

**Public Works and Capital Projects
August 15, 2019**

CAPITAL STREET PROJECTS – CITY FUNDED

2019 Selective Slab Replacement A – At its March 4, 2019 meeting, City Council approved a contract with Amcon Municipal Concrete in an amount not to exceed \$1,100,000. The project is approximately 95% complete, with the contractor currently replacing slabs on Water Ridge Court. There are 17,746 square yards of concrete pavement replacement as part of this project. Streets include: Glen Hollow Drive, Spring Valley Drive, Glen Cove Drive, High Valley Drive, Heather Crest Drive, Orchard Hill Drive, Cedarmill Drive, Silver Lake Court, Valley Branch Drive, Century Lake Drive, and Water Ridge Court.



2019 Selective Slab Replacement B – At its March 4, 2019 meeting, City Council approved a contract with J.M. Marschuetz in an amount not to exceed \$1,050,000. This project is also approximately 95% complete, with the contractor currently replacing slabs on Woodlet Park Drive. There are 15,658 square yards of concrete pavement replacement as part of this project. Streets include: Amherst Terrace Way, Amherst Green Court, Conway Oaks Drive, Conway Glen Court, Eldon Ridge Court, Terrimill Terrace, Wheatley Court, Morganfield Court, Woodlet Park Drive, and a trench grate replacement on Whethersfield Terrace Court.

2019 Selective Slab Replacement C – At its March 4, 2019 meeting, City Council approved a contract with J.M. Marshuetz in an amount not to exceed \$300,000. This project is substantially complete, with only punchlist items

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remaining. There are 3,760 square yards of concrete pavement replacement as part of this project. Selective Slab Project C was included in the 2019 Budget in order to address smaller, more isolated sections of concrete in need of repair.



Crack Sealing Project – The 2019 crack sealing project is scheduled to be bid in the Fall. Crack sealing is generally most effective in late fall / early winter when concrete is contracting and the cracks are open.

Schoettler Road Improvements (Clayton to Georgetown) – On March 19, 2018, 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 and a designated right turn lane near Clayton Road. Preliminary design was completed in January and a utility coordination meeting was held on February 6. It appears that all required utility relocations will be within right of way and will be completed at no cost to the City. All necessary right of way and easements have been acquired. HR Green is now completing final plans, including bid documents, project specifications, and final cost estimate.

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The project will be advertised for bid in January of 2020, with construction expected to commence in the Spring of 2020.

2019 Bridge Deck Sealing and Epoxy Overlay Project – The approved 2019 budget included \$140,000 for a bridge maintenance project to seal four bridges: Timberlake Parkway over Creve Coeur Creek, Schoettler Road over Creve Coeur Creek, Ladue Road over Creve Coeur Creek, and the Chesterfield Parkway Pedestrian Bridge over I-64. The project also included an epoxy overlay of the Eagle Bluff Court Bridge over Caulks Creek. This project was successfully completed on July 5, 2019 by the low bidder, R.V. Wagner.



Old Chesterfield Road – This project includes replacement of a deficient culvert and an asphalt overlay on Old Chesterfield Road between Wild Horse Creek Road and Baxter Road. The City applied for grants for this project in both 2017 and 2018. Unfortunately, neither grant application was successful and the project will need to be funded by the City in order to proceed. In 2017, the City Council approved a contract with Oates Associates for design services to reconstruct the deficient culvert under Old Chesterfield Road. Preliminary design of the culvert was completed in March of 2018, and a utility coordination meeting was held in April 2018. All utilities are within the existing right-of-way and the required utility relocations will be completed at no cost to the City. All utility relocations will be completed during the project construction phase with the exception of the overhead utilities, which must be relocated in advance of construction. Tree removal for the relocation of overhead utilities has been completed. Relocation of the overhead utilities is scheduled to start in October 2019.

No permanent right of way will be required as part of this project. However, both permanent drainage easements and temporary construction easements

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are necessary in order to replace the deficient culvert. All easements have been secured. Oates Associates is preparing the final Plans, Specifications and Estimate. These are anticipated to be completed in September 2019. Bidding of the project is anticipated in late 2019 or early 2020. Construction of this project is scheduled to commence in the Spring of 2020.



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Schoettler Road Bridge – This project was successfully constructed, under budget in 2018. A final inspection of the bio-retention plantings was completed in May 2019 and the contractor replaced some plants that did not survive the winter. Final project closeout paperwork was submitted to MoDOT in June and the City received final acceptance for this project from MoDOT on June 26. The final total project cost including all engineering, right-of-way acquisition, construction, and construction monitoring was approximately \$1,804,000. The final federal reimbursement amount was \$1,425,000 resulting in a final cost to the City of about \$379,000.

SIDEWALKS AND TRAILS

Accessible Ramp Improvements (CDBG-2019) – The City of Chesterfield will once again utilize funds available through the Community Development Block Grant Program to construct ADA compliant sidewalks and curb ramps in 2019. The 2019 project will reconstruct curb ramps within the Westbury Manor Subdivision. This project will be bid once funding becomes available through the CDBG Program which is administered by St. Louis County.

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2019 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 \$500,000.

2019 Sidewalk Replacement A – This project corrected sidewalk deficiencies in the Clarkson Woods, Claymont Manor, and the Bluffs of Wildhorse subdivisions. On March 18, 2019, City Council approved a contract with the low bidder, Lamke Trenching & Excavation, in an amount not to exceed \$307,100. Construction began on April 1, 2019 and has been completed at a cost of \$306,207. All paperwork has been submitted and final payment has been issued.



2019 Sidewalk Replacement B – This project addresses miscellaneous sidewalk deficiencies throughout the City of Chesterfield, primarily identified through Work Orders and Requests for Action (RFAs). The bid opening for this project was held on April 2, 2019. On April 17, 2019 City Council approved a contract with the low bidder, R.V. Wagner, in an amount not to exceed \$276,500, which included roll-over funding from 2018. Construction began on June 10, 2019. This is anticipated to be a year-long contract.

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 section will remain closed until the next phase (Phase VI - see below) is constructed.

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Monarch Chesterfield Levee Trail Phase VI – This section of the Levee Trail extends from just north of I-64 to the northeast corner of Top Golf. The Levee District is currently accepting bids for a project to add fill and improve this section of the Monarch-Chesterfield Levee. It is anticipated that construction of the levee improvement project will begin in 2019, pending acceptable river levels.

KDG, the City’s design consultant for the Levee Trail, has incorporated the Levee District grading project design into the design plans for Phase VI of the Levee Trail. Phase VI will also include a complete redesign and reconstruction of the Phase V segment of existing trail under the I-64 overpass, referenced above. The new design will eliminate the steep grades, improve safety, and correct existing erosion problems.

KDG required additional geotechnical information to design the retaining walls to be located under the I-64 overpass. Obtaining this field information was delayed due to high water levels; but it was finally obtained at the end of July. Now that KDG has the necessary geotechnical report, the consultant will work to finalize preliminary plans, which will be submitted to the City for review upon completion.

It is important to note that the Monarch – Chesterfield Levee is located on private property and the City has no right to construct a trail on the Levee without an easement. City Staff has previously held a meeting with the majority property owner to discuss alignment and other concerns. However, easement negotiations could not progress until the Levee District grading plans were finalized. Now that the Levee District plans are complete, easement negotiations can resume once KDG completes the preliminary design of the trail.

Monarch Chesterfield Levee Trail (Pump Station 4 and 6 Backflow Prevention Construction) – The Monarch-Chesterfield Levee District has submitted plans to the City for the replacement of storm water pump discharge pipes and the construction of backflow prevention structures at Pump Station 4 and Pump Station 6. This project will likely necessitate the closure of the Levee Trail in both locations. City Staff issued floodplain development permits on May 7, 2019 for this work. A preconstruction meeting is preliminarily planned for this month, at which time the City will acquire additional information on the time and duration of the trail closures. Once this project is complete, the City will be responsible for the restoration of the Levee Trail.

Los Padres Sidewalk Removal – On March 7, 2019 the Planning and Public Works Committee of City Council voted to approve Staff’s recommendation to remove a section of sidewalk on Los Padres Court from Rogue River Drive to

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14633 Los Padres Court. This section of sidewalk was in poor condition and would have been extremely expensive and difficult to reconstruct due to steep adjacent grades and nearby private retaining walls.

In-house Street Maintenance personnel completely removed the sidewalk and replaced the driveway aprons within the limits described above. The area was also backfilled, graded, and restored with seed and erosion control matting. The work was completed at the beginning of June.



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 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. Execution of a Program Agreement with MoDOT and execution of a design contract with George Butler and Associates (GBA) were authorized by City Council on March 19, 2018.

On April 2, 2018, City Council authorized an Amendment to the Contribution of Land Agreement with Chesterfield Village Incorporated (CVI) in order to

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acquire the land necessary to construct a portion of the Riparian Trail, and the closing documents with CVI were signed by the City on June 20, 2019.

The City received approval of the obligation of funds from MoDOT in June 2018. Preliminary engineering plans have been completed by GBA and are currently under review with permitting agencies and utility companies.



Schoettler Road Sidewalk – On February 14, 2019, the City of Chesterfield once again submitted a Surface Transportation Program (STP) grant application to East-West Gateway to fund the construction of 1,500 linear feet of five-foot concrete sidewalk on the east side of Schoettler Road from Windsor Valley Court to Greenleaf Valley Drive. This project would fill a sidewalk gap on Schoettler Road and provide a continuous pedestrian route from Clayton Road to Chesterfield Parkway. The grant application included construction of 950 linear feet of retaining walls due to steep existing topography in the project vicinity.

The estimated total project cost for construction of the sidewalk and retaining walls - including utility relocations, easement acquisition, and construction engineering and inspection - is \$980,000. On May 7, 2019 the City was notified that the East-West Gateway staff did not recommend this project for funding.

City Engineering Staff continues to investigate ways to fund and construct this project. Staff is currently reviewing the feasibility of constructing this sidewalk as part of a future asphalt overlay on Schoettler Road.

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River Valley Drive Closure – City Staff has been working to address mud and sinking pavement on River Valley Drive. After substantial investigation, it has been determined that the source of the problem was a storm sewer pipe that was damaged by Charter’s subcontractor during a recent underground bore project. City Staff coordinated repairs with both MSD and ADB (Charter’s subcontractor). The storm sewer has been repaired by MSD, and ADB has completed the necessary pavement restoration (including 14 cubic yards of pressurized grout to fill the voids) and site cleanup. Additionally, Krupp Construction (the contractor who originally constructed the road closure) repaired a flared end section and removed debris from the culvert underneath the cul-de-sac.

This project is now complete and the River Valley gate is once again closed.



Sewer Lateral Program – In the month of July, the City received 11 applications for repair, ten of which were approved. Since January 1, the City has received 97 applications for repair, of which 82 have been approved.

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Street Tree Inspections and Removals – During the month of July, the City of Chesterfield received 105 requests for street tree inspections. These inspections resulted in the approval for removal of 97 trees. Based upon previous inspections, the City of Chesterfield managed the contractual removal of 30 street trees (non-Ash) and the grinding of 150 stumps during the month of July.

Emerald Ash Borer Preparedness Plan and Action Strategy – During the month of July, 79 Ash trees were removed by Public Works maintenance personnel. There are approximately 3,500 Ash trees remaining, which are all scheduled for removal over the next four years.



Residential Street Tree Planting Program – The City of Chesterfield received 100 applications for a total of 111 new trees for the fall planting program. The application deadline for the fall planting is August 31.

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Flood Insurance Rate Map Updates – The State Emergency Management Agency (SEMA) is in the process of updating the Flood Insurance Rate Maps (FIRMs) and Flood Insurance Study (FIS) for St. Louis County. SEMA and its consultant (Wood Engineering) provided an introductory presentation on the new maps to municipal representatives in August of 2018. Based upon this information, the City sent postcard notifications to all property owners within 200 feet of a proposed floodplain/floodway change in September 2018. This allowed property owners to view the proposed changes and provide additional information and comments on the changes. SEMA held additional meetings in January of 2019, at which time they announced that Preliminary FIRMs are expected to be completed in September 2019. Once the Preliminary FIRMs are issued, there will be a formal comment period of 90 days during which affected residents can appeal details within the maps. New effective FIRMs are expected to be formally issued in two to three years. Details on the new maps and the information from SEMA are located on the City’s website. We will continue to update the website, and this report, as we obtain additional information.

2019 City Hall Exterior Parking Lot Lighting – In response to resident concerns about low lighting levels in the City Hall parking lot, earlier this year the City contracted with McClure Engineering to provide a photometric plan of the existing parking lot lighting levels. The photometric plan confirmed the existing lighting generally conforms to current City requirements. However, there are areas where lighting could be enhanced. Additionally, the overall parking lot lighting could be improved by upgrading to more energy efficient LED fixtures. City Staff is working to finalize a contract with McClure Engineering to design enhancements to the existing exterior lighting at City Hall and provide construction drawings and specifications suitable for bidding and construction.