

Public Works and Capital Projects
April 15, 2021

CAPITAL STREET PROJECTS – CITY FUNDED

2021 Selective Slab Replacement A – The bid opening for Selective Slab Replacement A was held on February 16, 2021, with Amcon Municipal Concrete submitting the low bid. City Council approved a contract with Amcon on March 1, 2021 in an amount not to exceed \$2,075,000. This project began on March 26, with the contractor starting on Isleview Drive and Denwoods Drive. There are 33,795 square yards of concrete pavement replacement as part of this project. Streets include: Claymont Estates Drive, Isleview Drive, Denwoods Drive, Redondo Drive, Narrows Drive, and Corley Drive.



2021 Selective Slab Replacement B – The bid opening for Selective Slab Replacement B was held on February 18, 2021, with Raineri Construction submitting the low bid. City Council approved a contract with Raineri Construction on March 1, 2021 in an amount not to exceed \$625,000. This project is also scheduled to start this spring. A pre-construction meeting will be held in late April. There are 9,075 square yards of concrete pavement replacements as part of this project. Streets include: Nardin Drive, Clover Ridge Drive, Stonebriar Ridge Drive, and Stonebriar Ridge Court. Project B also includes the replacement of grated troughs on Chermore Drive and Fairfield Farm Drive, which were completed on April 15.

River Valley Drive – Pavement undermining problems persist on the northern portion of River Valley Drive. Engineering Staff had previously investigated this problem and planned to address it via a full depth asphalt reclamation project in 2021, budgeted at \$140,000. However, on March 22, 2021 a sizable sink hole appeared which caused the closure of River Valley Drive for one week. Based upon the changing conditions and additional undermining, Staff has re-evaluated the prior course of action and is instead recommending a full reconstruction of River Valley Drive utilizing concrete pavement and

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underdrains. During removal of the existing pavement, the subgrade will be inspected and any voids will be filled. Improvements will also be made to the ditches on the east side of the road to minimize storm water from infiltrating below the pavement. The proposed plan will be presented to City Council at its April 21, 2021 meeting. If approved, this project will be incorporated into Selective Slab Project A via a \$160,000 change order.



Wildhorse Parkway Bridge Deck Concrete Overlay – The approved 2021 budget includes \$350,000 for a bridge maintenance project to rehabilitate the existing deck on the Wildhorse Parkway bridge over Bonhomme Creek. Bids for this project will be opened on April 20, 2021. During construction it will be necessary to restrict traffic on the bridge to one lane. Temporary signals will be utilized to control traffic while the one lane restriction is in place. Advance notification will be provided to area residents and subdivision trustees.



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Crack Sealing Project – The 2021 crack sealing project is scheduled to be bid in the fall. Crack sealing is generally most effective in late fall/early winter when streets are contracting and the cracks are open.

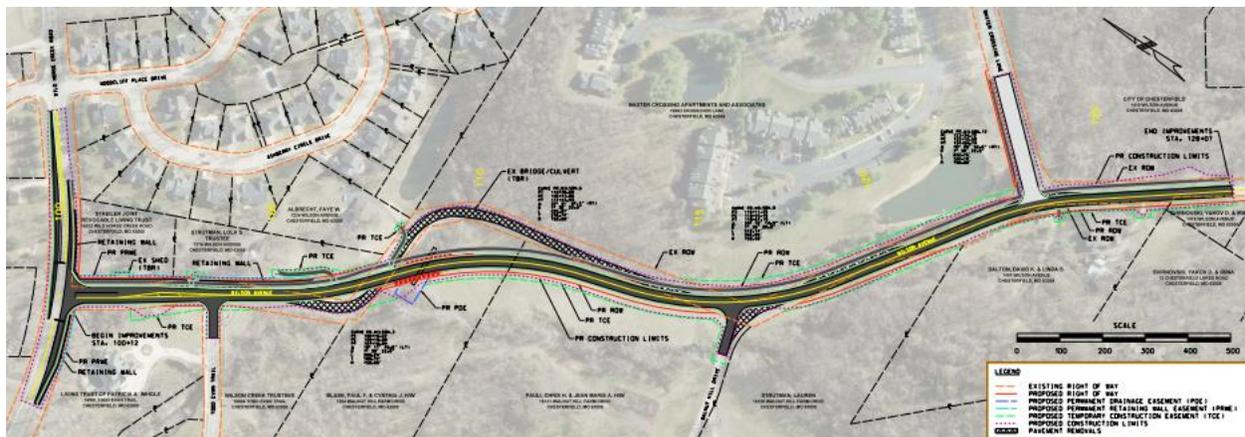
CAPITAL STREET AND SIDEWALK PROJECTS – GRANT FUNDED

Wilson Avenue – On October 8, 2020, the Planning and Public Works Committee directed City Staff to pursue a federal grant to partially fund the reconstruction of Wilson Avenue from the recently reconstructed culvert to Wild Horse Creek Road. If the grant application is successful, this project will address myriad deficiencies on Wilson Avenue, including: sharp curves, narrow lanes, insufficient drainage, and the lack of paved shoulders. The project would also fund improvements to the Wilson Avenue / Wild Horse Creek Road intersection, as well as add bicycle and pedestrian accommodations.

To assist Staff in the conceptual design of the roadway project prior to the grant application, Staff prepared an online survey for City residents that was posted on the City website in the fall of 2020. Over 500 residents completed the survey and provided feedback on the project. The Planning and Public Works Committee reviewed the survey results at its December 10, 2020 meeting and provided additional direction to Staff for the grant application.

A Surface Transportation Program (STP) grant application was submitted to East-West Gateway on February 11, 2021. Staff expects to be notified of the grant award status this summer. If the grant is awarded, Staff will hold an Open House or otherwise seek additional resident input prior to preparing preliminary design plans and prior to preparing final construction plans.

The following is the conceptual road realignment:



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SIDEWALKS AND TRAILS

2021 Sidewalk Replacement Projects – Due to the Emerald Ash Borer (EAB) crisis, City Maintenance Staff have 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.



2021 Sidewalk Replacement A – This project will correct sidewalk deficiencies in the Kehrs Mill Farm, Kehrs Mill Bend, Sycamore Place, Round Hill, and The Courts subdivisions. A bid opening was held on February 2, 2021, with Raineri Construction submitting the low bid of \$289,375. On February 17, 2021, City Council approved a contract with Raineri Construction in an amount not to exceed \$300,000. Construction began on March 24, 2021 in the Round Tree subdivision.

2021 Sidewalk Replacement B – This project will address miscellaneous sidewalk deficiencies throughout the City of Chesterfield,

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primarily identified through Work Orders and Requests for Action (RFAs). The bid opening for this project was held on March 2, 2021, with Lamke Trenching and Excavating submitting the low bid of \$212,150. On March 15, 2021, City Council approved a contract with Lamke in an amount not to exceed \$270,000. This includes the addition of the Wilson Avenue Sidewalk project detailed directly below. Construction on Sidewalk Project B began on April 12, 2021.

Wilson Avenue Sidewalk – At the February 16, 2021 City Council meeting a 2021 budget amendment in the amount of \$48,000 was approved for the construction of a missing section of sidewalk on the west side of Wilson Avenue north of Buchholz Mortuary. Staff has contracted with Pickett, Ray and Silver to obtain a topographic and property line survey of the project area. Once the survey is complete, Staff will compile construction documents. Construction of this sidewalk will be added to the Sidewalk Project B via change order, allowing the construction of the sidewalk during the summer of 2021.



Accessible Ramp Improvements (CDBG-2020) – This project will involve the reconstruction of approximately 20 ADA compliant sidewalk ramps in the Wildhorse Springs and Woodcliffe Place subdivisions. The bid opening was held on February 16, 2021, with Spencer Contracting submitting the low bid of \$60,443. On March 1, 2021, City Council approved a contract with Spencer Contracting in an amount not to exceed \$62,306. This project is entirely funded through the CDBG Program, administered by St. Louis County. Construction will be scheduled once the project funding becomes available.

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Please note that this is considered a 2020 project, but the CDBG funding will not be available until sometime in 2021.

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 next section) is constructed.

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. This summer the Monarch-Chesterfield Levee District will begin constructing upgrades to the existing levee adjacent to the Phase VI trail project, and these upgrades must be completed prior to the City beginning construction of this phase of the Levee Trail.

The Levee District project will include widening the top of the levee and constructing a wider base with a flat “bench” area approximately 15 feet lower than the top of levee. The proposed trail is designed to transition from the top of the levee down to the river-side bench area behind an existing residence. This trail transition to the bench area will provide a visual buffer between trail users and the property owner’s home and is intended to help in easement acquisition by addressing one of the property owner’s primary concerns about the trail project.



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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. The Levee Trail plans have been approved by the Monarch-Chesterfield Levee District, the US Army Corps of Engineers, MSD, and MoDOT.

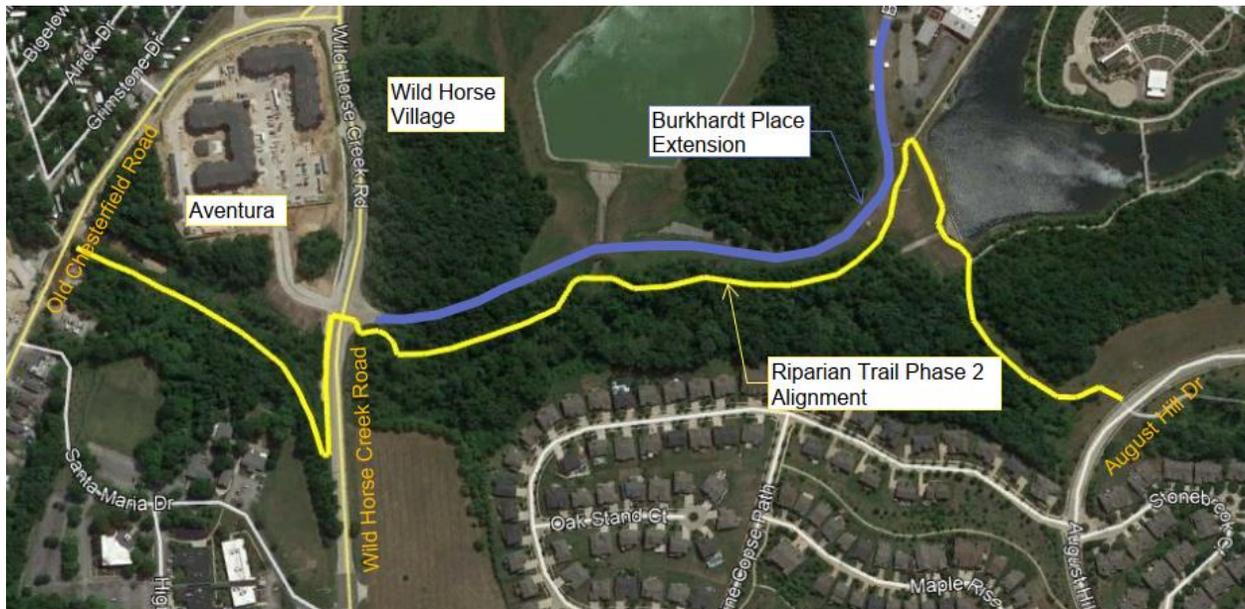
It is important to note that the Monarch-Chesterfield Levee is located on private property and the City has no right to construct a trail on the levee without an easement. Accordingly, City Staff will work with the owners of the affected properties in order to acquire the easements necessary to construct the Levee Trail extension. On February 1, 2021 City Council approved ordinances authorizing the use of condemnation, if necessary, to acquire the easements for the project. City Engineering Staff is currently working to obtain updated appraisals, and will negotiate and attempt to acquire the easements without resorting to condemnation if possible.

Riparian Trail – In 2021, the City of Chesterfield will construct Phases II and III of the Riparian Trail. The Riparian Trail extension will begin at August Hill Drive, head north through Central Park, across Wild Horse Creek Road, and terminate at Old Chesterfield Road. This \$1.5 million project will be 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. 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 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.

Construction of this project was originally planned to commence in late summer of 2020. However, the Wildhorse Village project will include construction of the Burkhardt Place extension and signalization of the Burkhardt Place/Wild Horse Creek Road intersection. In order to allow for necessary coordination with the developer on the design of the trail crossing at the new signal, Staff secured a project extension from East-West Gateway, delaying this project to 2021.

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The final Plans, Specifications, and Estimate (PS&E) for the trail were successfully revised to coordinate with the Burkhardt extension and the Wild Horse Creek intersection plans. The final PS&E were submitted to MoDOT in March. Once the PS&E are approved and MoDOT provides the necessary authorization, we will advertise for bids for this project. We expect construction of this project to commence mid to late summer.

MISCELLANEOUS PROJECTS

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. On September 30, 2020, SEMA issued a revised schedule for issuance of the Preliminary FIRMs. The preliminary map issuance date was tentatively set for February 19, 2021. An update was received from SEMA on February 16, 2021 indicating the preliminary FIRMs are still being reviewed and will not be ready for issuance until May of 2021. The new effective FIRMs are expected to be issued in late 2023. Details on the new maps and the information from SEMA are located on

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the City's website. We will continue to update the website, and this report, as we obtain additional information.

City Hall Lighting Improvements – The 2021 Budget includes \$209,000 for improvements to the exterior lighting at City Hall. This project will address areas of the parking lot with low lighting levels, as well as an overall upgrade to more energy efficient LED fixtures. Bids for this project were publicly opened on March 2, with Rolwes Electric submitting the low bid. City Council approved a contract with Rolwes Electric at its March 15, 2021 meeting, in an amount not to exceed \$209,000. Staff is currently working with Rolwes on execution of contract documents, with construction scheduled to commence in the summer of 2021.

Sewer Lateral Program – In the month of March, the City of Chesterfield received seven applications for sewer lateral repairs, of which six were approved. As of January 1, 2021, the City has received 29 applications for repair, of which 26 have been approved.



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Street Tree Inspections and Removals – During the month of March, the City of Chesterfield received 67 requests for street tree inspections. These inspections resulted in the approval for removal of 31 street trees. Based upon previous inspections, the City of Chesterfield managed the contractual removal of 16 street trees (7 non-Ash and 9 large White Ash) as well as the grinding of 65 stumps during the month of March.



Emerald Ash Borer Preparedness Plan and Action Strategy – During the month of March, 98 Ash trees were removed by Public Works maintenance personnel. There are approximately 1,600 Ash trees remaining, which are all scheduled for removal by December of 2022.

Residential Street Tree Planting Program – During March and early April, Farinella Nursery installed 20 trees, which completed the Fall 2020 Planting (379 trees). Later this month, Farinella will begin installing the street trees approved as part of the Spring 2021 Planting (175 trees).