

Titusville Trail Town Master Plan
Priority Project Budgets
April 5, 2013

	<u>Item Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Cost</u>	<u>Subtotal</u>
1	Establish a Trail Town Action Team (TTAT) to lead, direct, delegate, and promote implementation of recommendations				No Cost
2	a				
	Way-finding signs (for motorists)- Consistent, clear signage offering directions to town and trailhead				
	Gateway Signs at Roadway Approach to Town	EA	3	\$1,500	\$4,500
	Gateway Sign Placard (hang under existing Titusville Sign- Route 8 North Approach)	EA	1	\$250	\$250
	MUTCD Approved Directional Signs at Roadway Approach to Town	EA	25	\$180	\$4,500
2	b				
	Way-finding signs (for trail users)- Bike route signs from trail to town and through town as a route system- directional & wayfinding				
	MUTCD Pavement Markings for Bike Routes and Shared Lane Markings (SLM)	Allowance	1	\$5,000	\$5,000
	MUTCD Approved Directional Signs for SLM and Bike Routes	EA	20	\$180	\$3,600
	Signs Along Trail- 'Titusville, Trail Town Ahead'	EA	4	\$180	\$720
	Subtotal				\$18,570
3	Construct the Trail-to-Town Bike Route				
	Overhead signal at pedestrian crossing (SR27)	EA	2	\$20,000	\$40,000
	MUTCD pavement markings at crossing	LS	7	\$800	\$5,600
	Bike Route pavement markings	Allowance	1	\$5,000	\$5,000
	Sidewalk repairs	Allowance	1	\$1,500	\$1,500
	ADA curb ramp upgrades	EA	14	\$900	\$12,600
	Bike Lane Route, including overhead crossing signal subtotal				\$64,700
	PHASE-1- ITEM 1, 2, 3- TRAIL TOWN IMPROVEMENTS				\$83,270
4	Information kiosks for trail users (digital information- business directory, services & events, map, contact information) 1 at Trail and S.Martin and 1 at Fleming Park	EA	2	\$8,000	\$16,000
	Wi-Fi Connectivity at Kiosk Area	Allowance			Unknown
5	Create bike route map (example from Pitt's Main Campus)	Allowance	1	\$900	\$900
6	Communication and awareness building				No Cost
	Promote 'Walk To...' weeks; promote 'Bike To...' weeks and general pedestrian-bicycle awareness				No Cost
	Promote Safety Awareness Programs with local schools and law enforcement (for both walkers and bikers)				No Cost
7	Construct overhead signal at pedestrian crossing of SR27 and Kerr Street				
	Overhead signalized crossings (SR27); includes post/arm/2-way signal	EA	1	\$20,000	\$20,000
	MUTCD pavement markings at crossing	LS	1	\$800	\$800
	PHASE-2 TRAIL TOWN IMPROVEMENTS				\$37,700
8	Establish a trailhead and trailhead parking areas				
	Signs for Trailhead Parking in Existing Lots (NIC property access agreement)	EA	20	\$180	\$3,600
	Trailhead parking along Street (Signs for Trailhead Parking)	EA	10	\$180	\$1,800
9	Apply for BFC and BFU status				No Cost
10	Visitor Center / Welcome Center- Add enhancements to existing centers- Perry St RR Station/Chamber of Commerce; promote bicycling and safe routes; trail town development and wayfinding for visitors to Titusville	Allowance	1	\$2,500	\$2,500
	<i>Perry RR Station- Oil Creek and Titusville RR Station, Chamber of Commerce</i>				
11	Fleming Park Improvements	Allowance	1	\$20,000	\$20,000
	Bike racks, Benches, Trash Receptacles, New pavements, Landscaping, Lights				
	PHASE-3 TRAIL TOWN IMPROVEMENTS				\$27,900
12	New bike racks (or relocate existing racks)	EA	10	\$500	\$5,000
13	Different style bike racks, "post and ring" style or potentially shaped as oil derricks	Allowance	1	\$5,000	\$5,000
14	Billboards (murals on buildings)- Market, Promote and Encourage Development				Unknown
15	Retail shops and souvenirs- Market, Promote and Encourage Development				Unknown
16	Business hours need to be expanded				No Cost
17	Need a bike shop and/or outfitter with sporting equipment- Market, Promote and Encourage Development				Unknown

18	General appearance of business district- Market, Promote and Encourage Development				Volunteers	
19	Façade improvements, night lighting- Market, Promote and Encourage Development				Unknown	\$10,000
PHASE-4 TRAIL TOWN IMPROVEMENTS						
20	Streetscape and Outdoor Features Artwork, Sculptures, Town Clock, etc.		By Others		Others	
21	Participate with and Promote Safe Routes to School Programs				Unknown	
22	Miscellaneous Streetscape Improvements for Safe Routes (connect into the community)					
	ADA curb ramp improvements	LS	1	\$10,000	\$10,000	
	Concrete walk improvements	LS	1	\$10,000	\$10,000	
	Lighting	LS	1	\$30,000	\$30,000	
	Landscaping	LS	1	\$5,000	\$5,000	
	Signing and Pavement Markings (MUTCD for safety and awareness)	LS	1	\$2,500	\$2,500	
23	Host Community Rides and Hikes		Allowance	1	\$1,500	\$1,500
24	Participate in National Bike Month Activities				No Cost	
PHASE-5 TRAIL TOWN IMPROVEMENTS						
GRAND TOTAL BUDGET FOR TRAIL TOWN MASTER PLAN PROJECTS						\$217,870
(not including trail town manager's time, material and costs)						

Not included are: costs for field survey, right-of-way investigation, design & engineering, permitting fees or construction contingencies.

Suggested General Best Practice 'Green Techniques' for Design:

- 1 Use of Pervious Pavements
 - Pervious Pavers
 - Pervious Concrete
 - New Parking- Gravel Lots or Grass Pavers
- 2 Use of Infiltration Swales, Basin, Trenches, Rain Gardens (minimize stormwater entering the municipal system and adding to CSO's)
- 3 Evapo-transpiration Techniques- traverse storm water through open swale and over rock boulders toward rain garden
- 4 Use of Native Plant Species
- 5 Shade Parking Lots & Pavements with canopy trees
- 6 Use of native rock boulders and native species along river bank to control erosion
- 7 Reuse of metals, plastics, crushed concrete, reclaimed crushed asphalt as construction materials
- 8 Specifying recycled materials for most new building products- street furniture, signs, shelters, pavements, etc.
- 9 Structures- Solar collectors on shelters for energy generation; use of composting toilets- with window and skylight design to minimize need for lights; use of indigenous materials for building materials.