BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY

Addison County Regional Planning Commission Transportation Advisory Committee (TAC) Meeting SEPTEMBER 21, 2022



Town of Bristol | Addison County Regional Planning Commission | Dubois & King, Inc.

- Project Overview
- Kick-Off Meeting
- Existing Conditions
- Local Concerns Meeting
- Project Alternatives & Evaluations
- Alternatives Presentation Meeting
- Planning Study Report











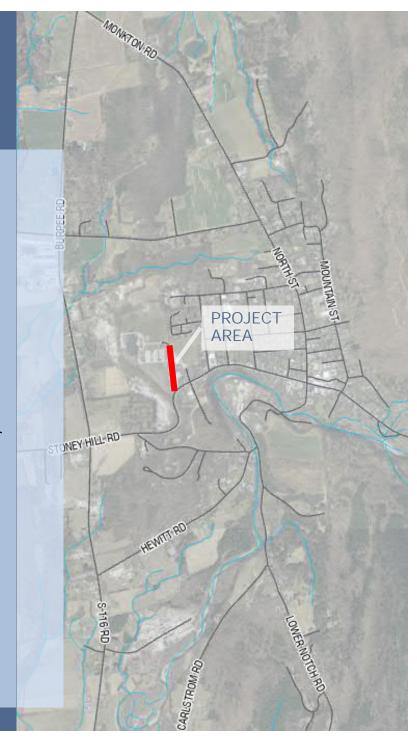


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PROJECT GOAL:

Develop a Scoping
Study Report that
identifies and
evaluates
alternatives for
pedestrian
infrastructure
options along
Airport Drive for the
Town to consider for
future design and
construction.

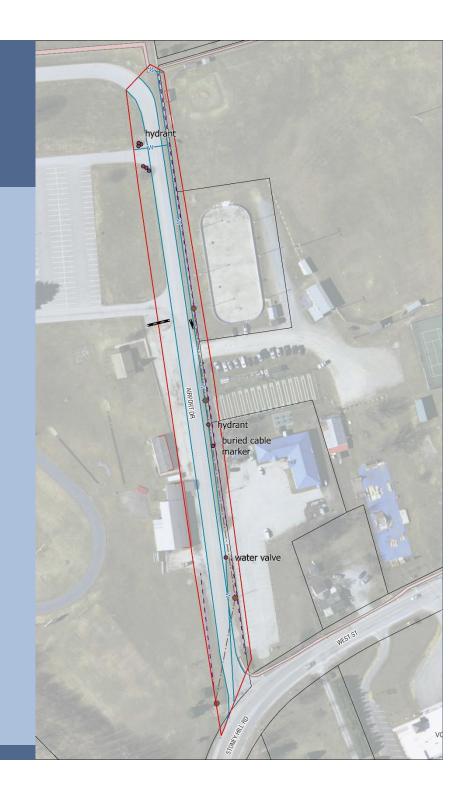
Project funded through ACRPC Transportation Planning Initiative Grant.



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KICK-OFF MEETING:

- Attendees included representatives from the Town, ACRPC, and D&K.
- Reviewed project scope, project area limits, schedule, and project logistics.





Existing Conditions: Overall Project Area

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Water line on east side of road

Road width approx. 24' to 26' wide

Gates to high school around

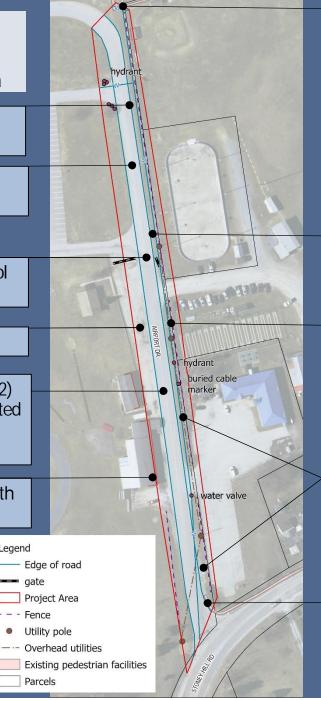
Striped parking

Airport Drive (TH 32) appears to be located within the School right-of-way

Nearby building with parking

Legend

No known environment al resources within the project area



Opportunity to connect to existing path

No known environmental resources within project area

13' from edge of road to fence

Right-of way approx. 14' to 17' from edge of Airport Drive

15' from edge of road to fence

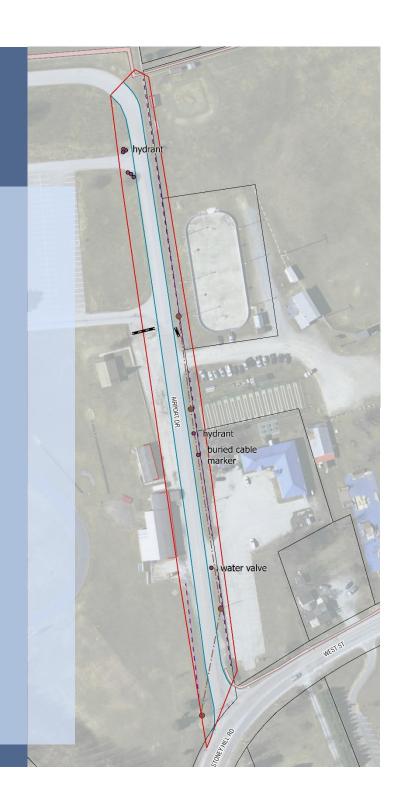


Opportunity to connect to existing sidewalk

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LOCAL CONCERNS MEETING:

- Public meeting to solicit public input on the interests, concerns, and thoughts on pros/ cons of the project area.
- At this meeting, there was general preference for a sidewalk on the east side of the road.
- Discussion
 regarding right-of-way along Airport
 Drive.



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Alternatives for Evaluation:

1: Curbed sidewalk on east side (alternative broken out into northern and southern sections)



2: Sidewalk with grass strip on east side (alternative broken out into northern and southern sections)



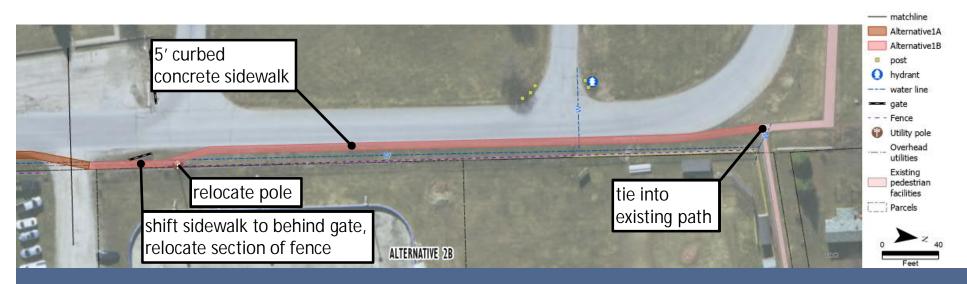
3: Sidewalk with grass strip on east side with shifted road



ALTERNATIVE 1

East side: 5' curbed sidewalk





ALTERNATIVE 2

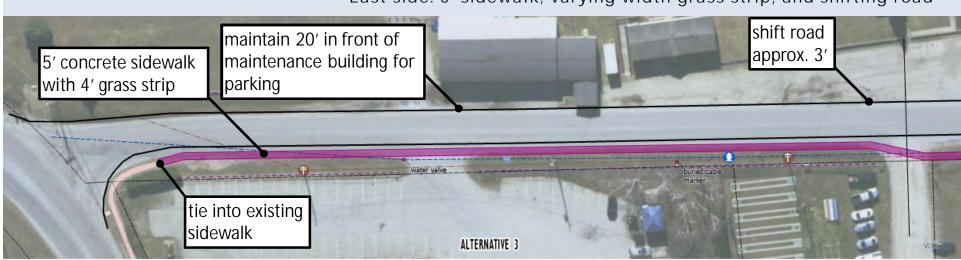
East side: 5' sidewalk with 5' grass strip

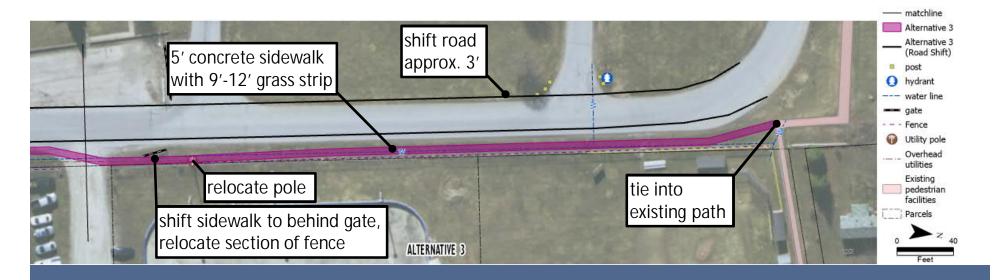




ALTERNATIVE 3

East side: 5' sidewalk, varying width grass strip, and shifting road





OPINION OF PROBABLE **CONSTRUCTION COSTS**

				Curbed Sidewalk on East Side			Sidewalk with Grass Strip on East Side			Sidewalk with Grass Strip on East Side with Shifted Road			
				1A 			1B	2A		l 2B			
				(southe	ern section)	(northe	ern section)	(southe	ern section)	(north	ern section)		3
Item	Description	Unit	Unit Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
*	Concrete Walk, No Curb	LF	\$184					540	\$99,360	480	\$88,320	1020	\$187,680
*	Concrete Walk, Concrete Curb	LF	\$277	540	\$149,580	480	\$132,960						·
203.15	Common Excavation	CY	\$22									500	\$11,000
203.28	Excavation of Surfaces and Pavements	CY	\$49									400	\$19,600
203.31	Sand Borrow	CY	\$24									200	\$4,800
301.15	Subbase of gravel	CY	\$38									300	\$11,400
406.25	Bituminous concrete pavement	TON	\$200									840	\$168,000
620.50	Removing and Resetting Fence	LF	\$30			70	\$2,100			70	\$2,100	70	\$2,100
629.29	Relocate Hydrant	EA	\$1,800					1	\$1,800				
635.11	Mobilization / Demobilization	LS	10%	included in sidewalk cost					1	\$26,000			
641.10	Traffic Control	LS	varies	included in sidewalk cost					1	\$10,000			
646.413	Durable 4" yellow line	LF	\$4									1070	\$4,280
651.15	Seed	LB	\$14									42	\$588
651.18	Fertilizer	LB	\$9									83	\$747
651.20	Agricultural limestone	TON	\$710									0.5	\$355
651.25	Hay Mulch	TON	\$920									0.5	\$460
651.35	Topsoil	CY	\$50									90	\$4,500
653	Erosion Control	LS	varies			ir	ncluded in sidev	valk cost				1	\$8,000
900.645	0.645 SP, Class A Restoration of Growth) LS varies			included in sidewalk cost									
Continge	ncy for site work / utilities	LS	varies					1	\$2,000	1	\$1,000	1	\$5,000
	Subtotal Construction				\$149,580		\$135,060		\$103,160		\$91,420		\$464,510
	20% Contingency on Alternative Specific Items Opinion of Probable Construction Cost, Conceptual				\$420		\$4,940		\$1,840		\$3,580		\$55,490
	Opinion of Probable Construc	ction Cost	, conceptual		\$150,000		\$140,000		\$105,000		\$95,000		\$520,000
Preliminary Engineering and Administration Costs** 22%				\$34,000		\$35,000		\$25,000		\$22,000		\$117,000	
Construction Admin** 14%				\$34,000		\$35,000		\$15,000		\$13,000		\$73,000	
Non-Construction Related Project Costs				\$55,000		\$55,000		\$40,000		\$35,000		\$190,000	
Non sonstruction related Project 603t3				+55,000		400,000		Ţ.0/000		+55,000		¥.75,000	
subtotal				\$205,000		\$195,000		\$145,000		\$130,000		\$710,000	
Rounded Total (Excluding ROW costs)			\$2	05,000	\$1	95,000	\$1	45,000	\$1	130,000	\$	710,000	
				Alternative 1A + 1B: \$400,000			Alternative 2A + 2B: \$275,000			Alternat	ive 3: \$710,000		
	hannally annotheration and value from		<u> </u>	01 111	D 11 1011								

^{*} Average base sidewalk construction cost value from the VTrans Report on Shared-Use Path and Sidewalk Costs, January 2020.

** Percentages based on VTrans Report on Shared-Use Path and Sidewalk Costs, January 2020, rounded to the nearest \$1,000.

Assumption: Utility company will pay for costs associated with required relocation of utility poles.

EVALUATION MATRIX

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		Curbed Sidewalk on East Side			ss Strip on East Side	Sidewalk with Grass Strip on East Side with Shifted Road	No Build
		1A (southern section)	1B (northern section)	2A (southern section)	2B (northern section)	3	4
Project Costs	Construction	\$150,000	\$140,000	\$105,000	\$95,000	\$520,000	\$0
	Design, Admin, and Resident Engineer	\$55,000	\$55,000	\$40,000	\$35,000	\$190,000	\$0
	Total Project Costs (excluding ROW)	\$205,000	\$195,000	\$145,000	\$130,000	\$710,000	\$0
	Total Project Costs for Combined A + B	\$400	0,000	\$275	5,000	\$710,000	\$0
Level of Meeting Goal of Focus Area	Improved Safety for Pedestrians along Project Area	Improved for southern portion of project area	Improved for northern portion of project area	Improved for southern portion of project area	Improved for northern portion of project area	Improved	No Improvement
Land Use	ROW Impacts	potential	potential	potential	potential	potential	no
	Utility relocation	potential	potential	yes	yes	yes	no
	Streams/Floodplain	no	no	no	no	no	no
В	Fish & Wildlife	no	no	no	no	no	no
sesc	Wetlands	no	no	no	no	no	no
<u> </u>	Wildlife/Cons. Areas	no	no	no	no	no	no
tur ts	Agricultural Lands	prime soils (statewide)	prime soils (statewide)	prime soils (statewide)	prime soils (statewide)	prime soils (statewide)	no
al/Cultu Impacts	Archaeological / Historic	unknown	unknown	unknown	unknown	unknown	no
la j	Public Lands (Section 4f)	no	no	no	no	no	no
Environmental/Cultural Resource Impacts	LWCP (Section 6(f))	no	Bristol skating rink is adjacent (est. no adverse impact)	no	Bristol skating rink is adjacent (est. no adverse impact)	Bristol skating rink is adjacent (est. no adverse impact)	no
E'n	Hazardous Waste	no	no	no	no	no	no
	Act 250 or CE	CE	CE	CE	CE	CE	no
Permitting	Section 404 (wetlands)	no	no	no	no	no	no
	Section 401 Water Quality	no	no	no	no	no	no
	State Wetlands Permit	no	no	no	no	no	no
	Stream Alteration Permit	no	no	no	no	no	no
	Construction Stormwater Discharge Permit	no	no	no	no	potential	no
	Operational Stormwater Discharge Permit	no	no	no	no	unlikely*	no
	Lakes & Ponds no		no	no	no	no	no
	R, T, E Species	no	no	no	no	no	no
	Section 1111 Permit	no	no	no	no	no	no
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^{*} An operational stormwater discharge permit would likely be needed for Alternative 3 if the roadway is determined to be owned by the school parcel due to the school currently having an existing operational stormwater permit.

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FINAL STEPS:

- ACRPC TAC Meeting
- Finalize Scoping
 Study Report

