

BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY

ALTERNATIVES PRESENTATION MEETING

SEPTEMBER 14, 2022



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

BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY: ALTERNATIVES PRESENTATION MEETING

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



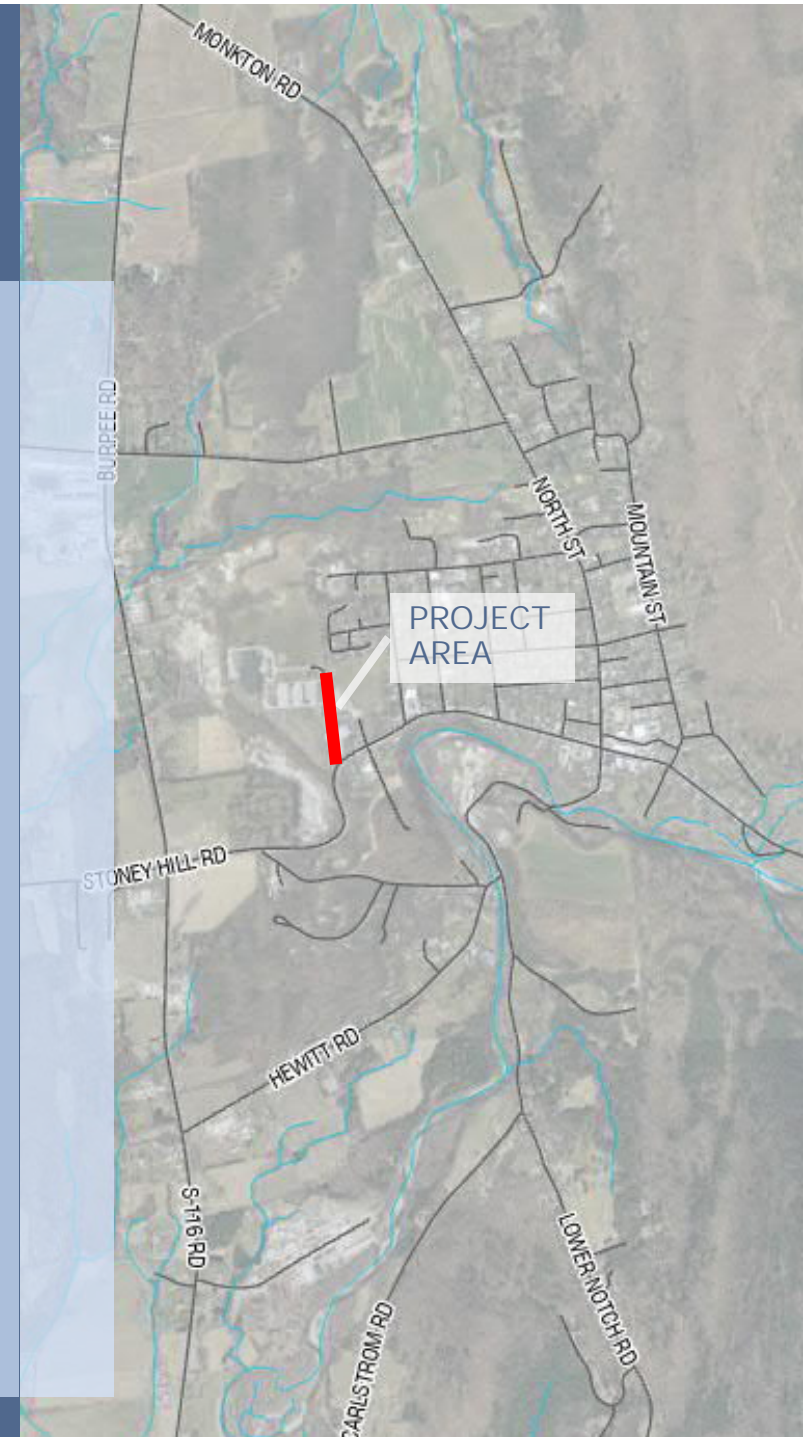
BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY: ALTERNATIVES PRESENTATION MEETING

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

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.

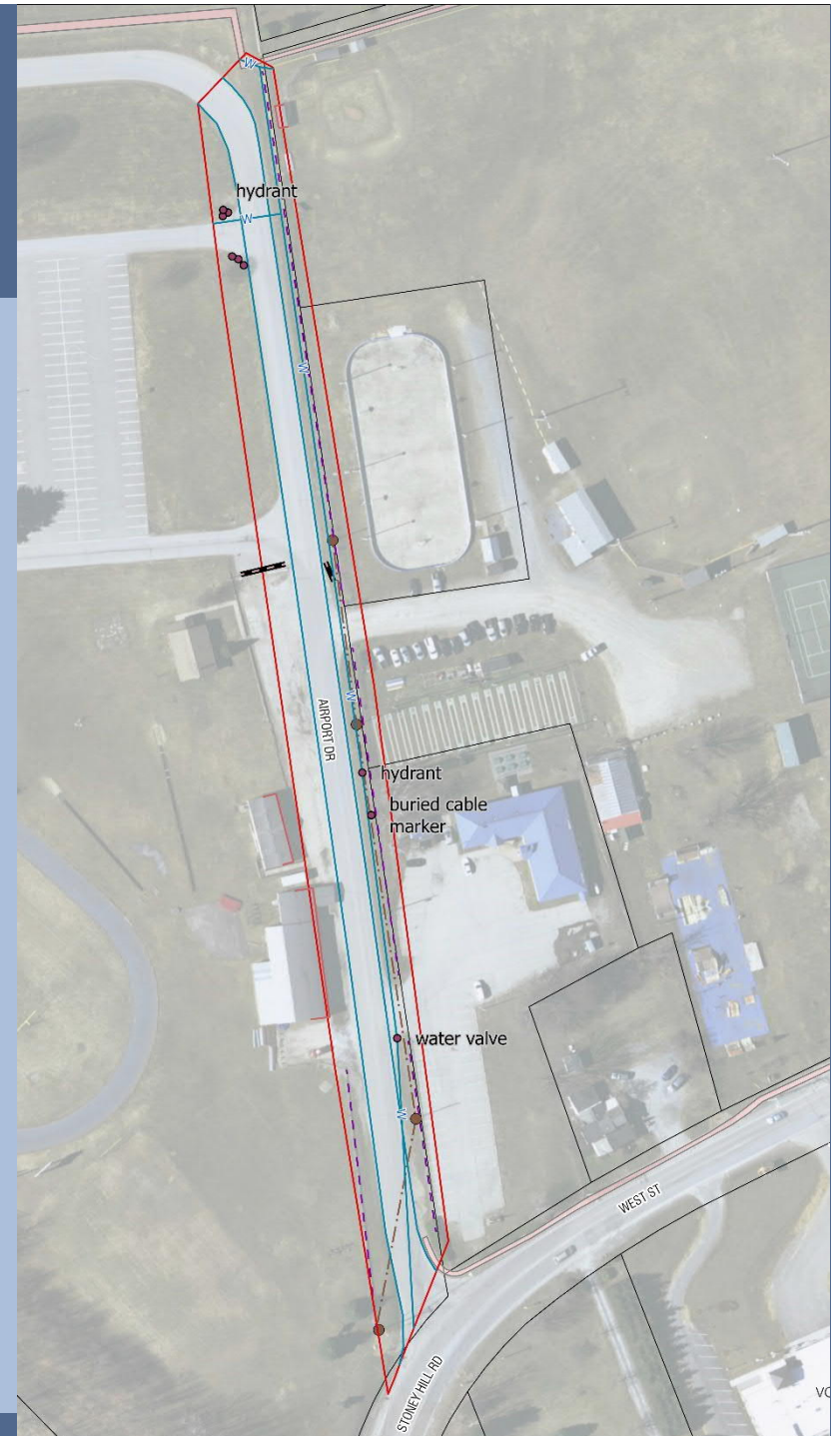


BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY: ALTERNATIVES PRESENTATION MEETING

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

KICK-OFF MEETING:

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



BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY: ALTERNATIVES PRESENTATION MEETING

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



BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY: ALTERNATIVES PRESENTATION MEETING

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

Existing Conditions:
Overall Project Area

Water line on east side of road

Road width approx. 24' to 26' wide

Gates to high school ground

Striped parking

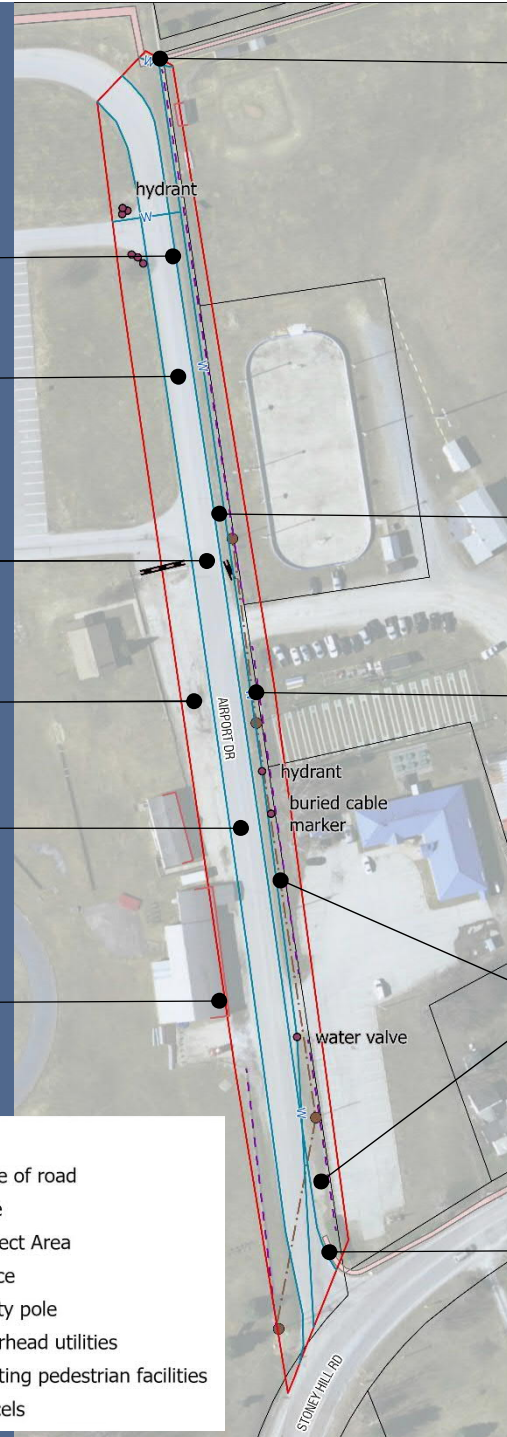
Airport Drive (TH 32) appears to be located within the School right-of-way

Nearby building with parking

No known environmental resources within the project area

Legend

- Edge of road
- gate
- ▭ Project Area
- - - Fence
- Utility pole
- - - Overhead utilities
- ▭ Existing pedestrian facilities
- ▭ Parcels



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



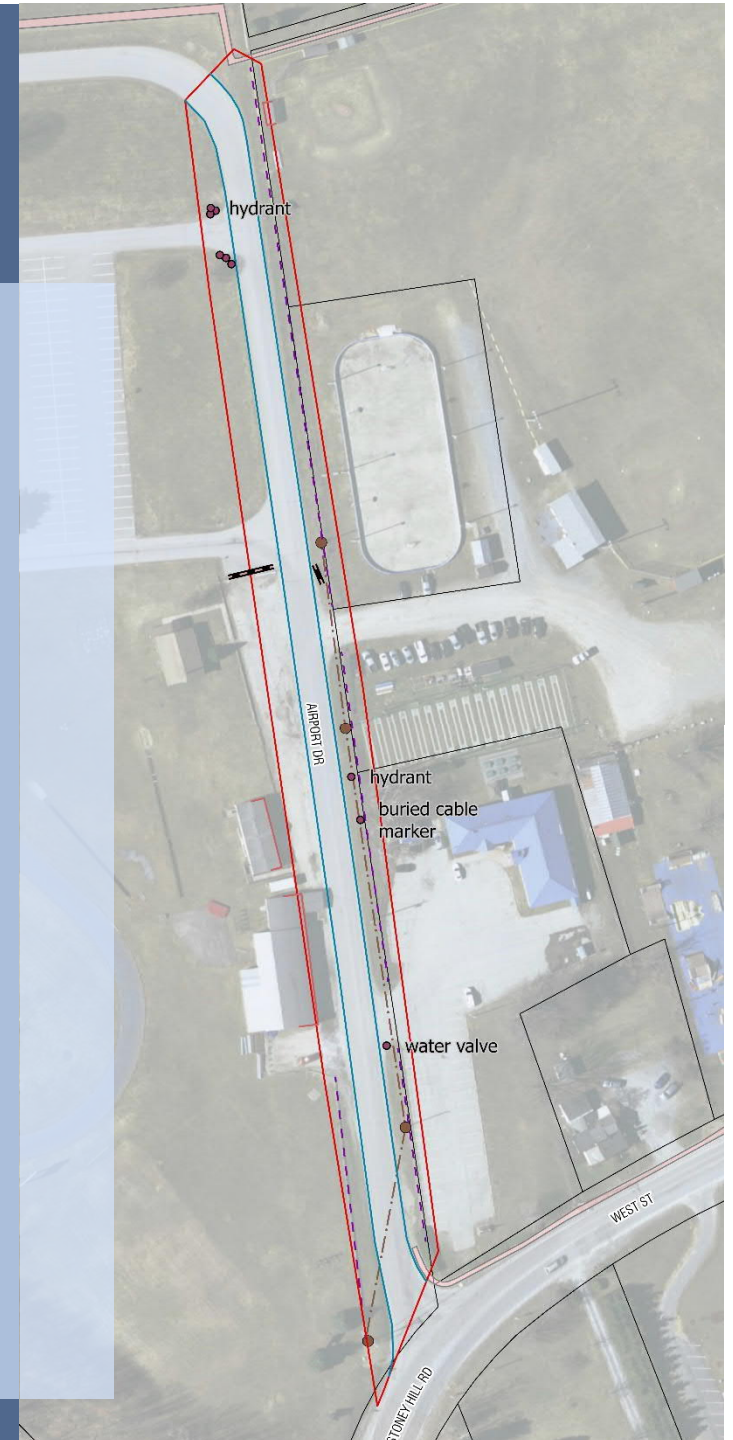
Opportunity to connect to existing sidewalk

BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY: ALTERNATIVES PRESENTATION MEETING

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

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.



BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY: ALTERNATIVES PRESENTATION MEETING

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

Alternatives for Evaluation:

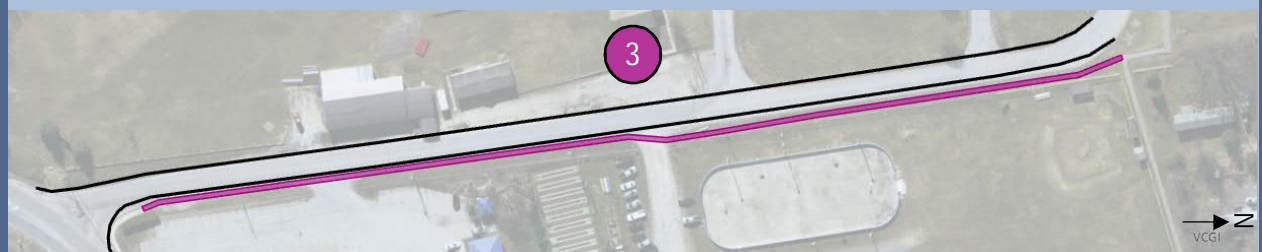
1: Curbed sidewalk on east side (alternative broken out into northern and southern sections)



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



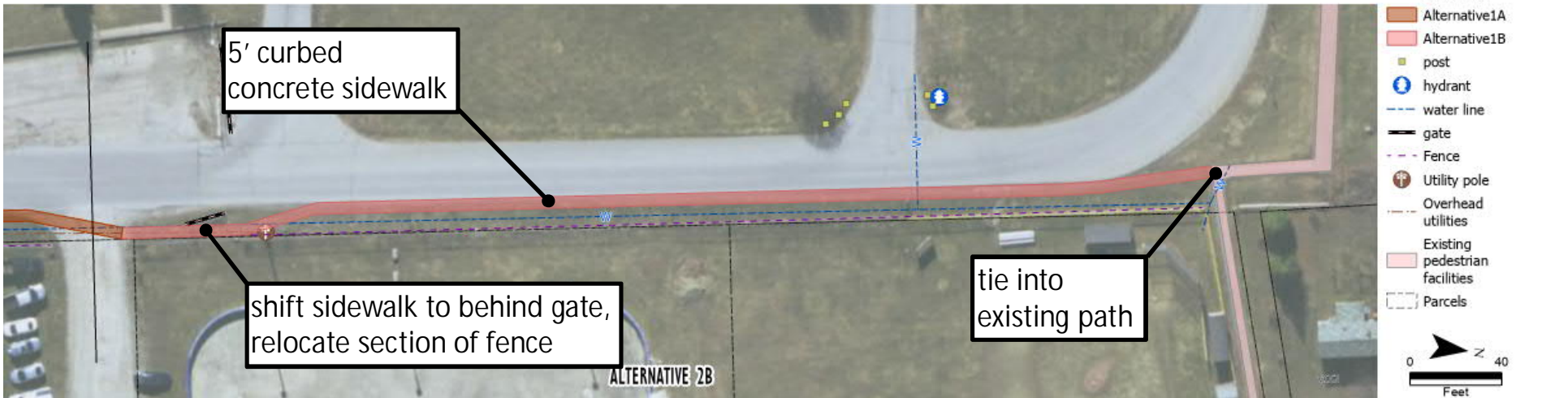
3: Sidewalk with grass strip on east side with shifted road



BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY: ALTERNATIVES PRESENTATION MEETING

ALTERNATIVE 1

East side: 5' curbed sidewalk



BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY: ALTERNATIVES PRESENTATION MEETING

ALTERNATIVE 2

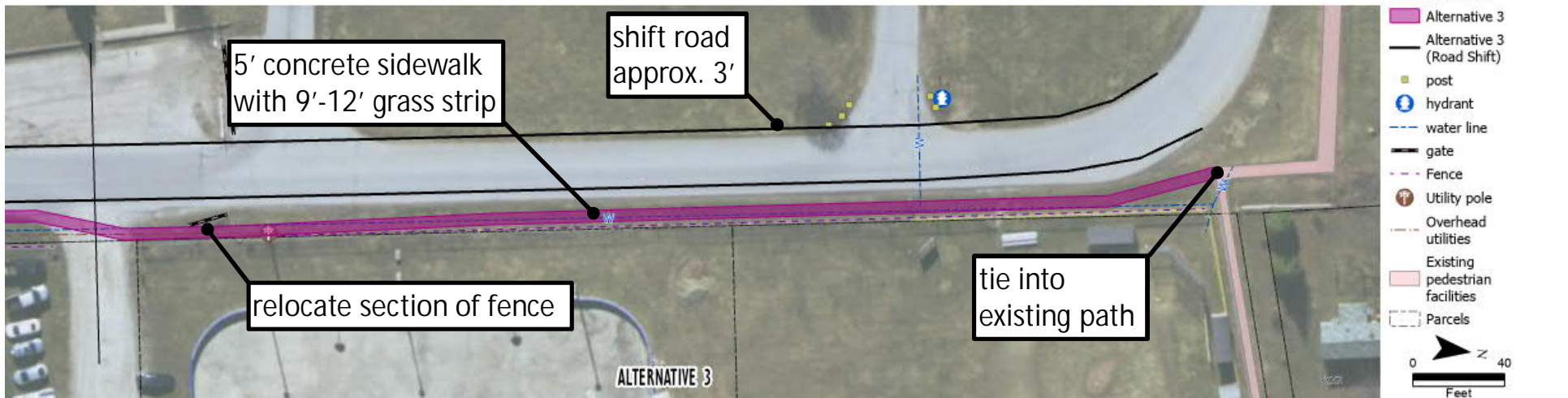
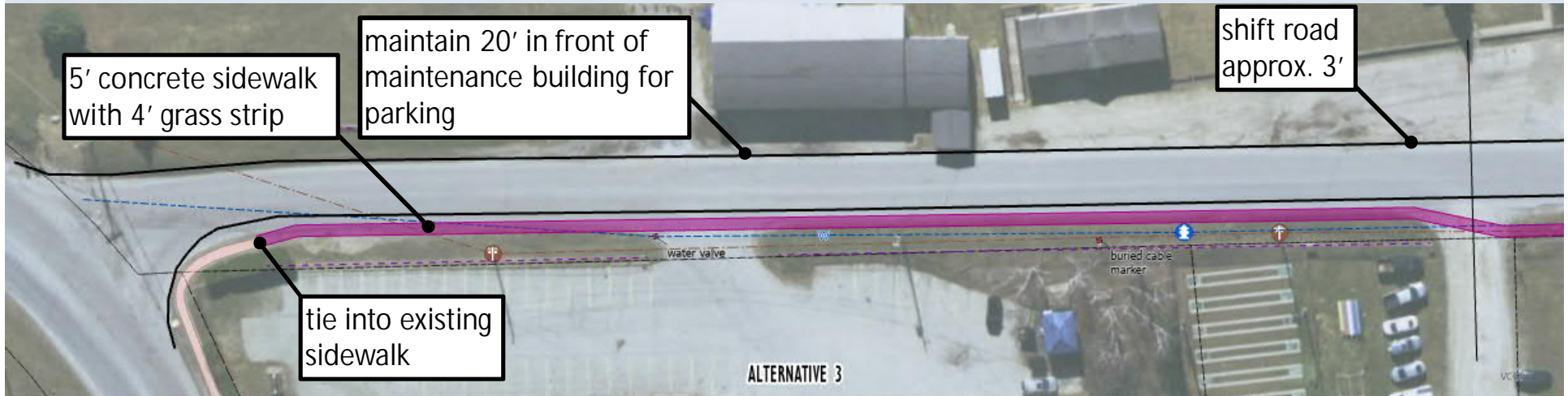
East side: 5' sidewalk with 5' grass strip



BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY: ALTERNATIVES PRESENTATION MEETING

ALTERNATIVE 3

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



BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY: ALTERNATIVES PRESENTATION MEETING

OPINION OF PROBABLE CONSTRUCTION COSTS

| Item | Description | Unit | Unit Cost | Curbed Sidewalk on East Side | | Sidewalk with Grass Strip on East Side | | | | Sidewalk with Grass Strip on East Side with Shifted Road | | | |
|--|--------------------------------------|------|-----------|------------------------------|--------------------------------|--|-----------|--------------------------------|-----------|--|--------------------------|----------|-----------|
| | | | | 1A (southern section) | | 1B (northern section) | | 2A (southern section) | | 2B (northern section) | | 3 | |
| | | | | 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 | \$20 | | | | | | | | | 500 | \$10,000 |
| 203.28 | Excavation of Surfaces and Pavements | CY | \$30 | | | | | | | | | 400 | \$12,000 |
| 203.31 | Sand Borrow | CY | \$30 | | | | | | | | | 200 | \$6,000 |
| 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 | \$5,000 | | | | | 1 | \$5,000 | | | | |
| 635.11 | Mobilization / Demobilization | LS | 10% | | | ----- included in sidewalk cost ----- | | | | | 1 | \$24,000 | |
| 641.10 | Traffic Control | LS | varies | | | ----- included in sidewalk cost ----- | | | | | 1 | \$10,000 | |
| 646.413 | Durable 4" yellow line | LF | \$0.75 | | | | | | | | | 1070 | \$803 |
| 651.15 | Seed | LB | \$12 | | | | | | | | | 42 | \$504 |
| 651.18 | Fertilizer | LB | \$6 | | | | | | | | | 83 | \$498 |
| 651.20 | Agricultural limestone | TON | \$850 | | | | | | | | | 0.5 | \$425 |
| 651.35 | Topsoil | CY | \$50 | | | | | | | | | 90 | \$4,500 |
| 653 | Erosion Control | LS | varies | | | ----- included in sidewalk cost ----- | | | | | 1 | \$8,000 | |
| 900.645 | SP, Class A Restoration of Growth) | LS | varies | | | ----- included in sidewalk cost ----- | | | | | | | |
| | Contingency for site work | LS | varies | | | | | | | | | 1 | \$5,000 |
| Subtotal Construction | | | | | \$149,580 | | \$135,060 | | \$104,360 | | \$90,420 | | \$450,910 |
| 20% Contingency on Alternative Specific Items | | | | | \$420 | | \$4,940 | | \$5,640 | | \$4,580 | | \$54,091 |
| Opinion of Probable Construction Cost, Conceptual | | | | | \$150,000 | | \$140,000 | | \$110,000 | | \$95,000 | | \$505,000 |
| Preliminary Engineering and Administration Costs** | | | | 22% | \$34,000 | | \$35,000 | | \$25,000 | | \$22,000 | | \$114,000 |
| Construction Admin** | | | | 14% | \$21,000 | | \$20,000 | | \$15,000 | | \$13,000 | | \$71,000 |
| Non-Construction Related Project Costs | | | | | \$55,000 | | \$55,000 | | \$40,000 | | \$35,000 | | \$185,000 |
| subtotal | | | | | \$205,000 | | \$195,000 | | \$150,000 | | \$130,000 | | \$690,000 |
| Rounded Total (Excluding ROW costs) | | | | | \$205,000 | | \$195,000 | | \$150,000 | | \$130,000 | | \$690,000 |
| | | | | | Alternative 1A + 1B: \$400,000 | | | Alternative 2A + 2B: \$280,000 | | | Alternative 3: \$690,000 | | |

* 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.

BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY: ALTERNATIVES PRESENTATION MEETING

EVALUATION MATRIX

| | | Curbed Sidewalk on East Side | | Sidewalk with Grass 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 | \$110,000 | \$95,000 | \$505,000 | \$0 |
| | Design, Admin, and Resident Engineer | \$55,000 | \$55,000 | \$40,000 | \$35,000 | \$185,000 | \$0 |
| | Total Project Costs (excluding ROW) | \$205,000 | \$195,000 | \$150,000 | \$130,000 | \$690,000 | \$0 |
| Total Project Costs for Combined A + B | | \$400,000 | | \$280,000 | | \$690,000 | \$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 |
| Environmental/Cultural Resource Impacts | Streams/Floodplain | no | no | no | no | no | no |
| | Fish & Wildlife | no | no | no | no | no | no |
| | Wetlands | no | no | no | no | no | no |
| | Wildlife/Cons. Areas | no | no | no | no | no | no |
| | Agricultural Lands | prime soils (statewide) | prime soils (statewide) | prime soils (statewide) | prime soils (statewide) | prime soils (statewide) | no |
| | Archaeological / Historic | unknown | unknown | unknown | unknown | unknown | no |
| | Public Lands (Section 4f) | no | no | no | no | no | no |
| | 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 |
| Hazardous Waste | no | no | no | no | no | no | |
| Permitting | Act 250 or CE | CE | CE | CE | CE | CE | no |
| | 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 |

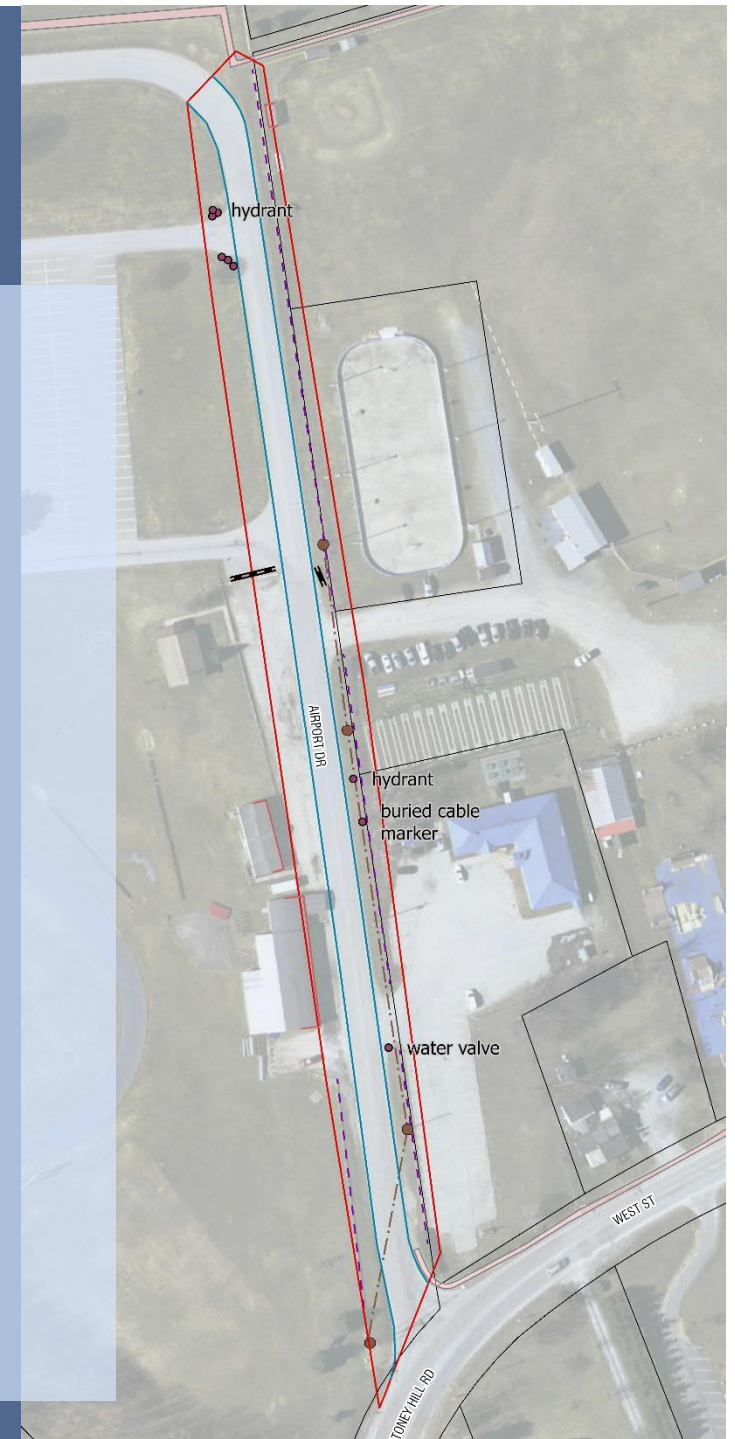
* An operational stormwater discharge permit would likely be needed for Alternative 3 if the roadway is determined to be owned by the school parcel due to the school currently having an existing operational stormwater permit.

BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY: ALTERNATIVES PRESENTATION MEETING

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

NEXT STEPS:

- Finalize Scoping Study Report
- Present project at ACRPC TAC meeting



BRISTOL AIRPORT DRIVE SIDEWALK SCOPING STUDY: ALTERNATIVES PRESENTATION MEETING

Comments?

Questions?



Valerie Capels
Bristol Town Administrator

Mike Winslow
Addison County Regional
Planning Commission

Jenny Austin, P.E.
DuBois & King, Inc.