

# ATTACHMENT 1

## Bridge Assessment



9/1/2023

Kleinfelder Project No.: 24000041.001A

**SUBJECT: Wabash Cannonball Trail – Bridge Assessment**

Between Montpelier and the Eastern edge of Williams County there are three bridges along the Wabash Cannonball Trail. Below is an assessment of each bridge.

**South Liberty Street Bridge**

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**Bridge Location: Bridge over South Liberty Street**

**Span: 56'**

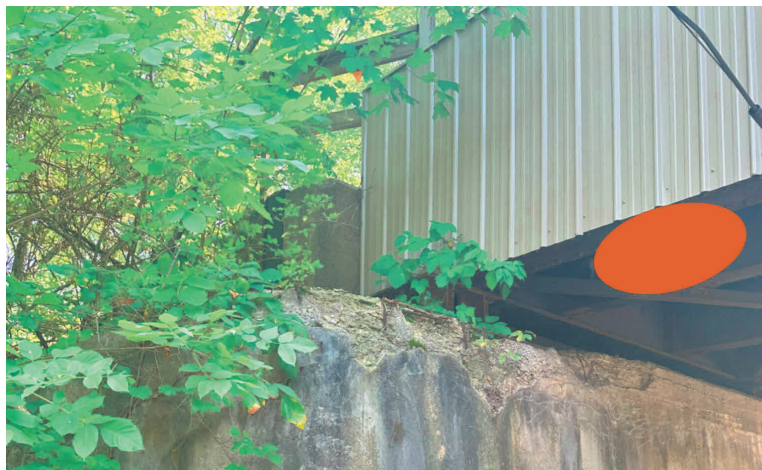
**Width: 16'**

**~ 900 sq ft**

The bridge over S Liberty St. is a through girder bridge with wood decking over the ties. The roof framing was added on top of the steel plate girders. This bridge and its structural members are in fair condition with minor repairs recommended.



We recommend replacing the wood decking and joists to support maintenance and emergency vehicle loads in the future. Although the trail is not intended for ATV use, when walking the path there were tire marks along portions of the trail. Replacing the decking to support vehicle loads would also ensure any improper use of the path would still be safe and supported. The decking is otherwise in fair condition.



There are a few areas of exposed rebar in the abutments below this bridge. These areas should be repaired and patched to not compromise the integrity of the bridge. Also seen in this photo (underneath the filled region), is vandalism with expletive words. Since this bridge spans over a county road, we recommend painting over. On one side of this bridge there is damaged siding. This damage is purely cosmetic and is not necessary to remedy for structural reasons.

## Williams County Road 15 Bridge

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**Bridge Location: Bridge over Williams County Road 15**

**Span: 47'**

**Width: 16'**

**~ 760 sq ft**

The bridge spanning County Road 15 is similar in construction to the bridge spanning S Liberty St. The framing added for the roof is slightly different but in similar condition. This bridge and its structural members are in fair condition with minor repairs recommended. The recommendations of this bridge are similar in nature to the recommendations for the S Liberty St. bridge and are as follows:

1. Repair concrete where rebar is exposed.
2. Remove decking and joists to support vehicle loads. Ties are to remain.
3. Paint over expletive vandalism.

In addition to the above, we recommend adding a handrail to the approach to deter people from walking off the path.



## Beaver Creek Bridge

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**Bridge Location: Beaver Creek (between CR 17 and CR 17.75)**

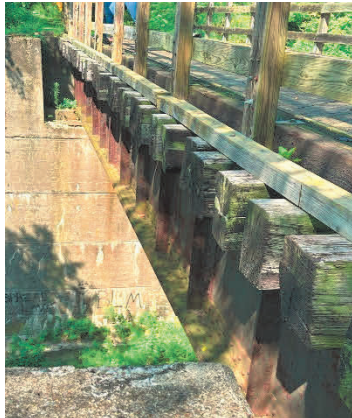
**Span: 57'**

**Width: 9.5'**

**~ 550 sq ft**

The bridge spanning Beaver Creek is an open deck girder bridge. This bridge and its structural members are in fair condition with minor repairs recommended. The wood members on this bridge are more weathered than the previous two bridges.

Beaver Creek has a large drop off along the bank. We recommend adding railing to the approach on both sides to deter people from wandering off the path and prevent bicyclists from exiting the path into a drop off hazard. The existing handrail on the bridge is not secured. We recommend replacing this with a handrail that can withstand an impact, since it is a horse friendly trail.



Similar to the previous two bridges, we recommend the decking be replaced to support maintenance and emergency vehicle loads. Some of the ties below the decking have substantial rot and we recommend they be replaced with either new ties or galvanized steel. It is recommended to strip all wood framing, down to the steel, and replace it in its entirety. The layers of wood on this bridge are in worse condition than the previous two bridges and require more immediate attention.

## Summary

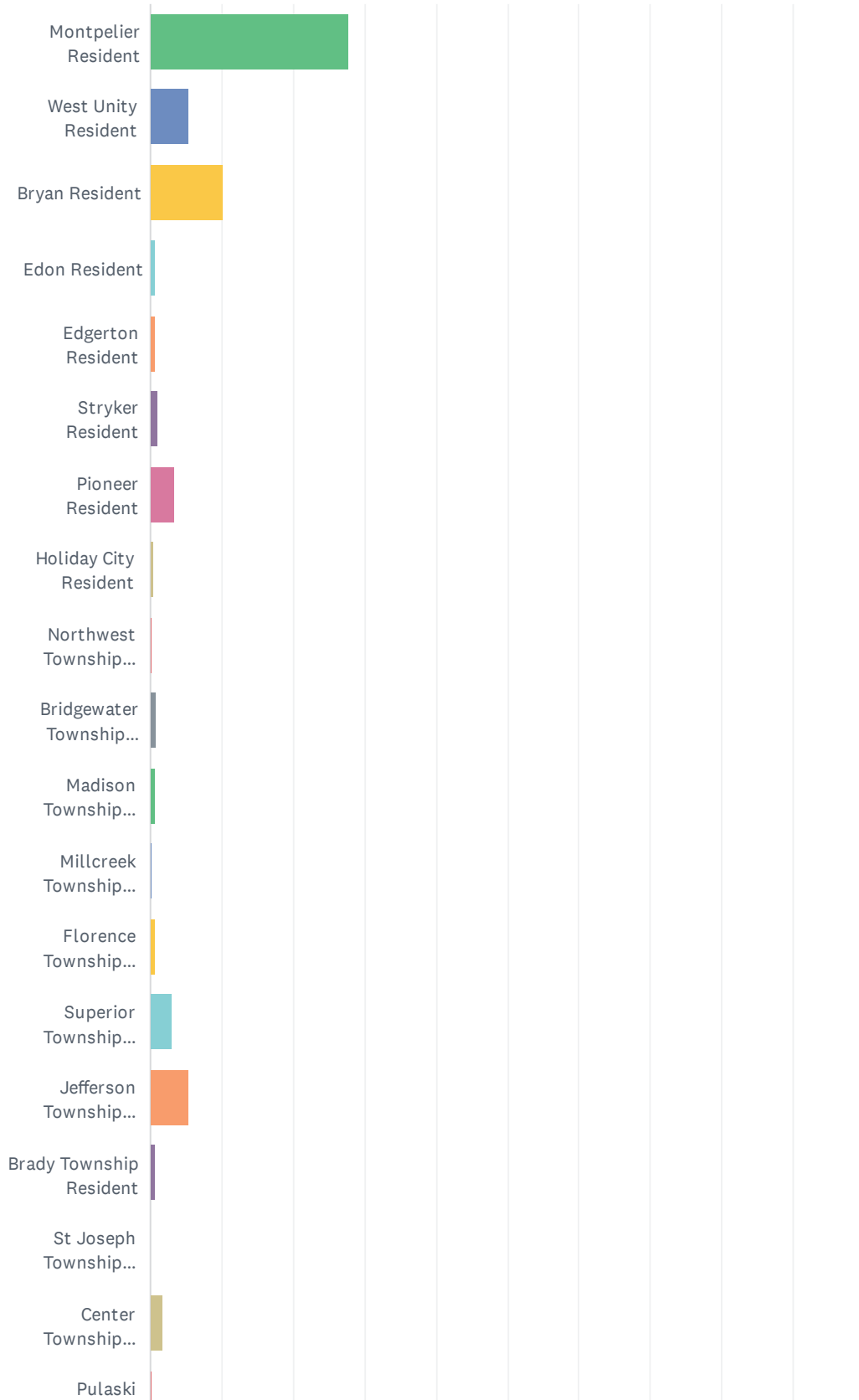
For all decking being replaced we recommend using composite or treated boards with integral non-slip or similar coating. For all other wood being replaced (handrail, joists, ties) we recommend using treated boards. The ties that are to be removed can either be replaced with new ties or galvanized wide flange beams. For all bridges, the steel substructure is in fair condition and can remain with areas to be spot painted. All concrete abutments should be patched in areas where the concrete has been weathered away and where rebar is exposed.

# ATTACHMENT 2

## Public Survey Results

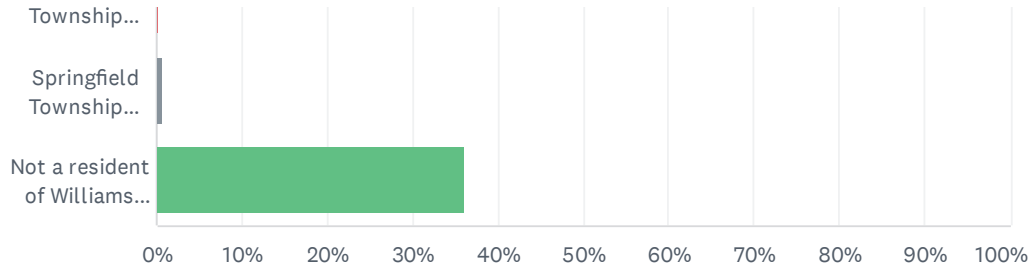
# Q1 Which best describes you?

Answered: 554 Skipped: 0





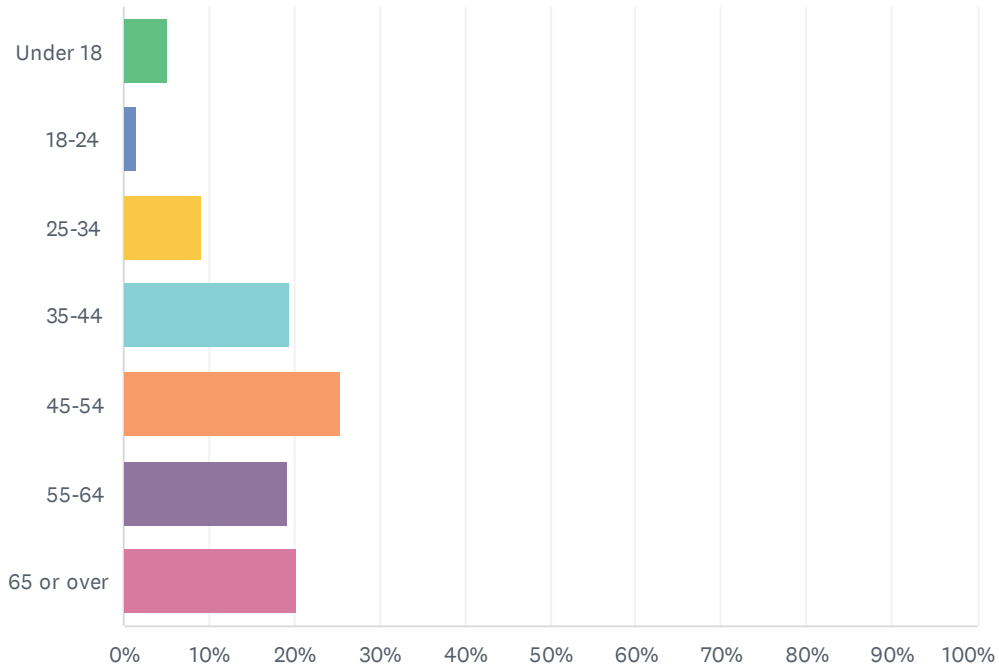
## Wabash Cannonball Trail



ANSWER CHOICES	RESPONSES	
Montpelier Resident	27.80%	154
West Unity Resident	5.42%	30
Bryan Resident	10.29%	57
Edon Resident	0.72%	4
Edgerton Resident	0.54%	3
Stryker Resident	1.08%	6
Pioneer Resident	3.43%	19
Holiday City Resident	0.36%	2
Northwest Township Resident	0.18%	1
Bridgewater Township Resident	0.90%	5
Madison Township Resident	0.72%	4
Millcreek Township Resident	0.18%	1
Florence Township Resident	0.72%	4
Superior Township Resident	3.07%	17
Jefferson Township Resident	5.23%	29
Brady Township Resident	0.72%	4
St Joseph Township Resident	0.00%	0
Center Township Resident	1.81%	10
Pulaski Township Resident	0.18%	1
Springfield Township Resident	0.54%	3
Not a resident of Williams County	36.10%	200
<b>TOTAL</b>		<b>554</b>

## Q2 What is your age range?

Answered: 554 Skipped: 0



ANSWER CHOICES	RESPONSES	
Under 18	5.05%	28
18-24	1.44%	8
25-34	9.21%	51
35-44	19.49%	108
45-54	25.45%	141
55-64	19.13%	106
65 or over	20.22%	112
TOTAL		554

### Q3 What is your zip code?

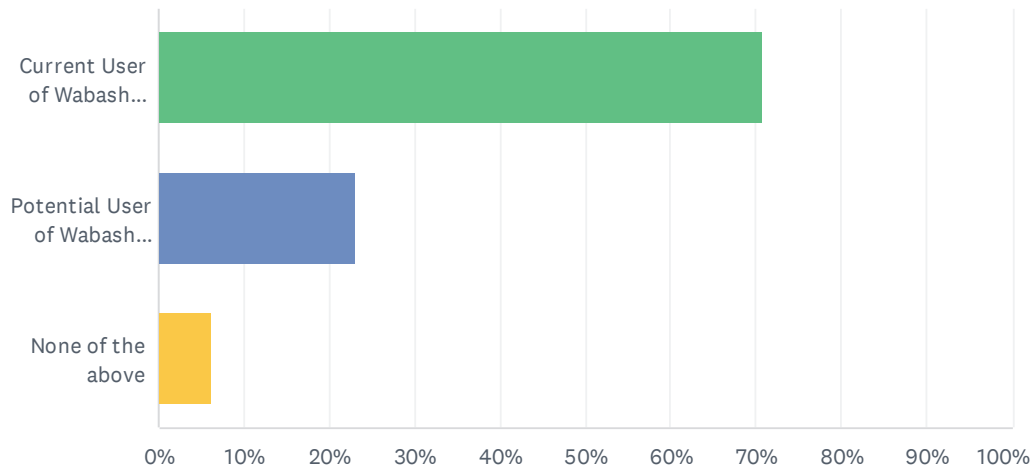
Answered: 542 Skipped: 12

### Q3 What is your zip code?

43515 43549 43502 43606 43537 43614 43551 43402 43554  
43518 43506 43566 43543 43557 43570 43545  
43571 43560 43558 43615 43567 43517 43542 43522 43512

## Q4 Which best describes you?

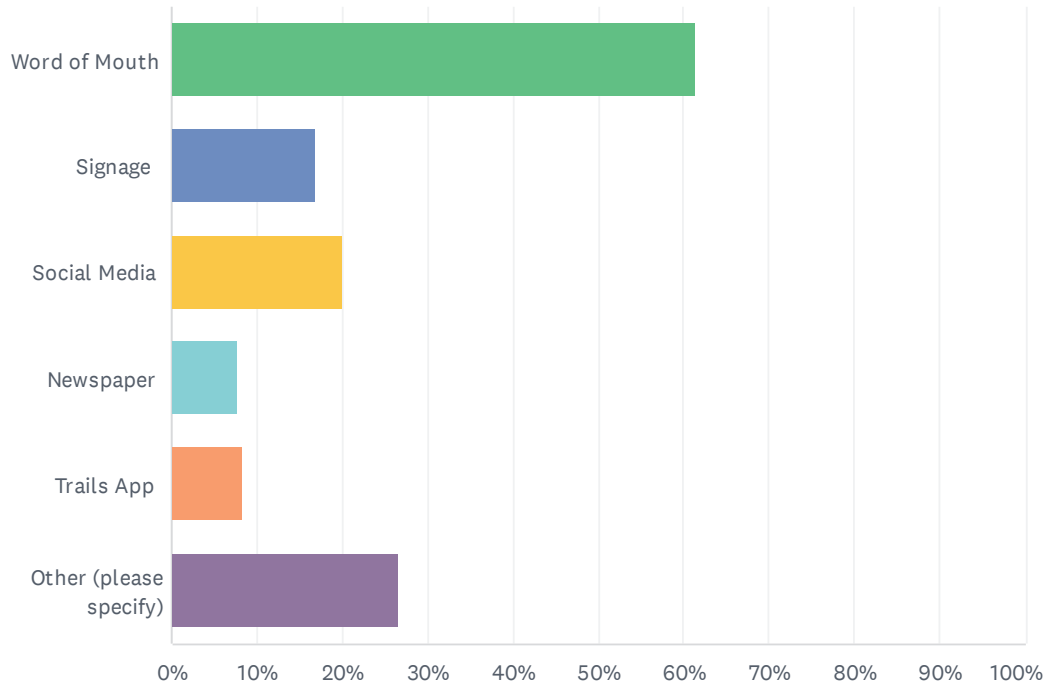
Answered: 554 Skipped: 0



ANSWER CHOICES	RESPONSES	
Current User of Wabash Cannonball Trail	70.76%	392
Potential User of Wabash Cannonball Trail	23.10%	128
None of the above	6.14%	34
<b>TOTAL</b>		<b>554</b>

### Q5 If you are a user of the Wabash Cannonball Trail, how did you hear about it? Please check all that apply.

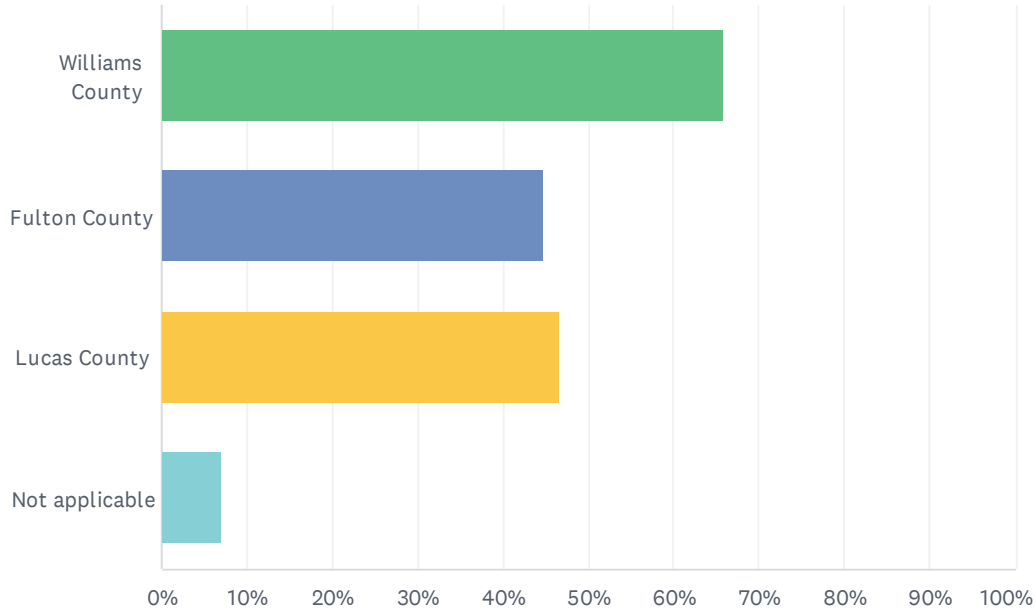
Answered: 481 Skipped: 73



ANSWER CHOICES	RESPONSES	
Word of Mouth	61.33%	295
Signage	16.84%	81
Social Media	19.96%	96
Newspaper	7.69%	37
Trails App	8.32%	40
Other (please specify)	26.61%	128
Total Respondents: 481		

Q6 If you are a user of the Wabash Cannonball Trail, which county's section have you traveled? Please check all that apply.

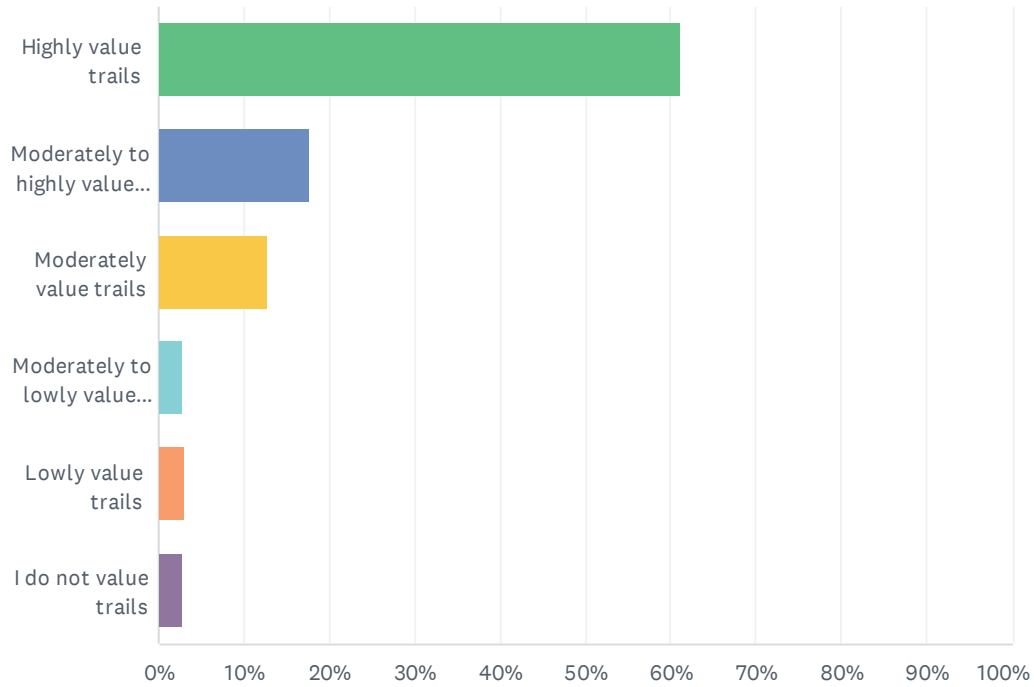
Answered: 490 Skipped: 64



ANSWER CHOICES	RESPONSES	
Williams County	65.92%	323
Fulton County	44.69%	219
Lucas County	46.73%	229
Not applicable	6.94%	34
Total Respondents: 490		

## Q7 How much do you value trails?

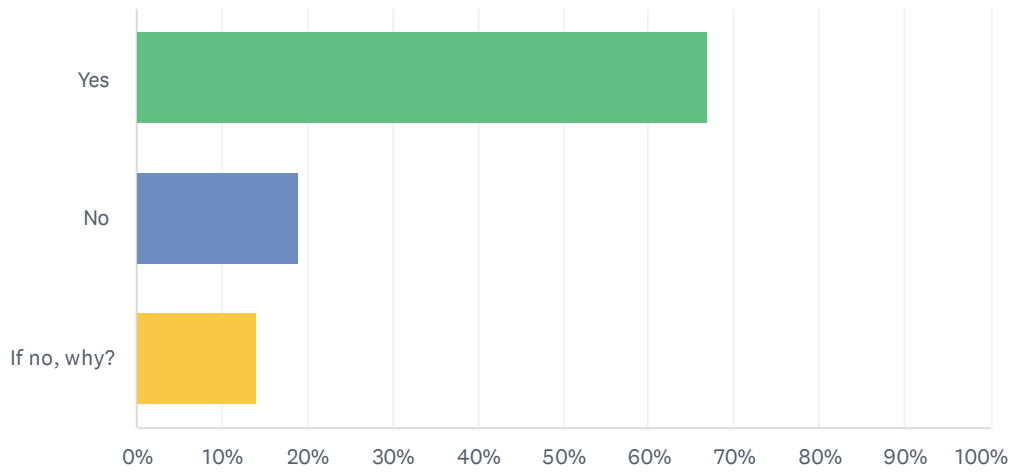
Answered: 550 Skipped: 4



ANSWER CHOICES	RESPONSES	
Highly value trails	61.27%	337
Moderately to highly value trails	17.64%	97
Moderately value trails	12.73%	70
Moderately to lowly value trails	2.73%	15
Lowly value trails	2.91%	16
I do not value trails	2.73%	15
<b>TOTAL</b>		<b>550</b>

## Q8 Do you travel other trails in Ohio and nation-wide?

Answered: 549 Skipped: 5



ANSWER CHOICES	RESPONSES	
Yes	67.03%	368
No	18.94%	104
If no, why?	14.03%	77
<b>TOTAL</b>		<b>549</b>



## Q9 What other trails have you traveled?

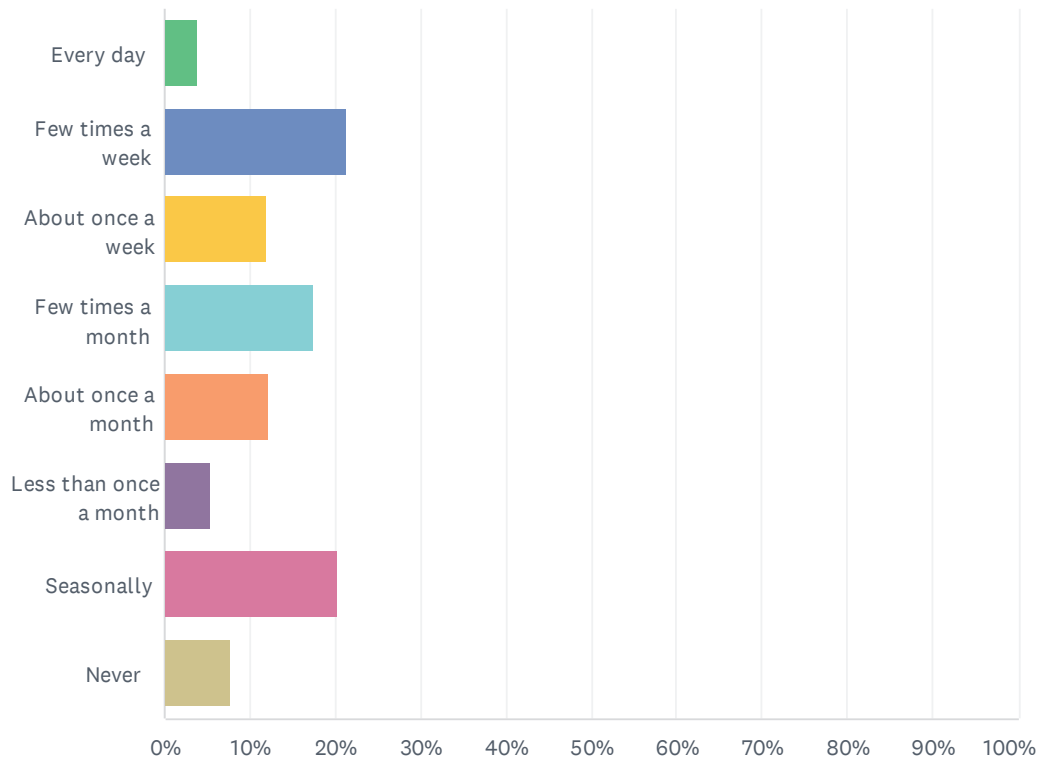
Answered: 332 Skipped: 222

### Q9 What other trails have you traveled?

trail trails State national parks Lots University Parks Several many list OTET canal trail  
Pumpkin Vine inland coast Little Miami Lucas Cuyahoga University  
North Country Trail Olentangy Various Erie Towpath Katy area  
Toledo Metro Parks UT Golls woods Many national parks Buckeye  
remember names county Angola River NCT Ohio Mountain  
Hocking Hills BG parks Elm North Coast  
Slippery Elm Toledo Metroparks Trail Columbus  
None Florida Michigan Tennessee state parks around  
Oak Openings Cleveland Appalachian Rails trails  
Iron Horse bike trails Metroparks Gap C O Lake Xenia state etc  
North Coast Inland hills Toledo woods Coast Inland Trail N Indiana  
Locally Pumpkinvine North Country Cuyahoga Valley River Greenway  
Slippery Elm North moose trails others Lake La Su Pokagon Ohio Erie

## Q10 How often, on average, do you use trails currently?

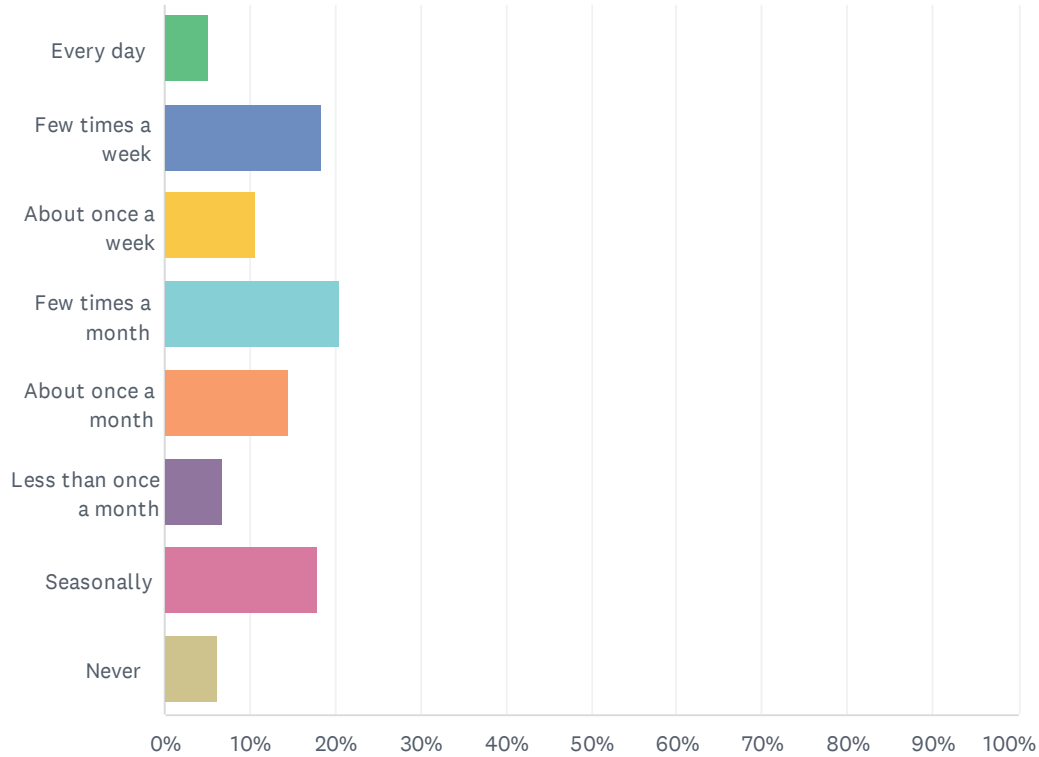
Answered: 546 Skipped: 8



ANSWER CHOICES	RESPONSES	
Every day	3.85%	21
Few times a week	21.25%	116
About once a week	11.90%	65
Few times a month	17.58%	96
About once a month	12.09%	66
Less than once a month	5.31%	29
Seasonally	20.33%	111
Never	7.69%	42
<b>TOTAL</b>		<b>546</b>

## Q11 How often, on average, would you use an improved Wabash Cannonball Trail in Williams County?

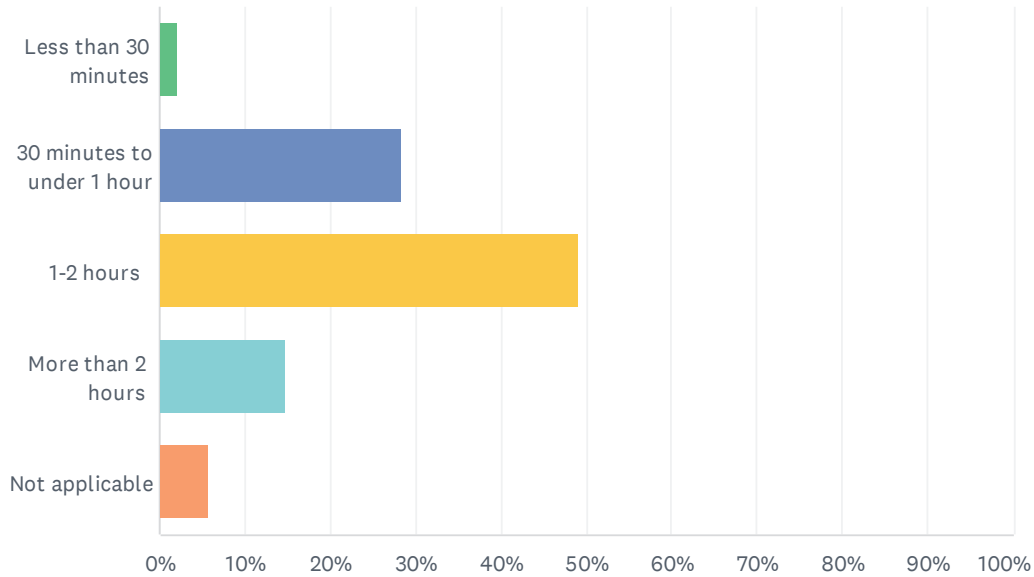
Answered: 548 Skipped: 6



ANSWER CHOICES	RESPONSES	
Every day	5.11%	28
Few times a week	18.25%	100
About once a week	10.77%	59
Few times a month	20.44%	112
About once a month	14.60%	80
Less than once a month	6.75%	37
Seasonally	17.88%	98
Never	6.20%	34
<b>TOTAL</b>		<b>548</b>

## Q12 How much time do you or would you generally spend on the trail each visit?

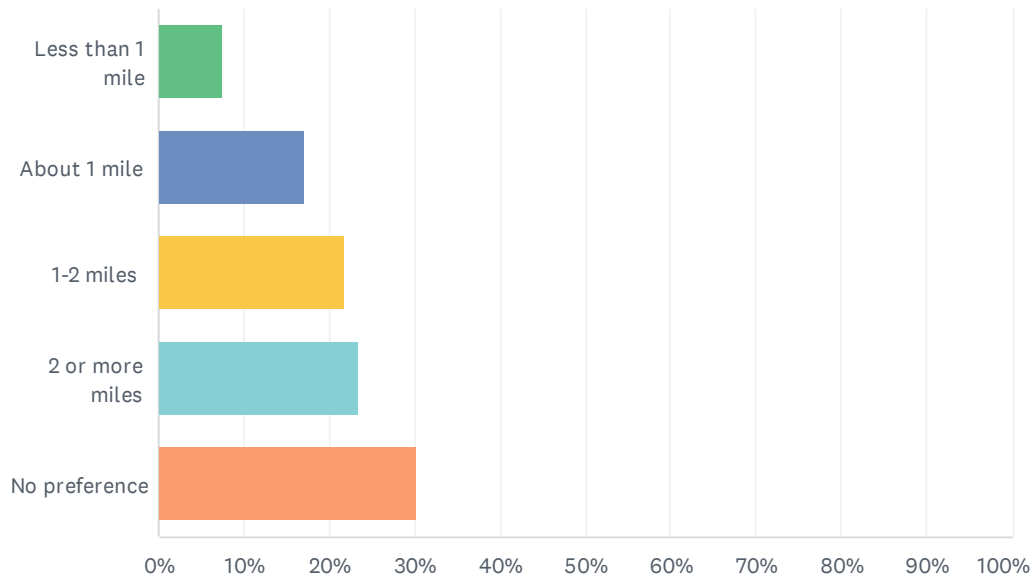
Answered: 547 Skipped: 7



ANSWER CHOICES	RESPONSES	
Less than 30 minutes	2.19%	12
30 minutes to under 1 hour	28.34%	155
1-2 hours	48.99%	268
More than 2 hours	14.63%	80
Not applicable	5.85%	32
<b>TOTAL</b>		<b>547</b>

### Q13 How much distance would you prefer to have between trailheads?

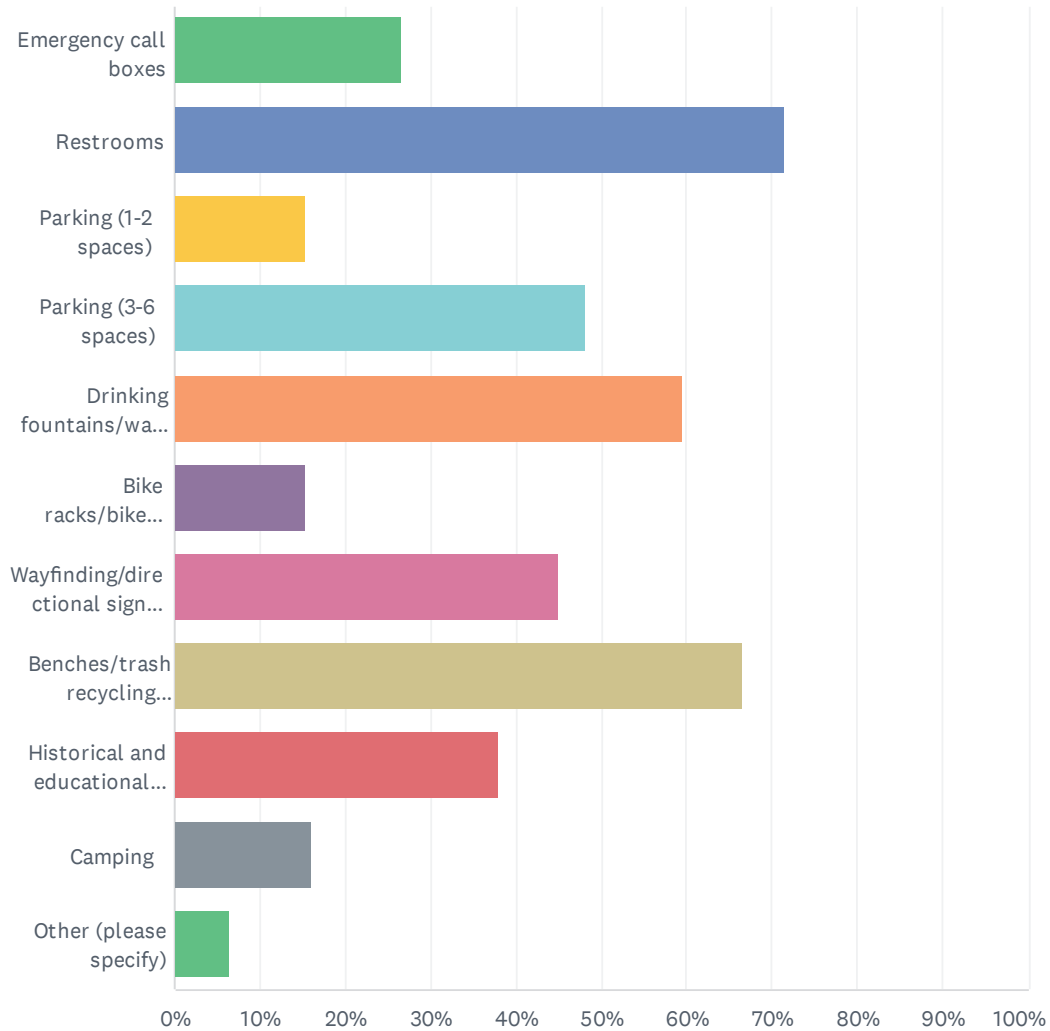
Answered: 545 Skipped: 9



ANSWER CHOICES	RESPONSES	
Less than 1 mile	7.52%	41
About 1 mile	17.06%	93
1-2 miles	21.65%	118
2 or more miles	23.49%	128
No preference	30.28%	165
<b>TOTAL</b>		<b>545</b>

# Q14 What amenities would you like to see at trailheads? Please check all that apply.

Answered: 536 Skipped: 18

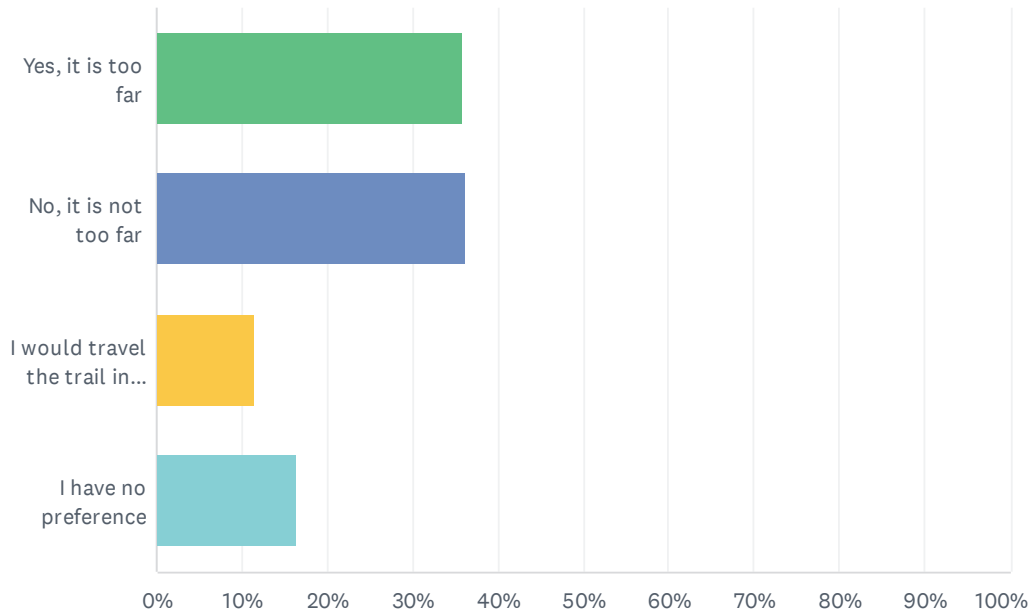


## Wabash Cannonball Trail

ANSWER CHOICES	RESPONSES	
Emergency call boxes	26.68%	143
Restrooms	71.46%	383
Parking (1-2 spaces)	15.30%	82
Parking (3-6 spaces)	48.13%	258
Drinking fountains/water bottle refill stations	59.51%	319
Bike racks/bike storage	15.30%	82
Wayfinding/directional signage	44.96%	241
Benches/trash recycling receptacles	66.42%	356
Historical and educational plaques	37.87%	203
Camping	16.04%	86
Other (please specify)	6.34%	34
Total Respondents: 536		

Q15 There are approximately 7 miles between the CR13 Montpelier trailhead and the West Unity Wabash Park trailhead. Is this farther than you would prefer between restroom facilities or drinking fountains?

Answered: 542 Skipped: 12



ANSWER CHOICES	RESPONSES	
Yes, it is too far	35.79%	194
No, it is not too far	36.35%	197
I would travel the trail in shorter segments and would not be affected by this	11.44%	62
I have no preference	16.42%	89
<b>TOTAL</b>		<b>542</b>



## Q16 Where would you like to see trailheads?

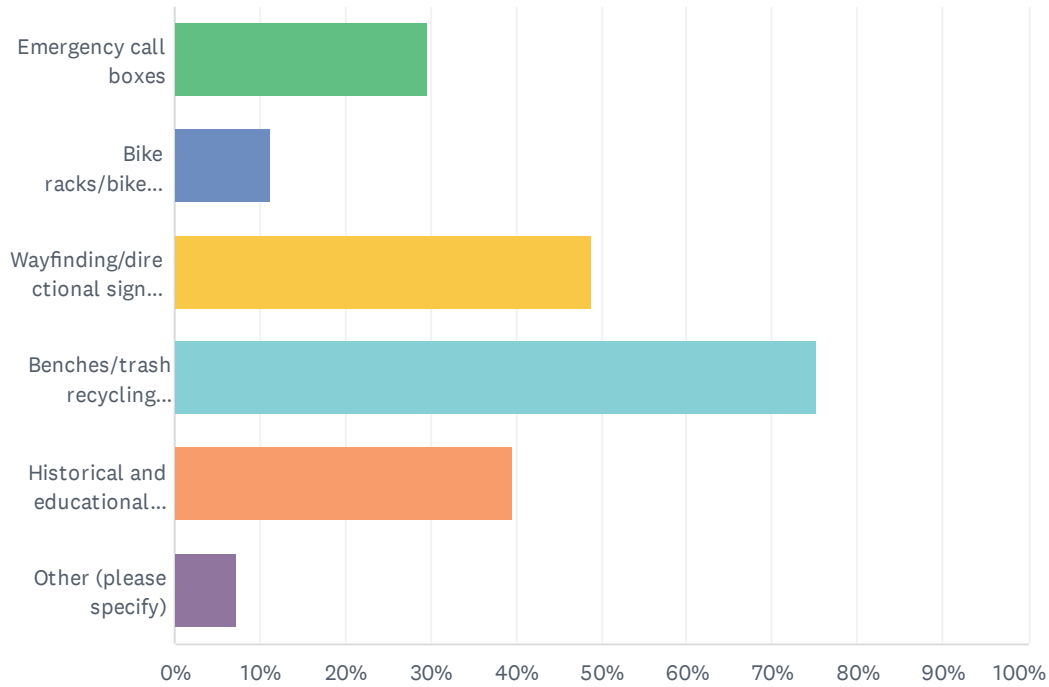
Answered: 155 Skipped: 399

### Q16 Where would you like to see trailheads?



## Q17 What amenities would you like to see along the trail? Please check all that apply.

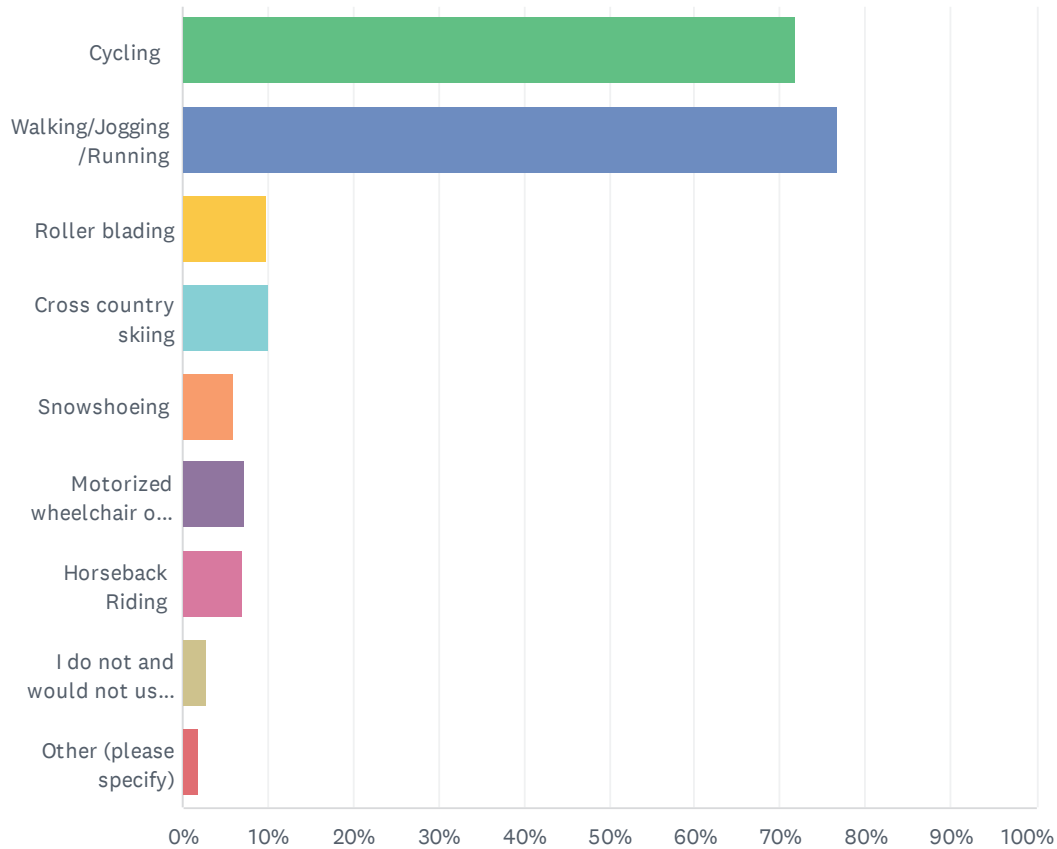
Answered: 489 Skipped: 65



ANSWER CHOICES	RESPONSES	
Emergency call boxes	29.65%	145
Bike racks/bike storage	11.25%	55
Wayfinding/directional signage	48.88%	239
Benches/trash recycling receptacles	75.26%	368
Historical and educational plaques	39.67%	194
Other (please specify)	7.16%	35
Total Respondents: 489		

## Q18 What modes of transportation do you prefer for traveling the Wabash Cannonball Trail? Please check all that apply.

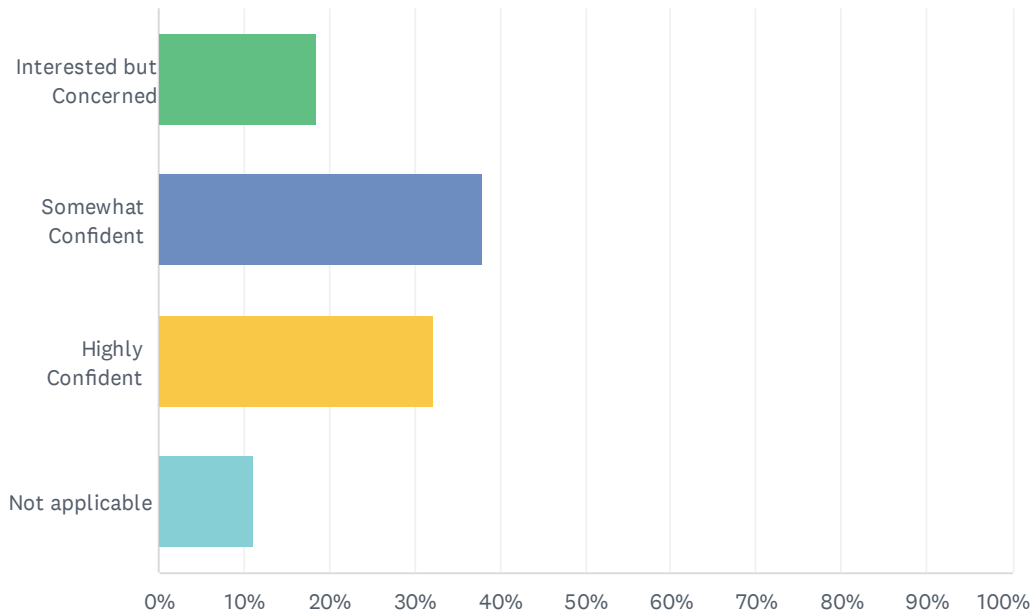
Answered: 540 Skipped: 14



ANSWER CHOICES	RESPONSES	
Cycling	71.85%	388
Walking/Jogging/Running	76.67%	414
Roller blading	9.81%	53
Cross country skiing	10.00%	54
Snowshoeing	5.93%	32
Motorized wheelchair or scooter	7.22%	39
Horseback Riding	7.04%	38
I do not and would not use the trail.	2.78%	15
Other (please specify)	1.85%	10
<b>Total Respondents: 540</b>		

Q19 What category pedestrian/bicyclist would you consider yourself? Interested but Concerned being “not comfortable with bike lanes, may bike on sidewalks even if bike lanes are provided; prefer off-street or separated bicycle facilities or quiet or traffic-calmed residential roads. May not bike at all if bicycle facilities do not meet needs for perceived comfort”. Somewhat Confident being “prefer more separated facilities, but are comfortable riding in bicycle lanes or on paved shoulders if need be”. Highly Confident being “comfortable riding with traffic; will use roads without bike lanes”.

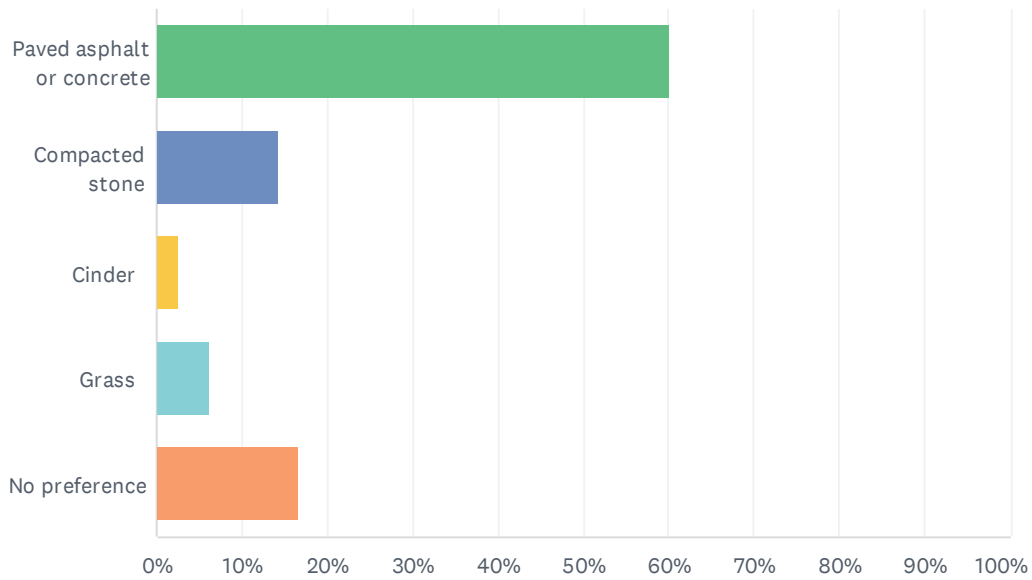
Answered: 536 Skipped: 18



ANSWER CHOICES	RESPONSES	
Interested but Concerned	18.66%	100
Somewhat Confident	37.87%	203
Highly Confident	32.28%	173
Not applicable	11.19%	60
<b>TOTAL</b>		<b>536</b>

## Q20 What type of trail surface would you prefer?

Answered: 544 Skipped: 10



ANSWER CHOICES	RESPONSES	
Paved asphalt or concrete	60.11%	327
Compacted stone	14.34%	78
Cinder	2.57%	14
Grass	6.25%	34
No preference	16.73%	91
<b>TOTAL</b>		<b>544</b>

Q21 If you have other feedback or thoughts, please comment below.  
Please leave your email address so we can contact you during the  
planning process. Additional questions can be directed to  
[wabashcannonballwmsco@gmail.com](mailto:wabashcannonballwmsco@gmail.com).

Answered: 128 Skipped: 426

# ATTACHMENT 3

## Cost Estimates



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

**Village of Montpelier**

1	CR13 Trailhead Improvements	\$372,000
2	CR13 to SR15 Underpass (0.94 mile)	\$1,275,000
3	SR15 Underpass to CR15 Bridge (1.02 mile)	\$2,120,000
4	CR15 Trailhead & Connector Trail Improvements	\$61,000
5	CR15 Bridge Improvements	\$45,000
6	CR15 Bridge to CR16 (0.96 mile) & CR16 Crossing	\$1,698,000
7	CR16 Trailhead (New)	\$98,000
7	CR16 to CR17 (1.03 mile) & CR17 Crossing	\$1,389,000

<b>Village of Montpelier Total</b>	<b>\$7,058,000</b>
Trail Subtotal	\$6,527,000
Trailhead Subtotal	\$531,000





**Engineer's Opinion of Probable Project Costs**

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**Williams County**

9	CR17 Trailhead Improvements	\$92,000
10	CR17 to Beaver Creek Bridge (0.39 mile)	\$843,000
11	Beaver Creek Bridge Improvements	\$72,000
12	Beaver Creek Bridge to CR17-75 (0.33 mile) & CR17-75 Crossing	\$671,000
13	CR17-75 Trailhead (New)	\$62,000
14	CR17-75 to US127 (2.22 mile) & US127 Crossing	\$3,653,000
15	Connector Trail from Hilltop School	\$144,000
16	US127 to (SR191) S Main St (0.29 mile) & SR191 Crossing	\$544,000



**Engineer's Opinion of Probable Project Costs**

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**Williams County (Continued)**

17	West Unity - Wabash Park Trailhead Improvements	\$129,000
18	Main St (SR191) to S Liberty St (CR20.40) Bridge (0.13 mile)	\$281,000
19	CR20.40 S Liberty St Bridge Improvements	\$45,000
20	S Liberty St (CR20.40) Bridge to CR21 (0.61 mile) & CR21 Crossing	\$983,000
21	CR21 Trailhead (New)	\$61,000
22	CR21 to CR22 (1.0 mile) & CR22 Crossing	\$1,875,000
23	CR22 to CR21N (0.73 mile) & CR21N Crossing	\$1,384,000
24	CR21N Trailhead (New)	\$60,000
25	CR21N to County Line (0.26 mile)	\$360,000
	<b>Williams County Total</b>	<b>\$11,259,000</b>
	Trail Subtotal	\$10,711,000
	Trailhead Subtotal	\$548,000



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Village of Montpelier</b>					
1	<b>CR13 Trailhead Improvements</b>	<b>\$372,000</b>			
	Asphalt parking, define parking and trail areas. Connect proposed path to existing				
<b>Trail and Parking Paving</b>		<b>SubTotal</b>	<b>\$55,220.00</b>		
203	excavation	400	cy	\$25.00	\$10,000.00
203	embankment	200	cy	\$25.00	\$5,000.00
204	subgrade compaction	795	sy	\$2.00	\$1,590.00
204	proof rolling	2	hr	\$175.00	\$350.00
304	aggregate base (8")	250	cy	\$60.00	\$15,000.00
407	non-tracking tack coat	60	gal	\$3.00	\$180.00
441	asphalt concrete surface course (1-1/4")	40	cy	\$265.00	\$10,600.00
441	asphalt concrete intermediate course (1-3/4")	50	cy	\$250.00	\$12,500.00
<b>Traffic Control</b>		<b>SubTotal</b>	<b>\$15,480.00</b>		
620	flexible delineator, post surface mounted	20	each	\$100.00	\$2,000.00
630	sign allowance	lump	sum	\$5,000.00	\$5,000.00
644	center line	0.03	mile	\$5,000.00	\$150.00
644	edge line	0.06	mile	\$4,000.00	\$240.00
644	stop line	10	ft	\$9.00	\$90.00
644	parking stall line	200	ft	\$3.00	\$600.00
644	handicap symbol marking	1	each	\$200.00	\$200.00
special	concrete parking block	8	each	\$250.00	\$2,000.00
special	bollard	4	each	\$275.00	\$1,100.00
special	bollard, hinged	2	each	\$2,050.00	\$4,100.00
<b>Restroom with Drinking Fountain</b>		<b>SubTotal</b>	<b>\$152,000.00</b>		
	building and site prep allowance	lump	sum	\$18,000.00	\$18,000.00
	pre-cast concrete facility	1	each	\$78,000.00	\$78,000.00
	facility plumbing connection hookups	lump	sum	\$4,000.00	\$4,000.00
611	sanitary manhole	2	each	\$4,500.00	\$9,000.00
611	6" sanitary sewer	200	ft	\$60.00	\$12,000.00
625	site electric and lights allowance	lump	sum	\$8,000.00	\$8,000.00
	drinking fountain with ADA pedestal fountain and pet station	1	each	\$4,100.00	\$4,100.00
638	water service	1	each	\$2,000.00	\$2,000.00
638	8" water main	200	ft	\$50.00	\$10,000.00
638	8" gate valve & box	3	each	\$2,300.00	\$6,900.00
<b>Incidentals</b>		<b>SubTotal</b>	<b>\$15,100.00</b>		
614	maintaining traffic	lump	sum	\$3,600.00	\$3,600.00
623	construction layout stakes & surveying	lump	sum	\$5,500.00	\$5,500.00
624	mobilization	lump	sum	\$6,000.00	\$6,000.00
<b>General</b>		<b>SubTotal</b>	<b>\$12,200.00</b>		
	picnic table	4	each	\$1,400.00	\$5,600.00
	bench	6	each	\$600.00	\$3,600.00
	bike repair station and concrete base	1	each	\$3,000.00	\$3,000.00
<b>construction subtotal</b>					<b>\$250,000</b>
20% contingencies					\$50,000
24% inflation (2028)					\$72,000
<b>construction total</b>					<b>\$372,000</b>



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Village of Montpelier</b>					
2	CR13 to SR15 Underpass (0.94 mile)				\$1,275,000
<b>Trail Improvements &amp; Paving</b>		<b>SubTotal</b>			<b>\$583,230.00</b>
201	clearing and grubbing	lump	sum	\$75,000.00	\$75,000.00
202	removals misc.	lump	sum	\$40,000.00	\$40,000.00
203	excavation	3,550	cy	\$25.00	\$88,750.00
203	embankment	2,650	cy	\$25.00	\$66,250.00
204	subgrade compaction	7,170	sy	\$2.00	\$14,340.00
204	excavation of subgrade	300	cy	\$22.00	\$6,600.00
204	granular embankment	300	cy	\$40.00	\$12,000.00
204	proof rolling	16	hr	\$175.00	\$2,800.00
304	aggregate base (8")	1,350	cy	\$60.00	\$81,000.00
407	non-tracking tack coat	330	gal	\$3.00	\$990.00
441	asphalt concrete surface course (1-1/4")	200	cy	\$265.00	\$53,000.00
441	asphalt concrete intermediate course (1-3/4")	270	cy	\$250.00	\$67,500.00
607	wood fence - decorative/privacy	500	ft	\$150.00	\$75,000.00
<b>Horse Trail - Single Tread</b>		<b>SubTotal</b>			<b>\$89,945.00</b>
201	clearing and grubbing	lump	sum	\$14,000.00	\$14,000.00
203	excavation	810	cy	\$25.00	\$20,250.00
203	embankment	885	cy	\$25.00	\$22,125.00
204	subgrade compaction	2,755	sy	\$2.00	\$5,510.00
204	excavation of subgrade	80	cy	\$22.00	\$1,760.00
204	granular embankment	80	cy	\$40.00	\$3,200.00
204	proof rolling	8	hr	\$175.00	\$1,400.00
411	stabilized crushed aggregate (4")	310	cy	\$70.00	\$21,700.00
<b>Erosion Control</b>		<b>SubTotal</b>			<b>\$77,625.00</b>
653	topsoil furnished and placed	650	cy	\$55.00	\$35,750.00
659	seeding and mulching	5,550	sy	\$2.00	\$11,100.00
659	repair seeding and mulching	300	sy	\$1.00	\$300.00
659	commercial fertilizer	0.85	ton	\$900.00	\$765.00
659	water	30	Mgal	\$1.00	\$30.00
670	slope erosion protection	560	sy	\$3.00	\$1,680.00
832	storm water pollution prevention plan	lump	sum	\$8,000.00	\$8,000.00
832	erosion control	lump	sum	\$20,000.00	\$20,000.00



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
2	Continued				
<b>Drainage</b>		<b>SubTotal</b>			<b>\$21,100.00</b>
602	concrete masonry	2	cy	\$2,000.00	\$4,000.00
611	8" conduit	20	ft	\$80.00	\$1,600.00
611	12", 15", 18" conduit	50	ft	\$110.00	\$5,500.00
611	catch basin	2	each	\$2,500.00	\$5,000.00
611	manhole	1	each	\$5,000.00	\$5,000.00
<b>Traffic Control</b>		<b>SubTotal</b>			<b>\$4,500.00</b>
644	center line	0.9	mile	\$5,000.00	\$4,500.00
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$80,600.00</b>
614	maintaining traffic		lump sum	\$20,600.00	\$20,600.00
623	construction layout stakes & surveying		lump sum	\$15,000.00	\$15,000.00
624	mobilization		lump sum	\$45,000.00	\$45,000.00
<b>construction subtotal</b>					<b>\$857,000</b>
20% contingencies					\$171,000
24% inflation (2028)					\$247,000
<b>construction total</b>					<b>\$1,275,000</b>



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Village of Montpelier</b>					
3	SR15 Underpass to CR15 Bridge (1.02 mile)				\$2,120,000
<b>Trail Improvements &amp; Paving</b>		<b>SubTotal</b>			<b>\$1,122,675.00</b>
201	clearing and grubbing		lump	sum	\$85,000.00
202	removals misc.		lump	sum	\$45,000.00
203	excavation	3,850	cy	\$25.00	\$96,250.00
203	embankment	2,890	cy	\$25.00	\$72,250.00
204	subgrade compaction	7,800	sy	\$2.00	\$15,600.00
204	excavation of subgrade	385	cy	\$22.00	\$8,470.00
204	granular embankment	385	cy	\$40.00	\$15,400.00
204	proof rolling	17	hr	\$175.00	\$2,975.00
304	aggregate base (8")	1,500	cy	\$60.00	\$90,000.00
407	non-tracking tack coat	360	gal	\$3.00	\$1,080.00
441	asphalt concrete surface course (1-1/4")	210	cy	\$265.00	\$55,650.00
441	asphalt concrete intermediate course (1-3/4")	300	cy	\$250.00	\$75,000.00
607	wood fence/railing	200	ft	\$100.00	\$20,000.00
special	boardwalk	600	ft	\$900.00	\$540,000.00
<b>Horse Trail - Single Tread</b>		<b>SubTotal</b>			<b>\$98,105.00</b>
201	clearing and grubbing		lump	sum	\$15,500.00
203	excavation	875	cy	\$25.00	\$21,875.00
203	embankment	965	cy	\$25.00	\$24,125.00
204	subgrade compaction	3,000	sy	\$2.00	\$6,000.00
204	excavation of subgrade	90	cy	\$22.00	\$1,980.00
204	granular embankment	90	cy	\$40.00	\$3,600.00
204	proof rolling	9	hr	\$175.00	\$1,575.00
411	stabilized crushed aggregate (4")	335	cy	\$70.00	\$23,450.00
<b>Erosion Control</b>		<b>SubTotal</b>			<b>\$85,220.00</b>
653	topsoil furnished and placed	700	cy	\$55.00	\$38,500.00
659	seeding and mulching	6,500	sy	\$2.00	\$13,000.00
659	repair seeding and mulching	300	sy	\$1.00	\$300.00
659	commercial fertilizer	1.0	ton	\$900.00	\$900.00
659	water	30	Mgal	\$1.00	\$30.00
670	slope erosion protection	650	sy	\$3.00	\$1,950.00
832	storm water pollution prevention plan		lump	sum	\$8,540.00
832	erosion control		lump	sum	\$22,000.00



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**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

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 Calculated by: HAC

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Item No.	Item	Total Quantity	Units	Unit Price	Total Price	
3	Continued					
<b>Drainage</b>		<b>SubTotal</b>			<b>\$20,000.00</b>	
602	concrete masonry	1	cy	\$2,000.00	\$2,000.00	
611	8" conduit	25	ft	\$80.00	\$2,000.00	
611	12", 15", 18" conduit	100	ft	\$110.00	\$11,000.00	
611	catch basin	2	each	\$2,500.00	\$5,000.00	
<b>Traffic Control</b>		<b>SubTotal</b>			<b>\$5,000.00</b>	
644	center line	1.0	mile	\$5,000.00	\$5,000.00	
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$94,000.00</b>	
614	maintaining traffic	lump	sum	\$14,000.00	\$14,000.00	
623	construction layout stakes & surveying	lump	sum	\$15,000.00	\$15,000.00	
624	mobilization	lump	sum	\$65,000.00	\$65,000.00	
					<b>construction subtotal</b>	<b>\$1,425,000</b>
					20% contingencies	\$285,000
					24% inflation (2028)	\$410,000
					<b>construction total</b>	<b>\$2,120,000</b>



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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Village of Montpelier</b>					
4	<b>CR15 Trailhead &amp; Connector Trail Improvements</b>	<b>\$61,000</b>			
	Define parking, keep clear access for emergency, and add bollards to access point				
<b>Parking &amp; Connector Trail - Asphalt Surface</b>		<b>SubTotal</b>	<b>\$11,790.00</b>		
407	tack coat - parking	15	gal	\$3.00	\$45.00
407	tack coat - trail	40	sy	\$3.00	\$120.00
441	asphalt concrete surface course (1-1/2") - parking	7	cy	\$265.00	\$1,855.00
441	asphalt concrete surface course (1-1/2") - trail	18	cy	\$265.00	\$4,770.00
607	wood fence/railing	50	ft	\$100.00	\$5,000.00
<b>Traffic Control</b>		<b>SubTotal</b>	<b>\$9,410.00</b>		
630	sign allowance	lump	sum	\$6,000.00	\$6,000.00
644	center line	0.07	mile	\$5,000.00	\$350.00
644	stop line	10	ft	\$9.00	\$90.00
644	parking stall line	40	ft	\$3.00	\$120.00
special	concrete parking block	1	each	\$250.00	\$250.00
special	bollard	2	each	\$275.00	\$550.00
special	bollard, hinged	1	each	\$2,050.00	\$2,050.00
<b>Incidentals</b>		<b>SubTotal</b>	<b>\$15,600.00</b>		
614	maintaining traffic	lump	sum	\$5,600.00	\$5,600.00
623	construction layout stakes & surveying	lump	sum	\$4,500.00	\$4,500.00
624	mobilization	lump	sum	\$5,500.00	\$5,500.00
<b>General</b>		<b>SubTotal</b>	<b>\$4,200.00</b>		
	bench	2	each	\$600.00	\$1,200.00
	bike repair station and concrete base	1	each	\$3,000.00	\$3,000.00
<b>construction subtotal</b>					<b>\$41,000</b>
20% contingencies					\$8,000
24% inflation (2028)					\$12,000
<b>construction total</b>					<b>\$61,000</b>





**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

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Item No.	Item	Total Quantity	Units	Unit Price	Total Price	
<b>Village of Montpelier</b>						
5	<b>CR15 Bridge Improvements</b>				<b>\$45,000</b>	
<b>Decking &amp; Structure</b>		<b>SubTotal</b>			<b>\$9,680.00</b>	
	trex/composite decking	760	sf	\$7.50	\$5,700.00	
	2x10, 2x12 treated joists	645	ft	\$4.00	\$2,580.00	
	concrete repair	8	sf	\$175.00	\$1,400.00	
<b>Steel Girder Spot Paint</b>		<b>SubTotal</b>			<b>\$590.00</b>	
	surface prep	2	sf	\$80.00	\$160.00	
	prime coat	2	sf	\$65.00	\$130.00	
	intermediate coat	2	sf	\$45.00	\$90.00	
	finish coat	2	sf	\$105.00	\$210.00	
<b>Bridge Approach Fence/Railing</b>		<b>SubTotal</b>			<b>\$10,000.00</b>	
607	wood fence	100	ft	\$100.00	\$10,000.00	
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$9,730.00</b>	
614	maintaining traffic		lump sum	\$4,130.00	\$4,130.00	
624	mobilization		lump sum	\$5,600.00	\$5,600.00	
					<b>construction subtotal</b>	<b>\$30,000</b>
					20% contingencies	\$6,000
					24% inflation (2028)	\$9,000
					<b>construction total</b>	<b>\$45,000</b>



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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Village of Montpelier</b>					
6	CR15 Bridge to CR16 (0.96 mile)				<b>\$1,698,000</b>
<b>Trail Improvements &amp; Paving</b>		<b>SubTotal</b>			<b>\$883,325.00</b>
201	clearing and grubbing		lump	sum	\$73,000.00
202	removals misc.		lump	sum	\$41,000.00
203	excavation	3,630	cy	\$25.00	\$90,750.00
203	embankment	2,725	cy	\$25.00	\$68,125.00
204	subgrade compaction	7,355	sy	\$2.00	\$14,710.00
204	excavation of subgrade	360	cy	\$22.00	\$7,920.00
204	granular embankment	360	cy	\$40.00	\$14,400.00
204	proof rolling	16	hr	\$175.00	\$2,800.00
304	aggregate base (8")	1,385	cy	\$60.00	\$83,100.00
407	non-tracking tack coat	340	gal	\$3.00	\$1,020.00
441	asphalt concrete surface course (1-1/4")	200	cy	\$265.00	\$53,000.00
441	asphalt concrete intermediate course (1-3/4")	280	cy	\$250.00	\$70,000.00
607	wood fence/railing	3,570	ft	\$100.00	\$357,000.00
608	curb ramp	100	sf	\$65.00	\$6,500.00
<b>Horse Trail - Single Tread</b>		<b>SubTotal</b>			<b>\$92,355.00</b>
201	clearing and grubbing		lump	sum	\$14,600.00
203	excavation	825	cy	\$25.00	\$20,625.00
203	embankment	910	cy	\$25.00	\$22,750.00
204	subgrade compaction	2,830	sy	\$2.00	\$5,660.00
204	excavation of subgrade	85	cy	\$22.00	\$1,870.00
204	granular embankment	85	cy	\$40.00	\$3,400.00
204	proof rolling	8	hr	\$175.00	\$1,400.00
411	stabilized crushed aggregate (4")	315	cy	\$70.00	\$22,050.00
<b>Erosion Control</b>		<b>SubTotal</b>			<b>\$77,775.00</b>
653	topsoil furnished and placed	630	cy	\$55.00	\$34,650.00
659	seeding and mulching	5,685	sy	\$2.00	\$11,370.00
659	repair seeding and mulching	285	sy	\$1.00	\$285.00
659	commercial fertilizer	0.8	ton	\$900.00	\$720.00
659	water	40	Mgal	\$1.00	\$40.00
670	slope erosion protection	570	sy	\$3.00	\$1,710.00
832	storm water pollution prevention plan		lump	sum	\$8,000.00
832	erosion control		lump	sum	\$21,000.00
<b>Traffic Control</b>		<b>SubTotal</b>			<b>\$5,045.00</b>
644	stop line	5	ft	\$9.00	\$45.00
644	center line	1.0	mile	\$5,000.00	\$5,000.00



**Engineer's Opinion of Probable Project Costs**

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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
6	Continued				
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$77,700.00</b>
614	maintaining traffic	lump	sum	\$17,400.00	\$17,400.00
623	construction layout stakes & surveying	lump	sum	\$15,300.00	\$15,300.00
624	mobilization	lump	sum	\$45,000.00	\$45,000.00
<b>CR16 Crossing</b>		<b>SubTotal</b>			<b>\$4,800.00</b>
630	ground mounted support, no. 3 post	85	ft	\$12.00	\$1,020.00
630	sign post reflector	4	each	\$35.00	\$140.00
630	sign, flat sheet	45	sf	\$16.00	\$720.00
644	crosswalk line, 24"	40	ft	\$8.00	\$320.00
special	bollard	2	each	\$275.00	\$550.00
special	bollard, hinged	1	each	\$2,050.00	\$2,050.00
<b>construction subtotal</b>					<b>\$1,141,000</b>
20% contingencies					\$228,000
24% inflation (2028)					\$329,000
<b>construction total</b>					<b>\$1,698,000</b>



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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Village of Montpelier</b>					
7	CR16 Trailhead (New)				\$98,000
<b>Parking - Stone</b>		<b>SubTotal</b>			<b>\$36,500.00</b>
203	excavation	50	cy	\$25.00	\$1,250.00
203	embankment	20	cy	\$25.00	\$500.00
204	subgrade compaction	170	sy	\$2.00	\$340.00
304	aggregate base (8")	51	cy	\$60.00	\$3,060.00
602	concrete masonry	4	cy	\$2,000.00	\$8,000.00
611	36" conduit, type B	80	ft	\$250.00	\$20,000.00
620	flexible delineator, post surface mounted	6	each	\$100.00	\$600.00
630	sign allowance		lump sum	\$2,000.00	\$2,000.00
special	concrete parking block	3	each	\$250.00	\$750.00
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$14,500.00</b>
614	maintaining traffic		lump sum	\$5,500.00	\$5,500.00
623	construction layout stakes & surveying		lump sum	\$4,000.00	\$4,000.00
624	mobilization		lump sum	\$5,000.00	\$5,000.00
<b>General</b>		<b>SubTotal</b>			<b>\$15,000.00</b>
	trailhead kiosk	1	each	\$8,000.00	\$8,000.00
	picnic table	2	each	\$1,400.00	\$2,800.00
	bench	2	each	\$600.00	\$1,200.00
	bike repair station and concrete base	1	each	\$3,000.00	\$3,000.00
<b>construction subtotal</b>					<b>\$66,000</b>
20% contingencies					\$13,000
24% inflation (2028)					\$19,000
<b>construction total</b>					<b>\$98,000</b>



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Village of Montpelier</b>					
8	CR16 to CR17 (1.03 mile)				<b>\$1,389,000</b>
<b>Trail Improvements &amp; Paving</b>		<b>SubTotal</b>			<b>\$568,520.00</b>
201	clearing and grubbing		lump	sum	\$78,000.00
202	removals misc.		lump	sum	\$44,000.00
203	excavation	3,885	cy	\$25.00	\$97,125.00
203	embankment	2,915	cy	\$25.00	\$72,875.00
204	subgrade compaction	7,880	sy	\$2.00	\$15,760.00
204	excavation of subgrade	390	cy	\$22.00	\$8,580.00
204	granular embankment	390	cy	\$40.00	\$15,600.00
204	proof rolling	17	hr	\$175.00	\$2,975.00
304	aggregate base (8")	1,481	cy	\$60.00	\$88,860.00
407	non-tracking tack coat	365	gal	\$3.00	\$1,095.00
441	asphalt concrete surface course (1-1/4")	210	cy	\$265.00	\$55,650.00
441	asphalt concrete intermediate course (1-3/4")	300	cy	\$250.00	\$75,000.00
608	curb ramp	200	sf	\$65.00	\$13,000.00
<b>Horse Trail - Single Tread</b>		<b>SubTotal</b>			<b>\$99,340.00</b>
201	clearing and grubbing		lump	sum	\$15,600.00
203	excavation	894	cy	\$25.00	\$22,350.00
203	embankment	975	cy	\$25.00	\$24,375.00
204	subgrade compaction	3,030	sy	\$2.00	\$6,060.00
204	excavation of subgrade	90	cy	\$22.00	\$1,980.00
204	granular embankment	90	cy	\$40.00	\$3,600.00
204	proof rolling	9	hr	\$175.00	\$1,575.00
411	stabilized crushed aggregate (4")	340	cy	\$70.00	\$23,800.00
<b>Erosion Control</b>		<b>SubTotal</b>			<b>\$82,170.00</b>
653	topsoil furnished and placed	675	cy	\$55.00	\$37,125.00
659	seeding and mulching	6,055	sy	\$2.00	\$12,110.00
659	repair seeding and mulching	305	sy	\$1.00	\$305.00
659	commercial fertilizer	0.9	ton	\$900.00	\$765.00
659	water	35	Mgal	\$1.00	\$35.00
670	slope erosion protection	610	sy	\$3.00	\$1,830.00
832	storm water pollution prevention plan		lump	sum	\$8,300.00
832	erosion control		lump	sum	\$21,700.00
<b>Drainage</b>		<b>SubTotal</b>			<b>\$83,000.00</b>
602	concrete masonry	1	cy	\$2,000.00	\$2,000.00
611	8" conduit	200	ft	\$80.00	\$16,000.00
611	12", 15", 18" conduit	500	ft	\$110.00	\$55,000.00
611	catch basin	2	each	\$2,500.00	\$5,000.00
611	manhole	1	each	\$5,000.00	\$5,000.00
<b>Traffic Control</b>		<b>SubTotal</b>			<b>\$5,090.00</b>
644	stop line	10	ft	\$9.00	\$90.00
644	center line	1.0	mile	\$5,000.00	\$5,000.00



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

Item No.	Item	Total Quantity	Units	Unit Price	Total Price	
8	Continued					
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$90,000.00</b>	
614	maintaining traffic		lump sum	\$22,000.00	\$22,000.00	
623	construction layout stakes & surveying		lump sum	\$18,000.00	\$18,000.00	
624	mobilization		lump sum	\$50,000.00	\$50,000.00	
<b>CR17 Crossing</b>		<b>SubTotal</b>			<b>\$4,880.00</b>	
630	ground mounted support, no. 3 post	85	ft	\$12.00	\$1,020.00	
630	sign post reflector	4	each	\$35.00	\$140.00	
630	sign, flat sheet	45	sf	\$16.00	\$720.00	
644	crosswalk line, 24"	50	ft	\$8.00	\$400.00	
special	bollard	2	each	\$275.00	\$550.00	
special	bollard, hinged	1	each	\$2,050.00	\$2,050.00	
					<b>construction subtotal</b>	<b>\$933,000</b>
					20% contingencies	\$187,000
					24% inflation (2028)	\$269,000
					<b>construction total</b>	<b>\$1,389,000</b>



**Engineer's Opinion of Probable Project Costs**

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 Project Number: 24000041

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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County</b>					
9	<b>CR17 Trailhead Improvements</b>	<b>\$92,000</b>			
	Add paved handicap parking and a paved connector path				
	Add restroom with vault toilet until water & sewer is available				
<b>ADA Connector Trail and Parking</b>		<b>SubTotal</b>		<b>\$6,460.00</b>	
407	non-tracking tack coat	20	gal	\$3.00	\$60.00
441	asphalt concrete surface course (1-1/4")	10	cy	\$265.00	\$2,650.00
441	asphalt concrete intermediate course (1-3/4")	15	cy	\$250.00	\$3,750.00
<b>Traffic Control</b>		<b>SubTotal</b>		<b>\$16,660.00</b>	
630	sign allowance		lump	sum	\$6,000.00
644	center line	0.03	mile	\$5,000.00	\$150.00
644	stop line	10	ft	\$9.00	\$90.00
644	parking stall line	40	ft	\$3.00	\$120.00
644	handicap symbol marking	1	each	\$200.00	\$200.00
special	concrete parking block	1	each	\$250.00	\$250.00
special	bollard	6	each	\$275.00	\$1,650.00
special	bollard, hinged	4	each	\$2,050.00	\$8,200.00
<b>Restroom (vault)</b>		<b>SubTotal</b>		<b>\$12,000.00</b>	
	site prep		lump	sum	\$3,000.00
	prefabricated bathroom unit with vault toilet		lump	sum	\$12,000.00
<b>Incidentals</b>		<b>SubTotal</b>		<b>\$12,880.00</b>	
614	maintaining traffic		lump	sum	\$3,580.00
623	construction layout stakes & surveying		lump	sum	\$4,000.00
624	mobilization		lump	sum	\$5,300.00
<b>General</b>		<b>SubTotal</b>		<b>\$11,000.00</b>	
	picnic table	4	each	\$1,400.00	\$5,600.00
	bench	4	each	\$600.00	\$2,400.00
	bike repair station and concrete base	1	each	\$3,000.00	\$3,000.00
	<b>construction subtotal</b>				<b>\$62,000</b>
	20% contingencies				\$12,000
	24% inflation (2028)				\$18,000
	<b>construction total</b>				<b>\$92,000</b>



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County</b>					
10	CR17 to Beaver Creek Bridge (0.39 mile)	\$843,000			
<b>Trail Improvements &amp; Paving</b>		<b>SubTotal</b>	<b>\$429,045.00</b>		
201	clearing and grubbing	lump	sum	\$40,000.00	\$40,000.00
202	removals misc.	lump	sum	\$17,000.00	\$17,000.00
203	excavation	1,480	cy	\$25.00	\$37,000.00
203	embankment	1,110	cy	\$25.00	\$27,750.00
204	subgrade compaction	3,000	sy	\$2.00	\$6,000.00
204	excavation of subgrade	150	cy	\$22.00	\$3,300.00
204	granular embankment	150	cy	\$40.00	\$6,000.00
204	proof rolling	7	hr	\$175.00	\$1,225.00
304	aggregate base (8")	565	cy	\$60.00	\$33,900.00
407	non-tracking tack coat	140	gal	\$3.00	\$420.00
441	asphalt concrete surface course (1-1/4")	80	cy	\$265.00	\$21,200.00
441	asphalt concrete intermediate course (1-3/4")	115	cy	\$250.00	\$28,750.00
607	wood fence/railing	2,000	ft	\$100.00	\$200,000.00
608	curb ramp	100	sf	\$65.00	\$6,500.00
<b>Horse Trail - Single Tread</b>		<b>SubTotal</b>	<b>\$38,055.00</b>		
201	clearing and grubbing	lump	sum	\$6,000.00	\$6,000.00
203	excavation	340	cy	\$25.00	\$8,500.00
203	embankment	371	cy	\$25.00	\$9,275.00
204	subgrade compaction	1,155	sy	\$2.00	\$2,310.00
204	excavation of subgrade	35	cy	\$22.00	\$770.00
204	granular embankment	35	cy	\$40.00	\$1,400.00
204	proof rolling	4	hr	\$175.00	\$700.00
411	stabilized crushed aggregate (4")	130	cy	\$70.00	\$9,100.00
<b>Erosion Control</b>		<b>SubTotal</b>	<b>\$31,525.00</b>		
653	topsoil furnished and placed	260	cy	\$55.00	\$14,300.00
659	seeding and mulching	2,305	sy	\$2.00	\$4,610.00
659	repair seeding and mulching	115	sy	\$1.00	\$115.00
659	commercial fertilizer	0.3	ton	\$900.00	\$270.00
659	water	10	Mgal	\$1.00	\$10.00
670	slope erosion protection	240	sy	\$3.00	\$720.00
832	storm water pollution prevention plan	lump	sum	\$3,200.00	\$3,200.00
832	erosion control	lump	sum	\$8,300.00	\$8,300.00
<b>Drainage</b>		<b>SubTotal</b>	<b>\$24,600.00</b>		
602	concrete masonry	0.3	cy	\$2,000.00	\$600.00
611	8" conduit	200	ft	\$80.00	\$16,000.00
611	12", 15", 18" conduit	50	ft	\$110.00	\$5,500.00
611	catch basin	1	each	\$2,500.00	\$2,500.00





**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

Item No.	Item	Total Quantity	Units	Unit Price	Total Price
10	Continued				
<b>Traffic Control</b>		<b>SubTotal</b>			<b>\$2,045.00</b>
644	stop line	5	ft	\$9.00	\$45.00
644	center line	0.4	mile	\$5,000.00	\$2,000.00
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$41,730.00</b>
614	maintaining traffic		lump sum	\$7,730.00	\$7,730.00
623	construction layout stakes & surveying		lump sum	\$8,000.00	\$8,000.00
624	mobilization		lump sum	\$26,000.00	\$26,000.00
				<b>construction subtotal</b>	<b>\$567,000</b>
				20% contingencies	\$113,000
				24% inflation (2028)	\$163,000
				<b>construction total</b>	<b>\$843,000</b>



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Item No.	Item	Total Quantity	Units	Unit Price	Total Price	
<b>Williams County</b>						
11	<b>Beaver Creek Bridge Improvements</b>					<b>\$72,000</b>
<b>Decking &amp; Structure</b>		<b>SubTotal</b>			<b>\$29,250.00</b>	
	trex/composite decking	550	sf	\$7.50	\$4,125.00	
	timber railing	154	ft	\$100.00	\$15,400.00	
	W8, W10 galvanized beams	425	ft	\$20.00	\$8,500.00	
	concrete repair	7	sf	\$175.00	\$1,225.00	
<b>Bridge Approach Fence/Railing</b>		<b>SubTotal</b>			<b>\$10,000.00</b>	
	wood fence	100	ft	\$100.00	\$10,000.00	
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$8,750.00</b>	
614	maintaining traffic		lump	sum	\$3,250.00	
624	mobilization		lump	sum	\$5,500.00	
					<b>construction subtotal</b>	
					<b>\$48,000</b>	
					20% contingencies	
					\$10,000	
					24% inflation (2028)	
					\$14,000	
					<b>construction total</b>	
					<b>\$72,000</b>	



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Item No.	Item	Total Quantity	Units	Unit Price	Total Price	
<b>Williams County</b>						
12	Beaver Creek Bridge to CR17-75 (0.33 mile)					\$671,000
<b>Trail Improvements &amp; Paving</b>		<b>SubTotal</b>				<b>\$328,545.00</b>
201	clearing and grubbing	lump	sum	\$35,000.00	\$35,000.00	
202	removals misc.	lump	sum	\$15,000.00	\$15,000.00	
203	excavation	1260	cy	\$25.00	\$31,500.00	
203	embankment	945	cy	\$25.00	\$23,625.00	
204	subgrade compaction	2,550	sy	\$2.00	\$5,100.00	
204	excavation of subgrade	130	cy	\$22.00	\$2,860.00	
204	granular embankment	130	cy	\$40.00	\$5,200.00	
204	proof rolling	6	hr	\$175.00	\$1,050.00	
304	aggregate base (8")	480	cy	\$60.00	\$28,800.00	
407	non-tracking tack coat	120	gal	\$3.00	\$360.00	
441	asphalt concrete surface course (1-1/4")	70	cy	\$265.00	\$18,550.00	
441	asphalt concrete intermediate course (1-3/4")	100	cy	\$250.00	\$25,000.00	
607	wood fence/railing	1300	ft	\$100.00	\$130,000.00	
608	curb ramp	100	sf	\$65.00	\$6,500.00	
<b>Horse Trail - Single Tread</b>		<b>SubTotal</b>				<b>\$32,670.00</b>
201	clearing and grubbing	lump	sum	\$5,500.00	\$5,500.00	
203	excavation	290	cy	\$25.00	\$7,250.00	
203	embankment	315	cy	\$25.00	\$7,875.00	
204	subgrade compaction	980	sy	\$2.00	\$1,960.00	
204	excavation of subgrade	30	cy	\$22.00	\$660.00	
204	granular embankment	30	cy	\$40.00	\$1,200.00	
204	proof rolling	3	hr	\$175.00	\$525.00	
411	stabilized crushed aggregate (4")	110	cy	\$70.00	\$7,700.00	
<b>Erosion Control</b>		<b>SubTotal</b>				<b>\$26,840.00</b>
653	topsoil furnished and placed	220	cy	\$55.00	\$12,100.00	
659	seeding and mulching	1,980	sy	\$2.00	\$3,960.00	
659	repair seeding and mulching	100	sy	\$1.00	\$100.00	
659	commercial fertilizer	0.3	ton	\$900.00	\$270.00	
659	water	10	Mgal	\$1.00	\$10.00	
670	slope erosion protection	200	sy	\$3.00	\$600.00	
832	storm water pollution prevention plan	lump	sum	\$2,700.00	\$2,700.00	
832	erosion control	lump	sum	\$7,100.00	\$7,100.00	
<b>Drainage</b>		<b>SubTotal</b>				<b>\$24,600.00</b>
602	concrete masonry	0.3	cy	\$2,000.00	\$600.00	
611	8" conduit	200	ft	\$80.00	\$16,000.00	
611	12", 15", 18" conduit	50	ft	\$110.00	\$5,500.00	
611	catch basin	1	each	\$2,500.00	\$2,500.00	
<b>Traffic Control</b>		<b>SubTotal</b>				<b>\$1,545.00</b>
644	stop line	5	ft	\$9.00	\$45.00	
644	center line	0.3	mile	\$5,000.00	\$1,500.00	



**Engineer's Opinion of Probable Project Costs**

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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
12	Continued				
<b>Incidentals</b>		<b>SubTotal</b>		<b>\$32,000.00</b>	
614	maintaining traffic		lump sum	\$6,000.00	\$6,000.00
623	construction layout stakes & surveying		lump sum	\$8,000.00	\$8,000.00
624	mobilization		lump sum	\$18,000.00	\$18,000.00
<b>CR17-75 Crossing</b>		<b>SubTotal</b>		<b>\$4,800.00</b>	
630	ground mounted support, no. 3 post	85	ft	\$12.00	\$1,020.00
630	sign post reflector	4	each	\$35.00	\$140.00
630	sign, flat sheet	45	sf	\$16.00	\$720.00
644	crosswalk line, 24"	40	ft	\$8.00	\$320.00
special	bollard	2	each	\$275.00	\$550.00
special	bollard, hinged	1	each	\$2,050.00	\$2,050.00
				<b>construction subtotal</b>	<b>\$451,000</b>
				20% contingencies	\$90,000
				24% inflation (2028)	\$130,000
				<b>construction total</b>	<b>\$671,000</b>



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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County</b>					
13	CR17-75 Trailhead (New)	\$62,000			
<b>Parking - Stone</b>		<b>SubTotal</b>	<b>\$11,650.00</b>		
203	excavation	55	cy	\$25.00	\$1,375.00
203	embankment	115	cy	\$25.00	\$2,875.00
204	subgrade compaction	250	sy	\$2.00	\$500.00
304	aggregate base (8")	55	cy	\$60.00	\$3,300.00
620	flexible delineator, post surface mounted	6	each	\$100.00	\$600.00
630	sign allowance	lump	sum	\$2,000.00	\$2,000.00
special	concrete parking block	4	each	\$250.00	\$1,000.00
<b>Incidentals</b>		<b>SubTotal</b>	<b>\$15,350.00</b>		
614	maintaining traffic	lump	sum	\$5,550.00	\$5,550.00
623	construction layout stakes & surveying	lump	sum	\$4,500.00	\$4,500.00
624	mobilization	lump	sum	\$5,300.00	\$5,300.00
<b>General</b>		<b>SubTotal</b>	<b>\$15,000.00</b>		
	trailhead kiosk	1	each	\$8,000.00	\$8,000.00
	picnic table	2	each	\$1,400.00	\$2,800.00
	bench	2	each	\$600.00	\$1,200.00
	bike repair station and concrete base	1	each	\$3,000.00	\$3,000.00
<b>construction subtotal</b>					<b>\$42,000</b>
20% contingencies					\$8,000
24% inflation (2028)					\$12,000
<b>construction total</b>					<b>\$62,000</b>



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County - within West Unity for eastern 0.7 mile</b>					
14	CR17-75 to US127 (2.22 mile)				<b>\$3,653,000</b>
<b>Trail Improvements &amp; Paving</b>		<b>SubTotal</b>			<b>\$1,432,620.00</b>
201	clearing and grubbing		lump	sum	\$195,000.00
202	removals misc.		lump	sum	\$98,000.00
203	excavation	8,370	cy	\$25.00	\$209,250.00
203	embankment	6,280	cy	\$25.00	\$157,000.00
204	subgrade compaction	16,955	sy	\$2.00	\$33,910.00
204	excavation of subgrade	840	cy	\$22.00	\$18,480.00
204	granular embankment	840	cy	\$40.00	\$33,600.00
204	proof rolling	36	hr	\$175.00	\$6,300.00
304	aggregate base (8")	3,190	cy	\$60.00	\$191,400.00
407	non-tracking tack coat	785	gal	\$3.00	\$2,355.00
441	asphalt concrete surface course (1-1/4")	455	cy	\$265.00	\$120,575.00
441	asphalt concrete intermediate course (1-3/4")	635	cy	\$250.00	\$158,750.00
607	wood fence - decorative/privacy	1300	ft	\$150.00	\$195,000.00
608	curb ramp	200	sf	\$65.00	\$13,000.00
<b>Horse Trail - Single Tread</b>		<b>SubTotal</b>			<b>\$212,840.00</b>
201	clearing and grubbing		lump	sum	\$33,500.00
203	excavation	1,900	cy	\$25.00	\$47,500.00
203	embankment	2,100	cy	\$25.00	\$52,500.00
204	subgrade compaction	6,520	sy	\$2.00	\$13,040.00
204	excavation of subgrade	200	cy	\$22.00	\$4,400.00
204	granular embankment	200	cy	\$40.00	\$8,000.00
204	proof rolling	18	hr	\$175.00	\$3,150.00
411	stabilized crushed aggregate (4")	725	cy	\$70.00	\$50,750.00
<b>Erosion Control</b>		<b>SubTotal</b>			<b>\$173,420.00</b>
653	topsoil furnished and placed	1450	cy	\$55.00	\$79,750.00
659	seeding and mulching	13,040	sy	\$2.00	\$26,080.00
659	repair seeding and mulching	655	sy	\$1.00	\$655.00
659	commercial fertilizer	1.75	ton	\$900.00	\$1,575.00
659	water	70	Mgal	\$1.00	\$70.00
670	slope erosion protection	130	sy	\$3.00	\$390.00
832	storm water pollution prevention plan		lump	sum	\$17,800.00
832	erosion control		lump	sum	\$47,100.00
<b>Drainage</b>		<b>SubTotal</b>			<b>\$373,000.00</b>
602	concrete masonry	2	cy	\$2,000.00	\$4,000.00
611	8" conduit	800	ft	\$80.00	\$64,000.00
611	12", 15", 18" conduit	2500	ft	\$110.00	\$275,000.00
611	catch basin	6	each	\$2,500.00	\$15,000.00
611	manhole	3	each	\$5,000.00	\$15,000.00
<b>Traffic Control</b>		<b>SubTotal</b>			<b>\$17,090.00</b>
630	field drive crossing signage	3	each	\$2,000.00	\$6,000.00
644	stop line	10	ft	\$9.00	\$90.00
644	center line	2.2	mile	\$5,000.00	\$11,000.00



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

Item No.	Item	Total Quantity	Units	Unit Price	Total Price
14	Continued				
<b>Incidentals</b>		<b>SubTotal</b>		<b>\$225,000.00</b>	
614	maintaining traffic	lump	sum	\$35,000.00	\$35,000.00
623	construction layout stakes & surveying	lump	sum	\$65,000.00	\$65,000.00
624	mobilization	lump	sum	\$125,000.00	\$125,000.00
<b>US127 Crossing</b>		<b>SubTotal</b>		<b>\$21,030.00</b>	
630	ground mounted support, no. 3 post	60	ft	\$12.00	\$720.00
630	sign post reflector	4	each	\$35.00	\$140.00
630	sign, flat sheet	35	sf	\$16.00	\$560.00
630	rectangular rapid flashing beacon (RRFB)	2	each	\$8,000.00	\$16,000.00
644	crosswalk line, 24"	70	ft	\$8.00	\$560.00
644	yield line	30	ft	\$15.00	\$450.00
special	bollard	2	each	\$275.00	\$550.00
special	bollard, hinged	1	each	\$2,050.00	\$2,050.00
				<b>construction subtotal</b>	<b>\$2,455,000</b>
				20% contingencies	\$491,000
				24% inflation (2028)	\$707,000
				<b>construction total</b>	<b>\$3,653,000</b>



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County - within West Unity</b>					
15	Connector Trail from Hilltop School (0.6 mile) Add connector trail from school parking lot with bollards at access points	\$144,000			
<b>Trail Improvements &amp; Paving</b>		<b>SubTotal</b>			<b>\$41,910.00</b>
201	clearing and grubbing	lump	sum	\$10,000.00	\$10,000.00
202	removals misc.	lump	sum	\$5,000.00	\$5,000.00
203	excavation	150	cy	\$25.00	\$3,750.00
203	embankment	100	cy	\$25.00	\$2,500.00
204	subgrade compaction	370	sy	\$2.00	\$740.00
204	excavation of subgrade	100	cy	\$22.00	\$2,200.00
204	granular embankment	100	cy	\$40.00	\$4,000.00
204	proof rolling	2	hr	\$175.00	\$350.00
304	aggregate base (8")	85	cy	\$60.00	\$5,100.00
407	non-tracking tack coat	30	gal	\$3.00	\$90.00
441	asphalt concrete surface course (1-1/4")	12	cy	\$265.00	\$3,180.00
441	asphalt concrete intermediate course (1-3/4")	20	cy	\$250.00	\$5,000.00
<b>Traffic Control</b>		<b>SubTotal</b>			<b>\$11,290.00</b>
630	sign allowance	lump	sum	\$3,000.00	\$3,000.00
644	stop line	10	ft	\$9.00	\$90.00
644	center line	0.6	mile	\$5,000.00	\$3,000.00
special	bollard	4	each	\$275.00	\$1,100.00
special	bollard, hinged	2	each	\$2,050.00	\$4,100.00
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$25,800.00</b>
614	maintaining traffic	lump	sum	\$5,000.00	\$5,000.00
623	construction layout stakes & surveying	lump	sum	\$8,000.00	\$8,000.00
624	mobilization	lump	sum	\$12,800.00	\$12,800.00
<b>General</b>		<b>SubTotal</b>			<b>\$18,000.00</b>
	trailhead kiosk	1	each	\$8,000.00	\$8,000.00
	story walk	20	each	\$500.00	\$10,000.00
<b>construction subtotal</b>					<b>\$97,000</b>
20% contingencies					\$19,000
24% inflation (2028)					\$28,000
<b>construction total</b>					<b>\$144,000</b>





**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County - within West Unity</b>					
16	US127 to SR191 (S Main St) (0.29 mile)				\$544,000
<b>Trail Improvements &amp; Paving</b>		<b>SubTotal</b>			<b>\$176,585.00</b>
201	clearing and grubbing	lump	sum	\$30,000.00	\$30,000.00
202	removals misc.	lump	sum	\$10,000.00	\$10,000.00
203	excavation	1100	cy	\$25.00	\$27,500.00
203	embankment	850	cy	\$25.00	\$21,250.00
204	subgrade compaction	2230	sy	\$2.00	\$4,460.00
204	excavation of subgrade	110	cy	\$22.00	\$2,420.00
204	granular embankment	110	cy	\$40.00	\$4,400.00
204	proof rolling	5	hr	\$175.00	\$875.00
304	aggregate base (8")	420	cy	\$60.00	\$25,200.00
407	non-tracking tack coat	110	gal	\$3.00	\$330.00
441	asphalt concrete surface course (1-1/4")	60	cy	\$265.00	\$15,900.00
441	asphalt concrete intermediate course (1-3/4")	85	cy	\$250.00	\$21,250.00
608	curb ramp	200	sf	\$65.00	\$13,000.00
<b>Horse Trail - Single Tread</b>		<b>SubTotal</b>			<b>\$27,960.00</b>
201	clearing and grubbing	lump	sum	\$4,400.00	\$4,400.00
203	excavation	250	cy	\$25.00	\$6,250.00
203	embankment	275	cy	\$25.00	\$6,875.00
204	subgrade compaction	855	sy	\$2.00	\$1,710.00
204	excavation of subgrade	25	cy	\$22.00	\$550.00
204	granular embankment	25	cy	\$40.00	\$1,000.00
204	proof rolling	3	hr	\$175.00	\$525.00
411	stabilized crushed aggregate (4")	95	cy	\$70.00	\$6,650.00
<b>Erosion Control</b>		<b>SubTotal</b>			<b>\$26,875.00</b>
653	topsoil furnished and placed	200	cy	\$55.00	\$11,000.00
659	seeding and mulching	1750	sy	\$2.00	\$3,500.00
659	repair seeding and mulching	100	sy	\$1.00	\$100.00
659	commercial fertilizer	0.25	ton	\$900.00	\$225.00
659	water	10	Mgal	\$1.00	\$10.00
670	slope erosion protection	180	sy	\$3.00	\$540.00
832	storm water pollution prevention plan	lump	sum	\$3,000.00	\$3,000.00
832	erosion control	lump	sum	\$8,500.00	\$8,500.00
<b>Drainage</b>		<b>SubTotal</b>			<b>\$83,000.00</b>
611	8" conduit	100	ft	\$80.00	\$8,000.00
611	12", 15", 18" conduit	500	ft	\$110.00	\$55,000.00
611	catch basin	4	each	\$2,500.00	\$10,000.00
611	manhole	2	each	\$5,000.00	\$10,000.00
<b>Traffic Control</b>		<b>SubTotal</b>			<b>\$1,590.00</b>
644	stop line	10	ft	\$9.00	\$90.00
644	center line	0.3	mile	\$5,000.00	\$1,500.00



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

Item No.	Item	Total Quantity	Units	Unit Price	Total Price
16	Continued				
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$28,900.00</b>
614	maintaining traffic		lump sum	\$8,000.00	\$8,000.00
623	construction layout stakes & surveying		lump sum	\$5,400.00	\$5,400.00
624	mobilization		lump sum	\$15,500.00	\$15,500.00
<b>SR191 Crossing</b>		<b>SubTotal</b>			<b>\$21,090.00</b>
630	ground mounted support, no. 3 post	70	ft	\$12.00	\$840.00
630	sign post reflector	4	each	\$35.00	\$140.00
630	sign, flat sheet	40	sf	\$16.00	\$640.00
630	rectangular rapid flashing beacon (RRFB)	2	each	\$8,000.00	\$16,000.00
644	crosswalk line, 24"	60	ft	\$8.00	\$480.00
644	yield line	26	ft	\$15.00	\$390.00
special	bollard	2	each	\$275.00	\$550.00
special	bollard, hinged	1	each	\$2,050.00	\$2,050.00
				<b>construction subtotal</b>	<b>\$366,000</b>
				20% contingencies	\$73,000
				24% inflation (2028)	\$105,000
				<b>construction total</b>	<b>\$544,000</b>



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County - within West Unity</b>					
17	<b>West Unity - Wabash Park Trailhead Improvements</b>	<b>\$129,000</b>			
	Add designated parking and a connector trail with bollards at access points				
<b>Parking Improvements</b>		<b>SubTotal</b>	<b>\$36,740.00</b>		
203	excavation	200	cy	\$25.00	\$5,000.00
203	embankment	120	cy	\$25.00	\$3,000.00
204	subgrade compaction	460	sy	\$2.00	\$920.00
204	proof rolling	2	hr	\$175.00	\$350.00
301	asphalt concrete base (3")	40	cy	\$70.00	\$2,800.00
304	aggregate base (6")	80	cy	\$60.00	\$4,800.00
407	non-tracking tack coat	60	gal	\$3.00	\$180.00
441	asphalt concrete surface course (1-1/4")	20	cy	\$265.00	\$5,300.00
441	asphalt concrete intermediate course (1-3/4")	30	cy	\$250.00	\$7,500.00
644	parking stall line	380	ft	\$3.00	\$1,140.00
644	handicap symbol marking	2	each	\$200.00	\$400.00
special	concrete parking block	11	each	\$250.00	\$2,750.00
special	bollard	2	each	\$275.00	\$550.00
special	bollard, hinged	1	each	\$2,050.00	\$2,050.00
<b>Connector Trail</b>		<b>SubTotal</b>	<b>\$7,760.00</b>		
203	excavation	20	cy	\$25.00	\$500.00
203	embankment	30	cy	\$25.00	\$750.00
204	subgrade compaction	60	sy	\$2.00	\$120.00
204	proof rolling	1	hr	\$175.00	\$175.00
304	aggregate base (8")	15	cy	\$60.00	\$900.00
407	non-tracking tack coat	5	gal	\$3.00	\$15.00
441	asphalt concrete surface course (1-1/4")	2	cy	\$265.00	\$530.00
441	asphalt concrete intermediate course (1-3/4")	3	cy	\$250.00	\$750.00
620	flexible delineator, post surface mounted	8	each	\$100.00	\$800.00
630	sign allowance	lump	sum	\$3,000.00	\$3,000.00
644	center line	0.01	mile	\$5,000.00	\$50.00
644	edge line	0.02	mile	\$4,000.00	\$80.00
644	stop line	10	ft	\$9.00	\$90.00
<b>Drinking Fountain Addition</b>		<b>SubTotal</b>	<b>\$5,000.00</b>		
special	drinking fountain with ADA pedestal fountain and pet station	1	each	\$4,200.00	\$4,200.00
638	water service	1	each	\$800.00	\$800.00
<b>Incidentals</b>		<b>SubTotal</b>	<b>\$15,100.00</b>		
614	maintaining traffic	lump	sum	\$5,500.00	\$5,500.00
623	construction layout stakes & surveying	lump	sum	\$4,600.00	\$4,600.00
624	mobilization	lump	sum	\$5,000.00	\$5,000.00
<b>General</b>		<b>SubTotal</b>	<b>\$22,400.00</b>		
	picnic table	5	each	\$1,400.00	\$7,000.00
	bench	4	each	\$600.00	\$2,400.00
	story walk	20	each	\$500.00	\$10,000.00
	bike repair station and concrete base	1	each	\$3,000.00	\$3,000.00
				<b>construction subtotal</b>	<b>\$87,000</b>
				20% contingencies	\$17,000
				24% inflation (2028)	\$25,000
				<b>construction total</b>	<b>\$129,000</b>



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County - within West Unity</b>					
18	SR191 (S Main St) to CR20-40 (S Liberty St) Bridge (0.13 mile)	\$281,000			
<b>Trail Improvements &amp; Paving</b>		<b>SubTotal</b>		<b>\$77,715.00</b>	
201	clearing and grubbing	lump	sum	\$10,000.00	\$10,000.00
202	removals misc.	lump	sum	\$6,000.00	\$6,000.00
203	excavation	476	cy	\$25.00	\$11,900.00
203	embankment	355	cy	\$25.00	\$8,875.00
204	subgrade compaction	965	sy	\$2.00	\$1,930.00
204	excavation of subgrade	50	cy	\$22.00	\$1,100.00
204	granular embankment	50	cy	\$40.00	\$2,000.00
204	proof rolling	3	hr	\$175.00	\$525.00
304	aggregate base (8")	180	cy	\$60.00	\$10,800.00
407	non-tracking tack coat	45	gal	\$3.00	\$135.00
441	asphalt concrete surface course (1-1/4")	30	cy	\$265.00	\$7,950.00
441	asphalt concrete intermediate course (1-3/4")	40	cy	\$250.00	\$10,000.00
608	curb ramp	100	sf	\$65.00	\$6,500.00
<b>Horse Trail - Single Tread</b>		<b>SubTotal</b>		<b>\$12,920.00</b>	
201	clearing and grubbing	lump	sum	\$2,000.00	\$2,000.00
203	excavation	110	cy	\$25.00	\$2,750.00
203	embankment	120	cy	\$25.00	\$3,000.00
204	subgrade compaction	370	sy	\$2.00	\$740.00
204	excavation of subgrade	15	cy	\$22.00	\$330.00
204	granular embankment	15	cy	\$40.00	\$600.00
204	proof rolling	2	hr	\$175.00	\$350.00
411	stabilized crushed aggregate (4")	45	cy	\$70.00	\$3,150.00
<b>Erosion Control</b>		<b>SubTotal</b>		<b>\$11,020.00</b>	
653	topsoil furnished and placed	85	cy	\$55.00	\$4,675.00
659	seeding and mulching	735	sy	\$2.00	\$1,470.00
659	repair seeding and mulching	40	sy	\$1.00	\$40.00
659	commercial fertilizer	0.1	ton	\$900.00	\$90.00
659	water	5	Mgal	\$1.00	\$5.00
670	slope erosion protection	80	sy	\$3.00	\$240.00
832	storm water pollution prevention plan	lump	sum	\$2,000.00	\$2,000.00
832	erosion control	lump	sum	\$2,500.00	\$2,500.00
<b>Drainage</b>		<b>SubTotal</b>		<b>\$75,000.00</b>	
602	concrete masonry	1	cy	\$2,000.00	\$2,000.00
611	8" conduit	100	ft	\$80.00	\$8,000.00
611	12", 15", 18" conduit	500	ft	\$110.00	\$55,000.00
611	catch basin	2	each	\$2,500.00	\$5,000.00
611	manhole	1	each	\$5,000.00	\$5,000.00



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

Item No.	Item	Total Quantity	Units	Unit Price	Total Price
18	Continued				
<b>Traffic Control</b>		<b>SubTotal</b>			<b>\$545.00</b>
644	stop line	5	ft	\$9.00	\$45.00
644	center line	0.1	mile	\$5,000.00	\$500.00
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$11,800.00</b>
614	maintaining traffic		lump sum	\$3,400.00	\$3,400.00
623	construction layout stakes & surveying		lump sum	\$2,400.00	\$2,400.00
624	mobilization		lump sum	\$6,000.00	\$6,000.00
				<b>construction subtotal</b>	<b>\$189,000</b>
				20% contingencies	\$38,000
				24% inflation (2028)	\$54,000
				<b>construction total</b>	<b>\$281,000</b>



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County - within West Unity</b>					
19	<b>CR20.40 Bridge Improvements</b>	<b>\$45,000</b>			
<b>Decking &amp; Structure</b>		<b>SubTotal</b>	<b>\$11,310.00</b>		
	trex/composite decking	900	sf	\$7.50	\$6,750.00
	2x10, 2x12 treated joists	790	ft	\$4.00	\$3,160.00
	concrete repair	8	sf	\$175.00	\$1,400.00
<b>Steel Girder Spot Paint</b>		<b>SubTotal</b>	<b>\$590.00</b>		
	surface prep	2	sf	\$80.00	\$160.00
	prime coat	2	sf	\$65.00	\$130.00
	intermediate coat	2	sf	\$45.00	\$90.00
	finish coat	2	sf	\$105.00	\$210.00
<b>Bridge Approach Fence/Railing</b>		<b>SubTotal</b>	<b>\$10,000.00</b>		
	wood fence	100	ft	\$100.00	\$10,000.00
<b>Incidentals</b>		<b>SubTotal</b>	<b>\$8,100.00</b>		
614	maintaining traffic	lump	sum	\$3,100.00	\$3,100.00
624	mobilization	lump	sum	\$5,000.00	\$5,000.00
<b>construction subtotal</b>					<b>\$30,000</b>
20% contingencies					\$6,000
24% inflation (2028)					\$9,000
<b>construction total</b>					<b>\$45,000</b>



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County - within West Unity for 0.1 mile</b>					
20	CR20-40 (S Liberty St) Bridge to CR21 (0.61 mile)	\$983,000			
<b>Trail Improvements &amp; Paving</b>		<b>SubTotal</b>		<b>\$334,900.00</b>	
201	clearing and grubbing	lump	sum	\$46,000.00	\$46,000.00
202	removals misc.	lump	sum	\$26,000.00	\$26,000.00
203	excavation	2300	cy	\$25.00	\$57,500.00
203	embankment	1730	cy	\$25.00	\$43,250.00
204	subgrade compaction	4660	sy	\$2.00	\$9,320.00
204	excavation of subgrade	230	cy	\$22.00	\$5,060.00
204	granular embankment	230	cy	\$40.00	\$9,200.00
204	proof rolling	10	hr	\$175.00	\$1,750.00
304	aggregate base (8")	880	cy	\$60.00	\$52,800.00
407	non-tracking tack coat	215	gal	\$3.00	\$645.00
441	asphalt concrete surface course (1-1/4")	125	cy	\$265.00	\$33,125.00
441	asphalt concrete intermediate course (1-3/4")	175	cy	\$250.00	\$43,750.00
608	curb ramp	100	sf	\$65.00	\$6,500.00
<b>Horse Trail - Single Tread</b>		<b>SubTotal</b>		<b>\$58,700.00</b>	
201	clearing and grubbing	lump	sum	\$9,200.00	\$9,200.00
203	excavation	525	cy	\$25.00	\$13,125.00
203	embankment	580	cy	\$25.00	\$14,500.00
204	subgrade compaction	1,795	sy	\$2.00	\$3,590.00
204	excavation of subgrade	55	cy	\$22.00	\$1,210.00
204	granular embankment	55	cy	\$40.00	\$2,200.00
204	proof rolling	5	hr	\$175.00	\$875.00
411	stabilized crushed aggregate (4")	200	cy	\$70.00	\$14,000.00
<b>Erosion Control</b>		<b>SubTotal</b>		<b>\$48,910.00</b>	
653	topsoil furnished and placed	400	cy	\$55.00	\$22,000.00
659	seeding and mulching	3590	sy	\$2.00	\$7,180.00
659	repair seeding and mulching	180	sy	\$1.00	\$180.00
659	commercial fertilizer	0.5	ton	\$900.00	\$450.00
659	water	20	Mgal	\$1.00	\$20.00
670	slope erosion protection	360	sy	\$3.00	\$1,080.00
832	storm water pollution prevention plan	lump	sum	\$5,000.00	\$5,000.00
832	erosion control	lump	sum	\$13,000.00	\$13,000.00
<b>Drainage</b>		<b>SubTotal</b>		<b>\$155,500.00</b>	
602	concrete masonry	0.5	cy	\$2,000.00	\$1,000.00
611	8" conduit	400	ft	\$80.00	\$32,000.00
611	12", 15", 18" conduit	1000	ft	\$110.00	\$110,000.00
611	catch basin	3	each	\$2,500.00	\$7,500.00
611	manhole	1	each	\$5,000.00	\$5,000.00



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

Item No.	Item	Total Quantity	Units	Unit Price	Total Price
20	Continued				
<b>Traffic Control</b>		<b>SubTotal</b>			<b>\$5,090.00</b>
630	field drive crossing signage	1	each	\$2,000.00	\$2,000.00
644	stop line	10	ft	\$9.00	\$90.00
644	center line	0.6	mile	\$5,000.00	\$3,000.00
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$53,100.00</b>
614	maintaining traffic	lump	sum	\$11,000.00	\$11,000.00
623	construction layout stakes & surveying	lump	sum	\$12,100.00	\$12,100.00
624	mobilization	lump	sum	\$30,000.00	\$30,000.00
<b>CR21 Crossing</b>		<b>SubTotal</b>			<b>\$4,800.00</b>
630	ground mounted support, no. 3 post	85	ft	\$12.00	\$1,020.00
630	sign post reflector	4	each	\$35.00	\$140.00
630	sign, flat sheet	45	sf	\$16.00	\$720.00
644	crosswalk line, 24"	40	ft	\$8.00	\$320.00
special	bollard	2	each	\$275.00	\$550.00
special	bollard, hinged	1	each	\$2,050.00	\$2,050.00
<b>construction subtotal</b>					<b>\$661,000</b>
20% contingencies					\$132,000
24% inflation (2028)					\$190,000
<b>construction total</b>					<b>\$983,000</b>





**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County</b>					
21	CR21 Trailhead (New)				\$61,000
<b>Parking - Stone</b>		<b>SubTotal</b>			<b>\$11,000.00</b>
203	excavation	50	cy	\$25.00	\$1,250.00
203	embankment	120	cy	\$25.00	\$3,000.00
204	subgrade compaction	170	sy	\$2.00	\$340.00
304	aggregate base (8")	51	cy	\$60.00	\$3,060.00
620	flexible delineator, post surface mounted	6	each	\$100.00	\$600.00
630	sign allowance	lump	sum	\$2,000.00	\$2,000.00
special	concrete parking block	3	each	\$250.00	\$750.00
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$15,000.00</b>
614	maintaining traffic	lump	sum	\$5,500.00	\$5,500.00
623	construction layout stakes & surveying	lump	sum	\$4,500.00	\$4,500.00
624	mobilization	lump	sum	\$5,000.00	\$5,000.00
<b>General</b>		<b>SubTotal</b>			<b>\$15,000.00</b>
	trailhead kiosk	1	each	\$8,000.00	\$8,000.00
	picnic table	2	each	\$1,400.00	\$2,800.00
	bench	2	each	\$600.00	\$1,200.00
	bike repair station and concrete base	1	each	\$3,000.00	\$3,000.00
<b>construction subtotal</b>					<b>\$41,000</b>
20% contingencies					\$8,000
24% inflation (2028)					\$12,000
<b>construction total</b>					<b>\$61,000</b>



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**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County</b>					
22	CR21 to CR22 (1.0 mile)				<b>\$1,875,000</b>
<b>Trail Improvements &amp; Paving</b>		<b>SubTotal</b>			<b>\$750,090.00</b>
201	clearing and grubbing	lump	sum	\$80,000.00	\$80,000.00
202	removals misc.	lump	sum	\$42,000.00	\$42,000.00
203	excavation	3760	cy	\$25.00	\$94,000.00
203	embankment	2820	cy	\$25.00	\$70,500.00
204	subgrade compaction	7620	sy	\$2.00	\$15,240.00
204	excavation of subgrade	380	cy	\$22.00	\$8,360.00
204	granular embankment	380	cy	\$40.00	\$15,200.00
204	proof rolling	16	hr	\$175.00	\$2,800.00
304	aggregate base (8")	1435	cy	\$60.00	\$86,100.00
407	non-tracking tack coat	355	gal	\$3.00	\$1,065.00
441	asphalt concrete surface course (1-1/4")	205	cy	\$265.00	\$54,325.00
441	asphalt concrete intermediate course (1-3/4")	290	cy	\$250.00	\$72,500.00
607	wood fence - decorative/privacy	1300	ft	\$150.00	\$195,000.00
608	curb ramp	200	sf	\$65.00	\$13,000.00
<b>Horse Trail - Single Tread</b>		<b>SubTotal</b>			<b>\$95,815.00</b>
201	clearing and grubbing	lump	sum	\$15,000.00	\$15,000.00
203	excavation	855	cy	\$25.00	\$21,375.00
203	embankment	940	cy	\$25.00	\$23,500.00
204	subgrade compaction	2,930	sy	\$2.00	\$5,860.00
204	excavation of subgrade	90	cy	\$22.00	\$1,980.00
204	granular embankment	90	cy	\$40.00	\$3,600.00
204	proof rolling	8	hr	\$175.00	\$1,400.00
411	stabilized crushed aggregate (4")	330	cy	\$70.00	\$23,100.00
<b>Erosion Control</b>		<b>SubTotal</b>			<b>\$79,285.00</b>
653	topsoil furnished and placed	650	cy	\$55.00	\$35,750.00
659	seeding and mulching	5860	sy	\$2.00	\$11,720.00
659	repair seeding and mulching	295	sy	\$1.00	\$295.00
659	commercial fertilizer	0.8	ton	\$900.00	\$720.00
659	water	30	Mgal	\$1.00	\$30.00
670	slope erosion protection	590	sy	\$3.00	\$1,770.00
832	storm water pollution prevention plan	lump	sum	\$8,000.00	\$8,000.00
832	erosion control	lump	sum	\$21,000.00	\$21,000.00
<b>Drainage</b>		<b>SubTotal</b>			<b>\$234,000.00</b>
602	concrete masonry	0.5	cy	\$2,000.00	\$1,000.00
611	8" conduit	600	ft	\$80.00	\$48,000.00
611	12", 15", 18" conduit	1500	ft	\$110.00	\$165,000.00
611	catch basin	4	each	\$2,500.00	\$10,000.00
611	manhole	2	each	\$5,000.00	\$10,000.00



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
22	Continued				
<b>Traffic Control</b>		<b>SubTotal</b>			<b>\$9,090.00</b>
630	field drive crossing signage	2	each	\$2,000.00	\$4,000.00
644	stop line	10	ft	\$9.00	\$90.00
644	center line	1	mile	\$5,000.00	\$5,000.00
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$87,000.00</b>
614	maintaining traffic		lump sum	\$17,000.00	\$17,000.00
623	construction layout stakes & surveying		lump sum	\$20,000.00	\$20,000.00
624	mobilization		lump sum	\$50,000.00	\$50,000.00
<b>CR22 Crossing</b>		<b>SubTotal</b>			<b>\$4,720.00</b>
630	ground mounted support, no. 3 post	85	ft	\$12.00	\$1,020.00
630	sign post reflector	4	each	\$35.00	\$140.00
630	sign, flat sheet	45	sf	\$16.00	\$720.00
644	crosswalk line, 24"	30	ft	\$8.00	\$240.00
special	bollard	2	each	\$275.00	\$550.00
special	bollard, hinged	1	each	\$2,050.00	\$2,050.00
<b>construction subtotal</b>					<b>\$1,260,000</b>
20% contingencies					\$252,000
24% inflation (2028)					\$363,000
<b>construction total</b>					<b>\$1,875,000</b>



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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County</b>					
21	CR22 Trailhead (New)	\$60,000			
<b>Parking - Stone</b>		<b>SubTotal</b>	<b>\$10,500.00</b>		
203	excavation	50	cy	\$25.00	\$1,250.00
203	embankment	100	cy	\$25.00	\$2,500.00
204	subgrade compaction	170	sy	\$2.00	\$340.00
304	aggregate base (8")	51	cy	\$60.00	\$3,060.00
620	flexible delineator, post surface mounted	6	each	\$100.00	\$600.00
630	sign allowance	lump	sum	\$2,000.00	\$2,000.00
special	concrete parking block	3	each	\$250.00	\$750.00
<b>Incidentals</b>		<b>SubTotal</b>	<b>\$14,500.00</b>		
614	maintaining traffic	lump	sum	\$5,500.00	\$5,500.00
623	construction layout stakes & surveying	lump	sum	\$4,000.00	\$4,000.00
624	mobilization	lump	sum	\$5,000.00	\$5,000.00
<b>General</b>		<b>SubTotal</b>	<b>\$15,000.00</b>		
	trailhead kiosk	1	each	\$8,000.00	\$8,000.00
	picnic table	2	each	\$1,400.00	\$2,800.00
	bench	2	each	\$600.00	\$1,200.00
	bike repair station and concrete base	1	each	\$3,000.00	\$3,000.00
<b>construction subtotal</b>					<b>\$40,000</b>
20% contingencies					\$8,000
24% inflation (2028)					\$12,000
<b>construction total</b>					<b>\$60,000</b>



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**Wabash Cannonball Trail - Montpelier & Williams County**  
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Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County</b>					
23	CR22 to CR21N (0.73 mile)				<b>\$1,384,000</b>
<b>Trail Improvements &amp; Paving</b>		<b>SubTotal</b>			<b>\$416,260.00</b>
201	clearing and grubbing		lump sum	\$60,000.00	\$60,000.00
202	removals misc.		lump sum	\$35,000.00	\$35,000.00
203	excavation	2770	cy	\$25.00	\$69,250.00
203	embankment	2080	cy	\$25.00	\$52,000.00
204	subgrade compaction	5610	sy	\$2.00	\$11,220.00
204	excavation of subgrade	280	cy	\$22.00	\$6,160.00
204	granular embankment	280	cy	\$40.00	\$11,200.00
204	proof rolling	12	hr	\$175.00	\$2,100.00
304	aggregate base (8")	1055	cy	\$60.00	\$63,300.00
407	non-tracking tack coat	260	gal	\$3.00	\$780.00
441	asphalt concrete surface course (1-1/4")	150	cy	\$265.00	\$39,750.00
441	asphalt concrete intermediate course (1-3/4")	210	cy	\$250.00	\$52,500.00
608	curb ramp	200	sf	\$65.00	\$13,000.00
<b>Horse Trail - Single Tread</b>		<b>SubTotal</b>			<b>\$70,640.00</b>
201	clearing and grubbing		lump sum	\$11,200.00	\$11,200.00
203	excavation	630	cy	\$25.00	\$15,750.00
203	embankment	700	cy	\$25.00	\$17,500.00
204	subgrade compaction	2,155	sy	\$2.00	\$4,310.00
204	excavation of subgrade	65	cy	\$22.00	\$1,430.00
204	granular embankment	65	cy	\$40.00	\$2,600.00
204	proof rolling	6	hr	\$175.00	\$1,050.00
411	stabilized crushed aggregate (4")	240	cy	\$70.00	\$16,800.00
<b>Erosion Control</b>		<b>SubTotal</b>			<b>\$58,530.00</b>
653	topsoil furnished and placed	480	cy	\$55.00	\$26,400.00
659	seeding and mulching	4310	sy	\$2.00	\$8,620.00
659	repair seeding and mulching	220	sy	\$1.00	\$220.00
659	commercial fertilizer	0.6	ton	\$900.00	\$540.00
659	water	30	Mgal	\$1.00	\$30.00
670	slope erosion protection	440	sy	\$3.00	\$1,320.00
832	storm water pollution prevention plan		lump sum	\$5,900.00	\$5,900.00
832	erosion control		lump sum	\$15,500.00	\$15,500.00
<b>Drainage</b>		<b>SubTotal</b>			<b>\$316,500.00</b>
602	concrete masonry	1	cy	\$2,000.00	\$2,000.00
611	8" conduit	500	ft	\$80.00	\$40,000.00
611	12", 15", 18" conduit	2200	ft	\$110.00	\$242,000.00
611	catch basin	7	each	\$2,500.00	\$17,500.00
611	manhole	3	each	\$5,000.00	\$15,000.00



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

Item No.	Item	Total Quantity	Units	Unit Price	Total Price
23	Continued				
<b>Traffic Control</b>		<b>SubTotal</b>			<b>\$3,590.00</b>
644	stop line	10	ft	\$9.00	\$90.00
644	center line	0.7	mile	\$5,000.00	\$3,500.00
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$59,600.00</b>
614	maintaining traffic		lump sum	\$10,000.00	\$10,000.00
623	construction layout stakes & surveying		lump sum	\$14,600.00	\$14,600.00
624	mobilization		lump sum	\$35,000.00	\$35,000.00
<b>CR21N Crossing</b>		<b>SubTotal</b>			<b>\$4,880.00</b>
630	ground mounted support, no. 3 post	85	ft	\$12.00	\$1,020.00
630	sign post reflector	4	each	\$35.00	\$140.00
630	sign, flat sheet	45	sf	\$16.00	\$720.00
644	crosswalk line, 24"	50	ft	\$8.00	\$400.00
special	bollard	2	each	\$275.00	\$550.00
special	bollard, hinged	1	each	\$2,050.00	\$2,050.00
<b>construction subtotal</b>					<b>\$930,000</b>
20% contingencies					\$186,000
24% inflation (2028)					\$268,000
<b>construction total</b>					<b>\$1,384,000</b>



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County</b>					
24	CR21N Trailhead (New)				\$60,000
<b>Parking - Stone</b>		<b>SubTotal</b>			<b>\$10,500.00</b>
203	excavation	50	cy	\$25.00	\$1,250.00
203	embankment	100	cy	\$25.00	\$2,500.00
204	subgrade compaction	170	sy	\$2.00	\$340.00
304	aggregate base (8")	51	cy	\$60.00	\$3,060.00
620	flexible delineator, post surface mounted	6	each	\$100.00	\$600.00
630	sign allowance	lump	sum	\$2,000.00	\$2,000.00
special	concrete parking block	3	each	\$250.00	\$750.00
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$14,500.00</b>
614	maintaining traffic	lump	sum	\$5,500.00	\$5,500.00
623	construction layout stakes & surveying	lump	sum	\$4,000.00	\$4,000.00
624	mobilization	lump	sum	\$5,000.00	\$5,000.00
<b>General</b>		<b>SubTotal</b>			<b>\$15,000.00</b>
	trailhead kiosk	1	each	\$8,000.00	\$8,000.00
	picnic table	2	each	\$1,400.00	\$2,800.00
	bench	2	each	\$600.00	\$1,200.00
	bike repair station and concrete base	1	each	\$3,000.00	\$3,000.00
<b>construction subtotal</b>					<b>\$40,000</b>
20% contingencies					\$8,000
24% inflation (2028)					\$12,000
<b>construction total</b>					<b>\$60,000</b>



**Engineer's Opinion of Probable Project Costs**

**Wabash Cannonball Trail - Montpelier & Williams County**  
 Friends of Montpelier Parks, Village of Montpelier, Williams County  
 Project Number: 24000041

Date: 9/20/2023  
 Calculated by: HAC

Description: Improvements include improving the existing cinder Wabash Cannonball trail to become a paved and accessible 10-foot-wide asphalt path. Other improvements include crossing treatments at roadways, bridge repairs, and improvements at existing or new trailheads along the route. The Village of Montpelier owns the trail from CR13 to CR17. Williams County owns the trail from CR17 east to the county line. The Hilltop School Connector and West Unity Wabash Park are outside of the corridor and will need approvals by the schools and Village in their respective right of way. Inflation is estimated for summer of 2028 construction utilizing ODOT's inflation calculator.

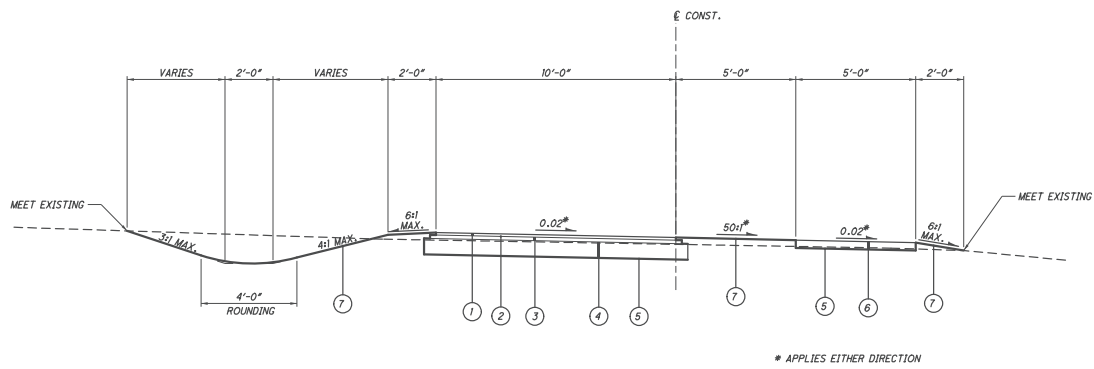
Item No.	Item	Total Quantity	Units	Unit Price	Total Price
<b>Williams County</b>					
25	CR21N to County Line (0.26 mile)				\$360,000
<b>Trail Improvements &amp; Paving</b>		<b>SubTotal</b>			<b>\$157,800.00</b>
201	clearing and grubbing	lump	sum	\$30,000.00	\$30,000.00
202	removals misc.	lump	sum	\$11,000.00	\$11,000.00
203	excavation	985	cy	\$25.00	\$24,625.00
203	embankment	740	cy	\$25.00	\$18,500.00
204	subgrade compaction	1995	sy	\$2.00	\$3,990.00
204	excavation of subgrade	100	cy	\$22.00	\$2,200.00
204	granular embankment	100	cy	\$40.00	\$4,000.00
204	proof rolling	5	hr	\$175.00	\$875.00
304	aggregate base (8")	375	cy	\$60.00	\$22,500.00
407	non-tracking tack coat	95	gal	\$3.00	\$285.00
441	asphalt concrete surface course (1-1/4")	55	cy	\$265.00	\$14,575.00
441	asphalt concrete intermediate course (1-3/4")	75	cy	\$250.00	\$18,750.00
608	curb ramp	100	sf	\$65.00	\$6,500.00
<b>Horse Trail - Single Tread</b>		<b>SubTotal</b>			<b>\$25,440.00</b>
201	clearing and grubbing	lump	sum	\$4,000.00	\$4,000.00
203	excavation	225	cy	\$25.00	\$5,625.00
203	embankment	250	cy	\$25.00	\$6,250.00
204	subgrade compaction	770	sy	\$2.00	\$1,540.00
204	excavation of subgrade	25	cy	\$22.00	\$550.00
204	granular embankment	25	cy	\$40.00	\$1,000.00
204	proof rolling	3	hr	\$175.00	\$525.00
411	stabilized crushed aggregate (4")	85	cy	\$70.00	\$5,950.00
<b>Erosion Control</b>		<b>SubTotal</b>			<b>\$21,215.00</b>
653	topsoil furnished and placed	170	cy	\$55.00	\$9,350.00
659	seeding and mulching	1535	sy	\$2.00	\$3,070.00
659	repair seeding and mulching	80	sy	\$1.00	\$80.00
659	commercial fertilizer	0.25	ton	\$900.00	\$225.00
659	water	10	Mgal	\$1.00	\$10.00
670	slope erosion protection	160	sy	\$3.00	\$480.00
832	storm water pollution prevention plan	lump	sum	\$2,500.00	\$2,500.00
832	erosion control	lump	sum	\$5,500.00	\$5,500.00
<b>Drainage</b>		<b>SubTotal</b>			<b>\$16,000.00</b>
611	8" conduit	200	ft	\$80.00	\$16,000.00
<b>Traffic Control</b>		<b>SubTotal</b>			<b>\$1,545.00</b>
644	stop line	5	ft	\$9.00	\$45.00
644	center line	0.3	mile	\$5,000.00	\$1,500.00
<b>Incidentals</b>		<b>SubTotal</b>			<b>\$20,000.00</b>
614	maintaining traffic	lump	sum	\$5,000.00	\$5,000.00
623	construction layout stakes & surveying	lump	sum	\$4,000.00	\$4,000.00
624	mobilization	lump	sum	\$11,000.00	\$11,000.00
<b>construction subtotal</b>					<b>\$242,000</b>
20% contingencies					\$48,000
24% inflation (2028)					\$70,000
<b>construction total</b>					<b>\$360,000</b>



# ATTACHMENT 4

## Typical Section

P:\000\_MLF\_Proj\1510\_2024\_P\Projects\2400004-Village of Montpelier - Montpelier - Wabash Cannonball Trail Preliminary Engineering Study\24004-WABASH TRAIL\_Vasign\Recovery\_Sheets\24004\_0100.dgn 9/20/2023 5:39:41 PM



**TYPICAL ASPHALT MULTI-USE PATH AND EQUESTRIAN STONE SINGLE TREAD SECTION**

**LEGEND**

- ① ITEM 441 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
- ② ITEM 407 - NON-TRACKING TACK COAT
- ③ ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
- ④ ITEM 304 - 8" AGGREGATE BASE
- ⑤ ITEM 204 - SUBGRADE COMPACTION
- ⑥ ITEM 411 - STABILIZED AGGREGATE (4')
- ⑦ ITEM 659 - SEEDING AND MULCHING

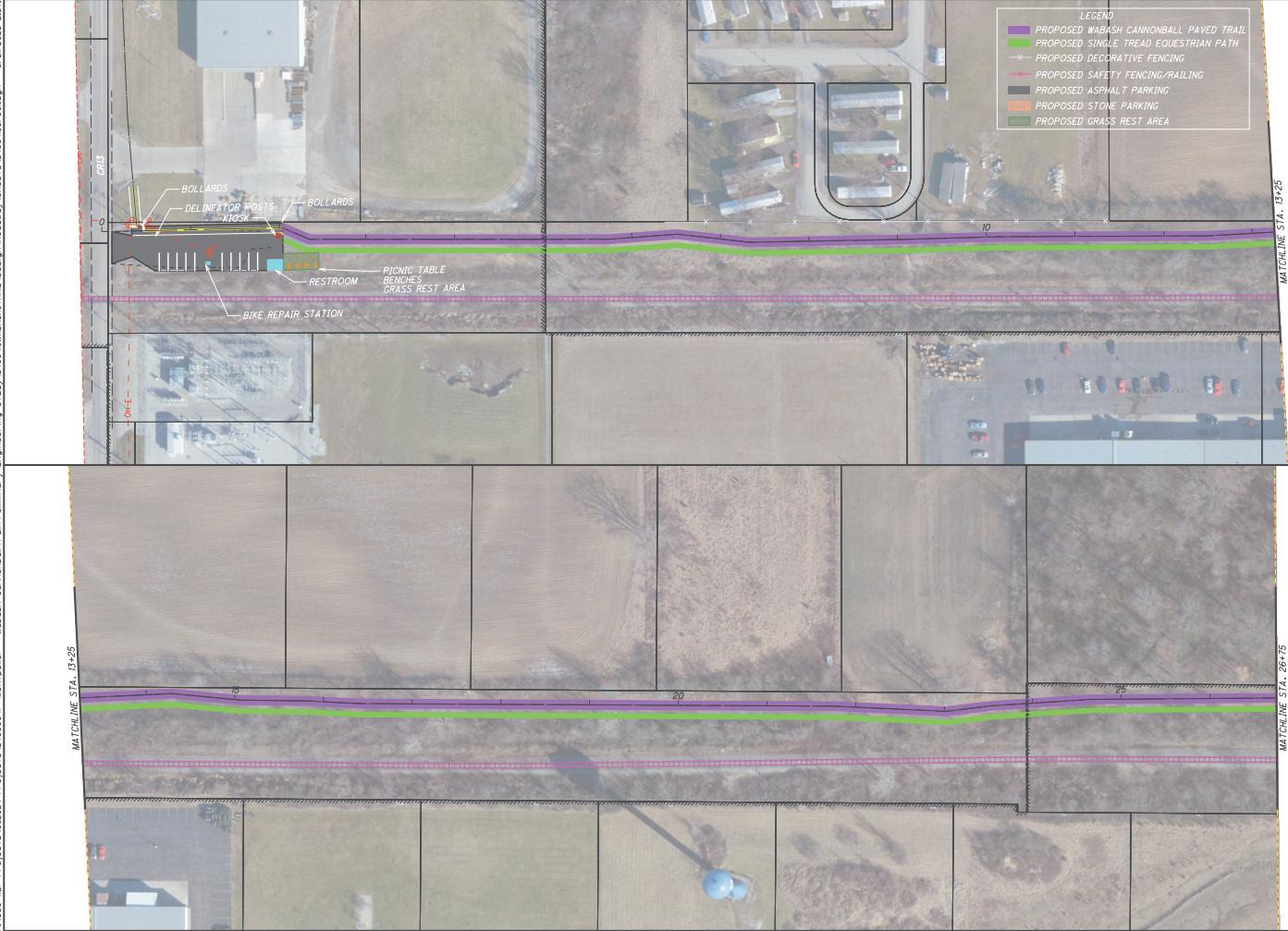
TYPICAL SECTION

VILLAGE OF MONTEPELIER  
 WABASH CANNONBALL TRAIL



# ATTACHMENT 5

## Conceptual Plan



LEGEND

- PROPOSED WABASH CANNONBALL PAVED TRAIL
- PROPOSED SINGLE TREAD EQUESTRIAN PATH
- PROPOSED DECORATIVE FENCING
- PROPOSED SAFETY FENCING/RAILING
- PROPOSED ASPHALT PARKING
- PROPOSED STONE PARKING
- PROPOSED GRASS REST AREA

MONTPELIER WILLIAMS COUNTY

WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN

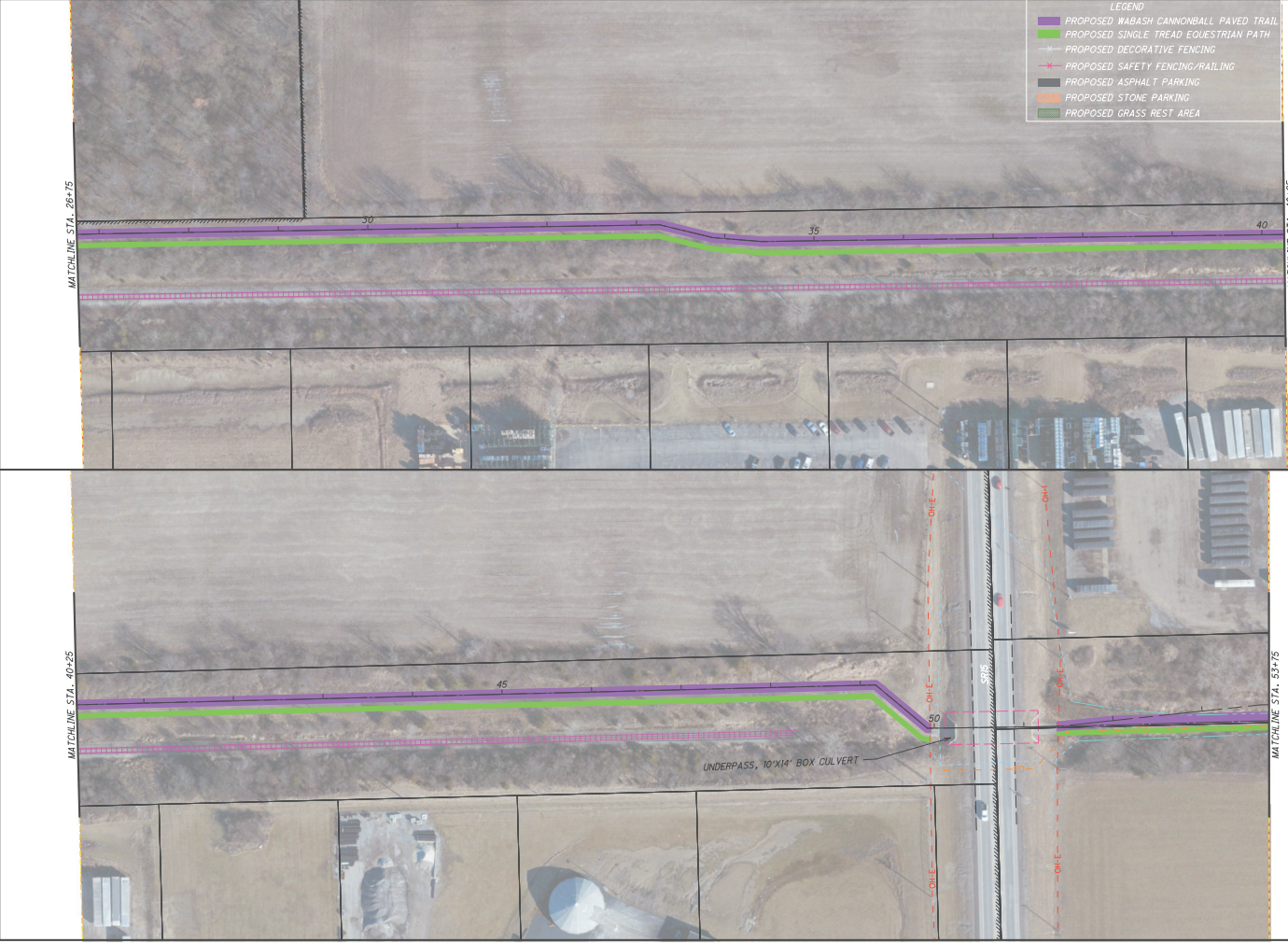
STA. 0+00 TO STA. 26+75

CALCULATED 0 50 100

CHECKED

HORIZONTAL SCALE IN FEET

1/20



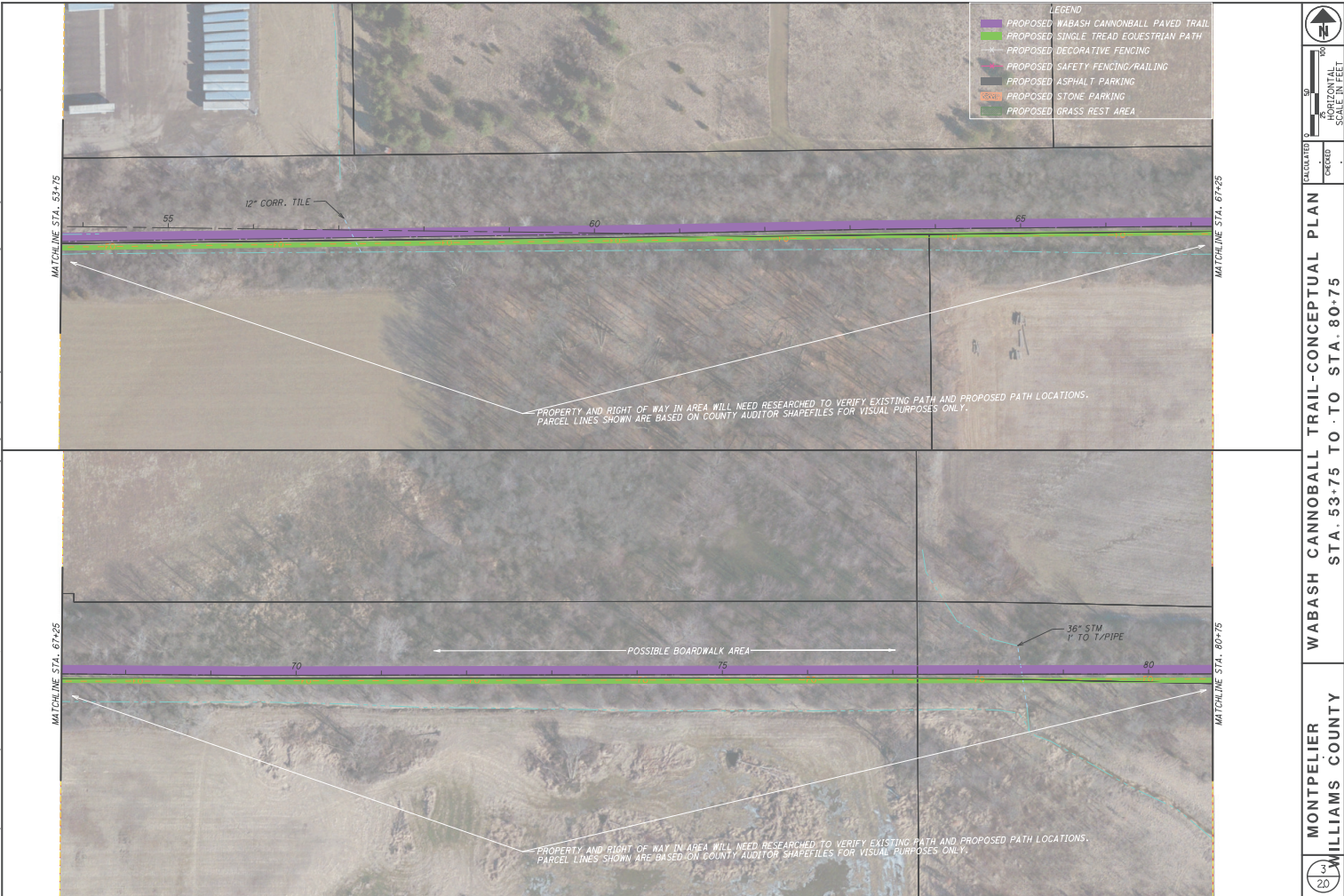
**MONTPELIER**  
**WILLIAMS COUNTY**

**WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN**  
**STA. 26+75 TO STA. 83+75**

CALCULATED  
CHECKED

HORIZONTAL  
SCALE IN FEET

2  
20



- LEGEND
- PROPOSED WABASH CANNONBALL PAVED TRAIL
  - PROPOSED SINGLE TREAD EQUESTRIAN PATH
  - PROPOSED DECORATIVE FENCING
  - PROPOSED SAFETY FENCING/RAILING
  - PROPOSED ASPHALT PARKING
  - PROPOSED STONE PARKING
  - PROPOSED GRASS REST AREA

**WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN**  
**STA. 53+75 TO STA. 80+75**  
**MONTPELIER**  
**WILLIAMS COUNTY**

CALCULATED  
 CHECKED

HORIZONTAL SCALE IN FEET



LEGEND

- PROPOSED WABASH CANNONBALL PAVED TRAIL
- PROPOSED SINGLE TREAD EQUESTRIAN PATH
- PROPOSED DECORATIVE FENCING
- PROPOSED SAFETY FENCING/RAILING
- PROPOSED ASPHALT PARKING
- PROPOSED STONE PARKING
- PROPOSED GRASS REST AREA

CALCULATED  
CHECKED

0 30 60 90  
HORIZONTAL  
SCALE IN FEET

WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN  
STA. 80+75 TO STA. 107+75

MONTPELIER  
WILLIAMS COUNTY



**MONTEPELIER**  
**WILLIAMS COUNTY**

**WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN**  
STA. 107+75 TO STA. 134+75

CALCULATED  
CHECKED

HORIZONTAL  
SCALE IN FEET

0 5 10 20





**6**  
**20**

**MONTPELIER**  
**WILLIAMS COUNTY**

**WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN**  
**STA. 134+75 TO STA. 161+75**

CALCULATED  
CHECKED

HORIZONTAL  
SCALE IN FEET



LEGEND

- PROPOSED WABASH CANNONBALL PAVED TRAIL
- PROPOSED SINGLE TREAD EQUESTRIAN PATH
- - - PROPOSED DECORATIVE FENCING
- - - PROPOSED SAFETY FENCING/RAILING
- PROPOSED ASPHALT PARKING
- PROPOSED STONE PARKING
- PROPOSED GRASS REST AREA

CALCULATED  
CHECKED

HORIZONTAL SCALE IN FEET

**WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN**  
STA. 161+75 TO STA. 188+75

**MONTPELIER**  
**WILLIAMS COUNTY**

PROPERTY AND RIGHT OF WAY IN AREA WILL NEED RESEARCHED TO VERIFY EXISTING PATH AND PROPOSED PATH LOCATIONS.  
PARCEL LINES SHOWN ARE BASED ON COUNTY AUDITOR SHAPEFILES FOR VISUAL PURPOSES ONLY.



**MONTEPELIER**  
**WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN**  
**WILLIAMS COUNTY**  
STA. 188+75 TO STA. 215+75

8  
20

CALCULATED

CHECKED

HORIZONTAL SCALE IN FEET



**MONTEPELIER**  
**WILLIAMS COUNTY**

**WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN**  
**STA. 215+75 TO STA. 242+75**

CALCULATED  
CHECKED

HORIZONTAL SCALE IN FEET

9/20



- LEGEND
- PROPOSED WABASH CANNONBALL PAVED TRAIL
  - PROPOSED SINGLE TREAD EQUESTRIAN PATH
  - PROPOSED DECORATIVE FENCING
  - PROPOSED SAFETY FENCING/RAILING
  - PROPOSED ASPHALT PARKING
  - PROPOSED STONE PARKING
  - PROPOSED GRASS REST AREA

MATCHLINE STA. 242+75

MATCHLINE STA. 269+75

MATCHLINE STA. 242+75

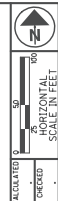
MATCHLINE STA. 269+75

DELINATOR POSTS AND BOLLARDS

KIOSK

BIKE REPAIR STATION

PICNIC TABLE BENCHES GRASS REST AREA



CALCULATED

CHECKED

HORIZONTAL SCALE IN FEET

**WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN**  
 STA. 242+75 TO STA. 269+75

**MONTPELIER**  
**WILLIAMS COUNTY**



- LEGEND
- PROPOSED WABASH CANNONBALL PAVED TRAIL
  - PROPOSED SINGLE TREAD EQUESTRIAN PATH
  - PROPOSED DECORATIVE FENCING
  - PROPOSED SAFETY FENCING/RAILING
  - PROPOSED ASPHALT PARKING
  - PROPOSED STONE PARKING
  - PROPOSED GRASS REST AREA

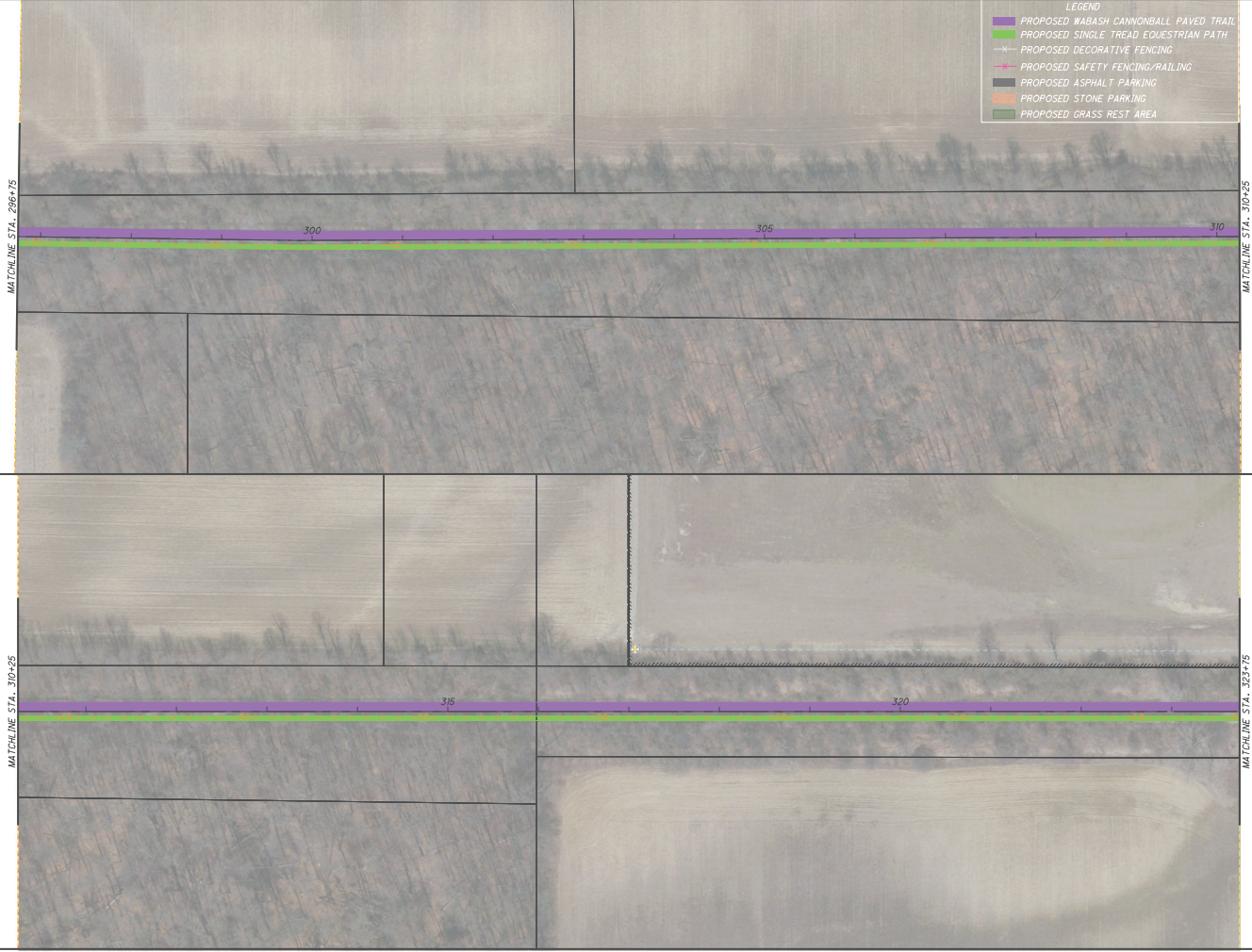
CALCULATED  
CHECKED

HORIZONTAL SCALE IN FEET

**WABASH CANNONBALL TRAIL - CONCEPTUAL PLAN**  
STA. 269+75 TO STA. 296+75

**MONTPELIER**  
**WILLIAMS COUNTY**

1/20



**MONTPELIER**  
**WILLIAMS COUNTY**

**WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN**  
STA. 296+75 TO STA. 323+75

CALCULATED  
CHECKED

HORIZONTAL  
SCALE IN FEET

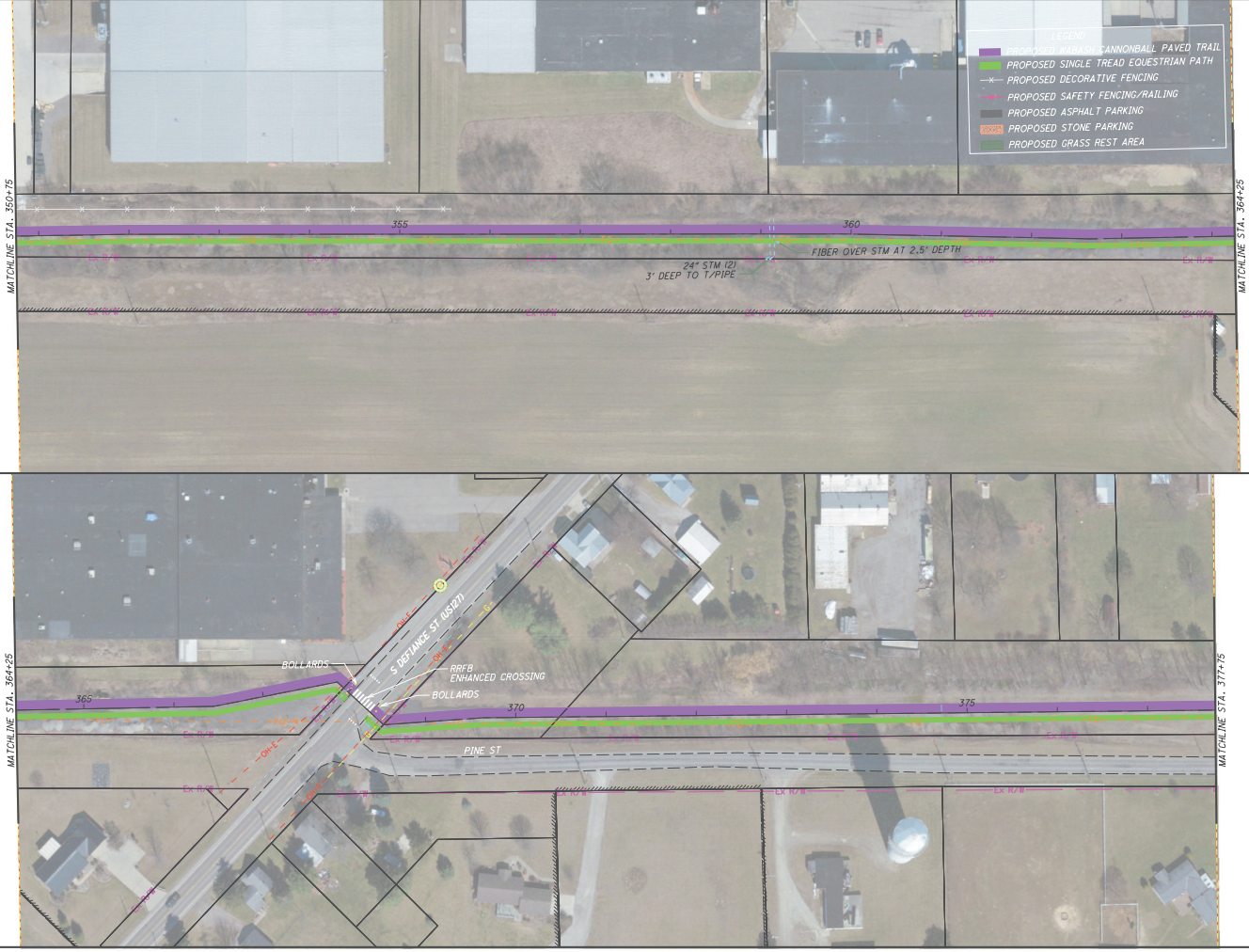
1" = 20'



WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN  
STA. 323+75 TO STA. 350+75

MONTPELIER  
WILLIAMS COUNTY





- LEGEND
- PROPOSED WABASH CANNONBALL PAVED TRAIL
  - PROPOSED SINGLE TREAD EQUESTRIAN PATH
  - PROPOSED DECORATIVE FENCING
  - PROPOSED SAFETY FENCING/RAILING
  - PROPOSED ASPHALT PARKING
  - PROPOSED STONE PARKING
  - PROPOSED GRASS REST AREA

**MONTEPELIER**  
**WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN**  
**WILLIAMS COUNTY**

STA. 350+75 TO STA. 377+75

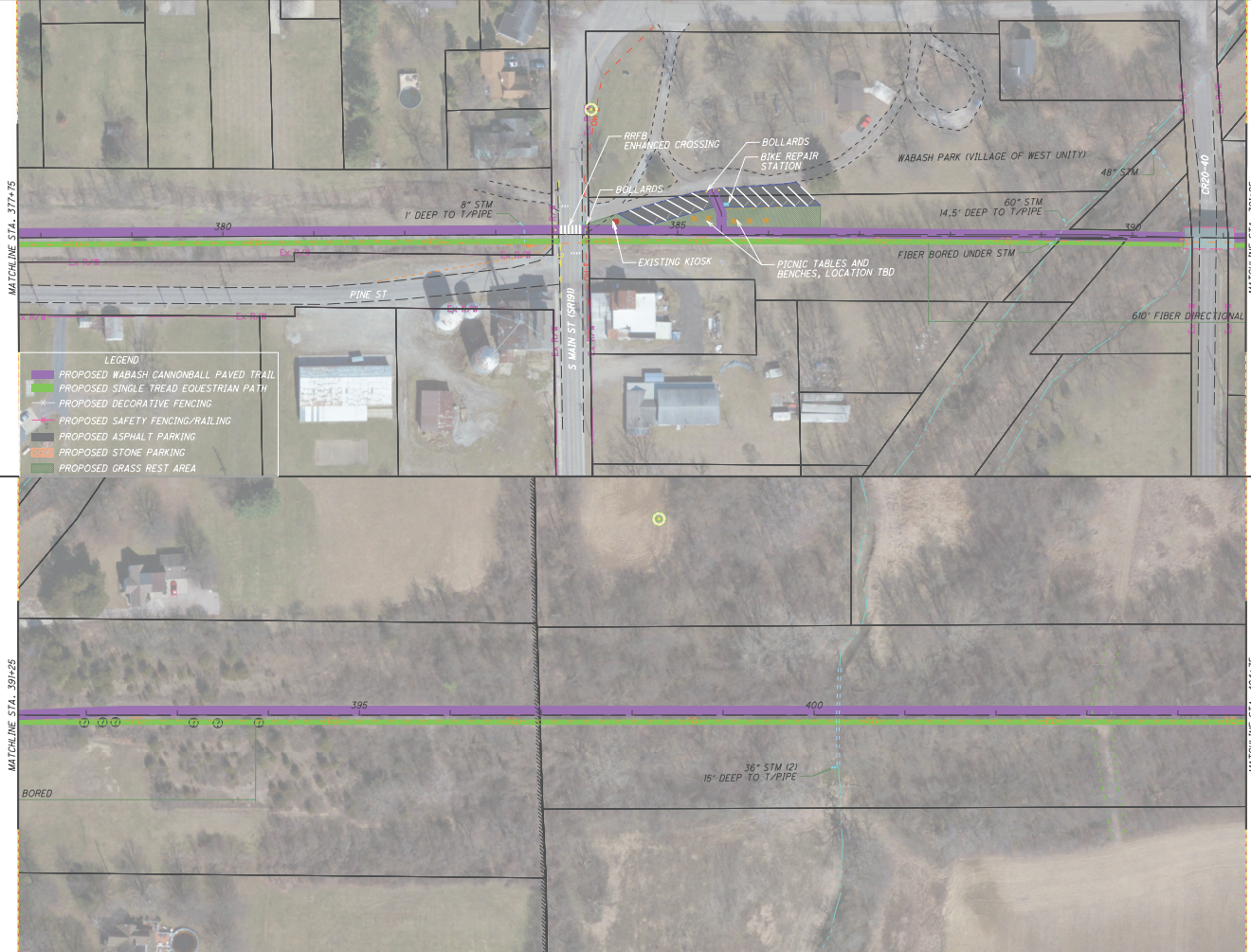
14  
20

CALCULATED

CHECKED

0 30 60

HORIZONTAL SCALE IN FEET



**MONTPELIER WILLIAMS COUNTY**

**WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN**  
 STA. 377+75 TO STA. 404+75

15  
20

CALCULATED  
CHECKED

HORIZONTAL SCALE IN FEET



**MONTPELIER**  
**WILLIAMS COUNTY**

**WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN**  
STA. 404+75 TO STA. 431+75

CALCULATED  
CHECKED

HORIZONTAL  
SCALE IN FEET

16  
20



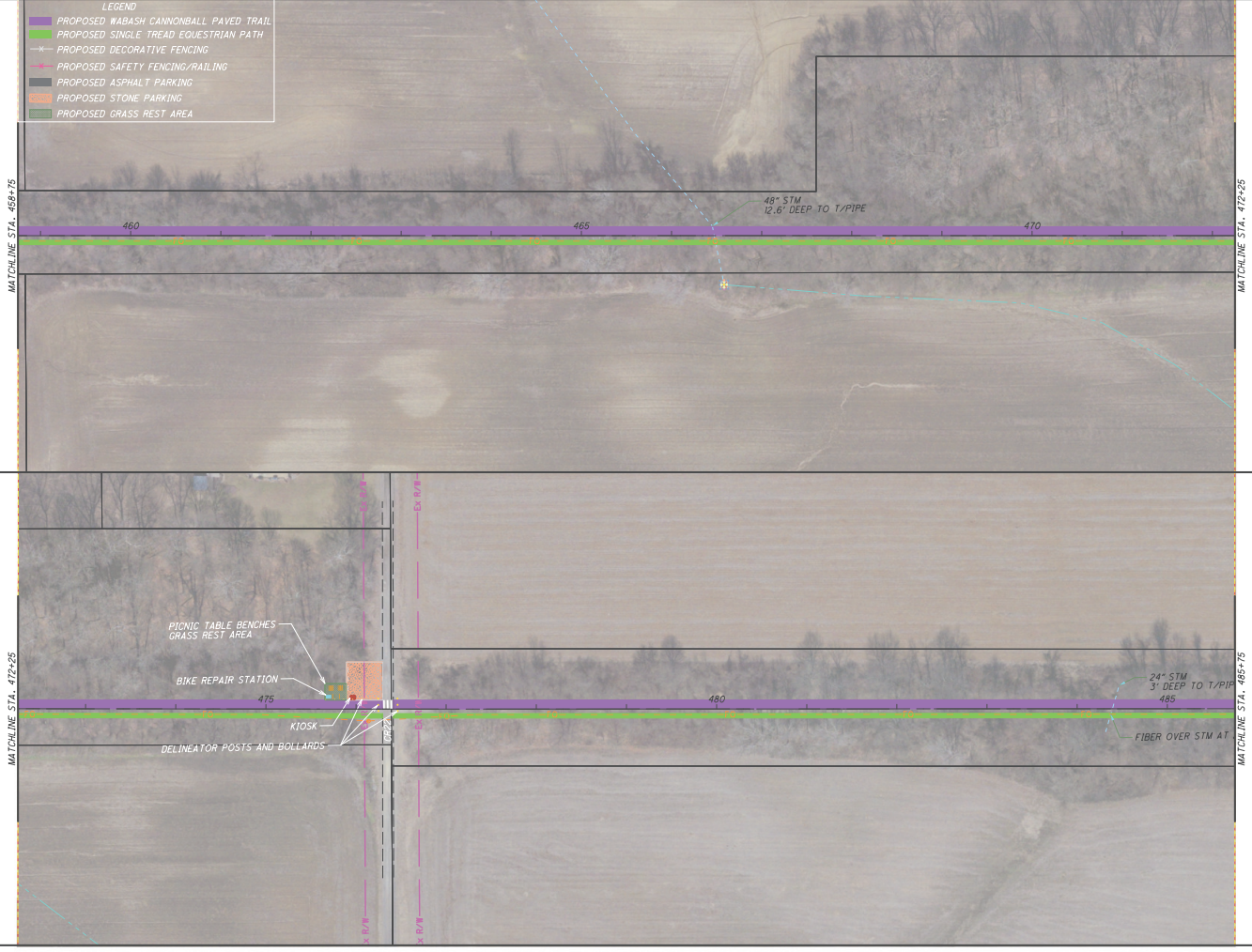
**MONTEPELIER**  
**WILLIAMS COUNTY**

**WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN**  
STA. 431+75 TO STA. 458+75

CALCULATED  
CHECKED

HORIZONTAL  
SCALE IN FEET

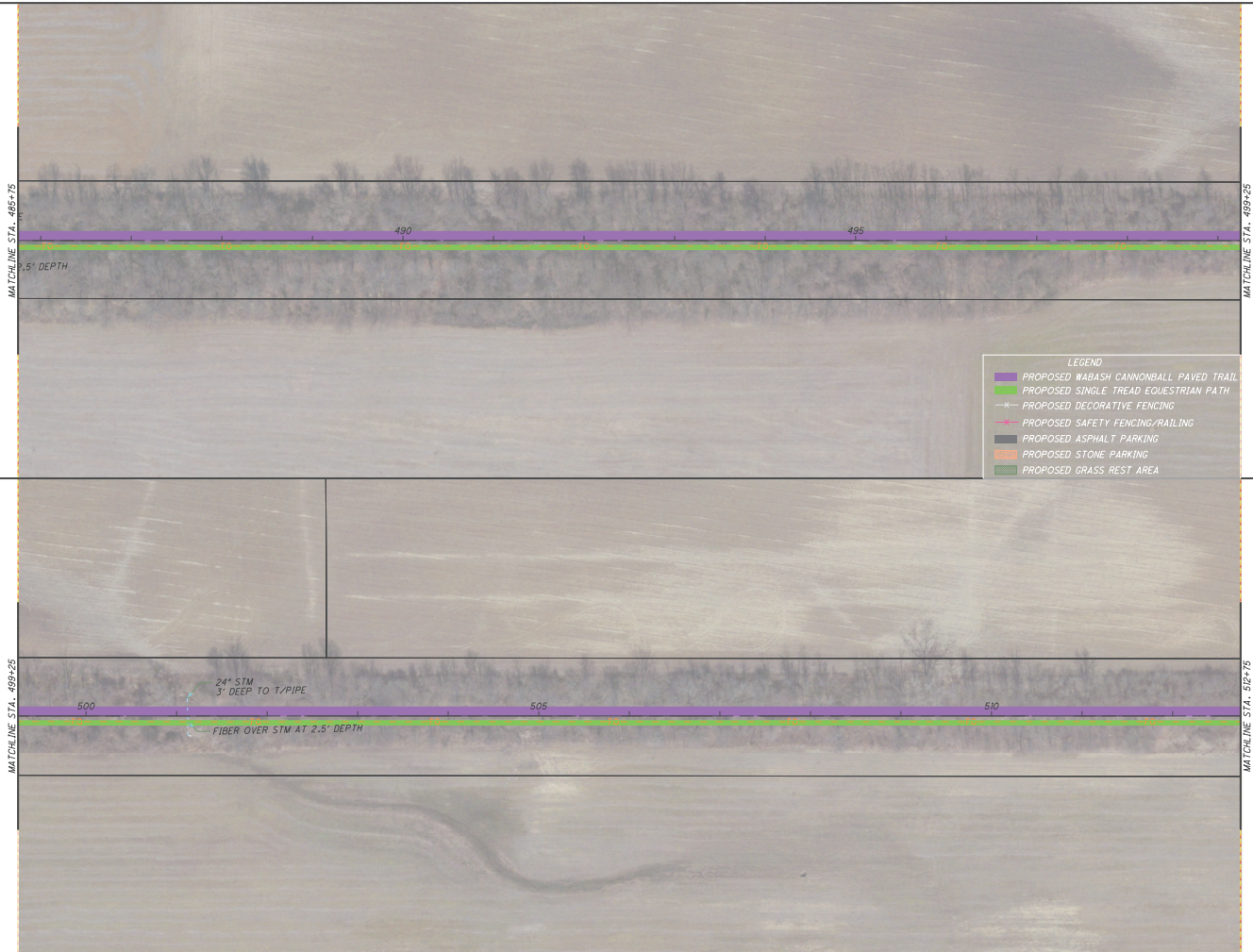
17  
20



CALCULATED  
CHECKED

**WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN**  
STA. 458+75 TO STA. 485+75

**MONTPELIER**  
**WILLIAMS COUNTY**



CALCULATED

CHECKED

HORIZONTAL SCALE IN FEET

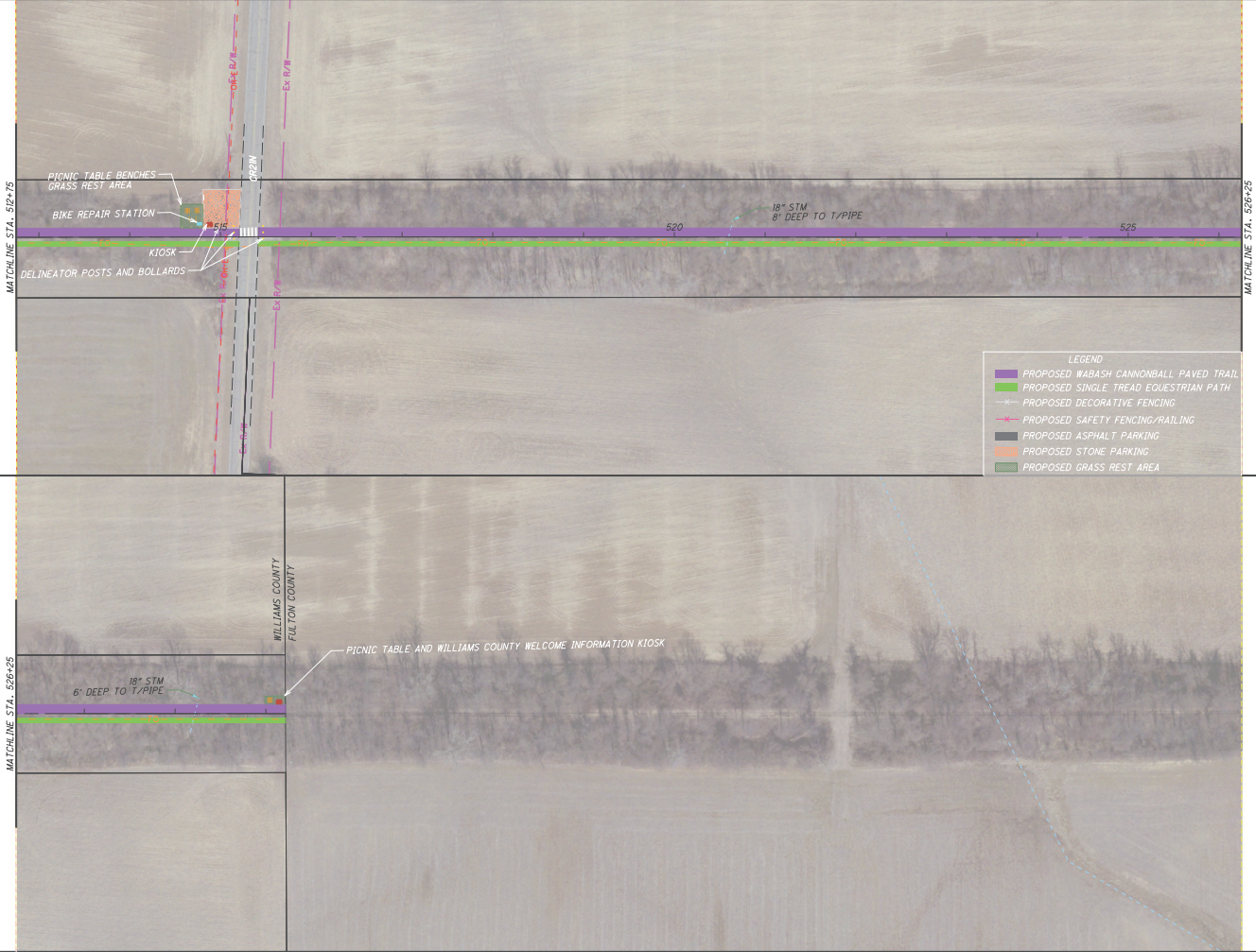
1" = 20'

19

20

MONTPELIER  
WILLIAMS COUNTY

WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN  
STA. 485+75 TO STA. 512+75



MATCHLINE STA. 512+75

MATCHLINE STA. 526+25

MATCHLINE STA. 526+25

WILLIAMS COUNTY  
FULTON COUNTY

PICNIC TABLE BENCHES  
GRASS REST AREA  
BIKE REPAIR STATION  
KIOSK  
DELINEATOR POSTS AND BOLLARDS

PICNIC TABLE AND WILLIAMS COUNTY WELCOME INFORMATION KIOSK

520

525

18" STM  
6" DEEP TO T/PIPE

**MONTPELIER**  
**WILLIAMS COUNTY**

**WABASH CANNONBALL TRAIL-CONCEPTUAL PLAN**  
STA. 512+75 TO STA. 539+75

CALCULATED  
CHECKED

HORIZONTAL  
SCALE IN FEET

20  
20