

FLOOD PROTECTION AND STORM DRAINAGE CAPITAL IMPROVEMENTS

MISSION

This program provides for the preparation of plans, specifications, and construction to improve storm drainage and reduce the loss of property due to flooding and erosion. These projects include construction and replacement of inadequate bridges and culverts, construction of erosion control structures, and the implementation of flood plain management plans to improve the flood protection system.

HIGHLIGHTED ACCOMPLISHMENTS FOR FY2003-04

1. Constructed additional four street culvert-crossing replacements in the Rush Creek watershed.
2. Completed the dredging of Bachman Lake.
3. Awarded design for Five Mile Pkwy (W) 1612, Coombs Creek Culvert at Clarendon, and Hunters View 5925 and 5929.

HIGHLIGHTED OBJECTIVES FOR FY2004-05

1. Continue implementation of 2003 Bond Program.
2. Award the Phase I construction of major drainage relief system in Gilford-Roanoke area.
3. Continue implementation of voluntary purchases of flood-prone homes on Arturo and Lakeland as part of the Ash Creek project.
4. Complete construction of storm drainage improvements on Swiss Avenue from Oak Street to Apple Street (Mill Creek Ph. I). (This storm water relief system will handle the surface overflows into the Baylor area until future recommended alternatives are implemented.)

OPERATING & MAINTENANCE COST

Upon completion, certain capital improvement projects will have on-going costs associated with operating and maintaining the new facility, improvement or expansion. At this time, no additional operating and maintenance costs have been identified for the Flood Protection and Storm Drainage Capital Improvement Program.

PROJECT CATEGORY DESCRIPTIONS

Erosion Control Erosion control projects are recommended for structures threatened by creek or channel bank erosion. Typical structures include streets, culverts, bridges, alleys and homes. Erosion occurring in areas not associated with creek banks or man-made channels is not included in this category. This category would provide armoring of natural creek banks to protect soil against further erosion loss.

Flood Management This category is primarily comprised of projects recommended in Flood Plain Management Studies of creeks and tributaries. The emphasis is on reduction of severe flood impact on bridges and neighborhoods bordering flood plain areas. Typical projects in this category are bridge and culvert replacement, creek channelization, detention basins and construction of flood protection levees.

Professional Services and Debt Issuance Provides funding for certain costs associated with capital improvement projects. These costs include studies and long-range plans, debt issuance costs, and reimbursements to the General Fund for professional staff services such as design, survey, land acquisition fees and engineering. Debt issuance and CIP Engineering costs are paid from the interest earned on bond proceeds.

Public Art Includes the public art initiatives throughout the City of Dallas. Funds generated by Public Art appropriations are used for the design services of artists, for the selection, acquisition, commissioning and display of artworks and for administration of the public art projects.

Storm Drainage Relief System Provides funds for the construction of storm drainage system improvements. Many areas within the City of Dallas are served by storm drainage systems that are inadequate because of continued development and the fact that many of the older systems were designed to a lesser standard than is used today. In many cases, because of the high cost of retrofitting improvements in fully developed areas, these projects are proposed for design and construction by phases.

FLOOD PROTECTION AND STORM DRAINAGE CAPITAL IMPROVEMENTS

<u>Source of Funds</u>	<u>Budget as of 06-30-04</u>	<u>Spent or Committed 06-30-04</u>	<u>Remaining as of 06-30-04</u>	<u>FY2004-05 Adopted</u>	<u>FY2005-06 Estimated</u>	<u>FY2006-07 Estimated</u>	<u>Total Estimated Cost</u>
1985 General Obligation Bonds	1,303,575	1,303,575	0	45,000	0	0	1,348,575
1989 General Obligation Bonds	0	0	0	14,400	0	0	14,400
1995 General Obligation Bonds	10,398,831	8,114,551	2,284,280	159,000	0	0	10,557,831
1998 General Obligation Bonds	5,018,881	3,197,103	1,821,778	270,594	0	0	5,289,475
2000 Certificates of Obligation	726,261	726,261	0	0	0	0	726,261
2003 General Obligation Bonds	4,325,657	2,028	4,323,629	3,174,324	2,120,455	6,960,203	16,580,639
Total Sources of Funds	21,773,205	13,343,518	8,429,687	3,663,318	2,120,455	6,960,203	34,517,181

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<u>Use of Funds</u>	<u>Budget as of 06-30-04</u>	<u>Spent or Committed 06-30-04</u>	<u>Remaining as of 06-30-04</u>	<u>FY2004-05 Adopted</u>	<u>FY2005-06 Estimated</u>	<u>FY2006-07 Estimated</u>	<u>Total Estimated Cost</u>
Erosion Control	4,579,478	2,688,268	1,891,210	670,624	284,138	291,556	5,825,796
Flood Management	6,639,583	4,970,427	1,669,156	2,339,569	1,758,458	5,988,846	16,726,456
Professional Services and Debt Issuance	1,077,212	735,920	341,292	634,633	0	0	1,711,845
Public Art	308,813	133,495	175,318	18,492	12,220	15,991	355,516
Storm Drainage Relief System	9,168,119	4,815,408	4,352,711	0	65,639	663,810	9,897,568
Total Uses of Funds	21,773,205	13,343,518	8,429,687	3,663,318	2,120,455	6,960,203	34,517,181

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Alice Creek	Erosion Control	04	95 Bond Program	1,030,575	132,224	898,351	0	0	0	1,030,575	2nd/05
Altadena at Alley	Erosion Control	05	03 Bond Program	55,853	0	55,853	0	0	0	55,853	1st/05
Ash Creek Voluntary Purchase - Arturo Area	Flood Management	07	03 Bond Program	562,754	0	562,754	562,754	562,754	562,754	2,251,016	N/A
Bond Sale Expense - Flood and Storm Drainage	Professional Services and Debt Issuance	Citywide	03 Bond Program	0	0	0	6,639	0	0	6,639	N/A
Bryn Mawr 5513	Storm Drainage Relief	14	03 Bond Program	0	0	0	0	15,248	102,045	117,293	3rd/07
Cedarhurst	Erosion Control	03	95 Bond Program	135,062	0	135,062	0	0	0	135,062	4th/05
CIP Engineering - Flood Protection and Storm Drainage	Professional Services and Debt Issuance	Citywide	85 Bond Program	0	0	0	45,000	0	0	45,000	N/A
CIP Engineering - Flood Protection and Storm Drainage	Professional Services and Debt Issuance	Citywide	98 Bond Program	0	0	0	270,594	0	0	270,594	N/A
CIP Engineering - Flood Protection and Storm Drainage	Professional Services and Debt Issuance	Citywide	89 Bond Program	0	0	0	14,400	0	0	14,400	N/A
CIP Engineering - Flood Protection and Storm Drainage	Professional Services and Debt Issuance	Citywide	03 Bond Program	0	0	0	139,000	0	0	139,000	N/A
CIP Engineering - Flood Protection and Storm Drainage	Professional Services and Debt Issuance	Citywide	95 Bond Program	0	0	0	159,000	0	0	159,000	N/A
Coombs Creek Culvert at Clarendon	Flood Management	01	03 Bond Program	20,331	0	20,331	136,060	0	0	156,391	3rd/05
Coombs Creek Culvert at Irwindell	Flood Management	01	03 Bond Program	0	0	0	43,566	291,556	0	335,122	3rd/06
Coombs Creek over Five Mile Creek	Erosion Control	03	03 Bond Program	0	0	0	18,589	124,397	0	142,986	1st/06
Elam Creek Channel - Lake June to Seco (Phase I)	Flood Management	04,05	03 Bond Program	0	0	0	638,966	0	4,308,468	4,947,434	4th/07

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Elmwood Bridge at Lansford Ave	Flood Management	01	03 Bond Program	0	0	0	22,341	0	0	22,341	2nd/06
Fernwood 1827 and 1835	Erosion Control	04	03 Bond Program	0	0	0	0	116,175	0	116,175	4th/07
Five Mile Pkwy (W) 1612	Erosion Control	03	03 Bond Program	34,853	0	34,853	233,245	0	0	268,098	3rd/05
Gilford - Roanoke Area Relief System - Phase I	Storm Drainage Relief	02	03 Bond Program	1,899,012	0	1,899,012	0	0	0	1,899,012	2nd/05
Griffith Ave 630	Erosion Control	01	03 Bond Program	135,061	0	135,061	0	0	0	135,061	N/A
Hampton (S) 1304	Storm Drainage Relief	03	03 Bond Program	30,161	0	30,161	0	0	0	30,161	1st/05
Harvest Glen 6804	Erosion Control	12	98 Bond Program	35,631	0	35,631	0	0	0	35,631	3rd/04
Hawthorne - Bowser Area	Storm Drainage Relief	14	03 Bond Program	0	0	0	0	22,364	149,665	172,029	4th/07
Hickory Creek	Storm Drainage Relief	08	85 Bond Program	797,894	797,894	0	0	0	0	797,894	3rd/04
Hunters View 5925 and 5929	Erosion Control	04	03 Bond Program	39,209	0	39,209	262,399	0	0	301,608	3rd/05
Kellog at Kiest	Storm Drainage Relief	04	95 Bond Program	372,609	322,786	49,823	0	0	0	372,609	1st/04
Kiest Valley Parkway Erosion Control	Erosion Control	03	03 Bond Program	0	0	0	0	43,566	291,556	335,122	2nd/07
Manus (N) 300	Erosion Control	03	03 Bond Program	134,049	0	134,049	0	0	0	134,049	1st/05
Matilda 4318	Storm Drainage Relief	14	03 Bond Program	0	0	0	0	0	20,107	20,107	2nd/08
McCree Branch - Fieldcrest Drive Bridge	Flood Management	10	03 Bond Program	0	0	0	50,827	340,147	0	390,974	4th/06

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McKamy Branch (Upper) - Purchase and Swale	Flood Management	12	03 Bond Program	812,957	0	812,957	806,860	397,000	0	2,016,817	1st/06
McKinney Avenue Drainage - Blackburn to Hall	Storm Drainage Relief	14	98 Bond Program	465,810	465,300	510	0	0	0	465,810	3rd/03
Midpark 8545	Erosion Control	11	03 Bond Program	107,239	0	107,239	0	0	0	107,239	2nd/05
Mill Creek - Phase 1	Storm Drainage Relief	02,14	98 Bond Program	3,045,500	2,553,189	492,311	0	0	0	3,045,500	4th/04
Miscellaneous Storm Drainage Improvements	Storm Drainage Relief	Citywide	85 Bond Program	505,681	505,681	0	0	0	0	505,681	Various
Miscellaneous Storm Drainage Improvements	Storm Drainage Relief	Citywide	95 Bond Program	1,097,876	0	1,097,876	0	0	0	1,097,876	Various
Miscellaneous Storm Drainage Improvements	Storm Drainage Relief	Citywide	98 Bond Program	12,190	0	12,190	0	0	0	12,190	Various
Munger 3900 at Johnson	Storm Drainage Relief	14	03 Bond Program	0	0	0	0	7,261	48,593	55,854	3rd/08
Park Vista Drive, 2400 Block	Erosion Control	07	03 Bond Program	0	0	0	89,366	0	0	89,366	2nd/06
Pemberton Hill - Phase 2	Storm Drainage Relief	05	98 Bond Program	607,410	238	607,172	0	0	0	607,410	3rd/05
Pentagon Drainage: Marsalis/Yewpon (Phase I Engineering)	Storm Drainage Relief	04	98 Bond Program	173,687	168,292	5,395	0	0	0	173,687	4th/00
Public Art Administration - Flood Protection and Storm Drainage	Public Art	Citywide	03 Bond Program	4,222	0	4,222	3,698	2,878	3,459	14,257	Various
Public Art Administration - Flood Protection and Storm Drainage	Public Art	Citywide	95 Bond Program	37,500	13,660	23,840	0	0	0	37,500	Various
Public Art Administration - Flood Protection and Storm Drainage	Public Art	Citywide	98 Bond Program	20,041	0	20,041	0	0	0	20,041	Various
Public Art Projects - Flood Protection and Storm Drainage	Public Art	Citywide	95 Bond Program	150,000	119,835	30,165	0	0	0	150,000	Various

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Public Art Projects - Flood Protection and Storm Drainage	Public Art	Citywide	98 Bond Program	80,161	0	80,161	0	0	0	80,161	Various
Public Art Projects - Flood Protection and Storm Drainage	Public Art	Citywide	03 Bond Program	16,889	0	16,889	14,794	9,342	12,532	53,557	Various
Rex Drive 6247	Storm Drainage Relief	11	03 Bond Program	160,289	2,028	158,261	0	0	0	160,289	2nd/05
Ridgedale 5535	Storm Drainage Relief	14	03 Bond Program	0	0	0	0	0	204,424	204,424	2nd/08
Rugged Branch - Culvert Improvement at Elmwood	Flood Management	01	03 Bond Program	0	0	0	78,195	0	0	78,195	1st/06
Rush Creek - Culvert at Dalgreen	Flood Management	09	03 Bond Program	0	0	0	0	47,341	316,822	364,163	2nd/08
Rush Creek - Culvert at Fisher	Flood Management	09	03 Bond Program	0	0	0	0	45,018	301,273	346,291	2nd/08
Rush Creek - Culvert at Patrick	Flood Management	09	03 Bond Program	0	0	0	0	34,852	233,243	268,095	2nd/08
Rush Creek - Culvert at Trammel	Flood Management	09	03 Bond Program	0	0	0	0	39,790	266,286	306,076	TBD
Shorecrest 3852	Storm Drainage Relief	14	03 Bond Program	0	0	0	0	7,261	48,593	55,854	3rd/07
Spruce Valley over Five Mile Creek	Erosion Control	03	03 Bond Program	0	0	0	67,025	0	0	67,025	4th/05
Transfer to the Debt Service Fund - Bachman Dredging	Professional Services and Debt Issuance	Citywide	98 Bond Program	9,659	9,659	0	0	0	0	9,659	N/A
Transfer to the Debt Service Fund - Bachman Dredging	Professional Services and Debt Issuance	Citywide	Certificates of Obligation	726,261	726,261	0	0	0	0	726,261	N/A
Transfer to the Debt Service Fund - Flood and Storm Drainage	Professional Services and Debt Issuance	Citywide	98 Bond Program	341,292	0	341,292	0	0	0	341,292	N/A
Trinity River Improvements	Flood Management	Citywide	95 Bond Program	4,795,781	4,750,914	44,867	0	0	0	4,795,781	2nd/00

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Valley View Park	Erosion Control	11	03 Bond Program	312,778	0	312,778	0	0	0	312,778	2nd/08
Voluntary Purchase - 7133 Winding Creek	Flood Management	12	98 Bond Program	227,500	425	227,075	0	0	0	227,500	N/A
Voluntary Purchase - Oakland Channel	Flood Management	07	95 Bond Program	220,260	219,088	1,172	0	0	0	220,260	N/A
White Rock Lake INS Study	Erosion Control	Citywide	95 Bond Program	125,000	125,000	0	0	0	0	125,000	N/A
Winnetka (N) - 1100 Block	Storm Drainage Relief	03	03 Bond Program	0	0	0	0	13,505	90,383	103,888	4th/07
Woody Branch	Erosion Control	04,05	95 Bond Program	2,434,168	2,431,044	3,124	0	0	0	2,434,168	2nd/00
Total Flood Protection and Storm Drainage Capital Improvements				21,773,205	13,343,518	8,429,687	3,663,318	2,120,455	6,960,203	34,517,181	