

## ***Project Summary and Justification***

Department	Public Works
Division	Watershed Management

The 2006-2012 Watershed Management Capital Improvement Program is a combination of projects which require funding on an annual basis and projects requiring one-time funding for specific locations.

### **Project 1      Miscellaneous Minor Public Storm Drainage Studies and Improvements, such as Repairs to Physically Distressed Systems and Upgrading Aging Systems**

Project 1 is for the construction of minor storm drainage improvements at various locations in the public storm drainage system where deficiencies are causing local drainage problems or repairs are needed to existing facilities. Specific locations have not been identified. Funding for this project is also used for minor storm drainage studies on an as-needed basis.

### **Project 2      Preliminary Storm Drainage Studies, Engineering, Emergency Construction and Right-of-Way and Easement Acquisition**

Project 2 reflects the continuing need to provide funding for preliminary storm drainage studies, engineering, emergency construction and right-of-way and easement acquisitions.

### **Project 3      City Subsidy to Storm Drainage Construction in Paving Projects**

Project 3 is for the on-going need to finance construction of storm drainage projects required in conjunction with the construction of paving projects throughout the City.

### **Project 4      Comprehensive Stormwater Watershed Master Plans and Basin Management Plans (Preliminary Engineering)**

Project 4 provides continuing funding for Comprehensive Stormwater Watershed Master Plans and other Basin Management Plans (e.g. Conservation Plans). These plans provide preliminary engineering and are a tool to manage drainage quantity and quality, update floodplain maps, and prioritize future stormwater expenditures in each drainage basin within the City. LPSNRD assists in providing funds for this project. These plans are funded by general obligation bonds, which must be approved by voters of the City of Lincoln.

### **Project 5      Implementation of Stormwater Watershed Master Plan and Conservation Plan Projects**

Project 5 is the implementation of Stormwater Watershed Master Plan and Conservation Plan projects. These projects include bank stability measures, channel improvements, wetlands, engineering, land acquisitions, FEMA map updates, floodplain preservation, grade checks, and storage facilities within Master Planned and Conservation Planned basins. LPSNRD assists in the funding of these projects. These projects are funded by general obligation bonds, which must be approved by voters of the City of Lincoln. Plans approved, in-process, or planned for with this CIP include the following watersheds: a) Beal Slough, b) Southeast Upper Salt Creek, c) Stevens Creek, d) Cardwell Branch, e) Little Salt Creek and f) Dead Mans Run.

### **Project 6      Best Management Practice (BMP) Projects**

Project 6 provides funding for Best Management Practice (BMP) projects. These projects include cost share for: a) BMP demonstration projects and other BMPs that improve water quality and quantity for the

***Project Summary and Justification (cont.)***

Department	Public Works
Division	Watershed Management

City of Lincoln, and b) Site Specific Structural BMPs as recommended in the Stevens Creek Watershed Master Plan. LPSNRD assists in the funding of these projects and the City is seeking funding from NDEQ and other state and federal agencies for assistance with BMP demonstration and other BMP projects. These projects are funded by general obligation bonds, which must be approved by voters of the City of Lincoln.

**Project 7 Urban Storm Drainage Projects**

Project 7 consists of urban drainage construction projects at various locations in the City of Lincoln where no system exists or to replace or improve deficient urban drainage systems. Areas being targeted are those identified in the Preliminary Engineering and Prioritization of Urban Drainage System Deficiency studies funded in previous CIPs. The prioritization of these deficiencies is the basis for the projects identified in Project 7. Projects in this 2006-2012 CIP which are projected to be included in the proposed 2007 bond issue include design and/or construction of drainage improvements in the following nine areas: a) 50th and Pioneers Area, b) 39th and D Area, c) 11th and Harrison Area, d) 48th and Y Area, e) 29th and Center Area, f) 63rd and Aylesworth Area, g) 51st and Hillside Area, h) 69th and Leighton Area, i) 16th and South Street Area, j) 33rd and Washington Area, and k) 45th and Ginny Area.

The lack of proper storm drainage systems causes street and private property flooding during intense storm events, as well as other drainage issues. These projects are funded by general obligation bonds, which must be approved by voters of the City of Lincoln.

**Project 8 Floodplain/Floodprone Projects**

Project 8 provides funding for floodplain management projects, including Project 8a, the purchase of easements or fee title for floodplain/floodprone areas to conserve flood storage and other natural floodplain functions, and Project 8b, flood reduction projects for the Salt Creek Basin. Project 8b is a new component which is based upon the completion of the Salt Creek Digital Flood Insurance Rate Map (DFIRM) remapping study (currently in draft form). It includes the evaluation, potential land acquisition and other measures for a flood reduction project along Salt Creek.

**Project 9 Storm Drainage Rehabilitation of Parks and Recreation Department Property**

Project 9 is identified for storm drainage projects on Parks and Recreation property, and are typically channel rehabilitation and scour protection projects. A preliminary assessment has been completed for rehabilitation needs in Antelope Park, Taylor Park, Herbert Park and Roper Park. This project includes design and/or construction for projects in: a) Taylor Park, b) Herbert Park, c) Tyrrell Park and d) Roper Park. Projects are coordinated closely with the Parks and Recreation Department.

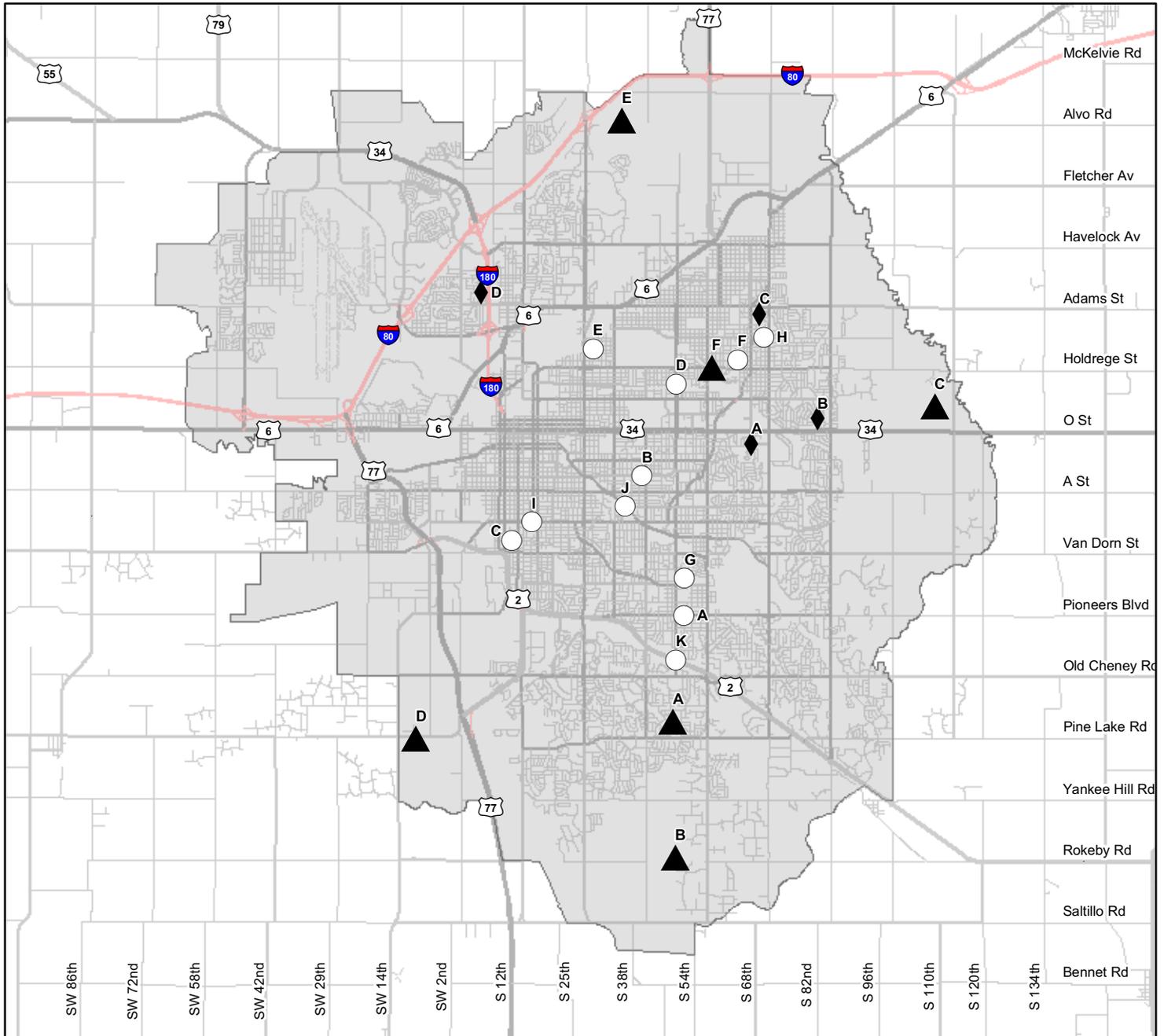
These projects typically involve rip rap placement, live staking, composite revetments, grade stabilization structures, step and plunge pools, and crib/modular walls. These projects are funded by general obligation bonds, which must be approved by voters of the City of Lincoln.

***Project Summary and Justification (cont.)***

Department	<u>Public Works</u>
Division	<u>Watershed Management</u>

**Project 10      Miscellaneous Repairs and Rehabilitation**

Project 10 consists of miscellaneous repairs and rehabilitation to existing City storm drainage systems. These are typically smaller than projects accomplished with CIP Project 7 (Urban Storm Drainage Projects). These projects are funded by general obligation bonds, which must be approved by voters of the City of Lincoln.



## LEGEND

### Lincoln's Future Service Limit Shown as Grey

Map Prepared  
by  
ES GIS Section



Project 5: Implementation Basin Master Plan & Conservation Plan Projects  
(Multiple Years) \*Symbol Indicates General Basin Location\*



Project 7: Urban Storm Drainage Projects  
(Multiple Years)



Project 9: Storm Drainage Rehabilitation of Parks & Recreation Property  
(Multiple Years)

**List of Projects**

*Department: Public Works/Watershed Management*

Project  
Number    Project Title

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- 1\*      Miscellaneous Minor Public Storm Drainage Studies and Improvements, such as Repairs to Physically Distressed Systems and Upgrading Aging Systems
- 2\*      Preliminary Storm Drainage Studies, Engineering, Emergency Construction, Right-of-Way and Easement Acquisitions
- 3\*      City Subsidy to Storm Drainage Construction in Paving Projects
- 4\*      Comprehensive Stormwater Watershed Master Plans and Basin Management Plans (Preliminary Engineering)
- 5        Implementation of Stormwater Watershed Master Plan and Conservation Plan Projects
  - A. Beal Slough Watershed
  - B. Southeast Upper Salt Creek Watershed
  - C. Stevens Creek Watershed
  - D. Cardwell Branch Watershed
  - E. Little Salt Creek Watershed
  - F. Dead Mans Run Watershed
- 6\*      Best Management Practice (BMP) Projects
- 7        Urban Storm Drainage Projects
  - A. 50th and Pioneers Area
  - B. 39th and D Area
  - C. 11th and Harrison Area
  - D. 48th and Y Area
  - E. 29th and Center Area
  - F. 63rd and Aylesworth Area
  - G. 51st and Hillside Area
  - H. 69th and Leighton Area
  - I. 16th and South Street Area
  - J. 33rd and Washington Area
  - K. 45th and Ginny Area
- 8\*      Floodplain/Floodprone Projects
- 9        Storm Drainage Rehabilitation of Parks and Recreation Properties
  - A. Taylor Park
  - B. Herbert Park
  - C. Tyrrell Park
  - D. Roper Park
- 10\*     Miscellaneous Repairs and Rehabilitations

\*Indicates project is NOT shown on the map.

2006 - 2012 CAPITAL IMPROVEMENT PROGRAM

DIVISION: WATERSHED MANAGEMENT

(1) PROJ. NO.	(2) PROJECT TITLE	(3) PROJ. PRIO.	(4) PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)											
			2006-2007		2007-2008		2008-2009		2009-2010		2010-2011		2011-2012	
			FS	GR	FS	GR	FS	GR	FS	GR	FS	GR	FS	GR
1	Miscellaneous minor public storm drainage studies, improvements, such as repairs to physically distressed systems and upgrading aging systems	A		106.1 GR		109.3 GR		112.6 GR		115.9 GR		119.4 GR		
2	Preliminary storm drainage studies, engineering, emergency construction, and right-of-way and easement acquisitions	A		15.2 GR		15.7 GR		16.2 GR		16.7 GR		17.2 GR		
3	City subsidy to storm drainage construction in paving projects	A		43.2 GR		44.5 GR		45.8 GR		47.2 GR		48.6 GR		
4	Comprehensive Stormwater Watershed Master Plans and Basin Management Plans (Preliminary Engineering) (LPSNRD Funding)	A	500.0 GO 250.0 OF		250.0 OF		530.5 GO 250.0 OF		250.0 OF		562.8 GO 250.0 OF		250.0 OF	
PROJECT 4 TOTAL			750.0	250.0	780.5	250.0	812.8	250.0						
5	Projects to implement approved Basin Master Plans and Conservation Plans to include channel improvements, stream stability measures, wetlands, engineering, land acquisitions, FEMA map updates, floodplain/floodprone preservation, grade checks, storage facility and other projects recommended in Watershed Master Plans and Conservation Plans (LPSNRD Funding)	A	4,000.0 GO 500.0 OF		500.0 OF		4,243.6 GO 500.0 OF		500.0 OF		4,502.0 GO 500.0 OF		500.0 OF	
PROJECT 5 TOTAL			4,500.0	500.0	4,743.6	500.0	5,002.0	500.0						
6	Best Management Practice (BMP) projects													
	a. BMP demonstration project (LPSNRD Funding)	A	150.0 GO 75.0 OF		75.0 OF		159.1 GO 75.0 OF		75.0 OF		168.8 GO 75.0 OF		75.0 OF	
	(NDEQ Funding)		100.0 SF		100.0 SF		100.0 SF		100.0 SF		100.0 SF		100.0 SF	
	b. Structural BMP cost share (LPSNRD Funding)	A	100.0 GO 50.0 OF		50.0 OF		106.1 GO 50.0 OF		50.0 OF		112.6 GO 50.0 OF		50.0 OF	
PROJECT 6 TOTAL			475.0	225.0	490.2	225.0	506.4	225.0						
* Denotes new project														

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2011-2012 (000's)	PRIOR APPROPRIATIONS		TOTAL CAP COSTS (000's)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						PROJ. NO.
		(000's)	YEAR FS	(5)+(6)+(7)			PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)	
563.3	Unknown	100.0	04-05 GR	766.3	GCP	1		130.0	65.0	471.3			1
81.0	Unknown	14.4	04-05 GR	110.2	GCP	1	50.8		45.0				2
229.3	Unknown	40.7	04-05 GR	311.9	GCP	1				271.2			3
1,593.3	Unknown	629.2	04-05 GO										
1,500.0	Unknown	250.0	05-06 OF										
3,093.3		879.2		3,972.5	ICWP	2	3,093.3						4
12,745.6	Unknown	1,735.0	04-05 GO										
3,000.0	Unknown	250.0	05-06 OF										
15,745.6		1,985.0		17,730.6	ICWP	2	800.0	2,400.0	1,500.0	11,045.6			5
477.9	Unknown	150.0	04-05 GO										
450.0	Unknown	100.0	05-06 OF										
600.0	Unknown	100.0	05-06 SF										
318.7	Unknown	100.0	04-05 GO										
300.0	Unknown	50.0	05-06 OF										
2,146.6		500.0		2,646.6	GCP	1		400.0	800.0	946.6			6

(1) PROJ. NO.	(2) PROJECT TITLE	(3) PROJ. PRIO.	(4) 3% Inflation per year											
			PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)											
			2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS	2010-2011	FS	2011-2012	FS
7	Urban Storm Drainage Projects a. 50th and Pioneers Area b. 39th and D Area c. 11th and Harrison Area d. 48th and Y Area e. 29th and Center Area f. 63rd and Aylesworth Area g. 51st and Hillside Area h. 69th and Leighton Area j. 33rd and Washington Area k. 45th and Ginny Area	A	5,600.0	GO			5,941.0	GO			6,302.8	GO		
8	Floodplain/Floodprone projects a. Purchase of easements or fee title for floodplain/floodprone areas (LPSNRD Funding)	A	300.0	GO			318.3	GO			337.7	GO		
*	b. Flood reduction projects for the Salt Creek Basin (LPSNRD Funding)	A	150.0	OF	150.0	OF	150.0	OF	150.0	OF	150.0	OF	150.0	OF
			300.0	GO			318.3	GO			337.7	GO		
			150.0	OF	150.0	OF	150.0	OF	150.0	OF	150.0	OF	150.0	OF
	<b>PROJECT 8 TOTAL</b>		<b>900.0</b>		<b>300.0</b>		<b>936.6</b>		<b>300.0</b>		<b>975.4</b>		<b>300.0</b>	
9	Storm Drain Rehabilitation of Parks and Recreation Property a. Taylor Park b. Herbert Park c. Tyrrell Park d. Roper Park	A B B B	400.0	GO			200.0	GO			500.0	GO		
*			50.0	GO			200.0	GO						
			50.0	GO			100.0	GO						
	<b>PROJECT 9 TOTAL</b>		<b>500.0</b>				<b>500.0</b>				<b>500.0</b>			
10	Miscellaneous Repairs and Rehabilitations	A	380.0	GO			403.1	GO			427.7	GO		
	FUNDING SOURCE BREAKDOWN:													
	GO (General Obligation Bonds)		11,830.0		0.0		12,520.0		0.0		13,252.1		0.0	
	GR (General Revenue)		0.0		164.5		169.5		174.6		179.8		185.2	
	OF (Lower Platte South NRD)		1,175.0		1,175.0		1,175.0		1,175.0		1,175.0		1,175.0	
	SF (NDEQ)		100.0		100.0		100.0		100.0		100.0		100.0	
	DIVISION TOTAL		13,105.0		1,439.5		13,964.5		1,449.6		14,706.9		1,460.2	
	* Denotes new project													

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2011-2012 (000's)	PRIOR APPROPRIATIONS		TOTAL CAP COSTS (000's)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						PROJ. NO.
		(000's)	YEAR FS	(5)+(6)+(7)			PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)	
17,843.8	Unknown	3,749.0	04-05 GO	21,592.8	GCP	6		2,600.0	1,300.0	13,943.8			7
956.0	Unknown	335.0	04-05 GO										
900.0	Unknown	300.0	05-06 OF										
956.0	Unknown												
900.0	Unknown												
3,712.0		635.0		4,347.0	ICWP	1		550.0	2,000.0	1,162.0			8
400.0	None												
250.0	None												
250.0	None												
600.0	None												
1,500.0		720.0	04-05 GO	2,220.0	GCP	7		200.0		1,300.0			9
1,210.8	Unknown	420.0	04-05 GO	1,630.8	GCP	1		180.0		1,030.8			10
37,602.1													
873.6													
7,050.0													
600.0													
=====													
46,125.7													

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