

Concept	Unit	Unit Cost	Concept 1		Concept 7		Concept 12	
			Unit	Total	Unit	Total	Unit	Total
Excavation (less than 300K CY)	CU YD	\$47.00	891	\$41,858.25	8,924	\$419,408.70	9,944	\$467,372.44
Excavation(over 300K CY)	CU YD	\$6.00		\$0.00				\$0.00
Embankment (less than 5k CY)	CU YD	\$85.00	47	\$4,025.29	195	\$16,543.01	3,782	\$321,471.41
Embankment (over 5k CY)	CU YD	\$15.00		\$0.00		\$0.00		\$0.00
Asphalt Surface	Ton	\$120.00	66	\$7,920.00	326	\$39,144.22	489	\$58,639.07
Asphalt Base	Ton	\$115.00	310	\$35,650.00	1,522	\$175,061.63	2,280	\$262,246.96
Asphalt Base - B & G ONLY	Ton	\$108.00						
Crushed Stone Base	Ton	\$30.00	462	\$13,860.00	2,274	\$68,205.83	3,406	\$102,174.14
Structures	SQ FT	\$200	0	\$0.00	0	\$0.00	0	\$0.00
Curb & Gutter	LF	\$60	642	\$38,522.59	0	\$0.00	0	\$0.00
Sidewalk	SQ YD	\$272.00	0	\$0.00	0	\$0.00	0	\$0.00
Item total				\$137,810.84		\$701,820.38		\$890,432.61
Drainage	LS	20%		\$27,562.17		\$140,364.08		\$178,086.52
Mobilization/Demobilization	LS	3%		\$4,134.33		\$21,054.61		\$26,712.98
MOT	LS	3%		\$4,134.33		\$21,054.61		\$26,712.98
Miscellaneous	LS	25%		\$34,452.71		\$175,455.10		\$222,608.15
Subtotal 2				\$208,094.37		\$1,059,748.78		\$1,344,553.24
Contingency	LS	30%		\$62,428.31		\$317,924.63		\$403,365.97
Total Construction Cost				\$270,523		\$1,377,673		\$1,747,919

Concept: **2a. Wickliffe Striping/Signs/ADA**
 Description: Only ADA sidewalk items included (not complete removal and reconstruction)

BMP: 3.300 **0.04 mi south of KY 121**
 EMP: 3.600 **US 60**
 Length (ft): 1584

	Length	Width (PR)	Notes
Bridge(s)			
Mainline/Paved			
Full Depth Pavement			
Surface	300	42	2 lanes + 2 shoulder In courthouse area only
Curb/Gutter			ADA only
Sidewalk		5	ADA only + Courthouse widening

Calculations

Item	Unit	Unit Cost	Quantity	Cost	Totals
Mainline Pavement					\$ 18,769
2677	2677 Asphalt Milling	TON	\$ 75.00	96	\$ 7,219
212	CL2 ASPH BASE 1.00D PG64-22	TON	\$ 115.00		\$ -
301	CL2 ASPH SURF 0.38D PG64-22	TON	\$ 120.00	96	\$ 11,550
Concrete					\$ 342,899
2721	2721 Remove Concrete Sidewalk	SY	\$ 223.00	69	\$ 15,486
2720	2720 Concrete Sidewalk	SY	\$ 272.00	378	\$ 102,756
2720	2720 Concrete Corners	SY	\$ 272.00	104	\$ 28,258
3288	3288 Sidewalk Ramp Type 2	Ea	\$ 5,000.00	34	\$ 170,000
1810	1810 Curb & Gutter	LF	\$ 60.00	440	\$ 26,400
					\$ -
Other					\$ 107,488
	Solar LED Advanced Warning Signs	Set	\$ 20,000.00	1	\$ 20,000
	Lights at Intersections	Ea	\$ 20,000.00	4	\$ 80,000
6542	PAVE STRIPING-THERMO-6 IN	LF	\$ 1.17	6,400	\$ 7,488
Parametric					\$ 239,270
	DRAINAGE	LS	20%		\$ 93,831
2569	MOBILIZATION/DEMobilIZATION	LS	3%		\$ 14,075
2650	MAINTAIN & CONTROL TRAFFIC	LS	3%		\$ 14,075
	MISCELLANEOUS	LS	25%		\$ 117,289
Contingency					\$ 212,528
	Contingency	LS	30%		\$ 212,528
Escalation					\$ -
	Factored for Future Implementation	LS			\$ -
Construction					\$ 920,954

Concept: **3 Phoenix Drainage**
 Description: Chevrons and HFST through curves, ditching & Shouldering, and striping

BMP:
 EMP:
 Length (ft): 3800

Length Width (PR) Notes
 Bridge(s)
 Mainline/Paved
 Full Depth Pavement
 Surface
 Curb/Gutter
 Sidewalk

Calculations

Item	Unit	Unit Cost	Quantity	Cost	Totals
Mainline Pavement					\$ -
2677	2677 Asphalt Milling	TON	75.00	\$ -	
212	CL2 ASPH BASE 1.00D PG64-22	TON	115.00	\$ -	
301	CL2 ASPH SURF 0.38D PG64-22	TON	120.00	\$ -	
Concrete					\$ -
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
Other					\$ 517,784
	2575 Ditching and Shouldering	LF	20.00	3,800	\$ 76,000
	6542 PAVE STRIPING-THERMO-6 IN	LF	1.17	15,200	\$ 17,784
	23229EC High Friction Surface Treatment	SY	60.00	6,933	\$ 416,000
6542	Chevrons-All Inclusive	Ea	500.00	16	\$ 8,000
Parametric					\$ 264,070
	DRAINAGE	LS	20%		\$ 103,557
2569	MOBILIZATION/DEMobilIZATION	LS	3%		\$ 15,534
2650	MAINTAIN & CONTROL TRAFFIC	LS	3%		\$ 15,534
	MISCELLANEOUS	LS	25%		\$ 129,446
Contingency					\$ 234,556
	Contingency	LS	30%		\$ 234,556
Escalation					\$ -
	Factored for Future Implementation	LS			\$ -
Construction					\$ 1,016,410

Concept: **5 Bardwell Sidewalks**
 Description: Includes existing sw removal/replacement/c&g/ lighting/no resurfacing
Apartment Complex in the south to Flagler Hardware in the north.

BMP: 7.000

EMP: 8.200

Length (ft): 6336

	<u>Length</u>	<u>Width (PR)</u>	<u>Notes</u>
Bridge(s)			
Mainline/Paved			
Full Depth Pavement			
Surface			
Curb/Gutter			
Sidewalk		5	

Calculations

Item	Unit	Unit Cost	Quantity	Cost	Totals
Mainline Pavement					\$ -
2677	2677 Asphalt Milling	TON	\$ 75.00		\$ -
212	CL2 ASPH BASE 1.00D PG64-22	TON	\$ 115.00		\$ -
301	CL2 ASPH SURF 0.38D PG64-22	TON	\$ 120.00		\$ -
Concrete					\$ 3,229,956
2721	2721 Remove Concrete Sidewalk	SY	\$ 223.00	3,911	\$ 872,178
2720	2720 Concrete Sidewalk	SY	\$ 272.00	4,889	\$ 1,329,778
3288	3288 Sidewalk Ramp Type 2	Ea	\$ 5,000.00	100	\$ 500,000
1810	1810 Curb & Gutter	LF	\$ 60.00	8,800	\$ 528,000
					\$ -
Other					\$ 680,420
	Lighting	LF	\$ 100.00	6,500	\$ 650,000
6542	PAVE STRIPING-THERMO-6 IN	LF	\$ 1.17	26,000	\$ 30,420
Parametric					\$ 1,994,292
	DRAINAGE	LS	20%		\$ 782,075
2569	MOBILIZATION/DEMobilIZATION	LS	3%		\$ 117,311
2650	MAINTAIN & CONTROL TRAFFIC	LS	3%		\$ 117,311
	MISCELLANEOUS	LS	25%		\$ 977,594
Contingency					\$ 1,771,400
	Contingency	LS	30%		\$ 1,771,400
Escalation					\$ -
	Factored for Future Implementation	LS			\$ -
Construction					\$ 7,676,067

Concept: **6 Bardwell Hill Signage/Lights (Safety)**
 Description: Includes adding street lights to existing poles (Assume 30)

BMP: 6.600
 EMP: 7.300
 Length (ft): 3696

Length Width (PR) Notes
 Bridge(s)
 Mainline/Paved
 Full Depth Pavement
 Surface
 Curb/Gutter
 Sidewalk 5

Calculations

Item	Unit	Unit Cost	Quantity	Cost	Totals
Mainline Pavement					\$ -
2677	2677 Asphalt Milling	TON	\$ 75.00		\$ -
212	CL2 ASPH BASE 1.00D PG64-22	TON	\$ 115.00		\$ -
301	CL2 ASPH SURF 0.38D PG64-22	TON	\$ 120.00		\$ -
Concrete					\$ -
2721	2721 Remove Concrete Sidewalk	SY	\$ 223.00		\$ -
2720	2720 Concrete Sidewalk	SY	\$ 272.00		\$ -
3288	3288 Sidewalk Ramp Type 2	Ea	\$ 5,000.00		\$ -
1810	1810 Curb & Gutter	LF	\$ 60.00		\$ -
Other					\$ 180,000
	Street Lights for existing Poles	Ea	\$ 5,000.00	30	\$ 150,000
	Clearing & Grubbing < 1 acre	LS	\$ 20,000.00	1	\$ 20,000
6542	Signs-All Inclusive	Ea	\$ 500.00	20	\$ 10,000
Parametric					\$ 91,800
	DRAINAGE	LS	20%		\$ 36,000
2569	MOBILIZATION/DEMobilIZATION	LS	3%		\$ 5,400
2650	MAINTAIN & CONTROL TRAFFIC	LS	3%		\$ 5,400
	MISCELLANEOUS	LS	25%		\$ 45,000
Contingency					\$ 81,540
	Contingency	LS	30%		\$ 81,540
Escalation					\$ -
	Factored for Future Implementation	LS			\$ -
Construction					\$ 353,340

Concept: **9 Clinton Signing/Striping**
 Description: Various safety countermeasures

BMP:
 EMP:
 Length (ft): 2200

	<u>Length</u>	<u>Width (PR)</u>	<u>Notes</u>
Bridge(s)			
Mainline/Paved			
Full Depth Pavement			
Surface	2200		
Curb/Gutter	2200		
Sidewalk	2200		

Calculations

Item	Unit	Unit Cost	Quantity	Cost	Totals
Mainline Pavement					\$ -
2677	2677 Asphalt Milling	TON	\$ 75.00		\$ -
212	CL2 ASPH BASE 1.00D PG64-22	TON	\$ 115.00		\$ -
301	CL2 ASPH SURF 0.38D PG64-22	TON	\$ 120.00		\$ -
Concrete					\$ 108,800
2720	2720 Concrete Sidewalk	SY	\$ 272.00	400	\$ 108,800
3288	3288 Sidewalk Ramp Type 2	Ea	\$ 5,000.00		\$ -
1810	1810 Curb & Gutter	LF	\$ 60.00		\$ -
					\$ -
Other					\$ 267,896
	Remove/Replace Signs	EA	\$ 1,000.00	1	\$ 1,000
6543	LED Flashing Beacon	EA	\$ 6,000.00	1	\$ 6,000
	Relocate signal poles	EA	\$ 7,000.00	2	\$ 14,000
	Lights at Intersections	EA	\$ 20,000.00	8	\$ 160,000
	Signs-All Inclusive	Ea	\$ 500.00	2	\$ 1,000
	Ped Flashers	Ea	\$ 5,000.00	8	\$ 40,000
	Pave Striping - thermo 12 in	LF	\$ 7.00	800	\$ 5,600
	RRFB	System	\$ 30,000.00	1	\$ 30,000
6542	PAVE STRIPING-THERMO-6 IN	LF	\$ 1.17	8,800	\$ 10,296
Parametric					\$ 192,115
	DRAINAGE	LS	20%		\$ 75,339
2569	MOBILIZATION/DEMOBILIZATION	LS	3%		\$ 11,301
2650	MAINTAIN & CONTROL TRAFFIC	LS	3%		\$ 11,301
	MISCELLANEOUS	LS	25%		\$ 94,174
Contingency					\$ 170,643
	Contingency	LS	30%		\$ 170,643
Escalation					\$ -
	Factored for Future Implementation	LS			\$ -
Construction					\$ 739,454

Concept: **10 Fulton KY 924 (Safety)**
 Description: Add solar LED advanced signs/stripping/lights to intersection (3-way)
3-way Stop controlled
 BMP: 4.500
 EMP:
 Length (ft):

Length Width (PR) Notes
 Bridge(s)
 Mainline/Paved
 Full Depth Pavement
 Surface
 Curb/Gutter
 Sidewalk

Calculations

Item	Unit	Unit Cost	Quantity	Cost	Totals
Mainline Pavement					\$ -
2677	2677 Asphalt Milling	TON	\$ 75.00		\$ -
212	CL2 ASPH BASE 1.00D PG64-22	TON	\$ 115.00		\$ -
301	CL2 ASPH SURF 0.38D PG64-22	TON	\$ 120.00		\$ -
Concrete					\$ -
2721	2721 Remove Concrete Sidewalk	SY	\$ 223.00		\$ -
2720	2720 Concrete Sidewalk	SY	\$ 272.00		\$ -
3288	3288 Sidewalk Ramp Type 2	Ea	\$ 5,000.00		\$ -
1810	1810 Curb & Gutter	LF	\$ 60.00		\$ -
Other					\$ 140,500
	Lights at Intersections	EA	\$ 20,000.00	3	\$ 60,000
	Solar LED Advanced Warning Signs	Set	\$ 20,000.00	4	\$ 80,000
6542	Signs-All Inclusive	Ea	\$ 500.00	1	\$ 500
Parametric					\$ 71,655
	DRAINAGE	LS	20%		\$ 28,100
2569	MOBILIZATION/DEMobilIZATION	LS	3%		\$ 4,215
2650	MAINTAIN & CONTROL TRAFFIC	LS	3%		\$ 4,215
	MISCELLANEOUS	LS	25%		\$ 35,125
Contingency					\$ 63,647
	Contingency	LS	30%		\$ 63,647
Escalation					\$ -
	Factored for Future Implementation	LS			\$ -
Construction					\$ 275,802

Concept: **11 Fulton KY 94 Safety**
 Description: Add solar LED advanced signs/stripping/lights to intersection (4-way)
4-way stop controlled
 BMP: 2.500
 EMP:
 Length (ft):

Length Width (PR) Notes
 Bridge(s)
 Mainline/Paved
 Full Depth Pavement
 Surface
 Curb/Gutter
 Sidewalk

Calculations

Item	Unit	Unit Cost	Quantity	Cost	Totals
Mainline Pavement					\$ -
2677	2677 Asphalt Milling	TON	75.00	\$ -	
212	CL2 ASPH BASE 1.00D PG64-22	TON	115.00	\$ -	
301	CL2 ASPH SURF 0.38D PG64-22	TON	120.00	\$ -	
Concrete					\$ -
2721	2721 Remove Concrete Sidewalk	SY	223.00	\$ -	
2720	2720 Concrete Sidewalk	SY	272.00	\$ -	
3288	3288 Sidewalk Ramp Type 2	Ea	5,000.00	\$ -	
1810	1810 Curb & Gutter	LF	60.00	\$ -	
Other					\$ 200,000
	Lights at Intersections	EA	20,000.00	4 \$ 80,000	
	Solar LED Advanced Warning Signs	Set	20,000.00	6 \$ 120,000	
6542	Signs-All Inclusive	Ea	500.00	\$ -	
Parametric					\$ 102,000
	DRAINAGE	LS	20%	\$ 40,000	
2569	MOBILIZATION/DEMobilIZATION	LS	3%	\$ 6,000	
2650	MAINTAIN & CONTROL TRAFFIC	LS	3%	\$ 6,000	
	MISCELLANEOUS	LS	25%	\$ 50,000	
Contingency					\$ 90,600
	Contingency	LS	30%	\$ 90,600	
Escalation					\$ -
	Factored for Future Implementation	LS		\$ -	
Construction					\$ 392,600

Concept	Unit	Unit Cost	Concept A		Concept B-1 Roundabout		Concept B-1 T		Concept B-2	
			Unit	Total	Unit	Total	Unit	Total	Unit	Total
Excavation (less than 300K CY)	CU YD	\$47.00	16,525	\$776,657.57	3,073	\$144,434	7,482	\$351,656	10,967	\$515,471.38
Excavation(over 300K CY)	CU YD	\$6.00		\$0.00						
Embankment (less than 5k CY)	CU YD	\$85.00		\$0.00		\$0		\$0		\$0.00
Embankment (over 5k CY)	CU YD	\$15.00	20,433	\$306,502.30	316,103	\$4,741,549	205,897	\$3,088,451	471,919	\$7,078,792.15
Asphalt Surface	Ton	\$120.00	3420	\$410,400.00	19,912.57	\$2,389,508	1,089	\$130,733	1,616	\$193,914.95
Asphalt Base	Ton	\$115.00	15,959	\$1,835,285.00		\$0		\$0		\$0.00
Asphalt Base - B & G ONLY	Ton	\$108.00			22,999.32	\$2,483,926	5,084	\$549,078	7,541	\$814,442.79
Crushed Stone Base	Ton	\$30.00	23,836	\$715,080.00	27,271.80	\$818,154	7,593	\$227,792	11,263	\$337,882.11
Structures	SQ FT	\$200	0	\$0.00	0	\$0	0	\$0	0	\$0.00
Curb & Gutter	LF	\$60	0	\$0.00	402	\$24,112	100	\$6,000	0	\$0.00
Sidewalk	SQ YD	\$272.00	0	\$0.00	444	\$120,900	151	\$41,204	0	
Item total				\$3,267,267.30		\$10,578,149		\$4,043,259		\$8,425,032.01
Drainage	LS	20%		\$653,453.46		\$2,115,629.87		\$808,651.72		\$1,685,006.40
Mobilization/Demobilization	LS	3%		\$98,018.02		\$317,344.48		\$121,297.76		\$252,750.96
MOT	LS	3%		\$98,018.02		\$317,344.48		\$121,297.76		\$252,750.96
Miscellaneous	LS	25%		\$816,816.82		\$2,644,537.34		\$1,010,814.65		\$2,106,258.00
Subtotal 2				\$4,933,573.62		\$15,973,005.55		\$6,105,320.48		\$12,721,798.33
Contingency	LS	30%		\$1,480,072.09		\$4,791,901.67		\$1,831,596.14		\$3,816,539.50
Total Construction Cost				\$6,413,646		\$20,764,907		\$7,936,917		\$16,538,338

Concept	Concept C			Concept D		Concept E		
	Unit	Unit Cost	Unit	Total	Unit	Total	Unit	Total
Excavation (less than 300K CY)	CU YD	\$47.00	896	\$42,105.27	33,336	\$1,566,781.90	18,822	\$884,638.71
Excavation(over 300K CY)	CU YD	\$6.00		\$0.00				
Embankment (less than 5k CY)	CU YD	\$85.00		\$0.00	2,298	\$195,301.65		\$0.00
Embankment (over 5k CY)	CU YD	\$15.00	94231	\$1,413,460.32		\$0.00	6,339	\$95,090.75
Asphalt Surface	Ton	\$120.00	1070	\$128,400.00	1,240	\$148,800.00	1806	\$216,720.00
Asphalt Base	Ton	\$115.00	4,995	\$574,425.00	5,787	\$665,505.00	8,428	\$969,220.00
Asphalt Base - B & G ONLY	Ton	\$108.00						
Crushed Stone Base	Ton	\$30.00	7,460	\$223,800.00	8,643	\$259,290.00	12,587	\$377,610.00
Structures	SQ FT	\$200	0	\$0.00	0	\$0.00	0	\$0.00
Curb & Gutter	LF	\$60	0	\$0.00	0	\$0.00	0	\$0.00
Sidewalk	SQ YD	\$272.00	0	\$0.00	1,157	\$314,810.11	0	\$0.00
Item total				\$2,340,085.32		\$2,955,187.01		\$2,448,188.71
Drainage	LS	20%		\$468,017.06		\$591,037.40		\$489,637.74
Mobilization/Demobilization	LS	3%		\$70,202.56		\$88,655.61		\$73,445.66
MOT	LS	3%		\$70,202.56		\$88,655.61		\$73,445.66
Miscellaneous	LS	25%		\$585,021.33		\$738,796.75		\$612,047.18
Subtotal 2				\$3,533,528.84		\$4,462,332.39		\$3,696,764.95
Contingency	LS	30%		\$1,060,058.65		\$1,338,699.72		\$1,109,029.49
Total Construction Cost				\$4,593,587		\$5,801,032		\$4,805,794

Concept	Unit	Unit Cost	Concept F1		Concept F2		Concept F3		Concept F4		Concept F5	
			Unit	Total	Unit	Total	Unit	Total	Unit	Total	Unit	Total
Excavation (less than 300K CY)	CU YD	\$47.00	22,568	\$1,060,701	9,450	\$444,158.85	24,815	\$1,166,287.46	39,449.00	\$1,854,102.80	89,840	\$4,222,480.00
Excavation(over 300K CY)	CU YD	\$6.00										
Embankment (less than 5k CY)	CU YD	\$85.00		\$0	2,348	\$199,579.52		\$0.00		\$0.00		\$0.00
Embankment (over 5k CY)	CU YD	\$15.00	108,984	\$1,634,756		\$0.00	83,666	\$1,254,995.98	75,526.28	\$1,132,894.25	79,981	\$1,199,715.00
Asphalt Surface	Ton	\$120.00	10,100	\$1,212,000	1,500	\$180,000.00	7,800	\$936,000.00	13,800.00	\$1,656,000.00	16,200	\$1,944,000.00
Asphalt Base	Ton	\$115.00	18,200	\$2,093,000	2,700	\$310,500.00	14,300	\$1,644,500.00	24,900.00	\$2,863,500.00	29,200	\$3,358,000.00
Asphalt Base - B & G ONLY	Ton	\$108.00										
Crushed Stone Base	Ton	\$30.00	10,600	\$318,000	3,900	\$117,000.00	19,600	\$588,000.00	42,400.00	\$1,272,000.00	48,600	\$1,458,000.00
Structures	SQ FT	\$200	0	\$0.00	0	\$0.00	38,118	\$7,623,657.22	24,484.08	\$4,896,815.74	4,422	\$884,457.68
Curb & Gutter	LF	\$60	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Sidewalk	SQ YD	\$272.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Item total				\$5,257,756		\$1,051,658.85		\$12,047,153.20		\$11,821,209.99		\$11,866,937.68
Drainage	LS	20%		\$1,051,551.13		\$210,331.77		\$2,409,430.64		\$2,364,242.00		\$2,373,387.54
Mobilization/Demobilization	LS	3%		\$157,732.67		\$31,549.77		\$361,414.60		\$354,636.30		\$356,008.13
MOT	LS	3%		\$157,732.67		\$31,549.77		\$361,414.60		\$354,636.30		\$356,008.13
Miscellaneous	LS	25%		\$1,314,438.91		\$262,914.71		\$3,011,788.30		\$2,955,302.50		\$2,966,734.42
Subtotal 2				\$7,939,211.01		\$1,588,004.87		\$18,191,201.33		\$17,850,027.08		\$17,919,075.90
Contingency	LS	30%		\$2,381,763.30		\$476,401.46		\$5,457,360.40		\$5,355,008.12		\$5,375,722.77
Total Construction Cost				\$10,320,974		\$2,064,406		\$23,648,562		\$23,205,035		\$23,294,799

Concept	Unit	Unit Cost	Concept F6		Concept F7		Concept F8		Concept F9	
			Unit	Total	Unit	Total	Unit	Total	Unit	Total
Excavation (less than 300K CY)	CU YD	\$47.00	13,847	\$650,798.26	105,980	\$4,981,082.43	79,551	\$3,738,888.88	47,957	\$2,253,999
Excavation(over 300K CY)	CU YD	\$6.00								
Embankment (less than 5k CY)	CU YD	\$85.00		\$0.00		\$0.00		\$0.00		\$0
Embankment (over 5k CY)	CU YD	\$15.00	12,735	\$191,019.83	85,638	\$1,284,569.53	60,298	\$904,469.82	44,840	\$672,595
Asphalt Surface	Ton	\$120.00	3,400	\$408,000.00	20,700	\$2,484,000.00	21,900	\$2,628,000.00	11,400	\$1,368,000
Asphalt Base	Ton	\$115.00	5,900	\$678,500.00	37,300	\$4,289,500.00	39,700	\$4,565,500.00	24,400	\$2,806,000
Asphalt Base - B & G ONLY	Ton	\$108.00								
Crushed Stone Base	Ton	\$30.00	11,400	\$342,000.00	62,800	\$1,884,000.00	69,300	\$2,079,000.00	68,000	\$2,040,000
Structures	SQ FT	\$200	0	\$0.00	46,349	\$9,269,873.54	15,458	\$3,091,524.68	0	\$0
Curb & Gutter	LF	\$60	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0
Sidewalk	SQ YD	\$272.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0
Item total				\$2,079,298.26		\$22,908,455.97		\$16,102,914		\$8,467,999
Drainage	LS	20%		\$415,859.65		\$4,581,691.19		\$3,220,582.71		\$1,693,599.84
Mobilization/Demobilization	LS	3%		\$62,378.95		\$687,253.68		\$483,087.41		\$254,039.98
MOT	LS	3%		\$62,378.95		\$687,253.68		\$483,087.41		\$254,039.98
Miscellaneous	LS	25%		\$519,824.56		\$5,727,113.99		\$4,025,728.39		\$2,116,999.80
Subtotal 2				\$3,139,740.37		\$34,591,768.51		\$24,315,399.48		\$12,786,678.82
Contingency	LS	30%		\$941,922.11		\$10,377,530.55		\$7,294,619.84		\$3,836,003.65
Total Construction Cost				\$4,081,662		\$44,969,299		\$31,610,019		\$16,622,682

Concept	Unit	Unit Cost	Concept G1		Concept G2		Concept G3		Concept G4		Concept G5	
			Unit	Total	Unit	Total	Unit	Total	Unit	Total	Unit	Total
Excavation (less than 300K CY)	CU YD	\$47.00	26,187	\$1,230,776.85	9,810	\$461,071.25	31,525	\$1,481,666.78	36,337	\$1,707,826.71	77,705	\$3,652,149.90
Excavation(over 300K CY)	CU YD	\$6.00										
Embankment (less than 5k CY)	CU YD	\$85.00		\$0.00	1,614	\$137,185.42		\$0.00		\$0.00		\$0.00
Embankment (over 5k CY)	CU YD	\$15.00	104,962	\$1,574,426.75		\$0.00	80,208	\$1,203,120.04	88,857	\$1,332,861.26	111,925	\$1,678,867.70
Asphalt Surface	Ton	\$120.00	8,500	\$1,020,000.00	1,300	\$156,000.00	6,600	\$792,000.00	11,700	\$1,404,000.00	13,900	\$1,668,000.00
Asphalt Base	Ton	\$115.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
Asphalt Base - B & G ONLY	Ton	\$108.00	18,200	\$1,965,600.00	2,700	\$291,600.00	14,300	\$1,544,400.00	24,900	\$2,689,200.00	29,200	\$3,153,600.00
Crushed Stone Base	Ton	\$30.00	43,000	\$1,290,000.00	9,200	\$276,000.00	35,200	\$1,056,000.00	71,900	\$2,157,000.00	83,900	\$2,517,000.00
Structures	SQ FT	\$200	0	\$0.00	0	\$0.00	38,118	\$7,623,657.22	24484.08	\$4,896,815.74	4,422	\$884,457.68
Curb & Gutter	LF	\$60	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	
Sidewalk	SQ YD	\$272.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	
Item total				\$5,850,026.75		\$1,184,671.25		\$12,219,177.26		\$12,479,877.00		\$9,901,925.38
Drainage	LS	20%		\$1,170,005.35		\$236,934.25		\$2,443,835.45		\$2,495,975.40		\$1,980,385.08
Mobilization/Demobilization	LS	3%		\$175,500.80		\$35,540.14		\$366,575.32		\$374,396.31		\$297,057.76
MOT	LS	3%		\$351,001.60		\$71,080.28		\$733,150.64		\$748,792.62		\$594,115.52
Miscellaneous	LS	25%		\$1,462,506.69		\$296,167.81		\$3,054,794.32		\$3,119,969.25		\$2,475,481.34
Subtotal 2				\$9,009,041.19		\$1,824,393.73		\$18,817,532.99		\$19,219,010.57		\$15,248,965.08
Contingency	LS	30%		\$2,702,712.36		\$547,318.12		\$5,645,259.90		\$5,765,703.17		\$4,574,689.53
Total Construction Cost				\$11,711,754		\$2,371,712		\$24,462,793		\$24,984,714		\$19,823,655

Concept	Unit	Unit Cost	Concept G6		Concept G7		Concept G8		Concept G9	
			Unit	Total	Unit	Total	Unit	Total	Unit	Total
Excavation (less than 300K CY)	CU YD	\$47.00	12,344	\$580,172.03	122,715	\$5,767,588.45	88,930	\$4,179,723.21	43,956	\$2,065,923.03
Excavation(over 300K CY)	CU YD	\$6.00								\$0.00
Embankment (less than 5k CY)	CU YD	\$85.00		\$0.00		\$0.00		\$0.00		\$0.00
Embankment (over 5k CY)	CU YD	\$15.00	22,602	\$339,023.13	104,560	\$1,568,402.95	106,146	\$1,592,184.87	52,180	\$782,693.05
Asphalt Surface	Ton	\$120.00	2,900	\$348,000.00	17,400	\$2,088,000.00	18,600	\$2,232,000.00	11,300	\$1,356,000.00
Asphalt Base	Ton	\$115.00		\$0.00		\$0.00		\$0.00		\$0.00
Asphalt Base - B & G ONLY	Ton	\$108.00	5,900	\$637,200.00	37,300	\$4,028,400.00	39,600	\$4,276,800.00	24,400	\$2,635,200.00
Crushed Stone Base	Ton	\$30.00	19,100	\$573,000.00	107,800	\$3,234,000.00	119,200	\$3,576,000.00	69,400	\$2,082,000.00
Structures	SQ FT	\$200	0	\$0.00	46,349	\$9,269,873.54	15,458	\$3,091,524.68	12,240	\$2,448,000.00
Curb & Gutter	LF	\$60	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Sidewalk	SQ YD	\$272.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Item total				\$1,897,223.13		\$24,387,861.99		\$14,768,509.55		\$9,303,893.05
Drainage	LS	20%		\$379,444.63		\$4,877,572.40		\$2,953,701.91		\$1,860,778.61
Mobilization/Demobilization	LS	3%		\$56,916.69		\$731,635.86		\$443,055.29		\$279,116.79
MOT	LS	3%		\$113,833.39		\$1,463,271.72		\$886,110.57		\$558,233.58
Miscellaneous	LS	25%		\$474,305.78		\$6,096,965.50		\$3,692,127.39		\$2,325,973.26
Subtotal 2				\$2,921,723.62		\$37,557,307.47		\$22,743,504.70		\$14,327,995.30
Contingency	LS	30%		\$876,517.09		\$11,267,192.24		\$6,823,051.41		\$4,298,398.59
Total Construction Cost				\$3,798,241		\$48,824,500		\$29,566,556		\$18,626,394

Concept			Concept H1		Concept H2		Concept H3		Concept H4		Concept H5	
	Unit	Unit Cost	Unit	Total	Unit	Total	Unit	Total	Unit	Total	Unit	Total
Excavation (less than 300K CY)	CU YD	\$47.00	16,173	\$760,127.16	0	\$0.00	15,024	\$706,134.81	49,399	\$2,321,739.06	88,356	\$4,152,744.22
Excavation(over 300K CY)	CU YD	\$6.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00
Embankment (less than 5k CY)	CU YD	\$85.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00
Embankment (over 5k CY)	CU YD	\$15.00	31,940	\$479,100.96	0	\$0.00	35,845	\$537,675.34	40,840	\$612,603.59	55,736	\$836,044.38
Asphalt Surface	Ton	\$120.00	4,734	\$568,080.00	0	\$0.00	4,125	\$495,000.00	9,917	\$1,190,040.00	11,870	\$1,424,400.00
Asphalt Base	Ton	\$115.00	9,871	\$1,135,165.00	0	\$0.00	9,560	\$1,099,400.00	23,422	\$2,693,530.00	28,324	\$3,257,260.00
Asphalt Base - B & G ONLY	Ton	\$108.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00
Crushed Stone Base	Ton	\$30.00	14,743	\$442,290.00	0	\$0.00	14,278	\$428,340.00	34,981	\$1,049,430.00	42,302	\$1,269,060.00
Structures	SQ FT	\$200	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	4,035	\$807,074.12
Curb & Gutter	LF	\$60	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Sidewalk	SQ YD	\$272.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Item total				\$2,624,635.96		\$0.00		\$2,560,415.34		\$7,254,739.06		\$10,910,538.34
Drainage	LS	20%		\$524,927.19		\$0.00		\$512,083.07		\$1,450,947.81		\$2,182,107.67
Mobilization/Demobilization	LS	3%		\$78,739.08		\$0.00		\$76,812.46		\$217,642.17		\$327,316.15
MOT	LS	3%		\$78,739.08		\$0.00		\$76,812.46		\$217,642.17		\$327,316.15
Miscellaneous	LS	25%		\$656,158.99		\$0.00		\$640,103.84		\$1,813,684.76		\$2,727,634.59
Subtotal 2				\$3,963,200.30		\$0.00		\$3,866,227.17		\$10,954,655.97		\$16,474,912.90
Contingency	LS	30%		\$1,188,960.09		\$0.00		\$1,159,868.15		\$3,286,396.79		\$4,942,473.87
Total Construction Cost				\$5,152,160		\$0		\$5,026,095		\$14,241,053		\$21,417,387

Concept	Unit	Unit Cost	Concept H6		Concept H7		Concept H8		Concept H9		Concept Y		Concept X	
			Unit	Total	Unit	Total	Unit	Total	Unit	Total	Unit	Total	Unit	Total
Excavation (less than 300K CY)	CU YD	\$47.00	10,199	\$479,362.04	107,411	\$5,048,314.46	88,808	\$4,173,978.94	50,591	\$2,377,761.54	909	\$42,741.19	2,026	\$95,228.28
Excavation(over 300K CY)	CU YD	\$6.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
Embankment (less than 5k CY)	CU YD	\$85.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
Embankment (over 5k CY)	CU YD	\$15.00	8,472	\$127,086.55	44,743	\$671,147.73	33,109	\$496,637.52	15,272	\$229,076.27	7,874	\$118,106.69	50,201	\$753,021.14
Asphalt Surface	Ton	\$120.00	2,518	\$302,160.00	14,894	\$1,787,280.00	15,356	\$1,842,720.00	9,300	\$1,116,000.00	658	\$78,960.00	3,091	\$370,920.00
Asphalt Base	Ton	\$115.00	6,089	\$700,235.00	35,365	\$4,066,975.00	35,411	\$4,072,265.00	21,326	\$2,452,490.00	3,073	\$353,395.00	14,425	\$1,658,875.00
Asphalt Base - B & G ONLY	Ton	\$108.00		\$0.00		\$0.00		\$0.00	0	\$0.00		\$0.00		\$0.00
Crushed Stone Base	Ton	\$30.00	9,094	\$272,820.00	52,817	\$1,584,510.00	52,887	\$1,586,610.00	31,850	\$955,500.00	4,589	\$137,670.00	21,543	\$646,290.00
Structures	SQ FT	\$200	0	\$0.00	34,442	\$6,888,400.58	2,231	\$446,287.94		\$0.00	2,561	\$512,224.18	28,778	\$5,755,546.94
Curb & Gutter	LF	\$60	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Sidewalk	SQ YD	\$272.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Item total				\$1,754,577.04		\$19,375,480.04		\$12,121,861.88		\$6,901,751.54		\$1,200,355.87		\$9,184,653.08
Drainage	LS	20%		\$350,915.41		\$3,875,096.01		\$2,424,372.38		\$1,380,350.31		\$240,071.17		\$1,836,930.62
Mobilization/Demobilization	LS	3%		\$52,637.31		\$581,264.40		\$363,655.86		\$207,052.55		\$36,010.68		\$275,539.59
MOT	LS	3%		\$52,637.31		\$581,264.40		\$363,655.86		\$207,052.55		\$36,010.68		\$275,539.59
Miscellaneous	LS	25%		\$438,644.26		\$4,843,870.01		\$3,030,465.47		\$1,725,437.88		\$300,088.97		\$2,296,163.27
Subtotal 2				\$2,649,411.33		\$29,256,974.86		\$18,304,011.44		\$10,421,644.82		\$1,812,537.36		\$13,868,826.15
Contingency	LS	30%		\$794,823.40		\$8,777,092.46		\$5,491,203.43		\$3,126,493.45		\$543,761.21		\$4,160,647.85
Total Construction Cost				\$3,444,235		\$38,034,067		\$23,795,215		\$13,548,138		\$2,356,299		\$18,029,474

Concept: **Z Bayou de Chien Flood Mitigation Measures**

Description: Create flat bottom ditch on both sides
 Line ditches with Turf Mat
 Place cross drains for overflow - use flowable fill
 Clean out both culverts

BMP:

EMP:

Length (ft): 1800

Length Width (PR) Notes
 Bridge(s)
 Mainline/Paved
 Full Depth Pavement
 Surface
 Curb/Gutter
 Sidewalk

Calculations

Item	Unit	Unit Cost	Quantity	Cost	Totals
Mainline Pavement					\$ -
2677	2677 Asphalt Milling	TON	\$ 75.00		\$ -
212	CL2 ASPH BASE 1.00D PG64-22	TON	\$ 140.00		\$ -
301	CL2 ASPH SURF 0.38D PG64-22	TON	\$ 145.00		\$ -
Concrete					\$ 24,909
2220	FLOWABLE FILL	CUYD	\$ 490.75	23	\$ 11,451
492	CULVERT PIPE-24 IN EQUIV	LF	\$ 168.23	80	\$ 13,458
					\$ -
					\$ -
					\$ -
Other					\$ 743,040
20597EC	DITCH EXCAVATION	CUYD	\$25	16,000	\$ 392,960
23275EN11F	TURF REINFORCEMENT MAT 2	SQYD	\$26	12,000	\$ 310,080
20465EC	Clean Culvert 4x8x30 RCBC	LS	\$15,000	1	\$ 15,000
20465EC	Clean Culvert Dbl Barrel (?x12x20)	LS	\$25,000	1	\$ 25,000
Parametric					\$ 391,654
	DRAINAGE	LS	20%		\$ 153,590
2569	MOBILIZATION/DEMOBILIZATION	LS	3%		\$ 23,038
2650	MAINTAIN & CONTROL TRAFFIC	LS	3%		\$ 23,038
	MISCELLANEOUS	LS	25%		\$ 191,987
Contingency					\$ 347,881
	Contingency	LS	30%		\$ 347,881
Escalation					\$ -
	Factored for Future Implementation	LS			\$ -
Construction					\$ 1,507,484