City of O’Fallon

St. Charles County Road Board
2019-2021 Project Applications

County Road Board Meeting
June 20, 2018
Project Applications

Projects Submitted For the 2019-2021 TIP

1. Guthrie Road
2. Sonderen Street
3. Weldon Spring Road
Project Locations
City of O’Fallon
St. Charles County Road Board
2019-2021 TIP

Guthrie Road
RB18-000015
**Location:** Intersection at Mexico Road and Guthrie Road then Flint Brook Drive north along Guthrie Road to Bluff Brook Drive.
Guthrie Road

Existing Conditions:
• The existing Guthrie Road section consists of two 11 foot lanes with no shoulders or curbing and disjointed sidewalks.
• LOS of the Guthrie Road and Mexico Road Intersection is beginning and will continue to degrade due to development in the area.

Project Scope:
• Application is for the design, right of way, and construction.
• Signalize the intersection of Mexico Road and Guthrie Road.
• Reconstruct Guthrie Road near Deer Brook Drive to ease the severity of the existing curve.
• Widen Guthrie Road at roadway intersections to three lanes.

Performance Measures:
• Allow better traffic flow with signalization of the Guthrie and Mexico Road intersection addition of turn lanes and increased curve radius near Deer Brook Drive.
• Allow better pedestrian movement along Guthrie Road.
Guthrie Road

- Guthrie Road - Project Limits
- Guthrie Road - Potential New Roadway
- New Sidewalk
- Existing Sidewalk
- Areas to be widened for a 3-lane road section
- New signalized intersection
Guthrie Road

Record Plat for Brookside Village B, Plat One
Guthrie Road

Record Plat for Brookside Village B, Plat One
Guthrie Road

Transmap data for 2017. PCI ranged from 51-65
Guthrie Road

Looking north on Guthrie towards Mexico Rd.

Looking south on Guthrie towards Mexico Rd.
Guthrie Road

Looking north, Keystone Ridge Development to the left and Flint Brook Drive to the right

Looking north from Flint Brook Drive
Looking south, Keystone Ridge Development to the right and Flint Brook Drive to the left

Looking north at curve near Deer Brook Drive
Guthrie Road

Looking south at curve near Deer Brook Drive

Looking north from Deer Brook Drive
Looking south at 455 Guthrie Road

Looking north at 455 Guthrie Road
Guthrie Road

- 80/20 split

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City of O’Fallon
St. Charles County Road Board
2019-2021 TIP

Sonderen Street
RB18-000022
Location: Sonderen Street from Sonderen Loop north to E. Pitman Street
Sonderen Street

Existing Conditions:
• Sonderen Street is a collector that is anticipated to see an increase in ADT upon completion of the I-70 SOR project.

Project Scope:
• Application is for the design, right of way, and construction.
• Widen the existing two lane portions to a typical three lane section.
• Reconstruct sidewalk on the west side to be ADA compliant and construct new sidewalk on the east side.
• Addition of curb and gutter and storm sewers.

Performance Measures:
• Provide improved ADA compliant pedestrian facilities along the project limits.
• Provide a widen pavement section for anticipated future traffic.
Sonderen Street

- Sonderen Street - Project Limits
- New 5' Sidewalk
- Existing Sidewalk
- Areas for 3-lane road section
Sonderen Street

Repair/Install ADA compliant curb ramps at all corners, install high-visibility pedestrian crosswalks to improve safety.

Reconstruct roadway (asphalt) to 3-lane section to E. Pitman Lane.

Construct new 5 concrete sidewalk on the E side of Sonderen St.

Repair/Replace deficient concrete slabs.

Repair existing sidewalk to comply with ADA req'ts on W side of Sonderen St.
Sonderen Street

Transmap data for 2017. PCI ranged from 70-85
Sonderen Street

Looking north from intersection of Sonderen Loop

Looking south near 512 Sonderen
Sonderen Street

Looking south at the intersection of Sonderen Loop

Looking south near 402 Sonderen
Sonderen Street

Looking south at the intersection E. Pitman Street

Looking south near 402 Sonderen
### Sonderen Street

- **80/20 Split**

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| Percent %            | 80%      | 20%     | 0%    |


City of O’Fallon
St. Charles County Road Board
2019-2021 TIP

Weldon Spring Road

RB18-000014
Location:  Weldon Spring Road from just north of Technology Drive to Crusher Drive.
Weldon Spring Road

Existing Conditions:
• Weldon Spring Road is a two lane roadway with no shoulders or curbing with disjointed sidewalks.

Project Scope:
• Application is for the design, right of way, and construction.
• Construct new pedestrian facilities along the east side of Weldon Spring Road.
• Widen out to a three lane section at intersections of roadways.
• Mill and overlay with full depth repairs of asphalt pavement. Install curb and gutter and storm sewers where necessary.

Performance Measures:
• Improve pedestrian circulation along the project limits by connection existing segments of sidewalk.
• Improve traffic flow by providing left turn lanes.
Transmap data for 2017. PCI ranged from 58-82
Weldon Spring Road

- Widen road to 3-lanes
- Enhanced, High-visibility Pedestrian Crossing
- New 5' wide sidewalk
- Repair existing asphalt roadway
- Widen road to 3-lanes
- Repair existing concrete roadway
Weldon Spring Road

Looking south at entrance to retail center

Looking north at entrance to retail center
Weldon Spring Road

Looking north near entrance to retail center

Looking north along the Preserve at Research Park
Weldon Spring Road

Looking north along the Preserve at Research Park

Looking south along the Preserve at Research Park
Weldon Spring Road

Looking with Crusher Road in background

Looking north at intersection of Weldon Spring Road and Crusher Road
Weldon Spring Road

Looking south from the SE corner of Weldon Spring Road and Crusher Road

Looking south at the intersection of Weldon Spring Road and Crusher Road
## Weldon Spring Road

- **80/20 Split**

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| Percent %               | 80%     | 20%     | 0%    |
City of St. Paul

St. Charles County Road Board
2019 TIP Project Applications
Project Application

1. Missouri Route 79 at Riverdale Drive Traffic Impact and Safety Study
Missouri Route 79 at Riverdale Drive Traffic Impact and Safety Study

• **Location:** Missouri Route 79 from Dalbow Road to Highway Y

• **Existing Condition:** At full buildout the Riverdale Subdivision will consist of 692 single family homes. Currently, approximately 250 homes are occupied. Building permits are on the rise in this development (46 were issued in 2016, 57 in 2017 and as of June 15, 2018, 35 permits have been issued. As a result, there is a growing concern with both residents and elected officials about increasing traffic volumes and the ability to make turning maneuvers to and from Route 79, particularly during peak traffic hours. As Riverdale continues toward buildout more traffic will likely use Vomund Road and Highway Y for access to and from Route 79. Considering the high speeds on Route 79 and increased traffic volume, the City of St. Paul is desiring to conduct a traffic study to review traffic operations and potential safety improvements. Ultimately, the purpose of the study will be to identify deficiencies and recommended improvement strategies to be used for a tool for future transportation funding applications.

• **Project Scope:** The City of St. Paul is desiring to conduct a traffic study to review traffic operations and potential safety improvements along Highway 79 from Dalbow Road to Highway Y.

• **Performance Measures:** Various alternatives will be reviewed based on operations and safety during the morning and evening peak traffic periods. The existing or baseline (2019) and future (2039) traffic volume scenarios will be considered for this study. Project Benefits will be measured by congestion mitigation (i.e. delay, queues, and Level-of-Service), safety improvements with HSM crash modification factors, and cursory opinion of probable construction costs.
Missouri Route 79 at Riverdale Drive Traffic Impact and Safety Study
Missouri Route 79 at Riverdale Drive Traffic Impact and Safety Study
Project Name

- **Financial Plan and Schedule** – Similar to table below, specify additional funding sources (other), provide as much detail as necessary

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City of St. Peters
St. Charles County Road Board
2019 TIP Project Applications
Project Applications

1. Hwy 370 & Salt River Road Access Justification Study
2. Citywide Bridge Rehabilitation
3. Spencer Road Reconstruction & Safety Improvements
4. Jungermann Road Safety Improvements
Hwy 370 & Salt River Road Access Justification Study

- **Location:** Hwy 370 at Salt River Road
Hwy 370 & Salt River Road Access Justification Study

- Existing Condition:
  - Congestion at Mid Rivers Mall Drive and I-70
  - Congestion at Cave Springs Road and I-70
  - Limited Access to/from Premier 370 Business Park
Hwy 370 & Salt River Road Access Justification Study

- **Project Scope:**
  - Perform Engineering Analysis Necessary to Gain MoDOT Support
  - Ramp from Route 370 Eastbound to Salt River Road Westbound
  - Ramp from Salt River Road Eastbound to Route 370 Westbound
Hwy 370 & Salt River Road Access Justification Study

Project Scope Continued:
Hwy 370 & Salt River Road Access Justification Study

Performance Measures:

• Improve Utilization of Hwy 370 and I-70 Interchange
• Reduce Congestion & Improve LOS at Mid Rivers Mall Drive and I-70
• Reduce Congestion & Improve LOS at Cave Springs Road and I-70
• Improve Access to/from Premier 370 Business Park
• Promote Additional Economic Development
Hwy 370 & Salt River Road Access Justification Study

- Financial Plan and Schedule:

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Citywide Bridge Rehabilitation

- **Location:** 11 Bridges in St. Peters
Citywide Bridge Rehabilitation

- **Existing Condition:** Cracked Decks, Failing Approach Slabs, Spalling Deck Ends, Cracked Wing Wall, Substandard Guardrail

Photos from 2018 MoDOT Bridge Inspection
Citywide Bridge Rehabilitation

Project Scope:
- Epoxy Polymer Deck Overlay
- Silane Seal Deck and Barrier
- Replace Approach Slabs & Approach Pavement
- Upgrade Guardrail to Current Safety Standards

Performance Measures:
- Extend Useful Life of Bridges
- Improve Structural Rating
- Upgrade to Current Safety Standards
## Citywide Bridge Rehabilitation

### Financial Plan and Schedule:

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Spencer Road Reconstruction & Safety Improvements

Location: Willott Road to Springwood Drive
Spencer Road Reconstruction & Safety Improvements

- **Existing Condition:**
  - Unwarranted Stop Signs
  - Pavement Does Not Meet Arterial Standards
  - Sidewalk Does Not Meet ADA Standards
  - Unprotected Midblock Pedestrian Crossings
Spencer Road Reconstruction & Safety Improvements

- Project Scope:
  - Reconstruct Pavement to Arterial Standards
  - Reconstruct Sidewalks to ADA Standards
  - Add Pedestrian Refuge Islands
  - Eliminate Unwarranted Stop Signs
Spencer Road Reconstruction & Safety Improvements

Project Scope Continued:
- Install Mini Roundabouts
Spencer Road Reconstruction & Safety Improvements

- Performance Measures:
  - Improve Pavement Condition
  - Reduce Vehicle Speeds
  - Reduce Pedestrian and Vehicle Accidents
  - Upgrade Sidewalks to Meet ADA Standards
Spencer Road Reconstruction & Safety Improvements

**Financial Plan and Schedule:**

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Jungermann Road Safety Improvements

- **Location:** Bartley Street to Willott Road
Jungermann Road Safety Improvements

- Existing Condition:
  - Multiple Curves
  - 10’ Lanes
  - Wet Pavement Crashes
  - Unsignalized Midblock Pedestrian Crossing
Jungermann Road Safety Improvements

- Project Scope:
  - Inlaid Pavement Markers
  - High Friction Surface Treatment on Curve Identified in Strategic Highway Safety Plan
Jungermann Road Safety Improvements

- Project Scope:
  - Flashing LED Pedestrian Crossing Signs
Jungermann Road Safety Improvements

- Performance Measures:
  - Reduce Wet Road Crashes in Curve
    - Anticipated Crash Reduction Factor - 40.45
  - Improve Lane Line Visibility
  - Improve Safety of Pedestrian Crossing
Jungermann Road Safety Improvements

- Financial Plan and Schedule:

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St. Peters Funding Priorities

1. Hwy 370 & Salt River Road Access Justification Study
2. Citywide Bridge Rehabilitation
3. Spencer Road Reconstruction & Safety Improvements
4. Jungermann Road Safety Improvements
2018 Project Applications

- Gutermuth Road, Phase III
- Heritage Crossing at Route 364
- Interstate Drive
- Route N & Route Z Intersection
- Diehr Rd at Route DD Study
Gutermuth Road, Phase III

- **Location:**
  - From Old Gutermuth to Motherhead Road
  - Project length of 0.62 miles

- **Existing Condition:**
  - Narrow two lane roadway
  - Ditches and major dropoffs
  - Substandard horizontal and vertical curves
  - Pavement condition rated 5 out of 10
  - Current ADT = 4,869 vpd
  - Large volume increase once interchange opens
Project Scope

- Three lanes with curb and gutter
- Sidewalks on both sides
- Improved horizontal and vertical alignment
Gutermuth Road, Phase III
## Financial Plan and Schedule

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*** Requesting $1,020,000 in Federal Funds = 30% federal
- **Location:**
  - Between Jungs Station Road and Heritage Crossing
  - Project length of 0.19 miles

- **Existing Condition:**
  - Adverse travel to access Route 364 from Heritage area
  - Delays on outer roads at Harvester Road
Heritage Crossing at Route 364

- Project Scope
  - Add slip ramps (and accel/decel lanes) on Route 364 west of Heritage Crossing
    - New westbound on-ramp
    - New eastbound off-ramp
  - Widen S St. Peters Pkwy for a new receiving lane
  - Lane and signal modifications on Heritage Crossing over Route 364
## Financial Plan and Schedule

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*** Requesting $1,404,000 in Federal Funds = 50% federal
Location:
- From just east of Quail Ridge Park to Prospect/Duello intersection
- Project length of 1.00 miles

Existing Condition:
- Narrow two lane roadway
- No shoulders; drop offs
- Pavement condition rated 3 out of 10
  - Major rutting, raveling, potholes and patches throughout
- Volume to increase
  - Current ADT 3,302
Project Scope

- Standard 12’ wide lanes with 6’ wide shoulder(s) and/or curb & gutter
- Improved vertical alignment
- New sidewalk on the park side
Interstate Drive
## Interstate Drive

### Financial Plan and Schedule

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*** Requesting $1,190,000 in Federal Funds = 27% federal
Route N and Route Z Intersection

- **Existing Condition:**
  - Unconventional split intersections
  - Extreme traffic delays (124 sec.)
  - ADT’s:
    - Rte N = 10,064
    - Rte Z = 10,966
Project Scope

- Relocate Route Z to the east
- Create single 4-leg signalized intersection
- Reduce delay from 124 seconds to 21 seconds
- Complement any future David Hoekel Parkway, Phase III improvements
## Route N and Route Z Intersection

### Financial Plan and Schedule

<table>
<thead>
<tr>
<th></th>
<th>County</th>
<th>City.</th>
<th>Other</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design (2019)</td>
<td>$ 200,000</td>
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<td>$ 200,000</td>
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<tr>
<td>ROW (2020)</td>
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<tr>
<td>Utilities (2021)</td>
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<tr>
<td>Construction (2021)</td>
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<td>$ 1,534,000</td>
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<td>$2,548,500</td>
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<td>$3,310,000</td>
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<td>Percent %</td>
<td>53.7%</td>
<td>46.3%</td>
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Federal Funds acquired by MoDOT, transferred to County
Location:
- At the intersection of Route DD and Diehr Road

Existing Condition:
- Three-leg intersection
- Diehr ADT = 2,046
- Route DD = 7,555
Diehr Road at Route DD Study

- Analyze options for future 4-leg intersection
- Handle growth in area

Incorporate LSL Blvd extension
Satisfy MoDOT requirements
### Diehr Road at Route DD Study

#### Financial Plan and Schedule

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<tr>
<td>Design (2019)</td>
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<td><strong>Total</strong></td>
<td>$ 200,000</td>
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<tr>
<td>Percent %</td>
<td>100%</td>
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</tbody>
</table>
2018 Project Applications

- Gutermuth Road, Phase III
- Heritage Crossing at Route 364
- Interstate Drive
- Route N & Route Z Intersection
- Diehr Rd at Route DD Study