

Schwede Road Sight Distance

Sponsor County Highway

Project No. RB22-000007

Project Type Safety

TOTAL FUNDING

Total	County	Sponsor	Federal	Other
\$450,000.00	\$450,000.00	\$0.00	\$0.00	\$0.00

Project Description

There is a vertical crest curve immediately west of Huffmeier Road on Schwede Road that makes it difficult to see to the west from Huffmeier. While there were no reported crashes in the last three years, we have received several complaints, and numerous residents have indicated they avoid Huffmeier Road so they do not have to turn from that intersection. The plan would be to cut down a short section of Schwede Road to open up the sight line for the side street.



Road Board Application

PROJECT INFORMATION

Permit #: RB22-000007 Project Type: Safety
 Name: Schwede Road Sight Distance
 Limits: 0.1 miles west of Huffmeier Road to just east of Huffmeier Road intersection
 Lane Miles: 0.28
 Federal Functional Classification: 5 - Local
 Anticipated useful life of the proposed improvements (years): 20 Estimated date of completion: 12/31/2025

Safety Information

Traffic Volume ADT: Existing 472 Future 1000
 Crashes last 3 years: Total crashes 0 Fatal 0 Serious injury 0 Damage Only 0

Anticipated Crash Reduction Factor: 0.49
 Crash Modification Factor (CMF)

CMF 1 #721 - Flatten Crest

Crash Type	No. of Crashes
Intersection Sight Dist.	0

PROJECT DESCRIPTION

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CONTACT INFORMATION

Sponsoring Agency: St. Charles County Highway Department
 Contact Person Name: Chris Bostic
 Title:
 Telephone Number: (636) 949-7305
 E-mail Address: cbostic@sccmo.org

SIGNATURE

signature

3/29/22

date



ST. CHARLES
COUNTY
HIGHWAY
DEPARTMENT

SCHWEDE ROAD PROJECT

FROM JUST EAST OF HUEFFMEIER ROAD
TO 0.10 MILES WEST OF HUEFFMEIER RD
PROJECT LENGTH: 0.14 MILES


NORTH
NOT TO SCALE

ST. CHARLES COUNTY ROAD BOARD
 2023 - 2025 TIP FINANCIAL WORKSHEET
 SCHWEDE RD

FUNDING FOR IMPROVEMENTS					
	County	Sponsor	Federal	Other	Total
Design	\$50,000.00	\$0.00	\$0.00	\$0.00	\$50,000.00
Utility Relocations	\$25,000.00	\$0.00	\$0.00	\$0.00	\$25,000.00
Right-of-Way	\$25,000.00	\$0.00	\$0.00	\$0.00	\$25,000.00
Construction	\$350,000.00	\$0.00	\$0.00	\$0.00	\$350,000.00
TOTAL	\$450,000.00	\$0.00	\$0.00	\$0.00	\$450,000.00
PERCENT (%)	100.00%	0.00%	0.00%	0.00%	100.00%
FINANCIAL PLAN					
Design	County	Sponsor	Federal	Other	Total
2023	\$50,000.00				\$50,000.00
2024					\$0.00
2025					\$0.00
Utility Relocations	County	Sponsor	Federal	Other	Total
2023					\$0.00
2024	\$25,000.00				\$25,000.00
2025					\$0.00
Right-of-Way	County	Sponsor	Federal	Other	Total
2023					\$0.00
2024	\$25,000.00				\$25,000.00
2025					\$0.00
Construction	County	Sponsor	Federal	Other	Total
2023					\$0.00
2024					\$0.00
2025	\$350,000.00				\$350,000.00

Estimate of Project Costs

Project Sponsor: Saint Charles County Highway Department
Project Title: Schwede Road at Huffmeier Road
Date: 3/15/2022

Specific Roadway Items				
Item	Quantity	Unit	Unit Price	Amount
Clearing and Grubbing	1	Lump Sum	\$ 7,500.00	\$7,500.00
Removal of Improvements	1	Lump Sum	\$ 15,000.00	\$15,000.00
Mobilization	1	Lump Sum	\$ 30,000.00	\$30,000.00
Surveying	1	Lump Sum	\$ 7,500.00	\$7,500.00
Earthwork	4000	Cubic Yards	\$ 12.00	\$48,000.00
Retaining Walls	0	Square Feet	\$ 25.00	\$0.00
4" Aggregate Base	3000	Square Yards	\$ 6.00	\$18,000.00
Widened Pavement: Lane widening to 12' lanes, 6' shoulders	0	Square Yards	\$ 40.00	\$0.00
Full Depth New Pavement: 2-12' lanes, 6' shoulders	2800	Square Yards	\$ 40.00	\$112,000.00
Driveways/Side street	150	Square Yards	\$ 35.00	\$5,250.00
Curb and Gutter	0	Linear Feet	\$ 20.00	\$0.00
Box Culvert	0	Lump Sum	\$ 50,000.00	\$0.00
Crossroad Drainage	1	Lump Sum	\$ 10,000.00	\$10,000.00
Traffic Control	1	Lump Sum	\$ 10,000.00	\$10,000.00
Roundabout/Signal	0	Each	\$ 200,000.00	\$0.00
Erosion Control	1	Lump Sum	\$ 5,000.00	\$5,000.00
Temporary Pavement	0	Square Yards	\$ 30.00	\$0.00
Sodding	0	Square Yards	\$ 5.00	\$0.00
Seeding	0.7	Acres	\$ 4,000.00	\$2,800.00
Pavement Markings	1400	Linear Feet	\$ 1.00	\$1,400.00
				\$0.00
SUBTOTAL				\$272,450.00

Specific Bicycle Items				
Item	Quantity	Unit	Unit Price	Amount
				\$0.00
				\$0.00
SUBTOTAL				\$0.00

Specific Pedestrian Items				
Item	Quantity	Unit	Unit Price	Amount
5 Foot Wide Sidewalks	0	Square Yards	\$ 40.00	\$0.00
10 Foot Wide Multi-Use Path	0	Square Yards	\$ 18.00	\$0.00
				\$0.00
				\$0.00
				\$0.00
SUBTOTAL				\$0.00

Specific Transit Items				
Item	Quantity	Unit	Unit Price	Amount
				\$0.00
SUBTOTAL				\$0.00

Miscellaneous Other Items				
Item	Quantity	Unit	Unit Price	Amount
Utility Relocations	1	Lump Sum	\$25,000.00	\$25,000.00
				\$0.00
				\$0.00
				\$0.00
SUBTOTAL				\$25,000.00

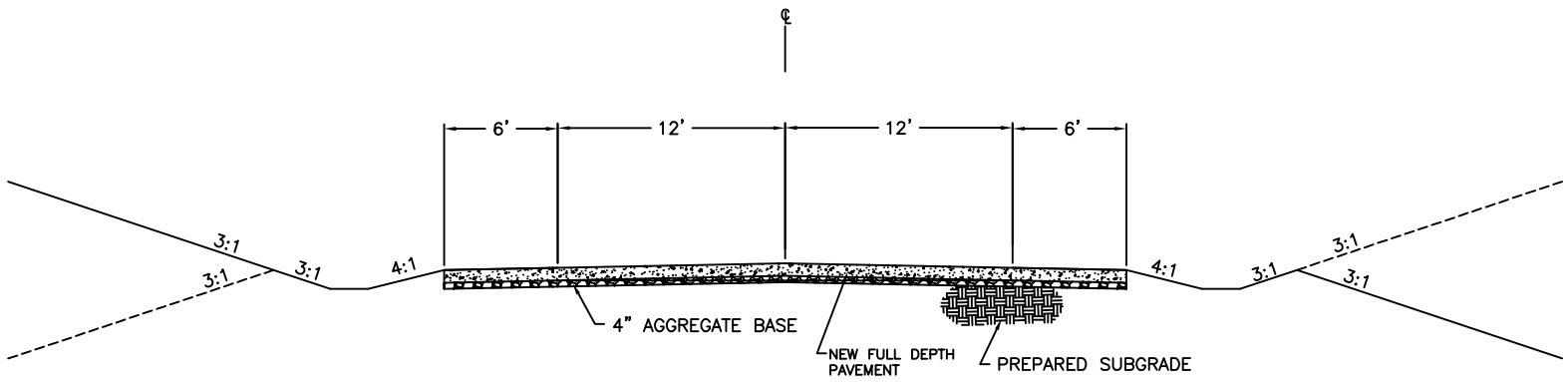
Construction Cost Total	\$297,450.00
Contingency (20%)	\$59,490.00
Inflation (4%)	\$11,900.00
Preliminary Engineering	\$50,000.00
Right-of-Way	\$25,000.00
Project Total (rounded)	\$450,000.00

Schwede Rd

<i>Project Schedule</i>	<i>Start Date (MO/YR)</i>	<i>Finish Date (MO/YR)</i>
Receive Notification of Funding	11/22	11/22
Consultant Selection	12/22	1/23
Award Engineering Services Contract	1/23	1/23
Obtain Environmental Clearances	1/23	5/24
Public Meeting/Hearing	9/23	9/23
Develop and Submit Preliminary Plans	1/23	9/23
Preliminary Plans Approved	10/23	11/23
Develop and Submit Right-of-Way Plans	12/23	3/24
Review and Approval of Right-of-Way Plans	3/24	4/24
Submit and Receive Approval for Notice to Proceed for Right-of-Way Acquisition (A-Date)	4/24	5/24
Right-of-Way Acquisition	5/24	11/24
Utility Coordination	1/23	11/24
Develop and Submit PS&E	7/24	10/24
District Approval of PS&E/Advertise for Bids	11/24	12/24
Submit and Receive Bids for Review and Approval	1/25	2/25
Project Implementation/Construction	3/25	12/25

SCHWEDE ROAD
TYPICAL SECTION

50' RIGHT-OF-WAY
(2 - 12' LANES
2 - 6' SHOULDERS)





CRASH MODIFICATION FACTORS CLEARINGHOUSE

CMF / CRF DETAILS

CMF ID: 721

FLATTEN CREST VERTICAL CURVE

DESCRIPTION:

PRIOR CONDITION: *NO PRIOR CONDITION(S)*

CATEGORY: ALIGNMENT

STUDY: DEVELOPMENT OF CRASH REDUCTION FACTORS, HOVEY AND CHOWDHURY, 2005

Star Quality Rating: [\[VIEW SCORE DETAILS\]](#)

Rating Points Total: 95

Crash Modification Factor (CMF)

Value: 0.49

Adjusted Standard Error:

Unadjusted Standard Error: 0.19

Crash Reduction Factor (CRF)

Value: 51 (*This value indicates a decrease in crashes*)

Adjusted Standard Error:

Unadjusted Standard Error: 19

Applicability

Crash Type: All

Crash Severity: K (fatal),A (serious injury),B (minor injury),C (possible injury)

Roadway Types: All

Number of Lanes:

Road Division Type:

Speed Limit:

Area Type: All

Traffic Volume:

Average Traffic Volume:

Time of Day:

If countermeasure is intersection-based

Intersection Type:

Intersection Geometry:

Traffic Control:

Major Road Traffic Volume:

Minor Road Traffic Volume:

Average Major Road Volume :

Average Minor Road Volume :

Development Details

Date Range of Data Used:

Municipality:

State: OH

Country:

Type of Methodology Used: 2

Sample Size (sites): 3 sites after

Other Details

Included in Highway Safety Manual? No

Date Added to Clearinghouse: Dec-01-2009

Comments: The number of crashes in the after period were not reported in this study, however, they have been recorded as 300+ points as a benefit of doubt for one or more of the following: (1) number of miles/sites in the reference/treatment group, (2) number of crashes in the references/treatment group, (3) reporting AADTs for the aggregate dataset but not for the dataset used for CMF development.

[VIEW THE FULL STUDY DATA](#)

[EXPORT DETAIL PAGE AS A PDF](#)

This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

For more information, contact Karen Scorty at karen.scorty@dot.gov

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