

Public Works and Capital Projects
July 15, 2022

CAPITAL STREET PROJECTS – CITY FUNDED

2022 Selective Slab Replacement A – The bid opening for Selective Slab Replacement A was held on February 7, 2022, with Lamke Trenching and Excavating submitting the low bid. City Council approved a contract with Lamke on February 22, 2022 in an amount not to exceed \$1,500,000. Construction of the project began on April 7 and was substantially completed on July 1, with only punch list items and crack sealing remaining. This project includes 15,500 square yards of concrete replacement on the following streets: Blackwood Court, Bridgeway Drive, Chaistain Court, Chesterfield Manor Drive, Cheval Square, Crystal Springs Drive, Dejournet Drive, Lansbrook Court, Lansbrook Drive, Lehigh Meadows Drive, and Meierling Court.



2022 Selective Slab Replacement B – The bid opening for Selective Slab Replacement B was held on February 7, 2022, with Lamke Trenching and Excavating submitting the low bid. City Council approved a contract with Lamke on February 22, 2022 in an amount not to exceed \$900,000. There was originally 18,000 square yards of concrete pavement replacement as part of this project; however, due to high bid prices, approximately 10,500 square yards of pavement replacement were removed from the project. Streets which will be deferred to a future year are: Conway Springs Drive, Forest Meadows Drive, Whitestone Farm Drive, and Woodland Field Court.

Project B now contains 7,634 square yards of pavement replacement on the following streets: Englewood Terrace, Sycamore Drive, Terrimill Terrace, and

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White Elm Court. Project B will also include the replacement of grated troughs on Benton Taylor Drive, Hunters Hill Drive, and Treherne Court. Construction of Project B began on July 5, 2022 on Englewood Terrace and White Elm Court.

Crack Sealing Project – The 2022 crack sealing project is scheduled to be bid in the Fall. This project will include the sealing of long longitudinal cracks in both lanes of the concrete portion of Wilson Avenue. Crack sealing is generally most effective in late fall/early winter when streets are contracting and the cracks are open.

Schoettler Road Improvements – This project includes a two-inch mill of the existing asphalt pavement, pavement base repairs, replacement of failing curb and gutter sections, and a two-inch asphalt overlay on Schoettler Road between Georgetown Road and South Outer 40 Road. Removal and replacement of ADA curb ramps was originally planned as part of this project, but was later removed during final design. These were removed because the side street crossings are generally outside of the asphalt pavement limits, and it will be more effective (cost and logistically) to address these as part of concrete pavement replacement projects of the side streets in future years. The portion of Schoettler Road recently reconstructed as part of the Schoettler Road Bridge replacement project will receive a seal coat only.

The Public Works Department opened sealed bids for this project on April 19, with NB West submitting the low bid of \$1,098,728. On May 16, City Council approved a contract with NB West Contracting in the budgeted amount of \$1,200,000. Construction of this project began on June 6. Thus far, the contractor has completed removal and replacement of deteriorated curb and gutter sections. Pavement milling and base repairs are scheduled to begin during the week of July 11. Construction is scheduled to be completed before Parkway School District resumes classes in late August.

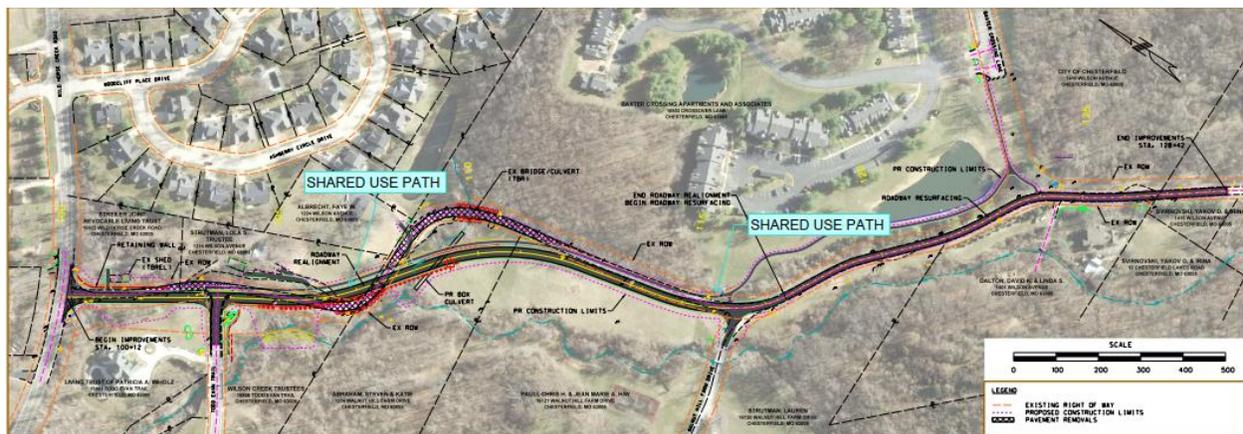
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Wilson Avenue Improvements – On November 1, 2021, City Council approved a contract with Oates Associates in an amount not to exceed \$310,000 for design services necessary in order to construct improvements to the northern portion of Wilson Avenue. The design contract with Oates was executed on November 17, 2021, and substantial work has been completed on preliminary plans, specifications, and cost estimate (PS&E). Based on the current design, the anticipated project cost is \$2,143,100, which includes \$1,633,100 for construction, \$340,000 for right-of-way/easement acquisition, and \$170,000 for construction engineering/inspection. The preliminary design was presented to the public on January 24, 2022. On February 7, 2022 the City Council

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authorized City Staff to submit a Surface Transportation Program (STP) grant application to East-West Gateway in order to fund this project. The grant request was submitted on February 10, and included a request for federal funding of \$1,143,170 (70% of the construction cost).

During the public presentation, there was overwhelming support for moving the shared use path to the east side of Wilson Avenue. This has been thoroughly reviewed by the consultant and it appears there are no substantial negative ramifications to making that change. Accordingly, the plan moving forward will be to construct the shared use path on the east side of Wilson Avenue. City Staff has met with several property owners on the east side of Wilson Avenue near Wild Horse Creek Road to discuss impacts to their property.



In May, the City of Chesterfield was notified that the Wilson Avenue project has been recommended for funding by East-West Gateway staff. Final approval will be considered by the East-West Gateway Board of Directors on August 31, 2022. If funding is approved, right of way acquisition will occur in 2023 and 2024 and construction will commence in 2026 (unless an earlier start date is authorized by East-West Gateway). Oates & Associates is currently performing a hydraulics analysis for the culvert at the S-curve and they are working to accommodate property impacts related to the proposed retaining wall near Wild Horse Creek Road.

SIDEWALKS AND TRAILS

2022 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 sidewalk funding will be approximately \$500,000 through 2022.

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2022 Sidewalk Leveling Project - This year the City Engineering Staff will manage a project whereby a contractor will level sidewalk sections to remove deficiencies through the use of a mud-jacking process. This will allow the City to repair additional sidewalk and reduce the number of slabs that will require full removal and replacement within the Sidewalk A Project. The bid opening for this project was held on April 5, 2022. On April 19, City Council approved a contract with the low bidder, Lift Rite, in an amount not to exceed \$55,000. Construction began on July 7.



2022 Sidewalk Replacement A - This project will correct sidewalk deficiencies in a number of subdivisions, including The Courts, Sycamore Place, Forest Meadows, Wilson Farm, Wilson Manor, Chesterfield Meadows and Bent Tree. A bid opening was held on June 7, 2022, with E. Meier Contracting submitting the low bid of \$231,518. On June 20, City Council approved a contract with E. Meier Contracting in an amount not to exceed \$245,000. Construction on this project is expected to commence in late July.



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2022 Sidewalk Replacement B – This project addressed 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 February 7, 2022. On February 22, City Council approved a contract with Lamke Trenching and Excavating in an amount not to exceed \$200,000. Construction began on March 14, 2022 and has been completed at a total cost of \$199,990.

Riparian Trail – The project limits for Phase II of the Riparian Trail begin at August Hill Drive, continue north through Central Park, cross Wild Horse Creek Road at the Burkhardt Place intersection, and terminate at Old Chesterfield Road. This project is partially funded through a \$1 million grant acquired through the Transportation Alternatives Program (TAP). All remaining project costs outside the grant will be funded through the Chesterfield Valley Transportation Development District (TDD), resulting in no net cost to the City of Chesterfield.

Construction bids for the Riparian Trail project were opened on July 27, 2021, with Ideal Landscape Management submitting the low bid. On August 16, 2021 the City of Chesterfield City Council approved a construction contract with Ideal Landscape Management in an amount not to exceed \$880,000. Ideal began work on October 11, 2021, and the site work is now nearing completion. The trail has been paved from August Hill Dr to Wild Horse Creek Road. The remaining section between Wild Horse Creek Road and Old Chesterfield Road is scheduled to be paved by July 18. The project is expected to be substantially complete by July 29.



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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.

Monarch Chesterfield Levee Trail Phase VI – Phase VI of the Monarch-Chesterfield Levee Trail extends from just north of I-64 to the northeast corner of Top Golf. Once constructed, this section will fill the remaining “gap” in the Levee Trail.

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 acquiring the necessary easements. On February 1, 2021 City Council approved ordinances authorizing negotiation and the use of condemnation, if necessary, to acquire the easements for this project. In the Spring of 2021, City Engineering Staff contacted all affected property owners and made written monetary offers for the required easements. City Engineering Staff and the City Attorney also met with the owners’ attorney in June of 2021. Since then, the City Attorney has made multiple attempts to negotiate further with the owners’ attorney in an attempt to acquire the easements amicably, but received no response. Therefore, the City Attorney has begun condemnation proceedings, and all parties have been served the required court documents. The first Condemnation Hearing was originally scheduled for June 30, 2022 but was later rescheduled to July 21. Once the easement acquisition is complete, the project will be advertised for bid. A project start date will be scheduled after a contractor is chosen and a construction contract is approved.



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Accessible Ramp Improvements (CDBG-2021) – This project includes the reconstruction of ten ADA compliant sidewalk ramps in the Highcroft Estates and Westfield Farms subdivisions. The bid opening was held on April 5, 2022. On April 19, City Council approved a contract with Spencer Contracting in an amount not to exceed \$55,000. Construction of this project began on June 13, and was substantially completed on July 8. Spencer Contracting is currently addressing punch list items and submitting final paperwork. Please note that this is considered a 2021 project, but the CDBG funding will not be released by St. Louis County until later in 2022. The City will be reimbursed approximately \$43,000, once the funding becomes available.



Eberwein Park – This project involves removing the aggregate trails located throughout Eberwein Park and replacing them with a new concrete trail. The trail will be relocated in some areas in an effort to minimize the grade and stabilize the trail. This project will correct the erosion issues that have been affecting the Eberwein Park trails since they were originally constructed. An engineering services contract with Horner and Shifrin was approved by City Council on May 3, 2021. Design was complete in the Spring of 2022, at which

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time the project was advertised for bid. On June 7, 2022, City Council approved a contract with the low bidder, Kozeny-Wagner, in an amount not to exceed \$840,000. A pre-construction meeting was held on July 7, 2022, and construction is expected to commence August 1, 2022. The project has been designed such that access to the community garden and dog park will be maintained at all times during construction.

MISCELLANEOUS PROJECTS

Sewer Lateral Program – In the month of June, the City of Chesterfield received 13 applications for sewer lateral repairs, 11 of which were approved. As of January 1, 2022, the City has received 55 applications for repair, of which 47 have been approved.



2022 Parking Lot Asphalt Overlay (City Hall, Aquatic Center, and Parks Administration) – This project will include an asphalt overlay of the parking lots located at City Hall, the Aquatic Center, and the Parks Administration Building. Also included with this project is the reconstruction of the ADA ramps located adjacent to the ADA parking spaces at these facilities. Funding for these overlays was approved as part of the 2022 budget, and the project is currently being advertised for bid with a bid opening scheduled for July 19, 2022. This project will be constructed in the fall after the Aquatic Center closes for the 2022 season.

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2022 Parking Lot and Trails Seal Coat - This project includes sealing and restriping the remaining City parking lots (not included in the asphalt overlay project) and trails. Funding for this project was included in the 2022 budget and the project has been designed by City Staff. This project is currently being advertised for bid with a bid opening scheduled for July 19, 2022. Construction of this project is expected to commence in the Fall.

Main Circle Drive - In cooperation with the Parks Department, the Engineering Staff is working to design an extension of Main Circle Drive from its existing terminus at the Main Circle Drive round-a-bout to Veterans Place Drive. An engineering design services contract with Stock & Associates was approved by City Council on January 19, 2022 in an amount not to exceed \$40,000. Stock was given Notice to Proceed on January 25. We recently received plan approval from MSD and obtained necessary easements from the St. Louis County Library. Final plans, specifications, and cost estimate (PS&E) are nearing completion. The project is scheduled to be advertised for bids late this summer and constructed in the fall.

Street Tree Inspections and Removals - During the month of June, the City of Chesterfield received 85 requests for street tree inspections. These inspections resulted in the approval for removal of 65 street trees. Based upon previous inspections, the City of Chesterfield managed the contractual removal of 40 street trees (15 non-Ash and 25 large White Ash) as well as the grinding of 125 stumps in the month of June.



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Residential Street Tree Planting Program – In the month of June, the City’s tree planting contractor (Farinella Nursery) replaced eight trees covered under warranty. The City is currently accepting applications for the Fall 2022 street tree planting, with a deadline of August 31, 2022. Thus far, the City has received 127 applications totaling 222 trees as part of the Fall planting.

Emerald Ash Borer Preparedness Plan and Action Strategy – During the month of June, 51 Ash trees were removed by Public Works Street Maintenance personnel. There are approximately 400 Ash trees remaining, which are all scheduled for removal by the first quarter of 2023. Seven years after the initial EAB detection in 2015, infestation numbers for the borer have yet to reach the top of the estimated population curve. Missouri state forestry entomologists continue to forecast that the EAB infestation around the St Louis area will peak in 2025 and that 99% of all Ash trees will die due to the damage caused by the borer. The remaining public Ash trees continue to exhibit signs of decline in all size ranges. Until all of the public Ash trees are removed, Public Works and contracted tree crews will continue to primarily focus on Ash trees and trees with immediate hazards when considering removal. Nuisance trees will be deferred until the public Ash trees have been eliminated.

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 were expected to be completed in the summer of 2020. The issuance date of the preliminary FIRMs has been delayed several times. The most recent update from SEMA is that preliminary maps will be issued in August 2022. The new FIRMs are expected to officially become effective in late 2023. 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.

Old Chesterfield Road – In the summer of 2020, the culvert under Old Chesterfield Road was replaced and the asphalt portion of the roadway was overlaid. Recently, sink holes have developed along a portion of the roadway adjacent to the edge of pavement. A dye test was conducted at which time it was determined that the sink holes are being caused by a deficient joint in the box culvert. In order to reduce the movement of water under the roadway a flowable expanding epoxy material was injected into the sink holes. The Street

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Maintenance Division will later seal the joint in the box culvert and place additional flowable expanding epoxy as necessary. Road and shoulder repairs will be constructed as necessary. Engineering Staff will monitor this area regularly to verify the repairs and ensure the ground is stabilized.