

CHAPTER 4: COST ESTIMATE METHODOLOGY

LAND USE AND STREETScape IMPROVEMENTS

Cost estimates for the recommended streetscape improvements in the US 50 Corridor are conceptual, planning-level estimates that are based on sample private development projects from other communities that contain these types of similar streetscape elements. These costs do not include location-specific land use development opportunities; they are solely streetscape costs along the corridor. It is assumed that public funds would be used to make the streetscape improvements, therefore costs were increased by 15 percent to account for prevailing wage requirements and contractor qualification procedures. A 20 percent contingency was also added to compensate for the planning level of detail. Below is a specific description of the methodology used for estimating costs of streetscape elements for each section of the US 50 corridor. Figure 4-1 includes more detailed information regarding the streetscape costs and can be found at the end of this chapter. A summary of the streetscape costs for each sub-section of the corridor is included in Figure 4-2.

Figure 4-2: Sub-Section Summary Project Costs

Sub-Section	Streetscape Costs	Access Management Costs	Project Total
Stateline Road to I-275/SR 1	N/A	\$3,500,000	\$3,500,000
I-275/SR 1 to Argosy Parkway	\$700,000	\$3,000,000	\$3,700,000
Argosy Parkway to Walnut Street/Stadium Lane	\$40,000	\$1,000,000	\$1,040,000
Walnut Street/Stadium Lane to Front Street	\$500,000	\$500,000	\$1,000,000
Front Street to SR 48	\$50,000	\$600,000	\$650,000
SR 48 to Tanners Creek Road	\$200,000	\$2,000,000	\$2,200,000
Tanners Creek Road to Wilson Creek Road	\$700,000	\$3,000,000	\$3,700,000
Wilson Creek Road to SR 148	\$600,000	\$4,000,000	\$4,600,000
SR 148 to George Street	N/A	\$200,000	\$200,000
George Street to SR 350	N/A	\$500,000	\$500,000
SR 350 to SR 62	N/A	\$14,000,000*	\$14,000,000

* Includes extensive drainage work to install curb

Sidewalks

Cost estimates for sidewalk construction were based on a cost of \$4 per square foot for installation of a four inch thick sidewalk, including the base. Proposed sidewalk square footage was estimated by measuring length with GIS software, and multiplying the length by an assumed width of eight feet, a typical sidewalk width.

The same methodology was applied to estimates for sidewalk widening in the Argosy Parkway to SR 48 section. In this case, however, the width used was six feet, to account for the widening of existing sidewalks from six feet (estimated existing width) to 12 feet.

Replacing Pavement with Treelawns

Since treelawns are proposed to replace portions of existing parking lots and driveways to be closed, a cost estimate was developed for demolition and disposal of asphalt, clean fill backfill and topsoil dress, and hydro-seeding with grass. This cost was estimated at \$4.50 per square foot. Total square footage of proposed replacement of pavement with treelawns was estimated by measuring the length of these areas with GIS software, and multiplying the length by an assumed width of 10 feet.

Tree Planting

Trees are recommended in center medians, along treelawns, and in some areas, sidewalk grates (see Exhibit 4-1). Costs can vary from \$400 to \$600 per tree depending on the type of the tree. In this case, the middle of this range, \$500, was used. The number of proposed trees was estimated by measuring the lengths of areas in which trees are to be planted with GIS software, and dividing the length by the distance between trees. Throughout most of the corridor, this distance is 35 feet. Between Argosy Parkway and SR 48, this distance is 25 feet, recognizing the slower traffic and pedestrian scale of this area.

Exhibit 4-1: Tree Planting/ Ornamental Wall/Fence



Ornamental Wall/Fence

This feature is only proposed between Argosy Parkway and SR 48 (see Exhibit 4-1). The proposed type of wall/fence combination is a three foot tall decorative metal fence (such as wrought iron) interspersed with sections of masonry wall with a limestone cap. Roughly 25 percent of this wall/fence is masonry, which costs approximately \$150 per linear foot. The remaining 75 percent would be ornamental metal fencing, which costs approximately \$85 per linear foot.

Landscape Beds

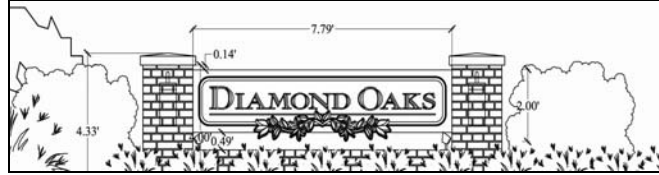
Landscape beds with flowers and shrubs are proposed at community gateways and key development nodes. The installation cost of a landscape bed is approximately \$8 per square foot. Square footages of planting beds at various locations were estimated as follows:

- Ohio/Indiana state line
- Regional gateway at intersection of US 50 and I-275: 6,000 square feet
- Intersections of Lorey Lane and Urban Way with US 50: 1,000 square feet each
- Local gateway at Lawrenceburg/Aurora boundary: 2,500 square feet

Gateway Signage

Gateway signage is proposed at three locations: the I-275 interchange, the Lawrenceburg/Aurora boundary and the Ohio/Indiana state line. A decorative ground-mounted sign with a masonry frame and base, roughly 11 feet wide and four feet tall, was estimated to cost between \$6,000 and \$8,000 (see Exhibit 4-2).

Exhibit 4-2: Gateway Signage



Raised Crosswalks

This feature was recommended only between Argosy Parkway and SR 48. The estimated cost of a raised, stamped concrete crosswalk is \$16 per square foot. Square footage was calculated by assuming a 55 foot length and a 12 foot width for each crosswalk.

Street Lamps

This feature, proposed only between Argosy Parkway and SR 48, was estimated to cost between \$3,500 and \$4,000 per street lamp, assuming a double-fixture, decorative design similar to the design illustrated below (see Exhibit 4-3). The cost estimates for this report used the average of this range, which is \$3,750.

Exhibit 4-3: Street Lamps



ACCESS MANAGEMENT IMPROVEMENTS

The estimated project cost is a construction cost estimate for the recommended improvements. These costs were considered to be at a planning level, thus a 10 to 20 percent contingency was added to each cost along with an overall 20 percent contingency. The following are assumptions for the access management improvements only; the land use improvement cost assumptions were discussed previously in this chapter. Figure 4-3 provides the details of the cost estimate and can be found at the end of the chapter. A summary of the sub-section project costs is included in the Figure 4-2.

Curb

A Type 6 curb (6 foot curb) would be installed the entire length of the project. Dives and or entrances would be saw cut as needed. At this point in the project development process, it is a good assumption that the entire curb would need replacement. This assumption may change as the project is designed in more detail.

Right-in/Right-out Islands

Right-in/right-out traffic islands shall be constructed as shown, which would consist of 42.33 square yards of 6 foot wide concrete.

Service Roads

Two-way and or one-way service roads would be constructed using 6 feet of aggregate base, 4 feet of asphalt concrete base and 3 feet of asphalt concrete. Proposed lane widths would be 12 feet minimum.

Excavation

A quantity of excavation would be needed for the removal of flexible pavement in the proposed median area and where driveways are noted as removed.

Embankment Material for Median

Embankment material would be needed for the placement of suitable material in the landscaped median area and behind the proposed curb along the edge of pavement as needed.

Drainage

Currently, a ditch system is utilized to carry water run-off on many sections of US 50. A drainage system would be needed if curb is installed. This can be a costly improvement. The benefits and costs of constructing a curb the entire length of US 50 would need to be further investigated, particularly in Section 4 from SR 350 to SR 62. This drainage system should include catch basins spaced at every 250 feet, manholes spaced at 500 feet and an average of 30 inch concrete pipe connecting the drainage system and outletting to an approved outfall.

Signage

Signing, including post installations for such signs as “One Way”, “Stop” and “No Left Turn” should be installed as shown on the plans.

Raised Median

A 10 foot wide raised concrete median referred to as the landscaped median should be constructed where two-way left turn lanes presently exist. The cost for the concrete median would consist of pavement excavation, a 6 foot concrete curb, embankment material, 3 feet of topsoil, seeding and mulching. This number does not assume landscaping; only the topsoil and base that landscaping would require.

Figure 4-1: Streetscape Costs

Corridor Section	Unit	New Sidewalk	Widen Sidewalk	Treelawn to replace pavement	Trees in Median		Trees, Treelawn/sidewalk grates		Flower Beds	Signs	Ornamental Fence/Wall	Street lamps	Stamped concrete crosswalks	TOTAL
		Square feet	Square feet	Square feet	Lineal Feet, Tree Portion of Median	Trees	Lineal Feet, Treelawn or widened sidewalk	Trees	Square feet	Sign	Lineal feet	Lamp	Square feet	
Corridor Section	Cost per unit	\$4	\$4	\$4.50	n/a	\$500	n/a	\$500	\$8	\$6,000	\$101.25	\$3,750	\$16	
275-Argosy Parkway	Total Units	59296	0	12820	4463	128	7257	207	8000	1	0	0	0	
	Total Cost	\$327,314	\$0	\$79,612	n/a	\$87,985	n/a	\$143,067	\$88,320	\$8,280	\$0	\$0	\$0	\$734,578
Argosy-Walnut	Total Units	6,864	0	0	0	0	n/a	0	0	0	0	0	0	
	Total Cost	\$37,889	\$0	\$0	n/a	\$0	n/a	\$0	\$0	\$0	\$0	\$0	\$0	\$37,889
Walnut to Front	Total Units	0	10,650	0	735	29	1775	71	0	0	1117	29	660	
	Total Cost	\$0	\$58,788	\$0	n/a	\$20,286	n/a	\$48,990	\$0	\$0	\$156,073	\$152,145	\$14,573	\$450,855
Front to SR 48	Total Units	0	0	0	0	0	n/a	0	0	0	0	0	1,980	
	Total Cost	\$0	\$0	\$0	n/a	\$0	n/a	\$0	\$0	\$0	\$0	\$0	\$43,718	\$43,718
SR 48 to Tanners Creek	Total Units	21,848	0	5,570	0	0	3,482	99	0	0	0	0	0	
	Total Cost	\$120,601	\$0	\$34,590	n/a	\$0		\$68,645	\$0	\$0	\$0	\$0	\$0	\$223,836
Tanner's Creek to Wilson Creek	Total Units	65,960	0	8,610	4,531	129	8,864	253	2,500	2	0	0	0	
	Total Cost	\$364,099	\$0	\$53,468	n/a	\$89,325		\$174,747	\$27,600	\$16,560	\$0	\$0	\$0	\$725,800
Wilson Creek to SR 148	Total Units	43,016	0	33,140	2,935	84	5,641	161	0	0	0	0	0	
	Total Cost	\$237,448	\$0	\$205,799	n/a	\$57,861		\$111,208	\$0	\$0	\$0	\$0	\$0	\$612,317

State wage and contractor requirements	15%
Contingency	20%

Figure 4-3: Cost Estimates

Access ID #	Map Sheet #	Access Type	Intersecting Street Name	ROADWAY					DRAINAGE			TRAFFIC CONTROL				10 FT WIDE LANDSCAPED MEDIAN					
				TYPE 6 CURB (FT) Note: 1	6" CONCRETE TRAFFIC ISLAND (SY YD) Note: 2	SERVICE ROAD (TWO-WAY) Note: 3	SERVICE ROAD (ONE-WAY) Note: 3	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	CATCH BASIN (EACH) Note: 6	MANHOLE (EACH) Note: 7	PIPE (FT) Note: 8	NO LEFT TURN SIGN (SQ FT) Note: 9	STOP SIGN (SQ FT) Note: 10	ONE WAY SIGN (SQ FT) Note: 11	GROUND MOUNTED SUPPORT (FT) Note: 12	TYPE 6 CURB (MEDIAN) (FT) Note: 13	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	TOPSOIL FURNISHED AND PLACED (CU YD) Note: 14	SEEDING AND MULCHING (SQ YD) Note: 15
SECTION 1																					
Stateline Road to I-275/SR 1			Total Length (miles) = 2																		
12	1	Driveway						21													
4	1	Driveway						22													
9	1	Driveway						19													
10	1	Driveway				300															
17	2	Driveway				100		15													
TOTAL				21120	0	400	0	77	0	86	44	25344	0	0	0	0	0	0	0	0	0
GRAND TOTAL				21120	0	400	0	77	0	86	44	25344	0	0	0	0	0	0	0	0	0
COST PER ITEM				\$13	\$55	\$160	\$80	\$7	\$5	\$3,000	\$3,500	\$85	\$12	\$12	\$12	\$6	\$13	\$7	\$5	\$35	\$1
TOTAL COST				\$274,560	\$0	\$64,000	\$0	\$537	\$0	\$259,440	\$154,840	\$2,154,240	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ESTIMATE CONSTRUCTION COST																\$339,097					
CONTINGENCY COST (20%)																\$581,523					
Stateline Road to I-275/SR 1 TOTAL COST																\$3,489,140					
I-275/SR 1 to Argosy Parkway			Total Length (miles) = 1.4																		
22A	3	Driveway - Walgreens						44													
22	3	Driveway - Walgreens						28													
23	3	Driveway						27													
24	3	Driveway						64													
25	3	Driveway - Shell & Subway						27													
26	3	Driveway - Ande Chevrolet											2.25			12					
27	3	Driveway						29													
28	3,4	Unsignalized Intersection	Walnut Street	400		150									12.5		24				
29	4	Driveway - Tire Center						26													
30	4	Driveway - Discount Store						25													
31	4	Driveway - Tire Center						32													
32	4	Driveway - Whiskey Cold Beer											2.25			12					
33	4	Driveway - Wishing Well Motel						12													
34	4	Driveway - Wishing Well Motel						32													
35	4	Driveway - Wishing Well Motel											2.25			12					
36	4	Driveway - Quality Inn											2.25			12					
37	4	Driveway - Marathon Gas Station											2.25			12					
38	4	Driveway - Truck Stop						66													
39	4	Driveway - M&M Automotive											2.25			12					
40	4	Unsignalized Intersection	Faith Way - Median Break	1000		430									6.25		12				
41	4	Driveway - Site redevelopment						24													
42	4	Driveway - Chrysler											2.25			12					
43	4	Driveway - Mixed small retail											2.25			12					
45	4	Unsignalized Intersection	Unnamed - Median Break												6.25		12				
46	4	Unsignalized Intersection	McClure Way - Median Break												6.25		12				
48	5	Driveway - Ford Dealership						25													
49	5	Driveway - Ford Dealership				500		33												14784	2053
GRAND TOTAL				16684	0	680	0	494	0	69	35	20021	18	31	0	156	14784	2053	2738	684	8213
COST PER ITEM				\$13	\$55	\$160	\$80	\$7	\$5	\$3,000	\$3,500	\$85	\$12	\$12	\$12	\$6	\$13	\$7	\$5	\$35	\$1
TOTAL COST				\$216,892	\$0	\$108,800	\$0	\$3,457	\$0	\$206,208	\$123,788	\$1,701,768	\$216	\$375	\$0	\$936	\$192,192	\$14,373	\$13,689	\$23,956	\$8,213
ESTIMATE CONSTRUCTION COST																\$329,149					
CONTINGENCY COST (20%)																\$522,973					
I-275/SR 1 to Argosy Parkway TOTAL COST																\$3,137,836					
GRAND TOTAL SECTION 1 COST																\$6,626,976					

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Access ID #	Map Sheet #	Access Type	Intersecting Street Name	ROADWAY					DRAINAGE			TRAFFIC CONTROL				10 FT WIDE LANDSCAPED MEDIAN					
				TYPE 6 CURB (FT) Note: 1	6" CONCRETE TRAFFIC ISLAND (SY YD) Note: 2	SERVICE ROAD (TWO-WAY) Note: 3	SERVICE ROAD (ONE-WAY) Note: 3	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	CATCH BASIN (EACH) Note: 6	MANHOLE (EACH) Note: 7	PIPE (FT) Note: 8	NO LEFT TURN SIGN (SQ FT) Note: 9	STOP SIGN (SQ FT) Note: 10	ONE WAY SIGN (SQ FT) Note: 11	GROUND MOUNTED SUPPORT (FT) Note: 12	TYPE 6 CURB (MEDIAN) (FT) Note: 13	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	TOPSOIL FURNISHED AND PLACED (CU YD) Note: 14	SEEDING AND MULCHING (SQ YD) Note: 15
SECTION 2																					
Argosy Parkway to Walnut Street/ Stadium Lane			Total Length (miles) = 0.6																		
51	5	Driveway						8													
54	5	Driveway												2.25			12				
56	5	Unsignalized Intersection	Third Street																		
GRAND TOTAL				6336	169	0	0	8	0	27	15	7603	2	0	0	12	0	0	0	0	0
COST PER ITEM				\$13	\$55	\$160	\$80	\$7	\$5	\$3,000	\$3,500	\$85	\$12	\$12	\$12	\$6	\$13	\$7	\$5	\$35	\$1
TOTAL COST				\$82,368	\$9,313	\$0	\$0	\$54	\$0	\$82,032	\$51,352	\$646,272	\$27	\$0	\$0	\$72	\$0	\$0	\$0	\$0	\$0
				\$91,735					\$779,656			\$99				\$0					
ESTIMATE CONSTRUCTION COST														\$871,490							
CONTINGENCY COST (20%)														\$174,298							
Argosy Parkway to Walnut Street/ Stadium Lane TOTAL COST														\$1,045,788							
Walnut Street/ Stadium Lane to Front Street			Total Length (miles) = 0.21																		
58	5	Driveway - A1 Auto						32													
59	5	Driveway - KFC						13													
60	5	Driveway - KFC												2.25			12				
61 B	5	Driveways - Boat Shop and Service												2.25			12				
61	5	Driveway - Alley						9													
62	5	Driveway - Bill's Service Car Repair						21													
63	5	Driveway - KFC												2.25			12				
64	5	Driveway - Bill's Service Car Repair					300														
65	5	Driveway - Fehrman Realty						33													
66	5	Driveway - Glass Pro						21													
67	5	Driveway - Fehrman Realty						50													
68	5,6	Driveway - Glass Pro						28													
69	5,6	Unsignalized Intersection	Water Street											2.25	6.25	3.00	36				
70	5,6	Driveway												2.25		3.00	12				
71	6	Driveway - Whisky's Driveway												2.25							
72	6	Driveway						17													
GRAND TOTAL				2618	42	0	300	224	0	12	7	3141	14	6	6	84	0	0	0	0	0
COST PER ITEM				\$13	\$55	\$160	\$80	\$7	\$5	\$3,000	\$3,500	\$85	\$12	\$12	\$12	\$6	\$13	\$7	\$5	\$35	\$1
TOTAL COST				\$34,029	\$2,328	\$0	\$24,000	\$1,567	\$0	\$37,411	\$25,323	\$266,995	\$162	\$75	\$72	\$504	\$0	\$0	\$0	\$0	\$0
				\$61,924					\$329,730			\$813				\$0					
ESTIMATE CONSTRUCTION COST														\$392,467							
CONTINGENCY COST (20%)														\$78,493							
Walnut Street/ Stadium Lane to Front Street TOTAL COST														\$470,960							
Front Street to SR 48			Total Length (miles) = 0.32																		
74	6	Unsignalized Intersection	Park Street													3.00	12				
76	6	Driveway																			
77	6	Unsignalized Intersection	Shipping Street																		
79	6	Unsignalized Intersection	Unnamed																		
GRAND TOTAL				3379	42	0	0	37	22	16	9	4055	0	6	3	24	0	0	0	0	0
COST PER ITEM				\$13	\$55	\$160	\$80	\$7	\$5	\$3,000	\$3,500	\$85	\$12	\$12	\$12	\$6	\$13	\$7	\$5	\$35	\$1
TOTAL COST				\$43,930	\$2,328	\$0	\$0	\$258	\$111	\$46,550	\$30,654	\$344,678	\$0	\$75	\$36	\$144	\$0	\$0	\$0	\$0	\$0
				\$46,627					\$421,883			\$255				\$0					
ESTIMATE CONSTRUCTION COST														\$468,765							
CONTINGENCY COST (20%)														\$93,753							
Front Street to SR 48 TOTAL COST														\$562,518							
GRAND TOTAL SECTION 2 COST														\$2,079,267							

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				TYPE 6 CURB (FT) Note: 1	6" CONCRETE TRAFFIC ISLAND (SY YD) Note: 2	SERVICE ROAD (TWO-WAY) Note: 3	SERVICE ROAD (ONE-WAY) Note: 3	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	CATCH BASIN (EACH) Note: 6	MANHOLE (EACH) Note: 7	PIPE (FT) Note: 8	NO LEFT TURN SIGN (SQ FT) Note: 9	STOP SIGN (SQ FT) Note: 10	ONE WAY SIGN (SQ FT) Note: 11	GROUND MOUNTED SUPPORT (FT) Note: 12	TYPE 6 CURB (MEDIAN) (FT) Note: 13	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	TOPSOIL FURNISHED AND PLACED (CU YD) Note: 14	SEEDING AND MULCHING (SQ YD) Note: 15						
SECTION 3																											
SR 48 to Tanners Creek Road			Total Length (miles) = 1.03																								
81	6	Driveway																									
82	6	Driveway																									
83	6	Driveway - Water Treatment Plant																									
84	6	Driveway - Kroger					42																				
85	6	Driveway																									
86	6	Driveway																									
87	6	Driveway																									
89	6	Unsignalized Intersection	Doughty Road																								
90	6	Driveway																									
91	6	Driveway - K&K Mini Mart, Jones																									
93	6	Driveway - Real Estate Services																									
100	6,7	Driveway - Car Wash																									
101	7	Driveway - Small Retail																									
102	7	Driveway - Skyline																									
103	7	Driveway - Classic Car Wash																									
104	7	Driveway																									
106	7	Unsignalized Intersection	County Road 5																								
GRAND TOTAL				12127	42	230	220	111	0	51	26	14552	2	19	3	60	0	0	0	0	0						
COST PER ITEM				\$13	\$55	\$160	\$80	\$7	\$5	\$3,000	\$3,500	\$85	\$12	\$12	\$12	\$6	\$13	\$7	\$5	\$35	\$1						
TOTAL COST				\$157,648	\$2,328	\$36,800	\$17,600	\$780	\$0	\$151,522	\$91,888	\$1,236,934	\$27	\$225	\$36	\$360	\$0	\$0	\$0	\$0	\$0						
																\$215,156			\$1,480,343			\$648			\$0		
ESTIMATE CONSTRUCTION COST																\$1,696,147											
CONTINGENCY COST (20%)																\$339,229											
SR 48 to Tanners Creek Road TOTAL COST																\$2,035,376											
Tanners Creek Road to Wilson Creek Road			Total Length (miles) = 1.11																								
109	7	Driveway - Art Deco Residence																									
110	7,8	Driveway - Golden Corral																									
112	8	Driveway - Pizza Hut																									
113	8	Driveway - Garden Center																									
114	8	Driveway - Garden Center																									
115	8	Driveway - Papa John																									
116	8	Unsignalized Intersection	Shurlite - Median Opening																								
117	8	Driveway - Open land																									
118	8	Driveway - Speedway																									
119	8	Driveway - Speedway																									
120	8	Driveway - Abandoned building																									
121	8	Driveway - Abandoned building																									
122	8	Driveway - Auto Zone																									
123	8	Driveway - Frish's																									
124	8	Driveway - Frish's																									
125	8	Unsignalized Intersection	Florence Drive - Median																								
126	8	Driveway - Pro Outdoors																									
127	8	Driveway - Movie Gallery																									
128	8	Driveway - Art's Rental																									
129	8	Driveway - US Bank																									
130	8	Driveway - US Bank																									
131	8	Driveway - Beers Auto Sales																									
132	8	Driveway - Small Retail																									
133	8	Driveway - Beers Auto Sales																									
134	8	Driveway - Beers Auto Sales																									
135	8	Driveway - Advance Auto Parts																									
138	8	Driveway - Do it Best Hardware																									
140	8	Driveway - Indiana Monument																									
141	8	Driveway - Modular home																									
142	8	Driveway - Long John Silvers																									
GRAND TOTAL				15772	0	410	900	427	80	65	34	18926	14	19	6	132	11722	1628	2171	543	6512						
COST PER ITEM				\$13	\$55	\$160	\$80	\$7	\$5	\$3,000	\$3,500	\$85	\$12	\$12	\$12	\$6	\$13	\$7	\$5	\$35	\$1						
TOTAL COST				\$205,031	\$0	\$65,600	\$72,000	\$2,987	\$400	\$195,259	\$117,401	\$1,608,703	\$162	\$225	\$72	\$792	\$152,381	\$11,396	\$10,853	\$18,993	\$6,512						
																\$346,017			\$1,921,364			\$1,251			\$200,135		
ESTIMATE CONSTRUCTION COST																\$2,468,768											
CONTINGENCY COST (20%)																\$493,754											
Tanners Creek Road to Wilson Creek Road TOTAL COST																\$2,962,521											
Wilson Creek Road to SR 148			Total Length (miles) = 1.95																								
144	9	Unsignalized Intersection	Hillcrest Drive - Median																								
145	9	Driveway - Insurance																									
146	9	Driveway - Insurance																									
147	9	Driveway - Dairy Queen																									
148	9	Driveway - Glass shop																									
149	9	Driveway - Ashcroft / Auto body																									
150	9	Driveway - Far East																									
151	9	Driveway - Far East																									
153	9	Driveway - Riverside Car Sales																									
154	9	Driveway - Riverside Car Sales																									

The Southeastern Indiana Gateway: US 50 Transportation and Land Use Plan

Access ID #	Map Sheet #	Access Type	Intersecting Street Name	ROADWAY						DRAINAGE			TRAFFIC CONTROL				10 FT WIDE LANDSCAPED MEDIAN					
				TYPE 6 CURB (FT) Note: 1	6" CONCRETE TRAFFIC ISLAND (SY YD) Note: 2	SERVICE ROAD (TWO-WAY) Note: 3	SERVICE ROAD (ONE-WAY) Note: 3	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	CATCH BASIN (EACH) Note: 6	MANHOLE (EACH) Note: 7	PIPE (FT) Note: 8	NO LEFT TURN SIGN (SQ FT) Note: 9	STOP SIGN (SQ FT) Note: 10	ONE WAY SIGN (SQ FT) Note: 11	GROUND MOUNTED SUPPORT (FT) Note: 12	TYPE 6 CURB (MEDIAN) (FT) Note: 13	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	TOPSOIL FURNISHED AND PLACED (CU YD) Note: 14	SEEDING AND MULCHING (SQ YD) Note: 15	
155	9	Driveway - All American Carwash											2.25			12						
156	9	Driveway - American Rental						86														
157	9	Driveway - Besslers Restaurant						106														
158	9	Driveway - Victory crafts						73														
159	9	Unsignalized Intersection	Boat Ramp - Median Opening											12.5		24						
161	9	Driveway - Riverside sales						16														
162	9	Driveway - Poor House Liquior						22														
163	9	Driveway - Riverside sales						20														
164	9	Driveway - house						5														
165	9	Driveway - Red Dog			100			20	20													
166	9	Driveway - Carpet World											2.25			12						
167	9	Driveway - Red Dog Gas Station			100			20	20				2.25			12						
168	9	Driveway - Trade Winds Marine						26														
169A		Help U Sell											2.25			12						
169	9	Driveway - residential											2.25			12						
170	9	Driveway - Locksmith			400		60	15														
171	9	Driveway - residential											2.25			12						
172	9	Driveway - Small Retail, Subway						79														
173	9	Driveway - residential											2.25			12						
174	9	Driveway - BP											2.25			12						
175	9	Driveway - BP						28														
176	9	Driveway - Family Dollar											2.25			12						
177	9	Driveway - residential											2.25			12						
178	9	Driveway - Family Dollar						17														
179	9	Driveway - Walgreens											2.25			12						
180	9	Driveway - Walgreens																				
181	9	Driveway - Family Dollar			200		30	139					2.25			12						
182	9	Driveway - Swifty Gas						15														
183								56														
184	9	Driveway - Swifty Gas						18														
GRAND TOTAL				21592	0	160	0	855	40	88	45	25910	38	19	0	240	0	0	0	0	0	0
COST PER ITEM				\$13	\$55	\$160	\$80	\$7	\$5	\$3,000	\$3,500	\$85	\$12	\$12	\$12	\$6	\$13	\$7	\$5	\$35	\$1	
TOTAL COST				\$280,696	\$0	\$25,600	\$0	\$5,985	\$200	\$265,104	\$158,144	\$2,202,384	\$459	\$225	\$0	\$1,440	\$0	\$0	\$0	\$0	\$0	\$0
													\$2,124			\$0						
ESTIMATE CONSTRUCTION COST													\$2,940,237									
CONTINGENCY COST (20%)													\$588,047									
Wilson Creek Road to SR 148 TOTAL COST													\$3,528,284									

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Access ID #	Map Sheet #	Access Type	Intersecting Street Name	ROADWAY					DRAINAGE			TRAFFIC CONTROL				10 FT WIDE LANDSCAPED MEDIAN										
				TYPE 6 CURB (FT) Note: 1	6" CONCRETE TRAFFIC ISLAND (SY YD) Note: 2	SERVICE ROAD (TWO-WAY) Note: 3	SERVICE ROAD (ONE-WAY) Note: 3	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	CATCH BASIN (EACH) Note: 6	MANHOLE (EACH) Note: 7	PIPE (FT) Note: 8	NO LEFT TURN SIGN (SQ FT) Note: 9	STOP SIGN (SQ FT) Note: 10	ONE WAY SIGN (SQ FT) Note: 11	GROUND MOUNTED SUPPORT (FT) Note: 12	TYPE 6 CURB (MEDIAN) (FT) Note: 13	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	TOPSOIL FURNISHED AND PLACED (CU YD) Note: 14	SEEDING AND MULCHING (SQ YD) Note: 15					
SR 148 to George Street				Total Length (miles) = 0.1																						
186	9,10	Unsignalized Intersection	Harrison Street					13																		
187	9,10	Driveway						17																		
188	9,10	Driveway						13																		
189	9,10	Driveway						13																		
190	10	Driveway						29																		
TOTAL				1056	0	0	0	86	0	6	4	1267	0	0	0	0	0	0	0	0						
GRAND TOTAL				1056	0	0	0	86	0	6	4	1267	0	0	0	0	0	0	0	0						
COST PER ITEM				\$13	\$55	\$160	\$80	\$7	\$5	\$3,000	\$3,500	\$85	\$12	\$12	\$12	\$6	\$13	\$7	\$5	\$35	\$1					
TOTAL COST				\$13,728	\$0	\$0	\$0	\$599	\$0	\$18,672	\$14,392	\$107,712	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0					
												\$14,327			\$140,776			\$0				\$0				
ESTIMATE CONSTRUCTION COST												\$155,103														
CONTINGENCY COST (20%)												\$31,021														
SR 148 to George Street TOTAL COST												\$186,123														
George Street to SR 350				Total Length (miles) = 0.3																						
193	10	Driveway						17																		
194	10	Driveway						34																		
196	10	Driveway						8																		
197	10	Driveway						12																		
198	10	Driveway						18																		
200	10	Driveway						21																		
GRAND TOTAL				3168	0	0	0	111	0	15	8	3802	0	0	0	0	0	0	0	0	0					
COST PER ITEM				\$13	\$55	\$160	\$80	\$7	\$5	\$3,000	\$3,500	\$85	\$12	\$12	\$12	\$6	\$13	\$7	\$5	\$35	\$1					
TOTAL COST				\$41,184	\$0	\$0	\$0	\$774	\$0	\$44,016	\$29,176	\$323,136	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0					
												\$41,958			\$396,328			\$0				\$0				
ESTIMATE CONSTRUCTION COST												\$438,286														
CONTINGENCY COST (20%)												\$87,657														
George Street to SR 350 TOTAL COST												\$525,943														
GRAND TOTAL SECTION 3 COST												\$9,238,248														

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Access ID #	Map Sheet #	Access Type	Intersecting Street Name	ROADWAY					DRAINAGE			TRAFFIC CONTROL				10 FT WIDE LANDSCAPED MEDIAN											
				TYPE 6 CURB (FT) Note: 1	6" CONCRETE TRAFFIC ISLAND (SY YD) Note: 2	SERVICE ROAD (TWO-WAY) Note: 3	SERVICE ROAD (ONE-WAY) Note: 3	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	CATCH BASIN (EACH) Note: 6	MANHOLE (EACH) Note: 7	PIPE (FT) Note: 8	NO LEFT TURN SIGN (SQ FT) Note: 9	STOP SIGN (SQ FT) Note: 10	ONE WAY SIGN (SQ FT) Note: 11	GROUND MOUNTED SUPPORT (FT) Note: 12	TYPE 6 CURB (MEDIAN) (FT) Note: 13	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	TOPSOIL FURNISHED AND PLACED (CU YD) Note: 14	SEEDING AND MULCHING (SQ YD) Note: 15						
SECTION 4																											
SR 350 to SR 62			Total Length (miles) = 8.4																								
202	10	Unsignalized Intersection	Exporting Street		42																						
203	10	Unsignalized Intersection	Unnamed		42																						
205	11	Unsignalized Intersection	Indiana Avenue		42																						
207	11,12	Unsignalized Intersection	Lower Dillsboro Road		42																						
208	12	Driveway		100				20	20																		
209	12	Driveway		100				20	20																		
219	13	Driveway																									
240	13	Driveway						8																			
270	14	Driveway				140																					
325	17	Driveway						13																			
331	17	Driveway						12																			
335	17	Driveway						20																			
339	17	Driveway						17																			
343	17	Driveway						12																			
347	17	Driveway						27																			
348	17	Driveway						27																			
349	17	Driveway						24																			
350	17,18	Driveway						16																			
351	18	Unsignalized Intersection	Sharon Drive					16																			
352	18	Driveway						24																			
390	19	Driveway						24																			
GRAND TOTAL				88904	169	140	0	281	40	358	180	106685	14	0	0	72	0	0	0	0							
COST PER ITEM				\$13	\$55	\$160	\$80	\$7	\$5	\$3,000	\$3,500	\$85	\$12	\$12	\$12	\$6	\$13	\$7	\$5	\$35	\$1						
TOTAL COST				\$1,155,752	\$9,313	\$22,400	\$0	\$1,964	\$200	\$1,072,848	\$629,328	\$9,068,208	\$162	\$0	\$0	\$432	\$0	\$0	\$0	\$0	\$0						
													\$1,189,628			\$10,770,384			\$594				\$0				
ESTIMATE CONSTRUCTION COST													\$11,960,606														
CONTINGENCY COST (20%)													\$2,392,121														
SR 350 to SR 62 (SECTION 4) GRAND TOTAL COST													\$14,352,728														

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Access ID #	Map Sheet #	Access Type	Intersecting Street Name	ROADWAY					DRAINAGE			TRAFFIC CONTROL				10 FT WIDE LANDSCAPED MEDIAN						
				TYPE 6 CURB (FT) Note: 1	6" CONCRETE TRAFFIC ISLAND (SY YD) Note: 2	SERVICE ROAD (TWO-WAY) Note: 3	SERVICE ROAD (ONE-WAY) Note: 3	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	CATCH BASIN (EACH) Note: 6	MANHOLE (EACH) Note: 7	PIPE (FT) Note: 8	NO LEFT TURN SIGN (SQ FT) Note: 9	STOP SIGN (SQ FT) Note: 10	ONE WAY SIGN (SQ FT) Note: 11	GROUND MOUNTED SUPPORT (FT) Note: 12	TYPE 6 CURB (MEDIAN) (FT) Note: 13	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	TOPSOIL FURNISHED AND PLACED (CU YD) Note: 14	SEEDING AND MULCHING (SQ YD) Note: 15	
PROJECT SUMMARIES																						
				TYPE 6 CURB (FT) Note: 1	6" CONCRETE TRAFFIC ISLAND (SY YD) Note: 2	SERVICE ROAD (TWO-WAY) Note: 3	SERVICE ROAD (ONE-WAY) Note: 3	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	CATCH BASIN (EACH) Note: 6	MANHOLE (EACH) Note: 7	PIPE (FT) Note: 8	NO LEFT TURN SIGN (SQ FT) Note: 9	STOP SIGN (SQ FT) Note: 10	ONE WAY SIGN (SQ FT) Note: 11	GROUND MOUNTED SUPPORT (FT) Note: 12	TYPE 6 CURB (MEDIAN) (FT) Note: 13	EXCAVATION (CU YD) Note: 4	EMBANKMENT (CU YD) Note: 5	TOPSOIL FURNISHED AND PLACED (CU YD) Note: 14	SEEDING AND MULCHING (SQ YD) Note: 15	
SECTION 1		TOTAL QUANTITY		16684	0	680	0	494	0	69	35	20021	18	31	0	156	14784	2053	2738	684	8213	
\$6,626,976		TOTAL COST		\$216,892	\$0	\$108,800	\$0	\$3,457	\$0	\$206,208	\$123,788	\$1,701,768	\$216	\$375	\$0	\$936	\$192,192	\$14,373	\$13,689	\$23,956	\$8,213	
				\$329,149					\$2,031,764			\$1,527				\$252,423						
SECTION 2		TOTAL QUANTITY		3379	42	0	0	37	22	16	9	4055	0	6	3	24	0	0	0	0	0	
\$2,079,267		TOTAL COST		\$43,930	\$2,328	\$0	\$0	\$258	\$111	\$46,550	\$30,654	\$344,678	\$0	\$75	\$36	\$144	\$0	\$0	\$0	\$0	\$0	
				\$46,627					\$421,883			\$255				\$0						
SECTION 3		TOTAL QUANTITY		3168	0	0	0	111	0	15	8	3802	0	0	0	0	0	0	0	0	0	
\$9,238,248		TOTAL COST		\$41,184	\$0	\$0	\$0	\$774	\$0	\$44,016	\$29,176	\$323,136	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
				\$41,958					\$396,328			\$0				\$0						
SECTION 4		TOTAL QUANTITY		88904	169	140	0	281	40	358	180	106685	14	0	0	72	0	0	0	0	0	
\$14,352,728		TOTAL COST		\$1,155,752	\$9,313	\$22,400	\$0	\$1,964	\$200	\$1,072,848	\$629,328	\$9,068,208	\$162	\$0	\$0	\$432	\$0	\$0	\$0	\$0	\$0	
				\$1,189,628					\$10,770,384			\$594				\$0						
				\$1,607,363					\$13,620,359			\$2,376				\$252,423						
		GRAND TOTAL		112,135	212	820	0	922	62	457	232	134,562	32	38	3	252	14,784	2,053	2,738	684	8,213	
		GRAND TOTAL COST		\$1,457,758	\$11,641	\$131,200	\$0	\$6,453	\$311	\$1,369,622	\$812,946	\$11,437,790	\$378	\$450	\$36	\$1,512	\$192,192	\$14,373	\$13,689	\$23,956	\$8,213	
				GRAND TOTAL CONSTRUCTION COST												\$32,297,219						
				RIGHT OF WAY COSTS												\$25,000						
				ENGINEER'S COST (12%)												\$3,875,666						
				PROJECT TOTAL ESTIMATED COST												\$36,197,885						

NOTES:

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| <p>1) TYPE 6 CURB SHALL BE INSTALLED ON BOTH SIDES OF THE ROADWAY. ENTRANCES/DRIVES WILL BE SAWCUT WHERE NEEDED.</p> <p>2) FOR THE RIGHT-IN RIGHT OUT A 6" CONCRETE TRAFFIC ISLAND WILL USED AND INCLUDES 42.33 SQUARE YARDS OF ITEM 609, 6" CONCRETE TRAFFIC ISLAND.</p> <p>3) SERVICE ROAD: INCLUDES THE FOLLOWING PAVEMENT BUILD-UP FOR A 12' LANE; 3" OF ITEM 448 ASPHALT CONCRETE, 4" OF ITEM 301 ASPHALT CONCRETE BASE AND 6" OF ITEM 304 AGGREGATE BASE. TWO-WAY ROADWAY IS FOR 24 FEET OF PAVEMENT AND ONE-WAY IS FOR 12 FEET OF PAVEMENT.</p> <p>4) EXCAVATION SHALL INCLUDE THE REMOVAL OF ALL PAVEMENT INCLUDING BUT NOT LIMITED TO DRIVEWAYS, ASPHALT CONCRETE AND NATURAL SOILS.</p> <p>5) EMBANKMENT SHALL INCLUDE THE REPLACING OF SUITABLE MATERIAL IN THE MEDIAN AND BEHIND THE CURB LINE.</p> <p>6) CATCH BASIN SHALL INCLUDE CATCH BASIN NO. 3 ALONG THE CURB LINE EVERY 250 FEET ON BOTH SIDES OF THE ROADWAY.</p> <p>7) MANHOLE SHALL INCLUDE MANHOLE NO. 3 PLACED DOWN THE CENTER OF ROADWAY EVERY 500 FEET.</p> | <p>9) NO LEFT TURN SIGN SHALL INCLUDE 30 INCH R3-2, ACCORDING TO ODOT, AND PLACED AT A 6 FOOT HEIGHT ABOVE THE GROUND</p> <p>10) STOP SIGN SHALL INCLUDE FABRICATION OF 30' X 30" STOP SIGN AND INSTALLATION</p> <p>11) ONE WAY SIGN SHALL INCLUDE FABRICATION OF A 36" X 12" ONE WAY SIGN AND INSTALLATION</p> <p>12) GROUND MOUNTED SUPPORT: INCLUDES 12 FOOT YIELDING POST AS NEEDED</p> <p>13) TYPE 6 CURB (MEDIAN): INCLUDES TYPE 6 CURB INSTALLED IN THE CENTER OF THE ROADWAY FOR THE PURPOSED OF CREATING A LANDSCAPED MEDIAN</p> <p>14) TOPSOIL FURNISHED AND PLACED: INCLUDES FURNISHING AND PLACING 3" OF TOPSOIL IN THE LANDSCAPED MEDIAN AREA.</p> <p>15) SEEDING AND MULCHING: INCLUDES PREPARING AND INSTALLING SEEDING AND OR MULCHING IN THE LANDSCAPED MEDIAN AREA</p> |
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