

Part D

Cost Estimates



Turkey Creek Greenway: Northern Phase

Probable Cost Estimate January 2016

Cost estimates are preliminary and subject to change. Inflation should be considered in costs when using for future planning and implementation.

	Units	Quantity	Cost Per Unit	Costs notes:
Mobilization				
Mobilization (includes mobilization for all work like grading, greenway, street crossings, drainage, etc.)	LS	1	\$12,907.58	\$12,908 2% of construction cost
			SUB-TOTAL	\$12,908
Grading & Greenway Construction				
12' asphalt new	LF	5,808	\$70.00	\$406,560 From Dutchtown Road to US Cellular Greenway
Retaining wall	SF	0	\$35.00	\$0
Fencing (controlled access)	LF	1,000	\$100.00	\$100,000
Stormwater BMPs/storm drainage	LF	5,808	\$11.36	\$65,979
			SUB-TOTAL	\$572,539
Street Crossings				
Marked crossing (Dutchtown Road and Cogdill)	EA	2	\$770.00	\$1,540
Intersection improvements for all crossings (truncated domes and ramps)	EA	8	\$3,500.00	\$28,000
			SUB-TOTAL	\$29,540
Drainage Crossings / Bridges				
Culverts in known drainages	EA	0	\$1,200.00	\$0
			SUB-TOTAL	\$0
Poco Road Trailhead				
Information/map kiosks	EA	1	\$7,500.00	\$7,500
Parking improvements (anticipated 3 cars)	SF	1,000	\$20.00	\$20,000
Landscape/plantings enhancements	LS	1	\$15,000.00	\$15,000
Bicycle rack	EA	1	\$800.00	\$800
			SUB-TOTAL	\$43,300
Planning, Design, Permitting & Engineering				
Permitting*	LS	1	\$3,000.00	\$3,000
Construction documents & engineering		12%		\$78,994 (12% of Construction)
Surveying (control, anthropogenic features, topography, substantial trees for 100' swath of total length)	AC	13	\$555.00	\$7,215
			SUB-TOTAL	\$89,209
SUBTOTAL				\$747,496
15% Contingency				\$112,124
TOTAL				\$859,620

*Permitting anticipates erosion control, right-of-way encroachments, regulatory environmental (buffer encroachment, stream crossing, etc).

Units:

EA= each

LS= lump sum

LF= linear foot

AC= acre

SY= square yard

MI= Mile

Notes: 1.) Cost estimate does not include landowner outreach, traffic impact studies, land acquisition, wetland determination/delineation, potential rock and unsuitable soils excavation, permitting fees, utility coordination, attorney costs, transactional fees and taxes 2.) Trail costs are based on historic project costs with varying conditions. Costs include clearing and grubbing, paving, base course, minor storm drain pipe, erosion control features, plantings, signs, pavement markings, minor modular retaining walls.

Turkey Creek Greenway: Southern Phase

Probable Cost Estimate January 2016

Cost estimates are preliminary and subject to change. Inflation should be considered in costs when using for future planning and implementation.

	Units	Quantity	Cost Per Unit	Costs	notes:
Mobilization					
Mobilization (includes mobilization for all work like grading, greenway, street crossings, drainage, etc.)	LS	1	\$37,430.50	\$37,430	2% of construction cost
			SUB-TOTAL	\$37,430	
Grading & Greenway Construction					
12' asphalt greenway	LF	3,068	\$70.00	\$214,760	
Reinforced trail system (wetlands)	LF	3,629	\$75.00	\$272,175	additional undercut, fill & geotextile reinforcement
Stormwater BMPs/storm drainage	LF	6,191	\$11.36	\$70,330	*total length does not include underpass, deck or bridge
Fencing (total fencing for all of phase)	LF	0	\$12.00	\$0	
			SUB-TOTAL	\$557,265	
Street Crossings					
Below-grade culvert underpass	LS	1	\$450,000.00	\$450,000	
Mid-block crossing with island (Gilbert Drive)	EA	1	\$13,520.00	\$13,520	
Mid-block crossing (Outlet Drive)	EA	1	\$770.00	\$770	
Mid-block crossing (Private Drive)	EA	1	\$770.00	\$770	
Off/On ramp improvements (Lovell Road and I-40/75 interchange)	EA	2	\$13,500.00	\$27,000	
Intersection improvements for all crossings (truncated domes and ramps)	EA	6	\$3,500.00	\$21,000	
			SUB-TOTAL	\$513,060	
Drainage Crossings / Bridges					
Culverts in known drainages	EA	3	\$1,200.00	\$3,600	
Lovell Rd. Pedestrian Bridge Cantilever that an FRP (fiber reinforced polymer) decking System, including steep support structure, deck, and railing	SF	4,200	\$70.00	\$294,000	420' long x 10' wide.
Deck systems (10')	SF	3,500	\$60.00	\$210,000	Two sections of 300' and 50'. Based on PermaTrak product with pre-cast concrete piers.
Deck system rails (stainless cables)	LF	700	\$130.00	\$91,000	
Overlook decks (with approaches)	SF	800	\$85.00	\$68,000	
Lovell Road approach from floodplains	LF	690	\$90.00	\$62,100	Anticipated 12' asphalt and rails
			SUB-TOTAL	\$728,700	
Outlet Drive Trailhead					
Information/map kiosks	EA	1	\$7,500.00	\$7,500	
Paved parking lot for six cars	SF	3,000	\$20.00	\$60,000	
Landscape/Plantings Enhancements	LS	1	\$5,000.00	\$5,000	
			SUB-TOTAL	\$72,500	
Planning, Design, Permitting & Engineering					
Permitting*	LS	1	\$20,000.00	\$20,000	
Flood study / no-rise permitting	LS	1	\$10,000.00	\$10,000	
Construction documents & engineering		12%		\$229,075	(12% of Construction)
Surveying (control, anthropogenic features, topography, substantial trees for 100' swath) of total length	AC	65	\$555.00	\$36,075	
			SUB-TOTAL	\$295,150	

SUBTOTAL	\$2,204,105
15% Contingency	\$330,616
TOTAL	\$2,534,721

*Permitting anticipates erosion control, right-of-way encroachments, regulatory environmental (buffer encroachment, stream crossing, etc),

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Notes: 1.) Cost estimate does not include landowner outreach, traffic impact studies, land acquisition, wetland determination/delineation, potential rock and unsuitable soils excavation, permitting fees, utility coordination, attorney costs, transactional fees and taxes 2.) Trail costs are based on historic project costs with varying conditions. Costs include clearing and grubbing, paving, base course, minor storm drain pipe, erosion control features, plantings, signs, pavement markings, minor modular retaining walls.