Appendix I **Project Cost Estimates**

Alternative Name PCMS-2

Problem Description Structure flooding on Poplar Creek and Lord's Park Tributary.

Strategy Construct new levee, improve channel for 1,700 feet, replace structures.

District Minimum
Criteria for Funding:
Recommended

Met
Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Embankment construction, grading and restoration: Additional fill	yd3	10000		\$138,800.00	\$0	\$0	Levee construction assuming 6 ft height, 8 ft top width, 3:1 side slopes, and a length of 1700 feet.
Embankment construction, grading and restoration: Compaction of fill	yd3	10000	\$5.34	\$53,400.00	\$0	\$0	1,00 100.
Embankment construction, grading and restoration: Material hauled from offsite	yd3	10000	\$10.68	\$106,800.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	8200	\$11.75	\$96,350.00	\$0	\$0	Assumed 130 ft2 per foot, length equals 1700 feet (8185 yd3).
Channel treatment: Soil stabilization and vegetative cover	yd2	9000	\$13.88	\$124,920.00	\$116,174	\$29,912	
Pump Station: 10ac-ft per day interior drainage	each	3	\$800,000.00	2,400,000.00	\$2,231,963	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	850	\$148.47	\$126,199.50	\$117,364	\$0	Access Road. Assume 1-lane so do half of distance.
Channel treatment: Excavation	yd3	2100	\$10.68	\$22,428.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	2100	\$11.75	\$24,675.00	\$0	\$0	
Bridge: Bridge COnstruction (Medium Complexity)	SF	8550	\$300.00	2,565,000.00	\$2,385,411	\$0	\$200-\$400 per SF - Assume 300 for piers and dealing with water.
Channel treatment: Soil stabilization and vegetative cover	yd2	500	\$13.88	\$6,940.00	\$6,454	\$1,662	<i>3</i>
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	600	\$148.47	\$89,082.00	\$82,845	\$0	Re-paving for the bridge (assume double width).
Channel treatment: Excavation	yd3	64000	\$10.68	\$683,520.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	64000	\$11.75	\$752,000.00	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	48000	\$13.88	\$666,240.00	\$619,593	\$159,533	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	350	\$148.47	\$51,964.50	\$48,326	\$0	Pave new road for Kirk Ave., Kramer St., and Getty St.
Bridge: Bridge COnstruction (Medium Complexity)	SF	5719	\$300.00	1,715,700.00	\$1,595,575	\$0	\$200-\$400 per SF-Assume 300 for piers and dealing with water.
Channel treatment: Excavation	yd3	2000	\$10.68	\$21,360.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	2000	\$11.75	\$23,500.00	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	650	\$13.88	\$9,022.00	\$8,390	\$2,160	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	1f	150	\$148.47	\$22,270.50	\$20,711	\$0	Re-pave for new bridge.

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name PCMS-2

Problem Description Structure flooding on Poplar Creek and Lord's Park Tributary.

Strategy Construct new levee, improve channel for 1,700 feet, replace structures.

District Minimum
Criteria for Funding:
Recommended

Met
Yes

	T T •4	0 "	H 11 C 1	D C (Maint. Cost	Replacement Cost	
Channel treatment: Excavation	Unit yd3	Quantity 500	Unit Cost \$10.68	Base Cost \$5,340.00	\$0	\$0	Notes/Issues Excavate additional
Channel treatment: Material to be hauled offsite	yd3	500	\$11.75	\$5,875.00	\$0	\$0	channel. Excavate additional channel.
Embankment construction, grading and restoration: Material hauled from offsite	yd3	10000	\$10.68	\$106,800.00	\$0	\$0	Raise the IL 25 roadway.
Embankment construction, grading and restoration: Additional fill	yd3	10000	\$13.88	\$138,800.00	\$0	\$0	Raise the IL 25 roadway.
Embankment construction, grading and restoration: Compaction of fill	yd3	10000	\$5.34	\$53,400.00	\$0	\$0	Raise the IL 25 roadway.
Bridge: Bridge Contruction (High Complexity)	SF	5185	\$400.00	2,074,000.00	\$1,928,788	\$0	\$200-\$400 per SF - Assume 400 for piers and dealing with water.
Channel treatment: Soil stabilization and vegetative cover	yd2	3000	\$13.88	\$41,640.00	\$38,725	\$9,971	C
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1000	\$148.47	\$148,470.00	\$138,075	\$0	Re-paving for the bridge (assume that this will raise the bridge deck too).
Channel treatment: Excavation	yd3	1000	\$10.68	\$10,680.00	\$0	\$0	Excavate additional channel.
Channel treatment: Material to be hauled offsite	yd3	1000	\$11.75	\$11,750.00	\$0	\$0	Excavate additional channel.
Bridge: Railroad Bridge Construction	sf	2231	\$1,305.00	2,911,455.00	\$2,707,609	\$0	97-ft by 23-ft bridge deck.
Channel treatment: Soil stabilization and vegetative cover	yd2	425	\$13.88	\$5,899.00	\$5,486	\$1,413	
Concrete: Cast in place	yd3	52	\$250.00	\$13,000.00	\$0	\$0	Headwall & Wingwalls.
Pipe under Pavement (City): Box Culvert (72 sf to 144 sf)	lf	153	\$2,500.00	\$382,500.00	\$355,719	\$0	3- 12ft x 6ft box culverts.
Channel treatment: Soil stabilization and vegetative cover	yd2	85	\$13.88	\$1,179.80	\$1,097	\$283	
Channel treatment: Material to be hauled offsite	yd3	200	\$11.75	\$2,350.00	\$0	\$0	
Channel treatment: Excavation	yd3	200	\$10.68	\$2,136.00	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	50	\$148.47	\$7,423.50	\$6,904	\$0	
Buyout: Property *	dollar	4830191	\$1.00	4,830,191.49	\$0	\$0	
Bridge: Bridge Demolition-Concrete Removal	cf	10000	\$25.00	\$250,000.00	\$0	\$0	
Bridge: Bridge Demolition-Concrete Removal	cf	16000	\$25.00	\$400,000.00	\$0	\$0	
Bridge: Bridge Demolition-Concrete Removal	cf	8100	\$25.00	\$202,500.00	\$0	\$0	
Bridge: Bridge Demolition-Concrete Removal	cf	18000	\$25.00	\$450,000.00	\$0	\$0	

PCMS-2 **Alternative Name**

Structure flooding on Poplar Creek and Lord's Park Tributary. **Problem Description**

Construct new levee, improve channel for 1,700 feet, replace structures. Strategy

District Minimum **Criteria for Funding:** Recommended

Met

Yes

	Unit	Quantity	Unit Cost	Base Cos	Maint. t Cost	Replacement Cost	Notes/Issues
* Indicates item excluded from subtotal (e.g. la	and acquis	ition, buyout	s)				
Subtotal (direct costs) Utility Relocation Mobilization \ General Conditions			4 % 5%	\$16,925,370 \$677,015 \$846,268	\$12,415,208	\$204,934	
Subtotal with Percent Allowances Contingency Profit			30% 5%	\$18,448,653 \$5,534,596 \$1,199,162			
Probable Construction Cost Estimate				\$25,182,411			
Design Engineering, Geotechnical, and Construction Management			10%	\$2,518,241			
Property Acquisition Cost:				\$4,830,191			
Total Conceptual Cost Estimate				\$45,150,986			

Alternative Name PCMS-3

Problem Description Bank erosion on the Poplar Creek Mainstem south bank on Villa Avenue.

Strategy Stabilize 400' of bank with structural stabilization.

District Minimum
Criteria for Funding:
Recommended

Met
Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	415		\$243,750.25	\$226,684	\$58,367	Assume a 2x9 wall with a 5x2 toe. Re-bar not included in estimate. 400 foot length per discussion.
Channel treatment: Excavation	yd3	78	\$10.68	\$833.04	\$0	\$0	See backup calcs.
Channel treatment: Compaction	yd3	58	\$7.48	\$433.84	\$0	\$0	75% of excavation can be used as fill.
Channel treatment: Additional fill	yd3	101	\$13.88	\$1,401.88	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	693	\$13.88	\$9,618.84	\$8,945	\$2,303	Calculated the distance from top of gabions to backyard grade (15.6). (15.6 x 400/9).
Embankment construction, grading and restoration: Material hauled from offsite	yd3	19	\$10.68	\$202.92	\$0	\$0	
* Indicates item excluded from subtotal (e.g. la	ınd acquisi	tion, buyout	s)				
Subtotal (direct costs)				\$256,241	\$235,629	\$60,670	
Utility Relocation Mobilization \ General Conditions			4 % 5%	\$10,250 \$12,812			
Subtotal with Percent Allowances Contingency			30%	\$279,302 \$83,791			
Profit			5%	\$18,155			
Probable Construction Cost Estimate				\$381,248			
Design Engineering, Geotechnical, and Construction Management			10%	\$38,125			
Property Acquisition Cost:				\$0			
Total Conceptual Cost Estimate				\$715,672			

Alternative Name PCMS-4

Problem Description Bank erosion on the Poplar Creek Mainstem south bank, just north of Thorndale Dr.

Strategy Stabilize 400' with structural stabilization.

District Minimum
Criteria for Funding:
Recommended

Met
Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	415		\$243,750.25	\$226,684	\$58,367	Assume a 2x9 wall with a 5x2 toe. Re-bar not included in estimate. 400 foot length per discussion.
Channel treatment: Material to be hauled offsite	yd3	237	\$11.75	\$2,784.75	\$0	\$0	See backup calcs.
Channel treatment: Compaction	yd3	178	\$7.48	\$1,331.44	\$0	\$0	75% of excavation can be used as fill.
Channel treatment: Additional fill	yd3	414	\$13.88	\$5,746.32	\$0	\$0	592-147.
Channel treatment: Soil stabilization and vegetative cover	yd2	1129	\$13.88	\$15,670.52	\$14,573	\$3,752	Calculated the distance from top of gabions to backyard grade (25.4). (25.4 x 400/9).
Channel treatment: Material to be hauled offsite	yd3	59	\$11.75	\$693.25	\$0	\$0	
* Indicates item excluded from subtotal (e.g. la	nd acquisi	tion, buyout	s)				
Subtotal (direct costs) Utility Relocation Mobilization \ General Conditions			4 % 5%	\$269,977 \$10,799 \$13,499	\$241,257	\$62,119	
Subtotal with Percent Allowances Contingency			30%	\$294,274 \$88,282			
Profit			5%	\$19,128			
Probable Construction Cost Estimate				\$401,685			
Design Engineering, Geotechnical, and Construction Management			10%	\$40,168			
Property Acquisition Cost:				\$0			
Total Conceptual Cost Estimate				\$745,229			

Alternative Name PCMS-5

Problem Description Bank erosion on the Poplar Creek Mainstern west bank, next to Campus Drive.

Strategy Stabilize 450 feet of bank with structural stabilization.

District Minimum
Criteria for Funding:
Recommended

Met
Yes

					Maint.	Replacement	
	Unit	Quantity	Unit Cost	Base Cost	Cost	Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	467	\$587.35	\$274,292.45	\$255,088	\$65,680	Assume a 2x9 wall with a 5x2 toe. Re-bar not included in estimate. 450 foot length per discussion.
Channel treatment: Excavation	vd3	2667	\$10.68	\$28,483.56	\$0	\$0	See backup calcs.
Channel treatment: Compaction	yd3	200	\$7.48	\$1,496.00	\$0	\$0	75% of excavation can be used as fill.
Channel treatment: Additional fill	yd3	200	\$13.88	\$2,776.00	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	1270	\$13.88	\$17,627.60	\$16,393	\$4,221	Calculated the distance from top of gabions to backyard grade (25.4). Then 6 feet were added to for what was needed for grow areas for the gabion (30.7x450/9).
Channel treatment: Material to be hauled offsite	yd3	67	\$11.75	\$787.25	\$0	\$0	3
* Indicates item excluded from subtotal (e.g. la	ınd acquisi	tion, buyout	s)				
Subtotal (direct costs) Utility Relocation Mobilization \ General Conditions			4 % 5%	\$325,463 \$13,019 \$16,273	\$271,481	\$69,901	
Subtotal with Percent Allowances Contingency			30%	\$354,755 \$106,426			
Profit			5%	\$23,059			
Probable Construction Cost Estimate				\$484,240			
Design Engineering, Geotechnical, and Construction Management			10%	\$48,424			
Property Acquisition Cost:				\$0			
Total Conceptual Cost Estimate				\$874,046			

Alternative Name PCSH-1

Barrington Road overtopped in the 50- and 100-year events. **Problem Description**

Strategy Reconstruct Barrington Road culvert to eliminate road overtopping.

District Minimum Met **Criteria for Funding:** Yes Recommended

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacemen Cost	t Notes/Issues
Excavation, Structural (deep heavy soil & clay): Structural Excavation (12"-18" deep)	yd3	490	\$169.80	\$83,202.00	\$77,377	\$0	Structural excavation for new bridge. Includes removal of existing culvert.
Channel treatment: Material to be hauled offsite	yd3	490	\$11.75	\$5,757.50	\$0	\$0	
Bridge: Bridge Contruction (High Complexity)	SF	2800	\$400.00	1,120,000.00	\$1,041,583	\$0	28-ft wide bridge opening, 6-ft high bridge opening, 100-ft length.
Concrete: Cast in place	yd3	125	\$250.00	\$31,250.00	\$0	\$0	Vertical Headwall/Wingwalls
Channel treatment: Soil stabilization and vegetative cover	yd2	500	\$13.88	\$6,940.00	\$6,454	\$1,662	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	1f	300	\$148.47	\$44,541.00	\$41,422	\$0	4 lane road - assume 150 ft x 2 for the quantity.
* Indicates item excluded from subtotal (e.g. la	and acquis	ition, buyou	ts)				
Subtotal (direct costs) Utility Relocation			4 %	\$1,291,691 \$51,668 \$64,585	\$1,166,836	\$1,662	

Subtotal (direct costs) Utility Relocation Mobilization \ General Conditions	4 % 5%	\$1,291,691 \$51,668 \$64,585	\$1,166,836	\$1,662
Subtotal with Percent Allowances Contingency Profit	30% 5%	\$1,407,943 \$422,383 \$91,516		
Probable Construction Cost Estimate		\$1,921,842		
Design Engineering, Geotechnical, and Construction Management	10%	\$192,184		
Property Acquisition Cost:		\$0		
Total Conceptual Cost Estimate		\$3,282,524		

Alternative Name PCRR-1

Problem Description Golf Road (IL 58) overtopped in the 100-year event.

Strategy Increase culvert size under EJ&E Railroad to eliminate the backwater responsible for this problem.

District Minimum Met
Criteria for Funding:
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Excavation	yd3	100	\$10.68	\$1,068.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1500	\$11.75	\$17,625.00	\$0	\$0	
Excavation, Structural (deep heavy soil & clay): Structural Excavation (12"-18" deep)	yd3	1500	\$169.80	\$254,700.00	\$236,867	\$0	Structural Excavation for the open-cut construction.
Channel treatment: Sheet piling	yd2	450	\$303.28	\$136,476.00	\$0	\$32,680	Stabilize open cut construction.
Embankment construction, grading and restoration: Additional fill	yd3	1200	\$13.88	\$16,656.00	\$0	\$0	Backfill over pipe.
Embankment construction, grading and restoration: Compaction of fill	yd3	1200	\$5.34	\$6,408.00	\$0	\$0	Backfill over pipe.
Embankment construction, grading and restoration: Material hauled from offsite	yd3	1200	\$10.68	\$12,816.00	\$0	\$0	Backfill over pipe.
Pipe under Pavement (City): Box Culvert (72 sf to 144 sf)	lf	72	\$2,500.00	\$180,000.00	\$167,397	\$0	12x6 box culvert - 72 ft long
Concrete: Cast in place	yd3	38	\$250.00	\$9,500.00	\$0	\$0	12x6 box culvert headwalls/wingwalls
Channel treatment: Soil stabilization and vegetative cover	yd2	250	\$13.88	\$3,470.00	\$3,227	\$831	-
* Indicates item excluded from subtotal (e.g. la	and acquis	ition, buyout	ts)				
Subtotal (direct costs) Utility Relocation Mobilization \ General Conditions			4 % 5%	\$638,719 \$25,549 \$31,936	\$407,491	\$33,511	
Subtotal with Percent Allowances Contingency			30%	\$696,204 \$208,861			
Profit			5%	\$45,253			
Probable Construction Cost Estimate				\$950,318			
Design Engineering, Geotechnical,			10%	\$95,032			

\$0

\$1,486,352

Additional Comments

and Construction Management

Total Conceptual Cost Estimate

Property Acquisition Cost:

Alternative Name SCTD-1

Problem Description IL 62 is overtopped in the 5-, 10-, 25-, 50-, and 100-year events.

Strategy Reconstruct culverts and raise the roadway elevation.

District Minimum
Criteria for Funding:
Recommended

Met
Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Excavation, Structural (deep heavy soil & clay): Structural Excavation (12"-18" deep)	yd3	375	\$169.80	\$63,675.00	\$59,217	\$0	TVOICS/ISSUES
Channel treatment: Material to be hauled offsite	yd3	300	\$11.75	\$3,525.00	\$0	\$0	
Pipe under Pavement (City): Box Culvert (72 sf to 144 sf)	1f	90	\$2,500.00	\$225,000.00	\$209,247	\$0	Double 12x6 box culverts, 45 feet length.
Channel treatment: Soil stabilization and vegetative cover	yd2	4000	\$13.88	\$55,520.00	\$51,633	\$13,294	, 0
Embankment construction, grading and restoration: Additional fill	yd3	6000	\$13.88	\$83,280.00	\$0	\$0	Raising IL 62.
Embankment construction, grading and restoration: Compaction of fill	yd3	6000	\$5.34	\$32,040.00	\$0	\$0	Raising IL 62.
Embankment construction, grading and restoration: Material hauled from offsite	yd3	6000	\$10.68	\$64,080.00	\$0	\$0	Raising IL 62.
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1200	\$148.47	\$178,164.00	\$165,690	\$0	
* Indicates item excluded from subtotal (e.g. la	and acquis	ition, buyout	ts)				
Subtotal (direct costs) Utility Relocation Mobilization \ General Conditions			4 % 5%	\$705,284 \$28,211 \$35,264	\$485,786	\$13,294	
Subtotal with Percent Allowances Contingency			30%	\$768,760 \$230,628			
Profit			5%	\$49,969			
Probable Construction Cost Estimate				\$1,049,357			
Design Engineering, Geotechnical, and Construction Management			10%	\$104,936			
Property Acquisition Cost:				\$0			
Total Conceptual Cost Estimate				\$1,653,372			

Alternative Name BCMS-1

Problem Description Structure damage at commercial building and mobile homes.

Strategy Reconstruct the Bartlett Road culvert and the private driveway culvert. Provide 55 Ac-ft detention storage.

District Minimum
Criteria for Funding:
Recommended

Met
Yes

	Unit	0	Unit Cont	D C4	Maint. Cost	Replacement Cost	
Channel treatment: Excavation		Quantity 108900	Unit Cost	Base Cost	\$0	\$0	Notes/Issues
	yd3			1,163,052.00	* -	* *	Excavate storage area.
Channel treatment: Material to be hauled offsite	yd3	108900	\$11.75	1,279,575.00	\$0	\$0	Storage area material.
Channel treatment: Soil stabilization and vegetative cover	yd2	34350	\$13.88	\$476,778.00	\$443,396	\$114,166	Storage area.
Channel treatment: Dumped riprap	yd3	90	\$67.28	\$6,055.20	\$5,631	\$1,450	Storage area overflow.
Pipe in earth (city): 36 inches or less	lf	80	\$216.78	\$17,342.40	\$16,128	\$0	Storage area outlet.
Outlet structures (Headwall): 36 inches or less	each	2	\$2,600.34	\$5,200.68	\$4,837	\$0	Storage area outlet.
Concrete: Cast in place	yd3	36	\$250.00	\$9,000.00	\$0	\$0	10 x 6 Box Culvert - 130 feet long (Private Drive).
Pipe under pavement (city): Box culvert (51 to 60 ft2)	lf	130	\$661.03	\$85,933.90	\$79,917	\$0	10 x 6 Box Culvert - 130 feet long (Private Drive).
Pipe under pavement (city): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	124	\$608.70	\$75,478.80	\$70,194	\$0	2 - 6x8 box culverts - 62 feet long (Bartlett Rd)
Concrete: Cast in place	yd3	40	\$250.00	\$10,000.00	\$0	\$0	2 - 6x8 box culverts - 62 feet long(Bartlett Rd)
Buyout: Property *	dollar	188195	\$1.00	\$188,195.29	\$0	\$0	
* Indicates item excluded from subtotal (e.g. la	nd acquisi	tion, buyout	rs)				
Subtotal (direct costs)				\$3,128,416	\$620,104	\$115,616	
Utility Relocation Mobilization \ General Conditions			4 % 5%	\$125,137 \$156,421			
Subtotal with Percent Allowances Contingency			30%	\$3,409,973 \$1,022,992			
Profit			5%	\$221,648			
Probable Construction Cost Estimate				\$4,654,614			

10%

\$465,461

\$188,195

\$6,043,990

Additional Comments

Design Engineering, Geotechnical,

and Construction Management

Total Conceptual Cost Estimate

Property Acquisition Cost:

Alternative Name WBMS-3

Problem Description Structure flooding on Cornell Lane.

Strategy Improve 6,300' of channel and replace two crossings.

District Minimum
Criteria for Funding:
Recommended

Met
Yes

					Maint.	Replacement	
	Unit	Quantity	Unit Cost	Base Cost	Cost	Cost	Notes/Issues
Channel treatment: Excavation	yd3	19800	\$10.68	\$211,464.00	\$0	\$0	Channel excavation
Channel treatment: Material to be hauled offsite	yd3	19800	\$11.75	\$232,650.00	\$0	\$0	Channel excavation
Channel treatment: Soil stabilization and vegetative cover	yd2	41740	\$13.88	\$579,351.20	\$538,788	\$138,727	Channel excavation
Channel treatment: Excavation	yd3	24000	\$10.68	\$256,320.00	\$0	\$0	Comp-storage area
Channel treatment: Material to be hauled offsite	yd3	24000	\$11.75	\$282,000.00	\$0	\$0	Comp-storage area
Channel treatment: Soil stabilization and vegetative cover	yd2	11111	\$13.88	\$154,220.68	\$143,423	\$36,929	Comp-storage area
Bridge: Bridge Demolition-Concrete Removal	cf	950	\$25.00	\$23,750.00	\$0	\$0	Remove pedestrian bridge
Concrete: Cast in place	yd3	43	\$250.00	\$10,750.00	\$0	\$0	Syracuse Ln headwall/ wingwall
Pipe under Pavement (City): Box Culvert (72 sf to 144 sf)	lf	45	\$2,500.00	\$112,500.00	\$104,623	\$0	Syracuse Ln 10x7 Box culvert
Channel treatment: Soil stabilization and vegetative cover	yd2	85	\$13.88	\$1,179.80	\$1,097	\$283	Syracuse Ln
Channel treatment: Material to be hauled offsite	yd3	85	\$11.75	\$998.75	\$0	\$0	Syracuse Ln
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	50	\$148.47	\$7,423.50	\$6,904	\$0	Syracuse Ln
Concrete: Cast in place	yd3	43	\$250.00	\$10,750.00	\$0	\$0	Braintree headwall/ wingwall
Pipe under Pavement (City): Box Culvert (72 sf to 144 sf)	lf	60	\$2,500.00	\$150,000.00	\$139,498	\$0	Braintree 10x7 Box culvert
Channel treatment: Soil stabilization and vegetative cover	yd2	85	\$13.88	\$1,179.80	\$1,097	\$283	Braintree
Channel treatment: Material to be hauled offsite	yd3	115	\$11.75	\$1,351.25	\$0	\$0	Braintree
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	50	\$148.47	\$7,423.50	\$6,904	\$0	Braintree

Alternative Name WBMS-3

Problem Description Structure flooding on Cornell Lane.

Strategy Improve 6,300' of channel and replace two crossings.

District Minimum
Criteria for Funding:
Recommended

Met
Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
* Indicates item excluded from subtotal (e.g	land acquis	sition, buyou	ts)				
Subtotal (direct costs) Utility Relocation Mobilization \ General Conditions			4 % 5%	\$2,043,312 \$81,733 \$102,166	\$942,333	\$176,222	
Subtotal with Percent Allowances Contingency Profit			30% 5%	\$2,227,211 \$668,163 \$144,769			
Probable Construction Cost Estimate				\$3,040,142			
Design Engineering, Geotechnical, and Construction Management			10%	\$304,014			
Property Acquisition Cost:				\$0			
Total Conceptual Cost Estimate				\$4,462,712			