

E. US 290 Area Major Thoroughfare Study

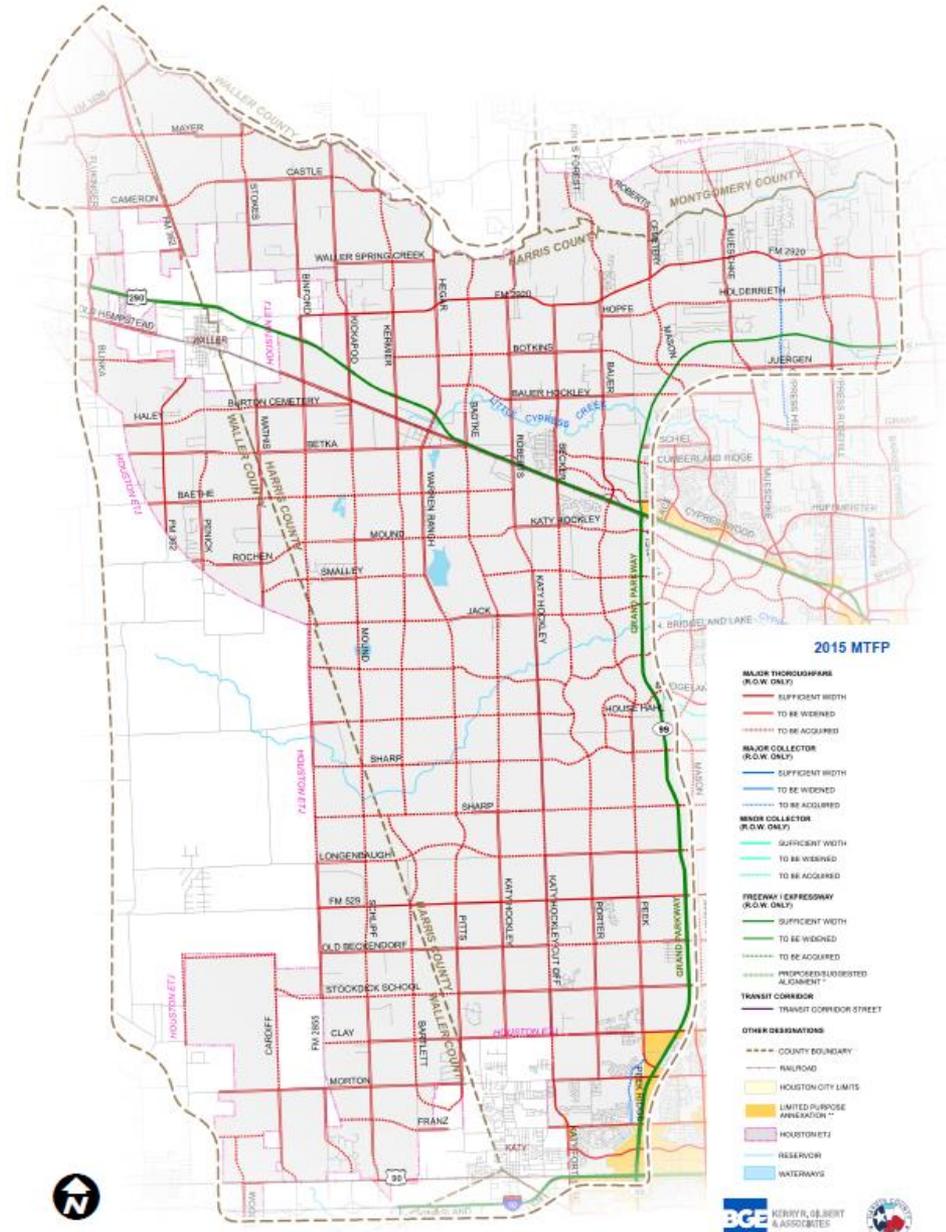
Applicant : Harris County Engineering
Department



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US 290 Area Major Thoroughfare Study

- Study performed by BGE | Kerry R. Gilbert & Associates for Harris County Precinct 3
- Begun July 2015



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Need for Thoroughfare Study

- Completion of the Grand Parkway opens this area for standard development
- Immense regional drainage needs must be addressed before development advances
- Montgomery County MTP updated 1-26-16
- A thoroughfare plan must be implementable and cooperative among all jurisdictions in the region
- Allow for projected growth within the study area



Study Goals

- Coordinate with adjacent municipalities
- Analyze existing network
 - Drainage
 - Population Growth
 - Conservation / Open Space
 - Multi-Modal Transportation Options
- Identify problem areas and propose solutions



Study Timeline & Stakeholders

Stakeholder Coordination

July 2015

- Begin Study
- Stakeholder input/data collection

October 2015

- Draft study and mobility concepts

March 2016

- Study accepted by Harris County Commissioners Court
- Submitted study to City of Houston

May 2016

- Harris County Open House Meeting
- Address public comments

Stakeholders

- Harris County Precinct 3
- HCFCDD (Harris County Flood Control District)
- HCPID (Harris County Public Infrastructure Dept.)
- City of Houston
- Montgomery County
- Waller County
- City of Waller
- major land owners
- Katy Prairie Conservancy



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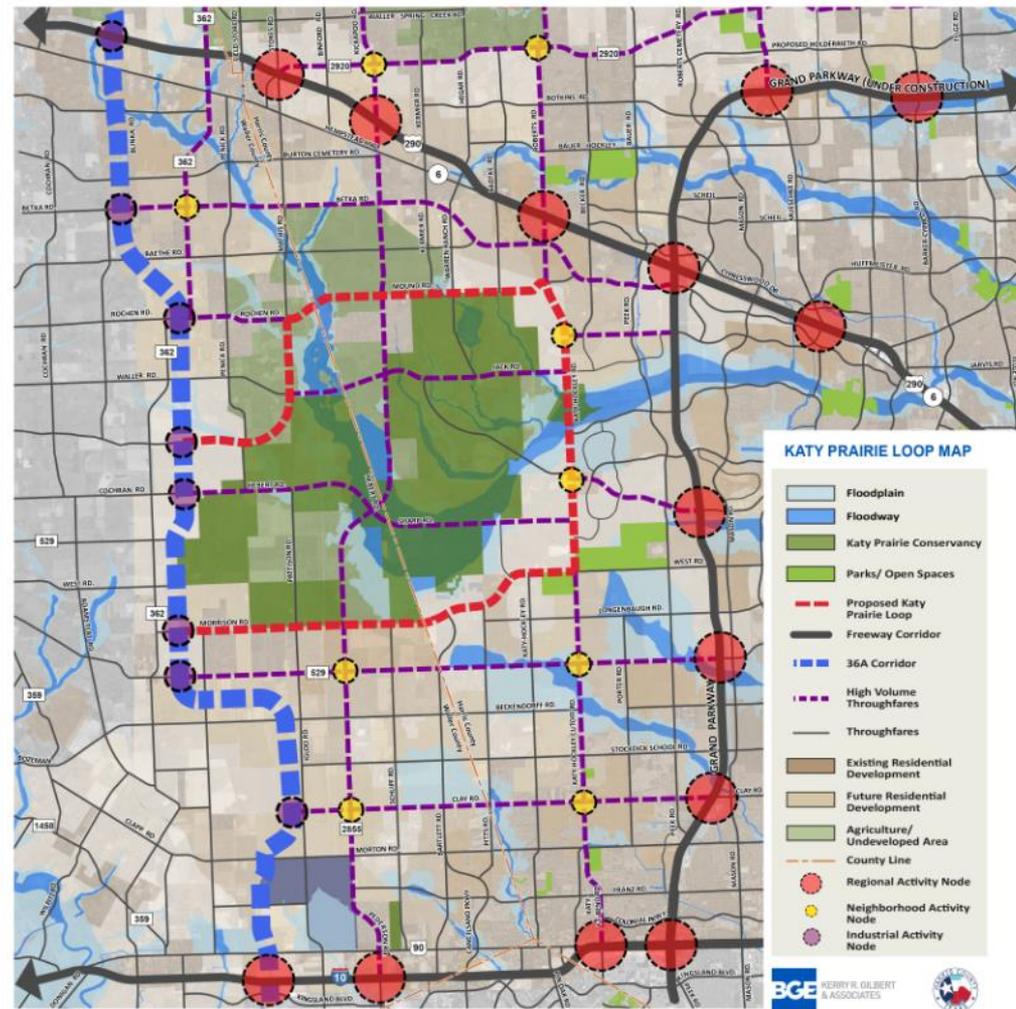
Public Engagement

- Study area identified on 2015 MTFP Map
- Newspaper notification (Chronicle and others)
- Press release (through News Router)
- Display on Harris County website
- County Open House Meeting on May 2nd
- On-site and online comment forms
- Continuing public engagement via City of Houston amendment process



Study Results

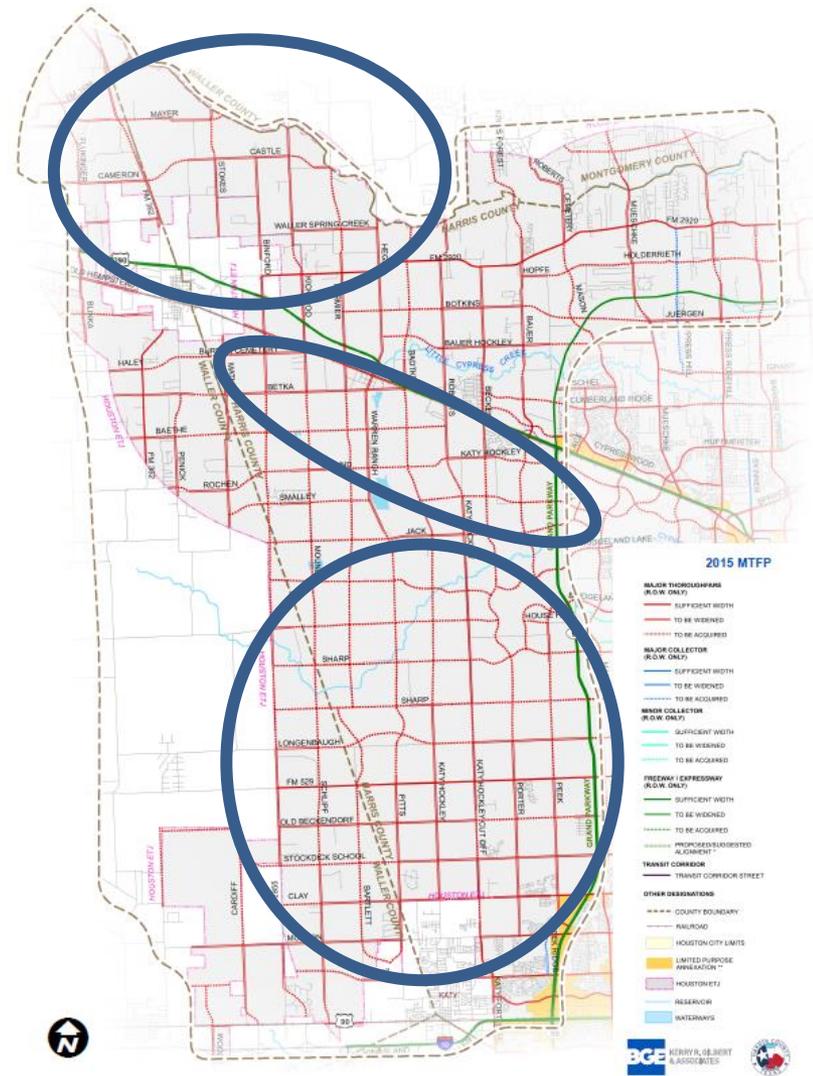
- Propose a regional mobility solution that addresses three key components
 - Coordination
 - Improve US 290 Mobility
 - Environmental Constraints
- Identify Houston MTFP Amendments



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Three Houston Amendment Groups

- Group 1 – City/County Coordination
- Group 2 – US 290 Parallel Facility
- Group 3 – Cypress Creek drainage considerations



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Group 1

City / County Coordination

Minor changes to coordinate with adjacent jurisdictions and to reflect existing conditions that impact small thoroughfare segments



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Group 1 Amendments



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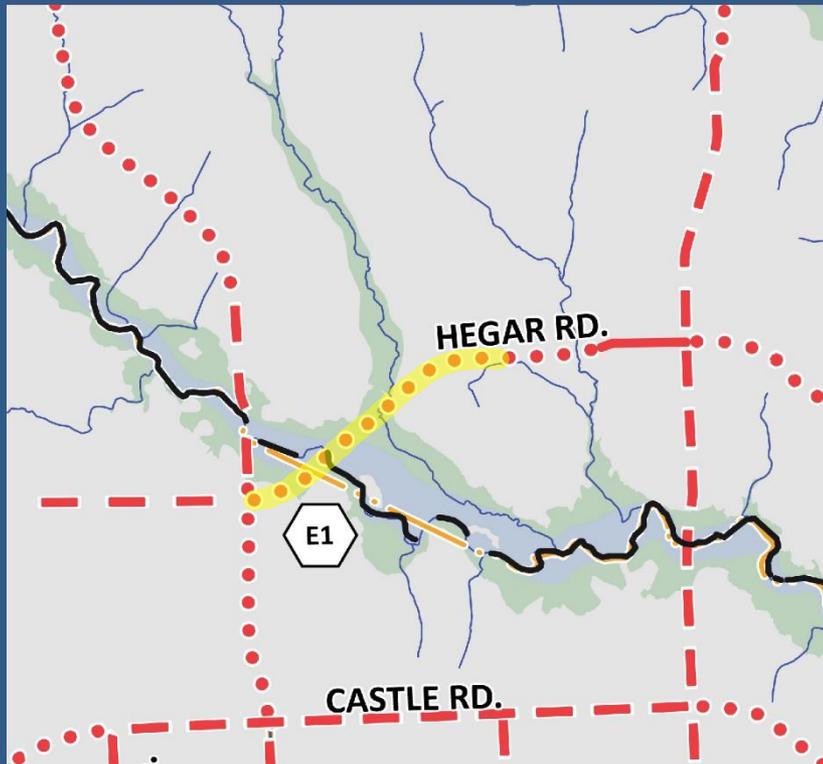
#E-1

(Study #1)
Realign Mayer Rd

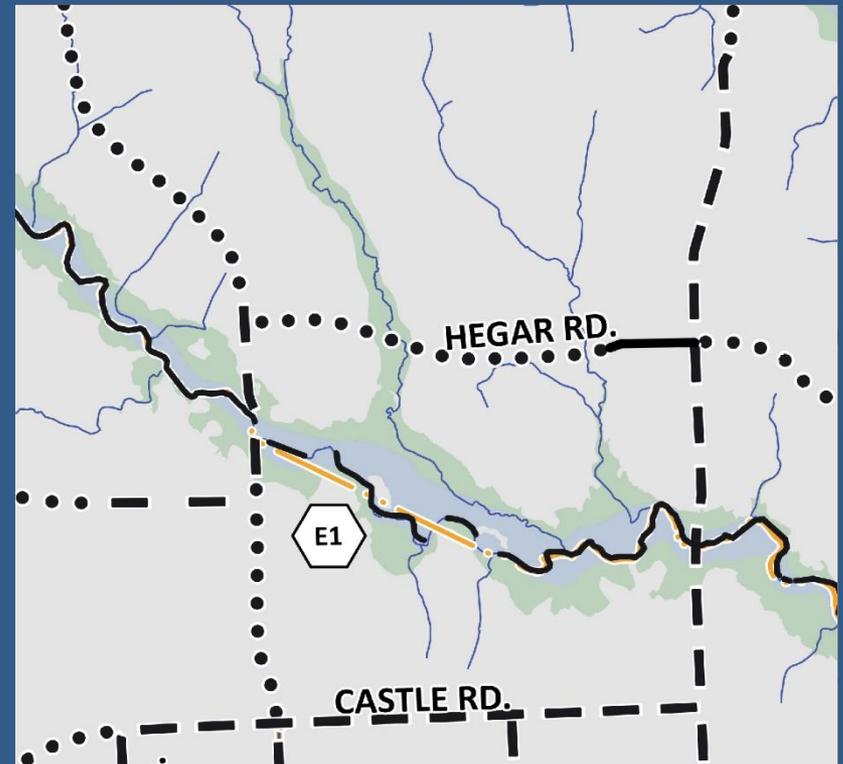
Group 1

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Mayer Road (aka Hegar Rd)	T-4-100	(proposed)	T-4-100
Realign Mayer Rd, aka Hegar Rd, to intersect Stokes Rd north of Spring Creek and therefore avoid a major bridge crossing			

Current Alignment



Proposed Revision



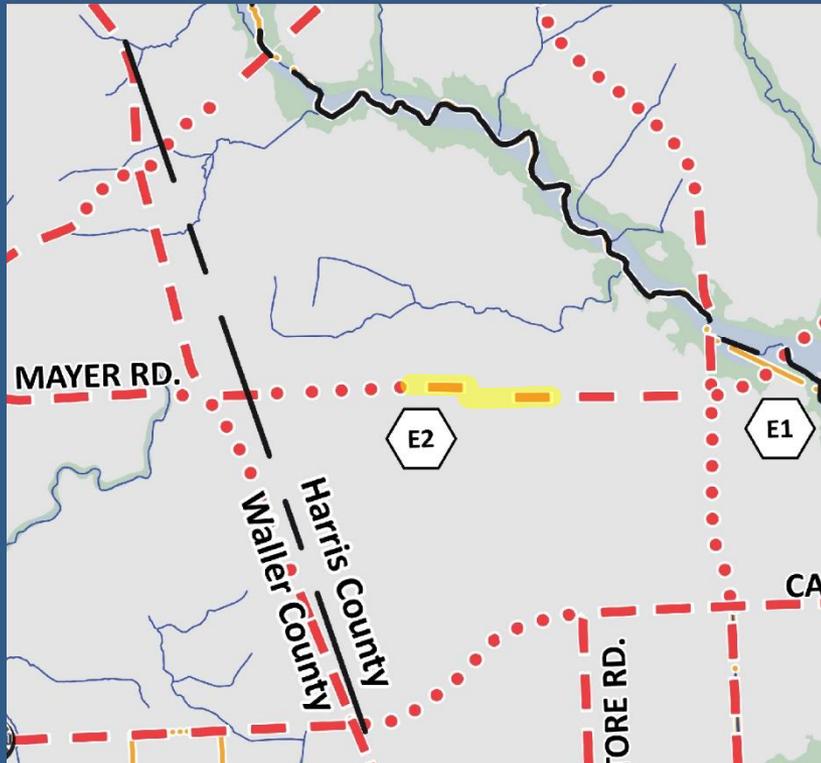
#E-2

(Study #2)
Realign Mayer Rd

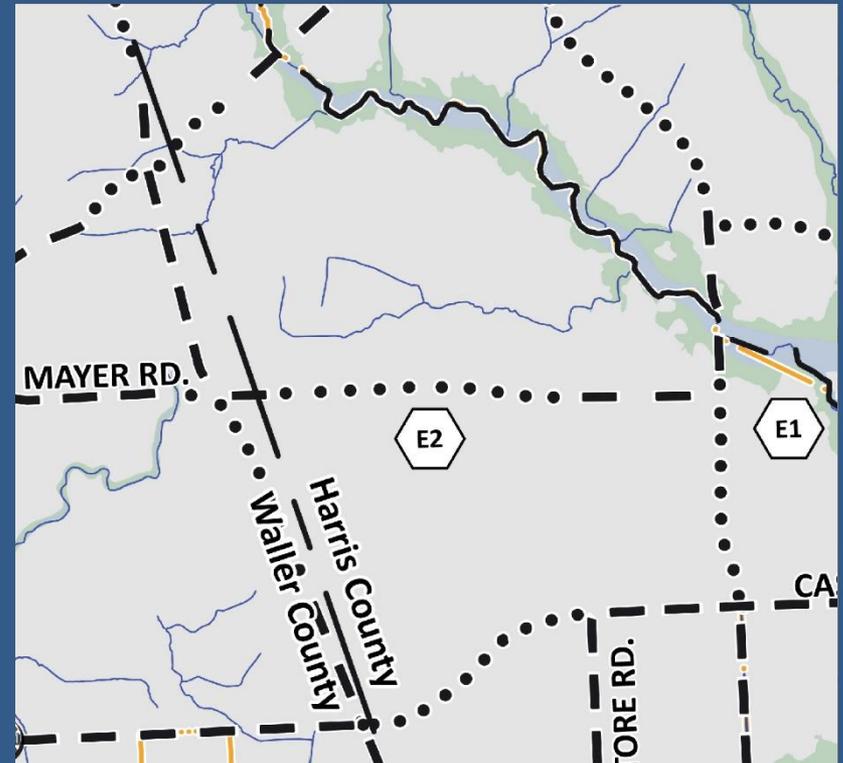
Group 1

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Mayer Road	T-4-100	(proposed)	T-4-100
Realign Mayer Rd to remove +/-250' jog in the existing paving			

Current Alignment



Proposed Revision



#E-3

(Study #3)

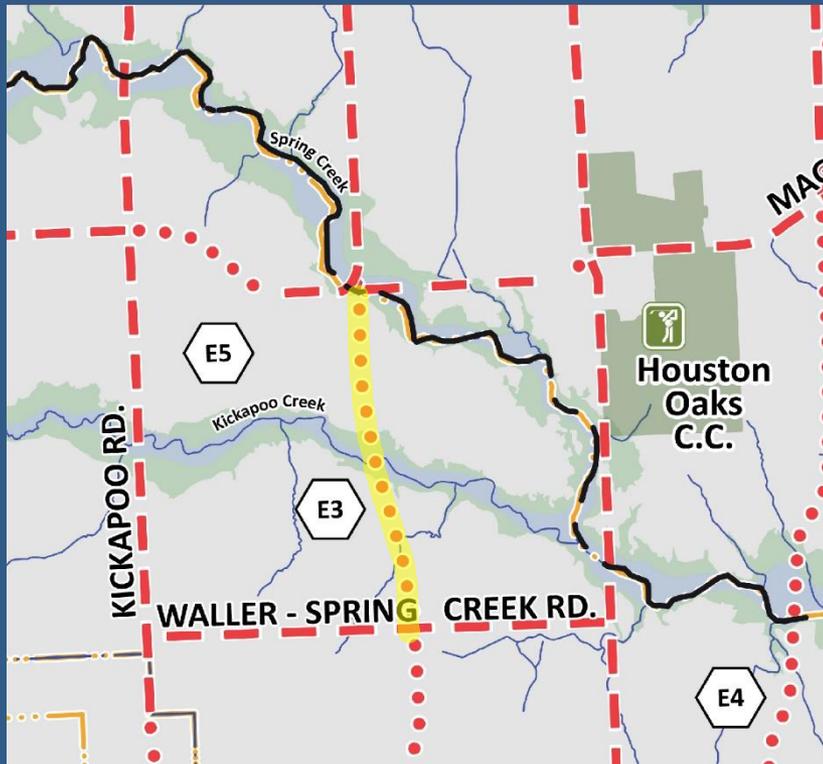
Delete Kermier Rd

Group 1

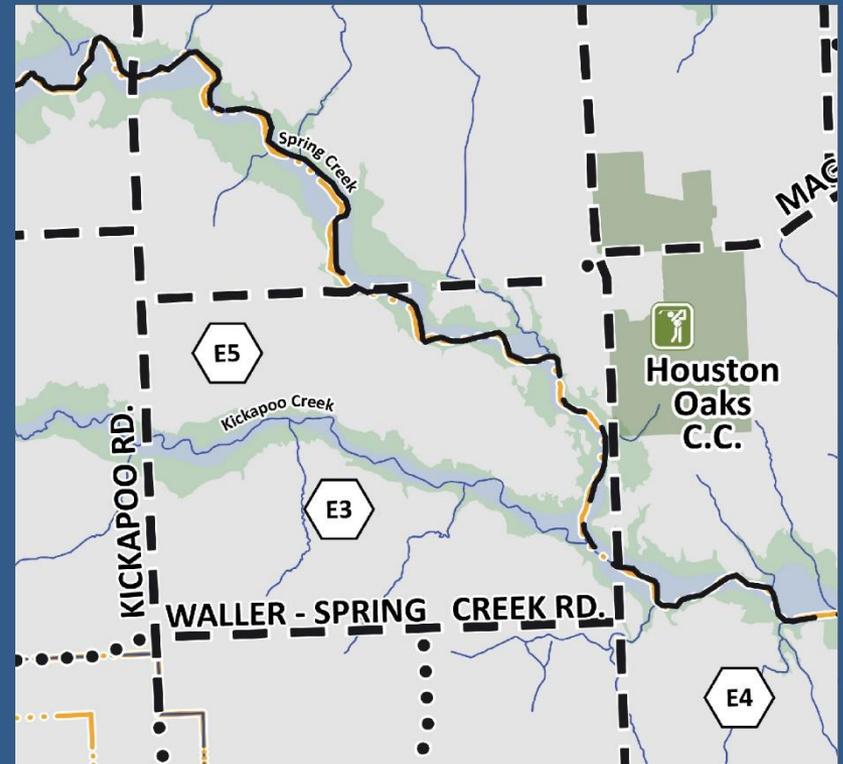
Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Kermier Road	T-4-100	(proposed)	-----

Delete Kermier Road to avoid two major bridge structures within a 1/2 mile and to avoid currently proposed major intersection directly over Spring Creek

Current Alignment



Proposed Revision



#E-4

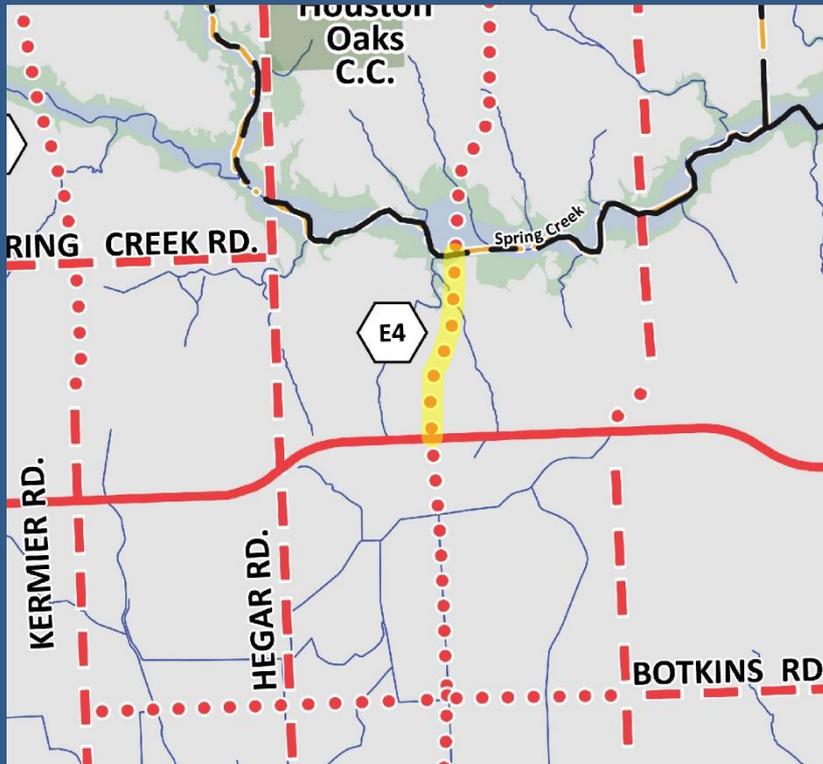
(Study #4)
Delete Badtke Rd

Group 1

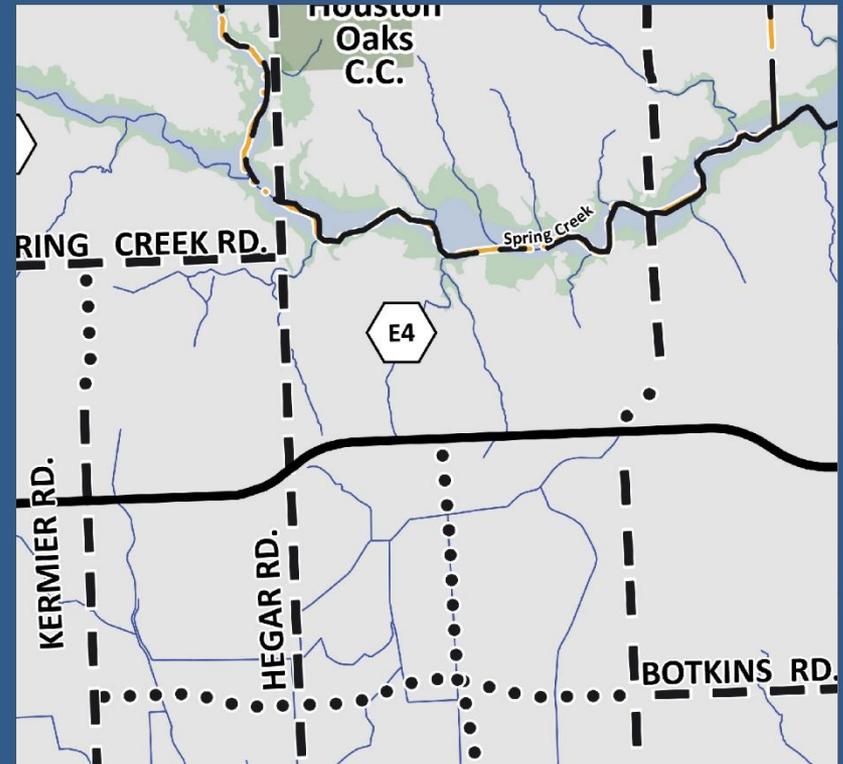
Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Badtke Road	T-4-100	(proposed)	-----

Delete Badtke Road to avoid approx. +/-2,000' of physical constraints between Spring Creek floodway and HL&P easement

Current Alignment



Proposed Revision



#E-5

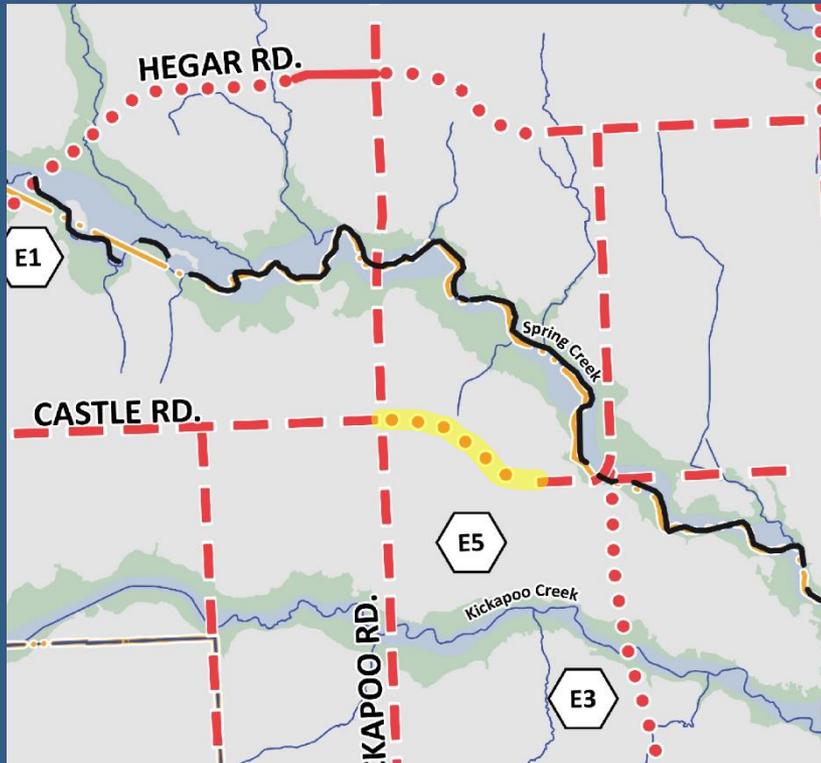
(Study #11)
Realign Castle Rd

Group 1

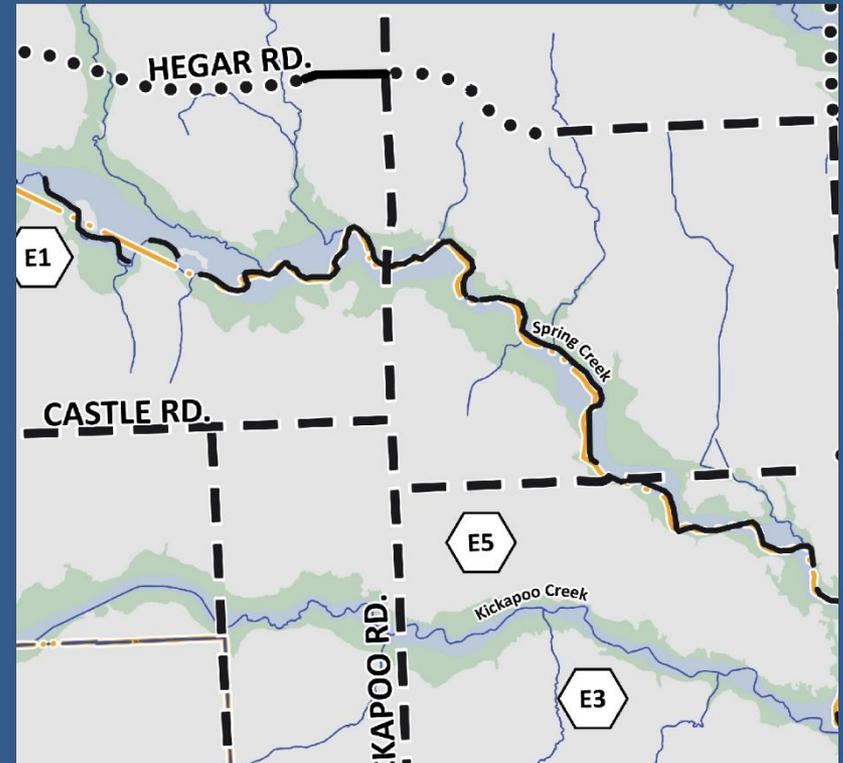
Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Castle Road / Magnolia Road	T-4-100	(proposed)	T-4-100

Realign Castle Rd to maintain current paving with +/-1,660' intersection jog on Kickapoo Rd (remove reverse-curve alignment from the map)

Current Alignment



Proposed Revision



#E-6

(Study #6A)
Add Waller Spring
Creek Rd

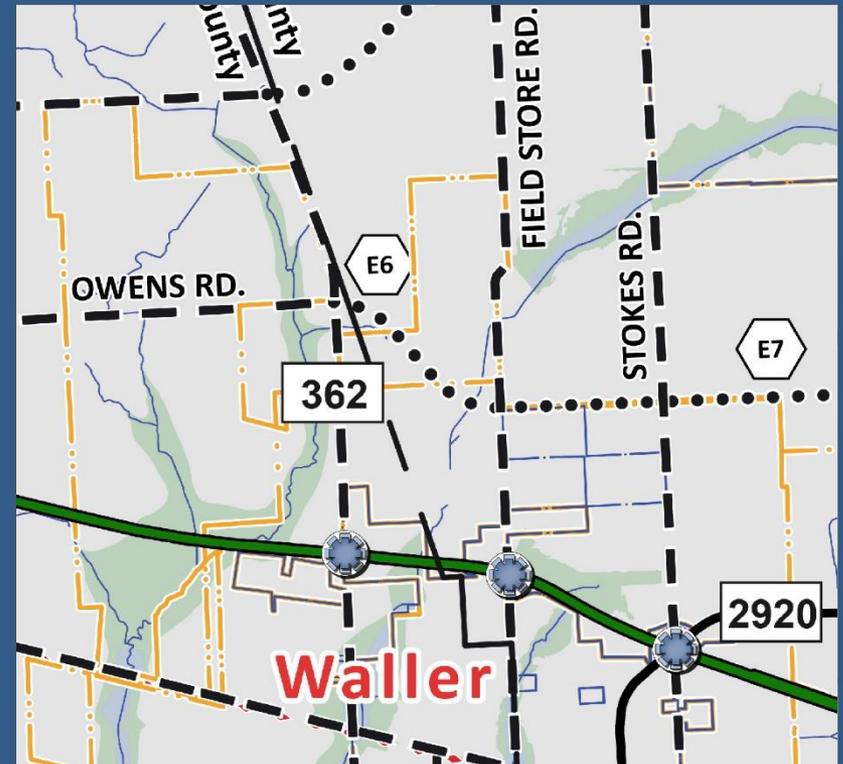
Group 1

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Waller Spring Creek Rd	-----	-----	T-4-100
Add existing Waller Spring Creek Rd and connect to Owens Rd in Waller County to promote east-west connectivity			

Current Alignment



Proposed Revision



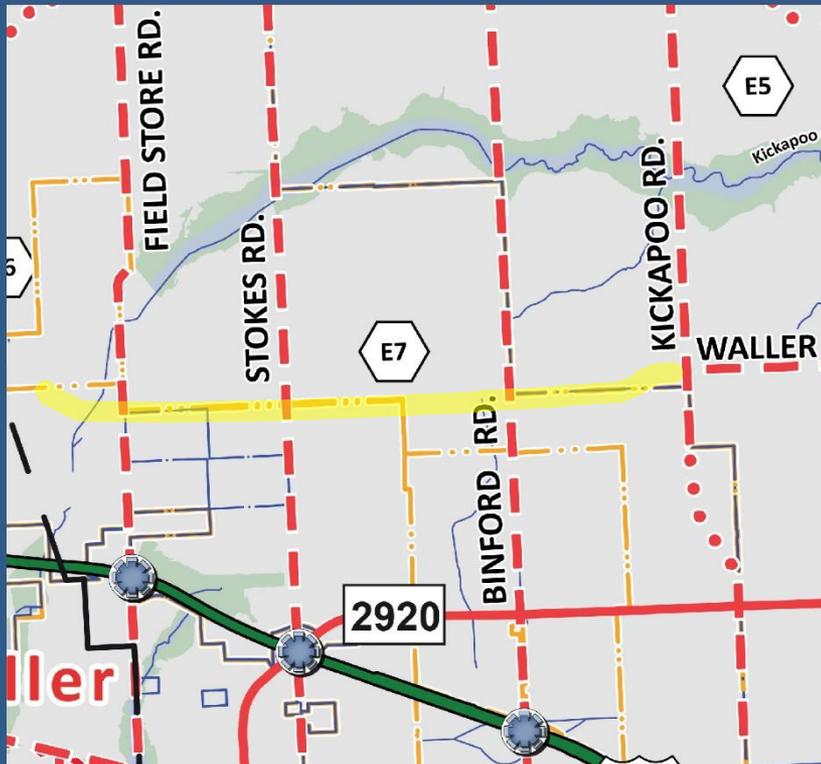
#E-7

(Study #6C)
Add Waller Spring
Creek Rd

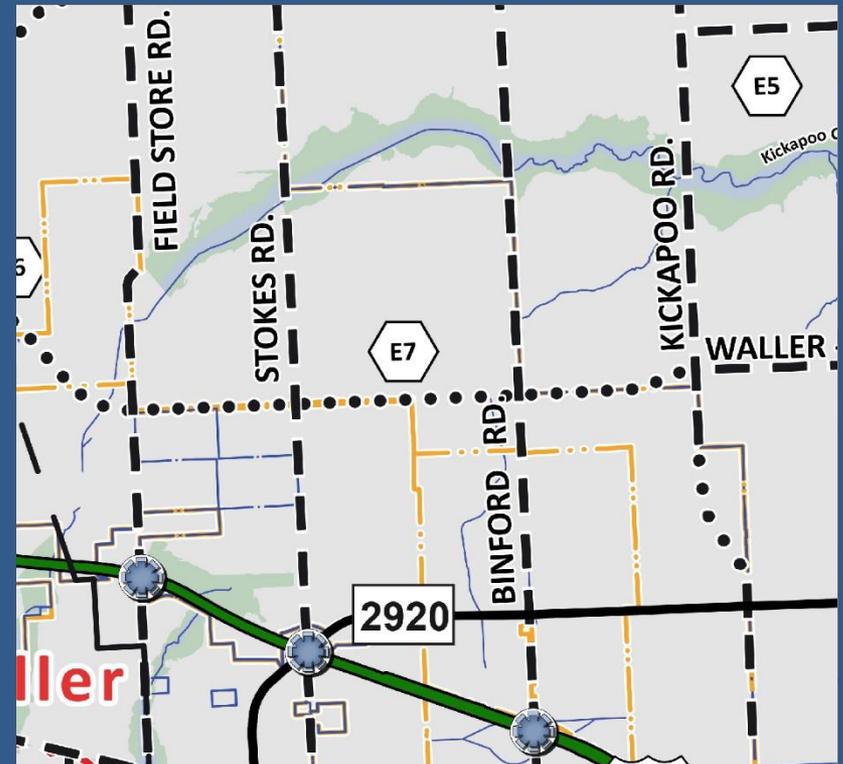
Group 1

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Waller Spring Creek Rd	-----	Partially existing 2-lane asphalt	T-4-100
Add existing Waller Spring Creek Rd and connect to Owens Rd in Waller County to promote east-west connectivity			

Current Alignment



Proposed Revision



#E-8

(Study #5)
Realign Cypress Hill Road

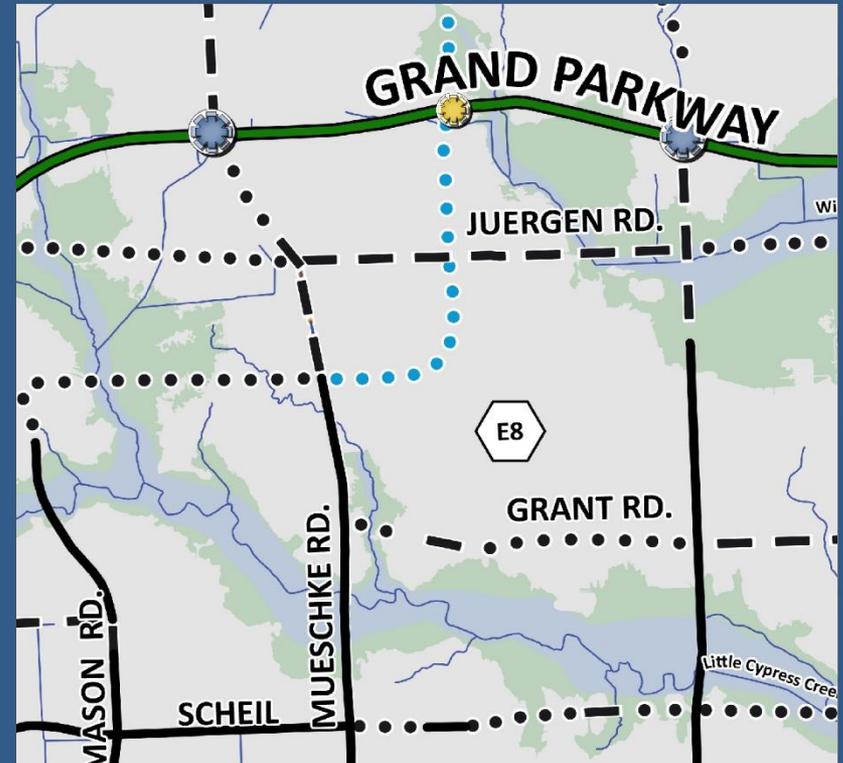
Group 1

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Cypress Hill Rd	MJ-4-80	(proposed)	MJ-4-80
Realign Cypress Hill Rd to connect to the proposed intersection of Mueschke Rd & Bauer Hockley Rd			

Current Alignment



Proposed Revision



#E-9

(Study #12)
Delete Binford Rd

Group 1

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Binford Road	T-4-100	(proposed)	-----
Delete this segment of Binford Rd due to lack of railroad crossing – thoroughfare dead-ends at railroad			

Current Alignment



Proposed Revision



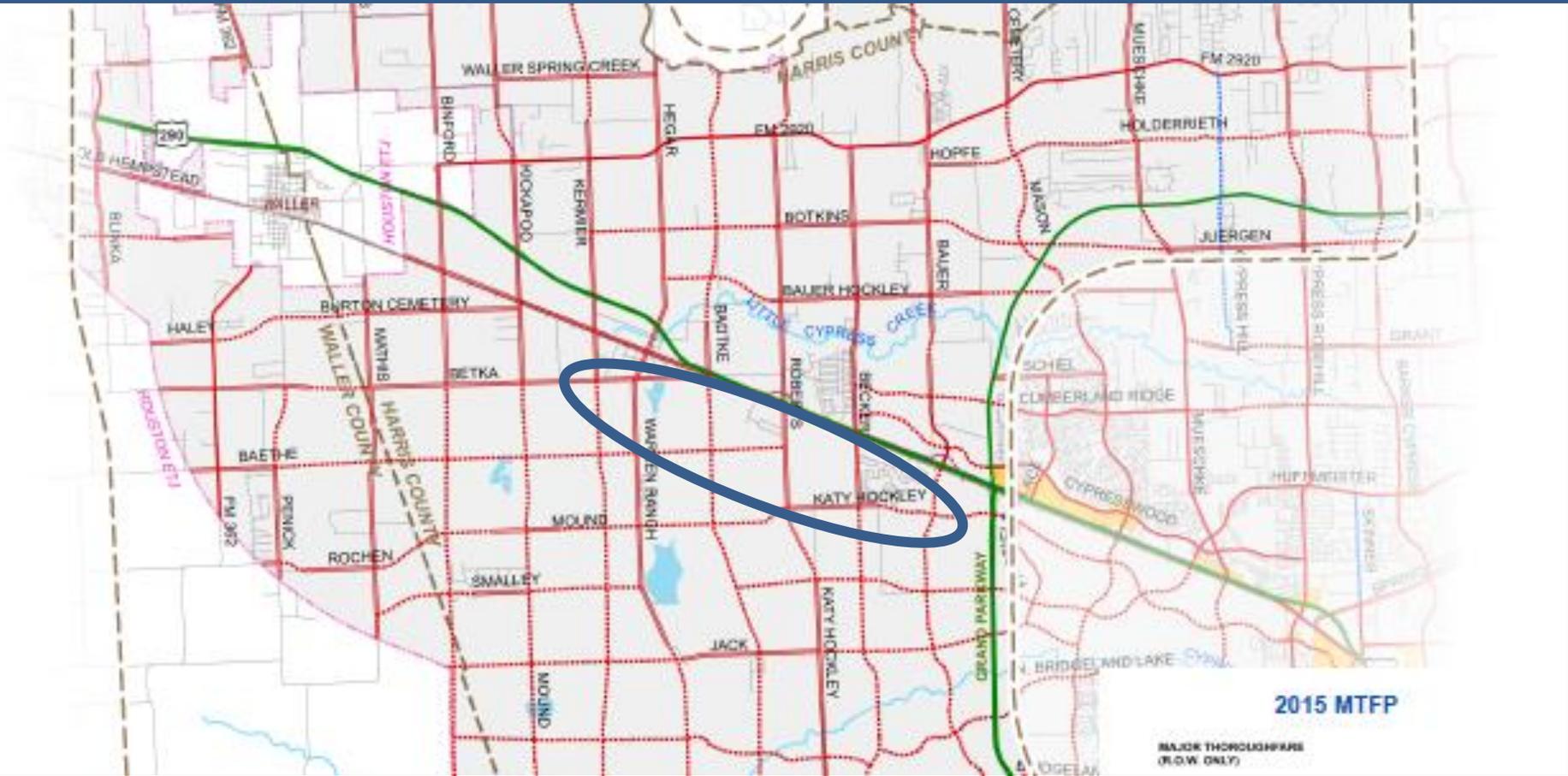
Group 2

US 290 Parallel Access

Create a thoroughfare parallel to the south side of US 290 that increases east-west mobility and property access



Group 2 Amendments



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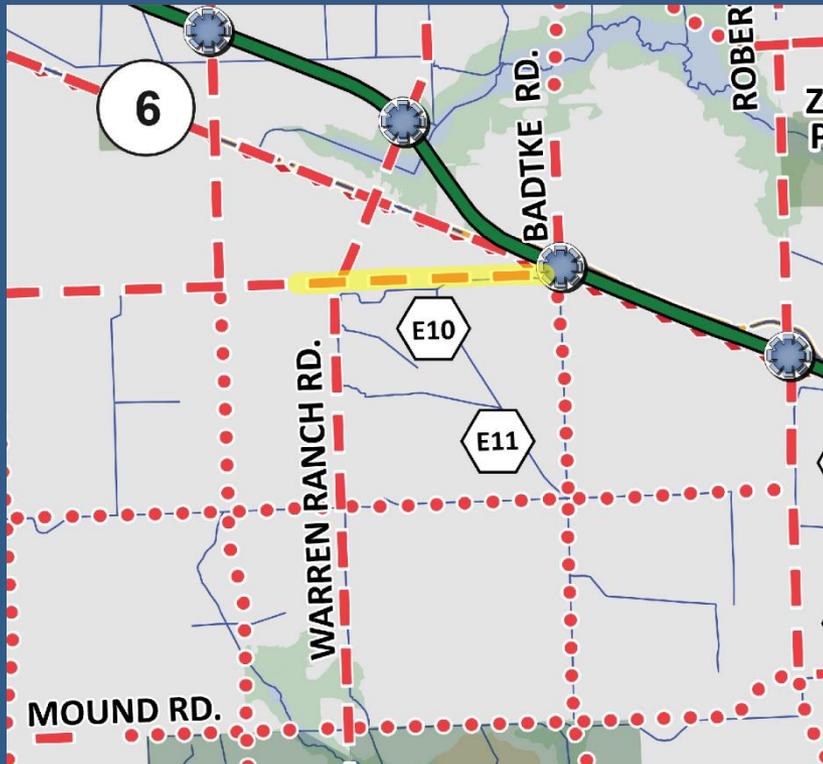
#E-10

(Study #7)
Realign Betka Rd

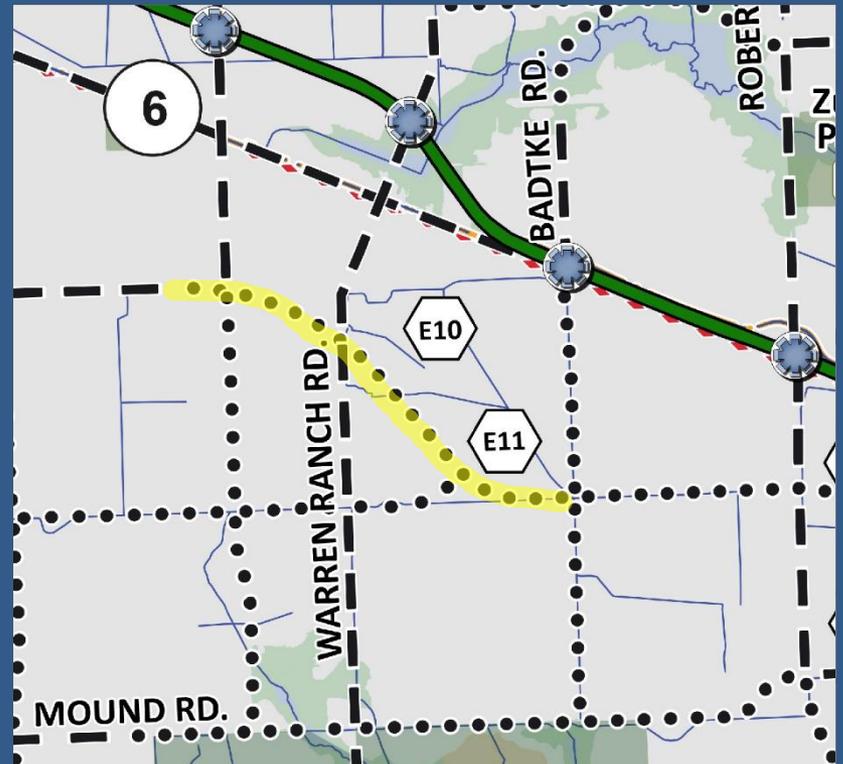
Group 2

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Betka Road	T-4-100	Existing 2-lane asphalt	T-4-100
Realign Betka Road to connect to Badtke Rd further south, at the proposed intersection with future Mound Rd			

Current Alignment



Proposed Revision



#E-11

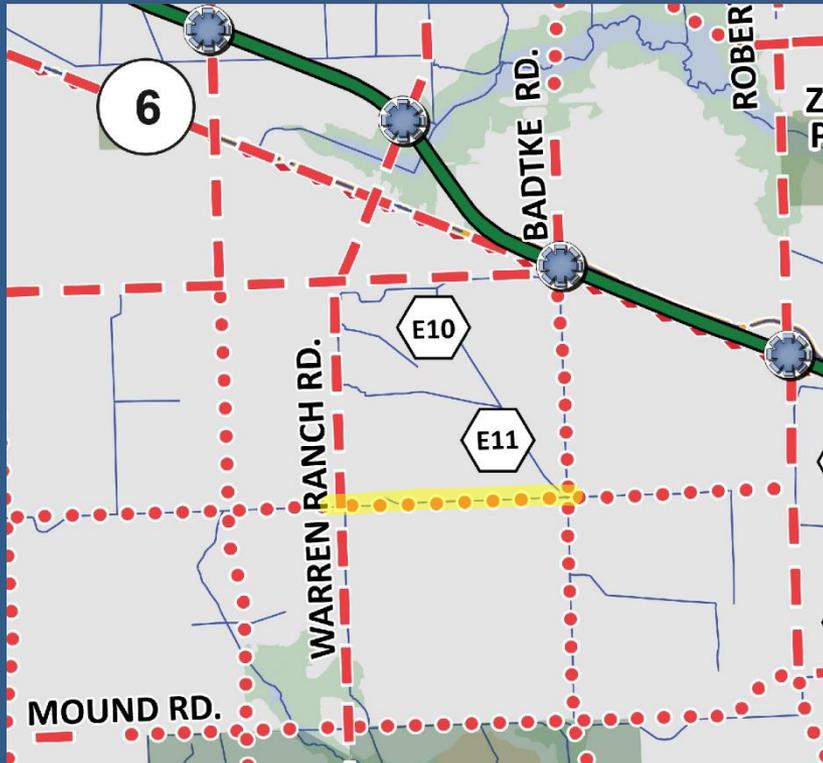
(Study #10)

Realign Baethe Rd

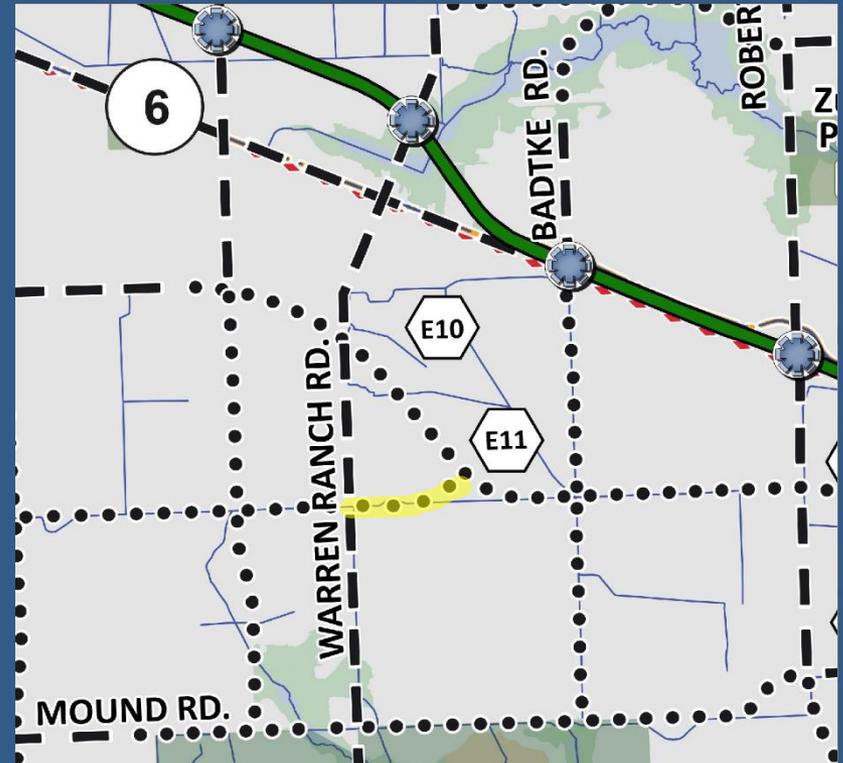
Group 2

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Baethe Road	T-4-100	(proposed)	T-4-100
Realign Baethe Road from Warren Ranch Rd to tee into the proposed realignment of Betka Rd (future Mound Rd)			

Current Alignment



Proposed Revision



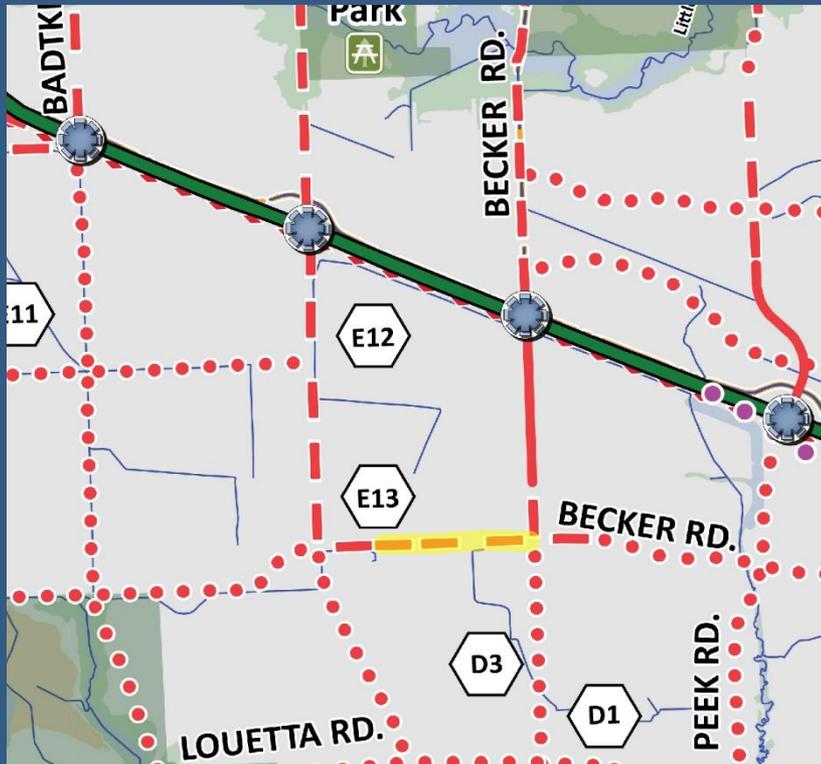
#E-12

(Study #8A)
Realign House Rd

Group 2

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Mayer Road (aka Hegar Rd)	T-4-100	Existing 2-lane asphalt	T-4-100
Realign House Rd to connect to Katy Hockley Rd further north and align with Betka Rd realignment (future Mound Rd)			

Current Alignment



Proposed Revision



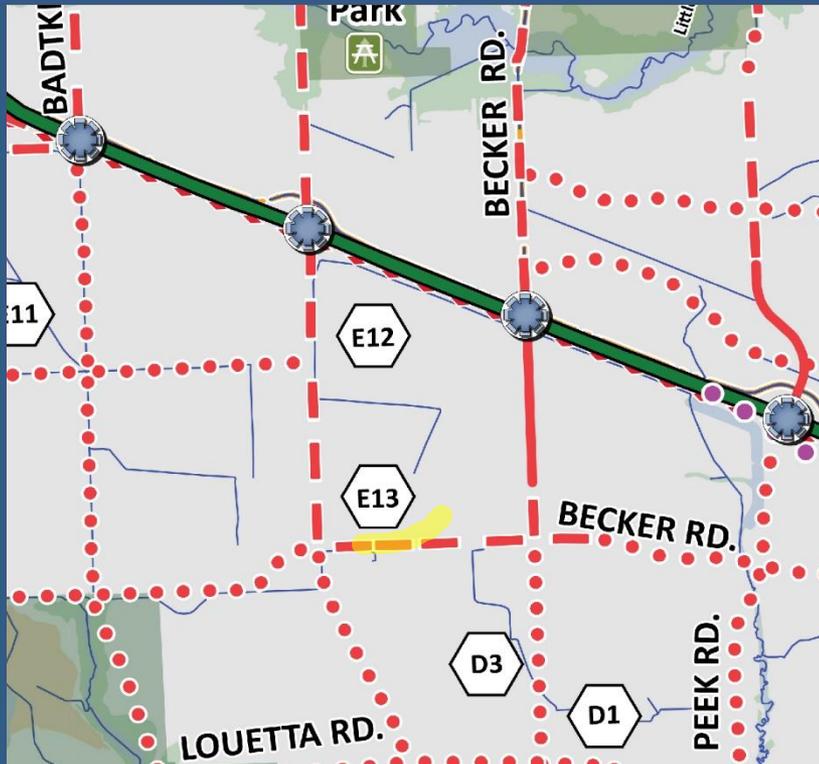
#E-13

(Study #8B)
Add Katy Hockley
Road

Group 2

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Katy Hockley Road	----	-----	T-4-100
Add a connection from existing Katy Hockley Road to connect to realignment of House Rd (future Mound Rd)			

Current Alignment



Proposed Revision



Group 3

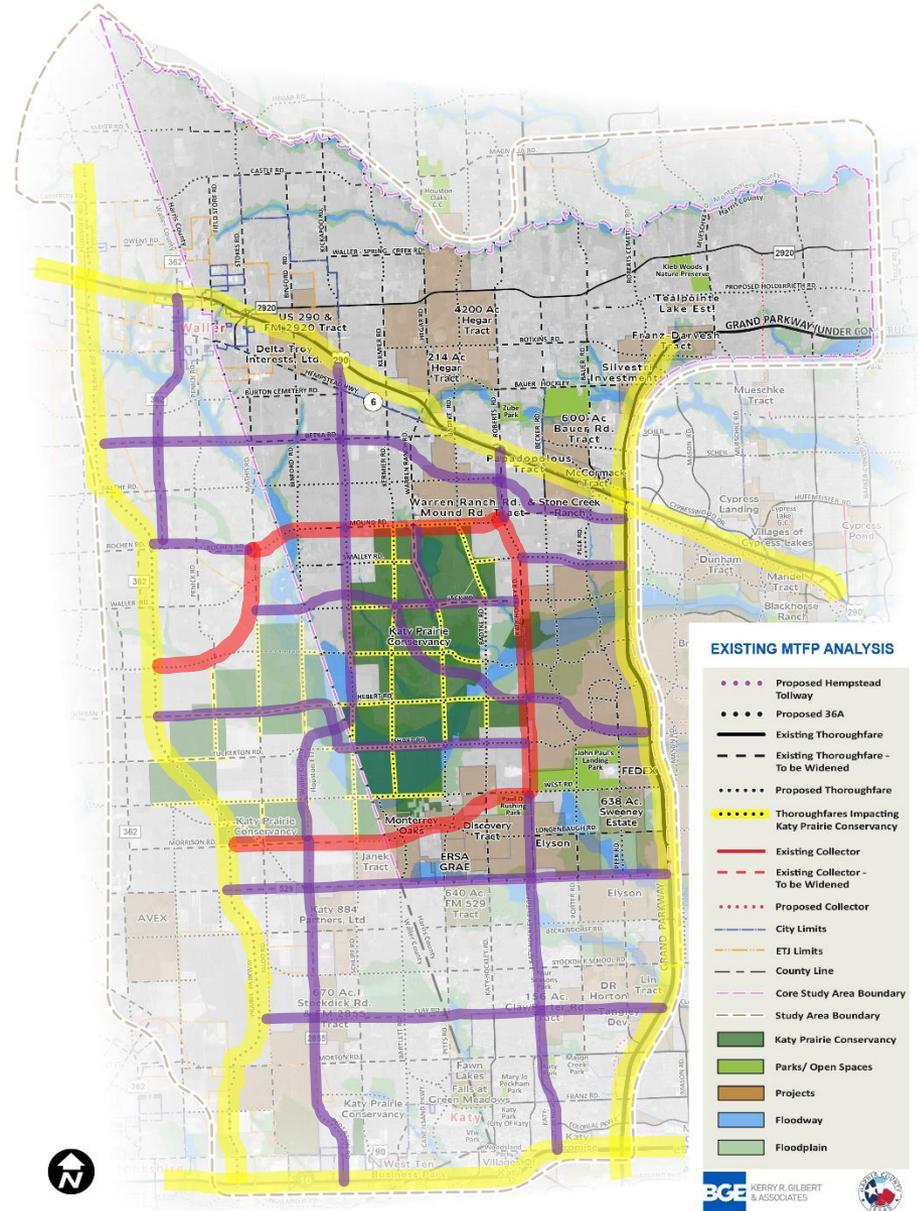
Cypress Creek Drainage

Implement a plan that reflects the realities of development in the Cypress Creek drainage shed and Katy Prairie environment



Mobility Challenges

- Drainage challenges from Cypress Creek and the Katy Prairie environment
- Current plan cannot feasibly be implemented

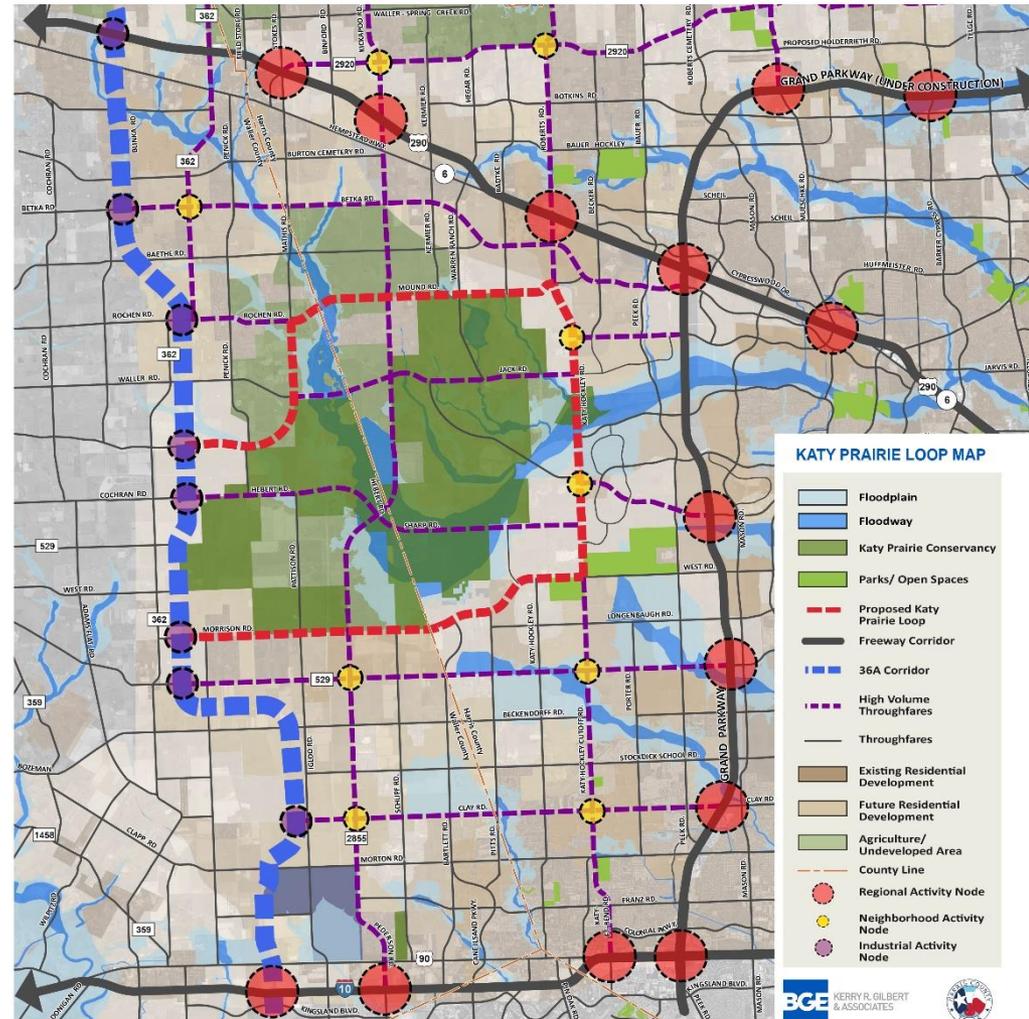


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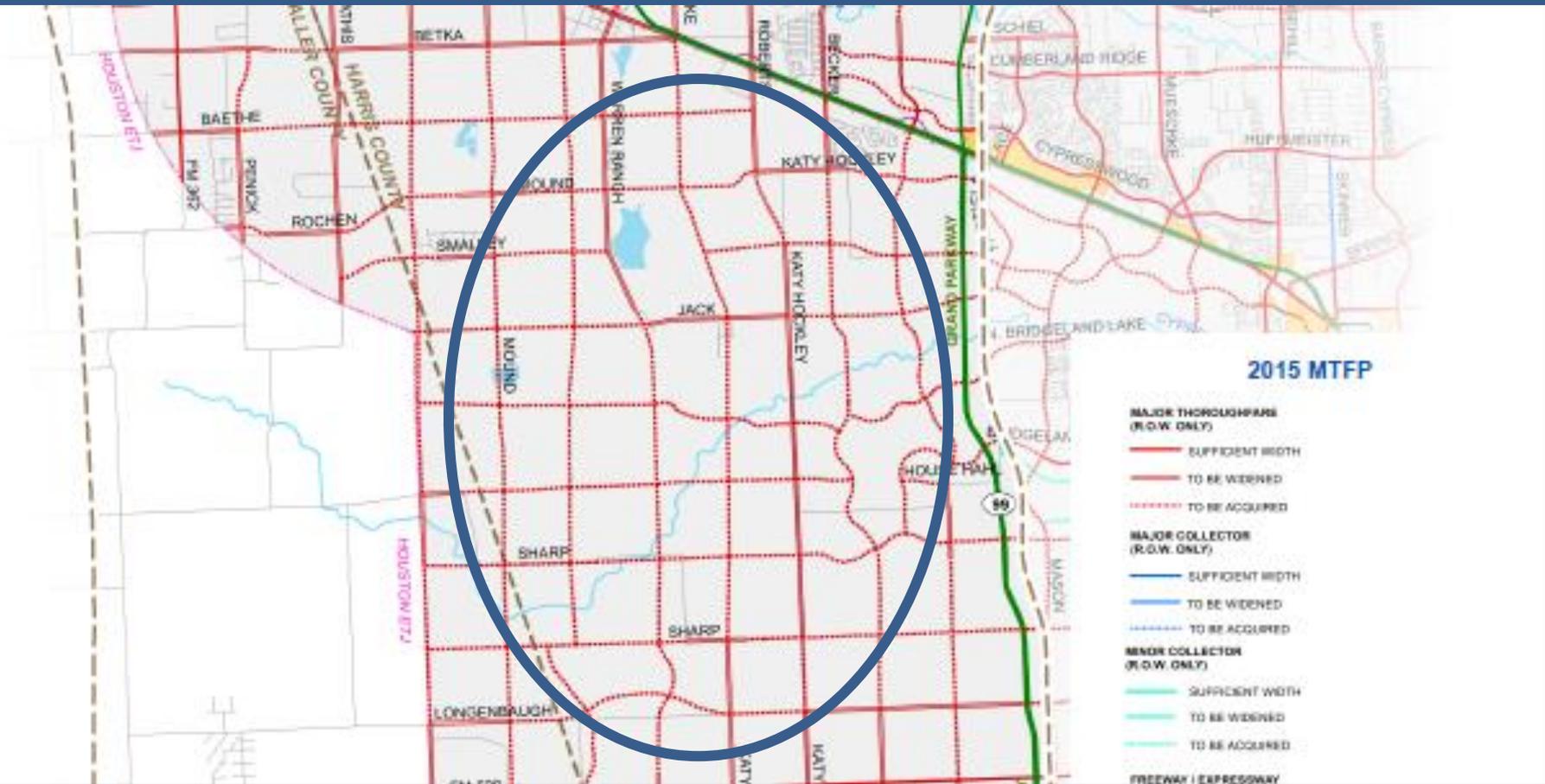
Mobility Solutions

- Projected growth requires a feasible thoroughfare plan
- Creative mobility solutions are necessary to create a plan that can be implemented and scaled accordingly



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Group 3 Amendments



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#E-14

(Study #13)
Delete Binford Rd

Group 3

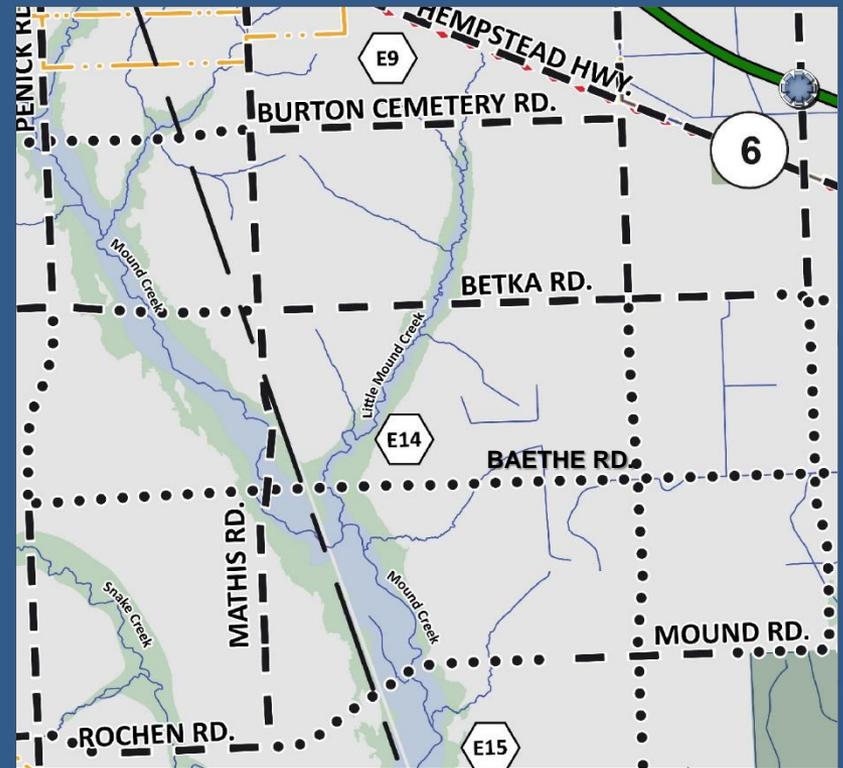
Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Binford Road	T-4-100	(proposed)	-----

Delete Binford Road segment within the Mound Creek & Little Mound Creek floodway/floodplain

Current Alignment



Proposed Revision



#E-15

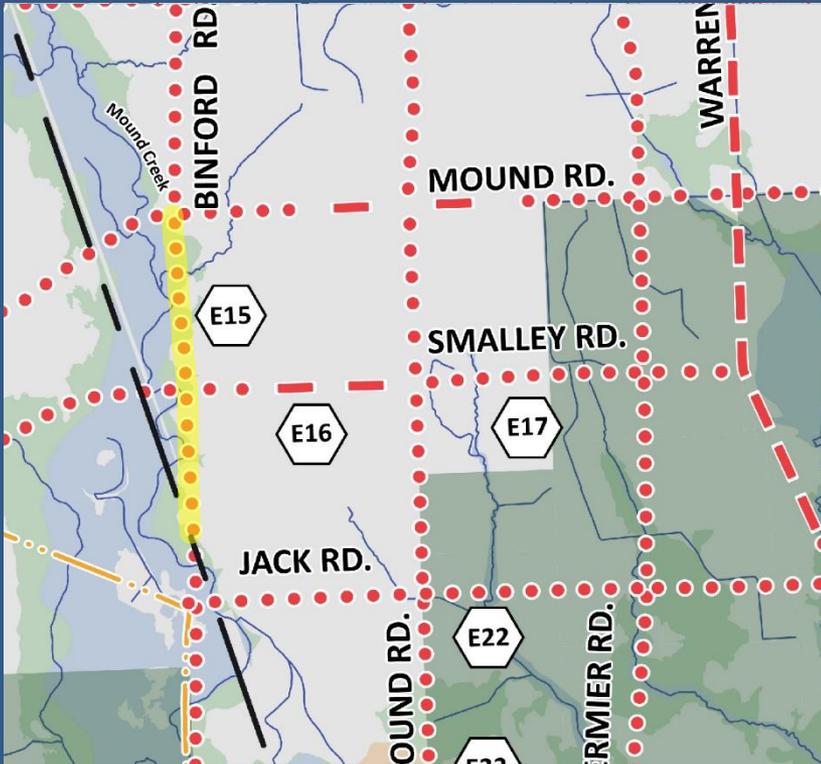
(Study #14)
Delete Binford Rd

Group 3

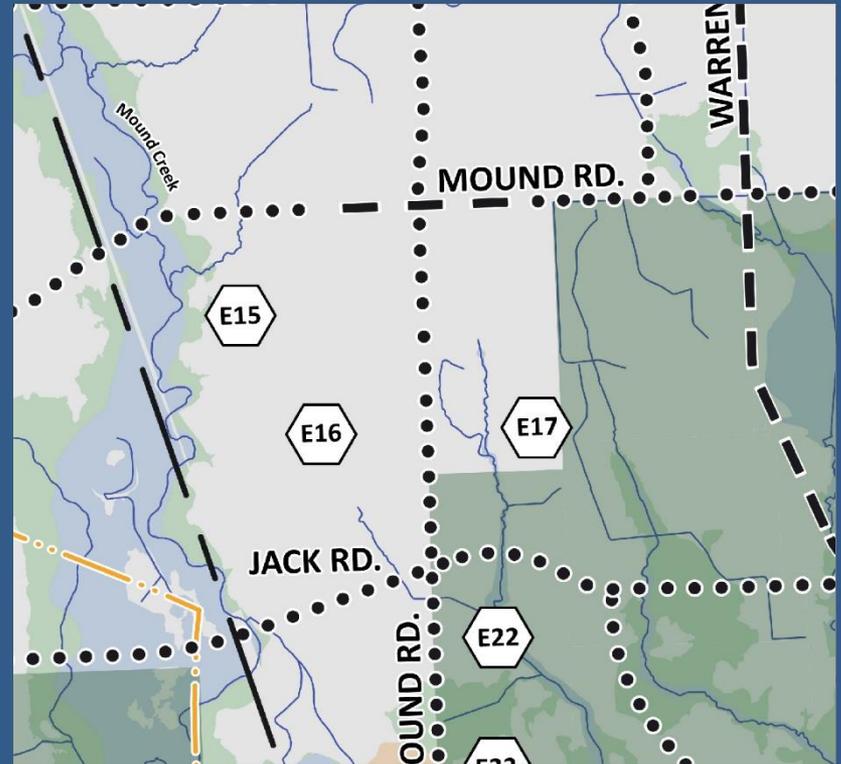
Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Binford Road	T-4-100	(proposed)	-----

Delete Binford Road segment where impacted by +/- 10,000' of Mound Creek floodway/floodplain and existing neighborhood

Current Alignment



Proposed Revision



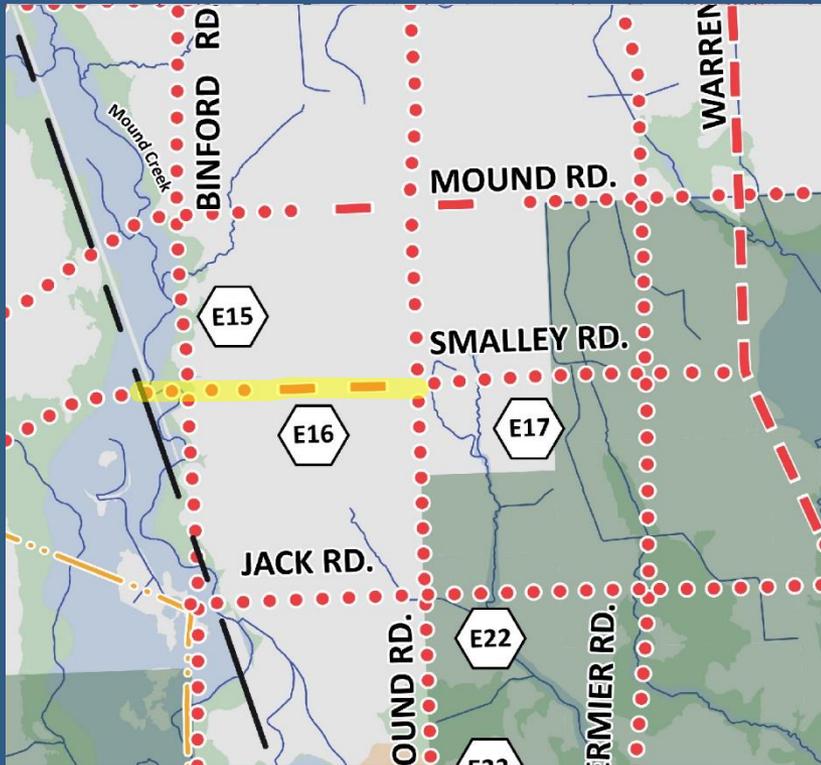
#E-16

(Study #16)
Delete Smalley Rd

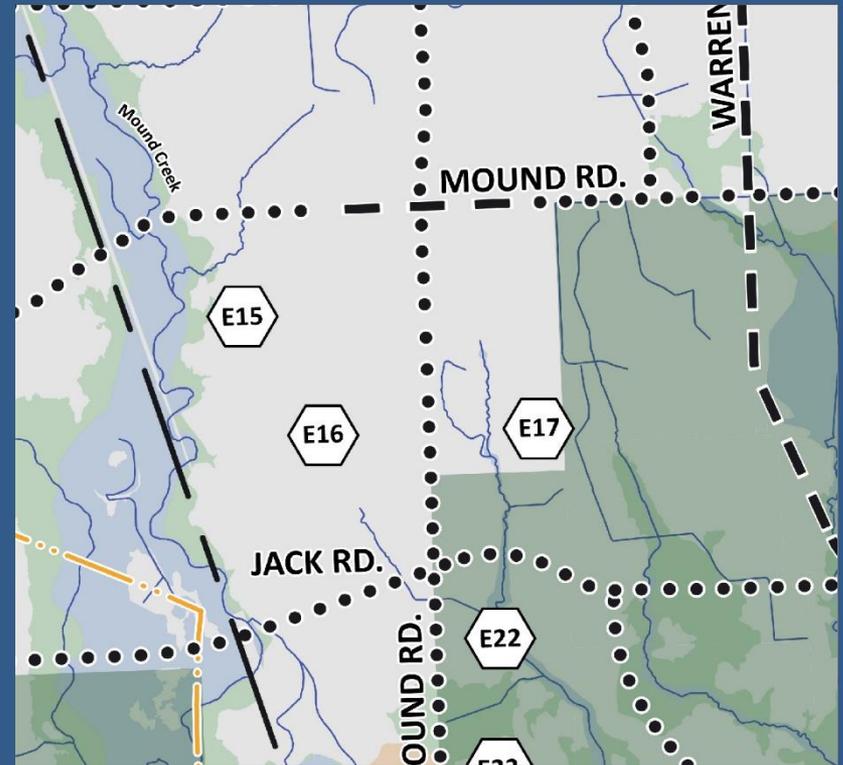
Group 3

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Smalley Road	T-4-100	Partial segment 2-lane asphalt	-----
Delete Smalley Road segment where impacted by an existing neighborhood			

Current Alignment



Proposed Revision



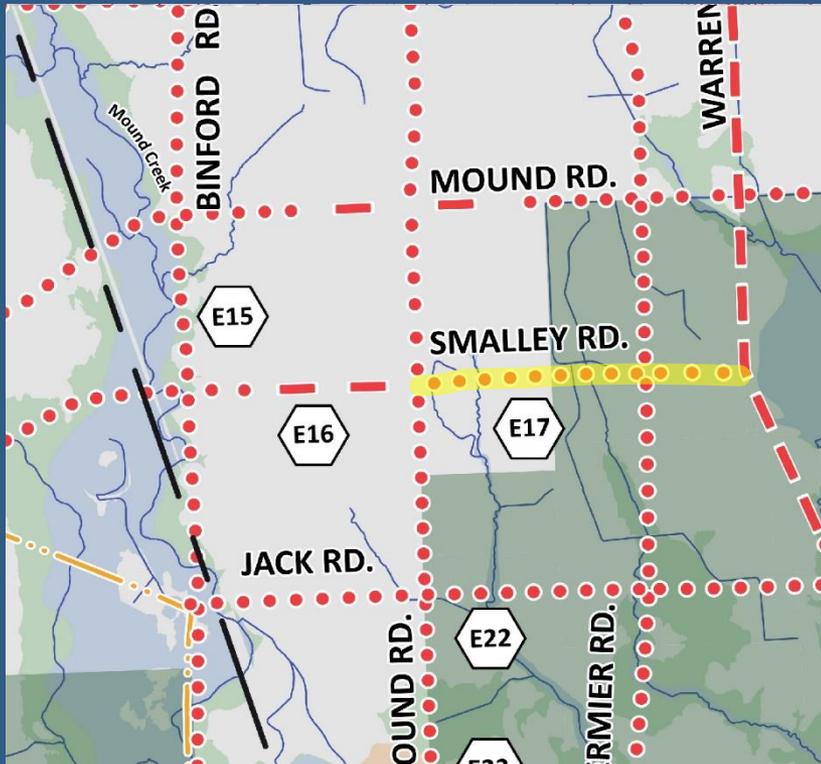
#E-17

(Study #17)
Delete Smalley Rd

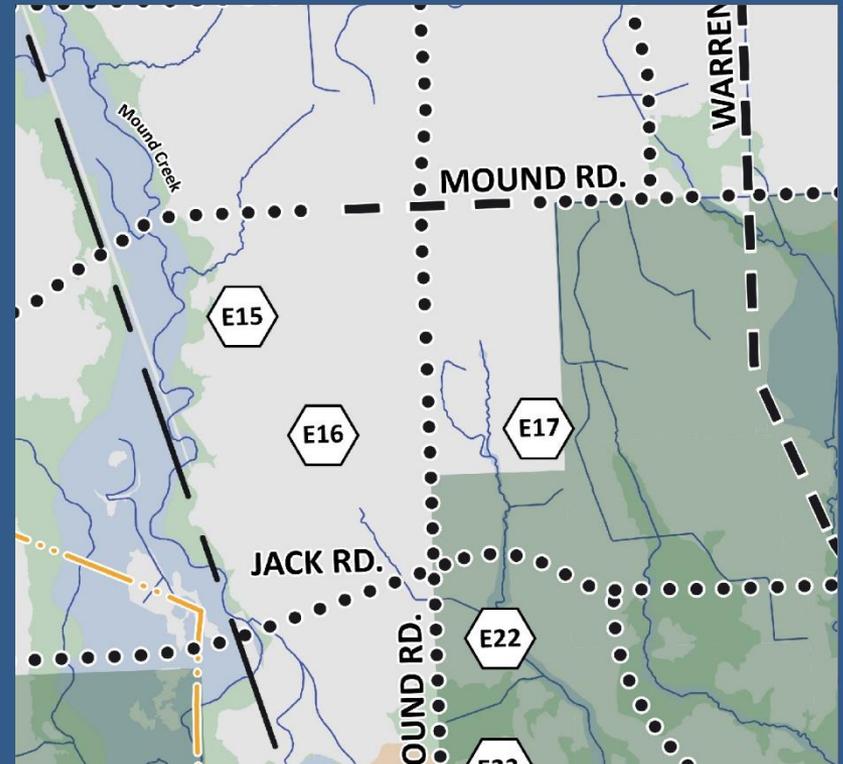
Group 3

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Smalley Road	T-4-100	(proposed)	----
Delete Smalley Road segment where impacted by creek floodway/floodplain and environmental constraints			

Current Alignment



Proposed Revision



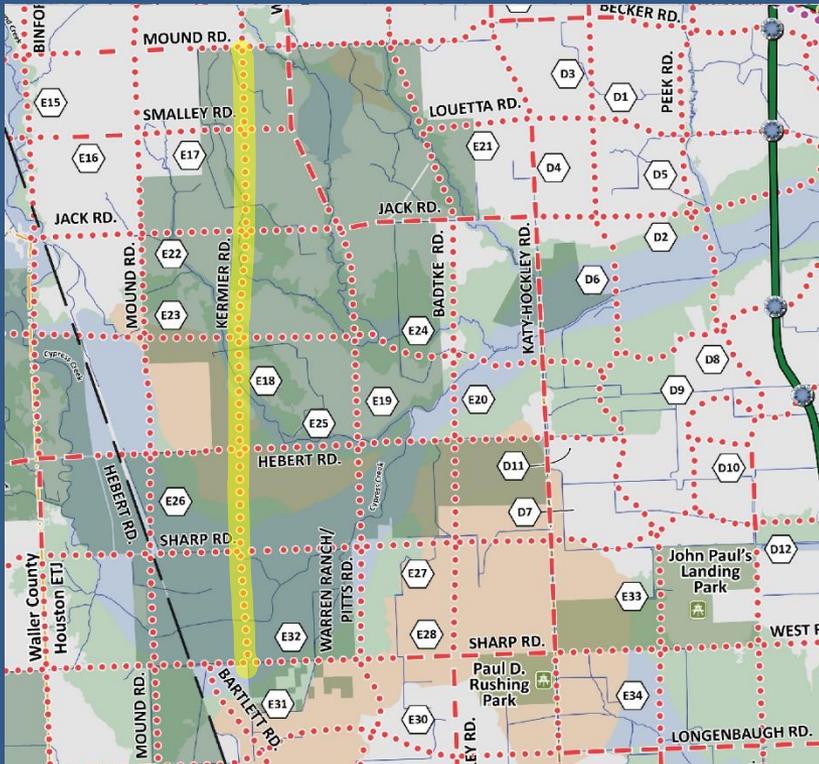
#E-18

(Study #15)
Delete UNNAMED
(Kermier Rd)

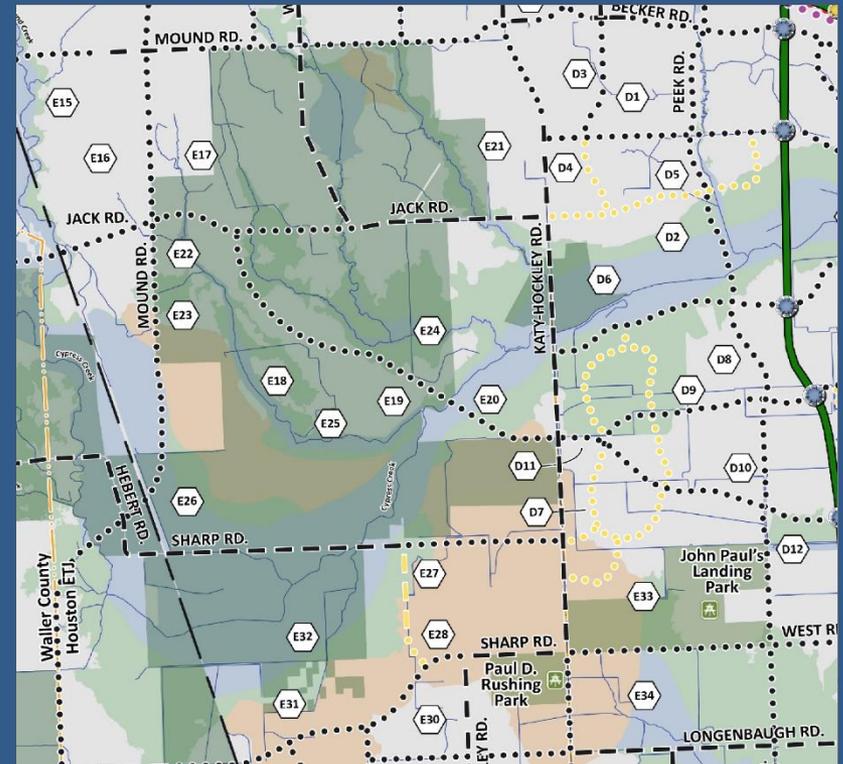
Group 3

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
UNNAMED (Kermier Rd)	T-4-100	(proposed)	----
Delete +/- 6-mile unnamed segment where impacted by Cypress Creek floodway/floodplain and environmental constraints			

Current Alignment



Proposed Revision



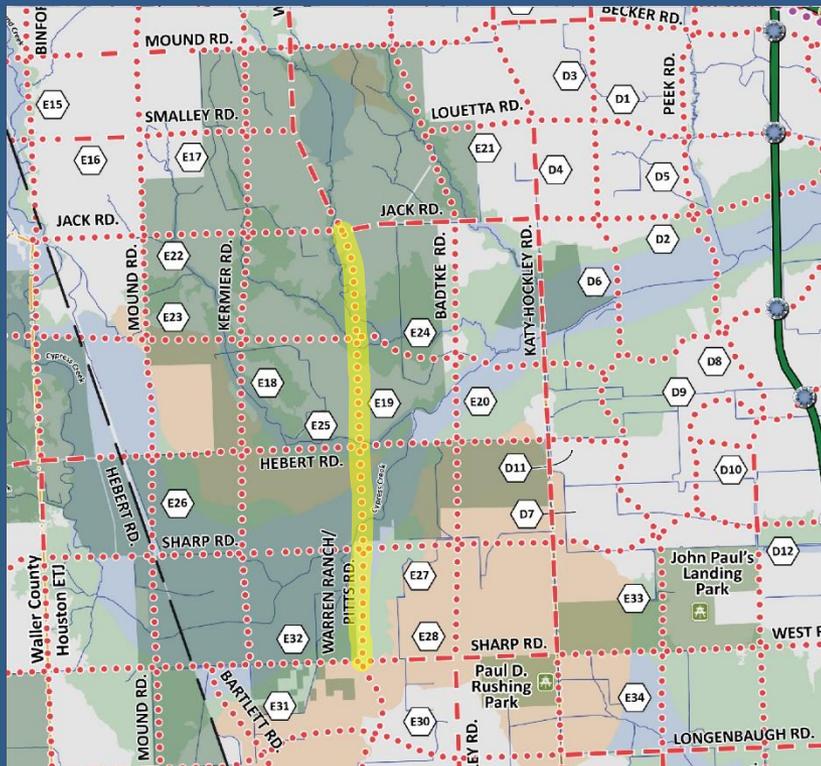
#E-19

(Study #18)
Delete UNNAMED
(Pitts Rd)

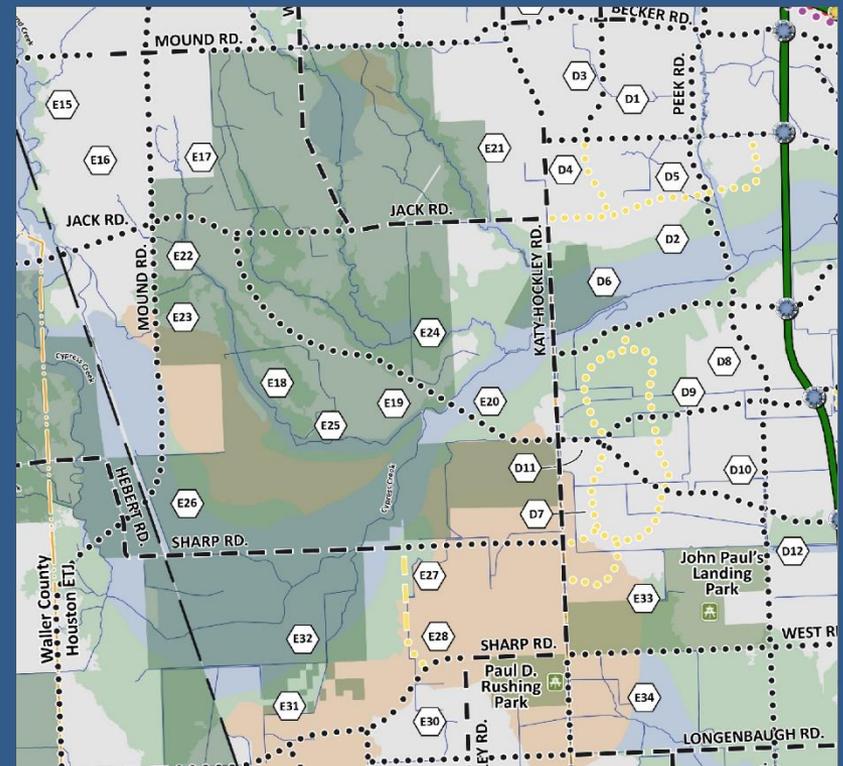
Group 3

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
UNNAMED (Pitts Rd)	T-4-100	(proposed)	----
Delete unnamed segment where impacted by Cypress Creek floodway/floodplain and environmental constraints			

Current Alignment



Proposed Revision



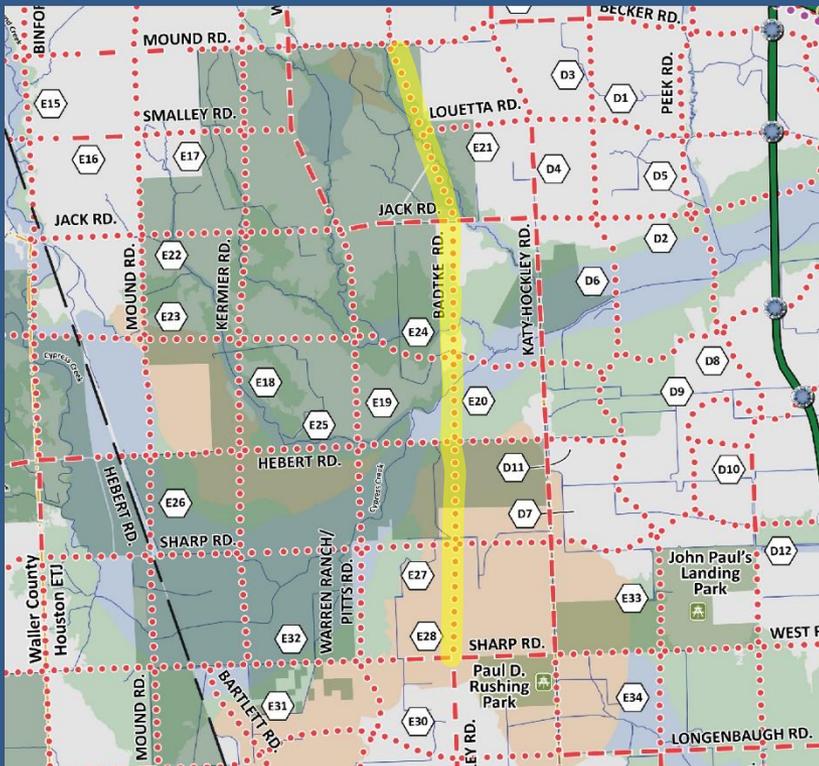
#E-20

(Study #20)
Delete UNNAMED
(Badtke Rd)

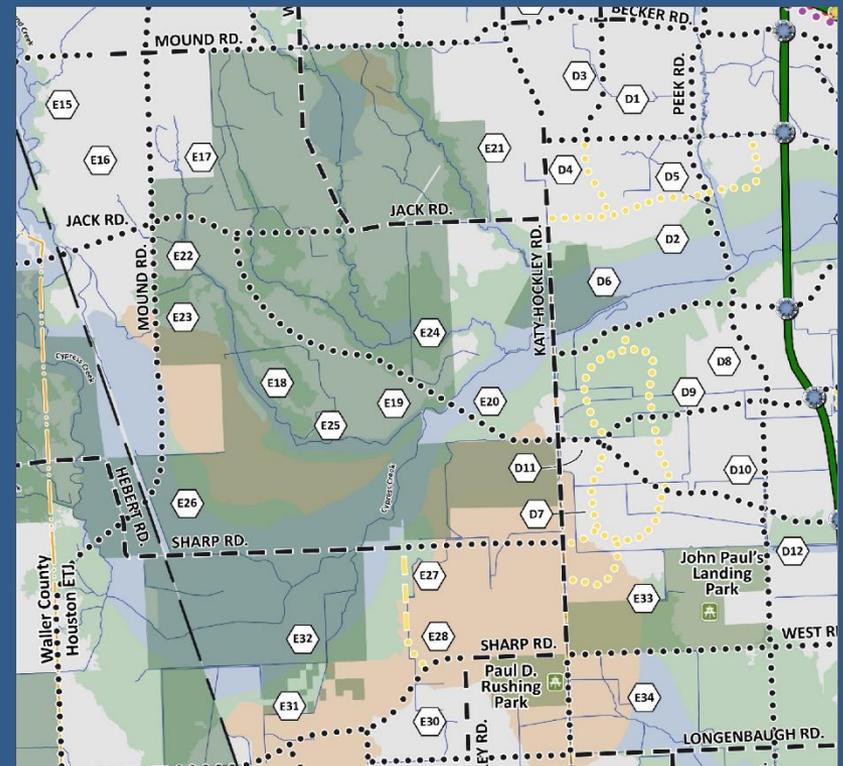
Group 3

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
UNNAMED (Badtke Rd)	T-4-100	(proposed)	----
Delete unnamed segment where impacted by Cypress Creek floodway/floodplain and environmental constraints			

Current Alignment



Proposed Revision



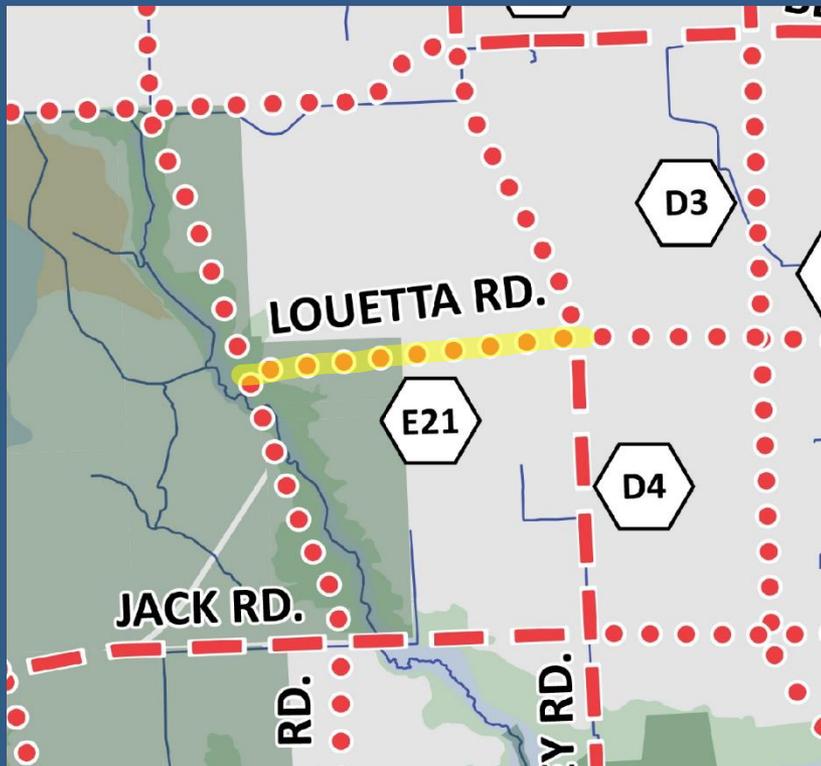
#E-21

(Study #21)
Delete Louetta Rd

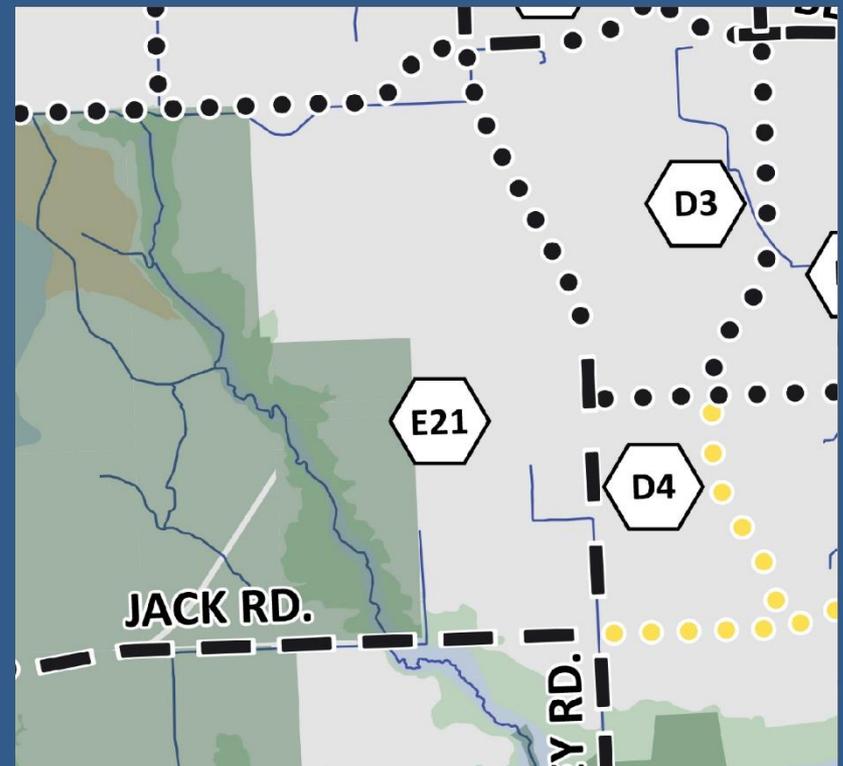
Group 3

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Louetta Road	T-4-100	(proposed)	----
Delete Louetta Road segment where impacted by creek floodway/floodplain and environmental constraints			

Current Alignment



Proposed Revision



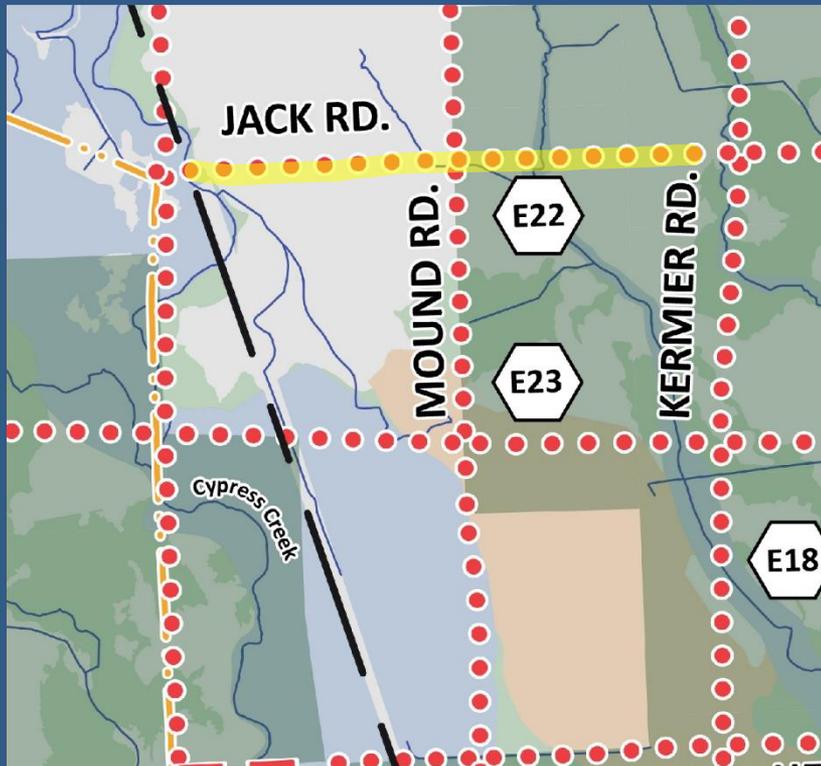
#E-22

(Study #23)
Realign Jack Rd

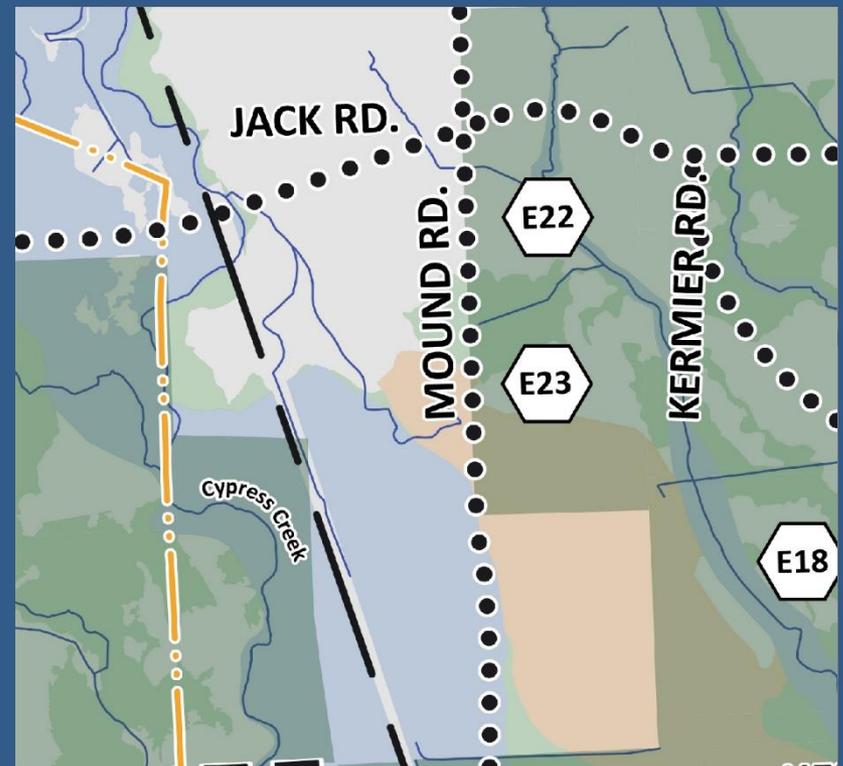
Group 3

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Jack Road	T-4-100	(proposed)	-----
Realign Jack Road segment where impacted by creek floodway/floodplain and environmental constraints			

Current Alignment



Proposed Revision



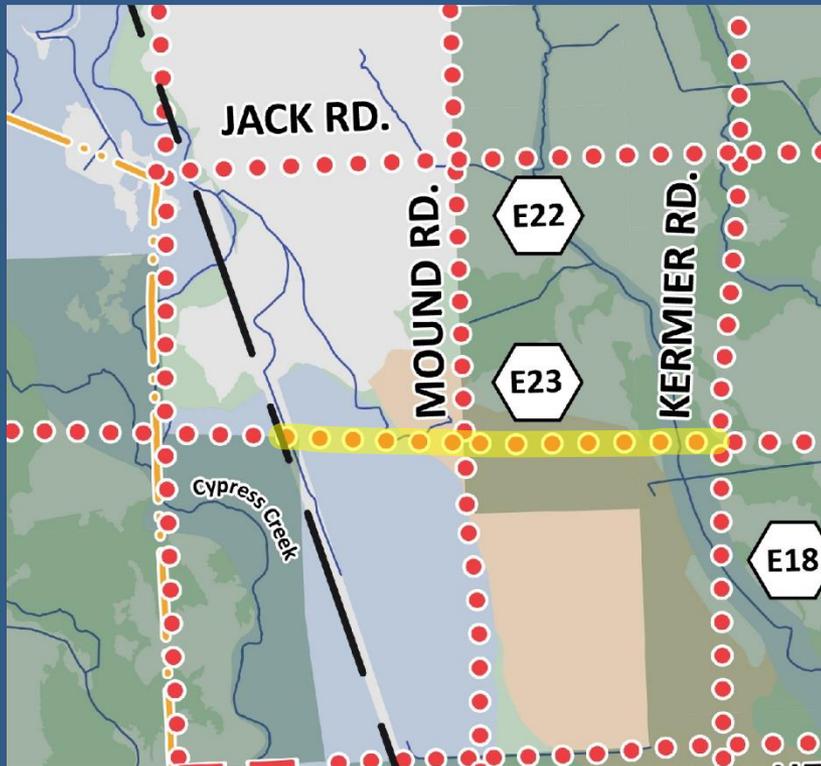
#E-23

(Study #24)
Delete UNNAMED

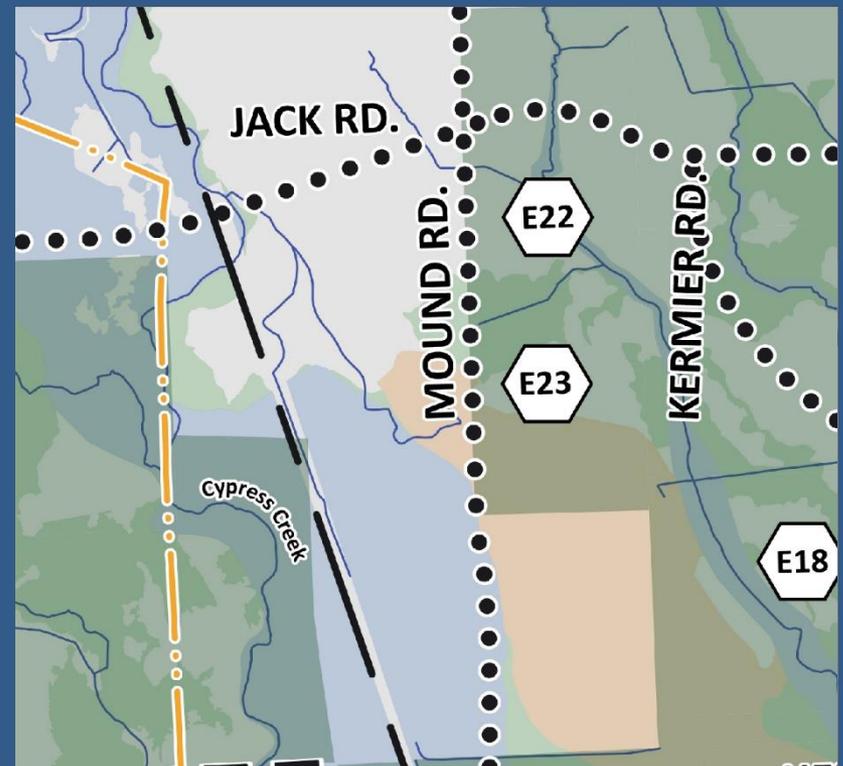
Group 3

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
UNNAMED	T-4-100	(proposed)	----
Delete unnamed segment where impacted by Cypress Creek floodway/floodplain and environmental constraints			

Current Alignment



Proposed Revision



#E-24

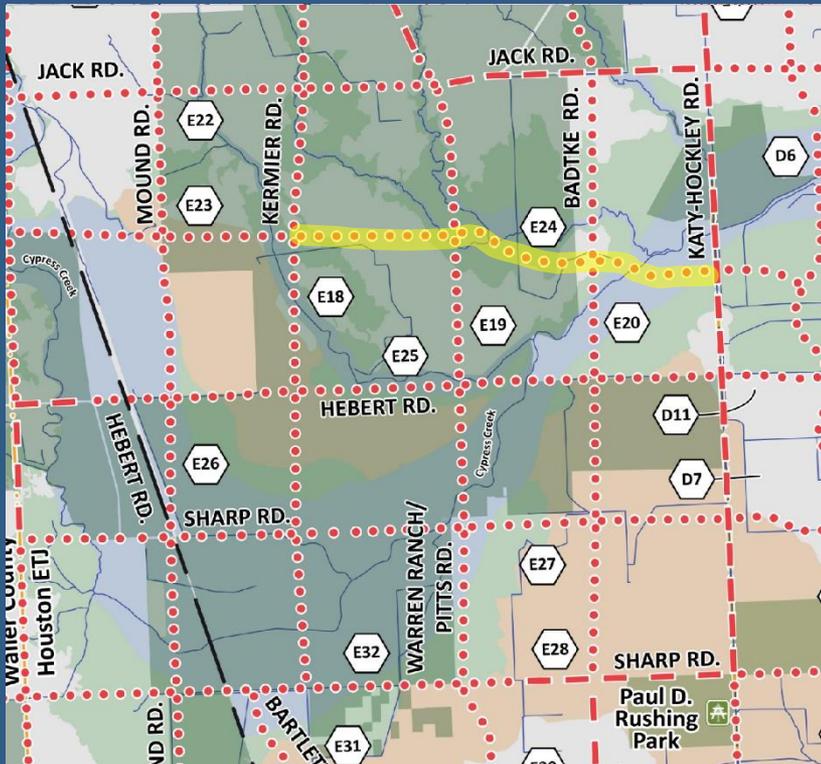
(Study #25)
Realign UNNAMED

Group 3

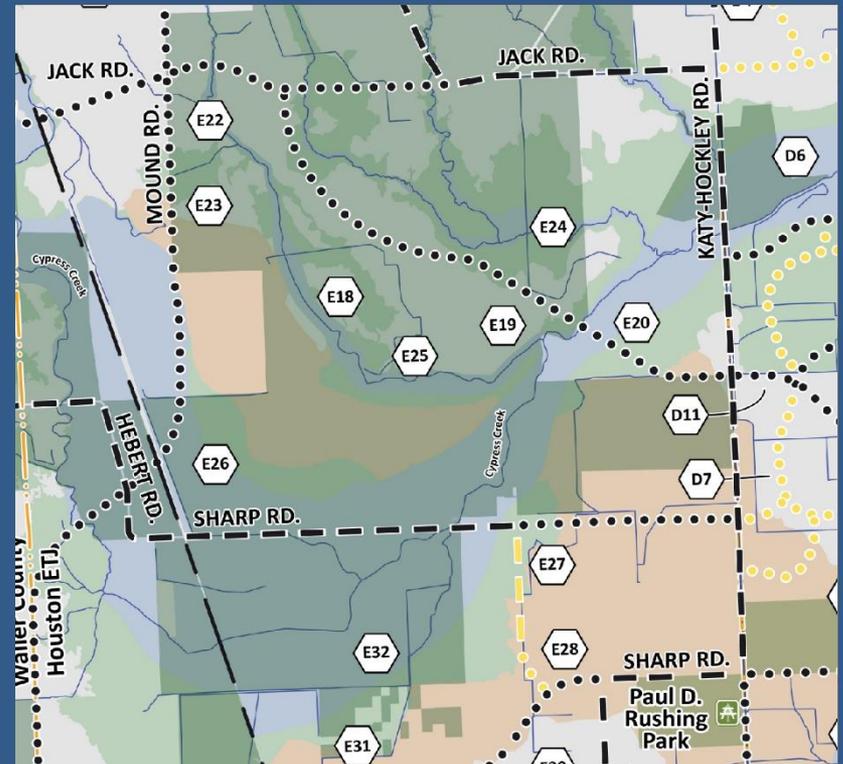
Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
UNNAMED	T-4-100	(proposed)	T-4-100

Realign unnamed segment to traverse creek floodway/floodplain and Katy Prairie environment, to tee into Jack Road to the north

Current Alignment



Proposed Revision



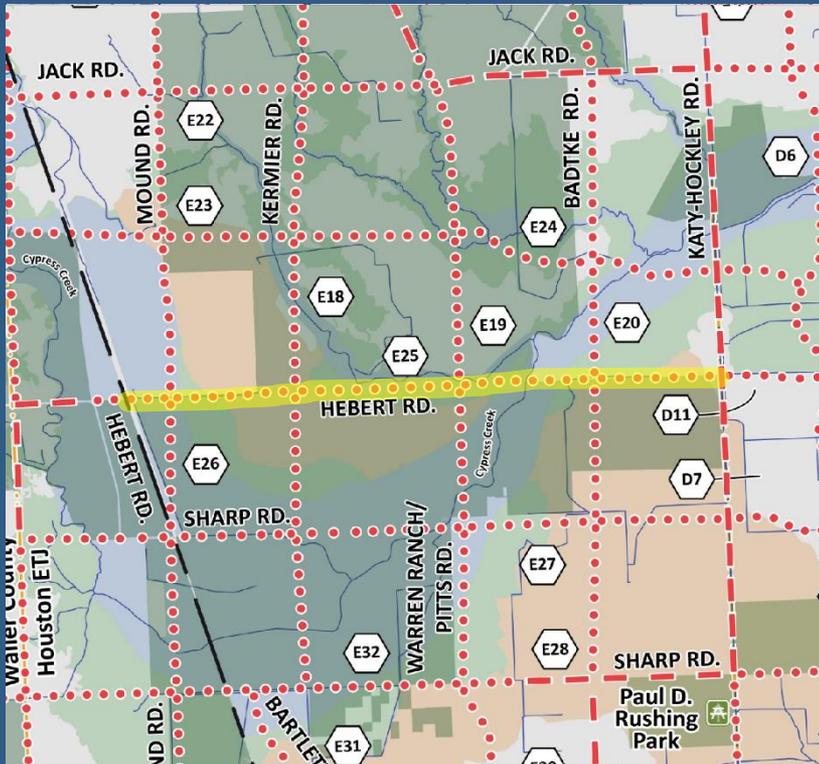
#E-25

(Study #26)
Delete UNNAMED
(Hebert Rd)

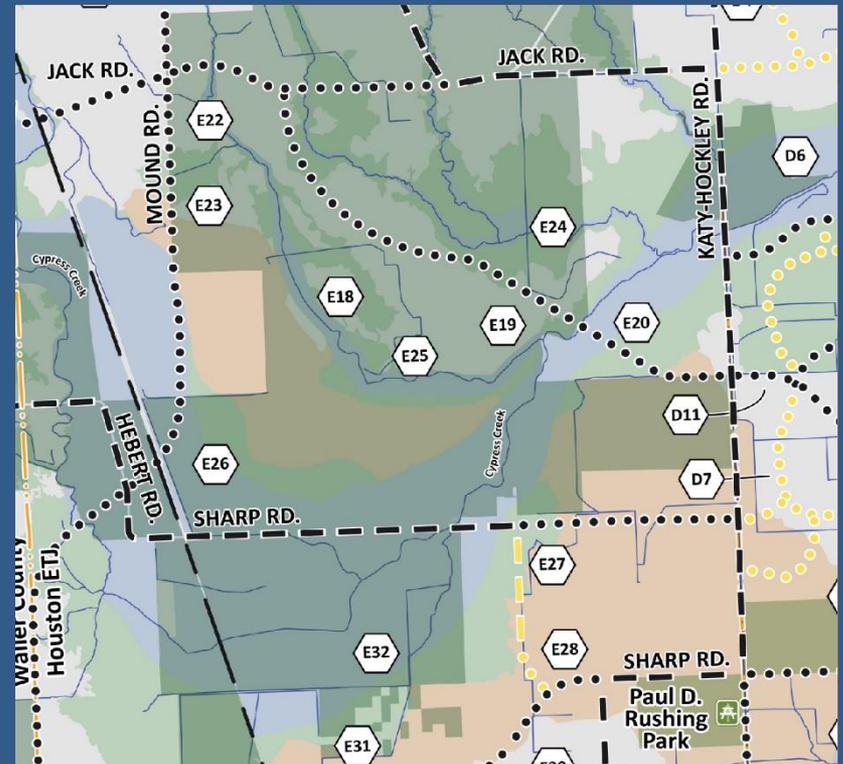
Group 3

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
UNNAMED (Hebert Rd)	T-4-100	(proposed)	-----
Delete unnamed segment where impacted by Cypress Creek floodway/floodplain and environmental constraints			

Current Alignment



Proposed Revision



#E-26

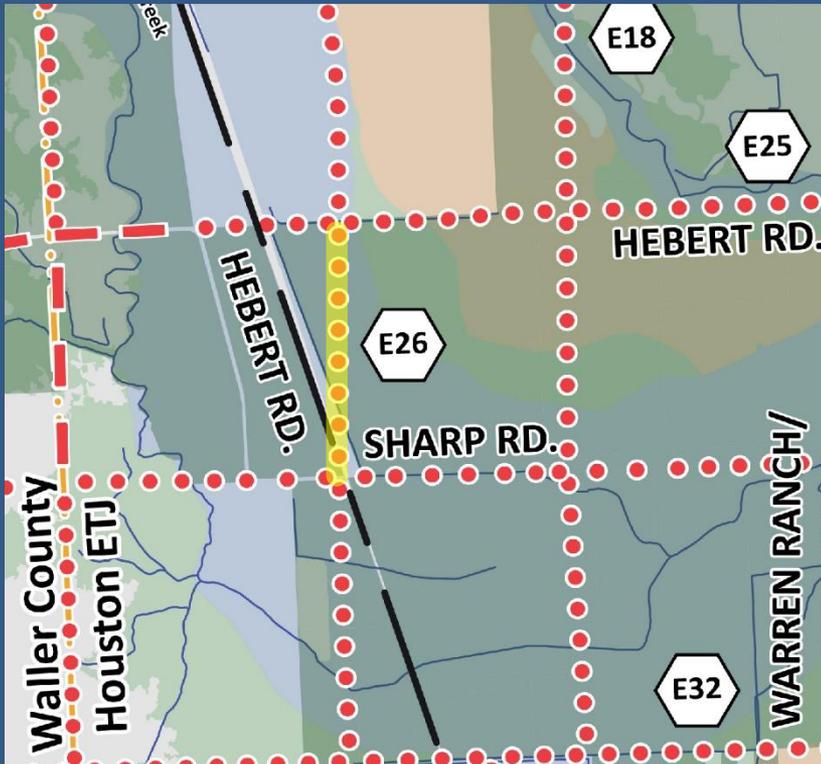
(Study #48)
Delete Mound Rd
(Schlipf Rd)

Group 3

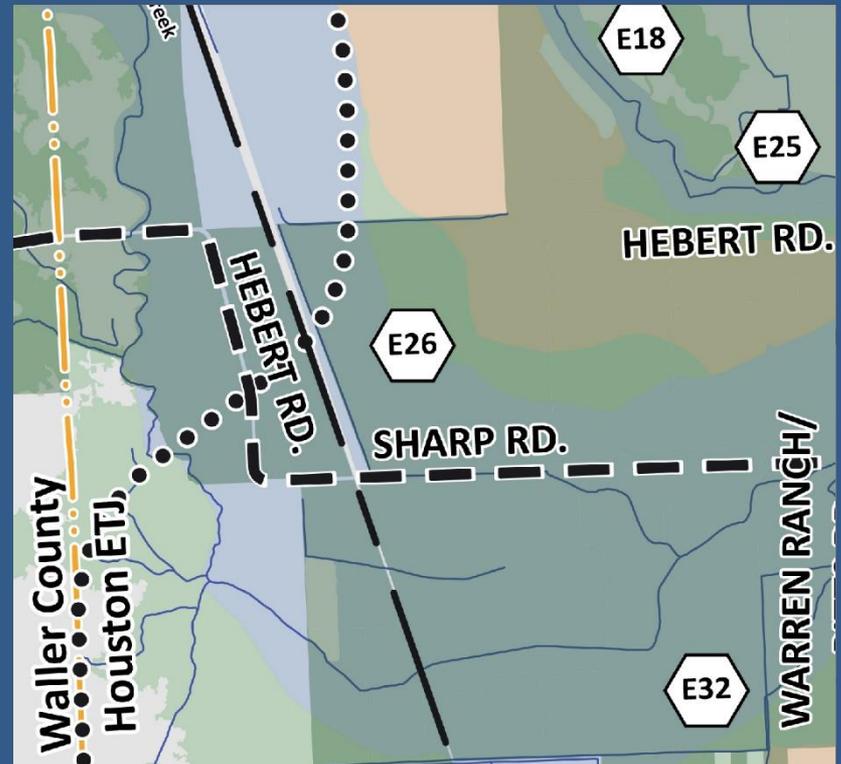
Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Mound Road (Schlipf Road)	T-4-100	(proposed)	-----

Delete Mound Road (aka Schlipf Road) segment where impacted by Cypress Creek floodway/floodplain and environmental constraints

Current Alignment



Proposed Revision



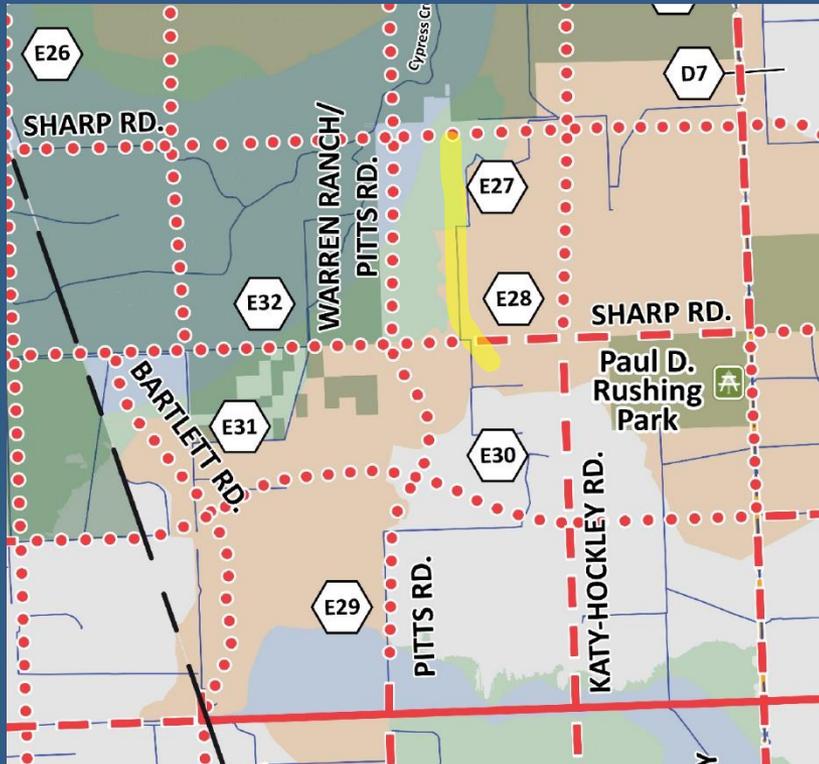
#E-27

(Study #27)
Add Sharp Rd

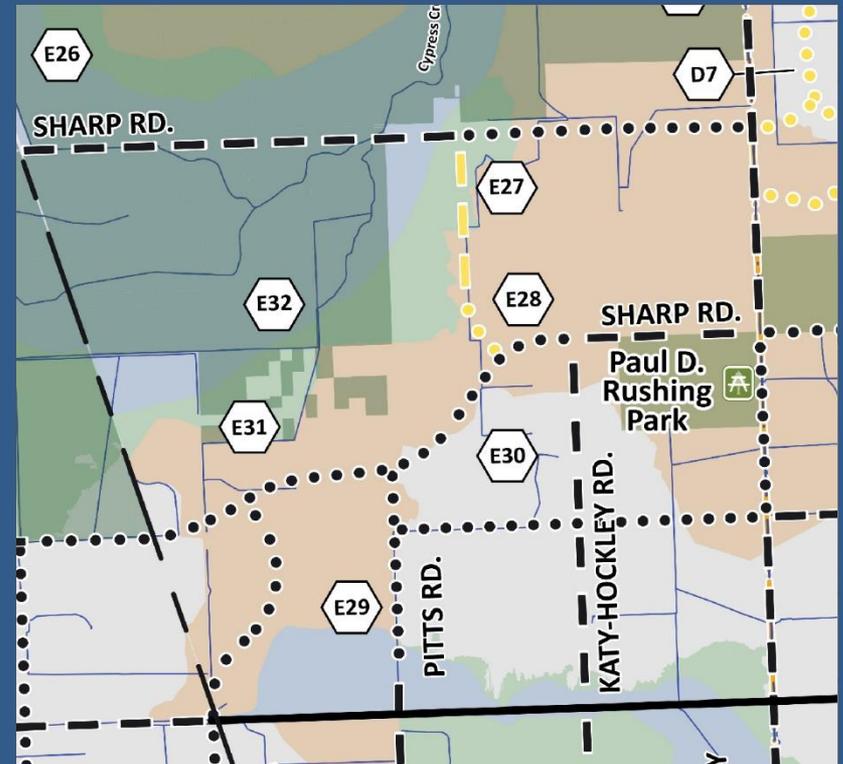
Group 3

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Sharp Road	-----	Existing 2-lane asphalt	MN-2-60
Add existing north-south segment of Sharp Road as a minor collector			

Current Alignment



Proposed Revision



#E-28

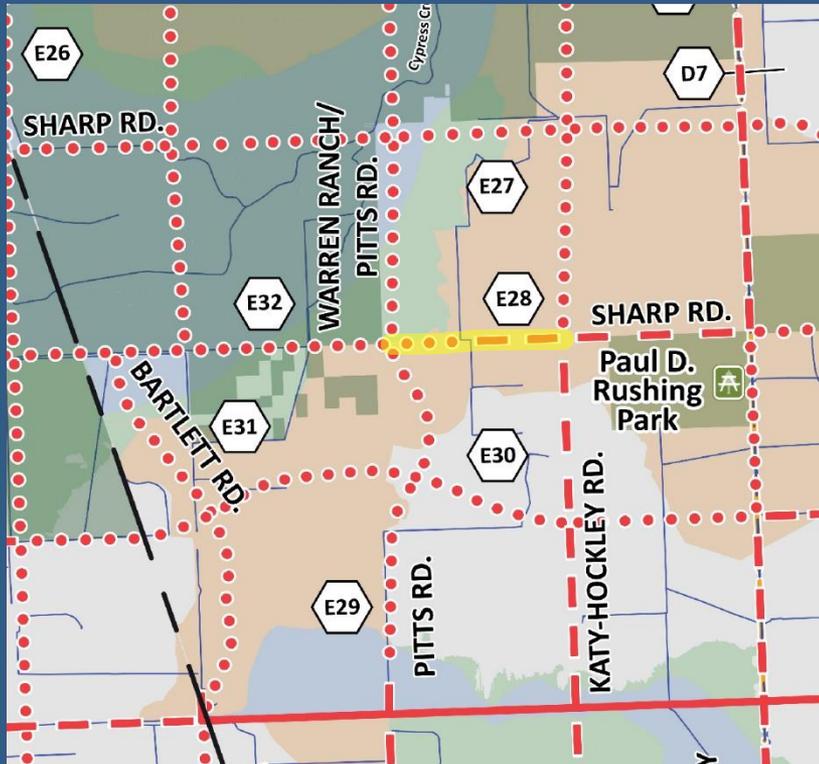
(Study #50)
Realign Sharp Rd

Group 3

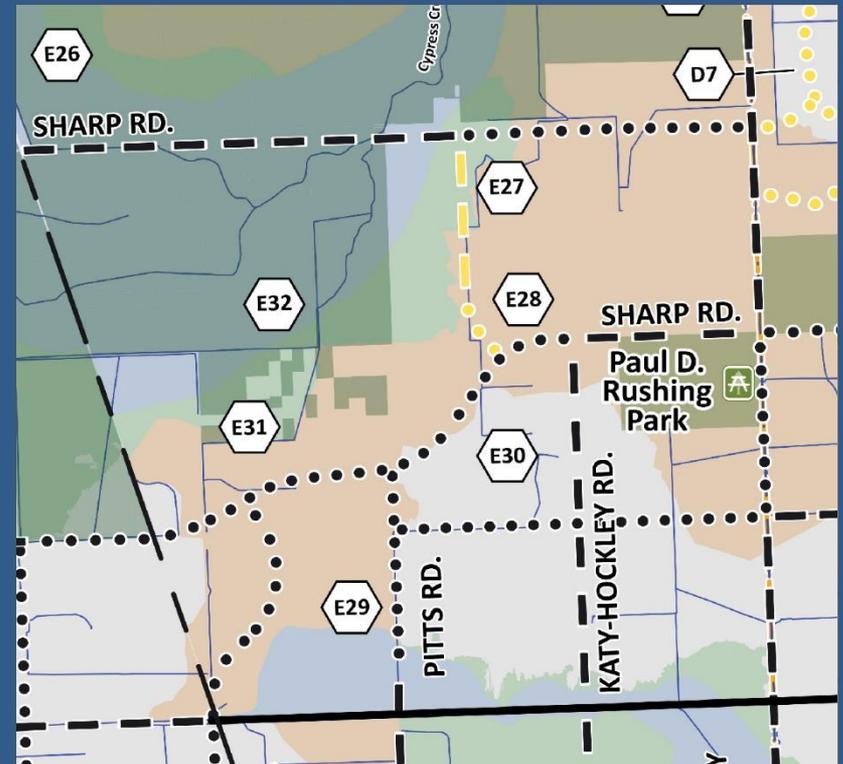
Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Sharp Road (West Road)	T-4-100	Existing 2-lane asphalt	T-4-100

Realign Sharp Road to connect to Pitts Road further south, at proposed intersection with Longenbaugh Rd / Morrison Rd

Current Alignment



Proposed Revision



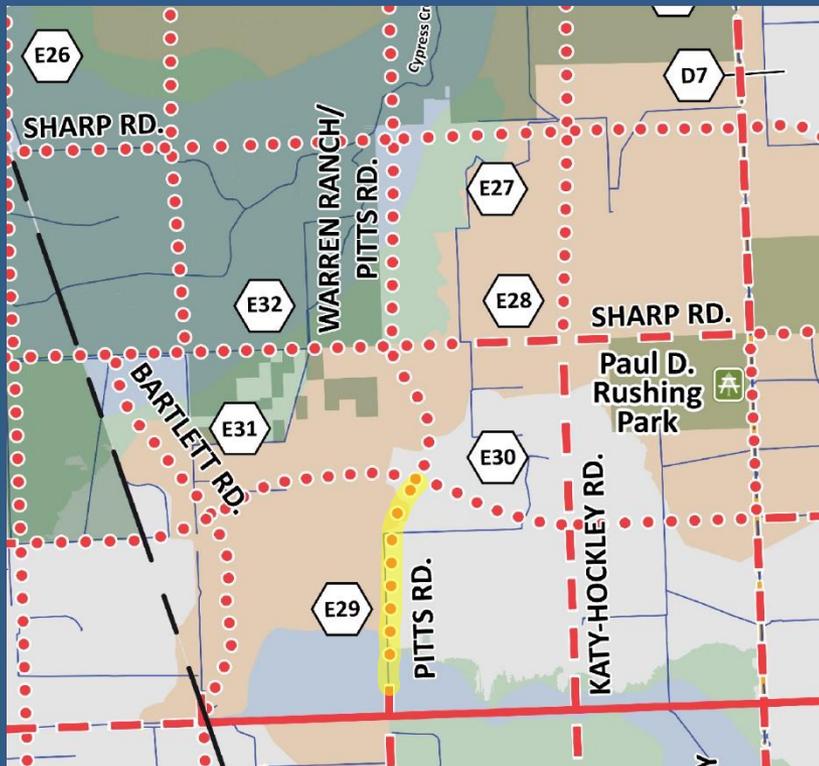
#E-29

(Study #51)
Realign Pitts Rd

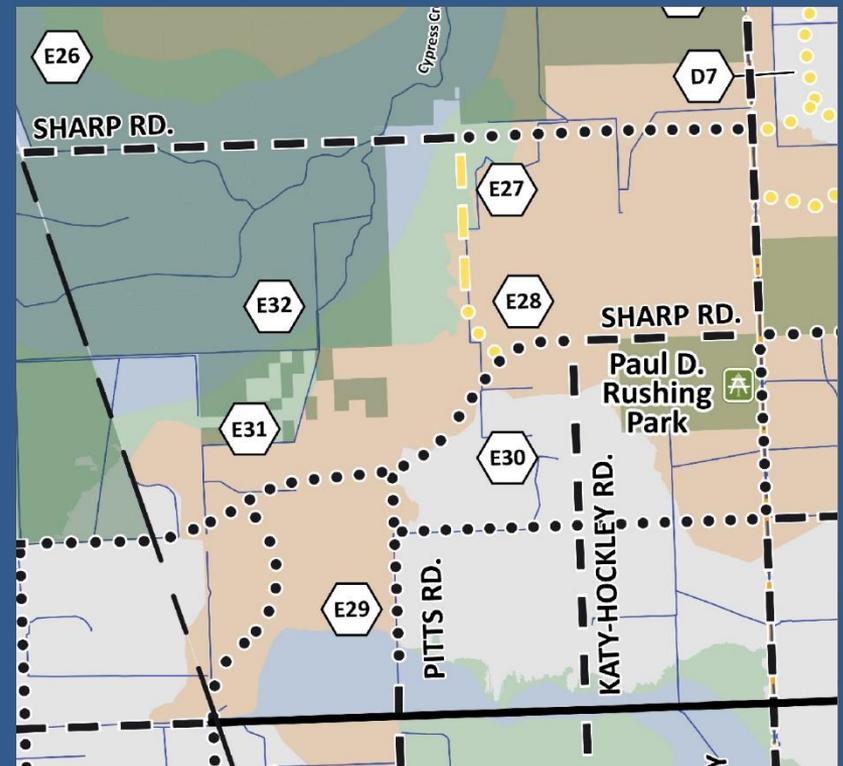
Group 3

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Pitts Road	T-4-100	proposed	T-4-100
Realign Pitts Road to straighten proposed intersection with West Road			

Current Alignment



Proposed Revision



#E-30

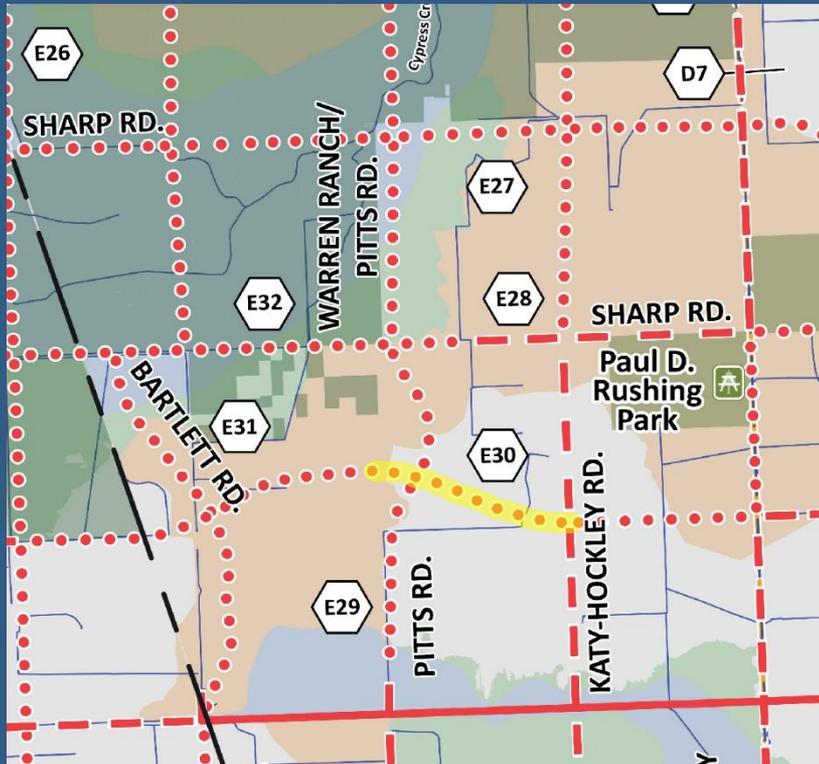
(Study #52)

Realign
Longenbaugh Rd

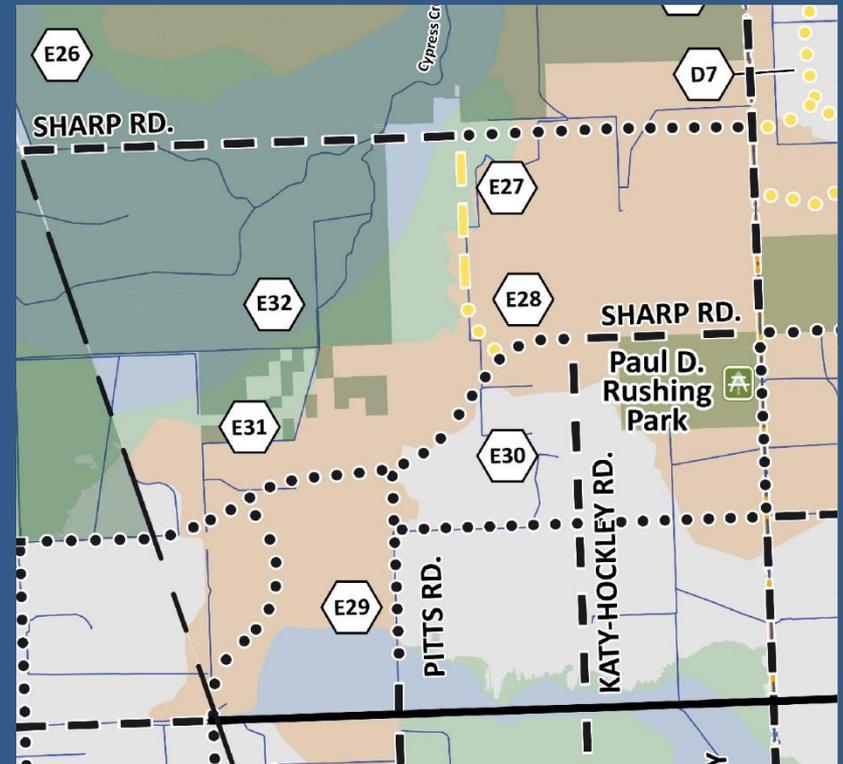
Group 3

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Longenbaugh Road	T-4-100	proposed	T-4-100
Realign Longenbaugh Road to straighten proposed intersection with Pitts Road			

Current Alignment



Proposed Revision



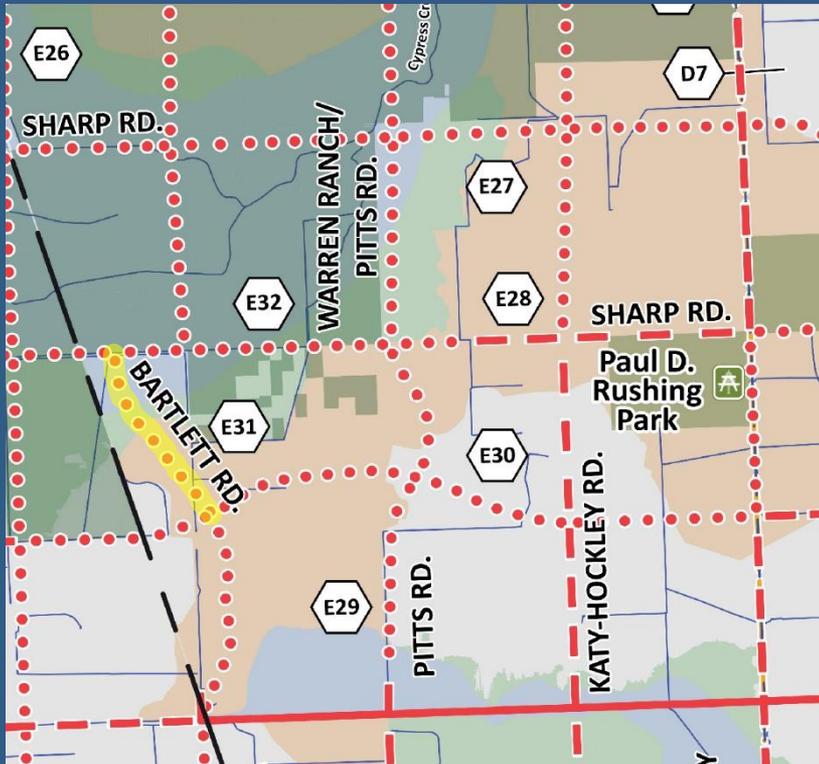
#E-31

(Study #33)
Delete Bartlett Rd

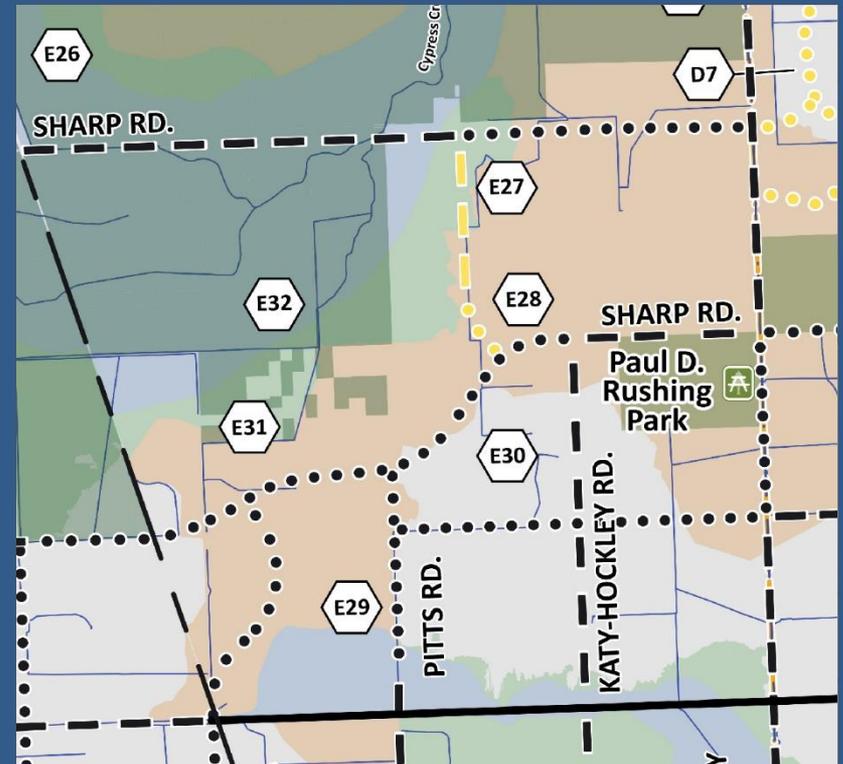
Group 3

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Bartlett Road	T-4-100	proposed	----
Delete Bartlett Road segment where impacted by creek floodway/floodplain			

Current Alignment



Proposed Revision



#E-32

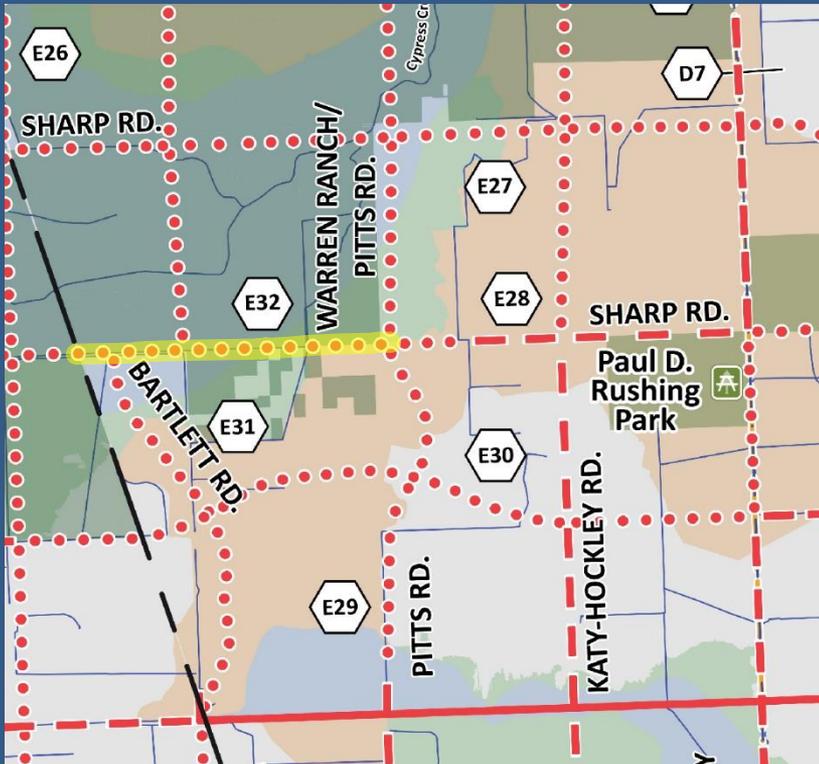
(Study #34)
Delete West Rd

Group 3

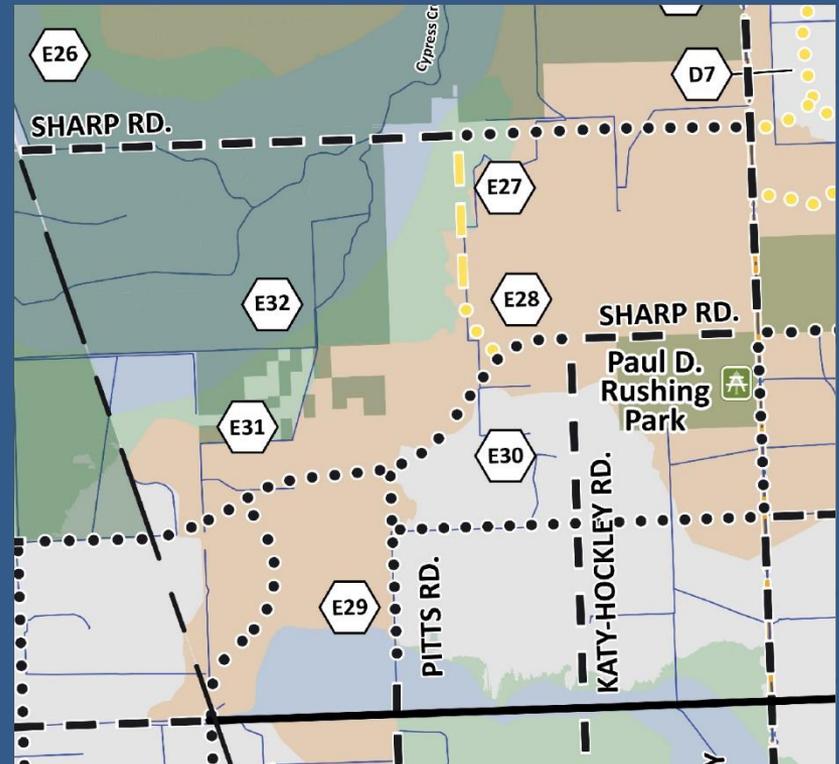
Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
West Road	T-4-100	proposed	----

Delete West Road segment where impacted by Cypress Creek floodway/floodplain and environmental constraints

Current Alignment



Proposed Revision



#E-33

(Study #31)
Delete Porter Rd

Group 3

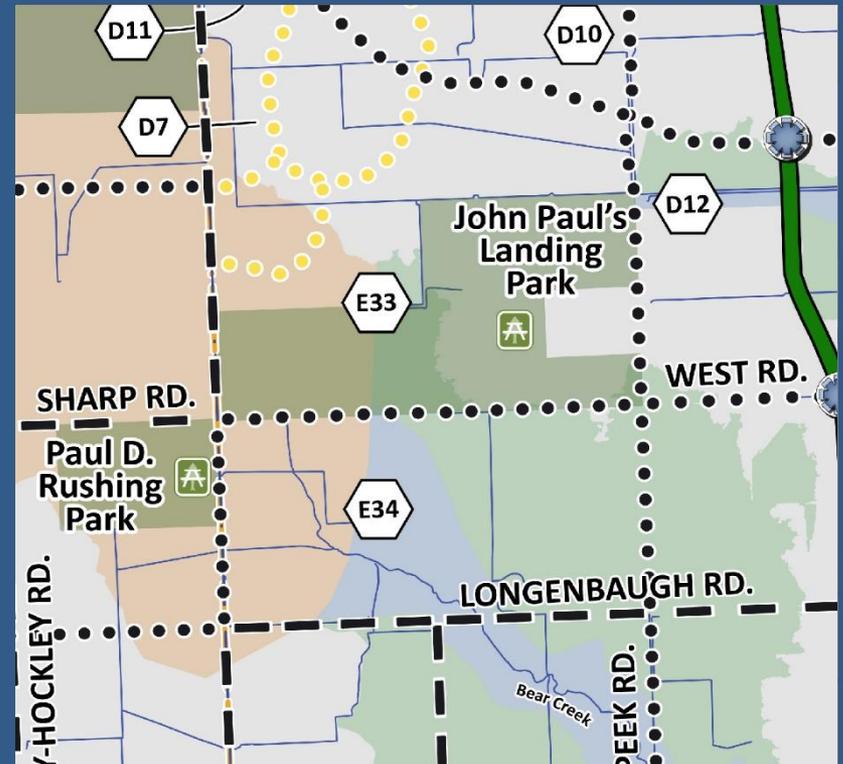
Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Porter Road	T-4-100	proposed	----

Delete Porter Road segment where alignment bisects existing and future regional detention basins in John Paul's Landing Park

Current Alignment



Proposed Revision



#E-34

(Study #32)
Delete Porter Rd

Group 3

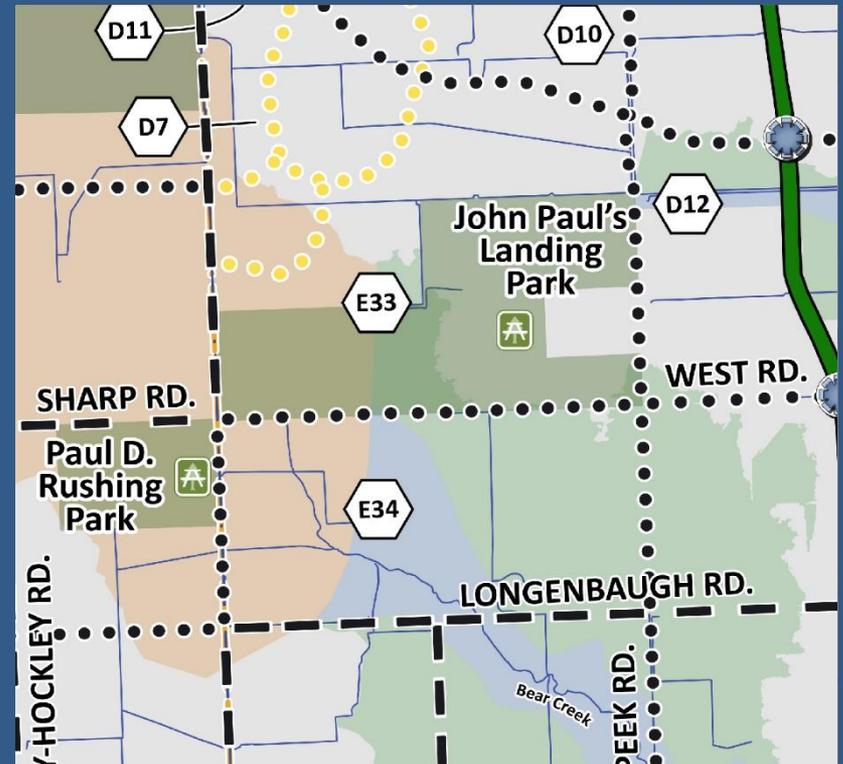
Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Porter Road	T-4-100	proposed	-----

Delete Porter Road segment where impacted by +/- 5,000' of floodway, floodplain, and overflow of Cypress Creek

Current Alignment



Proposed Revision



#E-35

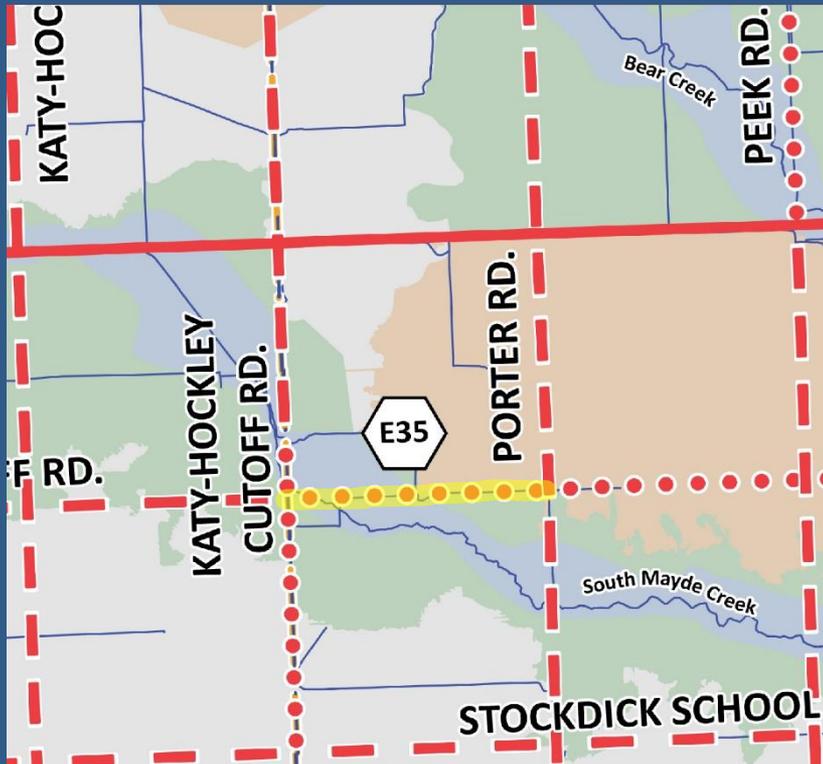
(Study #28)

Delete Beckendorff Road

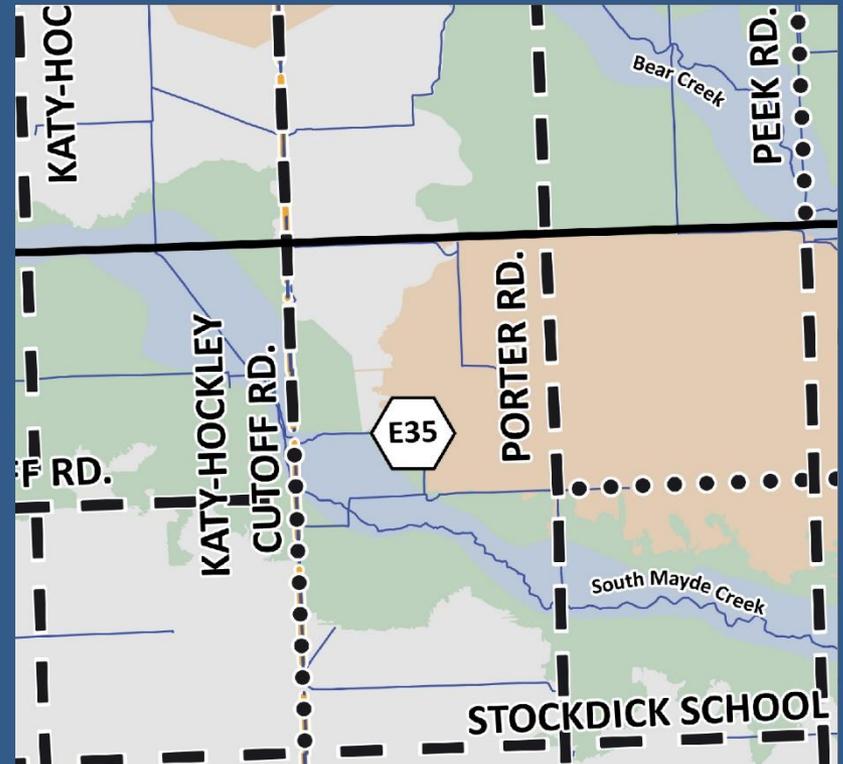
Group 3

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Beckendorff Road	T-4-100	proposed	----
Delete Beckendorff Road segment where impacted by half-mile crossing of creek floodway and floodplain			

Current Alignment



Proposed Revision



#E-36

(Study #29)

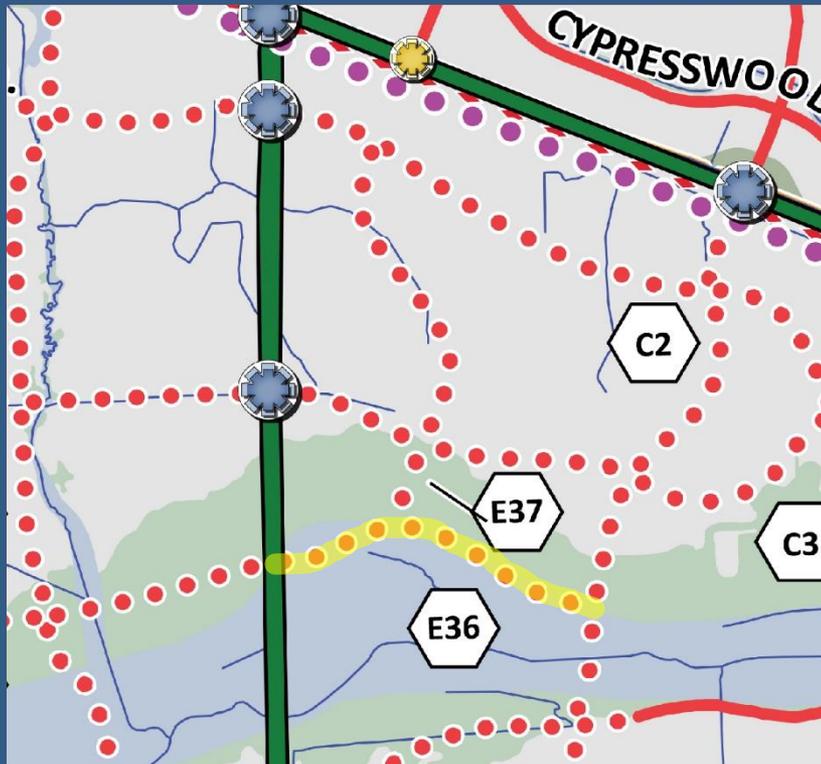
Delete Jack Road

Group 3

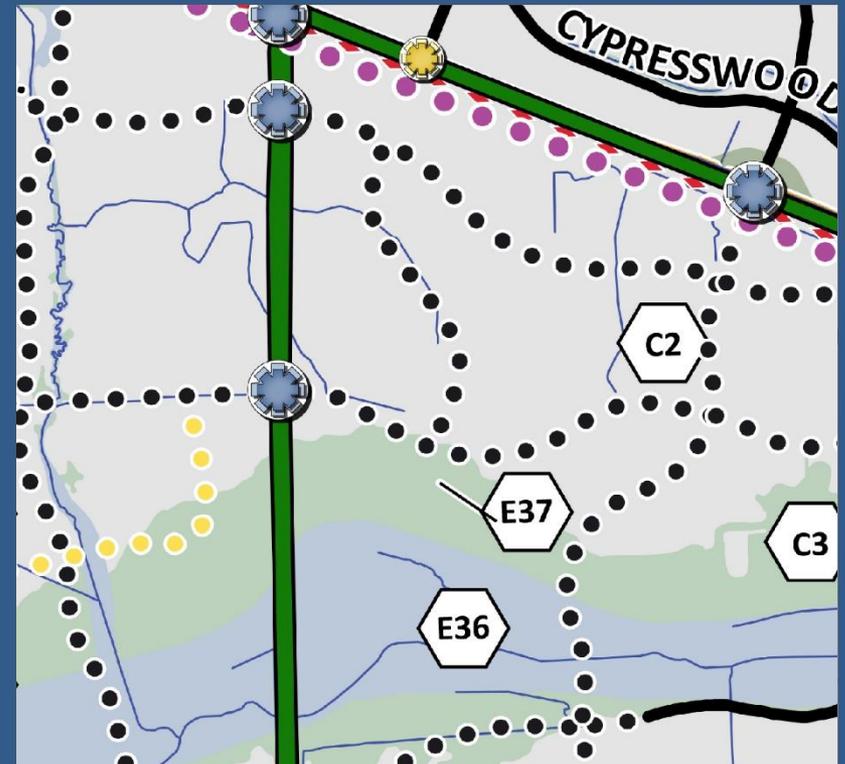
Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Jack Road	T-4-100	proposed	-----

Delete Jack Road segment where no through-path is available at the Grand Parkway (dead-end thoroughfare)

Current Alignment



Proposed Revision



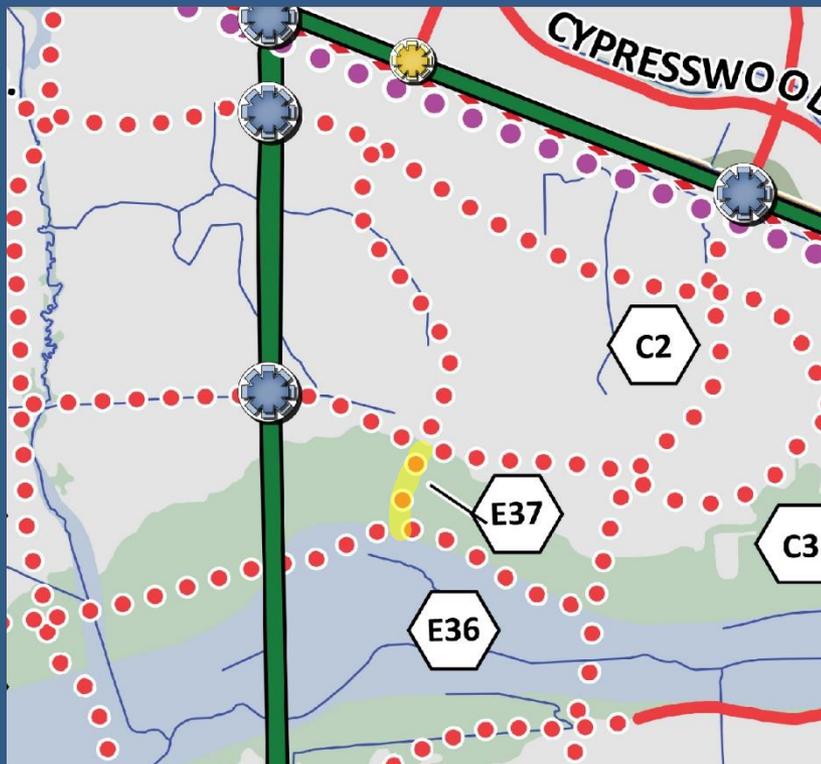
#E-37

(Study #30)
Delete Fairfield Place
Place

Group 3

Name	2014 MTFP Classification	Existing Conditions	Proposed MTFP Classification
Fairfield Place	T-4-100	proposed	-----
Delete small remainder segment of Fairfield Place (no regional thoroughfare connections)			

Current Alignment



Proposed Revision

