



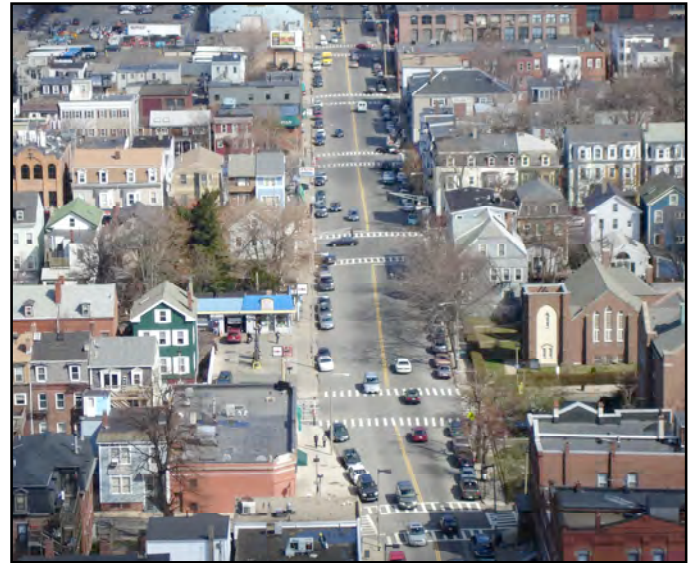
# RESERVED CHANNEL SEWER SEPARATION PROJECT

## PURPOSE

The Boston Water and Sewer Commission's (the Commission) Reserved Channel Sewer Separation Project involves separating the combined sewer system in the Reserved Channel area of South Boston. The purpose of this federal court ordered project is to reduce pollution levels in Boston Harbor by substantially decreasing the number and volume of Combined Sewer Overflows (CSOs) into the Reserved Channel and Boston Harbor. The separation project is being undertaken by the the Commission on behalf of the Massachusetts Water Resources Authority (MWRA). The project was included in the MWRA's 2004 Supplemental Facilities Plan and Environmental Impact Report on the Long-Term CSO Control Plan for North Dorchester Bay and Reserved Channel.

Combined sewers are found in many older cities and carry both sanitary sewage and stormwater in the same pipe. During dry weather, sanitary flows are conveyed to interceptor sewers that transport the sewage flows to a wastewater treatment facility. During wet weather, the stormwater gradually takes up the greater portion of the space in the pipe and, depending upon the duration and intensity of the storm, may exceed the capacity of the combined sewer system. The excess combined flows are transported to overflow conduits that discharge into a local body of water, in this case the Reserved Channel and Boston Harbor. The resulting discharge of both sanitary sewage and stormwater flows from these overflow pipes is known as a CSO (combined sewer overflow).

The existing overflow conduits in the Reserved Channel area currently discharge CSOs into the Reserved Channel at outfalls BOS 076, BOS 078, BOS 079 and BOS 080. This sewer separation project will replace the existing single combined system with two separate systems – one for sanitary sewage and one for stormwater. When construction is complete, sanitary sewage will



*A typical streetscape in the Reserved Channel Sewer Separation Project area of South Boston.*

be conveyed to the MWRA's Deer Island Wastewater Treatment Plant, while stormwater will be discharged directly into the Reserved Channel resulting in a substantial reduction in CSOs. As a result, the impact on the Reserved Channel and Boston Harbor from the harmful effects of pollution from CSOs will be substantially reduced.

## PROJECT AREA

The Reserved Channel Sewer Separation Project encompasses an area roughly delineated by the Reserved Channel/Fargo Street to the north, Farragut Road to the east, East Fourth Street/West Broadway to the south and B Street/C Street near the Haul Road to the west. Land use in the project area is characterized by residential neighborhoods; light industrial and large commercial buildings and complexes; small business and retail districts; civic, cultural and educational facilities; and transportation related sites.

## SCOPE OF WORK

### *Sewer Separation*

The **Design Phase** involves:

- Field investigations, including surveys of streets and adjacent areas, television inspection of sewers and outfalls, subsurface geotechnical investigation, inspection of manholes and subsurface investigation of utilities by vacuum excavation
- Inspection of residential and non-residential buildings for locations of downspouts and building laterals
- Coordination with abutters and public/private agencies, organizations and utilities
- Preparation of permits and final construction contract plans and specifications

The **Construction Phase** involves:

- Installation of approximately 40,100 linear feet of new storm drains and the rehabilitation/relay of 17,300 linear feet of existing sanitary sewers and 23,100 linear feet of water mains in approximately 37 streets
- Disconnection of residential and non-residential building downspouts and laterals, including catch basins and area drains
- Rehabilitation of existing outfalls and structures and replacement of tidegates
- Restoration of all roadways, curbing, sidewalks and other areas impacted by construction

### *Building Disconnections*

In addition to separating combined sewers in the street, this project will disconnect as many individual building downspouts and laterals from sewers as is cost effective. Building laterals are pipes that connect a building's internal plumbing to pipes in the street. Many older buildings in the South Boston area have an internal pipe that collects stormwater from the roof and discharges it into the building sewer lateral. Downspouts also collect stormwater from the roof in pipes that run down the sides of buildings. In some cases, these downspouts discharge into the sewer, rather than splashing to the ground. Since the purpose of this project is to remove as much stormwater from the sewer system as possible, these building downspouts will be disconnected, where feasible. This work will be coordinated individually with building owners, as necessary.

## OVERALL SCHEDULE

Eight construction contracts (four pipe installation, one building disconnection, one outfall restoration, one sewer cleaning and lining and two paving restoration) will be designed, advertised for bids, awarded and then constructed. The project will be completed in the following phases:

**Final Design Phase – March 2008 through January 2012.** During this phase, the eight construction contracts will be prepared, advertised, bid and awarded to the lowest responsible bidder.

**Construction Phase – May 2009 through December 2015.** During this phase, construction of the eight contracts will be phased, with each contract lasting approximately 18 to 24 months. Permanent pavement restoration work will follow each construction contract.

### COMPLETED CONSTRUCTION CONTRACT

- Contract 2 (080) construction began in May 2009 and was completed in October 2010. Construction took place in streets generally bounded by East First Street, East Fourth Street, M Street and Farragut Road.

### CURRENT CONSTRUCTION CONTRACTS

- Contract 1 (Outfalls Restoration)–11/2010 to 11/2011; D'Allessandro Corporation, Avon, MA  
Construction will be localized in the area of four outfalls; one on Pappas Way, one on East First Street, one on Summer Street and one in Conley Terminal.
- Contract 3A (076S)–12/2010 to 04/2013; RJV Construction Contracting, Canton, MA  
Construction will take place in streets in the contract area generally bounded by West First Street, West Broadway, E Street and Dorchester Street, including a portion of Pappas Way.
- Contract 3B (078E/079)–04/2011 to 12/2013; D'Allessandro Corporation, Avon, MA  
Construction will take place in streets in the contract area generally bounded by East First Street, East Third Street, G Street and M Street.
- Contract 7 (Paving #1)–11/2010 to 12/2012; Mario Susi & Sons, Dorchester, MA  
Paving will be restored on streets impacted by Contract 2 construction.

### FUTURE CONSTRUCTION CONTRACTS

- Contract 4 (078S/076W)–09/2011 to 12/2013
- Contract 5 (Sewer Clean/Line)–09/2013 to 07/2014
- Contract 6 (Downspouts)–04/2012 to 12/2014
- Contract 8 (Paving #2)–04/2012 to 11/2015

## PROJECT COORDINATION AND CONSTRUCTION ACTIVITY

The Commission is committed to working closely with the Mayor's Office; elected officials; Boston Public Works Department (BPWD), Boston Transportation Department (BTD) and other City departments; Massachusetts Port Authority, Massachusetts Convention Center Authority and Massachusetts Bay Transportation Authority; the MWRA and other public and private utility companies; state and federal regulatory agencies; and, most importantly, with abutters to ensure the project is successfully completed. Extensive coordination with National Grid will be required because gas main relocations or replacements will be necessary. Effective coordination will also help mitigate many short-term construction related impacts that may be associated with the project.

The Commission will adhere to all city and state regulations and ordinances governing construction in public roadways. All dust, debris and excavate will be strictly controlled and monitored.

## RESTORATION

In an effort to streamline and expedite all temporary and permanent roadway resurfacing, the Commission will complete pavement restoration work as part of this project in accordance with the requirements of the BPWD. Similarly, sidewalks and private property impacted by construction will be restored under this project.

## COMMUNITY RELATIONS PROGRAM

The Commission is committed to a proactive community relations program during both the design and construction phases of this project. The program is designed to keep residents, businesses and elected officials informed about the project by holding public meetings, placing notices in local newspapers and posting updates on the project webpage (<http://www.bwsc.org/channel.htm>). Prior to the start of construction, public meetings will be held to introduce the contractor and provide specific information and anticipated schedules for upcoming work. In addition, before construction begins on a street, a notice will be sent in the mail announcing the work to be performed on the street. Project staff will meet periodically with residents, businesses, civic groups, educational and cultural institutions and elected officials to provide updates, as requested or appropriate. Commission staff will work closely with affected

neighborhoods regarding issues such as pedestrian and vehicular traffic management, access to residences and business establishments, maintaining access for deliveries and trash and snow removal, and issues specific to traffic entering and exiting Conley Terminal.

## BWSC AND MWRA AGREEMENT AND COSTS

The Reserved Channel Sewer Separation Project is mandated by a federal court order as part of the Boston Harbor Project. Because the Commission has extensive experience in managing sewer separation projects and is well equipped to complete these projects, MWRA asked it to implement the separation project.

Under the provisions of the agreement between MWRA and the Commission, MWRA will be responsible for eligible construction costs. The remainder will be funded by the Commission through its Capital Improvement Program (CIP) for additional water and sewer system improvements being completed concurrently with this project.

## PROJECT CONTACTS

For further information on the project or to be added to the mailing list, please contact:

***Boston Water and Sewer Commission***  
**617-989-7000**

*Edward Duggan, Senior Design Engineer*

*Irene McSweeney, Director of Construction*

*Thomas Bagley, Deputy Director of Communications*

If you have questions or concerns about construction, please contact:

**Project Field Office**  
*John Doherty, Project Manager*  
*Fay, Spofford & Thorndike*  
*840 Summer Street, South Boston*  
*617-268-2046*

**In an emergency, contact BWSC's 24-hour, 7-day a week number at 617-989-7000.**

Boston Water and Sewer Commission  
980 Harrison Avenue  
Boston, MA 02119  
617-989-7000  
[www.bwsc.org](http://www.bwsc.org)





## Proposed Limits of Work for SBOS Reserved Channel CSO Separation By Contract

\*All or a portion of proposed pipe excavation outside of the public way.

St.	St. Limits		Contract Number	Year of Construction	Excavation Purpose					
					Storm Drain		Water		Sewer	
	From	To			Length (ft)	Pipe Size (in)	Length (ft)	Pipe Size (in)	Length (ft)	Pipe Size (in)
Private Property	Beyond Farragut Road	BOS-080	1	2011	18	72x72"				
Summer	Summer Street Bridge	BOS-079	1	2011	0	36"				
I Street (opposite)	East First St.	BOS-078	1	2011	200	60" & 72"				
Pappas Way	Beyond East First	BOS-076	1	2010 - 2011	110	12" & 84"	150	10"		
Bolton	F Street	Dorchester St	3A	2011 - 2013	705	12"	730	8"	675	12"
Bolton	239 Bolton St.	F St.	3A	2011 - 2013	125	24"				
Dorchester	East Second	Bolton Street	3A	2011 - 2013	390	24"			145	24"
Dorchester	Bolton Street	East Broadway	3A	2011 - 2013	400	18"				
Dresser	West of F St.	F St.	3A	2011 - 2013					25	18"
Dresser	@ F St.	F St.	3A	2011 - 2013					25	12"
Dresser	E St.	400' east toward F St.	3A	2011 - 2013	400	18"	400	8"	340	12"
E	W. Broadway	West First St.	3A	2011 - 2013			1,180	12"		
E	West First St.	West Second St.	3A	2011 - 2013	250	60"x24"				
E	West Second St	Bolton Street	3A	2011 - 2013	335	30"			140	18"
E	Bolton Street	West Third St.	3A	2011 - 2013	135	18"			70	15"
E	West Third St.	Athens St	3A	2011 - 2013	185	18"				
E	Athens St.	West Broadway St.	3A	2011 - 2013	150	15"				
E	West Broadway St.		3A	2011 - 2013	40	12"				
F	West First St	West Third St	3A	2011 - 2013			575	16"		
F	West First St.	West Second St.	3A	2011 - 2013	265	36"				
F	West Second St.	West Third St.	3A	2011 - 2013	265	24"				
F	West Third St.	Athens St.	3A	2011 - 2013	285	21"				
F	Athens St.	West Broadway St.	3A	2011 - 2013	100	18"				
G	Dorchester St	East Broadway	3A	2011 - 2013	190	18"				
G	Dorchester St.	East Broadway	3A	2011 - 2013	200	12"				
Pappas Way	650 feet northeast	West First St.	3A	2011 - 2013	675	84"			450	6"
East First	Pappas Way	West First St.	3A	2011 - 2013	120	72"				
West First	E St.	Pappas Way(Dorchester St.)	3A	2011 - 2013			2,360	16"	1,060	42"
West First	East First St.	F St	3A	2011 - 2013	380	72"				
West First	F St.	E St.	3A	2011 - 2013	545	72x48"				
West Broadway	F St.	toward E St.	3A	2011 - 2013	235	12"				
West Broadway	F St	toward Dorchester St.	3A	2011 - 2013	275	18"				
West Broadway	Midblock	toward Dorchester St.	3A	2011 - 2013	185	15"				
West Broadway	Midblock	Dorchester St	3A	2011 - 2013	320	12"				
East Broadway	At O St.		3A	2011 - 2013			10	12" (valve)		
West Second	F St.	E St.	3A	2011 - 2013	480	15"	550	8"		
West Second	F St.	toward Dorchester St.	3A	2011 - 2013	255	18"				
West Second	F St.	toward Dorchester St.	3A	2011 - 2013	165	15"				
West Second	F St.	toward Dorchester St.	3A	2011 - 2013	115	12"				
West Third	F St.	toward Dorchester St.	3A	2011 - 2013	430	12"				
West Third	E St.	toward F St.	3A	2011 - 2013	290	18"				
West Third	E St.	Dorchester St	3A	2011 - 2013			1,380	12"		
East First	I St	H St.	3B	2011 - 2013	2,600	12"-72"	2,975	12"/16"	1,525	12"-36"
East Second	Dorchester St.	H St.	3B	2011 - 2013	490	30"	500	12"		
East Second	Vicksburg St	Emmet St	3B	2011 - 2013	530	12/18"				
East Second	K St.	M St.	3B	2011 - 2013	1,200	24/42"	960	8"		
East Third	Emerson St	M St.	3B	2011 - 2013	1,530	12"-48"	2,650	8"/20"	750	12"/24"
Elkins	K St	Summer St.	3B	2011 - 2013	330	12"	540	8"		
H	East Third St	East Second St.	3B	2011 - 2013	620	18/36"	320	12"	225	12"
I	East Third St	East First St	3B	2011 - 2013	630	36/48"	300	8"	600	15/18/24"
K	East Third St	Power House Street	3B	2011 - 2013	1,250	12"-48"	1,330	12"	520	18"
L	East Second St.	Toward East Third St	3B	2011 - 2013	200	12"			215	12"
L	@ East First St		3B	2011 - 2013	40	12"				
Summer		Toward Elkins St.	3B	2011 - 2013			580'	12"		
M	East Second St.	Toward East Third St.	3B	2011 - 2013	300	12"	380	12"		
Burnham Place	Summer St. Bridge	East Third	3B	2011 - 2013	160	12"	180	2"		
Dorchester	East First	Approx. 138' south of E. First	3B	2011 - 2013	135	12"				