## FAYETTEVILLE PROTECTED BIKE LANE <br> Pilot Project <br> Appleby Rd. and Rolling Hills Dr.



Sponsored By:
BikeNWA
501 SE 3rd St.
Bentonville, AR
72712

Funded By:

Walton Family Foundation
P.O. Box 2030

Bentonville, AR
72712

Dennis Blind, PLA

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## BIKE LANES ENHANCEMENT PROJECT APPLEBY RD.



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## Sheet List:

Cross-Sections:
Cross Section Locations
A. W. Appleby Rd. at Scull Creek Trail
B. W. Appleby Rd. at Jason Dr.
C. Fiesta Dr. Entrance
D. Appleby Rd. Typical

Plans

1. Appleby Rd. Bike Lane Sheet 2. Appleby Rd. Bike Lane Sheet 2 3. Appleby Rd. Bike Lane Sheet
2. Appleby Rd. Bike Lane Sheet 4
3. Appleby Rd. Bike Lane Sheet 5
4. Appleby Rd. Bike Lane Sheet 6
5. Appleby Rd. Bike Lane Sheet 7
6. Appleby Rd. Bike Lane Sheet 8
7. Appleby Rd. Bike Lane Sheet 9
8. Appleby Rd. Bike Lane Sheet 10
9. Appleby Rd. Bike Lane Sheet 11

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## BICYCLE FACILITY ENHANCEMENT

APPLEBY RD. BIKE LANES
CROSS SECTION LOCATIONS AND VIEW DIRECTION

## NOTES:

A W. APPLEBY RD. AT
sCull CREEK TRAIL
(B) W. APPLEBY RD. AT JASON DR.
(C) FIESTA DR. ENTRANCE

D APPLEBY RD. TYPICAL

## W. APPLEBY RD. AT SCULL CREEK TRAIL


W. APPLEBY RD. AT

SCULL CREEK TRAIL

## BICYCLE FACILITY ENHANCEMENT

CROSS-SECTION AND PLAN:
W. APPLEBY RD. AT

SCULL CREEK TRAIL
FACING EAST

## NOTES:

Add reflective traffic buttons at $1^{\prime}$ ' intervals on the $4^{\prime \prime}$ white stripe of the existing $5^{\prime}$ bike lanes. The travel lane are $10^{\prime}$ wide.

Cyclists can maneuver between the trail and the bike lanes by utilizing a new painted crosswalk connecting the existing curb ramps on either side of W. Appleby Rd. Green paint is placed at the first $25^{\prime}$ of the bike lanes, and a right-hand turn bike symbol and signage indicate the connection to the Scull Creek Trail or Razorback
Greenway.

## CROSS-SECTION LOCATIONS:



## W. APPLEBY RD. AT JASON DR.

54'

W. APPLEBY RD. AT JASON DR.

BICYCLE FACILITY ENHANCEMENT
CROSS-SECTION AND PLAN:
W. APPLEBY RD. AT JASON DR.

FACING NORTH

## NOTES:

Add reflective traffic buttons at $15^{\prime}$ intervals on the $4^{\prime \prime}$ white stripe of the existing $5^{\prime}$ bike lanes. Travel lanes on the southbound side of the street are $11^{\prime}$ with a $14^{\prime}$ left-turn lane. The northbound travel lane is $13^{\prime}$ in width. An existing $6^{\prime}$ raised curb buffer separates traffic around the turn on W. Appleby Rd., with a gap to facilitate turns onto Jason Dr.


## EXISTING



## FIESTA DR. ENTRANCE

## BICYCLE FACILITY ENHANCEMENT

CROSS-SECTION AND PLAN
FIESTA DR. ENTRANCE ON
E. APPLEBY RD

FACING NORTH

PROPOSED


NOTES:
The existing entrance to Fiesta Square shopping center on E . Appleby Rd. quickly tapers down to $28^{\prime}$ in width as it becomes a road through th parking lot. There is no striping currently. The oad widens to $34^{\prime}$ further into the parking lot

The proposed condition includes a two-way cycle track with two $4^{\prime}$ lanes, and a $2^{\prime}$ buffer with vertical flexible bollards. The travel lanes are $9^{\prime}$ in width

## CROSS-SECTION LOCATIONS:



## APPLEBY RD. TYPICAL CROSS-SECTION

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APPLEBY RD. TYPICAL


## NOTES:

Add reflective traffic buttons at $15^{\prime}$ intervals on the $4^{\prime \prime}$ white stripe of the existing $5^{\prime}$ bike lanes. The travel lane are $10^{\prime}$ wide.



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## SHEET 1 OF 11

BICYCLE FACILITY ENHANCEMENT
W. APPLEBY RD. BIKE LANES

## NOTES:

The bike lanes on W. Appleby Rd. begin and end The bike lanes on $W$. Appleby Ra. begin and end
at the western edge of the bridge that crosses Scull Creek and the Razorback Greenway.

The bike lanes are $5^{\prime}$ in width, while the travel lanes are $10^{\prime}$ each. Reflective traffic buttons are placed at $15^{\prime}$ intervals along the existing 4" white stripe of the bike lane to provide an enhanced level of separation and visibility.

Cyclists can maneuver between the trail and the bike lanes by utilizing a new painted crosswalk connecting the existing curb ramps on eithe side of W. Appleby Rd. Green paint is placed at the first $25^{\prime}$ of the bike lanes, and a right-hand turn bike symbol and signage indicate the con nection to the Scull Creek Trail or Razorback Greenway.

Data Source(s):
City of Fayetteville Aerial Photography


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## SHEET 2 OF 11

BICYCLE FACILITY ENHANCEMENT
W. APPLEBY RD. BIKE LANES

## NOTES:

The bike lanes are $5^{\prime}$ in width, while the travel The bike lanes are $1 \mathbf{l}^{\prime}$ each. Reflective traffic buttons are
lanes are placed at $15^{\prime}$ intervals along the existing $4^{\prime \prime}$ white stripe of the bike lane to provide an en hanced level of separation and visibility.

The white bike lane stripe is dashed at intersec tions and driveways, and green paint is used at conflict zones in intersections and commercial driveways.

Crosswalks are added at all curb ramps crossing intersections, intersecting streets, and W. Appleby Rd. itself where curb ramps exist at the intersection with N . Dorchester Dr.


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SHEET 3 OF 11

BICYCLE FACILITY ENHANCEMENT
W. APPLEBY RD. BIKE LANES

## NOTES:

The bike lanes are $5^{\prime}$ in width, while the travel lanes are $10^{\prime}$ each. Reflective traffic buttons are placed at $15^{\prime}$ intervals along the existing 4" white stripe of the bike lane to provide an en hanced level of separation and visibility.

The white bike lane stripe is dashed at intersections and driveways, and green paint is used at conflict zones in intersections and commercial driveways.

Crosswalks are added at intersecting streets, and across W. Appleby Rd. at the intersection with Bob Younkin Dr.


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BICYCLE FACILITY ENHANCEMENT
W. APPLEBY RD. BIKE LANES

## NOTES:

The bike lanes are 5 ' in width, while the travel lanes are $10^{\prime}$ each. Reflective traffic buttons are placed at 15 ' intervals along the existing 4 " white stripe of the bike lane to provide an en hanced level of separation and visibility.

The white bike lane stripe is dashed at intersections and driveways, and green paint is used at conflict zones in intersections and commercial driveways.

Crosswalks are added at intersecting streets, and across W. Appleby Rd. at the intersection with Bob Younkin Dr. (see Sheet 3).


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## SHEET 5 OF 11

BICYCLE FACILITY ENHANCEMENT
W. APPLEBY RD. bike LANES

## NOTES:

The bike lanes are 5 ' in width, while the travel lanes are 10' each. Reflective traffic buttons are placed at $15^{\prime}$ intervals along the existing $4^{\prime \prime}$ white stripe of the bike lane to provide an enhanced level of separation and visibility.

At the intersection with Jason Dr. a left-hand turn lane and striped buffer with raised median islands are added to Appleby Rd. The bike lanes remain 5 ' in width around the turn.

The white bike lane stripe is dashed at intersections and driveways, and green paint is used at conflict zones in intersections and commercial driveways.

Crosswalks are added at intersecting streets, and driveways.

Data Source(s):
City of Fayetteville Aerial Photography


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## SHEET 6 OF 11

BICYCLE FACILITY ENHANCEMENT
W. APPLEBY RD. BIKE LANES

## NOTES:

The bike lanes are $5^{\prime}$ in width, while the travel lanes are $10^{\prime}$ each. Reflective traffic buttons are placed at $15^{\prime}$ intervals along the existing $4^{\prime \prime}$ white stripe of the bike lane to provide an enhanced level of separation and visibility.

The white bike lane stripe is dashed at intersections and driveways, and green paint is used at conflict zones in intersections and commercial driveways.

Crosswalks are added at intersecting streets, and driveways.

Data Source(s):
City of Fayetteville Aerial Photography

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## SHEET 7 OF 11

BICYCLE FACILITY ENHANCEMENT
W./E. APPLEBY RD. BIKE LANES

## NOTES:

The bike lanes are $5^{\prime}$ ' in width, while the travel lanes are $10^{\prime}$ each. Reflective traffic buttons are placed at $15^{\prime}$ intervals along the existing $4^{\prime \prime}$ white stripe of the bike lane to provide an en hanced level of separation and visibility.

The white bike lane stripe is dashed at intersections and driveways, and green paint is used at conflict zones in intersections and commercial driveways.

Crosswalks are added at intersecting streets, and driveways.

The intersection of W. Appleby Rd. and W Bishop Dr. has been altered from the current configuration. Stop signs and stop bars are added on westbound W. Appleby Rd. as well as eastbound W. Bishop Dr.


## SHEET 8 OF 11

BICYCLE FACILITY ENHANCEMENT
E. APPLEBY RD. BIKE LANES

## NOTES:

The bike lanes are $5^{\prime}$ in width, while the travel lanes are 10' each. Reflective traffic buttons are placed at $15^{\prime}$ intervals along the existing $4^{\prime \prime}$ white stripe of the bike lane to provide an en hanced level of separation and visibility

The white bike lane stripe is dashed at intersections and driveways, and green paint is used at conflict zones in intersections and commercial driveways.

Crosswalks are added at intersecting streets, and driveways.


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## SHEET 9 OF 11

BICYCLE FACILITY ENHANCEMENT
E. APPLEBY RD. bIKE LANES

## NOTES:

The bike lanes are 5 ' in width, while the travel lanes are $10^{\prime}$ each. Reflective traffic buttons are placed at $15^{\prime}$ intervals along the existing $4^{\prime \prime}$ white stripe of the bike lane to provide an enhanced level of separation and visibility.

The white bike lane stripe is dashed at intersections and driveways, and green paint is used at conflict zones in intersections and commercial driveways.

Crosswalks are added at intersecting streets, and driveways.

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## SHEET 10 OF 11

BICYCLE FACILITY ENHANCEMENT
E. APPLEBY RD. BIKE LANES

## NOTES:

The bike lanes are $5^{\prime}$ in width, while the travel lanes are $10^{\prime}$ each. Reflective traffic buttons are placed at $15^{\prime}$ intervals along the existing $4^{\prime \prime}$ white stripe of the bike lane to provide an enhanced level of separation and visibility. The eastbound bike lane shifts off of the street and into the Goodwill parking lot as a 5 ' protected bike lane with a $3^{\prime}$ buffer with vertical flex bollards spaced at 10 intervals.

The white bike lane stripe is dashed at intersec tions and driveways, and green paint is used at conflict zones in intersections and commercia driveways. Crosswalks are added at intersecting streets, and driveways.

On Fiesta Dr. a two-way cycle track is added. The width of Fiesta Dr. at the intersection with E. Appleby Rd. is $28^{\prime}$, with two $9^{\prime}$ travel lanes, a buffer, and two $4^{\prime}$ bike lanes within the cycle track. Moving north on Fiesta Dr. the width in creases to 34 , giving space for wider bike lanes or travel lanes.

At the intersection with Fiesta Dr. a left-hand furn box and a dashed white stripe across E. Appleby Rd. are added to facilitate turning motions for northbound cyclists. Right-hand turns from Fiesta Dr. are guided with dashed striping

Data Source(s):
City of Fayetteville Aerial Photography


## SHEET 11 OF 11

## BICYCLE FACILITY ENHANCEMENT

## E. APPLEBY RD. BIKE LANES

## NOTES:

A two-way cycle track is added to Fiesta Dr., reducing the travel lanes to $9^{\prime}$ to accomodate a $2^{\prime}$ buffer and $8^{\prime}$ of cycle track at the intersection with E. Appleby Rd. Fiesta Dr. widens as it ap proaches the intersection with N. College Ave to $34^{\prime}$ allowing for wider bike lanes, buffer, and/or travel lanes. Green paint is used in conflict zones with the shopping center parking lot Vertical bollars are placed in the buffer at $10^{\prime}$ intervals.

A left-hand turn box and dashed white strpes are placed in the shopping center entrance in tersection to facilitate movement from the buff red bike lane on the shopping center ingress the two-way cycle track. The ingress bike lane buffer has $3^{\prime}$ rubber parking buffers spaced at $10^{\prime}$ intervals.

CROSS-SECTION LOCATIONS


SHEET LOCATION


See E. Rolling Hills Rd. and N. College Ave. Intersection drawing for intersection details.

Data Source(s):
City of Fayetteville Aerial Photography


## 7 $N$

| $05^{\prime}$ | $50^{\prime}$ | $75^{\prime}$ | $100^{\prime}$ |
| :--- | :--- | :--- | :--- | :--- |

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BICYCLE FACILITY ENHANCEMENT
INTERSECTION MODIFICATION: FIESTA DR. / E. ROLLING HILLS RD. AND N. COLLEGE AVE

## NOTES:

Add bike lanes to the ingress and egress of
Fiesta Dr., reducing the ingress to one $12^{\prime}$ travel lane, a 4' buffer with vertical delineators, and a $6^{\prime}$ bike lane. Reduce the two lanes of egress to $9^{\prime}$ and add a $3^{\prime}$ bike lane.

Use green paint at the beginning and end of bike lanes. Place elephant's feet markings and bike lane symbols with double chevrons above and below the bike symbol through the intersection to increase visibility to vehicles in the intersection.

Add bike lanes to E. Rolling Hills Rd., maintaining the alignment of the centerline. Reducing travel lanes to $10^{\prime}$, and adding $4.5^{\prime}$ bike lanes on each side.

## Data Source(s):

City of Fayetteville Online Data Portal
City of Fayetteville Aerial Imagery

## PROTECTED BIKE LANES ENHANCEMENT PROJECT E. ROLLING HILLS RD.



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## Sheet List:

Cross-Sections:
Cross Section Locations
A. Fiesta Dr. at N. College Ave.
B. E. Rolling Hills Dr. at N. College Ave
C. E. Rolling Hills Dr. at Old Missouri Rd.
D. E. Rolling Hills Typical

Plans:

1. E. Rolling Hills Protected Bike Lane Sheet 1
2. E. Rolling Hills Protected Bike Lane Sheet 2 3. E. Rolling Hills Protected Bike Lane Sheet 3
3. E. Rolling Hills Protected Bike Lane Sheet 4 5. E. Rolling Hills Protected Bike Lane Sheet 5 6. E. Rolling Hills Protected Bike Lane Sheet 6 7. E. Rolling Hills Protected Bike Lane Sheet 7

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# BICYCLE FACILITY ENHANCEMENT 

CROSS SECTION LOCATIONS AND VIEW DIRECTION

## NOTES:

fiesta dr. at n. college ave.

## (B) E. rolling hills dr. at N. COLLEGE AVE.

E. ROLLING HILLS DR. AT OLD MISSOURI RD.
(D) E. ROLLING HILLS DR.

## Data Source(s):

fiesta dr. at n. college ave.
BICYCLE FACILITY ENHANCEMENT
CROSS-SECTION:
FIEST DR. AT N. COLLEGE AVENUE FACING EAST

## NOTES:

The existing ingress and egress to the Fiesta Square shopping center is median divided, with two $11^{\prime}$ travel lanes of egress, and one $22^{\prime}$ lane of ingress. There are currently no striped facilities for cyclists.

The proposed changes include reducing the two 11 lanes of egress to 9 in width to accomodate a $4^{\prime}$ bike lane, as well as reducing the $22^{\prime}$ lane of ingress to $10^{\prime}$ to accomodate a $8^{\prime}$ bike lane with a $4^{\prime}$ buffer with vertical delineators.

## CROSS-SECTION LOCATIONS:



## EXISTING


$\square$

PROPOSED


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BICYCLE FACILITY ENHANCEMENT
CROSS-SECTION:
E. ROLLING HILLS DR. AT
N. COLLEGE AVENUE

FACING EAST

## NOTES:

The existing conditions where E. Rolling Hills Rd intersects with N. College Ave. include two 13' travels lanes and one 13' left-turn lane, with no accomodations for cyclists.
he proposed changes include reducing both travel lanes and the left-turn lane to $10^{\prime}$ in width and introducing a 4.5 bike lanes on each side of the street using traffic buttons to provide tex tural separation of the bike lanes, which connect to the existing buffered bike lanes that begin when the left-hand turn lane tapers away.

## CROSS-SECTION LOCATIONS:



## EXISTING



## PROPOSED


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po box 88 bentonvile or 72712E. ROLLING HILLS DR. AT OLD MISSOURI RD.

BICYCLE FACILITY ENHANCEMENT
CROSS-SECTION:
E. ROLLING HILLS DR. AT

OLD MISSOURI RD.
FACING EAST

## NOTES:

The existing condition on E. Rolling Hills Dr. at the intersec tion with Old Missouri Rd. includes two 5 ' ' buffered bike
lanes with $3^{\prime}$ buffers, along with two $11.5^{\prime}$ ' travel lanes.
he proposed changes include removing the bike lane from the south half of the road and moving the cycling path onto the sidewalk to connect with the crossing over Old Missour tion of a right-hand turn lane, and the conversion of the existing travel lane into a left-hand turn lane.
he buffered bike lane on the north side of E. Rolling Hills Rd. is widened to 6 ' and rubber parking buffers have been introduced into the $3^{\prime}$ buffer spaced at $10^{\prime}$ intervales center to center.

All travel lanes have been reduced to $10^{\prime}$ to reduce speeds along the corridor.

CROSS-SECTION LOCATIONS:


## TYPICAL CROSS-SECTION AND PLAN



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## E. ROLLING HILLS DR.

 TYPICAL CONDITIONBICYCLE FACILITY ENHANCEMENT
CROSS-SECTION AND PLAN:
E. ROLLING HILLS DR. TYPICAL
between N. COLLEGE AVE. AND OLD MISSOURI RD

## NOTES

The existing buffered bike lanes on E. Rolling Hills Rd. are $5^{\prime}$ in width with a $3^{\prime}$ buffer, accom panied by two 11.5' travel lanes.

The proposal includes the addition of rubbe parking blocks in the buffer space, spaced at 10 intervals. These are placed close to the travel ane stripe to accomodate cleaning of the bike lane. Travellanes are narrowed to $10^{\prime}$ and the available street width is reallocated to the bike anes, increasing their width to 6.5 .

## CROSS-SECTION LOCATIONS:




## SHEET 1 OF 7

## BICYCLE FACILITY ENHANCEMENT

E. ROLLING HILLS RD. PROTECTED BIKE LANE

## NOTES:

On E. Rolling Hills Dr. at the intersection with $N$. College Ave. the existing conditions include two travel lanes and a dedicated left-turn lane onto N. College Ave. The protected bike lanes on E. Rolling Hills Dr. terminate on the approach to the intersection with the addition of a turn lane
he proposal calls for narrowing the travel lanes on E. Rolling Hills Dr. to 10 ' to allow for bike lanes to extend to the intersection and facilitate movements across to Fiesta Dr. Reflective but tons are added on the bike lane stripe in the the three-lane section, and $3^{\prime}$ rubber parking buffers separated at $10^{\prime}$ intervals are placed in the separated at 10 intervals are placed in the buffer when the road reduces to two travel
lanes. Vertical flex bollards replace the rubber parking buffers at intersections with streets.

The protected bike lanes continue east on E . Rolling Hills Dr. with dashed line breaks in the white paint buffers when crossing driveways and intersections. Green paint is added at conflict points with intersecting streets and commercial driveways.

Data Source(s):
City of Fayetteville Aerial Photography


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## SHEET 2 OF 7

BICYCLE FACILITY ENHANCEMENT
E. ROLLING HILLS RD. PROTECTED BIKE LANE

## NOTES:

The protected bike lanes continue on E. Rolling Hills Dr. with dashed line breaks in the white paint buffers when crossing driveways and the intersections. Green paint is added at conflict points with intersecting streets and commercial driveways.

Rubber parking buffers spaced at $10^{\prime}$ intervals are placed in the buffer between the bike lane and the travel lanes. Vertical flex bollards re place the rubber parking buffers at intersections with streets.

Travel lanes have been reduced to $10^{\prime}$ to accom date the $6.5^{\prime}$ bike lanes and the $3^{\prime}$ buffers.

## CROSS-SECTION LOCATIONS

## 1

$\square$
$50^{\prime}$
100
N




## SHEET 4 OF 7

BICYCLE FACILITY ENHANCEMENT
E. ROLLING HILLS RD. PROTECTED BIKE LANE

CROSS-SECTION LOCATIONS

sheet location


## NOTES:

The protected bike lanes continue on E. Rolling Hills Dr. with dashed line breaks in the white paint buffers when crossing driveways and the intersection with N. Elizabeth Ave. Green paint is added at conflict points with intersecting streets and commercial driveways.

Rubber parking buffers spaced at $10^{\prime}$ intervals are placed in the buffer between the bike lane and the travel lanes. Vertical flex bollards replace the rubber parking buffers at intersection with streets.

Travel lanes have been reduced to $10^{\prime}$ to acco modate the $6.5^{\prime}$ bike lanes and $3^{\prime}$ buffers.


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## SHEET 5 OF 7

BICYCLE FACILITY ENHANCEMENT
E. ROLLING HILLS RD. PROTECTED BIKE LANE


SHEET LOCATION


Data Source(s):
City of Fayetteville Aerial Photography


## SHEET 6 OF 7

## BICYCLE FACILITY ENHANCEMENT

E. ROLLING HILLS RD. PROTECTED BIKE LANE

## NOTES:

The protected bike lanes continue on E. Rolling Hills Dr. with dashed line breaks in the white paint buffers when crossing driveways and the intersection with N. Loxley Ave. Green paint is added at conflict points with intersecting streets and commercial driveways.

Rubber parking buffers spaced at $10^{\prime}$ intervals are placed in the buffer between the bike lane and the travel lanes. Vertical flex bollards re place the rubber parking buffers at intersection with streets.

Travel lanes have been reduced to $10^{\prime}$ to acco modate the $6.5^{\prime}$ bike lanes and $3^{\prime}$ buffers.


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## SHEET 7 OF 7

## BICYCLE FACILITY ENHANCEMENT

E. ROLLING HILLS RD. PROTECTED BIKE LANE

## NOTES: <br> The existing condition on E. Rolling Hills Dr. at the intersection with Old Missouri Rd. includes two 5' buffered bike lanes with $3^{\prime}$ buffers, along with two 11.5' travel lanes. <br> The proposed changes include ending the bike liane on the south half of the road before reaching the intersection, and moving the cycling path onto the sidewalk to connect with the crossing over Old Missouri Rd. to join with the multi-use path on the east side of Old Missouri Rd. This allows for the addition of a right-hand turn travel lane, and the conversion of the exist ing travel lane into a left-hand turn lane. <br> The buffered bike lane on the north side of $E$ Rolling Hills Rd. is widened to $6^{\prime}$ and rubber parking buffers have been introduced into the $3^{\prime}$ buffer spaced at $10^{\prime}$ intervales center to center. All travel lanes have been reduced to $10^{\prime}$ to reduce speeds along the corridor.

Data Source(s):
City of Fayetteville Aerial Photography

