The Geotechnical Investigation has been completed. Right-of-way and topo survey are underway and are scheduled to be completed by the end of May. Preliminary design is scheduled to begin in June. Once a preliminary design has been completed and approved by the City, the utility coordination and land acquisition phases of the project will commence – which is anticipated to occur late summer.

CAPITAL STREET PROJECTS – GRANT FUNDED

Schoettler Road Bridge – This project was awarded federal BRM funding for reconstruction of the existing two lane bridge on Schoettler Road over Creve Coeur Creek and construction of associated improvements, including sidewalk and pavement shoulders. The grant provides funding for up to \$1,602,480 of the estimated \$2,000,000 total project cost. Design and right-of-way acquisition for this project were completed in 2017. On July 17, 2017 City Council approved authorization to enter into a construction contract with Gershenson Construction in an amount not to exceed \$1,510,000. The design engineering firm, Burns and McDonnell, continues to provide construction engineering services for the project as previously authorized.

Gershenson was provided Notice to Proceed on October 16, 2017 and they began work on November 1, 2017 after utility relocations were substantially completed. Phase 1 was completed on December 21, 2017. Phase 2 was completed on April 19, 2018, at which time traffic was switched to the final temporary configuration to allow for Phase 3 construction. Phase 3 (the final phase) is in progress and this project is well ahead of schedule. The final asphalt overlay is expected to occur in late May and we anticipate the project will be substantially complete in June. Final plantings for the storm water BMPs will be scheduled during the fall planting window. Schoettler Road will continue to remain open to two-way traffic during construction.

Old Chesterfield Road – This project includes improvements to Old Chesterfield Road between Wild Horse Creek Road and Baxter Road. A Surface Transportation Program (STP) grant application was submitted to East-West Gateway in 2017 which included an asphalt overlay and replacement of the culvert just east of Santa Maria. That grant application was not successful. Nevertheless, the project is progressing and in 2017, City Council approved a contract with Oates Associates for design services to reconstruct the deficient culvert under Old Chesterfield Road. Design of this culvert is in progress, with utility coordination underway. A utility coordination meeting was held in late April. At this time it appears that all utilities are within the existing right-of-way and that the required utility relocations will be completed at no cost to the

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City of Chesterfield. While no permanent right of way will be required, both permanent drainage easements and temporary construction easements will be necessary in order to replace this culvert. A preliminary estimate for the culvert replacement has been received and will be incorporated into the 2018 grant application. The 2018 grant application will once again include replacement of the culvert and an asphalt overlay on Old Chesterfield Road. The grant application is due on June 14, 2018.

SIDEWALKS AND TRAILS

Monarch Chesterfield Levee Trail (Pump Station 4 Construction) – The US Army Corps of Engineer’s construction project to improve Pump Station 4 is scheduled to be completed in late June. During construction of the project, the Monarch – Chesterfield Levee Trail has been closed within the project limits. In early May the contractor finished his work near the top of the Levee, and subsequently agreed to allow the City to reconstruct the missing section of trail. On May 11, 2018 the City replaced the missing section of asphalt trail. During the week of May 14, the contractor will reconfigure its construction fencing and the Monarch – Chesterfield Levee Trail is expected to re-open in this area by May 18, 2018.

Monarch Chesterfield Levee Trail Phase V – This project (Baxter to I-64) is complete. Due to concerns about the safety of the section of trail which passes under I-64 in close proximity to Bonhomme Creek, the trail has been closed just south of I-64. This closure will remain until the next phase (Phase VI - see below) is constructed, at which time a safety barrier will be installed and the erosion caused by the bridge scuppers will be corrected.

Monarch Chesterfield Levee Trail Phase VI – This section of the Levee Trail extends from just north of I-64 to just east of the former ice complex. This project was originally delayed due to pump station work for Watershed 5 by the United States Army Corps of Engineers (USACE). The Watershed 5 pump station work is now complete; however, the Levee District has planned a substantive grading project in this area for 2018. City Staff has met several times with the Levee District and we believe that a preferred Levee Trail route has been identified and can be incorporated as part of the Levee District project. However, the design of the trail extension is on hold until the design of the Levee District project is complete. Once design of the trail does commence, it will include revisions to the existing trail to eliminate the steep grades under the I-64 overpass. City staff has held a preliminary meeting with the majority property owner to discuss alignment and other concerns. However, easement negotiation cannot resume until the Levee District plans are finalized.

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Sidewalk Replacement Projects – Due to the Emerald Ash Borer (EAB) crisis, City maintenance staff has been re-allocated to focus on tree removal. Accordingly, City Council has approved the EAB Action Plan whereby annual contractual sidewalk funding will be increased to \$500,000.

2018 Sidewalk Replacement A – This project will address sidewalk deficiencies in the Chesterfield Hills and Clarkson Woods subdivisions. The bid opening was held on March 6, 2018. On March 19, 2018, City Council approved a contract with the low bidder, Amcon Construction, in an amount not to exceed the budgeted amount of \$300,000. Notice to proceed was given to the contractor on April 2, 2018. Construction has begun, and we expect the project to be completed by the end of September.

2018 Sidewalk Replacement B – This project will address miscellaneous sidewalk deficiencies throughout the City of Chesterfield, primarily identified through Work Orders and Requests for Action (RFAs). The bid opening was held on March 8, 2018. On March 19, 2018 City Council approved a contract with the low bidder, Aztec Construction Specialties, in an amount not to exceed the budgeted amount of \$200,000. Notice to proceed was provided to the contractor on April 18, 2018.

Accessible Ramp Improvements (CDBG-2017) – The City of Chesterfield continues to utilize funds available through the Community Development Block Grant (CDBG) Program to construct ADA compliant sidewalks and curb ramps. The 2017 Curb Ramp Replacement Project was constructed within the Sea Beauty Farms subdivision. A bid opening was held on August 23, 2017, with Byrne and Jones Construction submitting the low bid of \$35,397. City Council approved the bid by Byrne and Jones at its September 18, 2017 meeting. Due to a delay in St. Louis County approval, construction of this project was postponed until the Spring of 2018. Notice to proceed was provided to the contractor on March 26, 2018, and construction was completed on May 1, 2018. All final paperwork has been sent to St. Louis County for direct payment to the contractor. This project is entirely funded through the CDBG Program, administered by St. Louis County.

Schoettler Road Sidewalk – There is no sidewalk on either side of Schoettler Road between Windsor Valley Court and Greenleaf Valley Drive. City Staff has generated a preliminary design and cost estimate for a sidewalk in this area. This project has been incorporated into the City's five year capital projects plan. City Staff is currently preparing an application to East-West Gateway to fund this project through the Surface Transportation Program (STP). The

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application is due to East-West Gateway by June 14, 2018, with notice of award expected this fall.

Riparian Trail – As part of an agreement between St. Louis County and the City of Chesterfield, St. Louis County agreed to leave four / five lanes of traffic on Baxter Road, with no dedicated bike lane. In return, the City of Chesterfield agreed to pursue construction of Phases Two and Three of the Riparian Trail. The aforementioned phases of the Riparian Trail begin at August Hill Drive, head north through Central Park, cross Wild Horse Creek Road, and terminate at Old Chesterfield Road. City Staff submitted a grant application for this project through the Transportation Alternatives Program (TAP) on June 19, 2017. In October of 2017, City Staff was notified that the East-West Gateway Board of Directors approved this project for funding. The total project cost is approximately \$1.5 million. With an approved grant funding of nearly \$1 million (maximum allowed), the net project cost will be approximately \$500,000. However, all project costs outside the grant will be funded through the Chesterfield Valley Transportation Development District (TDD). There will be no net cost to the City of Chesterfield.

On March 19, 2018 City Council authorized the following actions:

- 1) execution of a Program Agreement with MODOT accepting the terms of the grant;
- 2) approval of a contract with George Butler Associates (GBA) for design and construction services;
- 3) transfer of \$284,200 from General Fund – Fund Reserves to fund the project. Note that all monies transferred from the General Fund – Fund Reserves will be reimbursed through either the TAP grant or the TDD.

On April 2, 2018, City Council authorized an Amendment to the Contribution of Land Agreement with Chesterfield Village Incorporated (CVI) in order to acquire the land necessary to construct a portion of the Riparian Trail. City staff has already begun working with CVI to ensure the terms of the Amendment are met, including overseeing repairs to the Chesterfield Ridge Center Bridge.

The Program Agreement and Engineering Services Contract with George Butler & Associates (GBA) have both been fully executed. Once MoDOT finalizes the obligation of funds through Federal Highway Administration, GBA will be given notice to proceed on the engineering design phase of the project.

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MISCELLANEOUS PROJECTS

CVAC Improvements – Public Works maintenance personnel have finished their winter work on the concrete improvements on the gravel parking lot located at the CVAC. The completed work consists of roughly 300 feet of 24 foot wide concrete pavement. Public Works and Parks personnel met in early May and are investigating several options for paving the remaining section of the lot and installing irrigation and landscape islands.

River Valley Drive Closure – This project has been completed. In accordance with the River Valley Drive Gate Policy approved by City Council, the gate will remain closed, with the exception of the period during which St. Louis County reconstructs a nearby bridge on Creve Coeur Mill Road. That St. Louis County project is scheduled to begin in June 2018 and be completed in September 2018. More specifically, Creve Coeur Mill Road will be closed on Monday, June 11, 2018 and the gate for River Valley Drive will be opened at that time. The gate will remain open for the duration of the Creve Coeur Mill Road closure. Once Creve Coeur Mill Road is re-opened the River Valley Drive Gate will be closed. This project will remain on the Capital Project Update until the St. Louis County project is completed.

Compressed Natural Gas Fleet Conversion and Fueling Station - The City of Chesterfield obtained a Congestion Mitigation and Air Quality (CMAQ) grant to fund 80% of the cost of design and construction of a CNG fueling station and the purchase of nine CNG trucks. The CNG Fueling Station located at the Public Works Facility is complete and operational. The City will hold a “ribbon cutting” ceremony on May 22, 2018 during National Public Works Week (May 20 to 26) to celebrate the completion of this project. The City has received all seven 2.5 ton CNG trucks acquired as part of the grant. The City is still awaiting receipt of two 1-ton trucks, which are anticipated to be built sometime in July and received by the end of 2018.

Sewer Lateral Program – In the month of April, the City of Chesterfield received eight applications for repair, of which seven were approved. Since January 1, 2018, the City has received 44 applications for repair, of which 40 have been approved.

Street Tree Inspections and Removals – During the month of April, the City of Chesterfield received 69 requests for street tree inspections. These inspections resulted in the approval for removal of 48 trees. Based upon previous inspections, the City of Chesterfield managed the contractual removal of 40 street trees (non-Ash) and the grinding of 115 stumps during the month of April.

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Emerald Ash Borer Preparedness Plan and Action Strategy – During the month of April, 80 Ash trees were removed by Public Works maintenance personnel. There are approximately 4,100 Ash trees remaining, which are all scheduled for removal over the next five years.

Residential Street Tree Planting Program – The Spring 2018 street tree replacement program includes the planting of 80 street trees. Forty of these trees were planted in April. The remaining trees are scheduled for planting in May. All street tree plantings will be managed and inspected by the City Arborist to ensure all specifications are met.