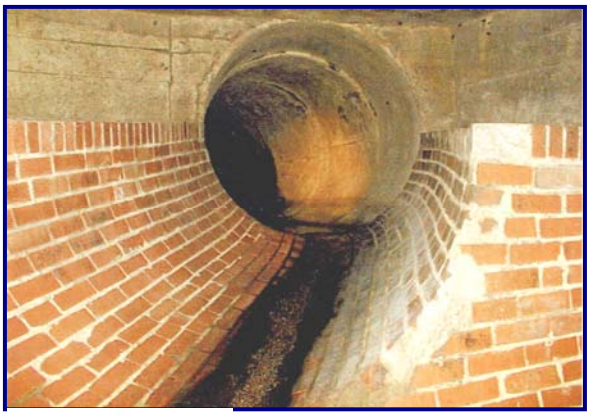
DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
Serving the Public • Protecting the Environment

Year 2012
Nine Minimum Controls Annual Report
For
Combined Sewer System



March 2013

prepared by

Program Consultants Organization

GREELEY AND HANSEN

JA·UNDERGROUND
Engineers/Consultants

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WATER AND SEWER AUTHORITY
Washington, D.C.

Year 2012
Nine Minimum Control Annual Report
For
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Program Consultant's Organization

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Section 1
Introduction

1.1 PURPOSE

In accordance with the terms of its National Pollutant Discharge Elimination System (NPDES) permit, the District of Columbia Water and Sewer Authority (DC Water) is required to submit an annual report on the implementation of the Nine Minimum Controls for the combined sewer system (CSS). This document is the annual report for calendar year 2012.

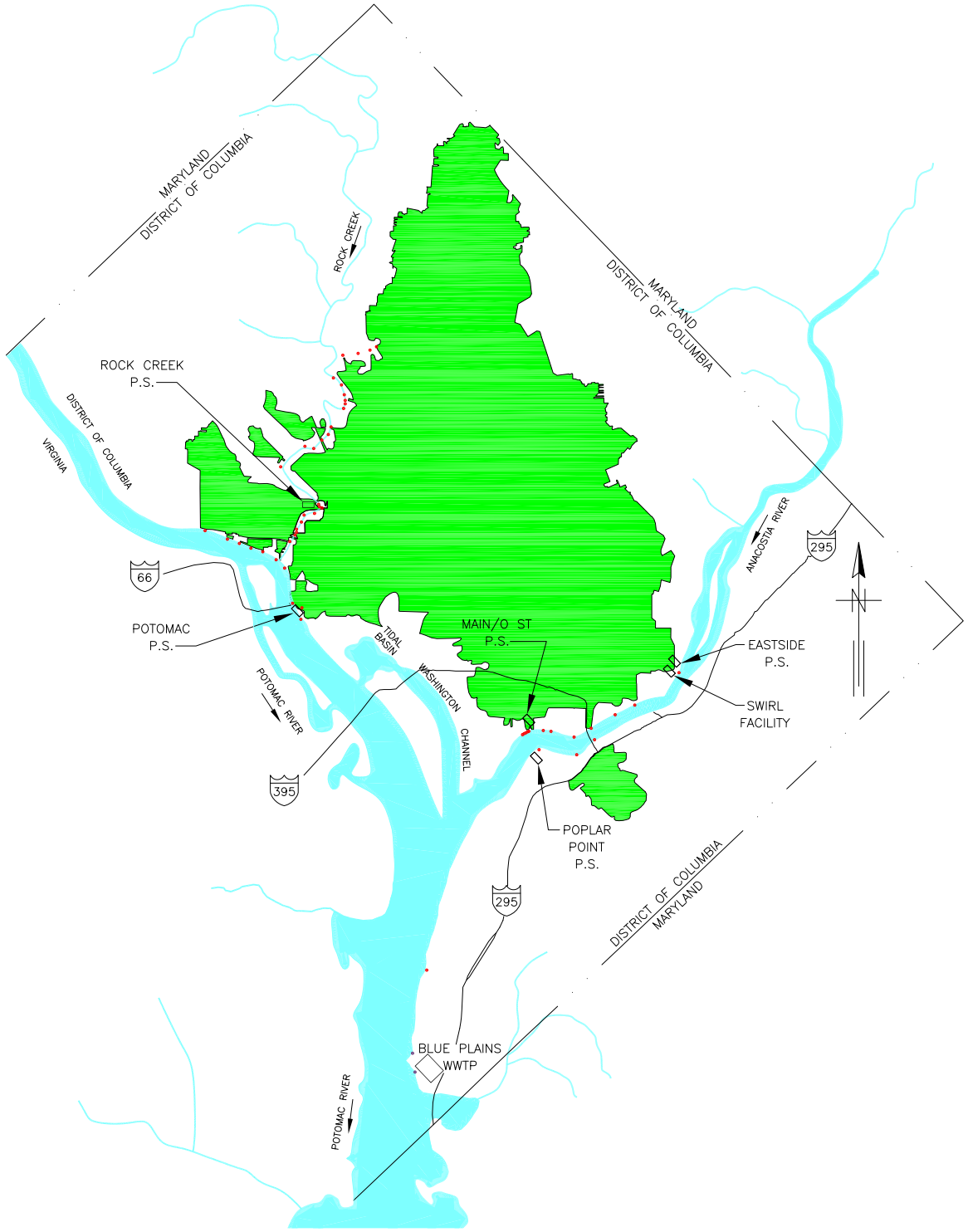
1.2 DC WATER SEWER SYSTEM

DC Water operates a wastewater collection system comprised of separate and combined sewers. Wastewater treatment is provided by the District's Blue Plains Advanced Wastewater Treatment Plant (BPAWWTP). The service area for BPAWWTP covers approximately 735 square miles including parts of suburban Virginia and Maryland. Approximately two-thirds of the District is served by separate sewers, which consist of two independent piping systems: one system for sanitary wastewater (i.e. sewage from homes and businesses) and the other system for storm water. The remaining one-third of the District or approximately 12,436 acres is served by a CSS, which conveys both storm water and sanitary wastewater in one piping system.

During dry weather, sanitary wastewater collected in the CSS is conveyed to BPAWWTP. During periods of heavy rainfall, the capacity of certain combined sewer structures are exceeded and the excess flow, which is a combination of storm water and sanitary wastewater, is discharged directly to overlying water bodies such as the Anacostia River, Rock Creek, the Potomac River or their tributary waters. This excess flow is called Combined Sewer Overflow (CSO). Release of this excess flow is necessary to prevent short term problems such as flooding in homes, businesses, and streets and long term problems such as depreciation in the value of affected buildings. There are 53 CSO outfalls listed in DC Water's existing NPDES Permit, which is issued and administered by the U.S. Environmental Protection Agency (EPA Region III). The combined sewer area is shown on Figure 1-1.

1.3 NPDES PERMIT REQUIREMENTS

NPDES permit, No. DC0021199, issued on August 31, 2010, authorizes DC Water to discharge from the outfalls listed in the permit in accordance with the limitations and other requirements specified in the permit. The permit is effective from September 30, 2010 until September 30, 2015. A copy of the NPDES permit is included in Appendix 1-1.



LEGEND

- CSO OUTFALL
- WWTP OUTFALL
- COMBINED SEWER AREA
- EXISTING PUMPING STATION

COMBINED SEWER AREA

SCALE: 1"=10,000'

In accordance with EPA's CSO Policy, DC Water's NPDES Permit requires implementation of EPA's nine minimum controls (NMCs). The NMCs are nonstructural and low cost management practices intended to optimize the existing sewer system to reduce CSOs. The NMCs are as follows:

1. Proper operations and maintenance
2. Maximize use of the collection system for storage
3. Review and modify pretreatment requirements
4. Maximize flow to the Publicly Owned Treatment Works (POTW) for treatment
5. Eliminate dry weather overflows
6. Control solids and floatables in CSO
7. Pollution prevention
8. Public notification
9. Monitoring

The permit requires DC Water to submit an annual report on the NMCs by March 31 of each year covering the prior calendar year. The following is an excerpt from the permit describing the reporting requirements:

1. *"Information submitted in reports shall, in general, be prepared in a tabular format giving dates, times and locations as applicable. The information to be reported of the Nine Minimum Controls Program shall include the following:*

    a. *CSS Control Structures - Number of inspections conducted, conditions observed (e.g., function normal, blockages, malfunctions repairs needed) and maintenance and repairs performed. For blockages observed provide: the location of blockage, date and time that the blockage was discovered, date and time blockage was corrected, and whether or not a discharge from the outfall to the receiving water was observed. If a discharge was observed, provide an estimate of discharge volume.*

    b. *Pumping Stations - Number of inspections conducted, numbers of screens and pumps installed and numbers available for service; and preventative maintenance performed. For pumps found not to be available for service, permittee shall report the cause of unavailability, schedule for and status of repairs. For the Main and O Street pumping stations, report the results of visual wet weather surveys and record of overflow screenings.*

    c. *Northeast Boundary Swirl Facility - Number of inspections conducted, number of screens and swirls installed and numbers available for service; and preventative maintenance performed. Report record of flow treated and screenings removed.*

    d. *Inflatable Dams and SCADA System - Number of inspections conducted. Number of dams installed and number of dams operational. Occurrence of an overflow and approximate duration of overflow based on inflation status of the dams.*

    e. *Major Combined Sewers - Upon development of inspection program. Inspections planned, inspections conducted, results of inspections and description and schedule for maintenance and repairs planned and performed.*

    f. *Wet Weather Overflows - Report the modeled results of the number, volume and average*

duration of overflows for each active CSO outfall due to wet weather events.

g. *Dry Weather Overflows - Are prohibited, however, in the event that they do occur, report their location, cause, date and time discovered, action taken, date and time discharge confirmed ceased and actions taken to prevent reoccurrence of the condition causing the overflow. Include an estimate of the overflow volume.*

h. *Catch Basin Cleaning - Number and location of catch basins required to be cleaned plus the number and location of catch basins actually cleaned.*

i. *Anacostia River Floatable Debris Removal Program - Number of boats available for service, number of cleaning trips, record of amount and nature of material removed.*

j. *BMP Demonstration for Solid and Floatable Control - Number of inspections conducted and conditions observed record of material removed at CSO outfalls 018, 040 and 041.*

k. *Other - Summarize actions and activities under programs for Pollution Prevention, Public Notification and Pretreatment.*

l. *Wet Weather Flows to Blue Plains WWTP - Upon development of a reporting system, report operations for each wet weather event.*

m. *CSS Litter Control - Number of meetings or conferences with DPW and NPS. Summary of topics discussed and actions adopted.*

2. *Report on the following quarterly:*
   a. *Northeast Boundary Swirl Facility*
   b. *Inflatable Dams and SCADA System*
   c. *Dry Weather Overflows*
   d. *CSS Control Structures*
   e. *Pumping Stations*
   f. *Wet Weather Flows to Blue Plains*
   g. *Wet Weather Overflows*
   h. *CSS Litter Control*

3. *Report on the following annually:*
   a. *CSS Inventory*
   b. *Major Combined Sewers*
   c. *Catch Basin Cleaning*
   d. *BMP Demonstration for Solid and Floatable Control*
   e. *Anacostia River Floatable Debris Removal Program*
   f. *Other"*

1.4 THREE PARTY CONSENT DECREE

DC Water entered into a Consent Decree (CD) with the U.S. Government and certain citizen plaintiffs to resolve allegations regarding the CSS. The following consent decree was lodged with and entered by the court on June 25, 2003 and October 10, 2003, respectively:

United States District Court for the District of Columbia
Civil Action No. 1:00CV00183TFH
Civil Action No. 02-2511 (TFH)
Consent Decree

There are many overlapping requirements between the CD and the NPDES permit. In most cases, items required to be implemented under the permit are also required to be implemented under the CD, with additional requirements regarding the schedule required for implementation or the nature of implementation. These are noted in the text of this document where relevant to the NMC program.

APPENDIX 1-1

NPDES Permit

Permit No. DC0021199

Effective Date: September 30, 2010
Expiration Date: September 30, 2015

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, 33 U.S.C. # 1251 et seq. (the "Act"),

District of Columbia Water and Sewer Authority

is authorized to discharge from the wastewater system and the facility located at

5000 Overlook Avenue, SW
Washington, D.C. 20032

to receiving waters named Potomac and Anacostia Rivers, Rock Creek, and tributary waters in accordance with effluent limitations, monitoring requirements and other conditions set forth in parts I, II and III, herein.

Signed this 31st day of August, 2010

Jon M. Capacasa, Director
Water Protection Division
U.S. Environmental Protection Agency
Region III

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Part IV. Special Conditions

Part I.EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

SECTION A. DEFINITIONS

When used in this permit, unless otherwise indicated, the following terms shall mean the following:

1. "**Blue Plains**" or "**plant**" or "**POTW**" or "**facility**" means the District of Columbia advanced wastewater treatment plant located at 5000 Overlook Avenue, S.W., Washington, DC, 20032.

2. "**Blue Plains Tunnel**" or "**BPT**" means the tunnel that is part of the CSS which is included in the LTCP and which terminates on the Blue Plains site.

3. "**Combined Sewer System**" or "**CSS**" means the pipelines pumping stations, treatment facilities, and appurtenances in the District of Columbia which are designed to convey wastewater and storm water through a single pipe system to combined sewer overflow outfalls and/or the POTW. The system also includes the selected CSO controls included in the LTCP and all supplements thereto, which are being implemented under the Consent Decree in Consolidated Civil Action No. 1:00CV00183TFH and all amendments thereto.

4. "**Combined Sewer System Flow**" or "**CSSF**" means the conditions that begin when the Influent Flow rate to receive complete treatment at the POTW is greater than 511 mgd. CSSF conditions shall be deemed to cease 4 hours after the Influent Flow rate drops to a rate less than 511 mgd or a period of 4 hours has lapsed since the start of the CSSF conditions, whichever occurs later.

5. "**Complete Treatment**" means passage of all flows through any combination of conveyance and treatment downstream of primary sedimentation that ultimately discharges effluent from Outfall 002, in accordance with the limitations set forth for Outfall 002 found at Part I.B. of this permit.

6. "**Disinfection**" means treatment to reduce E. coli. Disinfection by chlorination shall be followed by dechlorination.

7. "**Dry Weather Flow**" or "**DWF**" means the flow from sewers that convey collection system flow to Blue Plains when such flow is not greater than a rate of 511 mgd.

8. "**Enhanced Clarification**" means the treatment process that provides improved performance over that typically obtained from plain sedimentation, which process includes the recirculation of solids removed from the process or recirculation of other media together with the addition of coagulants.

9. "**Enhanced Clarification Facility**" or "**ECF**" means the combination of process units located on the end of the BPT, designed to empty the BPT and distribute flow from

the BPT to Complete Treatment and to disinfection prior to discharge from Outfall 001; such distribution to be under an operating routine described at Part I.C. footnote (1). These facilities are being constructed under the LTCP.

10. "**Excess Flow Treatment**" or "**EFT**" means treatment of Influent Flow during CSSF conditions, in East Primary Sedimentation followed by disinfection and dechlorination, for flow rates that exceed the rates required to receive Complete Treatment, up to a maximum rate of 336 mgd. As part of placing the ECF in operation, the EFT facilities shall be permanently disconnected from Outfall 001.

11. "**Influent Flow**" means the following:

    a. **Influent Flow** to receive complete treatment means the sum of metered flows from sewers that convey collection system flow to Blue Plains and flow emptied from the BPT.

    b. Prior to placing the ECF in operation, the **Influent Flow** discharged from Outfall 001 means the component of metered flow from sewers that convey collection system flow to Blue Plains and receives EFT.

    c. After the ECF is placed in operation, the **Influent Flow** discharged from Outfall 001 means the component of flow emptied from the BPT that receives treatment in the ECF and disinfection and dechlorination.

12. "**Long Term Control Plan**" or "**LTCP**" means the recommended plan for the CSS included in the Combined Sewer System Long Term Control Plan, Final Report, July 2002 prepared by the permittee pursuant to the 1994 CSO Policy and Section 402(q) of the CWA and any supplements thereto. The LTCP Final Report, July 2002, was submitted to EPA and the DC Department of Health, later DC Department of the Environment.

13. "**Measured Flow Rates**" means flows measured to determine rates to be treated and discharged under CSSF conditions. Flow rates shall be metered and rates recorded at intervals not to exceed one (1) hour. An average rate shall be calculated from the metered rate. An average rate means the rate calculated, for the total time that CSSF conditions are in effect, by dividing the sum of the metered rates by the number of rates recorded. Average rates shall be calculated or recorded directly from metered rates. The permittee shall be in compliance with the treatment and discharge requirements for CSSF conditions when average rates are within the following:

    a. Not less than 0.90 times the rate required to receiveComplete Treatment;

    b. Not greater than 1.1 times the maximum rate permitted to be discharged from Outfall 001.

14. **"Place in Operation"** means to achieve steady state operation and to operate consistently in such a way as to accomplish the intended function, even though all construction close-out activities (such as completion of a punch list and resolution of contract disputes or close-outs) may not yet be complete.

15. **"Wet Weather Event"** means the condition that occurs as a result of storm water runoff, including snowmelt, entering or being conveyed in the CSS.

16. **"Grab Sample"** - An individual sample collected in less than 15 minutes.

17. **"At Outfall XXX"** - A sample location before the effluent joins or is diluted by any other waste stream, body of water, or substance or as otherwise specified.

18. **"Estimate"** - To be based on a technical evaluation of the sources contributing to the discharge including, but not limited to pump capabilities, water meters and batch discharge volumes.

19. **"i-s"** (immersion stabilization) - A calibrated device is immersed in the effluent stream until the reading is stabilized.

SECTION B. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS OUTFALL 002

Effluent limitations are based upon the design capacity of 370 mgd for Complete Treatment. During the period beginning on the effective date of the permit and lasting through the expiration date, the permittee is authorized to discharge from Outfall 002 to the Potomac River, subject to the following conditions, discharge limitations and monitoring requirements:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	(lb/day)		Other Units (specify)		Measurement Frequency	Sample Type
	Ave. Monthly	Ave. Weekly	Ave. Monthly	Ave. Weekly		
Flow/day (mgd) (1, 1a,)	N/A (2)	N/A	N/L (3)	N/L	Continuous	Measured
Carbonaceous Biological Oxygen Demand (5 day)	15,429	23,143	5.0 mg/l	7.5 mg/l	Daily	24-hour Composite
Total Suspended Solids (TSS)	21,600	32,400	7.0 mg/l	10.5 mg/l	Daily	24-hour composite
Total Phosphorus	555 (4)	1,080	0.18 mg/l (4)	0.35 mg/l	Daily	24-hour composite
Ammonia Nitrogen:						
Summer (5/1 – 10/31)	12,960	18,823	4.2 mg/l	6.1 mg/l	Daily	24-hour composite
Winter 1 (11/1 – 2/14)	34,253	45,670	11.1 mg/l	14.8 mg/l	Daily	24-hour composite
Winter 2 (2/15 – 4/30)	39,500	52,460	12.8 mg/	17.0 mg/l	Daily	24-hour composite
Dissolved Oxygen	5.0 mg/l minimum daily average. Not less than 4.0 mg/l at any time				Every 2 hours	
Total Residual Chlorine (mg/l) (6)	Non-detectable		Non-detectable		Every 2 hours	Grab
pH (s.u.) (7)	Within limits of 6.0 to 8.5 standard units				Continuous in-situ monitoring and recording	
Total Ortho-phosphate (mg/l)	N/A	N/A	N/L	N/L	Daily	24-hour composite
Alkalinity, total ($CaCO_3$) (mg/l)	N/A	N/A	N/L	N/L	Daily	24-hour composite
Hardness, total ($CaCO_3$) (mg/l)	N/A	N/A	N/L	N/L	Daily	24-hour composite
Nitrite (NO_2) (mg/l)	N/A	N/A	N/L	N/L	Daily	24-hour composite

Nitrate (NO_3) Total Kjeldahl	N/A	N/A	N/L	N/L	Daily	24-hour composite
Nitrogen (mg/l) (10)	N/A	N/A	N/L	N/L	Daily	24-hour composite
Total Nitrogen (mg/l) (10)					Daily	24-hour composite
Cadmium (dissolved) (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24-hours
Copper (dissolved (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24-hours
Iron (dissolved) (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24 hours
Mercury (total recoverable) (8)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24 hours
Lead (dissolved) (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24 hours
Nickel (dissolved) (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24 hours
Zinc (dissolved) (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24 hours
PCBs (12)	N/A	N/A			2 wet and 2 dry weather samples quarterly	24-hour composite
E. coli (maximum 30-day geometric mean for 5 samples minimum)	N/A	N/A	126 cfu/100 ml Geometric mean	N/L	1 /day	Grab

(1)Conditions and limitations for flows discharged from Outfall 002 shall be as follows:

Flow Condition and Period	**Times**	**Measured Influent Flow Rates to Receive Complete Treatment**
A. DWF, through permit expiration date	**All times**	**Up to and including 511 mgd**
B. CSSF		
1. From effective date of permit and following placing ECF in operation unless otherwise authorized or approved by EPA	First 4 hours After 4 hours	Up to and including 555 mgd Up to and including 511 mgd
2. Until Completion of Nitrification Denitrification Facilities upgrade, but no later than March 1, 2011	First 4 hours After 4 hours	Up to and including 511 mgd Up to and including 450 mgd
3. During construction of improvements to existing nitrogen removal facilities, period(s) to be determined by permittee and EPA from completion of design and construction schedules for the length of time required for such construction, but no later than July 14, 2014.	First 4 hours After 4 hours	Up to and including 511 mgd Up to and including 450 mgd
4. During construction of the ECF and tie-ins to the existing facilities. Periods to be determined by permittee and EPA from completion of design and construction schedules.	First 4 hours After 4 hours	Up to and including 511 mgd Up to and including 450 mgd

(1a) Flows reported for locations required under this permit are based on flows metered by the Blue Plains metering system. This system produces information to report flows by direct metering or through calculations using the results from multiple meters.

(2) N/A Not Applicable

(3) N/L No Limit, monitoring only

(4) The phosphorus limitation of 0.18 mg/l is based on the Potomac Strategy Management Commission Agreement and the best technical information available at the time of permit issuance. In addition, based upon available data of full plant BNR process operation, the monthly average is expressed as a 12 month rolling average. In any 12 month period no one month may exceed a mass of 1080 lbs/day and 0.35 mg/l. During full plant BNR, the 12 month rolling average mass for a month shall be the total mass for the month plus the total mass for the previous eleven (11) months divided by the total number of days in the 12 month period. The 12 month rolling average concentration for a month shall be the total mass for the 12 month period divided by the average daily flow (in mgd) for the 12 month period times 8.34. No single month in any 12 month period used to calculate a 12 month rolling average shall exceed a monthly average limit of 490 kg/day (1080 lb/day) and 0.35 mg/l.

(5) Continuous in situ monitoring and recording of dissolved oxygen shall continue. The monitoring requirements shall be understood to require twelve (12) readings from the continuous recording per day.

(6) When the total residual chlorine (TRC) analysis of the final effluent at Outfall 002 results in a detectable measurement, the permittee shall take steps to achieve a non-detectable TRC concentration. See Special Condition Part IV Section C.

(7) The permittee is required to be in compliance with the pH limitations specified above for 99% of the time for any calendar month. The total excursion time allowed for any calendar month is 7 hours, 26 minutes and no individual excursion shall exceed 60 minutes.

(8) The permittee shall sample the effluent for mercury using the most sensitive test Method 1631 E. The method detection limit, and the method used to perform the mercury analysis shall be submitted with the discharge monitoring reports.

(9) The permittee shall monitor the effluent at Outfall 002 for the metals listed above in accordance with the conditions set forth below. Report results in micrograms per liter.

a. The permittee shall test for additional metals, and priority pollutants (Appendix A to 40 C.F.R. Part 423) twice in five (5) years during the term of this permit. One such testing shall be in the third year of the permit and the second shall be in the last year of the permit.

b. All analytical methods will be EPA approved methodologies found in 40 C.F.R. Part 136.

c. The quantification level (QL) shall be the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method. Usually, units for the QL are in micrograms per liter.

d. Permittee shall analyze each grab sample and report the average of the four samples. Alternatively, the permittee may prepare a composite of the grab samples in the laboratory by proportioning to flow and analyze the laboratory composite sample.

(10) As provided in Part IV Section D of this permit, the permittee shall operate the plant, including the nitrogen removal process to meet the total nitrogen effluent limit of not more than 4,377,580 pounds per year which is assigned to Outfall 002.

Total nitrogen concentration shall be the sum of organic nitrogen, ammonia nitrogen and (NO2 +NO3) - N concentrations (e.g., Total Nitrogen = Total Kjeldahl nitrogen + No_2 as N + No_3 as N).

The total nitrogen effluent for Outfall 002 shall be calculated on a daily basis as the mass load in pounds per day derived from the daily total nitrogen concentration from Outfall 002, times the associated daily flow. The daily total nitrogen mass load shall be summed during each calendar year to determine the annual mass load.

(11) The Permittee shall report any substantial changes in the volume or character of pollutants being introduced into the POTW.

(12) See Part IV.F, Special Conditions for additional PCB monitoring requirements.

PART I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

SECTION C. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS OUTFALL 001

Discharge from Outfall 001 to the Potomac River is approved as an anticipated bypass, provided the permittee is in compliance with the LTCP implementation schedule requirements of the March 23, 2005 Consent Decree entered into in United States v. DCWASA, et al, Consolidated Civil Action No. 1:CV00183TFH and any supplements or modifications thereto and subject to the following conditions, discharge limitations and monitoring requirements. Beginning from the effective date of this permit and lasting through the expiration date, Influent Flow discharged from Outfall 001 shall receive treatment as follows:

a. Excess Flow Treatment (EFT) until the ECF is placed in operation.

b. After the ECF is placed in operation, Influent Flow shall receive treatment in the ECF followed by disinfection and dechlorination.

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	Kg/day (lb/day)		Other Units (specify)		Measurement Frequency	Sample Type (6)
	Ave Monthly	Ave Weekly	Ave Monthly	Ave Weekly		
Flow/discharge (mgd) (1) (1a)	N/A	N/A (2)	N/L (3)	N/L	Continuous	Measured
Carbonaceous Biochemical Oxygen Demand (5-day)	N/A	N/A	N/L	N/L	Per discharge	Composite (4)
Total Suspended Solids (TSS)	N/A	N/A	N/L	N/L	Per discharge	Composite (4)
pH (s.u.)	N/A	N/A	N/L	N/L	Per discharge	Composite (4)
PCBs (9)					2 wet weather per quarter	Grab
E.coli – (cfu/100 ml)	N/A	N/A	N/L	N/L	Every 8 hours, not less than one sample per discharge	Grab
Total Residual Chlorine (mg/l) (5)	Non-detectable		Non-detectable		Every 2 hours, not less than one sample per discharge	Grab
Total Nitrogen (10)	N/A	N/A	N/L	N/L	Per discharge	Composite (4)
Total Phosphorus	N/A	N/A	N/L	N/L	Per discharge	Composite (4)

(1)Conditions and limitations for Influent Flow discharged from Outfall 001 shall be as follows:

FLOW CONDITION AND PERIOD	TIMES	MEASURED FLOW RATES FOR OUFALL 001
A. DWF	All times	No discharge permitted
B. CSSF		
1. From effective date of permit and lasting until ECF is placed in operation.	All times	Up to and including 336 mgd above rates to receive complete treatment under Part I.B for Outfall 002
2. Following ECF being placed in operation, for emptying the BPT under an operating routine that provides for:	All times	Up to a maximum of 225 mgd
a. Conveying flow from the BPT through the ECF or transfer to complete treatment;		
b. Regulating the discharge of ECF effluent to maintain a rate of 511 mgd through complete treatment while optimizing conditions for maintaining the availability of the storage volume in the BPT such as that the occurrence of CSOs is minimized;		
c. No discharge of flow from the BPT from Outfall 001 when DWF conditions exist; and		
d. Limiting discharge of ECF effluent from Outfall001 to a maximum rate of 225 mgd; provided that any discharge of ECF effluent from Outfall 001 shall not occur except for the purpose of maintaining the availability of storage volume in the BPT to the extent that the occurrence of CSOs is minimized.		

(1a) Flows reported for locations required under this permit are based on flows metered by the Blue Plains metering system. This system produces information to report flows by direct metering or through calculations using the results from multiple meters.

(2) N/A means not applicable.

(3) N/L means no Limit, monitoring only.

(4) Collect one grab sample every two (2) hours and flow composite samples during each calendar day discharge. Analyze and obtain the concentration of the composited sample obtained each calendar day. Determine the mass load discharged for each day using the daily

concentration and the average flow rate recorded for that calendar day. Sum the daily mass loads obtained each calendar year to obtain the total mass load discharged in the calendar year.

(5) See Part IV, Section C for additional Chlorination/Dechlorination monitoring requirements.

(6) All pollutant sampling shall commence no later than two (2) hours after a discharge has begun to occur at Outfall 001. Samples are not required for discharges lasting less than two (2) hours. The two hour delay does not apply to flow monitoring.

(7) Authorization of CSO-related bypasses under this provision may be modified or terminated when there is a substantial increase in the volume or character of pollutants being introduced into the POTW.

(8) Permittee shall provide notice to the permitting authority of the discharges for Outfall 001 within 24 hours of the commencement of the discharge.

(9) See Part IV, Section F for additional PCB monitoring and reduction requirements.

(10) After the ECF is placed in operation, the permittee shall evaluate performance in accordance with Part III.D.4.a. through e. The performance assessment for Outfall 001 shall be submitted with each application for permit reissuance.

SECTION D. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS OUTFALL 019[1]

Outfall 019 is the discharge from the Northeast Boundary Swirl Concentrator Facility to the Anacostia River. Treatment includes: screening, swirl concentration, chlorination and dechlorination. These effluent limitations and monitoring requirements become effective from issuance date through the expiration date of this permit. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	Kg/day (lb/day)		Other units (specify)		Measurement Frequency	Sample Type (6)
	Ave Monthly	Ave Weekly	Ave Monthly	Ave Weekly		
Flow/day (mgd)	N/A (2)	N/A	N/L (3)	N/L	Continuous	Measured
Total Suspended Solids (mg/l)	N/A	N/A	N/L	N/L	Per discharge	Composite (4)
E.coli (cfu/100 ml)	N/A	N/A	N/L	N/L	Every 8 hours, first sample within 2 hours of beginning of discharge	Grab
Total Residual Chlorine (mg/l) (5)	N/A	N/A	N/L	N/L	Every 2 hours	Grab
Nitrate(NO_3) Total Kjeldahl Nitrogen (7)	N/A	N/A	N/L	N/L	per discharge	24-hr. Composite (4)
Total Nitrogen	N/A	N/A	N/L	N/L	per discharge	24-hr. Composite (4)
Total Phosphorus	N/A	N/A	N/L	N/L	per discharge	24-hr. Composite (4)
Carbonaceous Biological Oxygen Demand	N/A	N/A	N/L	N/L	Per Discharge	Composite (4)

(2) The Northeast Boundary Swirl Facility operates during wet weather events that produce flows which exceed the capacity of the upstream Eastside Interceptor. The facility provides treatment for up to 400 mgd of combined sewer overflow. The facility provides screening of influent combined sewage, concentration of solids in the swirl tanks, and disinfection and

dechlorination of effluent. The concentrated, solids-bearing underflow from the swirl is pumped by the Eastside Pumping Station to the Blue Plains Wastewater Treatment Plant.

(2) N/A Not Applicable

(3) N/L No Limit, monitoring only

(4) Collect one grab sample every two (2) hours beginning within 2 hours of the start of the discharge, composite samples up to a maximum of 24 hours. Permittee shall analyze the composited sample. If the permittee is unable to collect the first sample within 2 hours of the start of the discharge permittee shall explain in writing why it was unable to collect the required sample. The monthly average shall be determined by dividing the daily average event or events concentration by the total number of days the event(s) occurred per month.

(5) See Part IV.C for additional Chlorination/Dechlorination monitoring requirements.

(6) All sampling shall commence no later than two (2) hours after a discharge has begun to occur at Outfall 019. Samples are not required for discharges lasting less than (2) two hours. The two hour delay does not apply to flow monitoring, which is required to be continuous.

(7) The permittee may either monitor for TKN or Ammonia, whichever sampling is currently being performed.

Note: The rate of flow necessary to trigger the Northeast Boundary Swirl is 15 mgd. The purpose of this facility is to achieve maximum diversion of flow at the Structure 24 Dams on the Northeast Boundary Sewer, and to concentrate the pollutants in that flow to a smaller flow which can be handled by the available capacity of the Eastside Pump Station. The North East Boundary Swirl Facility has a total design flow rate of 400 mgd.

PART II. STANDARD CONDITIONS FOR NPDES PERMITS

SECTION A. GENERAL CONDITIONS

1. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and may result in an enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

2. Water Quality Standards Compliance

Consistent with the Clean Water Act, Section 301(b)(1)(C), the permittee may not discharge in excess of any limitation necessary to meet applicable water quality standards including those of the District of Columbia set forth in Chapter 21 of the District of Columbia Municipal Regulations, Chapter 11 (2006).

The limitations and conditions in this permit for the discharges from Blue Plains and the CSS are limitations that are necessary to meet the applicable water quality standards, including those of the District of Columbia referenced above.

3. Penalties for Violations of Permit Conditions

a. Criminal Penalties

i. Negligent Violations. Section 309(c) (1) of the Clean Water Act (CWA), 33 U.S.C. § 1319(c) (1), provides that any person who negligently violates any permit, condition or limitation implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the CWA, is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than 1 year or both.

ii. Knowing Violations. Section 309(c)(2) of the CWA, 33 U.S.C. § 1319(c)(2), provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the CWA is subject to a fine of not less than $5,000 nor more than $50,000 per day of violation, or by imprisonment for not more than 3 years or both.

iii. Knowing Endangerment. Section 309(c)(3) of the CWA, 33 U.S.C. § 1319(c)(3), provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the CWA, and knows at the time that he is placing another person in imminent danger of death or serious bodily injury is subject to a fine of not more than $250,000, or by imprisonment for not more than 15 years or both.

iv. False Statement. Section 309(c)(4) of the CWA, 33 U.S.C. § 1319(c)(4), provides that any person who knowingly makes any false material statement, representation or certification in any application, record, report, plan or other document filed or required to be maintained under the Act or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the Act, shall upon conviction, be punished by a fine of not more than $10,000 or by imprisonment for not more than 2 years, or by both. If a conviction is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years or by both. False statements concerning matters with the jurisdiction of a federal agency are also punishable pursuant to 18 U.S.C. § 1001 by a prison term of up to five years, a fine imposed under Title 18, Crimes and Criminal Procedure, of the United States Code, or both.

b. Civil Penalties

i. The CWA provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 318 or 405 of the Act is subject to a civil judicial penalty not to exceed $37,500 per day for each violation.

c. Administrative Penalties.

i. The CWA provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the Act is subject to an administrative penalty as follows:

(a) Class I Penalty. Section 309(g)(2)(A) provides that a civil penalty shall not exceed $16,000 per violation nor shall the maximum amount exceed $37,500.

(b) Class II Penalty. Section 1319(g)(2)(A) provides that a civil penalty shall not exceed $16,000 per violation nor shall the maximum amount exceed $177,500.

4. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

5. Permit Actions

In accordance with 40 C.F.R. § 122.62, this permit may be modified, revoked and reissued, or terminated for cause including, but not limited to, the following:

a. Violation of any terms or conditions of this permit;

b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge;

d. Information newly acquired by the Agency, and which was unavailable at the time of reissuance, and would have justified the application of different permit conditions at the time of issuance, including but not limited to the results of the studies, planning, or monitoring described and/or required by this permit;

e. Facility modifications, additions, and/or expansions;

f. Any anticipated change in the facility discharge, including any new significant industrial discharge or changes in the quantity or quality of existing industrial discharges that will result in new or increased discharges of pollutants; or

g. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. When a permit is modified, only conditions subject to modification are reopened.

6. Toxic Pollutants

Notwithstanding Section A.4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition and the permittee so notified.

The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

7. Civil and Criminal Liability

Except as provided in permit conditions on "Bypassing" (Section B.2) and "Upsets" (Section B.3), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

8. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

9. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

10. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

11. Severability

The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

12. Transfer of Permit

In the event of any change in ownership or control of facilities from which the authorized discharge emanates, the permit may be transferred to another person if:

a. The current permittee notifies the EPA, in writing, of the proposed transfer at least 30 days in advance of the proposed transfer date;

b. The notice includes a written agreement, between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them; and

c. The EPA does not notify the current permittee and the new permittee of intent to modify, revoke and reissue, or terminate the permit and require that a new application be submitted.

13. Construction Authorizations

This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities or the undertaking of any work in any navigable waters.

14. Reopener Provision

This permit may be modified or revoked and reissued as provided pursuant to 40 CFR § 122.62 and § 124.5 to:

a. include new or revised conditions developed to comply with any State or Federal law or regulation that addresses CSOs that is adopted or promulgated subsequent to the effective date of this permit. This includes, but is not limited to: Water Quality Standards and Total Maximum Daily Loads (TMDLs);

b. to include new or revised conditions if new information, not available at the time of permit issuance, indicates that CSO controls imposed under the permit have failed to ensure the attainment of State WQS;

c. include new or revised conditions based on new information resulting from implementation of the Long Term Control Plan (LTCP) referenced at Part III.C of this permit.

d. include new or revised conditions based on the results of Endangered Species Act Section 7 consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (FWS, NMFS or collectively, the "Services").

In addition, this permit may be modified or revoked and reissued for any reason specified in 40 C.F.R. §122.62.

15. Endangered Species

The United States Fish and Wildlife Service (FWS) has indicated that there are no Federally listed threatened or endangered species subject to its jurisdiction downstream of the Blue Plains outfalls, in the vicinity of the Potomac River in the District of Columbia and Maryland. The National Marine Fisheries Service (NMFS) has indicated that the endangered shortnose sturgeon occurs in the Potomac River, including within the District of Columbia and that several species of endangered sea turtles (leather back sea turtles, loggerhead turtles, Kemp's ridley and green sea turtles),are known to be present in the Chesapeake Bay. Pursuant to Section 7 of the Endangered Species Act, EPA and NMFS have consulted on this permit and NMFS has concurred with EPA's determination that that issuance of the permit is "not likely to adversely affect" listed species under NMFS jurisdiction. Wastewater discharges, construction, or any other activity that adversely affects a federally listed endangered or threatened species are not authorized under the terms of this permit.

The permit limits and monitoring required by this permit will allow further evaluation of potential effects on the threatened and endangered species. EPA requires that the permittee submit to NMFS an annual compilation of the Discharge Monitoring Reports (DMRs), which may be used by NMFS to further assess effects on endangered or threatened species. If these data indicate it is appropriate, requirements of this NPDES permit may be modified to prevent adverse impacts on habitats or endangered and threatened species.

The set of DMRs for the calendar year are to be submitted by February 15 of the following year to:

The National Marine Fisheries Service
Protected Resource Division
1 Blackburn Drive
Gloucester, MA 01930
Attention: Danielle Palmer

DC Department of the Environment
Fisheries and Wildlife Division
1200 First, N.E. 5th floor
Washington, DC 20002
Attention: Sylvia Whitworth

SECTION B. OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance

The permittee shall at all times properly operate, inspect and maintain all facilities and systems of treatment and control (and related appurtenances, including but not limited to, sewers, intercepting chambers, interceptors, combined sewer overflows, pumping stations and emergency bypasses) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation and maintenance of back-up or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit.

2. Bypass of Treatment Facilities

a. Definitions

i. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.

ii. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass.

b. Bypass not exceeding limitations

i. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs c. and d. of this section.

c. Notice

i. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.

ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section D.6 (24-hour notice).

d. Prohibition of bypass.

i. Bypass is prohibited and the EPA may take enforcement action against a permittee for bypass, unless:

(a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(c) The permittee submitted notices as required under Paragraph 2.c of this section.

ii. The EPA may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in paragraphs (a), (b), and (c) of this section.

3. Upset Conditions

a. Definition: "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

b. Effect of an upset: An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Paragraph 3.c of this section are met. Administrative determination by the Agency on upset claims of the permittee, made before commencement of an action for noncompliance, are not final administrative actions and therefore subject to judicial review.

c. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:

i. An upset occurred and that the permittee can identify the cause(s) of the upset;

ii. The permitted facility was at the time being properly operated;

iii. The permittee submitted notice of the upset as required in Section D.6; and

iv. The permittee complied with any remedial measures required under Section A.3.

d. Burden of proof: In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

SECTION C. MONITORING AND RECORDS

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points as defined at Part II, Section C.11 of this permit. Monitoring points shall not be changed without notification to and the approval of the EPA.

2. Flow Measurements

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to insure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to insure that the accuracy of the measurements is consistent with the accepted capability of that type of device.

3. Monitoring Procedures

Monitoring must be conducted according to test procedures approved under 40 C.F.R. Part 136, unless other test procedures have been specified in this permit. Monitoring data required by this permit shall be summarized on an average monthly or 7 consecutive day basis or as indicated for Mercury in Part I.B. Calculations shall be based on the average daily flow.

4. Reporting of Monitoring Results

Monitoring results must be reported on a Discharge Monitoring Report (DMR)form(EPA No. 3320-1). DMRs shall be submitted to EPA on a monthly basis. Monitoring results obtained during the previous month shall be summarized and reported on a DMR form postmarked no later than the 28th day of the following month. Copies of DMRs signed and certified as required by Section D.10, and all other reports required by Part II, Section D, Reporting Requirements shall be submitted to the EPA and to the District of Columbia Department of the Environment (DC DOE) at the following addresses:

U.S. Environmental Protection Agency, Region III
NPDES Discharge Monitoring Reports (3WP31)
1650 Arch Street
Philadelphia, Pennsylvania 19103

and

DC Department of the Environment
Water Quality Division
1200 1st Street
N.E., 5th Floor,
Washington DC 20002

In addition, in accordance with Part II.A.14 above, by February 15 of the subsequent year, all DMRs for the previous year shall be sent to the NMFS.

5. Monitoring and Analytical Equipment Maintenance

The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals frequent enough to insure accuracy of measurements and shall insure that both calibration and maintenance activities will be conducted.

6. Analytical Quality Control

An adequate analytical quality control program, including the analyses of sufficient standards, spikes, and duplicate samples to insure the accuracy of all required analytical results, shall be maintained by the permittee or designated commercial laboratory.

7. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 C.F.R. 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR form. Such frequency shall also be indicated.

8. Retention of Records

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. Records for sewage sludge monitoring shall be retained in accordance with Part IV, Section B of this permit. These periods may be extended by request of the EPA at any time.

9. Record Contents

Records of monitoring information shall include:

a. The date, exact place, time and methods of sampling or measurements;

b. The individual(s) who performed the sampling or measurements;

c. The date(s) analyses were performed;

d. The individual(s) who performed the analyses;

e. The analytical techniques or methods used; and

f. The results of such analyses.

10. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

a. Enter upon the permittee's premises where a regulated facility activity is located or conducted, or where records must be kept under the conditions of this permit.

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit;

d. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

SECTION D. REPORTING REQUIREMENTS

1. Planned Changes

The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. The permittee may submit to the permitting authority requests for modification of this provision in accordance with future promulgated regulations.

2. Anticipated Noncompliance

The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. Transfers

This permit is not transferable to any person except after notice to EPA as specified in Part II, Section A, Paragraph 11. EPA may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Clean Water Act. Any transfer must otherwise be in accordance with 40 C.F.R. §122.61.

4. Monitoring Reports

Monitoring results shall be reported at the intervals and in the form specified in Part II, Section C, Paragraph 4 (Reporting of Monitoring Results).

5. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date. Any reports of noncompliance must include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

6. Twenty-Four Hour Reporting

The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the noncompliance. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the noncompliance. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; the steps taken or planned to reduce, eliminate, prevent recurrence of the noncompliance, and the steps taken to minimize any adverse impact to navigable waters. The following shall be included as information which must be reported within 24 hours:

a. Any unanticipated bypass which exceeds any effluent limitation in the permit.

b. Any upset which exceeds any effluent limitation in the permit.

c. Violation of a maximum daily discharge limitation for any of the pollutants listed by EPA in the permit, to be reported to EPA within 24 hours.

The EPA may waive the written report on a case-by-case basis if the oral report has been received within 24 hours and the EPA determines that the noncompliance does not endanger health or the environment.

7. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Section D, Paragraphs 1, 4, 5, and 6 at the time monitoring reports are submitted. The reports shall contain the information listed in Paragraph 6.

8. Duty to Provide Information

The permittee shall furnish to the EPA, within a reasonable time, any information which the EPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the EPA, upon request, copies of records required to be kept by this permit.

9. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. 40 C.F.R. §122.21(d). The application shall be submitted at least 180 days before the expiration date of this permit. The Director may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date. In the event that a timely and complete reapplication has been submitted and the Director is unable, through no fault of the permittee, to issue a new permit before the expiration date of this permit, the terms and conditions of this permit are automatically continued and remain fully effective and enforceable.

10. Signatory Requirements

All applications, reports or information submitted to the Director shall be signed and certified as required by 40 C.F.R. 122.22. Knowingly making false statements, representations, or certifications is subject to penalty.

11. Availability of Reports

Unless a confidentiality claim is asserted pursuant to 40 C.F.R. Part 2, all reports submitted in accordance with the terms of this permit shall be available for public inspection at the offices of the Director. If a confidentiality claim is asserted, the report will be disclosed only in accordance with the procedures in 40 C.F.R. Part 2. As required by the Act, permit applications, permits and effluent data shall not be considered confidential.

12. Penalties for Falsification of Reports

The Clean Water Act at Section 309 (c)(4), provides that any person who knowingly makes any false representation or certification in any record or other document filed or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, shall, upon a first conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than 2 years, or by both. For a conviction of a person for a violation committed after a first conviction of such person, punishment shall be by fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or both.

13. Correction of Reports

If the permittee becomes aware that it submitted incorrect information in any report to the Director, it shall promptly submit the correct information.

SECTION E. PUBLIC ACCOUNTABILITY

The permittee shall undertake an overall program of public accountability, including quarterly summary reports to inform all users of the sanitary system and local government officials and the general public of the extent of actual compliance with permit requirements and conditions. To facilitate public information, the permittee shall use available means such as posting quarterly summary reports on its website, inserts with water and sewer bills or other means to distribute this information to the public. In addition, the permittee shall include in this report information on the efficacy of all(on and off site) operations used in the disposal of sludge from the Blue Plains WWTP. Reports shall be provided to at least the following:

Secretary, Maryland Department of the Environment
Executive Director, Virginia Dept. of Environmental Quality
Director, DC Department of the Environment
Chief of Maintenance, National Park Service
Director, Interstate Commission of the Potomac River Basin
Director, Metropolitan Washington Council of Governments
Director, Water Protection Division, US EPA, Region III

PART III. COMBINED SEWER SYSTEM

SECTION A. GENERAL

The permittee operates a Combined Sewer System (CSS). The CSS includes the combined sewer overflow (CSO) and other Outfalls listed below as indicated by footnotes. During the period beginning with the permit effective date and lasting until the permit expiration date, the permittee is authorized to discharge from the CSOs listed below, as specified in the following paragraphs and sections.

Outfall (1)	Overflow Structure Location	Receiving Stream	Latitude and Longitude (approximate)
003	Bolling AFB	Potomac River	N 38 49 51 W 77 01 32
004 (2)	Emergency relief for Poplar Point Sewage Pumping Station, SE	Anacostia River, East Side	N 38 51 57 W 77 00 18
005	Chicago Street and Railroad Station, SE	Anacostia River, East Side	N 38 52 08 W 76 59 36
006	Good Hope Road, West Of Nichols Ave.,SE	Anacostia River, East Side	N 38 52 16 W 76 59 28
007	13th Street and Ridge Place,SE	Anacostia River, East Side	N 38 52 16 W 76 59 19
008 (2)	Anacostia Ave. west of Blaine St. NE – relief for Anacostia Main Interceptor	Anacostia River, East Side	N 38 53 29 W 76 57 46
009	2nd Street, 300 feet North of N Place, SE	Anacostia River, West Side	N 38 52 21 W 77 00 15
010	O Street Sewage Pumping Station, SE	Anacostia River, West Side	N 38 52 23 W 77 00 14
011	South of Main Sewage Pumping Station, SE (pumped overflow)	Anacostia River, West Side	N 38 52 22 W 77 00 17
011a	South of Main Sewage Pumping Station, SE (gravity overflow)	Anacostia River, West Side	N 38 52 22 W 77 00 17
012	North of Main Sewage Pumping Station, SE	Anacostia River, West Side	N 38 52 22 W 77 00 09

013	4th and N Streets, SE	Anacostia River, West Side	N 38 52 22 W 77 00 09
014	6th and M Streets, SE	Anacostia River, West Side	N 38 52 23 W 76 59 09
015	9th and M Streets, SE	Anacostia River	N 38 52 18 W 76 59 38
016	12th and M Streets, SE	Anacostia River, West Side	N 38 52 20 76 59 28
017	14th and M Streets, SE	Anacostia River	N 38 52 31 W 76 59 28
018	Barney Circle and Pennsylvania Ave, SE	Anacostia River	N 38 52 39 W 76 58 57
019	NE Boundary Trunk, Vic. Of 25th and E Sts., SE	Anacostia River, West Side	N 38 52 21 W 77 00 09
020	23rd Street, North of Constitution Ave, NW	Potomac River, East Side	N 38 53 10 W 77 03 03
021	Northeast of Roosevelt Bridge, NW	Potomac River, East Side	N 38 53 19 W 77 03 11
022	27th and K Streets, NW	Potomac River, East Side	N 38 53 52 W 77 03 27
023	Abandoned (Formerly 29th And K Streets, NW)	Potomac River, East Side	Not Available
024	30th and K Streets, NW	Potomac River, East Side	N 38 54 05 W 77 03 31
025	31st and K Streets, NW	Potomac River, East Side	N 38 54 03 W 77 03 44
026	Wisconsin Avenue and K St., NW	Potomac River, East Side	N 38 54 06 W 77 03 47
027	Water Street West of Street, NW	Potomac River, East Side	N 38 54 13 W 77 03 57
028	36th and M Streets, NW	Potomac River, East Side	N 38 54 13 W 77 04 18
029	Canal Road 1000 feet east of Rock Creek, NW	Potomac River, East Side	N 38 49 00 W 77 01 40
030	Abandoned (Formerly Foxhall and Canal Roads, NW)	Potomac River, East Side	Not Available
031	Pennsylvania Avenue, East Rock Creek, NW	Rock Creek, East Side	N 38 54 23 W 77 03 22
032	26th and M Streets, NW	Rock Creek, East Side	N 38 54 22 W 77 03 17
033	N Street extended West of 25th Street,NW	Rock Creek, East Side	N 38 54 26 W 77 03 18

034	23rd and O Streets, SW	Rock Creek, East Side	N 38 54 36 W 77 03 05
035	22nd Street south of Q Street, NW	Rock Creek, East Side	N 38 54 33 W 77 03 00
036	22nd Street South of Q Street, NW	Rock Creek, East Side	N 38 54 38 W 77 03 06
037	Northwest of Belmont and Rock Creek and Potomac Parkway	Rock Creek, East Side	N 38 55 02 W 77 03 04
038	North of Belmont Road, east of Kalorama Circle, NW	Rock Creek, East Side	N 38 55 08 W 77 03 05
039	Connecticut Avenue East of Creek, NW	Rock Creek, East Side	N 38 55 18 W 77 02 56
040	Biltmore Street extended east of Rock Creek, NW	Rock Creek, East Side	N 38 55 40 W 77 02 43
041	Ontario extended and Rock Creek Parkway	Rock Creek, East Side	N 38 55 40 W 77 02 43
042	Harvard Street and Rock Creek Parkway, NW	Rock Creek	N 38 55 42 W 77 02 43
043	Adams Mill Road South of Irving Street, NW	Rock Creek, East Side	N 38 55 42 W 77 02 42
044	Kenyon Street and Adams Mill Road, NW	Rock Creek East Side	N 38 55 44 W 77 02 44
045	Adams Mill Road and Lamont Street, NW	Rock Creek, East Side	N 38 55 50 W 77 02 49
046	Park Road south of Piney Branch Parkway, NW	Rock Creek, East Side	N 38 56 06 W 77 02 45
047	Ingleside Terrace extended and Piney Branch Parkway	Rock Creek, East Side	N 38 56 10 W 77 02 36
048	Mt. Pleasant Street extended and Piney Branch Parkway	Rock Creek, East Side	N 38 56 15 W 77 02 23
049	Piney Branch and Lamont Street, NW	Rock Creek, East Side	N 38 56 12 W 77 02 19
050	28th Street west of 16th Street, NW	Rock Creek, East Side	N 38 54 14 W 77 03 23
051	Olive Street extended and Rock Creek Parkway,NW	Rock Creek, East Side	N 38 54 32 W 77 03 11
052	O Street extended and Rock Creek Parkway, NW	Rock Creek, West Side	N 38 54 31 W 77 03 16
053	O Street west of Rock Creek Parkway, NW	Rock Creek, West Side	N 38 55 18 W 77 01 40

054	West Side of Rock Creek 300 ft. south of Mass.Ave, NW	Rock Creek, West Side	N 38 54 34 W 77 03 02
055	Abandoned		
056	Normanstone Drive extended west of Rock Creek, NW	Rock Creek, West Side	N 38 55 02 W 77 03 04
057	28th Street extended West of Rock Creek, NW	Rock Creek, West Side	N 38 55 18 W 77 03 09
058	Connecticut Avenue and Rock Creek Parkway, NW	Rock Creek, West Side	N 38 55 16 W 77 03 02
059	Luzon Valley [SEPARATED]	Rock Creek, West Side	N 38 57 54 W 77 02 13
060	P St and 26th St, NW	Rock Creek, West Side	Not Available
061 (2)	Hayes St. & Anacostia Ave NE – Emergency relief for Upper Anacostia Sewage Pumping Station	Tributary to Anacostia – East Side	Not Available
062 (2)	Earl Place, NE - Emergency relief for Earl Place Sewage Pumping Station	Tributary to Anacostia – West Side	Not Available

(1) All outfalls are CSO outfalls unless noted otherwise.

(2) These outfalls are recognized in the permit as emergency relief locations; they are not CSO Outfalls. Discharges are prohibited under Part III.B.1.e(i) and are reportable under Part III.B.1.e(iii) and Part II.D.2 and 7.

SECTION B. TECHNOLOGY-BASED CSS REQUIREMENTS

The permittee is required to control combined sewer overflows in accordance with the CSO Policy (April 1994). The permittee shall comply with the nine minimum technology-based conditions set forth below.

1. Nine Minimum Controls (NMC) Program

a. Operation and Maintenance - The permittee shall implement proper operation and maintenance programs for the sewer system and all CSO outfalls, in accordance with the program set forth below, with consideration given to the following: regular sewer inspections, sewer, catch basin and regulator cleaning; equipment and sewer collection system repair or replacement, where necessary; and disconnection of illegal connections.

i. Maintain a CSS inventory. Prepare an inspection plan and submit updated inventory information with each annual report as follows:

(a) List of CSO outfalls and emergency relief locations from Part III,Section A, COMBINED SEWER SYSTEM - GENERAL of this permit.

(b) Combined Sewer Overflow Structures. Include designation, location, description of operation, capacity and diagram or drawing of each structure. Include similar information for each inflatable dam.

(c) Outfall Structures. Include designation, location and description of each structure Include a diagram or drawing and a picture as available and practicable. Describe outfalls characteristic at high and low tide (e.g., submerged, partially submerged, not submerged). Identify whether or not each structure is equipped with a tide gate.

(d) Supervisory Control and Data Acquisition (SCADA) System. Include a functional description, and list of information provided by the SCADA system for the CSS.

(e) Rain Gages. List location and description of rain gauges installed Within the CSS.

ii. Inspect CSS control structures (regulator structures and tide gates) at least once per month.

iii. Inspect pumping stations at least once per month.

iv. Inspect Northeast Boundary Swirl Facility at least once per month.

v. Inspect inflatable dams and CSS SCADA system at least once per month.

vi. Develop an inspection program for the major combined sewers where each major combined sewer is inspected on a rotating schedule of sufficient frequency to maintain capacity requirements.

vii. Inspect outfall structures annually.

viii. Following rehabilitation, operate and maintain the Main, "O" Street, Potomac and Poplar Point and Eastside Pumping stations to provide firm pumping capacities of 240 MGD, 45 MGD, 460 MGD, 45 MGD and 45 MGD respectively.

b. Use Collection System for Storage

i. Operate and maintain inflatable dams to optimize storage in the CSS.

c. Pretreatment Program

i. Use pretreatment regulations to control any industrial discharges that may be identified as impacting CSOs.

ii. Use pretreatment regulations to require permitted significant industrial users (SIUs) discharging directly to the CSS to establish management practices to limit (e.g., use of control, detention or prohibition) batch discharges during wet weather conditions to the maximum extent feasible. Conduct an annual inspection of the above users to identify the existence of any batch discharges. Evaluate batch discharges identified to determine whether and to what extent limitations are appropriate during wet weather, taking into consideration volume, frequency, characteristics and the need to protect life and property.

d. Maximize Flow to Blue Plains

i. During wet weather, operate the pumping stations and collection system to deliver the maximum flow possible to Blue Plains within the constraints of the pumping stations, configuration and capacity of the collection system, and the capacity of the treatment plant. Develop a reporting system to show that operation of the pumping stations has been maximized during wet weather and that the maximum flow possible is being delivered to Blue Plains for treatment within the constraints of the pumping stations, collection system and treatment plant. Report such operations for each wet weather event.

ii. Maintain pumps to maximize flow to Blue Plains.

iii. The permittee shall ensure that the collection system has the capacity to convey flows at a rate totaling at least 1076 mgd to Blue Plains for treatment.

e. Eliminate Dry Weather Overflows (DWOs)

i. Dry weather overflows from CSO outfalls are prohibited. When the permittee detects a dry weather overflow, the permittee shall begin corrective action immediately. The permittee shall inspect the dry weather overflow each subsequent day until the overflow has been eliminated.

ii. Maintain a program to enlist public support for reporting DWOs.

iii. Receive reports of DWOs on a 24-hour basis. Each dry weather overflow confirmed by the Permittee shall be reported to District of Columbia Department of the Environment (DDOE) and EPA Region III within 24 hours.

f. Control Solid and Floatable Materials in CSOs

i. Screen pumped overflows at the Main and O Street Pumping Stations.

ii. Screen flow into the Northeast Boundary Swirl Facility.

iii. Operate and maintain end of pipe solid and floatable BMP demonstration controls until termination of the demonstrations at locations as follows:

(a) End of pipe netting system at CSO Outfall 018. Bar rack at CSO Outfall 041 at Structure Number 62.
(b) Bar rack at CSO Outfall 040 at Structure 61.
(c) Inspect BMP demonstration controls at least once per month. Clean BMPs following wet weather events on a schedule that maintains capture functions.

iv. Clean 85 percent of the 8200 catch basins in the combined sewer area at least annually. Inspect catch basins in CSO areas tributary to the Anacostia River at least 2 times per year and clean more frequently as identified by inspections.

The Anacostia River CSO areas inspection schedule is an interim schedule until permanent solids and floatable control facilities are placed in operation as part of the Long Term Control Plan. As permanent facilities are placed in operation, in each combined sewer area, the permittee may petition EPA to reduce the cleaning frequency to once per year in that area.

v. Operate the Anacostia River Floatable Debris Removal Program. This program comprises pick up of debris by skimmer and support boats on a regular weekly schedule, weather and river conditions permitting.

vi. Advise the D.C. Department of Public Works (DPW) and the National Park Service (NPS) in writing at least once per year on methods and systems to maximize litter control in the CSS, targeting neighborhoods that contribute disproportionate amounts of trash to the CSS. Document these efforts in quarterly CSO reports.

vii. Implement an ongoing, appropriate bi-lingual (English and Spanish) public education program aimed at reducing litter in the CSO sewershed, including public service announcements, public school presentations and stenciling programs.

viii. Prepare lesson plan materials to educate school children on the ways and means for citizens to assist in reducing the amount of solid and floatable materials in CSOs. Make the materials available to D.C. Public elementary schools for their use. Offer to make presentations to schools on the lesson plan and the CSO program at up to 6 occasions per year.

g. Pollution Prevention

i. Conduct regular public education programs to advise citizens of proper disposal of substances (e.g., household wastes, plastics, paper products, oils, leaves and the use of fertilizer).

ii. Conduct tours of Blue Plains to educate public on aspects of CSO control that can be enhanced with public assistance.

iii. Use the pretreatment program to encourage industrial waste reduction through recycling and improved housekeeping.

iv. Notify responsible agencies to enforce regulations that prohibit entrance into the CSS of any substance that may impair or damage the function and performance of collection and treatment systems.

v. Coordinate where feasible and practicable WASA's pollution prevention programs with those of D.C. government agencies such as the following partial list of pollutant prevention programs conducted by District of Columbia government agencies:

(a) Department of Public Works Programs
(i) Curbside recycling
(ii) Leaf pickup

(iii) Public trash receptacles
(iv) Household hazardous waste collection
(v) Residential bulk refuse collection and self-Service disposal
(vi) Campaign against rats
(vii) Support of community cleanup programs ("Helping Hand")
(viii) Enforcement of illegal dumping operations
(ix) Street cleaning and sweeping
(x) Public education for DPW Solid Waste Education And Enforcement Program ("SWEEP")

(b) Department of Environment Programs

(i) Public education and assistance
(ii) Enforcement of storm water and erosion/sedimentation control regulations

h. Public Notification

i. Operate a light on the Anacostia River and a light on the Potomac River to notify river users of CSO events. Lights will be operated by a signal from a epresentative CSO outfall on each river. A light (color A) will be illuminated during a CSO occurrence and a second light (color B) will be illuminated for 24 hours after a CSO has stopped.

ii. Maintain a website with information on: (a) nature of CSO discharges; (b) locations of CSOs; (c) potential health threats of CSOs; (d) record of CSO events by outfall with number, average duration and volume for the prior three month calendar quarter based on modeled results; (e) description of light system on the Anacostia River and Potomac River that advises river users of times that CSOs are actually occurring; and (f) nature and duration of conditions potentially harmful to users of receiving waters during and after a CSO event.

iii. Prepare and distribute semi-annually in sewer bills an informational pamphlet with information similar to that listed under h.ii above.

iv. Distribute a pamphlet semi-annually to locations (e.g., boathouses, marinas, water sports shops) frequented by receiving water users. The pamphlet shall include information similar to that listed under h.i above. Distribution will be to the extent permitted by owners of the locations.

v. Prepare and maintain an information bulletin to distribute to callers requesting information on the CSS and CSOs.

vi. Include updates and status of CSS and CSO plans and programs in information distributed under h. i, ii, iii, and iv above.

vii. Maintain warning signs at all CSOs.

i. Monitoring

i. Operate and maintain the SCADA system that monitors activation of selected CSO outfalls.

ii. Monitor and record the condition of the bar racks at the Main and O Street Pumping Stations storm,/CSO pumps to assess their ability to trap floatables.

iii. Monitor and record debris removed by the Anacostia River Floatable Debris Removal Program.

iv. Monitor and record flow, screenings removal and disinfection and dechlorination at the Northeast Boundary (NEB) Swirl Facility.

v. Monitor and record demonstration floatables removal; (a) at the end of pipe netting system at Outfall 018; (b) at bar rack at Outfall 041; and c) at the bar rack at Outfall 040 for the duration of the demonstration project.

vi. Monitor and record rainfall at a minimum of four 4) locations in the CSS. Locate rain gages at sites which are different from those used in the development of the LTCP. Report the number, volume and average duration of overflows for each active CSO outfall. The information shall be prepared using the latest model of the CSS, based on the measured storm event data and the operation of the inflatable dams for the previous calendar year.

SECTION C. Water Quality Based Combined Sewer System (CSS) Requirements

1. The Long Term Control Plan (LTCP) for the District of Columbia CSS including supplements thereto, provides for the control of CSO discharges to comply with the District of Columbia water quality standards in the Anacostia River, Rock Creek and its Piney Branch tributary and the Potomac River.

2. The permittee shall implement and effectively operate and maintain the CSO controls identified in the LTCP and any supplements thereto.

3. The LTCP for the District of Columbia CSS provides for the control of CSO discharges to the Anacostia River, Rock Creek and its Piney Branch tributary and the Potomac River. The LTCP facilities for controlling discharges to the above-named receiving waters include, among other things, diversion structures, a system of underground storage tunnels, pumping stations and outfall and overflow structures. The facilities shall, within the capacities provided, divert combined sewer flows to the storage tunnels, store combined sewer flow and convey stored combined sewer flow to Blue Plains for treatment.

4. The permittee shall effectively operate and maintain the LTCP CSO control facilities in accordance with the limitations and conditions set forth below.

5. Discharges from CSO Outfalls and tunnel overflow structures are prohibited except during wet weather events when one or more of the following conditions exist:

   a. The associated tunnels serving individual CSO outfalls and tunnel overflow structures are filled to their design capacities.

   b. Combined sewer flow is being transferred from individual CSO outfalls to the associated storage tunnel or diversion sewer at not less than minimum diversion rates listed below.

6. Solids and floatables capture shall be provided for all overflows prior to discharge to receiving waters.

7. All combined sewer flow stored in the Anacostia River, Northeast Boundary, Piney Branch and the Potomac River storage tunnels shall be emptied in such a manner as to maximize treatment of the stored flows through complete treatment at Blue Plains and to optimize conditions for maintaining the availability of storage volume in the tunnels system.

8. Storage tunnels shall have minimum design capacities as follows:

   a. Anacostia River and Northeast Boundary Tunnels - 157 million gallons
   b. Piney Branch Tunnel - 9.5 million gallons
   c. Potomac River Tunnel - 58 million gallons

9. Minimum diversion capacities from CSO outfalls to storage tunnels or interceptors and monitoring of diversions shall be as follows:

   a. Anacostia CSO Control Systems

CSO Outfall	**Drainage Area**	**Minimum Diversion Capacity For CSO Control (mgd)**	**Diversion to Tunnel or Diversion Sewer**	**Monitoring**
005	Fort Stanton	22	Tunnel	(2)
006	Fort Stanton	to be separated	n/a	n/a

007	Fort Stanton	44	Tunnel	(3)
009	Canal Street	21	Tunnel	(2)
010and011	B St/NJ Ave	180	Tunnel	(3)
012	Tiber Creek	221	Tunnel	(3)
013	Canal Street Sewer	17	Tunnel	(2)
014	Navy Yard/M St.; 6th St-7th St	61	Tunnel	(2)
015	Navy Yard/M St.; 9th St	22	Tunnel	(2)
016 (1)	Navy Yard/M St.; 12th St - 9th St.	86	Tunnel	(2)
017 (1)	Navy Yard/M St.; 14th St to Penn Ave	65	Tunnel	(2)
018	Barney Circle	57	Tunnel	(2)
019	Northeast Boundary	1,160	Tunnel	(3)

b. Potomac CSO Control Systems

CSO Outfall	**Drainage Area**	**Minimum Diversion Capacity for CSO Control (mgd)**	**Diversion To Tunnel or Diversion Sewer**	**Monitoring**
020	Easby Point	297	Tunnel	(3)
021	Slash Run	530	Tunnel	(3)
022	I St - 22nd St. NW	333	Tunnel	(3)
024 (1)	West of Rock Creek Diversion Sewer	66	Tunnel	(2)

025 [1]	31st & K St NW	3	Tunnel	(2)
026 [1]	Water St Dist (WRC)	0	Tunnel	(2)
027 [1]	Georgetown	92	Tunnel	(2)
028 [1]	37th St. Georgetown	9	Tunnel	(2)
029	College Pond	133	Tunnel	(3)

c. Rock Creek CSO Control Systems

CSO Outfall	Drainage Area	Minimum Diversion Capacity for CSO Control (mgd)	Diversion to Tunnel or Diversion Sewer	Monitoring
031	Penn Ave	to be separated	n/a	n/a
032	26th St - M St	6	Interceptor	(4)
033	N St - 25th	5	Interceptor	(3)
034	Slash Run	6	Interceptor	(4)
035	NW Boundary	290	Interceptor	(4)
036	Mass Ave & 24th St	29	Interceptor	(3)
037	Kalamora Circle West	to be separated	n/a	n/a
038	Kalamora Circle East	5	Interceptor	(4)
039	Belmont Rd	28	Interceptor	(4)
040	Biltmore Rd	12	interceptor	(4)
041	Ontario Rd	14	Interceptor	(4)
042	Quarry Rd	19	Interceptor	(4)
043	Irving St	35	Interceptor	(4)
044	Kenyon St	4	interceptor	(4)
045	Lamont St	8	Interceptor	(4)
046	Park Rd	9	Interceptor	(4)
047	Ingleside Terr	10	Interceptor	(3)
048	Oak St/Mt Pleasant	11	Interceptor	(4)

049	Piney Branch	468	Tunnel	(3)
050	M St - 27th St	21	interceptor	(4)
051	Olive-29th St	4	Interceptor	(4)
052	O St - 31st St	56	Interceptor	(4)
053	O St	to be separated	n/a	n/a
054	West Rock Cr Diversion Sewer	(5)	Interceptor	(4)
055	Abandoned	n/a	n/a	n/a
056	Normanstone Dr	(5)	Interceptor	(4)
057	Cleveland - 28th St & Conn Ave	33	Interceptor	(3)
058	Conn Ave	to be separated	n/a	n/a
059	16th and Rittenhouse Sts, NW	Separated	n/a	(4)

(1) These outfalls have been consolidated. Diversion capacity listed is that required for CSO control.

(2) Diversion capacity validated by construction performance test, no additional monitoring required.

(3) Continuous flow measurement of diversion and outfall. Provision for temporary sampling on diversion and outfalls.

(4) Diversion capacities from the referenced outfalls have been estimated based on computer modeling.

(5) These CSOs are emergency reliefs for the West Rock Creek Diversion sewer. There is no tributary drainage area, and flow diversion does not occur at these CSOs. The performance of these CSOs will be validated by computer modeling, no additional monitoring required.

10. With each DMR, report operations of the monitored CSO control facilities by systems as follows:

    a. Volume into and out of storage tunnels;
    b. Diversion rates into storage tunnels;
    c. Discharge rates from outfalls;
    d. Start and end time of wet weather event;
    e. Time when storage tunnel became filled to minimum required capacity;

f. All discharges from outfalls occurring prior to storage tunnel being filled to minimum required capacity and at less than minimum required diversion rates;
g. Volume of overflows from outfalls;
h. Results of any overflow or diversion sampling.

SECTION D. POST CONSTRUCTION MONITORING

The permittee shall implement a phased post-construction monitoring program to obtain information on rainfall, the volume and character of overflows and receiving waters characteristics. The monitoring phases shall be as follows:

Phase	Post-Construction Condition
1	Following the placement in operation of the inflatable dams and pumping stations rehabilitation.
2	Following the placement in operation of the Anacostia, Rock Creek and Potomac storage tunnels, respectively, As each tunnel is placed in operation.
3	Following the placement in operation of the complete CSO tunnels storage system

1. Phase I monitoring shall be in accordance with the following:

CSO Systems

Monitoring Type	Anacostia River	Potomac River	Frequency (3)
Rainfall Monitoring (1)	1 gauge in Northeast Boundary 1 gauge in Tiber Creek	1 gauge in Slash Run	Continuous
CSO Overflow (flow and volume) (1)	Northeast Boundary CSO 019 B ST/NJ Ave pumped overflow CSO 010	Potomac Pumping Station CSO 021 College Pond CSO 024	Continuous
CSO Overflow Sampling (2)	1 sampling station at Northeast Boundary	n/a	4 storms minimum approximately 1 hr sample interval for each storm.
Receiving Water Monitoring - Dissolved Oxygen (4)	Continuous DO Monitors	Continuous DO Monitors	approximately 30 minute intervals

Receiving Water Monitoring - Bacteria, Field Parameters(2)(4)	Bacteria Samples	Bacteria Samples	4 storms minimum

(1) Temporary gauges, meters and samplers to be installed.
(2) Samples shall be analyzed for fecal coliform, E.coli, CBOD5 and TSS.
(3) Monitoring shall be conducted for a continuous period of 12 months.
(4) The permittee is responsible for submitting all data, however, it is acceptable to use data developed by other sources.

2. Phase 2 monitoring shall be in accordance with the following:

CSO Systems

Monitoring Type	**Anacostia**	**Potomac**	**Rock Creek**	**Frequency**
Rainfall Monitoring (1)	1 gauge in Northeast Boundary 1 gauge in Tiber Creek	1 gauge in Slash Run 1 gauge in College Pond	1 gauge in Piney Branch	Continuous
CSO Overflow Monitoring and Diversion to Storage Monitoring (2)	Northeast Boundary CSO 019 Fort Stanton CSO 007 B ST/NJ Ave Pumped Overflow CSO 010	Potomac Pumping Station CSO 021 College Pond CSO 029	Piney Branch CSO 049	Continuous
Tunnel Storage Level Monitoring (2)	1 sensor in Tunnel	1 sensor in tunnel	1 sensor in tunnel	Continuous
CSO Overflow Sampling (2) (3)	Sampling stations at Northeast Boundary CSO 019 and CSO 10	Sampling stations at CSO 020 and CSO 021	1 sampling station at CSO 049	4 storms minimum approx. 1 hour sample interval for each storm
Receiving Water Monitoring - Dissolved Oxygen (5)	Continuous DO monitors (5)	Continuous DO monitors (5)	n/a	approx. 30 minute intervals (5)

Receiving Water Monitoring - Bacteria, Field Parameters (3)	Use data from existing monitors and establish at least 6 other locations	Use data from existing monitors and establish at least 3 other locations	Use data from existing monitors and establish at least 7 other locations	once per week for bacteria and once per quarter for all other substances

(1) Temporary gauges to be installed.
(2) Shall use facilities and equipment installed as part of CSO control systems.
(3) Sampling shall be analyzed for fecal coliform, E.coli, mercury, arsenic, cadmium, total chromium, copper, lead, nickel, selenium, silver, zinc, chromium VI, hardness, cyanide, pesticides, PCBs, volatiles and semivolatiles, DO, ammonia as N, TKN, total phosphorus, and ortho-phosphorus. Metals shall be analyzed as dissolved and total recoverable.
(4) Monitoring shall be conducted for a continuous period of 12 months, in each CSO system after appropriate facilities are placed in operation.
(5) Permittee is responsible for submitting all data, however, it is acceptable to submit data provided by other sources.

3. Phase 3 monitoring shall be in accordance with the following:

CSO Systems

Monitoring Type	**Anacostia River**	**Potomac River**	**Rock Creek**	**Frequency (4)**
Rainfall Monitoring (1)	1 gauge in Northwest Boundary 1 gauge in Tiber Creek	1 gauge in Slash Run 1 gauge in College Pond	1 gauge in Piney Branch	Continuous
CSO Monitoring and Diversion to Storage Monitoring (2)	Northeast Boundary CSO 019 Fort Stanton CSO 007 B St/NJ Ave Pumped Overflow CSO 010	Potomac Pumping Station CSO 021 College Pond CSO 029	Piney Branch CSO 049	Continuous
Tunnel Storage Level Monitoring (2)	L sensor in Tunnel	1 sensor in Tunnel	1 sensor in tunnel	Continuous
CSO Overflow Sampling (2) (3)	Sampling stations at CSO 019 and CSO 010	Sampling stations at CSO 021 and 020	1 sampling station at CSO 049	4 storms maximum approx. 1 hour sample interval for each storm
Receiving water Monitoring - Dissolved Oxygen (5)	continuous DO monitors	continuous DO monitors	n/a	approx 30 minute intervals

Receiving water monitoring-bacteria, field parameters (3) (5)	establish at least 6 locations	Establish at least 6 locations	7 other locations	once per week for bacteria and once per quarter for all other parameters

(1) Temporary gauges will be installed.
(2) Shall use facilities and equipment installed as part of CSO control systems.
(3) Sampling shall be analyzed for fecal coliform, E.coli, CBOD5, TSS, the 126 priority pollutants, mercury, arsenic, cadmium, total chromium, copper, lead, nickel, selenium, silver, zinc, chromium VI, hardness, cyanide, pesticides, PCBs, volatiles, semi-volatiles, DO, ammonia as N, TKN, total phosphorus and ortho-phosphorus. Metals shall be analyzed as dissolved and total recoverable.
(4) Monitoring shall be conducted for a continuous period of 12 months.
(5) The permittee is responsible for submitting all monitoring data.

4. Results from the monitoring phases shall be used to assess the performance of CSO controls against predictions established as part of LTCP development and its supplements. Performance assessments shall be prepared by the permittee and submitted to EPA within 180 days of completion of a monitoring phase. In general, the assessments shall include:

a. Comparison of monitored overflow magnitude and duration with the LTCP predictions;
b. Comparison of monitored water quality in receiving waters with LTCP predictions;
c. Comparison of monitored CSO reductions with LTCP reductions;
d. Comparison of performance to TMDLs and allocations established for CSOs and approved bypasses in the receiving waters; and
e. Overall evaluation as to whether or not CSO controls are providing degree of control predicted for LTCP conditions and whether or not modifications or additions to the LTCP are required.

SECTION E. CSO STATUS REPORTS AND SCHEDULES

1. Progress reports are to be provided to EPA for all activities scheduled or completed in accordance with the terms of this permit. Such reports shall be submitted in quarterly and annual reports which summarize actions and activities undertaken to comply with Part III, Section B.1. and Part III, Section C of this permit (Nine Minimum Controls Program and the LTCP). Reports shall be submitted to EPA and DDOE as follows:

a. Submit quarterly reports on the 28th day of April, the 28th day of July, the 28th day of October and the 28th day of January. Reports shall summarize information through the last day of the month prior to the month in which the report is due. The first quarterly report shall be submitted for the first full quarter following the effective date of the permit.

b. Submit annual reports by March 31 of each year summarizing information for the previous calendar year. The first annual report shall be submitted for the first full year following the effective date of the permit.

2. Information submitted in reports shall, in general, be prepared in a tabular format giving dates, times and locations as applicable. The information to be reported of the Nine Minimum Controls Program shall include the following:

a. CSS Control Structures - Number of inspections conducted, conditions observed (e.g., function normal, blockages, malfunctions, repairs needed) and maintenance and repairs performed. For blockages observed provide: the location of blockage, date and time that the blockage was discovered, date and time blockage was corrected, and whether or not a discharge from the outfall to the receiving water was observed. If a discharge was observed, provide an estimate of discharge volume.

b. Pumping Stations - Number of inspections conducted, numbers of screens and pumps installed and numbers available for service; and preventative maintenance performed. For pumps found not to be available for service, permittee shall report the cause of unavailability, schedule for and status of repairs. For the Main and O Street pumping stations, report the results of visual wet weather surveys and record of overflow screenings.

c. Northeast Boundary Swirl Facility - Number of inspections conducted, number of screens and swirls installed and numbers available for service; and preventative maintenance performed. Report record of flow treated and screenings removed.

d. Inflatable Dams and SCADA System - Number of inspections conducted. Number of dams installed and number of dams operational. Occurrence of an overflow and approximate duration of overflow based on dams inflation status.

e. Major Combined Sewers - Upon development of inspection program. Inspections planned, inspections conducted, results of inspections and description and schedule for maintenance and repairs planned and performed.

f. Wet Weather Overflows - Report the modeled results of the number, volume and average duration of overflows for each active CSO outfall due to wet weather events.

g. Dry Weather Overflows - Are prohibited, however, in the event that they do occur, report their location, cause, date and time discovered, action taken, date and time discharge confirmed ceased and actions taken to prevent reoccurrence of the condition causing the overflow. Include an estimate of the overflow volume.

h. Catch Basin Cleaning - Number and location of catch basins required to be cleaned plus the number and location of catch basins actually cleaned.

i. Anacostia River Floatable Debris Removal Program - Number of boats available for service, number of cleaning trips, record of amount and nature of material removed.

j. BMP Demonstration for Solid and Floatable Control - Number of inspections conducted and conditions observed, and records of material removed at CSO outfalls 018, 040 and 041.

k. Other - Summarize actions and activities under programs for Pollution Prevention, Public Notification and Pretreatment.

l. Wet Weather Flows to Blue Plains WWTP - Upon development of a reporting system, report operations for each wet weather event.

m. CSS Litter Control - Number of meetings or conferences with DPW and NPS. Summary of topics discussed and actions adopted.

3. Report on the following quarterly:

a. Northeast Boundary Swirl Facility
b. Inflatable Dams and SCADA System
c. Dry Weather Overflows
d. CSS Control Structures
e. Pumping Stations
f. Wet Weather Flows to Blue Plains
g. Wet Weather Overflows
h. CSS Litter Control

4. Report on the following annually:

a. CSS Inventory
b. Major Combined Sewers
c. Catch Basin Cleaning
d. BMP Demonstration for Solid and Floatable Control
e. Anacostia River Floatable Debris Removal Program
f. Other

PART IV. SPECIAL CONDITIONS

SECTION A. PRETREATMENT

Pretreatment Conditions for Program Implementation

1. General Requirements - The permittee shall operate and implement an industrial pretreatment program in accordance with the federal Clean Water Act and the federal General Pretreatment Regulations at 40 C.F.R. Part 403. The program shall also be

implemented in accordance with the permittee's pretreatment program and any modifications thereto submitted by the permittee and approved by the EPA.

2. Annual Report - In accordance with 40 C.F.R. § 403.12(i), the permittee shall submit an Annual Report by March 31 of each year to EPA that describes the permittee's pretreatment activities for the previous calendar year. The Annual Report shall include a description of pretreatment activities in all municipalities from which wastewater is received at the permittee's POTW. At a minimum, the Annual Report shall include the following:

a. Industrial Listing - The Annual Report shall contain an updated industrial listing showing the name and address of all current Significant Industrial Users (SIUs) and Non-Significant Categorical Industrial Users (NSCIUs) as defined by 40 C.F.R. § 403.3 and the categorical standard, if any, applicable to each. The listing must: (1) identify any users that are subject to reduced reporting requirements under 40 C.F.R. § 403.12(e)(3); (2) identify which users are NSCIUs; (3) identify any users that have been granted a monitoring waiver in accordance with 40 C.F.R. § 403.12(e)(2) as well as the pollutants for which the waiver was granted and the date of the last POTW sampling event for each of those pollutants; and (4) identify any categorical industrial users that have been given mass-based limits in place of concentration-based categorical limits in accordance with 40 C.F.R. § 403.6(c)(5) or concentration-based limits in place of mass-based categorical limits in accordance with 40 C.F.R. § 403.6(c)(6). In addition, the report shall contain a summary of any trucked or hauled wastewater accepted into the POTW including the source of the wastewater (domestic, commercial, or industrial) and the discharge point(s) designated by the POTW for acceptance of such wastewater. For each industrial source, the report shall indicate the name and address of the industrial source, the average amount of wastewater received per discharge day, a brief description of the type of process operations conducted at the industrial facility, whether the source facility is a categorical industrial user (including NSCIUs), significant industrial user, or non-significant industrial user, and any controls imposed on the user;

b. Control Mechanism Issuance - The Annual Report shall contain a summary of SIU control mechanism issuance, including a list of issuance and expiration dates for each SIU. For each general control mechanism issued, provide the names of all SIUs covered by the general control mechanism and an explanation of how the users meet the criteria under 40 C.F.R. § 403.8(f)(1)(iii)(A) for issuance of a general control mechanism.

c. Sampling and Inspection - The Annual Report shall contain a summary of the number and type of inspections and samplings of SIUs by the permittee, including a list of all SIUs either not sampled or not inspected, and the reason that the sampling and/or inspection was not conducted. For any user subject to reduced reporting under 40 C.F.R. § 403.12(e)(3), the list shall include the date of the last POTW sampling and the date of the last POTW inspection of the user. In addition, the report shall include a summary of the number of self-monitoring events conducted by each SIU and the number required to be conducted, including a list of all SIUs that did not submit the required number of reports and the reason why the reports were not submitted. For NSCIUs, the report shall provide the date of the compliance certification required under 40 C.F.R. § 403.12(q);

d. Industrial User (IU) Compliance and POTW Enforcement - The Annual Report shall contain a summary of the number and type of violations of pretreatment standards and requirements, including local limits, and the actions taken by the permittee to obtain compliance, including compliance schedules, penalty assessments, and actions for injunctive relief. The report shall state whether each SIU was in significant noncompliance, as that term is defined in 40 C.F.R. § 403.8(f)(2)(viii), including the parameter(s) in violation, the period of violation, the actions taken by the POTW in response to the violations, and the compliance status at the end of the reporting period. A copy of the publication of users meeting the significant noncompliance criteria shall be included. In addition, the report shall provide a list of users previously designated as NSCIUs that have violated (to any extent) any pretreatment standard or requirement during the year and the date and description of the violation(s);

e. Summary of POTW Operations - The Annual Report shall contain a summary of any interference, pass-through, or permit violations by the POTW and indicate the following: (1) which (if any) NPDES violations may be attributed to industrial users; (2) which IU(s) are responsible for such violations; and (3) actions taken to address these events. The report shall also include all sampling and analysis of POTW treatment plant influent, effluent, and sludge for local limits and priority pollutants identified pursuant to section 303(d)of the Clean Water Act, 33 U.S.C. § 1313(d), and conducted during the year;

f. Pretreatment Program Changes - The Annual Report shall contain a summary of any changes made or proposed to the approved program during the period covered by the report and the date of submission to EPA;

g. Signatory Requirements - The Annual Report shall be signed by a principal executive officer, ranking elected official or other duly authorized employee in accordance with 40 C.F.R. § 403.12(m). Any such authorization must be made in writing and identify an individual or position having responsibility for the overall operation of the POTW or pretreatment program.

3. Pretreatment Monitoring - The permittee shall conduct monitoring at its treatment plant that, at a minimum, includes quarterly influent, effluent, and sludge analysis for all pollutants for which local limits have been established, and an annual priority pollutant scan for influent and sludge.

4. Notification of Pass-Through or Interference - The permittee shall notify EPA, in writing, of any instance of pass-through or interference, as defined at 40 C.F.R. § 403.3(p) and (k), respectively, known or suspected to be related to an industrial discharge from an IU into the POTW. The notification shall be attached to the Discharge Monitoring Report submitted to EPA and shall describe the incident, including the date, time, length, cause (including the responsible user if known), and the steps taken by the permittee and the IU (if identified) to address the incident. A copy of the notification shall also be sent to the EPA Pretreatment Coordinator at the address provided below.

5. Headworks Analysis - The permittee shall submit to EPA a reevaluation of its local limits based on a headworks analysis of its treatment plant within 1 (one) year of permit issuance. In order to ensure that the permittee's discharge complies with water quality

standards, the reevaluation of the local limits shall be conducted using, among other things, any water quality standards applicable to the pollutants included in the reevaluation unless the permit includes a limit for that pollutant. The list of pollutants to be evaluated, as well as a sampling plan for collection of necessary data, shall be submitted to EPA within 3 (three) months of permit issuance. Within 4 (four) months of acceptance of the headworks analysis by the Approval Authority, the permittee shall adopt the revised local limits and notify all contributing municipalities of the need to adopt the revised local limits.

6. Changes to Pretreatment Program - EPA or the permittee may initiate program modification at any time to reflect changing conditions at the POTW, which may include (but are not limited to) the following reasons:

   a. The program is not implemented in accordance with 40 C.F.R. Part 403;

   b. Problems such as interference, pass-through, or sludge contamination develop or continue;

   c. Federal, State, or local requirements change;

   d. Changes are needed to assure protection of waters of the United States. Program modification is necessary whenever there is a significant change in the operation of the Pretreatment Program that differs from the information in the permittee's submission, as approved under 40 C.F.R. § 403.11.

7. Procedure for Pretreatment Program Changes - Upon submittal by the permittee, and written notice of approval by EPA to the permittee of any changes to the permittee's approved pretreatment program, such changes are effective and binding upon the permittee unless the permittee objects within 30 days of receipt of the written notice of approval. Any such objection must be submitted in writing to EPA at the address shown below.

8. Correspondence - Pretreatment correspondence shall be submitted to EPA at the following address:

   Pretreatment Coordinator (3WP41)
   U.S. Environmental Protection Agency
   1650 Arch Street
   Philadelphia, PA 19103-2029

SECTION B. STANDARD SLUDGE CONDITIONS

1. The permittee shall comply with all existing federal and state laws and regulations that apply to sewage sludge use and disposal practices, including 40 C.F.R. 503 and 40 C.F.R. 258 which are hereby incorporated as part of the permit by reference, and the Clean Water Act (CWA) Part 405(d) technical standards.

   If an applicable management or practice or numerical limitation for pollutants in sewage sludge more stringent than existing federal and state regulations is

promulgated under Part 405(d) of the CWA, this permit shall be modified to conform to the promulgated regulations.

2. The permittee shall give notice to the Director of any change(s) planned or in the permittee's sludge use or disposal practice.

3. A change in the permittee's sludge use or disposal practice is a cause for modification of the permit. It is a cause for revocation and reissuance of the permit if the permittee requests or agrees.

4. The permittee shall submit an annual sludge report containing the information required in 40 C.F.R. 503 by February 19 each year. The report shall cover the previous calendar year. The sludge report shall be submitted to"

U.S. EPA, Region III
Water Protection Division
Office of NPDES Permitting and Enforcement
(3WP42)
1650 Arch Street
Philadelphia, PA 19103 - 2029

SECTION C. CHLORINATION/DECHLORINATION

1. The permittee shall report chlorine dosage (on a pound basis) per discharge event on Outfall 001. Dosage figures shall be submitted with the DMR for the month of the discharge event.

2. The concentration of Total Residual Chlorine (TRC) in the final effluent after dechlorination shall not exceed not-detectable. The permittee is required to achieve non-detectable for TRC as measured by 0.10 mg/l.

   When the TRC concentration in the final effluent results in a detectable measurement (above 0.10 m/l) the permittee shall take immediate steps to achieve a non-detectable concentration.

   The permittee shall resample TRC within one hour after the original grab sample measurement. If this grab sample shows a non-detectable amount as measured by 0.10 mg/l or less, then the original sample shall be considered in compliance. If this grab sample shows a detectable amount, above 0.10 mg/l, then the permittee shall retest in the second hour after the original non-compliance. If this grab sample in the second hour after the original non-compliance shows a not detectable amount as measured by 0.10 mg/l or less, then the sample shall be considered in compliance, but if the grab sample is above 0.10 mg/l then it will be considered a violation and recorded on the DMR. Each subsequent hourly sample above 0.10 mg/l shall be enumerated on the DMR until the effluent returns to compliance.

Whenever there is an initial detectable TRC concentration, all subsequent sampling results shall be tabulated and reported with the DMRs and the time required to achieve the TRC of 0.10 mg/l. The analytical method used and the detection limit for each sample should be included on the data tabulation.

For purposes of reporting on the DMR form, a non-detectable result shall be reported as zero. For a violation(s) of the limit, the maximum chlorine residual for the month and the total number of excursions in that month should be recorded in the appropriate column on the DMR form. The permittee shall operate the dechlorination facilities in a manner which will ensure continuous compliance with the TRC non-detectable limit.

All analytical testing for TRC shall be in accordance with 40 C.F.R. Part 136, Amperometric Titration or DPD Ferrous Titrimetric Method.

SECTION D. TOTAL NITROGEN COMPLIANCE SCHEDULE

1. The total nitrogen (TN) effluent limit from the Blue Plains plant, for Outfall 002 shall be 4,377,580 pounds per year. Improvements to the existing nitrogen removal facilities to achieve this limit shall occur no later than the dates in the following schedule:

   a. Award contract for Construction – December 31, 2011;
   b. Place in operation – July 14, 2014
   c. Begin compliance with TN effluent limit – January 1, 2015.

2. Progress Reports: Beginning six months from the effective date of this permit and every six months until January 1, 2015, the permittee shall submit reports detailing progress towards completion of each of the above requirements. In addition, no later than 14 days following each of the dates set forth above, the permittee shall notify EPA in writing of its compliance or non-compliance with these requirements.

SECTION E. STORM WATER MANAGEMENT

1. Storm Water Pollution Prevention Plan

   a. General

   A Storm Water Pollution Prevention Plan (SWPP) was developed for this facility in accordance with the factors outlined in 40 C.F.R.125.3 (d)(2)or (3), as appropriate. The plan identifies potential sources of pollution which may reasonably be expected to affect the quality of stormwater discharge associated with sludge handling operations or other portions of the waste water treatment plant as appropriate.

b. Plan Review

The plan shall be retained on site at the facility. The permittee shall make plans available upon request to the EPA. The EPA may notify the permittee at the time that the plan does not meet one or more of the requirements of this Part. Such notification shall identify those provisions of the permit that are not being met by the plan, and identify which provisions of the plan require modification in order to meet the minimum requirements of this Part. Within 30 days of such notification, the permittee shall make the required changes to the plan and shall submit to EPA a written certification that the requested changes have been made.

c. Plan Modification

The permittee shall amend the plan whenever;

i. There is a change in design, construction, operation or maintenance which has a significant effect on the potential for the discharge of pollutants to the waters of the United States; or

ii. EPA notifies the permittee of its finding that the SWPPP is inadequate in eliminating or minimizing pollutants from identified sources, or that the SWPPP is inadequate to prevent the facility from causing, or having a reasonable potential to cause or contribute to a violation of the D.C. Water Quality Standards.

SECTION F. PCB MONITORING AND REDUCTION

1. The permittee shall monitor quarterly for PCBs at Outfalls 001 and 002 during the term of this permit using composite or grab samples as specified for these outfalls at Part I of this permit. The samples for Outfall 002 shall represent 2 dry weather and 2 wet weather samples quarterly during the term of this permit. Samples from Outfall 001 shall represent 2 wet weather samples quarterly during the term of this permit. During the first year of the permit, the permittee shall also monitor plant influent during one of the corresponding wet weather and one of the corresponding dry weather sampling events.

For the purpose of obtaining samples, dry weather means no measurable rain at Ronald Reagan National Airport in the prior 72 hours and wet weather means a condition when the average daily plant influent flow is greater than 511 mgd.

Samples shall be analyzed using Method 1668B. After the permittee has collected four quarterly samples from Outfall 002 and 001, the permittee may request a waiver from EPA for the remaining samples. Documentation shall be submitted with the waiver request to demonstrate why other sampling is not necessary. If the results of the monitoring indicate actual or potential exceedance of the Waste Load Allocation, and upon notification by EPA, the permittee shall within 120 days submit to EPA for comment a work plan and schedule for

preparation and implementation of a Pollution Minimization Plan (PMP) and other submittals or analyses of PCB data. Such submittals may include an assessment of PCBs in the initial source intake water to determine the net contributions of PCBs introduced to the treatment works and an analysis of the net reductions provided by treatment.

2. The PMP developed from the work plan shall include, but not necessarily be limited to:

   a. The name and contact information for an individual who will serve as the permittee's contact for information concerning the PMP.

   b. A narrative discussion together with necessary supporting data, charts, maps, diagrams and similar material of the permittee's CSO service area (CSO Area) including the location of all outfalls.

   c. A time schedule with milestone dates.

   d. Description of all known materials, equipment, processes, soil areas or facilities within the CSO area from which PCBs are known or suspected to be released, directly or indirectly into a CSO, including a description of the entry pathway if that is known. Pollutant concentrations, if known shall be reported.

   e. Description of all known materials, processes, soil area or facilities within the CSO Area that are known to contain PCBs, but are not known to be releasing PCBs within the District's CSO Area.

   f. During the term of this permit, the permittee shall collect and analyze at least twelve (12) in-stream samples for PCBs. Samples shall be taken simultaneously upstream and downstream of CSO outfalls and the PMP shall include planned locations for the monitoring.

   g. The permittee shall develop a report of all known PCB sources within the CSO system that the permittee believes or has reason to believe may require some control measure to reduce its discharge of PCBs. The permittee shall work with the Interstate Commission on the Potomac River Basin (ICPRB), and other appropriate agencies, to develop a plan of action to control the discharge of PCBs from these sources.

   h. The permittee shall develop and implement a program to identify whether industrial users have the potential to contribute to PCBs. Because PCBs may be contributed from many industrial processes, principally through oils which are contaminated by PCBs and may be rinsed and discharged into the sewer system, the permittee shall include PCBs as a sampling requirement for facilities with known or suspected sources of

PCBs. In addition, the permittee shall conduct period reviews of its industrial database, including analytical scans of suspected sources to determine whether PCBs are being discharged in detectable concentrations.

i. The permittee shall demonstrate its compliance with the PMP by reporting the number of known sites, the number of sites referred for action and the results of the in-stream sampling activity and any other actions taken to further the goals of the PMP. The permittee shall report on PMP implementation annually by February 15 and the report shall cover the preceding calendar year.

SECTION G. WHOLE EFFLUENT TOXICITY (WET) TESTING

1. In accordance with 40 C.F.R.§ 122.21(j)(5), the permittee must conduct and provide the results of WET tests for chronic toxicity for Outfall 002 and acute toxicity for Outfall 001.

2. Testing Frequency

a. For the duration of this permit, these results must include quarterly testing on 24-hour composite effluent samples for Outfall 002, and grab samples for Outfall 001 beginning within three months of the effective date of the permit. The permittee shall conduct the toxicity tests, using a minimum of two species, using the fish fathead minnow - *Pimephales promelas* and the invertebrate species *Ceriodaphnia dubia.* Upon the completion of the last of four quarterly tests, the permittee may petition EPA for a reduction in the frequency of this testing.

b. In addition, pursuant to 40 C.F.R. 122.21(5)(iv)(A), the permittee shall submit the results of four quarterly tests for Outfalls 001 and 002 for a year immediately preceding the next permit application with its application for permit reissuance.

3. Monitoring

a. *Outfall 001.* Species and toxicity test methods for estimating the acute toxicity of NPDES effluents are found in the fifth edition of *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* (EPA/821/R-02/012, 2002; Table 1A, 40 C.F.R. Part 136). The permittee shall conduct definitive 96-hour static renewal toxicity tests using a vertebrate species, the fathead minnow - *Pimephales promelas, and definitive 96-hour static renewal toxicity tests using* the invertebrate species, *Ceriodaphnia dubia* for Outfall 001. Each test will include a control and the permitted IWC of 45% concentrations in order to quantify any measurable acute toxicity. These renewal tests will need to have sufficient volume collected by grab during the storm event to use for the start of the test, the additional test renewals and TIE, if necessary.

During the first year of the WET studies the permittee shall use the multiple species required above. For the following years the permittee may perform the study using the most sensitive species only.

b. For *Outfall 002*. Species and toxicity test methods for estimating the chronic toxicity of NPDES effluents are found in the fourth edition of *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms* (EPA/821/R-02/013, 2002; Table 1A, 40 C.F.R. Part 136)(Chronic Test Methods Manual). The permittee shall conduct static renewal toxicity tests with a vertebrate species, the fathead minnow - *Pimephales promelas*, and an invertebrate species - *Ceriodaphnia dubia* for Outfall 002.

4. WET Requirements

a. *For Outfall 001,* the acute WET requirement for this discharge is "Pass" for any one test result. For this permit, the determination of Pass or Fail from a single-effluent-concentration (paired) acute toxicity test is determined using a one-tailed hypothesis test called a "t-test". As discussed in paragraph 7. below, a mixing zone is authorized at Outfall 001. The resulting in-stream waste concentration (IWC) for Outfall 001 is 45%. The objective of a Pass or Fail test is to determine if survival in the single treatment (45% effluent) is significantly different from survival in the control (0% effluent). Following Section 11.3 in the Acute Test Methods Manual (EPA/821/R-02, 2002), the t statistic for the single-effluent-concentration acute toxicity test shall be calculated and compared with the critical t set at the 5% level of significance. If the calculated t does not exceed the critical t, then the mean responses for the single treatment and control are declared "not statistically different" and the permittee shall report "pass" on the DMR form. If the calculated t does exceed the critical t, then the mean responses for a single treatment and control are declared "statistically different" and the permittee shall report "fail" on the DMR form. This permit requires a TIE to be conducted on the original sample if the acute WET test is reported as "fail".

b. There are no chronic toxicity effluent limits for Outfall 002. Quarterly monitoring of chronic toxicity shall be conducted. If four consecutive chronic tests demonstrate an IC25 greater than the IWC of 52%, calculated for outfall 002, the permittee may request that EPA re-evaluate the effects of Outfall 002's effluent upon the aquatic community and reduce or remove the WET testing frequency for the remainder of the permit cycle. If any of the quarterly chronic tests result in an IC25 less than the IWC of 52%, the permittee shall follow the requirements in paragraph G.8.b. below.

To properly conduct chronic WET tests, the laboratory must prepare a series of effluent dilutions which are specific to the permittee's discharge. The permittee must inform the laboratory of the proper dilution series. The dilution series must include at least one dilution below the IWC. Based upon the calculated IWC, the recommended series for the chronic tests is 100, 72, 52, 38 and 27 percent effluent.

5. Reporting Results

All information reported must be based on data collected through analysis conducted using 40 C.F.R. Section 136 Table 1A methods. In addition, all data must comply with QA/QC requirements of 40 C.F.R. Part 136 and other appropriate QA/QC requirements for standard methods not addressed by 40 C.F.R. Part 136.

The permittee shall notify the permitting authority and DC DOE in writing within 14 days of an exceedance of a chronic or acute WET permit trigger. This notification shall describe actions the permittee has taken or will take to investigate, identify, and correct the causes of toxicity; the status of actions required by this permit; and schedule for actions not yet completed; or reason(s)that no action has been taken.

Results for toxicity testing shall be submitted with the DMRs for the month in which the toxicity was conducted.

Additional Reporting Requirements

The permittee shall provide the results of all WET tests conducted during the four and one-half years prior to application for a new permit.

7. Mixing Zones

Pursuant to the District of Columbia Water Quality Standards (WQS) (21 DCMR 1105.7), a mixing zone may be allowed for point source discharges of pollutants on a case-by-case basis where it is demonstrated that allowing a small area impact will not adversely affect the waterbody as a whole. Specific conditions apply. In accordance with the DC WQS, EPA is allowing the use of mixing zones for chronic WET testing, as long as the conditions of 21 DCMR 1105.7 are met. WASA may make a request in writing for a mixing zone for one or both outfalls. The request should demonstrate how the discharge meets the conditions of 21 DCMR 1105.5.

8. Accelerated Toxicity Testing and Toxicity Reduction Evaluation (TRE) Toxicity Identification Evaluation (TIE)Process

a. *For Outfall 001*. The acute permit trigger is defined as the IWC. If an acute permit trigger is exceeded, then the permittee shall begin TIE testing using the excess of the original sample collected. This test shall begin immediately upon receipt of test results exceeding the acute WET trigger. If an acute trigger is exceeded, the permittee shall conduct two additional toxicity tests using the same species and test method as soon as additional Outfall 001 CSO releases occur. If the additional toxicity tests do not exceed the specified acute WET permit trigger, then the permittee may return to their regular testing frequency.

If a toxicant(s) is identified in the TIE process, the permittee shall develop a detailed TRE Workplan which shall include, at a minimum, the additional actions the permittee shall take to investigate, identify and correct the problem.

b. *For Outfall 002.* The chronic permit trigger is defined as the IWC for outfall 002. If the chronic permit trigger is exceeded, then the permittee shall conduct two additional toxicity tests using the same species and test method. The tests shall begin within 14 days of receipt of test results exceeding the chronic WET trigger. If one of the additional toxicity tests exceeds a chronic WET permit trigger, then, within 30 days of the receipt of this confirmation test result, the permittee shall initiate a TRE using the U.S.*EPA Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants* (EPA/833/B-99/002) *(1999)*. The TRE Workplan shall include, at a minimum, additional actions to be taken by the permittee to investigate, identify, and correct the causes of toxicity; actions the permittee will take to mitigate the impact of the discharge and prevent the recurrence of the toxicity; and a schedule to implement required remedial actions.

c. During the pendency of the TRE/TIE process, the permittee shall continue quarterly acute and/or chronic WET testing.

d. In the event that a toxicant is identified and a remedy can be quickly implemented (e.g., lowering concentrations of chlorine or ammonia), such remedy should be implemented as quickly as possible and prior to the development and submission of a TRE Workplan.

Section 2
Operation and Maintenance

2.1 NPDES PERMIT REQUIREMENTS

The NPDES permit includes requirements for the NMC program related to operation and maintenance. The permit requires DC Water to:

- Maintain a CSS inventory - prepare an inspection plan and submit updated inventory information with each annual report as follows:
  - List of CSO outfalls and emergency relief locations
  - Combined Sewer Overflow Structures - designation, location, description of operation, capacity and diagram or drawing of each structure. Include similar information for each inflatable dam.
  - Outfall Structures. Include designation, location and description of each structure. Include a diagram or drawing and a picture as available and practicable. Describe outfalls characteristic at high and low tide (e.g., submerged, partially submerged, not submerged). Identify whether or not each structure is equipped with a tide gate.
  - Supervisory Control and Data Acquisition (SCADA) System. Include a functional description, and list of information provided by the SCADA system for the CSS.
  - Rain Gages. List location and description of rain gauges installed within the CSS.
- Inspect CSS control structures (regulator structures and tide gates) at least once per month.
- Inspect pumping stations at least once per month.
- Inspect Northeast Boundary Swirl Facility at least once per month.
- Inspect inflatable dams and CSS SCADA system at least once per month.
- Develop an inspection program for the major combined sewers where each major combined sewer is inspected on a rotating schedule of sufficient frequency to maintain capacity requirements.
- Inspect outfall structures annually.
- Following rehabilitation, operate and maintain the Main, "O" Street, Potomac and Poplar Point and Eastside Pumping stations to provide firm pumping capacities of 240 mgd, 45 mgd, 460 mgd 45 mgd and 45 mgd respectively.

2.2 CSS SYSTEM INVENTORY

2.2.1 Pipes, Manholes and Catch Basins

A schematic of the major conveyance pipelines and pumping stations in the DC Water's sewer system is presented on Figure 2-1. It is convenient to think of the drainage areas and CSS as being divided into two subsystems - an Anacostia system and a Potomac/Rock Creek system. The Northeast Boundary, Navy Yard, Fort Stanton, and Tiber Creek drainage areas are part of the Anacostia system. The other drainage areas are part of the Potomac/Rock Creek system, with the B St/New Jersey Avenue drainage area serving as a link between the Anacostia and Potomac/Rock Creek systems. The ratio of maximum design capacity to dry weather capacity of the two systems is significantly different. Prior studies indicate this factor is approximately two for the Northeast Boundary Trunk Sewer. However, this factor is typically significantly higher for trunk sewers and interceptors serving the Potomac/Rock Creek system, allowing them to carry more wet weather flow before discharging to receiving waters.

DC Water has approximately 550 paper 24" x 36" maps showing the sewer system in the District. These maps have been digitized into a GIS system. Based on this digitization, the following is an inventory of the combined sewer system:

Table 2-1

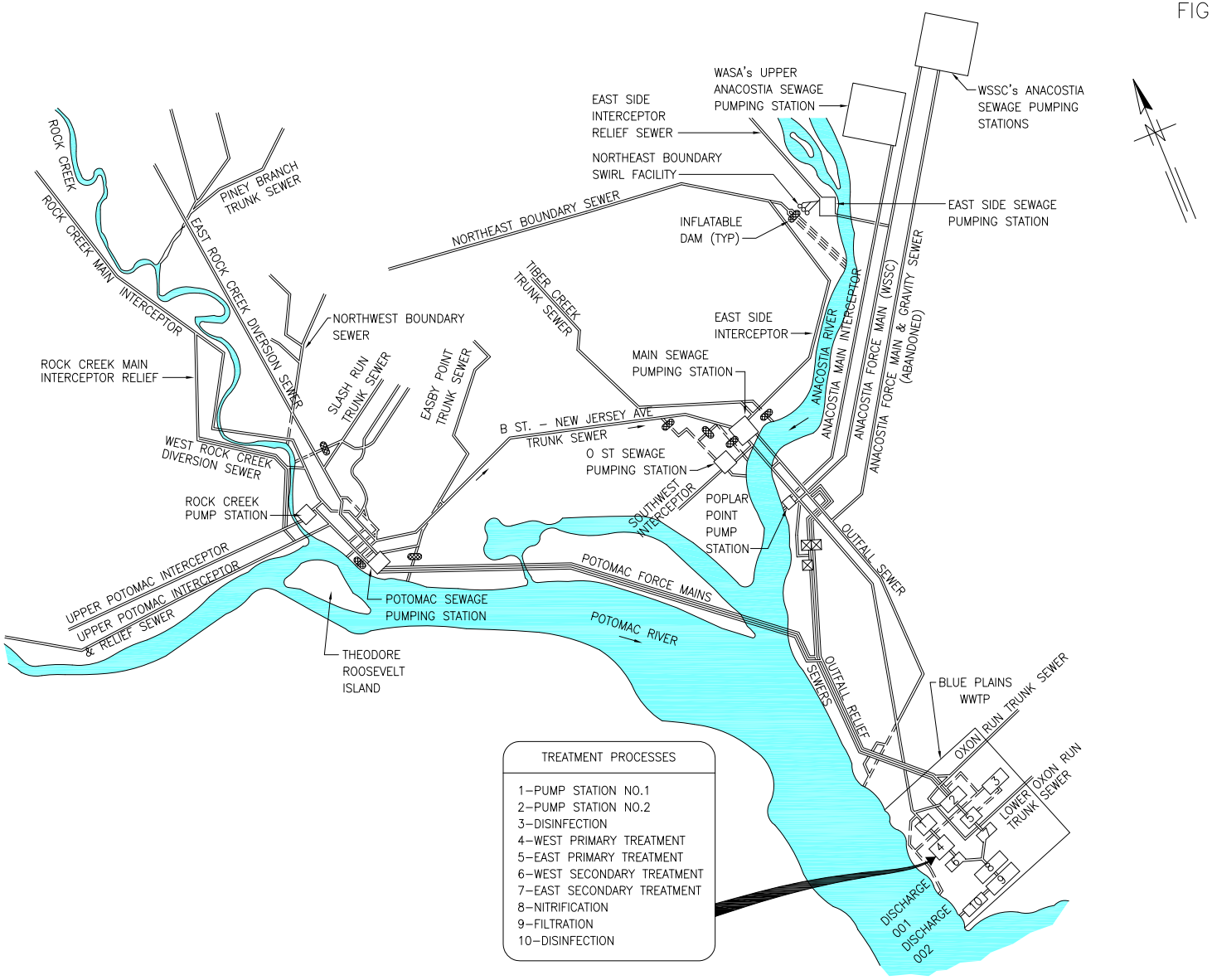
CSS Inventory

Item	*Units*	*Estimated Quantity*
Combined Sewers		
< 18"	Miles	375
≥ 18" to < 24"	Miles	79
≥ 24" to < 42"	Miles	80
≥ 42" to < 72"	Miles	39
≥ 72" to < 108"	Miles	40
≥ 108"	Miles	39
Total	Miles	652
Manholes	Each	18,240
Catch basins	Each	10,871

On the counter maps, approximately 10 percent of the pipe length had no information on pipe size. For purposes of the inventory, these pipes were assumed to have diameters in the same proportion as the pipes with known diameters.

FILE: LTCP\DOCUMENTS\05\0502\NPDES PERMIT\NMC ANNUAL REPORTS\2012 NMC REPORT\FIGURES\Figure 2-1.DWG

FIGURE 2-1



SEWER SYSTEM SCHEMATIC

NOT TO SCALE

PROGRAM CONSULTANT'S ORGANIZATION

DC WATER

NINE MINIMUM CONTROLS ANNUAL REPORT

2.2.2 Outfalls and Regulator Structures

Outfalls

There are 63 outfalls listed in DC Water's NPDES permit. They are summarized as follows:

- 2 outfalls (NPDES 001 and 002) are wastewater treatment plant outfalls
- 4 outfalls (NPDES 004, 008, 061, 062) are emergency relief locations
- 57 outfalls are CSOs. Four of these outfalls have been abandoned, leaving a total of 53 active CSO outfalls as follows:
    - 15 CSOs discharge to the Anacostia River
    - 10 CSOs discharge to the Potomac River
    - 28 CSOs discharge to Rock Creek or its tributaries

In accordance with the LTCP Consent Decree, DC Water has separated CSO 006 to the Anacostia River, and CSOs 031, 037, 053 and 058 to Rock Creek. The outfall list will be updated when the permit is reissued.

Regulator Structures

Regulator structures control the amount of flow diverted to interceptors, which convey wastewater to BPAWWTP. During dry weather, flows are diverted to BPAWWTP for treatment. During wet weather events, the regulators divert combined sewage, the mixture of sanitary wastewater and storm water, within the system up to design capacities. When flows exceed the capacities of the system, the regulator structures divert excess flow to CSO outfalls, which discharge to the receiving waters. Release of the combined sewer overflow to the outfalls is necessary to prevent flooding in homes, businesses, and streets. The frequency and volume of discharge from each of these structures varies depending on the relative capacity of the downstream interceptor, the hydraulic geometry of the overflow structure itself, storm intensities and duration, and the size of the contributing drainage area.

DC Water maintains an updated inventory on the location, configuration and status of its outfalls and regulator structures in its "Structures Book", which is included as Appendix 2-1.

The capacities of the diversion structures vary depending on water levels in the combined sewer and the downstream interceptor. As a result, the capacities of the diversion structures were determined by reviewing model results developed for the LTCP. These are summarized in Appendix 2-2.

2.2.3 Inflatable Dams

DC Water operates and maintains twelve inflatable dams at eight different locations. The structure number, location and number of dams per site are presented in Table 2-2. The inflatable dams

consist of multi-ply elastomeric (i.e., "rubber") fabric dams installed in major overflow conduits within the combined sewer system. The installation consists of the dam, attachment hardware, mechanical inflation equipment housed in a nearby vault, air piping and valves, an over-pressure blowoff tank and an automatic control system. The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflows occur. The effect of the installation is to retain a greater volume of combined sewage flow resulting from low to moderate intensity storms by maximizing storage within the CSS. During higher intensity storms, when the full carrying capacity of the overflow conduit is required to prevent upstream flooding, the dam is deflated automatically based on a signal from an upstream level sensor. During dry weather conditions the dams are normally maintained fully inflated under low pressure.

Table 2-2
Inflatable Dam Locations

Structure Number	*Location*	*Combined Sewer*	*Number of Dams*
14	Main Pumping Station – West Side	B St. – New Jersey Ave. Trunk Sewer	2
15	South Capitol and E Sts., SE	B St. – New Jersey Ave. Trunk Sewer	1
15a	Half and L Sts., SE	B St. – New Jersey Ave. Trunk Sewer	1
16	Main Pumping Station – East Side	Tiber Creek Trunk Sewer	2
24	RFK Memorial Stadium – South Parking Lot	Northeast Boundary Sewer	3
34	23rd and Constitution, NW	Easby Point Trunk Sewer	1
35	Kennedy Center - East Parking Lot	East Rock Creek Diversion Sewer	1
52	22nd St., between M and N Sts., NW	Slash Run Trunk Sewer	1
		Total Number of Inflatable Dams	12

Inflatable dam locations and details are shown on DC Water's "Structures Book", which is included as Appendix 2-1.

2.2.4 Northeast Boundary Swirl Facility

The NEBSF is located at the south end of the RFK Stadium parking lot, on the west bank of the Anacostia River, and adjacent to the East Side Pumping Station. This facility went into operation in January 1991. During storm events, this facility provides treatment and disinfection for up to 400 mgd of combined sewer overflow before discharging to the Anacostia River at CSO Outfall 019. Flow in excess of 400 mgd overflows to the Anacostia River. Three inflatable dams control the routing of flows to the NEBSF and to the Anacostia River. Treatment processes include mechanical screening of influent combined sewage, followed by concentration of solid materials in three swirl concentrator tanks and disinfection of the treated effluent. The concentrated, solids-bearing underflow is discharged to the 48-inch East Side Interceptor Relief Sewer, where it flows by gravity to the East Side Pumping Station. The East Side Pumping Station then pumps the discharge to BPAWWTP.

2.2.5 CSS Pumping Stations

Virtually all the wastewater that is conveyed to BPAWWTP, including the contribution from surrounding jurisdictions and federal facilities, must be pumped. The major CSS facilities that pump wastewater to Blue Plains are as follows:

- Potomac Pumping Station: This station was designed to have a firm capacity of 460 mgd and pumps the wastewater from the Potomac/Rock Creek system to BPAWWTP via force mains that cross under the Anacostia River at the confluence with the Potomac River. It also conveys wastewater loads from surrounding jurisdictions that enter the District via the Rock Creek Main Interceptor and the Potomac Interceptor. This station is manned 24 hours per day, seven days per week. The station is currently being rehabilitated.

- Main Pumping Station: This station is split into a sanitary side and a storm side. Main PS has four-90 mgd pumps. The sanitary side primarily handles dry weather flows. Main PS pumps wastewater from the Tiber Creek and B Street/New Jersey Ave. drainage areas, as well as flows from the Potomac/Rock Creek system that enters the B St/NJ Ave. Trunk Sewer, under the Anacostia River via siphons to BPAWWTP. This station is providing a firm sanitary pumping capacity of 240 mgd. The storm side is used during wet weather events, with a firm capacity of 400 mgd, to convey storm overflows to the Anacostia River and prevent flooding of basements and streets in the surrounding low-lying drainage areas. This pumping station is manned 24 hours per day, seven days per week.

- "O" Street Pumping Station: Like Main Pumping Station, this station is split into sanitary and storm sides and was designed to have firm capacities of 45 and 500 mgd, respectively. The sanitary side pumps wastewater from the Southwest Interceptor, which serves a low-lying area, to one of the siphons that run under the Anacostia River to BPAWWTP. The storm side pumps combined sewage from the B Street/New Jersey Avenue Relief Sewer, which serves a low-lying area of the B Street/New Jersey Avenue drainage area, to the Anacostia River. This station is manned 24 hours per day, seven days per week.

- Poplar Point Pumping Station: This unmanned station was designed to have a firm capacity of 45 mgd and pumps combined wastewater from the Anacostia Main Interceptor and Anacostia Force Main to the Outfall Sewers that lead to BPAWWTP. The Anacostia Main Interceptor conveys the combined and sanitary flows from the portion of the District that is east of the Anacostia River.

- East Side Pumping Station: This unmanned station was designed to have a firm capacity of 45 mgd and pumps separate sanitary wastewater from the East Side Interceptor Relief Sewer.

During storm events, the East Side Interceptor Relief Sewer also transports the concentrated underflow from the Northeast Boundary Swirl Facility (NEBSF). All flows are pumped through a force main beneath the Anacostia River and into the 108" Anacostia River Force Main.

Pumping Station locations and details are shown on DC Water's "Structures Book", which is included as Appendix 2-1.

2.2.6 SCADA System

The SCADA System used by DC Water is designed to perform three major functions:

1. Receive data from sites associated with the certain CSO abatement projects and display this data in various formats.
2. Provide the capability of controlling the inflatable dams, the Outfall Sewer Control Gates and various processes at the Northeast Boundary Swirl Facility.
3. Transfer selected data from the master control station at the Blue Plains Wastewater Treatment Plant Administration Building to a local area network computer system for archiving and later retrieval.

The telemetering information and data is transferred via dedicated telephone lines. The system also includes two MicroDAQ master control stations. The primary monitoring and control station is located in the control room at the Main Sewage Pumping Station. The second master control station is located in the central operations room inside the Blue Plains Administration Building. Although this second station has the same monitoring and capabilities as the first, it functions primarily to transfer data to a permanent database on a local area computer network.

The SCADA System monitors the following remote stations:

- Inflatable Dams
- Outfall Sewer Control Gates
- Northeast Boundary Swirl Facility
- Blue Plains Pump Station No. 2 overflow monitor receiving station

Control of these sites is automatic, except for the Outfall Sewer Control Gates, and local to each site. The SCADA System allows an operator to monitor and manually cause certain processes and functions to occur at the different facilities.

At the inflatable dams, the SCADA System monitors the following information:

- Alarms
- Blower motor operation
- Dam inflation/deflation
- Vault temperature
- Emergency alarm
- Upstream water Level
- Downstream water Level (at Structure Numbers 14, 16, 24 and 34)
- Solenoid valves operation
- Dam pressure

At the inflatable dam sites, the system is used to indicate and record the occurrence of CSO overflows and their approximate duration.

The SCADA System also monitors the intrusion alarms at the Northeast Boundary Swirl Facility and indicates which pumps are on at the pumping stations.

2.2.7 Rain Gages

DC Water operates four rain gages in the combined sewer area. The gages were placed in operation in April 2003. This data is collected and reported in the Department of Sewer Services Monthly Operations report. Gage locations are as follows:

Table 2-3
Rain Gage Locations

Rain Gage	***Combined Sewer Drainage***
Main Sewage Pumping Station	Tiber Creek
Rock Creek Sewage Pumping Station	West Rock Creek Diversion Sewer
Brentwood Reservoir	Northeast Boundary
Bryant Street Water Pumping Station	Northeast Boundary

2.3 FACILITY INSPECTIONS AND MAINTENANCE

DC Water inspects and maintains outfall structures, regulator structures, inflatable dams, the NEB Swirl Facility and the pumping stations in accordance with its NPDES permit. There is a regular schedule for inspection and maintenance of each facility as shown on Table 2-4.

Table 2-4
CSO Control Structures Inspection and Maintenance Schedule

CSO Control Structure	*Inspection Interval*	*Maintenance*	
		Interval	*Type*
Regulator Structures	Monthly	Monthly	Preventive Maintenance
Outfall Structures and Tide Gates	Monthly	Monthly	Preventive Maintenance
CSS Pumping Stations	Daily	Daily	Preventive Maintenance
NEB Swirl Facility	Monthly	Monthly	Preventive Maintenance
Inflatable Dams	Monthly	Monthly	Preventive Maintenance

DC Water reports on the occurrence of inspections and maintenance in quarterly reports to EPA Region III. Excerpts from these reports are included in the Appendices as follows:

- Regulator Structures: Appendix 2-3
- Outfall Structures and Tide Gates: Appendix 2-4
- CSS Pumping Stations: Appendix 2-5
- NEB Swirl Facility: Appendix 2-6
- Inflatable Dams: Appendix 2-7

2.4 INSPECTION PROGRAM FOR MAJOR COMBINED SEWERS

The permit requires DC Water to develop an inspection program for the major combined sewers on a rotating schedule of sufficient frequency to maintain capacity requirements. In accordance with the requirements of the 3-Party Consent Decree, DC Water prepared an Operation and Maintenance Manual (O & M Manual) for the CSS and submitted this to EPA Region III in June 2004. The O & M manual included an inspection program for the major combined sewers. The inspection frequency is shown on Table 2-5. The specific sewer reaches in the District that comprise the categories listed in the table are included in the O & M Manual.

Table 2-5
Inspection Frequencies

Sewer Type	*Inspection Frequency, years*
Outfall Sewers (listed)	25
Major Combined Sewers (listed)	25

From 2004 to 2005, inspection of the outfall sewers (these are the major combined sewers between Blue Plains and the pumping stations) was performed. Based on these inspections, DC Water prepared and submitted to EPA Region III recommendations regarding rehabilitation of the pipeline

and achieving 1076 MGD of conveyance capacity in October 2006. On April 1, 2011, DC Water has completed the rehabilitating portions of the outfall sewers and has met the Three-Party Consent Decree requirement.

DC Water has seven inspection contracts that are currently underway. They are:

- The "Sewer Cleaning and Inspection Citywide" Division 4 contract, which was awarded in October 2009 is composed of approximately 73,400 ft of sanitary, combined, storm sewer mains and lateral services. DC Water has completed approximately 87% of the sewer inspection work under this contract.

- The "Sewer Cleaning and Inspection Contract 5" which was awarded in October 2010 is composed of approximately 168,000 ft of sanitary, combined and storm sewer mains and lateral services. The inspection work for this contract is approximately 82% complete.

- The "Sewer Cleaning and Inspection Contract 6" which was awarded in December 2010 is composed of approximately 153,500 ft of sanitary, combined and storm sewer mains and lateral services. The inspection work for this contract is approximately 90% complete.

- The "Sewer Cleaning and Inspection Contract 7" which was awarded in December 2010 is composed of approximately 102,000 ft of sanitary, combined and storm sewer mains and lateral services. The inspection work for this contract is approximately 67% complete.

- The "Sewer Cleaning and Inspection Contract 8" which was awarded in May 2011 is composed of approximately 282,000 ft of sanitary, combined and storm sewer mains and lateral services. The inspection work for this contract is approximately 47% complete.

- The "Potomac Interceptor Sewer Inspection" phase 2 contract which was awarded in May 2011 is composed of approximately of 131,000 ft of sanitary sewer inspection. The inspection work for this contract is 100% complete.

- The "Sewer Cleaning and Inspection Contract 9" which was awarded in June 2012 is composed of approximately 121,000 ft of sanitary, combined and storm sewer mains and lateral services. The inspection work for this contract is approximately 5% complete.

DC Water is currently procuring three additional inspection contracts provided below.

- The "Potomac Interceptor Sewer Inspection" phase 3 to be bid in Spring 2013
- "Sewer Cleaning and Inspection Contract 10" to be bid in Summer 2013
- "Sewer Cleaning and Inspection contract 11" to be bid in Winter 2013.

2.5 OPERATION AND MAINTENANCE OF PUMPING STATIONS

The permit requires that Main, "O" Street, Potomac, Poplar Point and Eastside Pumping Stations be operated and maintained to provide firm pumping capacities of 240 mgd (sanitary), 45 mgd (sanitary), 460 mgd, 45 mgd and 45 mgd, respectively, after they are rehabilitated. In accordance with the Three-Party Consent Decree, all rehabilitations have been completed except for Potomac Pumping Station.

Work is ongoing at Potomac Pumping Station. Computational Fluid Dynamics (CFD) modeling was conducted and the results indicated that the straightening vanes installed in the spool pieces below the pump intakes may improve flow conditions. The design, installation, and testing of the new spool pieces incorporating straightening vanes was completed. An improvement in performance was achieved but not sufficient to allow for certification. Based on additional modeling and testing of the transitional inlet, design and implementation of intake channel modifications were performed. On March 28, 2011, results from the inlet test indicated that the inlet modifications did not have a positive impact on the pump capacity. DC Water is proceeding to implement the next step, which will require the design, fabrication and installation of new pump impellers. Design, fabrication, installation and testing of the impeller for pump number 2 is scheduled to be completed by February 2013.

APPENDIX 2-1

Structures Book

DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
Serving the Public • Protecting the Environment

Combined Sewer System Structures Book

December 2012

Program Consultants Organization:

GREELEY AND HANSEN

JA·UNDERGROUND
Engineers/Consultants

DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
Washington, D.C.

Combined Sewer System Structures Book

Table of Contents

Regulators, Inflatable Dams and Other Structures				
Structure No.	Structure Location	Type	Sewer Counter Map No.	Associated NPDES Outfall No.
1	West Side Emergency Overflow, BPWWTP	Bulkheaded	CD-23-24 SW	001
1a	East Side Emergency Overflow, BPWWTP	Bulkheaded	CD-23-24 SW	001
1b	Bolling AFB, 650 ft. north of the south line of the Base, SW	Junction	CD-21-22 SW	-
1c	First St. south of Joliet Street, SW	Junction	AB-23-24 SE	-
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	Regulator	CD-19-20 SW	003
2a	Potomac Force Main Crossover	Junction	AB-13-14 SW	-
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	Regulator	AB-10-20 SW	003
5	Poplar Point Pumping Station	Emergency San. Relief	AB-9-10 SE	004
5a	North of Anacostia Drive and South Capitol St Bridge, SE	Junction	AB-7-8 SE	-
5b	North of S. Capitol St and Firth Sterling Ave SE	Junction	AB-7-8 SE	-
5c	North of S. Capitol St and Firth Sterling Ave SE	Junction	AB-9-10 SE	-
6	Chicago Street and Railroad Ave, SE	Regulator	CD-9-10 SE	005
7	W Street. and Railroad Ave, SE	Regulator	CD-9-10 SE	005
8	Good Hope Rd, west of Nichols Ave, SE	Regulator	CD-7-8 SE	006
9, 9a	13th Street and Ridge Place, SE	Regulator	EF-7-8 SE	007
10	Anacostia Ave, west of Blaine Street, NE	Emergency San. Relief	IK-1-2 NE	008
10a	Hayes and Anacostia Ave, NE	Emergency San. Relief	LM-5-6 NE	061
11	"O" Street Pumping Station	Regulator	A-6 SE	011(a)
12	Storm Pump Discharge at Main Pumping Station	Regulator	A-6 SE	011
12a	N Street between 2nd and Canal Streets SE	Bulkheaded	B-6 SE	-
13	2nd Street, 300 ft. north of N Place, SE	Regulator	A-6 SE	009
14	2nd Street, 250 ft. north of N Place, SE	Regulator – Inflatable Dam	A-6 SE	011(a)
15	South Capitol and E Streets	Regulator – Inflatable Dam	A-3 SW	010
15a	Half and L Streets, SE	Regulator – Inflatable Dam	A-5 SE	010
15b	South Capitol and I Streets	Regulator	A-4 SE	010
15c	South Capitol and I Streets	Regulator	A-5 SW	010
15d	2nd and D Streets, SW	Siphon	A-2 SW	-
15e-1	South of 16th St Loop, NW	Flood Control	F-1 SW	-
15e-2	Independence Ave East of 17th St	Flood Control	F-2 SW	
15f	10th and Constitution Ave, NW	Flood Control	D-1 NW	-

Regulators, Inflatable Dams and Other Structures				
Structure No.	Structure Location	Type	Sewer Counter Map No.	Associated NPDES Outfall No.
16	North of Main Sewage Pumping Station	Regulator – Inflatable Dam	B-5 SE	012
17	4th and N Streets, SE, Both Extended	Regulator	B-6 SE	013
17a	K Street between 6th Street and 7th Street, SE	Regulator	C-4 SE	013
18	6th and M Streets, SE	Regulator	B-5 SE	014
19	9th and M Streets, SE	Regulator	C-5 SE	015
19a	9th and M Streets, SE	Regulator	C-5 SE	015
20	12th and M Streets, SE	Regulator	D-5 SE	016
20a	12th and M Streets, SE	Regulator	D-5 SE	016
21	14th and M Streets, SE	Regulator	E-5 SE	017
22a	Barney Circle and Pennsylvania Ave, SE	Regulator	F-4 SE	018
22b	Barney Circle and Pennsylvania Ave, SE	Regulator	F-4 SE	018
22c	Barney Circle and Pennsylvania Ave, SE	Regulator	F-4 SE	018
22d	Kentucky Ave and Potomac Street, SE	Regulator	F-3 SE	018
22e	14th Street and Kentucky Ave, SE	Regulator	E-2 SE	018
23	Independence Ave, 21st Street, SE, Extended	Regulator	G-1 SE	019
24	Northeast Boundary Sewer at Northeast Boundary Swirl Facility	Regulator – Inflatable Dam	GH-1-2 SE	019
24a	East Capitol St, west of RFK stadium	Regulator	GH-1-2 SE	019
24b	East Capitol St, west of RFK stadium	Junction	GH-1-2 SE	-
24c	East Capitol St, west of RFK stadium	Junction	GH-1-2 SE	-
24d	East Capitol St, west of RFK stadium	Siphon	GH-1-2 SE	-
28	21st and Constitution Ave, NW	Regulator	H-1 NW	020
28a	14th and Constitution Ave, NW	Bulkheaded	E-1 NW	-
28b	14th and Constitution Ave, NW	Bulkheaded	E-1 NW	-
29	22nd Street, between Constitution Ave and C St, NW	Regulator	H-1 NW	020
30	17th and D Streets, NW	Regulator	G-2N NW	020
31	15th Street and Pennsylvania Ave, NW	Regulator	E-2 NW	020
32	10th and New York Ave, NW	Abandoned	D-4 NW	-
33	10th and F Streets, NW	Regulator	D-3 NW	020
34	23rd Street, north of Constitution Ave, NW	Regulator – Inflatable Dam	I-1 NW	020
34a	23rd Street near C Street, NW	Regulator	I-1, NW	020
35	Northeast of Roosevelt Bridge, NW	Regulator – Inflatable Dam	I-1 NW	021

Regulators, Inflatable Dams and Other Structures				
Structure No.	Structure Location	Type	Sewer Counter Map No.	Associated NPDES Outfall No.
35a	26th and D Streets, NW (Kennedy Center Garage)	Junction	K-2 NW	-
35b	27th and G Streets, NW	Junction	K-3 NW	-
36	27th and I Streets, NW	Regulator	K-4 NW	022
36a	New Hampshire Ave and Eye Street, NW	Regulator	I-4 NW	022
36b	19th and L Streets, NW	Regulator	G-5 NW	022, 034
36c	18th and L Streets, NW	Junction	G-5 NW	-
36d	17th and L Streets, NW	Regulator	F-5 NW	022, 034
36e	17th and L Streets, NW	Junction	F-5 NW	-
36f	18th and M Streets, NW	Junction	G-5 NW	-
36g	18th and M Streets, NW	Regulator	G-5 NW	022, 034
36h	18th and M Streets, NW	Regulator	G-5 NW	022, 034
37	27th and Eye Streets, NW	Regulator	K-4 NW	022
37a	North of 27th and Eye Streets, NW	Junction	K-4 NW	-
38	29th and K Streets, NW	Regulator	K-4 NW	024
38a	30th Street, south of K Street, NW	Regulator	K-4 NW	024
38b	East of 30th St and Virginia Ave, NW	Siphon	K-4 NW	-
39	30th and K Streets, NW	Bulkheaded	K-4 NW	-
39a	30th and K Streets, NW	Regulator	K-4 NW	024
39b	30th and K Streets, NW	Regulator	K-4 NW	024
40	Jefferson and K Streets, NW	Bulkheaded	L-4 NW	-
40a	Jefferson and K Streets, NW	Storm	L-4 NW	-
40b	Jefferson and K Streets, NW	Storm	L-4 NW	-
41	31st and K Streets, NW	Storm	L-4 NW	-
41a	31st and K Streets, NW	Storm	L-4 NW	-
41b	31st and K Streets, NW	Regulator	L-4 NW	025
41c	31st and K Streets, NW	Regulator	L-4 NW	025
42	Wisconsin Ave and K Street, NW	Regulator	L-4 NW	026
42a	Wisconsin Ave and K Street, NW	Storm	L-4 NW	-
43	Potomac and Water Streets, NW	Regulator	M-5 NW	027
43a	Potomac and Water Streets, NW	Regulator	M-5 NW	027
44	Water Street, west of Potomac St, NW	Regulator	M-5 NW	027

Regulators, Inflatable Dams and Other Structures				
Structure No.	Structure Location	Type	Sewer Counter Map No.	Associated NPDES Outfall No.
45	36th and M Streets, NW	Regulator	N-5 NW	028
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	Regulator	O-5 NW	029
47	38th Street and Reservoir Road, NW	Regulator	N-8 NW	029
47a	37th and T Streets, NW	Regulator	N-9 NW	029
47b	37th and T Streets, NW	Regulator	N-9 NW	029
47c	38th and W Streets, NW	Regulator	O-10 NW	029
48	Canal Rd and Foxhall Rd, NW	Abandoned	O-6 NW	030
49	Pennsylvania Ave, east side of Rock Creek, NW	Regulator	K-5 NW	031
50	26 and M Streets, NW	Regulator	L-5 NW	032
51	N Street Extended, west of 25th Street, NW	Regulator	I-6 NW	033
52	22nd Street between M and N Streets, NW	Regulator – Inflatable Dam	H-6 NW	034
52a	N Street between 22nd and 23rd Streets, NW	Regulator	H-6 NW	034
53	22nd and M Streets, NW	Regulator	H-5 NW	022, 034
53a	22nd and M Streets, NW	Regulator	H-5 NW	022, 034
53b	L Street between 21st Street and New Hampshire Ave, NW	Regulator	H-5 NW	022, 034
53c	L and 22nd Streets, NW	Regulator	H-5 NW	022
54	23rd and O Streets, NW	Regulator	H-6 NW	034
55	22nd Street, south of Q Street, NW	Regulator	H-7 NW	035
55a	22nd Street, south of Q Street, NW	Regulator	H-7 NW	035
56	23rd and Massachusetts Ave, NW	Regulator	I-8 NW	036
57	23rd Street, south of Q Street, NW	Regulator	I-7 NW	036
58	Northwest of Belmont Rd and Rock Creek and Potomac Parkway, NW	Regulator	K-10 NW	037
59	North of Belmont Rd, east of Kalorama Cir, NW	Regulator	I-10 NW	038
60	Connecticut Ave, east of Rock Creek, NW	Regulator	IK-11-12 NW	039
61	Biltmore St, Extended, east of Rock Creek, NW	Regulator	H-11 NW	040
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	Regulator	H-13 NW	041
63	Harvard Street and Rock Creek Parkway, NW	Regulator	G-13 NW	042
64	Adams Mill Road, south of Irving Street, NW	Regulator	G-13 NW	043
65	Kenyon Street and Adams Mill Road, NW	Regulator	G-14 NW	044
65a	Kenyon Street and Adams Mill Road, NW	Regulator	H-14 NW	044
66	Adams Mill Road and Lamont Street, NW	Regulator	H-14 NW	045

Regulators, Inflatable Dams and Other Structures				
Structure No.	Structure Location	Type	Sewer Counter Map No.	Associated NPDES Outfall No.
67	Park Rd, south of Piney Branch Pkwy, NW	Regulator	H-16 NW	046
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	Regulator	G-16 NW	047
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	Regulator	G-16 NW	048
70	Piney Branch Parkway, west of 16th Street, NW	Regulator	EF-17-18 NW	049
70a	5th and Hamilton St NW	Junction	CD-21-22 NW	-
70b	5th and Hamilton St NW	Junction	CD-21-22 NW	-
70c	5th and Ingraham St NW	Junction	CD-21-22 NW	-
70d	5th and Ingraham St NW	Junction	CD-21-22 NW	-
70e	5th and Ingraham St NW	Junction	CD-21-22 NW	-
70f	5th and Missouri Ave NW	Junction	CD-23-24 NW	-
70g	5th and Missouri Ave NW	Junction	CD-23-24 NW	-
70h	5th and Missouri Ave NW	Junction	CD-23-24 NW	-
70i	5th and Quackenbos Streets, NW	Regulator	CD-25-26 NW	049
71	28th Street, west of Rock Creek Parkway, NW	Regulator	K-5 NW	050
72	Olive Street Extended and Rock Creek Pkwy, NW	Regulator	K-6 NW	051
72a	Olive Street Extended and Rock Creek Pkwy, NW	Regulator	K-6 NW	051
73	O Street Extended and Rock Creek Parkway, NW	Regulator	I-6 NW	052
74	Q Street, west of Rock Creek, NW	Regulator	I-7 NW	053
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	Regulator	K-9 NW	054
75a	Montrose Park Sewer	Junction	K-9 NW	-
76	Massachusetts Ave and Whitehaven St, N.W.	Abandoned	K-10 NW	055
77	Normanstone Dr Extended, west of Rock Creek, NW	Regulator	K-10 NW	056
77a	Normanstone Dr and Normanstone Lane, NW	Regulator	IK-11-12 NW	056
78	28th Street Extended, west of Rock Creek, NW	Regulator	I-10 NW	057
79	Connecticut Ave and Rock Creek Parkway, NW	Regulator	IK-11-12 NW	058
80	16th and Rittenhouse Streets, NW	Abandoned	EF-25-26 NW	059
81	Zoo Park Northeast of Cathedral Ave, NW	Junction	IK-13-14 NW	-
82	25th and P Streets, NW, both extended	Junction	I-7 NW	-
83	South of Porter St Bridge and Rock Creek, NW	Junction	IK-15-16 NW	-
83a	West Beach Drive and Broad Branch Road, NW	Junction	IK-19-20 NW	-
83b	West Beach Drive and Broad Branch Road, NW	Junction	IK-19-20 NW	-

Regulators, Inflatable Dams and Other Structures				
Structure No.	Structure Location	Type	Sewer Counter Map No.	Associated NPDES Outfall No.
84	26th and P Streets, NW	Regulator	K-7 NW	060
84a	26th and P Streets, NW	Regulator	I-7 NW	060
85	South of Beach Drive and Old Military Rd, NW	Junction	GH-23-24 NW	-
85a	South of Beach Drive and Old Military Rd, NW	Junction	GH-23-24 NW	-
Bolling-1	Bolling AFB Site Plan	-	-	-

Outfall Structures and Tide Gates							
NPDES Outfall	Outfall Location	Type of Outfall	Receiving Stream	Sewer Counter Map No.	Tide Gate Present?	Submergence at Low Tide?	Submergence at High Tide?
001	Blue Plains Wastewater Treatment Plant, Excess Flow Treatment Outfall	Wastewater Treatment Plant Outfall	Potomac River East Side	CD 25-26 SW	No	Submerged	Submerged
002	Blue Plains Wastewater Treatment Plant, Complete Treatment Outfall	Wastewater Treatment Plant Outfall	Potomac River East Side	CD 25-26 SW	No	Submerged	Submerged
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	CSO	Potomac River East Side	CD 21-22 SW	Yes	Partial	Partial
004	Downstream side of Fredrick Douglas Bridge	Emergency relief for Poplar Point P.S.	Anacostia River East Side	AB-7-8 SE	Yes	Partial	Partial
005	Across from Navy Yard, aligned with Parsons Ave., SE	CSO	Anacostia River East Side	CD-7-8 SE	Yes	Partial	Partial
006	Good Hope Road and Welsh Memorial Bridge	CSO	Anacostia River East Side	CD-7-8 SE	Yes	Partial	Partial
007	Between 11th St. and Anacostia Bridges, SE	CSO	Anacostia River East Side	CD-7-8 SE	Yes	Partial	Partial
008	Anacostia Avenue, west of Blaine St. NE	Relief for Anacostia Main Interceptor	Anacostia River East Side	IK 1-2 NE	Yes	Partial	Partial
009	O St. Sewage Pumping Station, SE	CSO	Anacostia River West Side	A-6 SE	Yes	Partial	Partial
010	O St. Sewage Pumping Station, SE	CSO	Anacostia River West Side	A-6 SE	No	Partial	Partial
011	Main Sewage Pumping Station, SE	CSO	Anacostia River West Side	A-6 SE	No	Partial	Partial
011(a)	Main Sewage Pumping Station, SE	CSO	Anacostia River West Side	A-6 SE	Yes	Partial	Partial
012	Main Sewage Pumping Station, SE	CSO	Anacostia River West Side	B-6 SE	Yes	Partial	Partial
013	Southeast Federal Center, aligned with 4th St.	CSO	Anacostia River West Side	B-6 SE	Yes	Submerged	Submerged
014	Navy Yard, aligned with 6th St., SE	CSO	Anacostia River West Side	B-6 SE	Yes	Partial	Partial
015	Navy Yard, aligned with 9th Street, SE	CSO	Anacostia River West Side	CD-7-8 SE	No	Partial	Partial
016	12th and O Streets, SE	CSO	Anacostia River West Side	D-6 SE	Yes	Partial	Partial
017	M and Water Street, SE	CSO	Anacostia River West Side	E-5 SE	Yes	Partial	Partial

Outfall Structures and Tide Gates							
NPDES Outfall	Outfall Location	Type of Outfall	Receiving Stream	Sewer Counter Map No.	Tide Gate Present?	Submergence at Low Tide?	Submergence at High Tide?
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	CSO	Anacostia River West Side	F-5 SE	Yes	Partial	Partial
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	CSO	Anacostia River West Side	H-3 SE	No	Partial	Partial
020	Rock Creek Parkway and Independence, NW	CSO	Potomac River East Side	I-1 SW	Yes	Partial	Partial
021	Rock Creek Parkway and C St., NW	CSO	Potomac River East Side	K-1 NW	No	Submerged	Submerged
022	Rock Creek Parkway and G St., NW	CSO	Potomac River East Side	K-3 NW	Yes	Partial	Partial
023	South of 30th and K Streets, NW	Abandoned CSO	Potomac River East Side	Abandoned	Abandoned	Abandoned	Abandoned
024	South of 30th and K Streets, NW	CSO	Potomac River East Side	K-4 NW	Yes	Partial	Submerged
025	South of 31st and K Streets, NW	CSO	Potomac River East Side	L-4 NW	Yes	Partial	Submerged
026	Wisconsin Avenue and Water Street, NW	CSO	Potomac River East Side	L-4 NW	Yes	Partial	Submerged
027	33rd and Water Sts., NW	CSO	Potomac River East Side	M-4 NW	No	Partial	Partial
028	Key bridge and Whitehurst Freeway, NW	CSO	Potomac River East Side	N-5 NW	No	Submerged	Submerged
029	Adjacent to C&O Canal, aligned with 38th St. NW	CSO	Potomac River East Side	O-5 NW	Yes	Partial	Submerged
030	Fox Hall and Canal Road	Abandoned CSO	-	Abandoned	Abandoned	Abandoned	Abandoned
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	CSO	Rock Creek East Side	K-5 NW	No	Not submerged	Not submerged
032	26th and M Street, NW.	CSO	Rock Creek East Side	K-5 NW	No	Submerged	Submerged
033	Across street from St. Francis Jr. High and aligned with N St., NW.	CSO	Rock Creek East Side	I-6 NW	Yes	Not submerged	Not submerged
034	Just west of St. Francis Jr. High and north of N St., NW	CSO	Rock Creek East Side	I-6 NW	Yes	Partial	Partial
035	P St. Bridge and Rock Creek Parkway	CSO	Rock Creek East Side	I-7 NW	Yes	Partial	Partial
036	22nd Street, South of Q Street NW.	CSO	Rock Creek East Side	I-7 NW	Yes	Partial	Partial
037	Waterside Dr. and Rock Creek Parkway	CSO	Rock Creek East Side	K-10 NW	Yes	Not submerged	Not submerged
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	CSO	Rock Creek East Side	I-10 NW	Yes	Partial	Partial

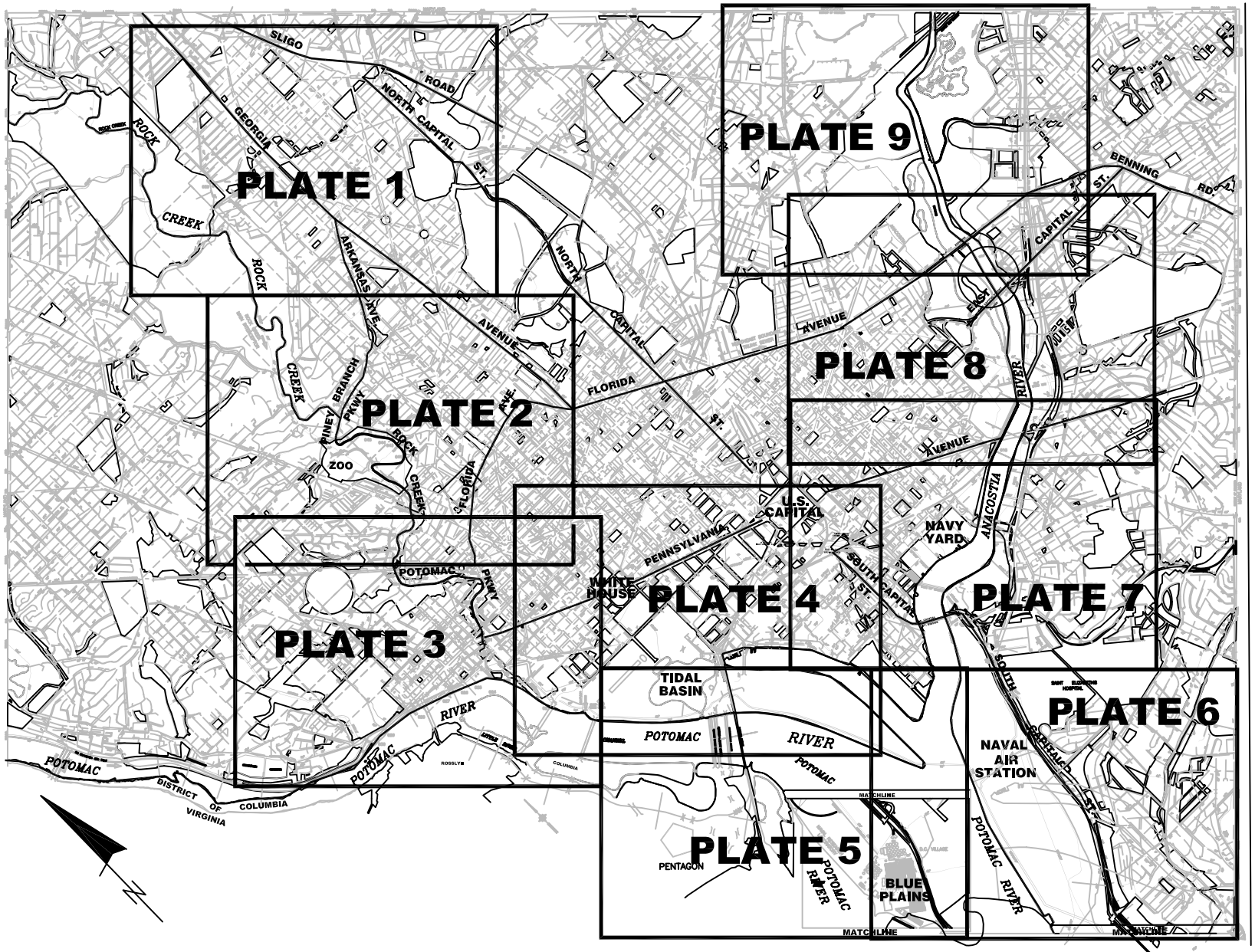
Outfall Structures and Tide Gates							
NPDES Outfall	Outfall Location	Type of Outfall	Receiving Stream	Sewer Counter Map No.	Tide Gate Present?	Submergence at Low Tide?	Submergence at High Tide?
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	CSO	Rock Creek East Side	IK-11-12 NW	Yes	Partial	Partial
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	CSO	Rock Creek East Side	H-11 NW	Yes	Partial	Partial
041	Beach Dr. and Ontario Pl., NW	CSO	Rock Creek East Side	H-13 NW	Yes	Not submerged	Not submerged
042	Harvard St. and Beach Dr NW.	CSO	Rock Creek East Side	H-13 NW	Yes	Not submerged	Not submerged
043	Upstream of Harvard St. and Beach Dr NW.	CSO	Rock Creek East Side	H-13 NW	Yes	Not submerged	Not submerged
044	Kenyon Street and Beach Dr., NW.	CSO	Rock Creek East Side	H-14 NW	Yes	Partial	Partial
045	North of Beach Dr. and Walbridge Pl, NW.	CSO	Rock Creek East Side	H-14 NW	Yes	Partial	Partial
046	Piney Branch Parkway and Park Road, NW.	CSO	Rock Creek East Side	H-16 NW	No	Not submerged	Not submerged
047	Piney Branch Parkway and Ingleside Terrace	CSO	Rock Creek East Side	G-16 NW	Yes	Not submerged	Not submerged
048	South of Piney Branch Parkway and 17th St.	CSO	Rock Creek East Side	G-16 NW	Yes	Not submerged	Not submerged
049	North of Piney Branch Parkway and 17th St.	CSO	Rock Creek East Side	EF-17-18 NW	Yes	Not submerged	Not submerged
050	Rock Creek Parkway and L St., NW	CSO	Rock Creek East Side	K-5 NW	Yes	Not submerged	Not submerged
051	Across Rock Creek Parkway, aligned with Olive St., NW.	CSO	Rock Creek East Side	K-6 NW	Yes	Not submerged	Not submerged
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	CSO	Rock Creek West Side	I-6 NW	Yes	Not submerged	Not submerged
053	Q St. Bridge and Rock Creek Parkway, NW.	CSO	Rock Creek West Side	I-7 NW	Yes	Partial	Partial
054	Massachusetts Avenue and Rock Creek Parkway, NW.	CSO	Rock Creek West Side	K-9 NW	Yes	Partial	Partial
055	Massachusetts Avenue and Rock Creek Parkway, NW.	Abandoned CSO	Rock Creek West Side	Abandoned	Abandoned	Abandoned	Abandoned
056	Normanstone Dr. and Rock Creek Parkway, NW.	CSO	Rock Creek West Side	K-10 NW	Yes	Not submerged	Not submerged

Outfall Structures and Tide Gates							
NPDES Outfall	Outfall Location	Type of Outfall	Receiving Stream	Sewer Counter Map No.	Tide Gate Present?	Submergence at Low Tide?	Submergence at High Tide?
057	28th Street and Rock Creek Parkway, NW	CSO	Rock Creek West Side	I-10 NW	Yes	Not submerged	Not submerged
058	Connecticut Avenue and Rock Creek Parkway, NW.	CSO	Rock Creek West Side	IK-11-12 NW	No	Partial	Partial
059	16th and Rittenhouse Streets, NW.	Abandoned CSO	Rock Creek West Side	Abandoned	Abandoned	Abandoned	Abandoned
060	North of P Street Bridge and Rock Creek Pkwy, NW	CSO	Rock Creek West Side	I-7 NW	Yes	Partial	Partial
061	Hayes and Anacostia Ave, NE	Emergency Bypass for Upper Anacostia Sewage P.S.	Tributary to Anacostia East Side	LM-5-6 NE	Yes	Submerged	Submerged
062	Earl Place Pumping Station, SE	Emergency Bypass for Earl Place Sewage P.S.	Tributary to Anacostia West Side	IK-13-14 NE	No	Not submerged	Not submerged

Sewage Pumping Stations		
ID No.	Name	Sewer Counter Map No.
PS-1	Raw Wastewater Pumping Station No. 1 (Blue Plains Wastewater Treatment Plant)	CD-23-24, SW
PS-2	Raw Wastewater Pumping Station No. 2 (Blue Plains Wastewater Treatment Plant)	CD-23-24, SW
PS-3	Main Sewage Pumping Station	B-6, SE
PS-3a	Main Sewage Pumping Station Detail	B-6, SE
PS-4	O Street Sewage Pumping Station	A-6, SE
PS-5	Potomac Sewage Pumping Station	K-1, NW
PS-6	Rock Creek Sewage Pumping Station	K-4, NW
PS-7	Poplar Point Sewage Pumping Station	AB-9-10, SE
PS-8	Eastside Sewage Pumping Station	H-2, SE
PS-9	Upper Anacostia Sewage Pumping Station	LM-5-6, NE
PS-10	Earl Place Sewage Pumping Station	IK-13-14, NE
PS-11	Third & Constitution Sewage Pumping Station	B-1, NW
PS-12	WSSC Anacostia Pumping Stations 1 &2	

Section 1

Site Plans (Plates)



REVISED BY: EPMC – 3A
REVISED DATE: DECEMBER 2004

NOT TO SCALE

OVERALL

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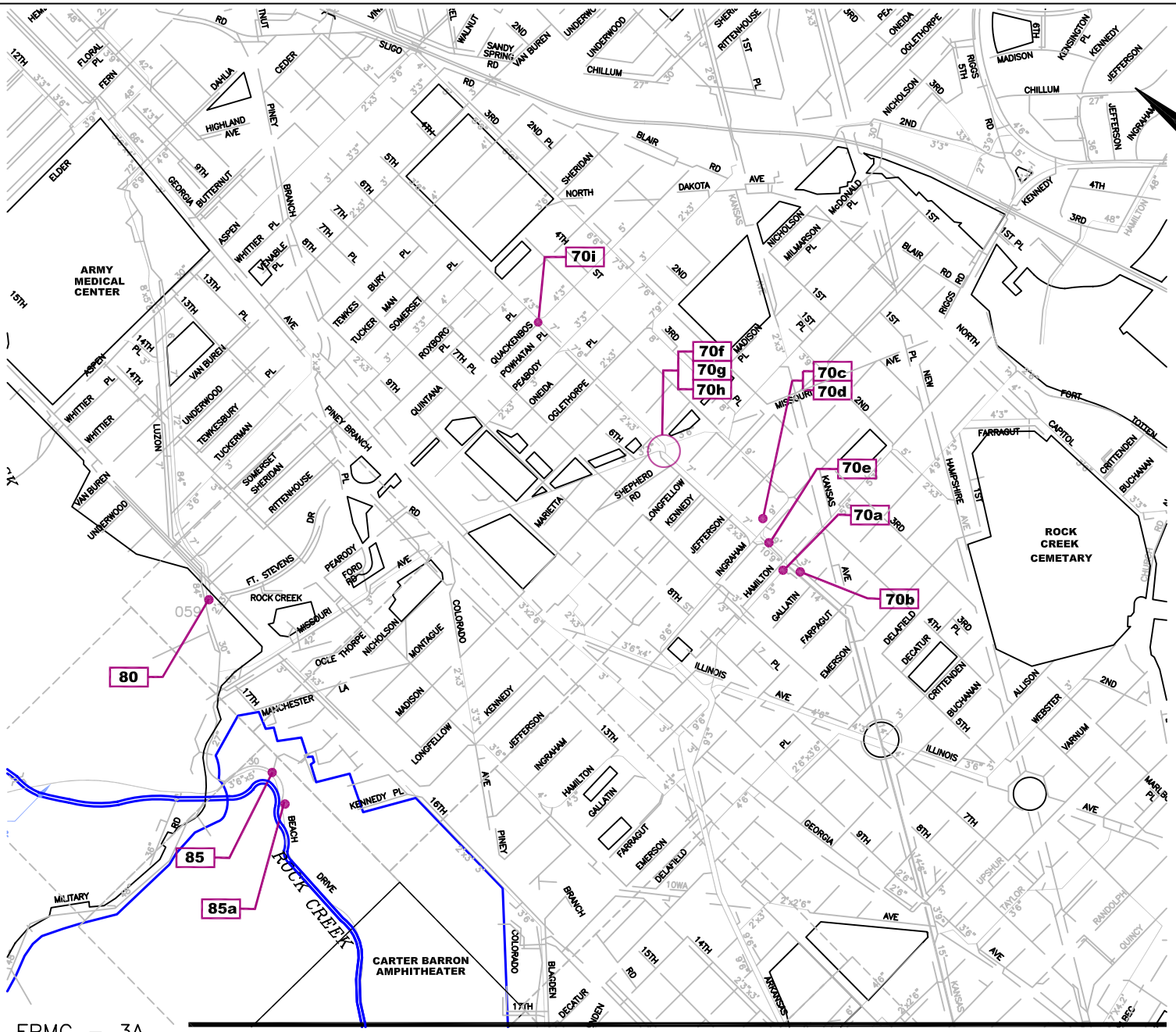

LEGEND

- PUMP STATION
- CSO OUTFALL
- STRUCTURE

REVISED BY: EPMC – 3A
REVISED DATE: DECEMBER 2004
OUTFALL TYPE:

PLATE 1

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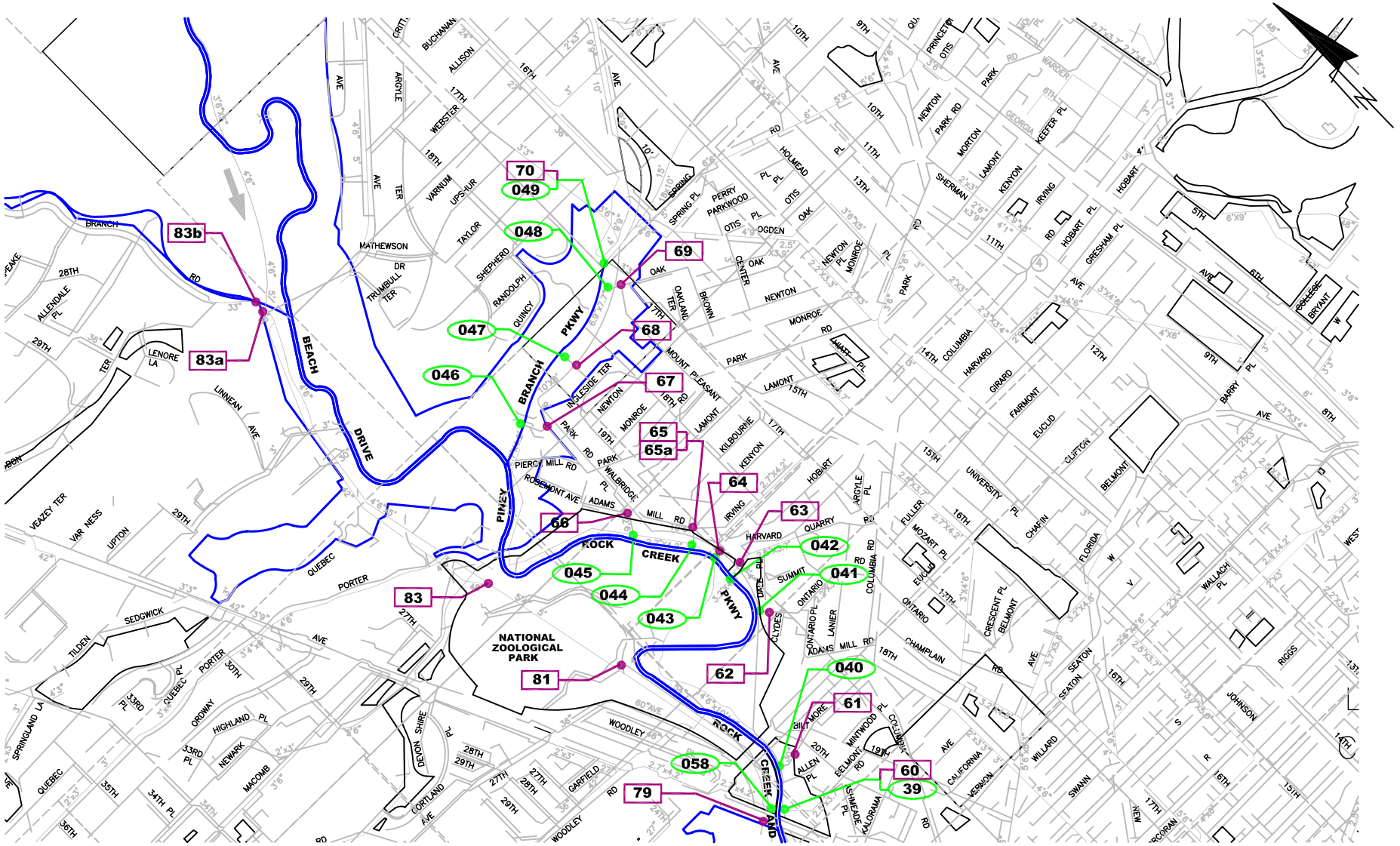

LEGEND

- PUMP STATION
- CSO OUTFALL
- STRUCTURE

REVISED BY: EPMC – 3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE:

10,000 FEET 5,000 0 10,000 20,000 30,000

PLATE 2

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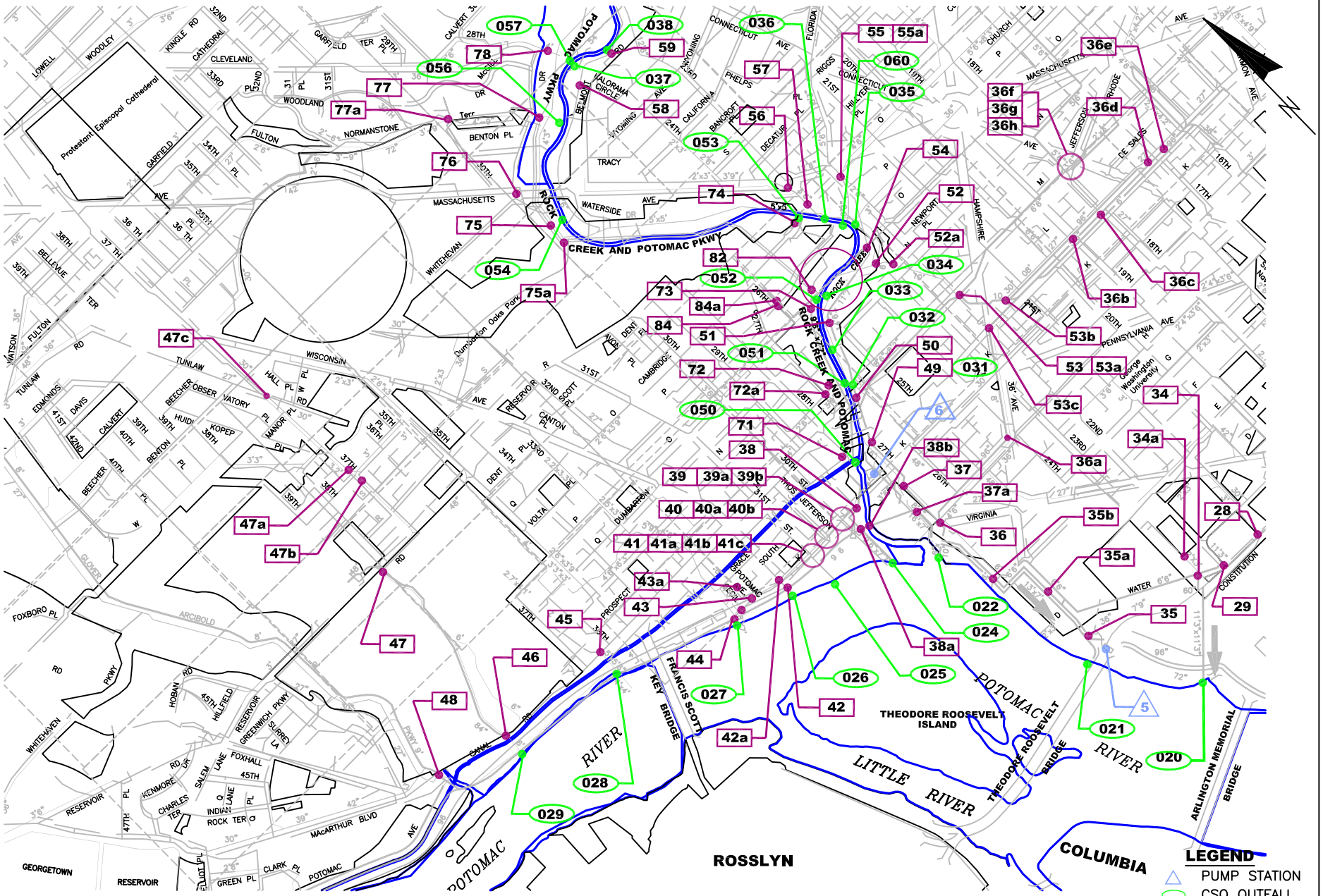

REVISED BY: EPMC – 3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE:

10,000 FEET 5,000 0 10,000 20,000 30,000

PLATE 3

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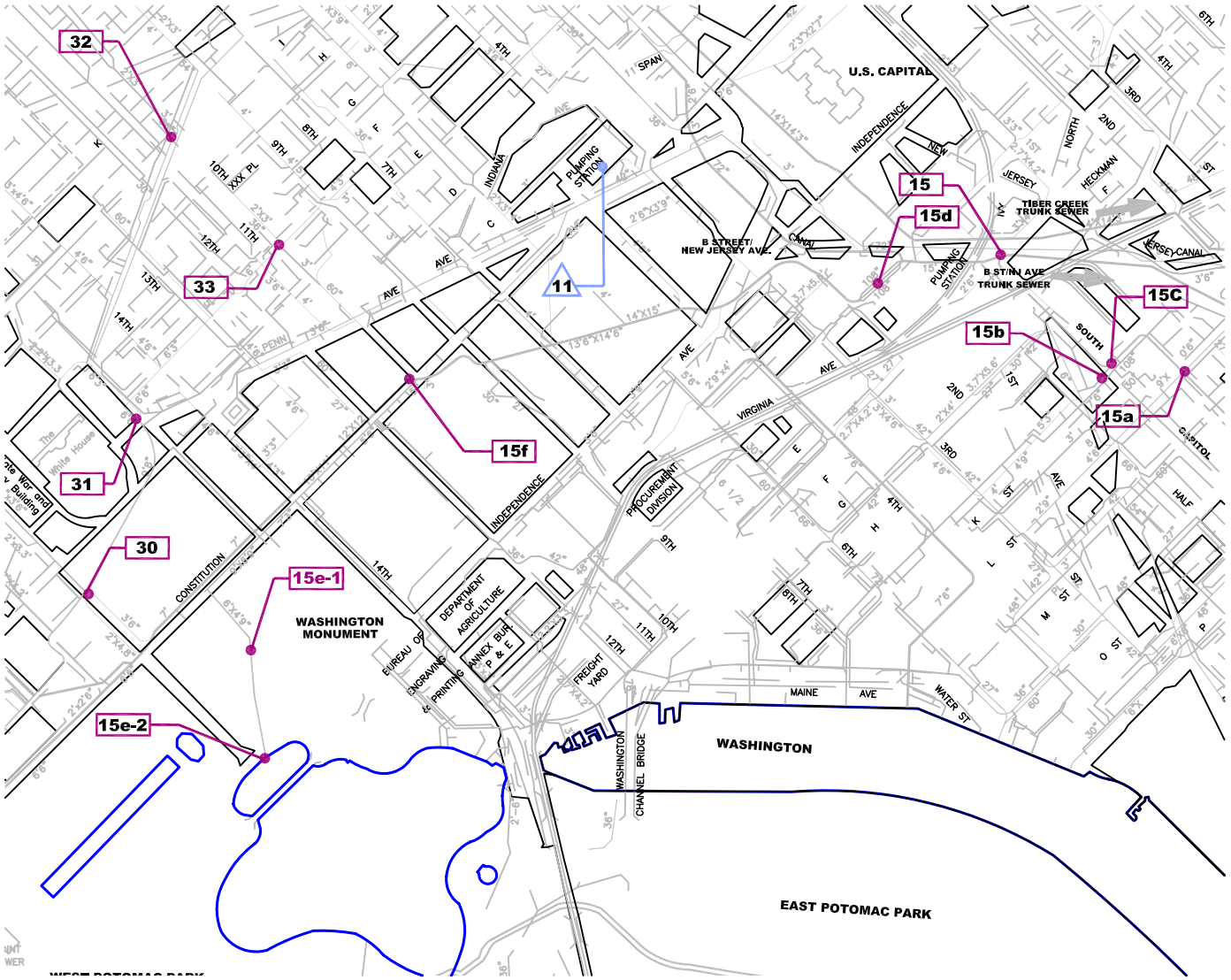

LEGEND

- PUMP STATION
- CSO OUTFALL
- STRUCTURE

REVISED BY: EPMC – 3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE:

10,000 FEET 5,000 0 10,000 20,000 30,000

PLATE 4

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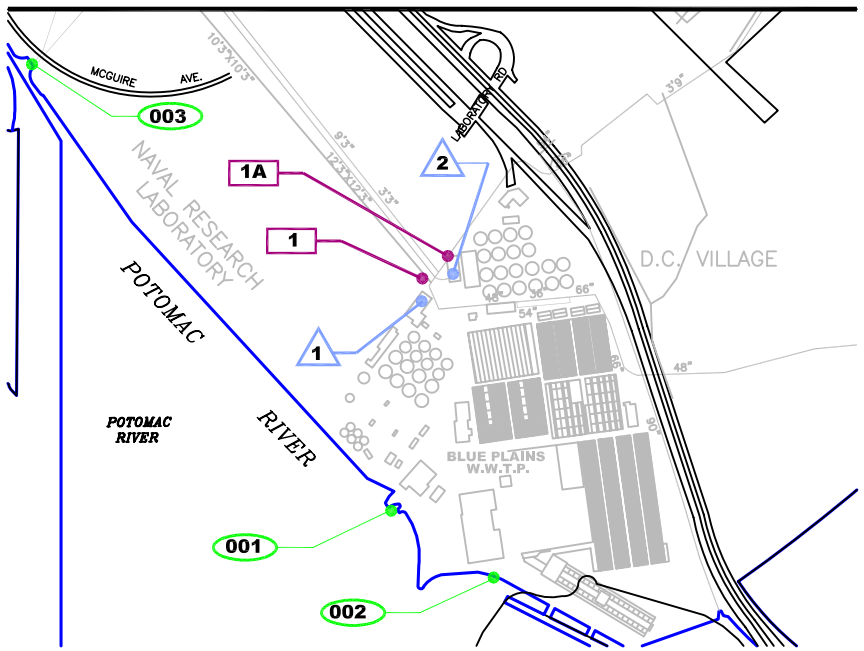
MATCHLINE SEE SHEET 6



LEGEND

- PUMP STATION
- CSO OUTFALL
- STRUCTURE

10,000 FEET 5,000 0 10,000 20,000 30,000

REVISED BY: EPMC – 3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE:

PLATE 5

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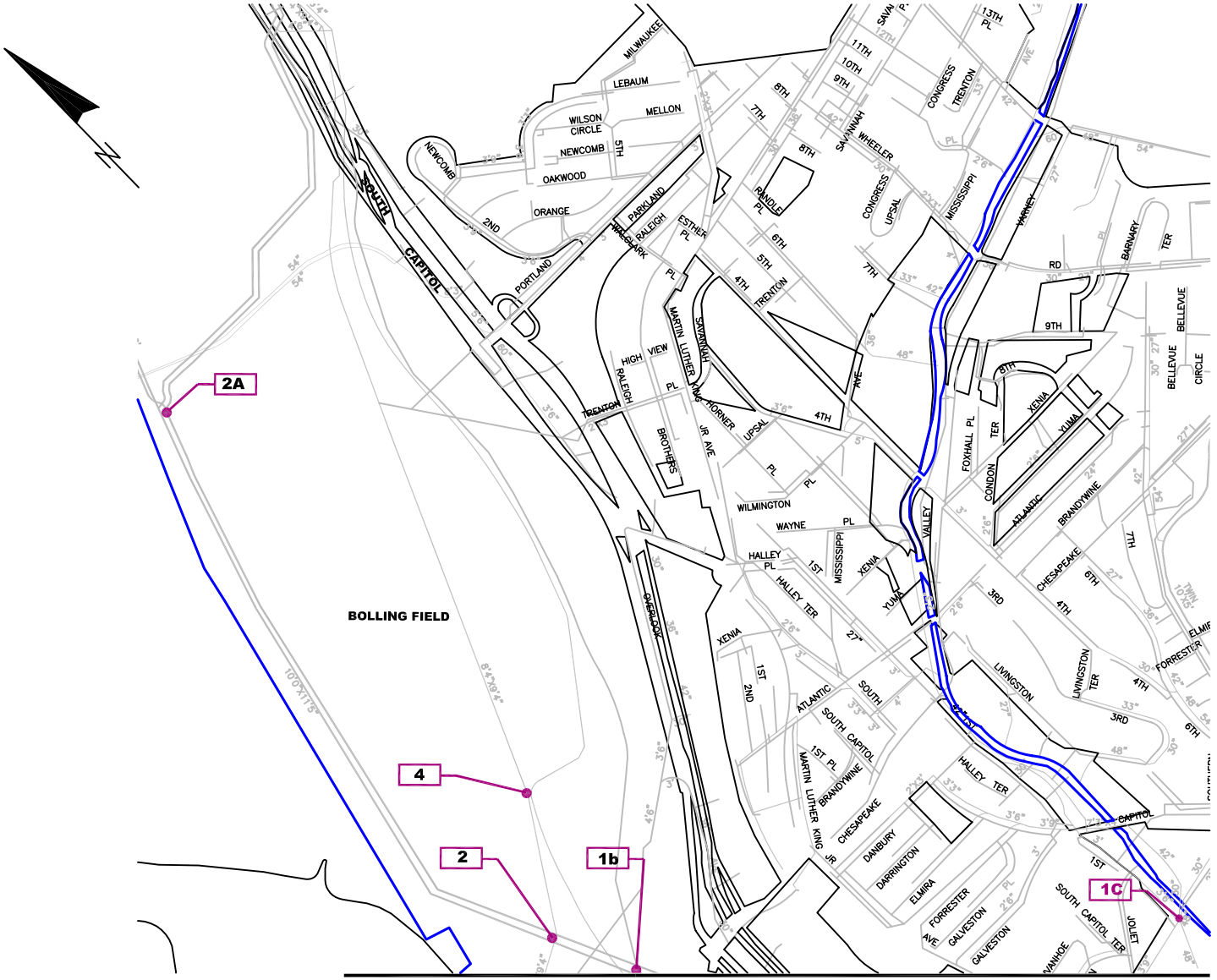

MATCHLINE SEE SHEET 5

10,000 FEET 5,000 0 10,000 20,000 30,000

LEGEND

- PUMP STATION
- CSO OUTFALL
- STRUCTURE

REVISED BY: EPMC – 3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE:

PLATE 6

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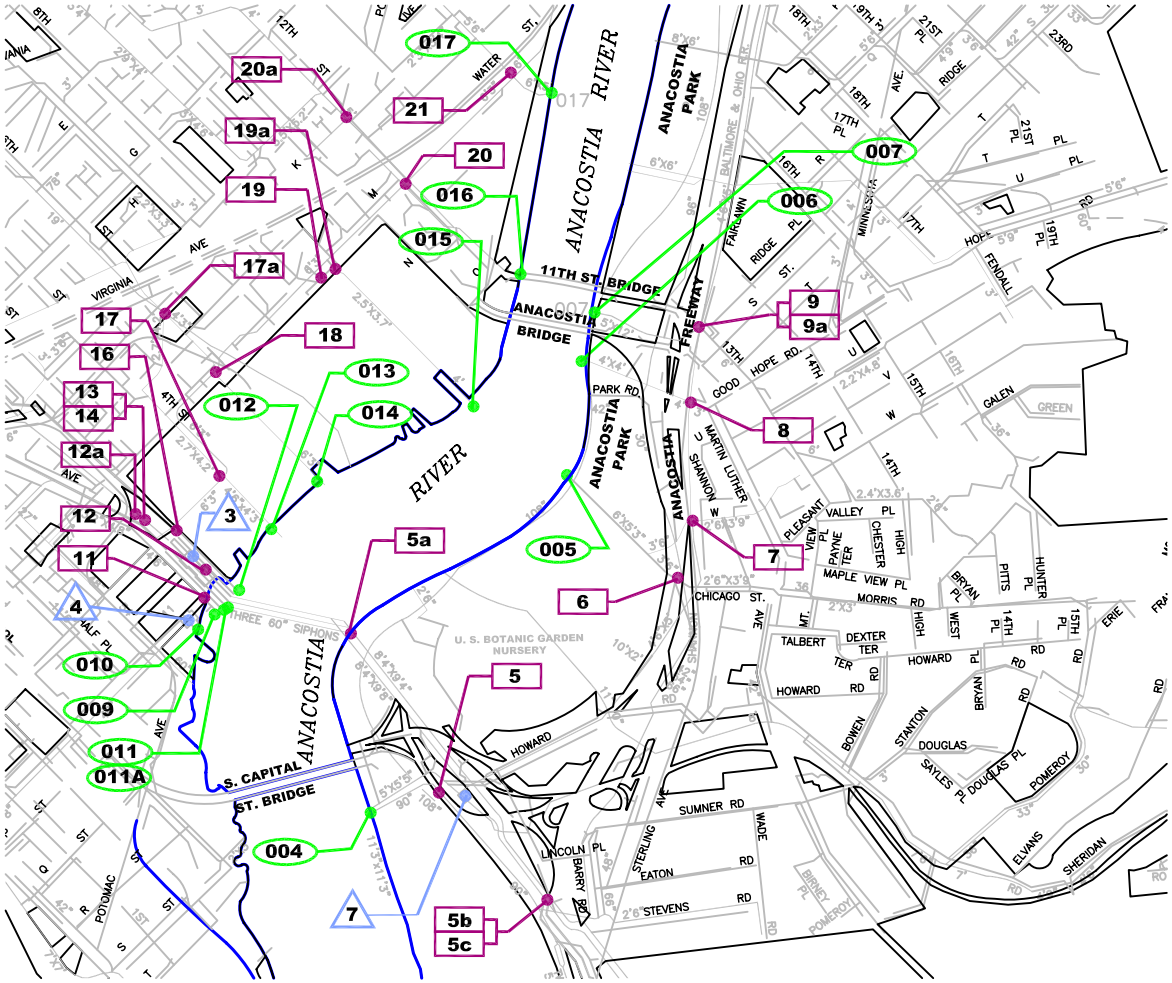


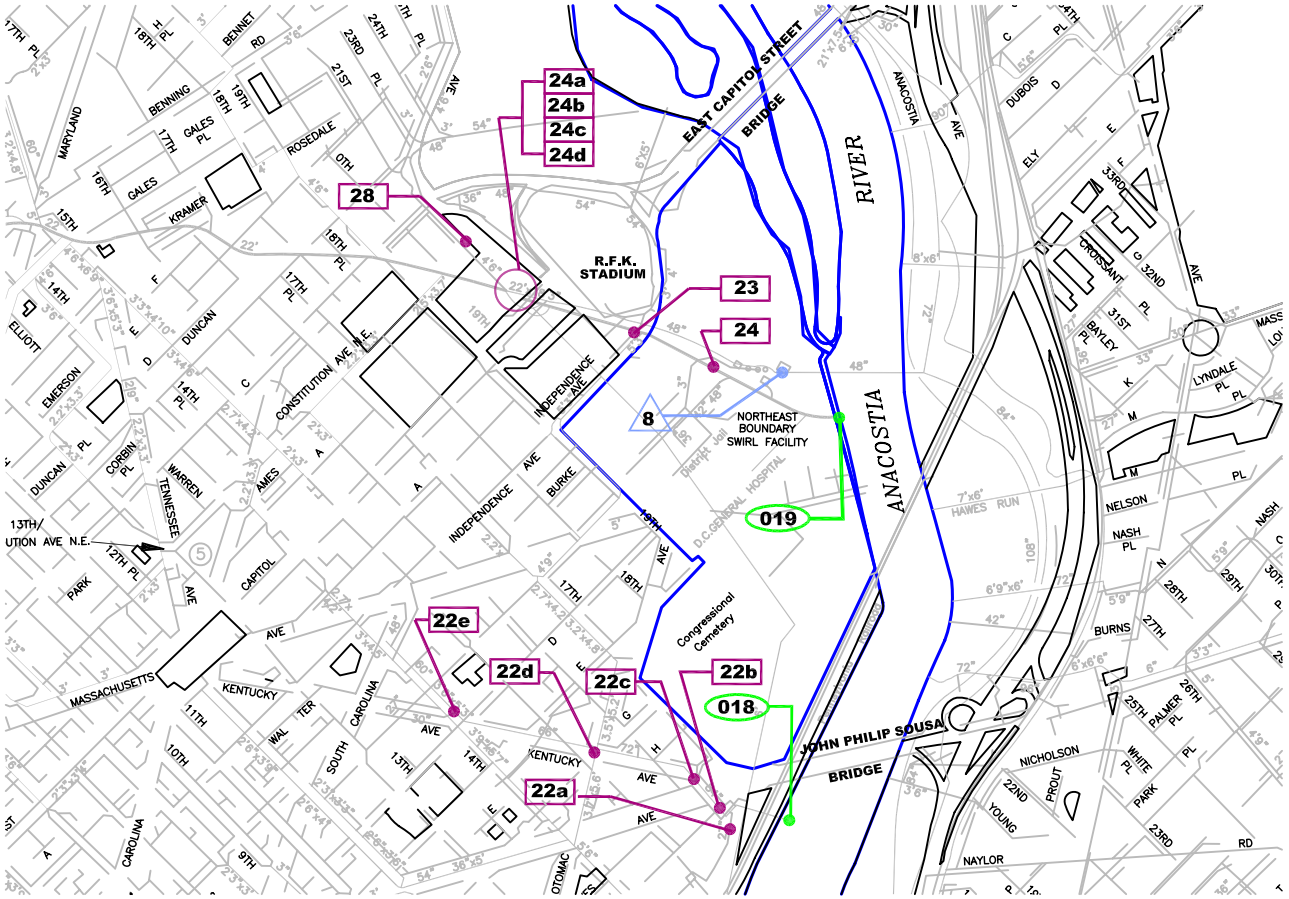
LEGEND

- PUMP STATION
- CSO OUTFALL
- STRUCTURE

10,000 FEET 5,000 0 10,000 20,000 30,000

REVISED BY: EPMC – 3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE:

PLATE 7



LEGEND

- PUMP STATION
- CSO OUTFALL
- STRUCTURE

REVISED BY: EPMC – 3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE:

10,000 FEET 5,000 0 10,000 20,000 30,000

PLATE 8

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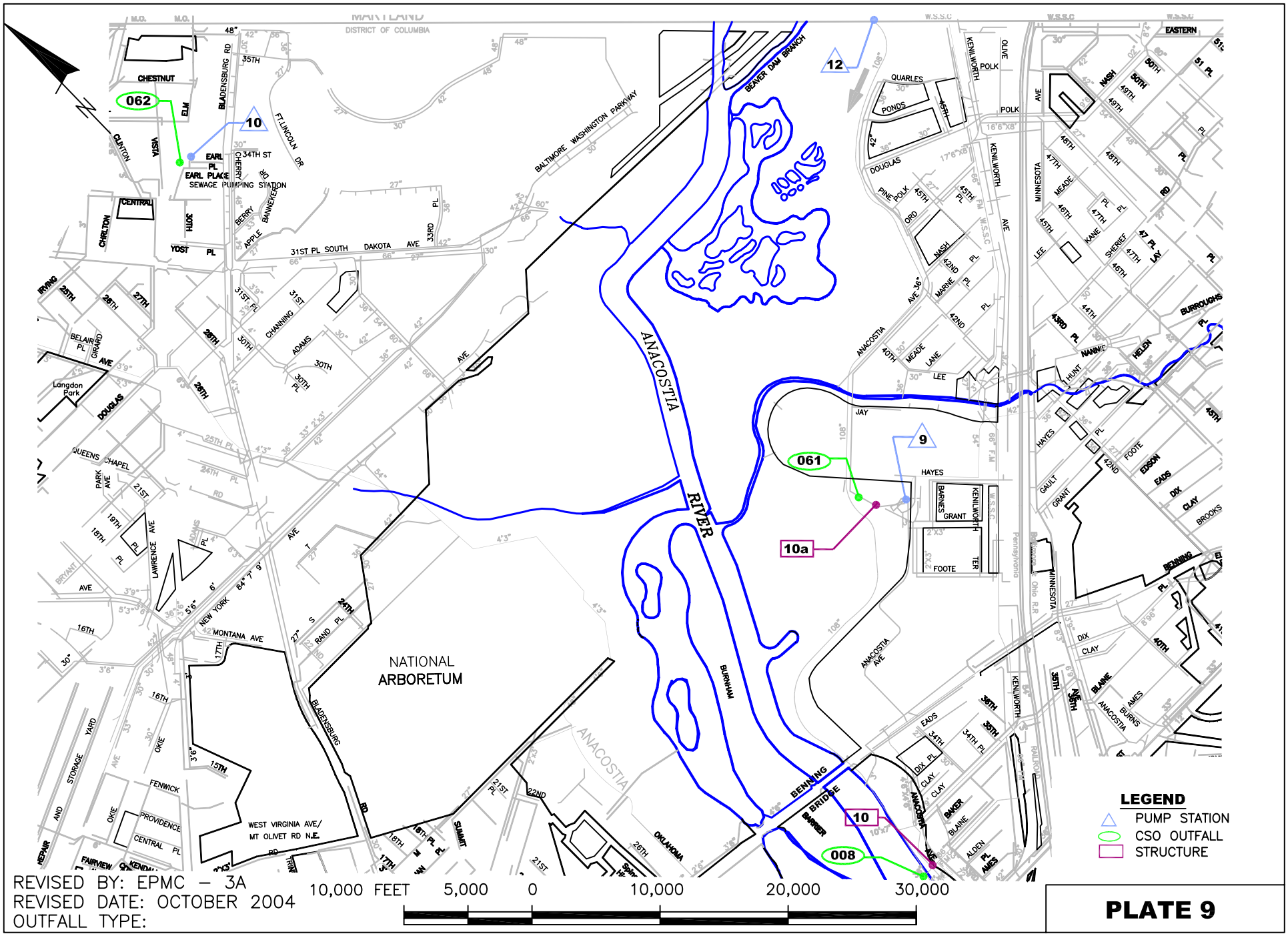


REVISED BY: EPMC – 3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE:

PLATE 9

J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\STR_CSO_PLATE\PLATE_9.DWG

Section 2

Regulators, Inflatable Dams and Other Structures

STRUCTURE NO. 1 WEST SIDE EMERGENCY OVERFLOW WASTEWATER TREATMENT PLANT, S.W.
JUST BEFORE THE 10'3" X 10'3" OUTFALL SEWER ENTERS THE NO. 1 PUMPING STATION, IT CAN OVERFLOW OVER SIDE WEIR SECTIONS AT ELEVATION 2.0 AND 2.5. THERE IS ALSO PROVISION TO RAISE THE OVERFLOW LEVEL AS HIGH AS 4.0 WITH STOP LOGS. OVERFLOW IS DISCHARGED THROUGH A 8'0" FLAP GATE OUT A SUBMERGED OUTFALL (001).

THERE IS A LIMIT SWITCH ON THE OVERFLOW TIDE GATE AT PUMPING STATION NO. 2 AND A LEVEL INDICATOR AT THE OVERFLOW WEIR AT PUMPING STATION NO. 1 BOTH OF WHICH INDICATE OVERFLOWS TO THE OUTFALL TO THE OUTFALL OVERFLOW MONITORING SYSTEM.

STRUCTURE NO. 1A EAST SIDE EMERGENCY OVERFLOW, WATER POLLUTION CONTROL PLANT, S.W.
THIS IS AN EMERGENCY BYPASS FOR THE WATER POLLUTION CONTROL PLANT. JUST BEFORE THE COMBINED OUTFALL RELIEF SEWER ENTERS THE NO. 2 PUMPING STATION, IT IS PROVIDED WITH AN OVERFLOW CONSISTING OF THREE 12 FT. C 5 FT. OPENING WITH A STILL ELEVATION OF 2.0. THESE OPENINGS ARE EQUIPPED WITH TIDE GATES.

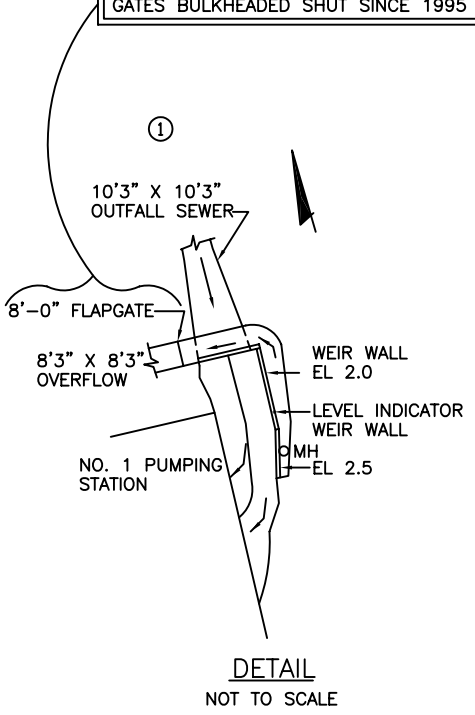
JUST UPSTREAM OF THE OVERFLOW OPENINGS, THE COMBINED AND SANITARY OUTFALL RELIEF SEWERS ARE CROSS-CONNECTED BY EIGHT 1-FT 9-IN BY 6 FT OPENINGS WITH A MASONRY CREST AT ELEVATION 2.0.

THE 10 FT BY 9 FT OVERFLOW LINE ULTIMATELY DISCHARGES TO THE POTOMAC RIVER THROUGH OUTFALL 001.

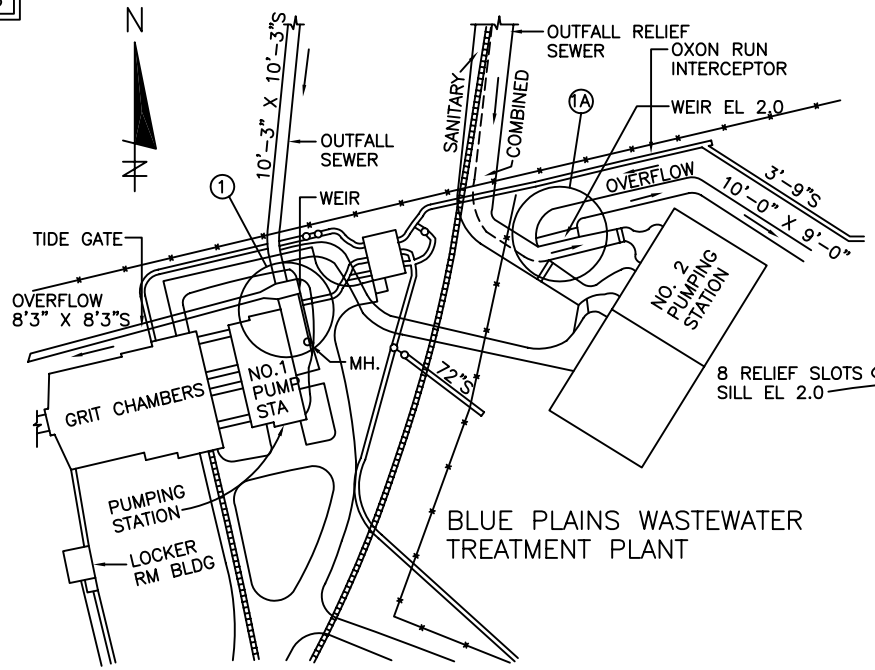
THERE IS A LIMIT SWITCH ON THE OVERFLOW TIDE GATE AT PUMPING STATION NO. 2 AND A LEVEL INDICATOR AT THE OVERFLOW WEIR AT PUMPING STATION NO. 1 BOTH OF WHICH INDICATE OVERFLOWS TO THE OUTFALL OVERFLOW MONITORING SYSTEM.

REFER TO STRUCTURE BOOK NO. PS-1 FOR ADDITIONAL INFORMATION ON PUMP STATION

GATES BULKHEADED SHUT SINCE 1995



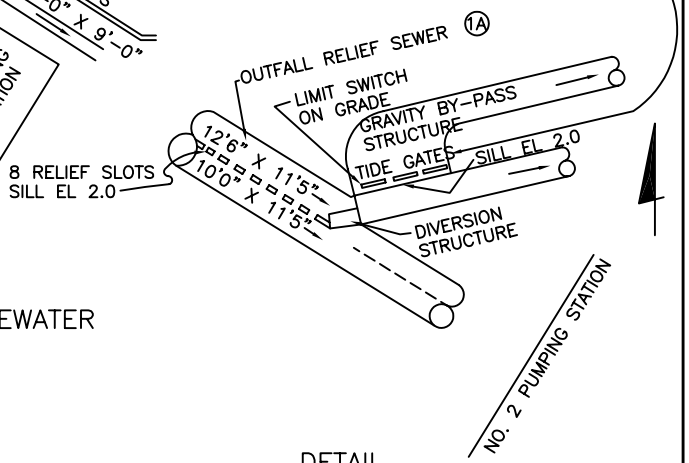
DETAIL
NOT TO SCALE



PLAN
1" =100' 100 0 100 200

REFER TO STRUCTURE BOOK NO. PS-2 FOR ADDITIONAL INFORMATION ON PUMP STATION

GATES BULKHEADED SHUT SINCE 1995



DETAIL
NOT TO SCALE

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL #001

STRUCTURE NO.
1, 1A

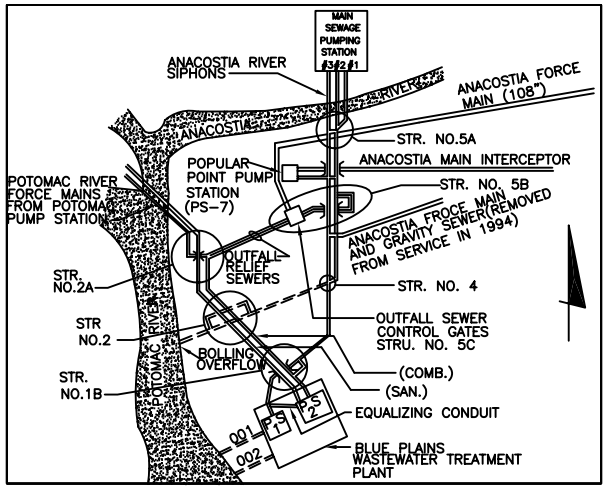
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS-01-01A 1:1 04/22/04 12:60 GH-G

STRUCTURE 1B OUTFALL RELIEF SEWER,
BOLLING AIR FORCE BASE
APPROXIMATELY 650 FT. NORTH OF THE
SOUTH LINE OF THE BASE

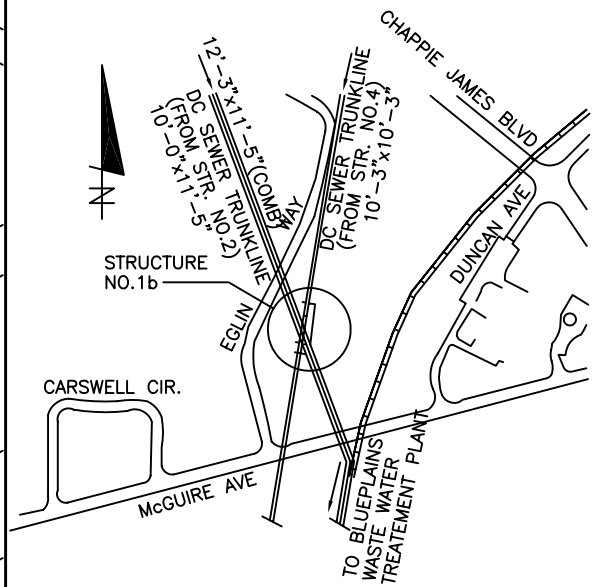
The Overflow Structure has a side Overflow Weir. The Overflow is formed by a mansonry dam. The Outfall Sewer passes through the structure and the overflow occurs during peak flows.

There is a Tide Gate in the chamber preventing any back up from Outfall Relief Sewer.

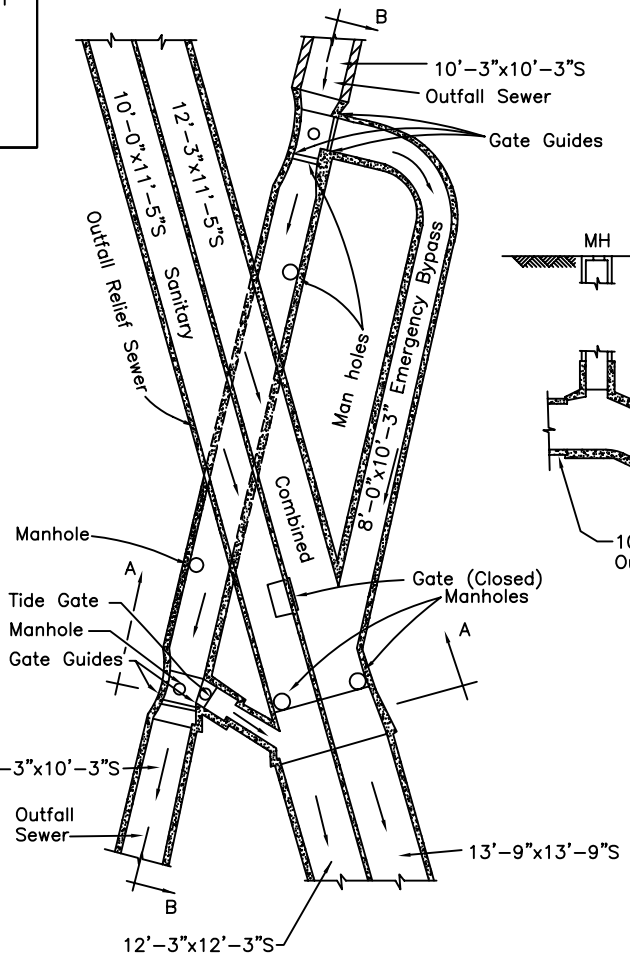
Approximately 140 ft. north of the structure there is an Emergency By-pass. By-pass was observed to be open 2/5/04.



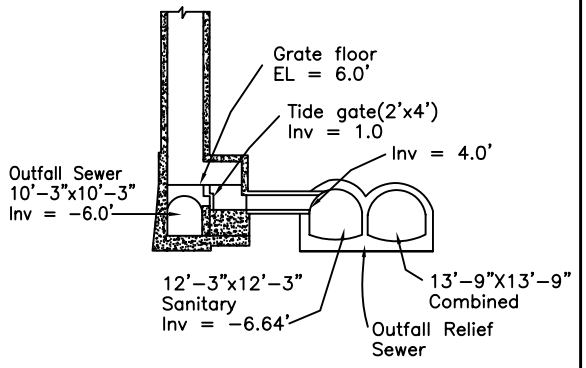
SCHEMATIC FLOW PLAN
NOT TO SCALE



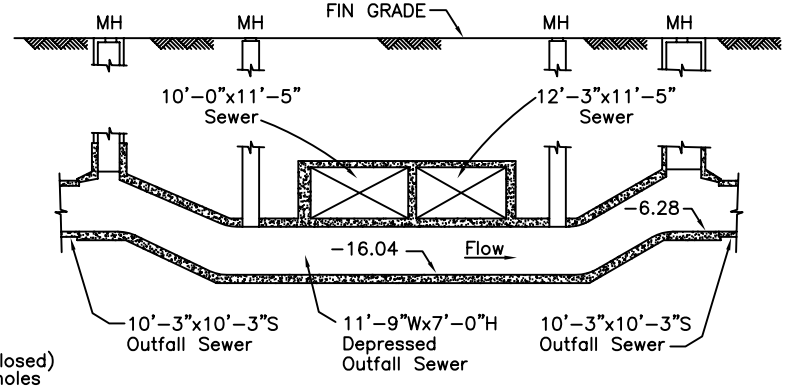
LOCATION PLAN
NOT TO SCALE



PLAN



SECTION A-A
NOT TO SCALE



SECTION B-B

1"=30'

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

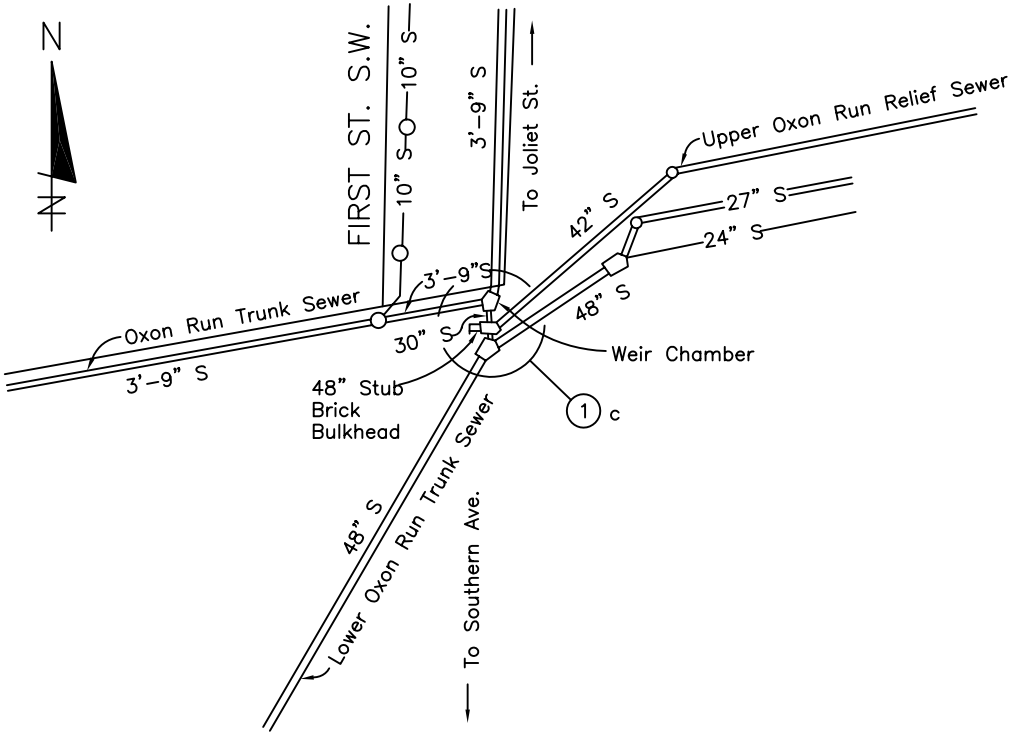
STRUCTURE NO.
1b

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-01B 1:1 04/22/04 12:56 GH-G

STRUCTURE NO. 1C, OXON RUN TRUNK RELIEF SEWER, 1st STREET, SOUTH OF JOLIET STREET, EXTENDED, S.W. The Overflow Structure has a side Overflow Weir located in a Diversion and Overflow Chamber. The 3–ft. 9–in. sewer enters the Overflow Chamber and the continuation of the 3–ft. 9–in. sewer conveys the Sanitary flow to Blue Plains Waste Water Treatment Plant.

The Overflow occurs only when the sewer surcharges.

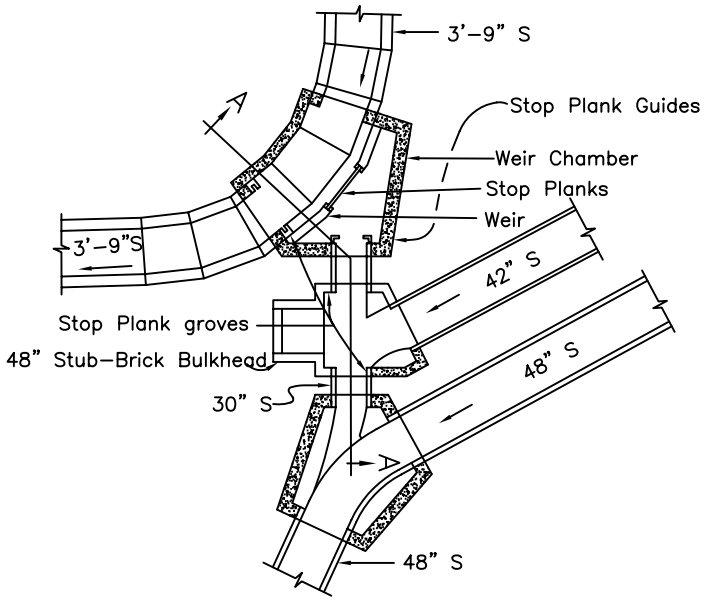
During any emergency the 3–ft.9–in. Outlet can be closed by means of stop–planks and by removing the stop–planks at the Weir then the flow can all be diverted to the Lower Oxon Run Trunk Sewer, which also continues to Blue Plains, Waste Water Treatment Plant.



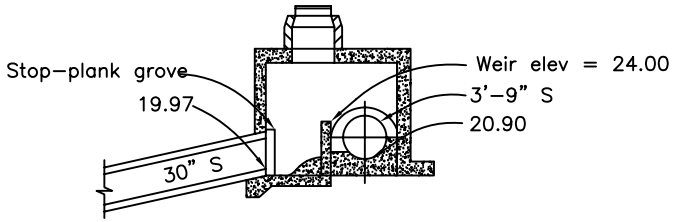
PLAN

1" = 100' 100 0 100 200

D.C. Maryland Line



DETAIL



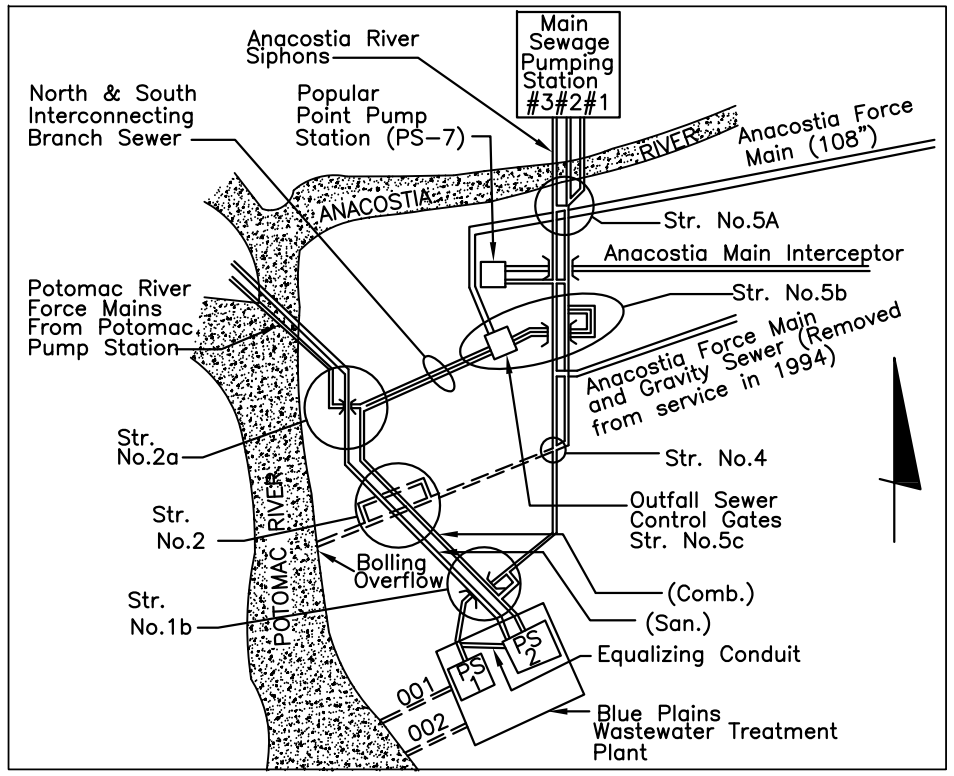
SECTION A–A

1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
1c

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–01C 1:1 04/22/04 13:08 GH–G



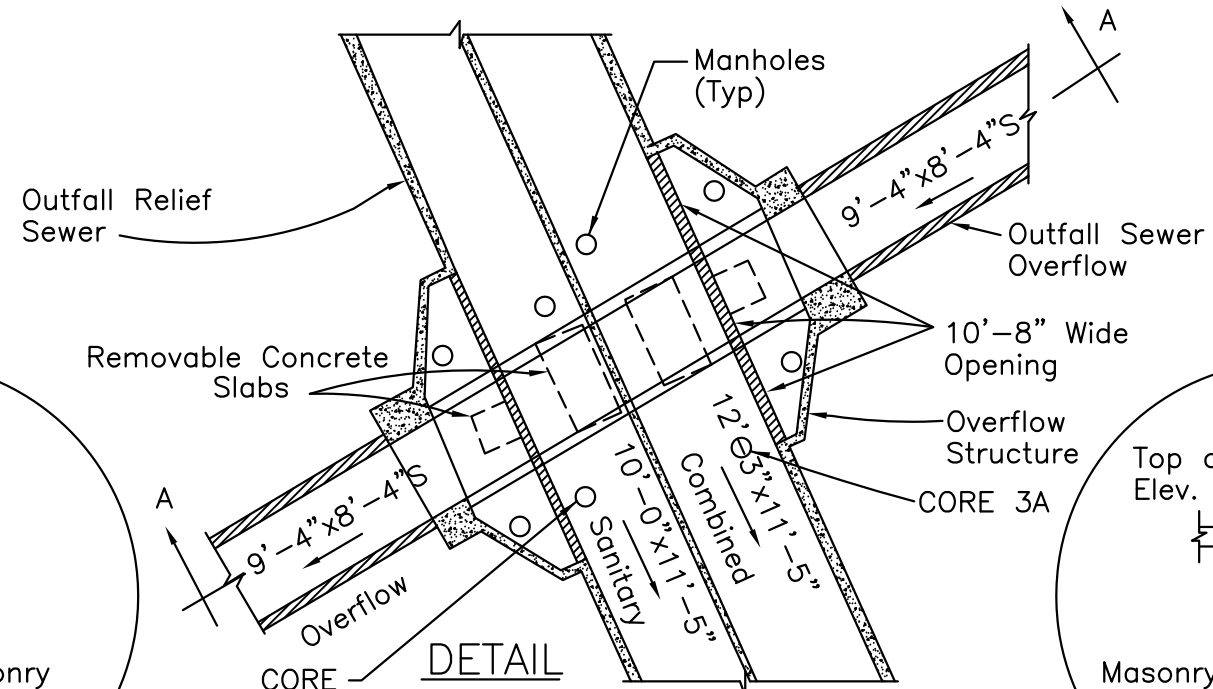
SCHEMATIC FLOW PLAN
NOT TO SCALE

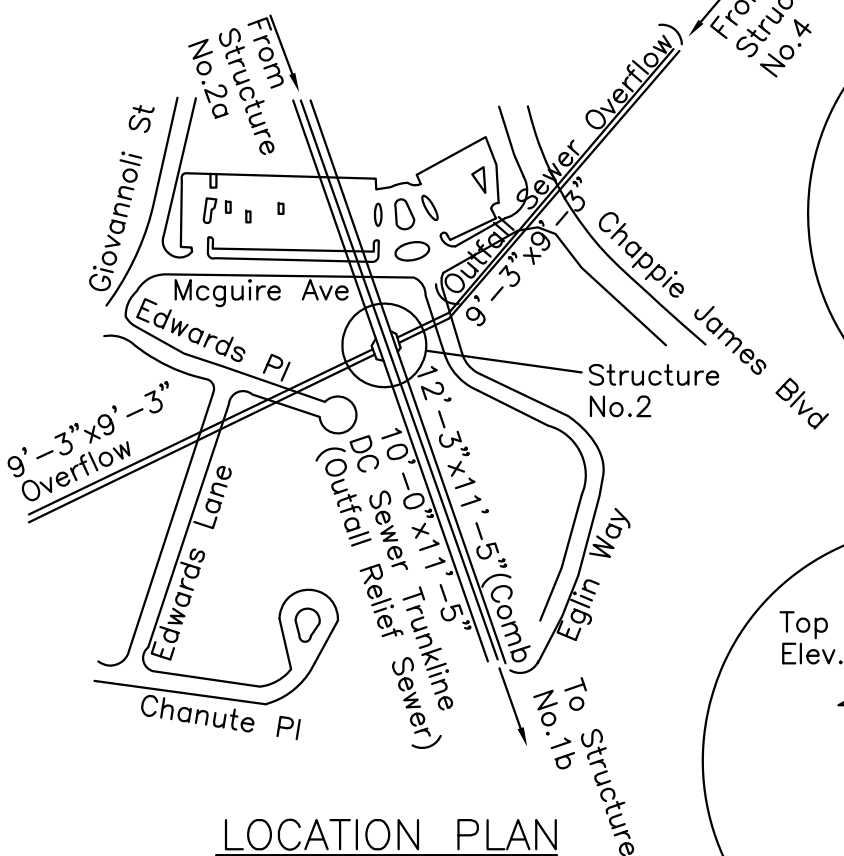
STRUCTURE NO. 2 OUTFALL RELIEF SEWER, BOLLING AIR FORCE BASE APPROXIMATELY 2250 FT. NORTH OF THE SOUTH LINE OF THE BASE AND 800 FT. EAST OF THE POTOMAC RIVER BANK, MCGUIRE AVENUE AND EGLIN WAY

The Sanitary and the Combined Outfall Relief Sewer flows south to Blue Plains Waste Water Treatment Plant in parallel and either sewer may overflow at this structure through a series of three side overlow weirs on each side of the structure. Each of the six bays of the weirs is 10 ft,8 in. wide.

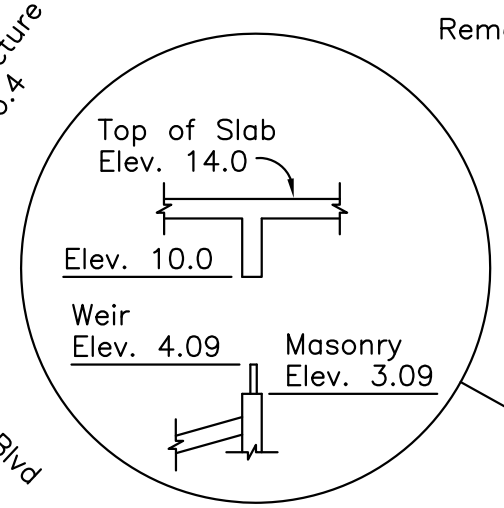
The 9ft–4in. by 8ft.–4in. Overlow line discharges into the Potomac River.

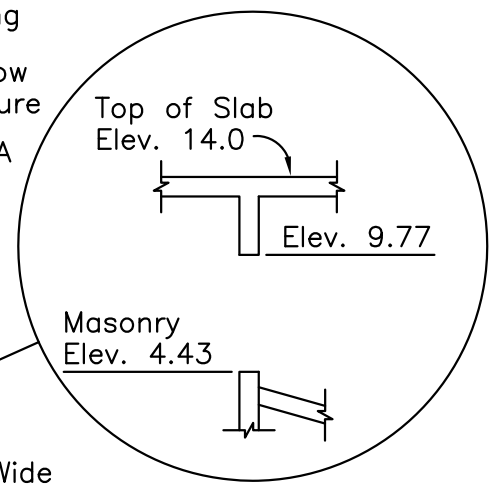
There are Level Sensors which indicates Overflow in both of the 10 ft. by 11 ft. 5 in. Conduits. These report flow levels to the Outfall Overflow Monitoring System Located at Blue Plains Pumping Station No. 2.

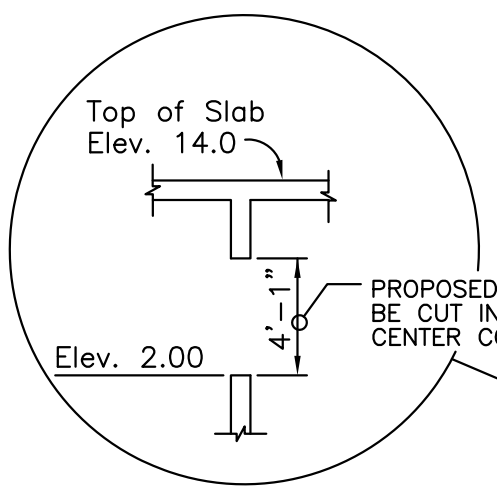


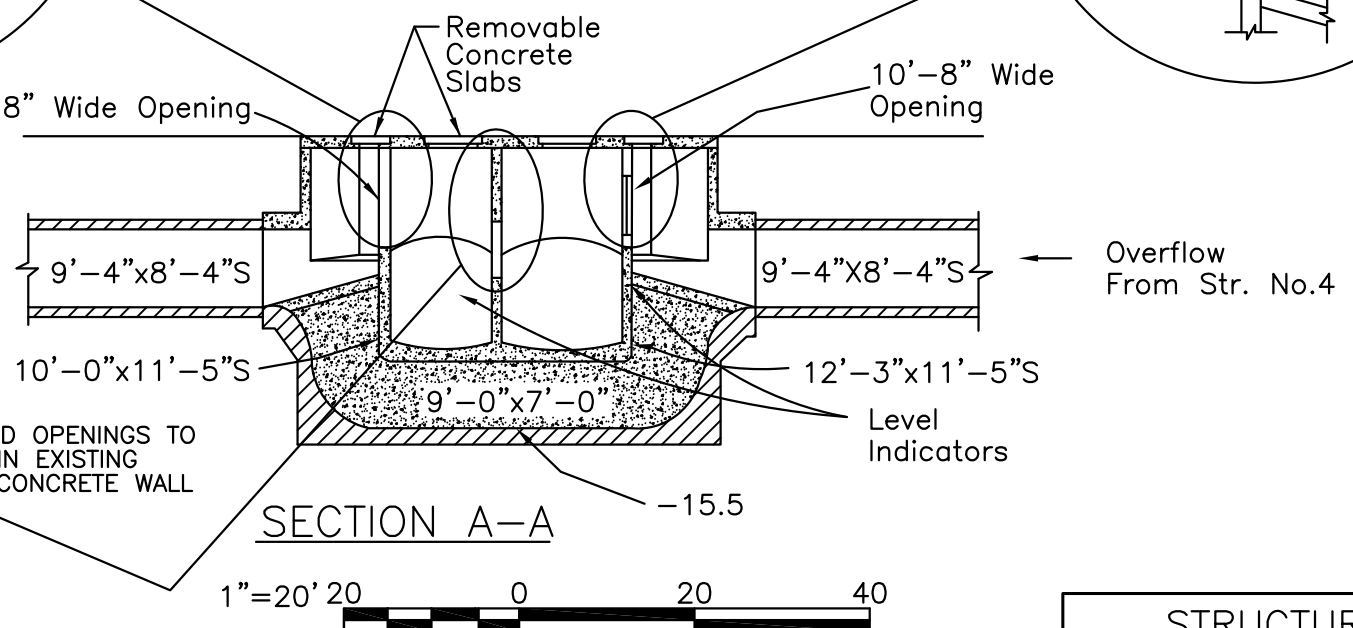


LOCATION PLAN
NOT TO SCALE









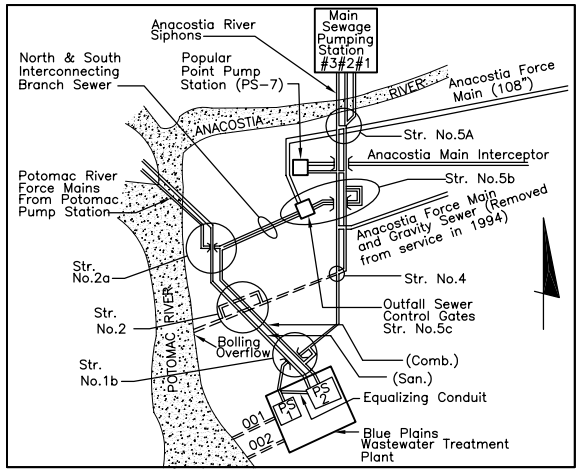
SECTION A–A

1"=20' 20 0 20 40

REVISED BY: EPMC–3B
REVISED DATE: JANUARY 2011
ASSOCIATED NPDES OUTFALL # 003

STRUCTURE NO. 2

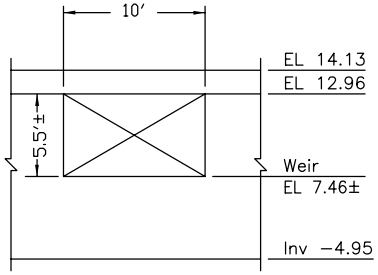
FILE: H:\1163\MAST PLAN\TECH MEMO\WASA STRUCTURE BOOK\CURRENT\STRUCTURE\STR-02.DWG



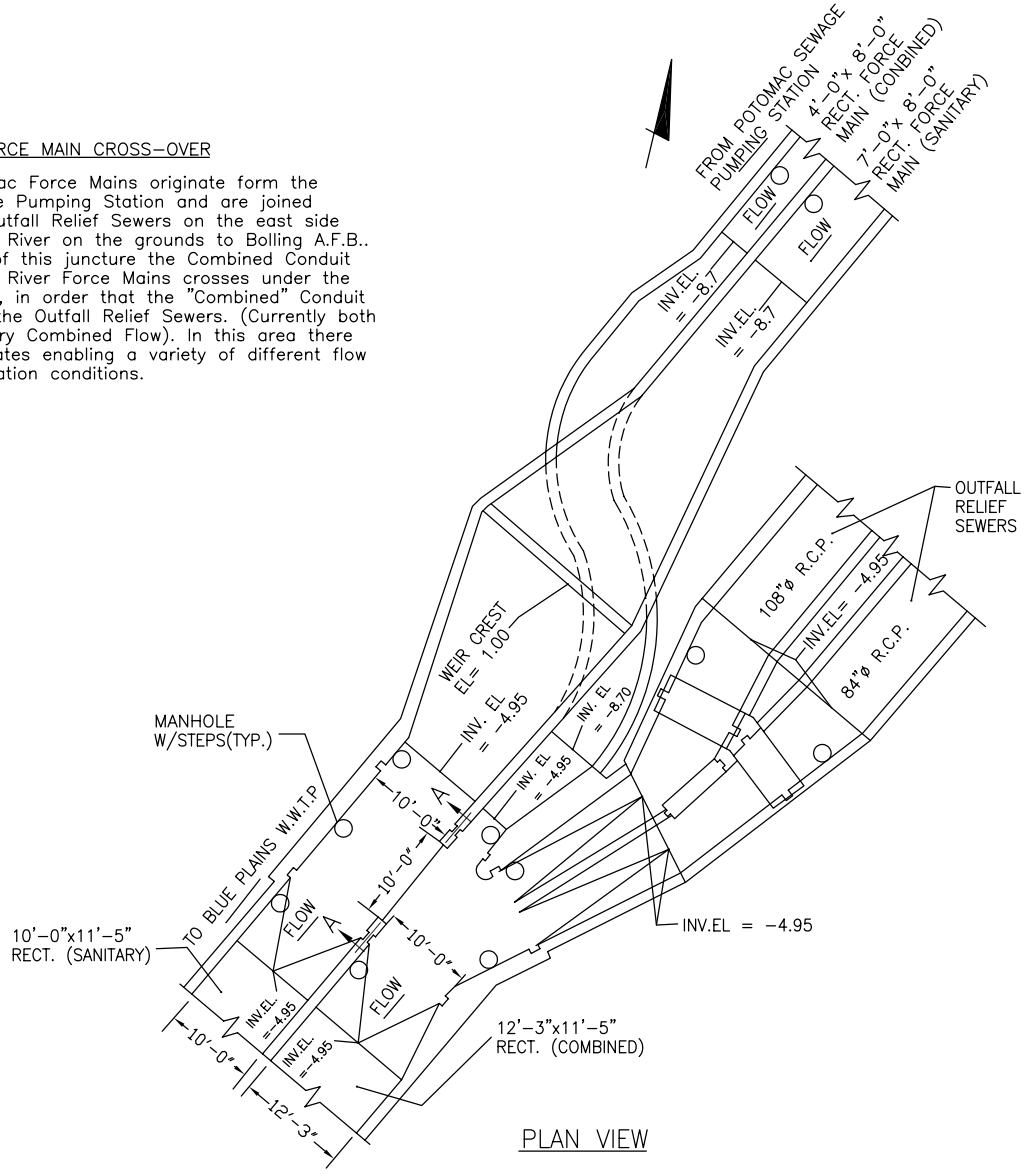
SCHEMATIC FLOW PLAN
NOT TO SCALE

2a POTOMAC FORCE MAIN CROSS-OVER

The Twin Potomac Force Mains originate form the Potomac Sewage Pumping Station and are joined with the Twin Outfall Relief Sewers on the east side of the Potomac River on the grounds to Bolling A.F.B.. Just upstream of this juncture the Combined Conduit of the Potomac River Force Mains crosses under the Sanitary Conduit, in order that the "Combined" Conduit is aligned with the Outfall Relief Sewers. (Currently both Force Mains carry Combined Flow). In this area there are ten Slide Gates enabling a variety of different flow control and isolation conditions.



SECTION A-A



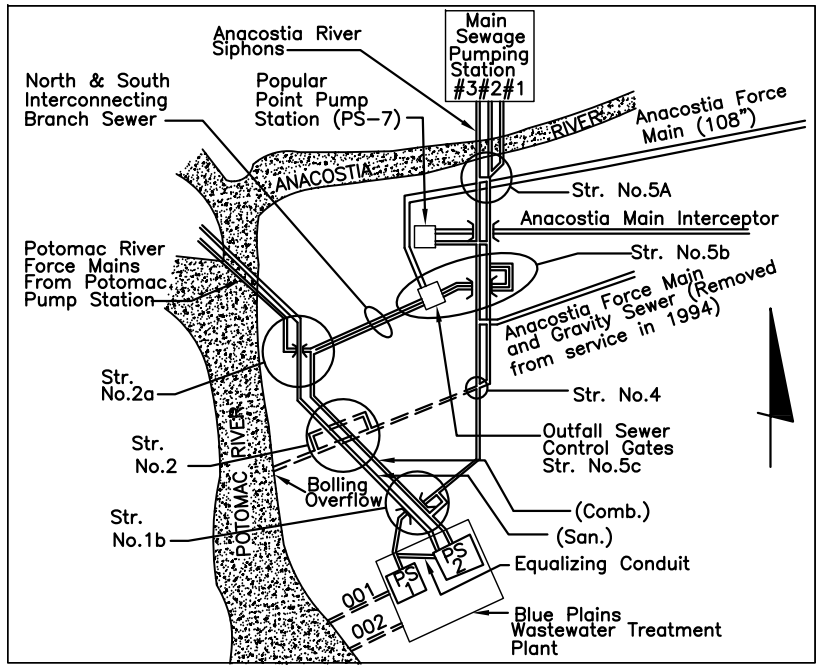
PLAN VIEW

POTOMAC FORCE MAIN CROSS-OVER
NOT TO SCALE

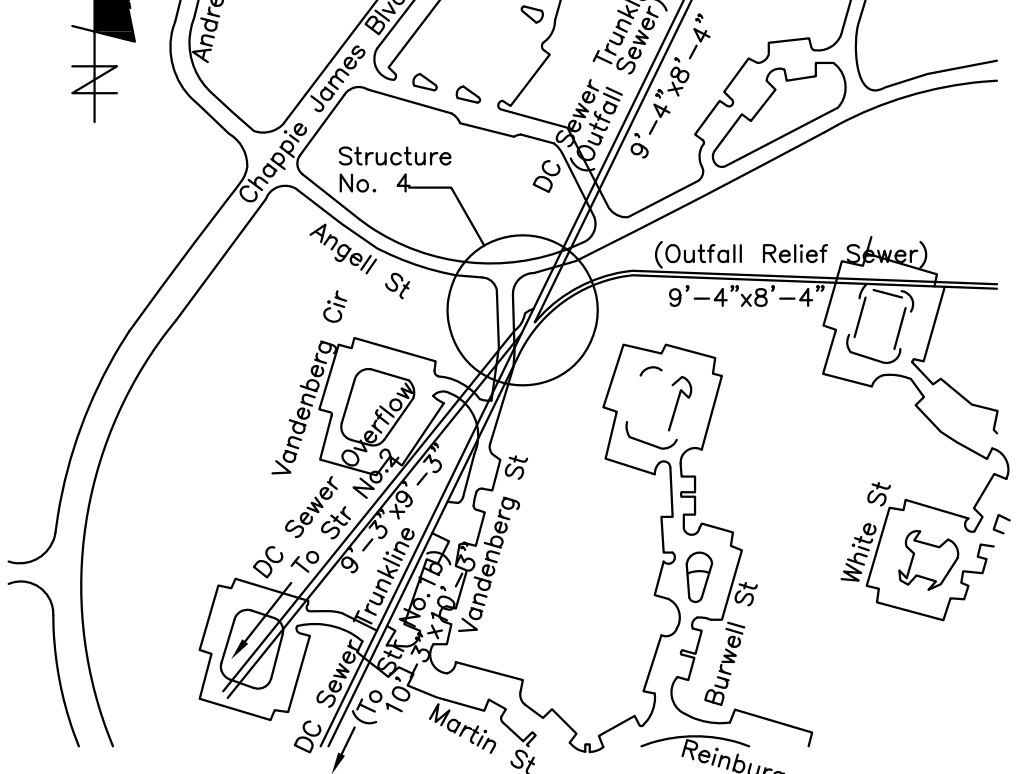
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
2a

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-02A 1:1 04/22/04 13:15 GH-G



SCHEMATIC FLOW PLAN
NOT TO SCALE



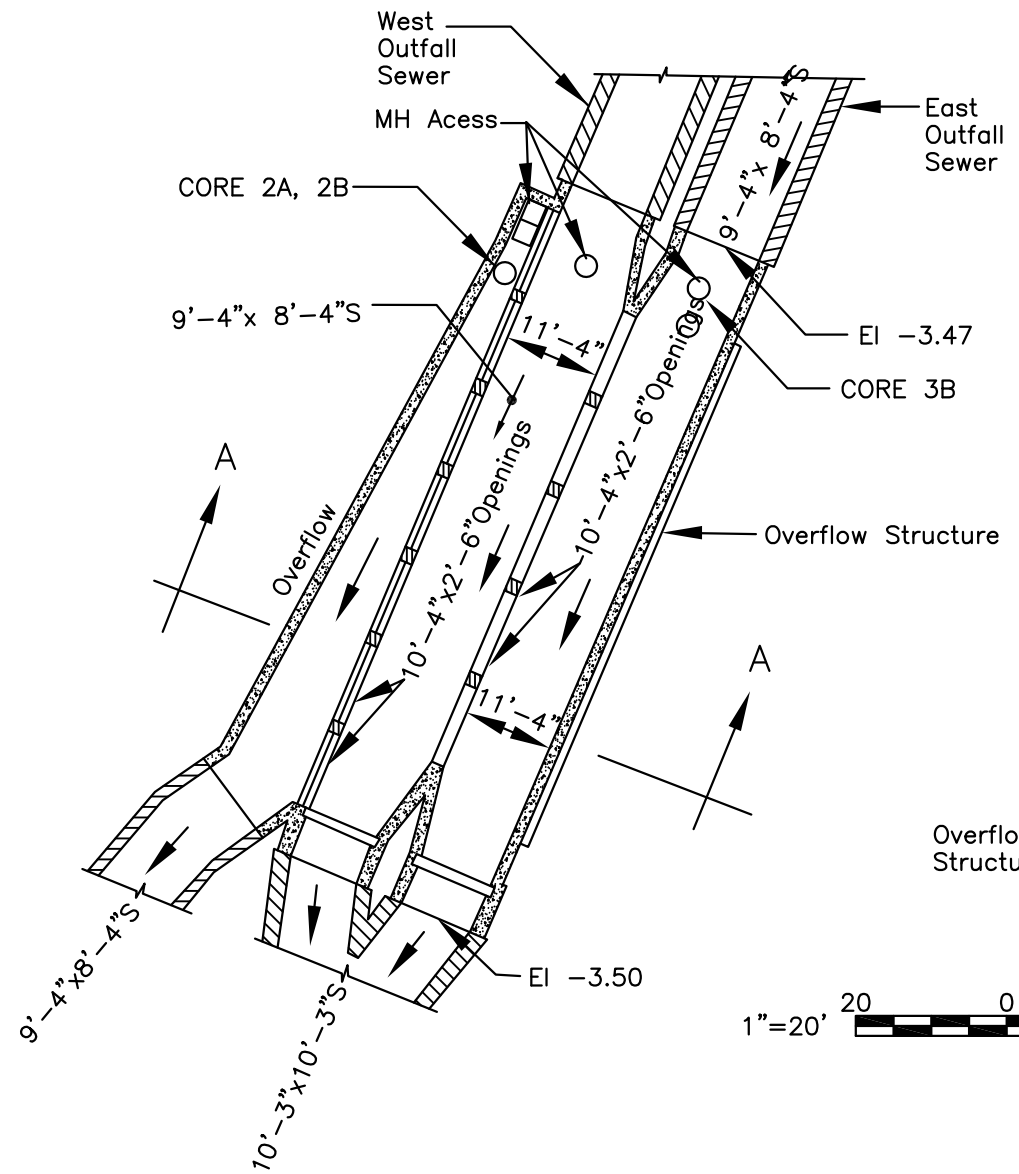
LOCATION PLAN
NOT TO SCALE

STRUCTURE NO. 4 OUTFALL SEWER EMERGENCY OVERFLOW, IN BOLLING AIR FORCE BASE, APPROXIMATELY 2500 FT. NORTH OF THE SOUTH LINE OF BASE AND 1500 FT. EAST OF THE POTOMAC RIVER BANK, ANGELL STREET AND VANDENBERG STREET

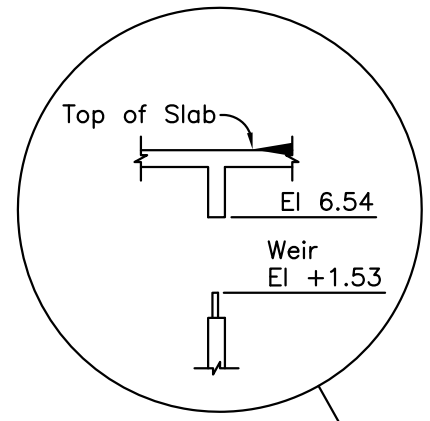
The Overflow Structure has a side Overflow Weir located in a Junction and a Overflow Structure both 9 ft.–4 in. by 8 ft.–4 in. basket–handle outfall sewers enter the junction and Overflow Structure and a 10 ft.–3 in. by 10 ft.–3 in. semi–elliptical sewer conveys the normal discharge to Blue Plains WasteWater Treatment Plant.

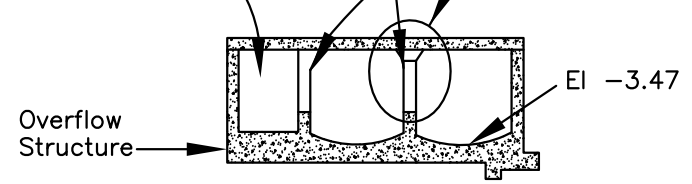
The Overflow Weir consists of seven sections totaling 72 ft.–4 in. in length. The crest can be raised by stop planks. Two stop planks are in place. The two Outfall Sewers are cross–connected by five openings in the Chamber, each 10 ft.–4 in. by 2 ft.–6 in. The 9 ft.– 4 in. by 8 ft.– 4 in. Overflow line discharges into the Potomac River.

There are level sensors which indicates overflow to the Outfall Overflow Monitoring System located at Blue Plains Pumping Station No. 2.



PLAN





SECTION A–A

1"=20' 20 0 20 40.

REVISED BY: EPMC–3B
REVISED DATE: JANUARY 2011
ASSOCIATED NPDES OUTFALL # 003

STRUCTURE NO. 4

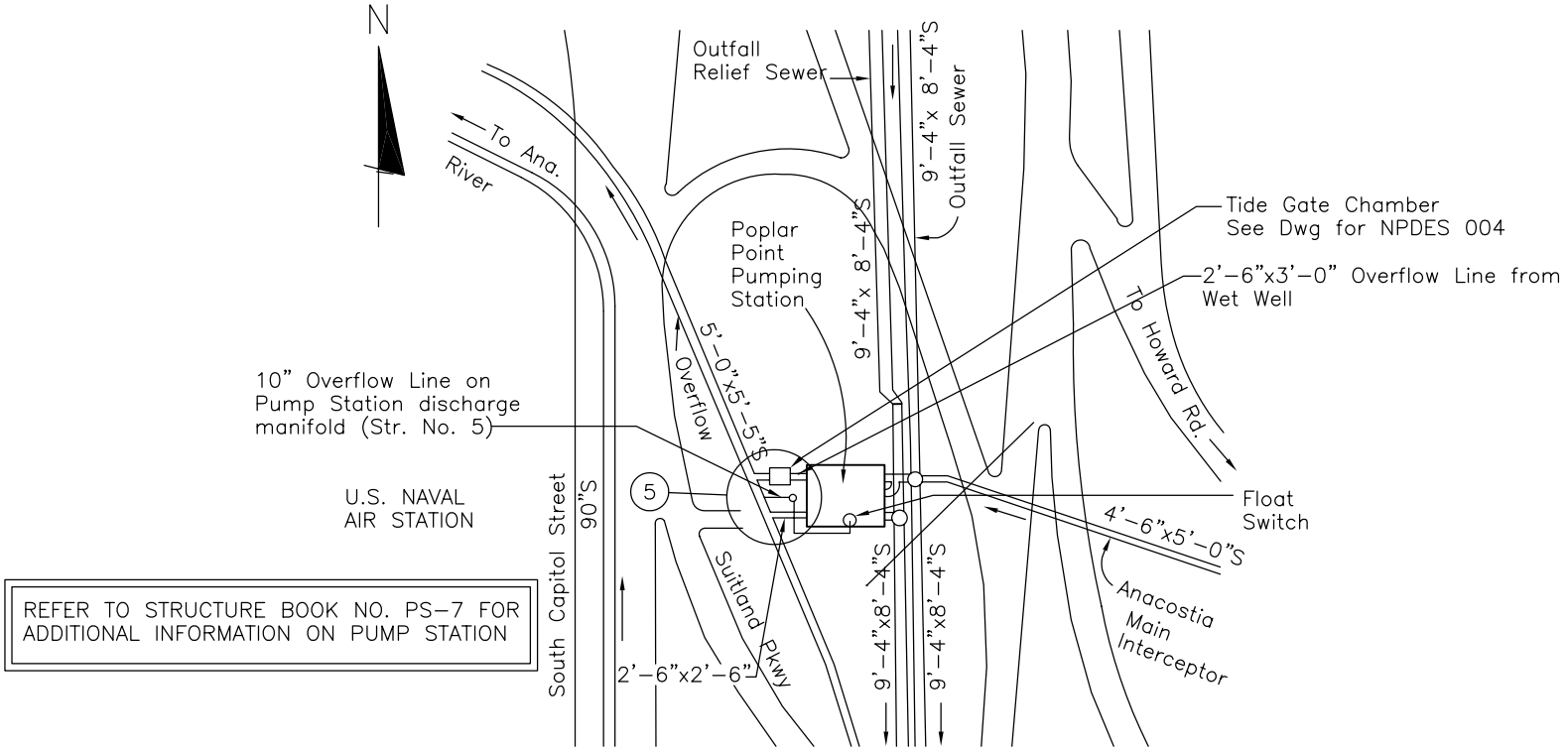
FILE: H:\1163\MAST PLAN\TECH MEMO\WASA STRUCTURE BOOK\CURRENT\STRUCTURE\STR-04.DWG

STRUCTURE NO.5, Emergency Overflow, at Poplar Point Pumping Station, S.E.

This Structure is not one of the conventional Overflow and Intercepting Structures but is an Emergency Overflow or Bypass for the Poplar Point Pumping Station. Normally the Pumping Station handles the discharge of the Anacostia Main Interceptor lifting it to the Outfall Sewers, where it is conveyed to Blue Plains Wastewater Treatment Plant. A Bypass is provided by which sewage can be pumped in an emergency into a 5–ft. by 5–ft. 5–in. Storm Sewer which discharges into the Anacostia River. Also, there is an Emergency Automactic Overflow, whereby the sewage will overflow to the same Storm Sewer when the Wet Well rises to EL. 2.00 as a result of some emergency Operation of the automatic overflow depends, of course, on the sewage level being higher than the tide at the time.

A 10–in. cast iron Overflow line has also been added leading from the Pumping Station Discharge Chamber. The Overflow line originates at the top of a manhole two feet below the elevation and leads to a catch basin connected to the Storm Sewer discharging to the Anacostia River.

There is a level sensor which indicates overflow to the outrail Overflow Monitoring System located at Blue Plains Pumping Station No. 2.



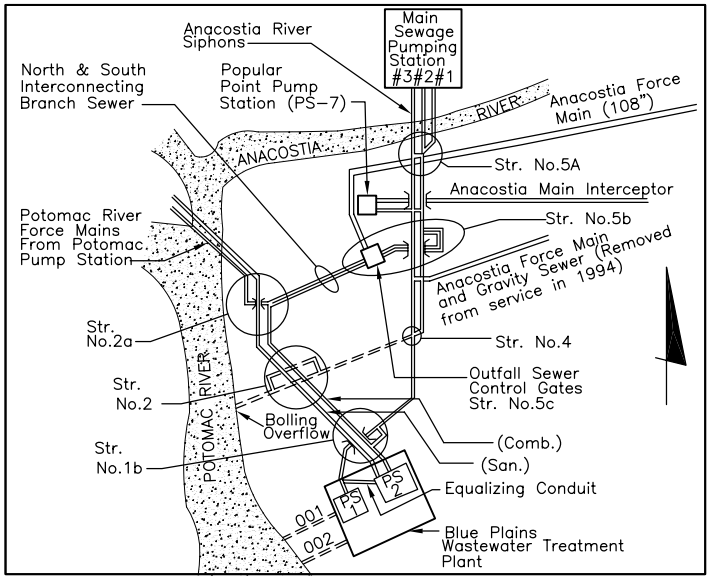
PLAN

1"=100' 100 0 100 200

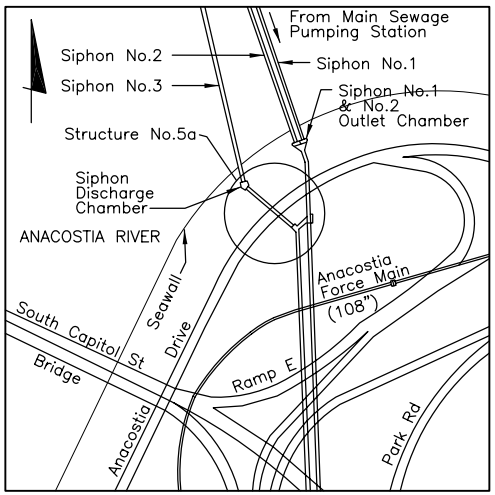
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 004

STRUCTURE NO.
5

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–05 1:1 04/22/04 13:19 GH–G



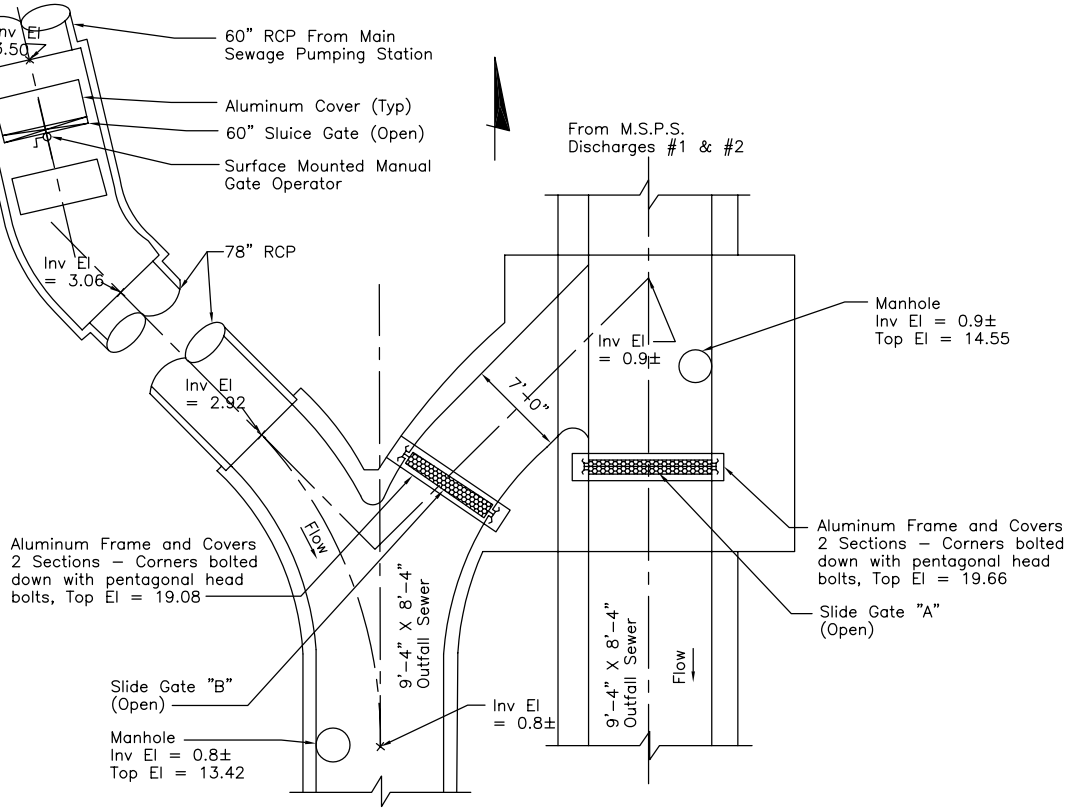
SCHEMATIC FLOW PLAN
NOT TO SCALE



LOCATION PLAN
NOT TO SCALE

STRUCTURE NO. 5a MAIN SEWAGE PUMPING STATION SIPHONS

Main Sewage Pumping Station pumps across the Anacostia River via three 60-inch inverted siphons. At the downstream Siphon Chamber for Siphons No. 1 and No. 2 there are no provisions for flow control. There are two Slide Gates at the confluence with Siphon No. 3, and the start of the Twin Outfall Sewers.



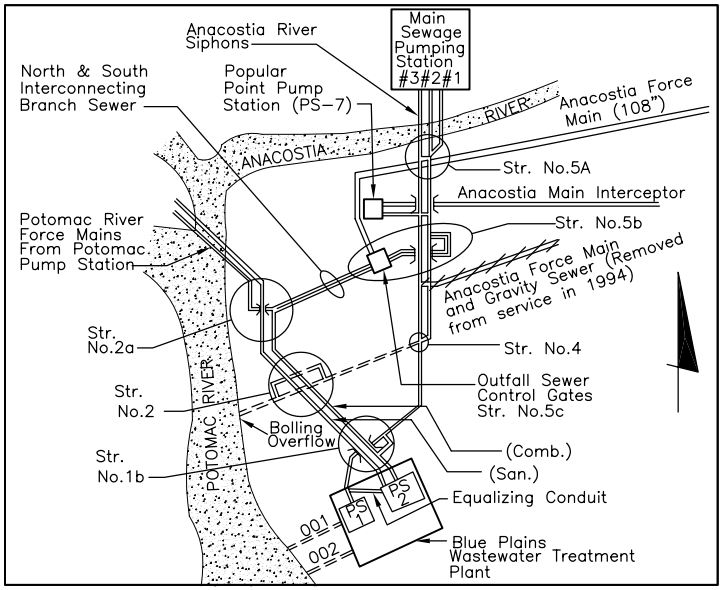
PLAN VIEW

MAIN SEWAGE PUMPING STATION SIPHONS
NOT TO SCALE

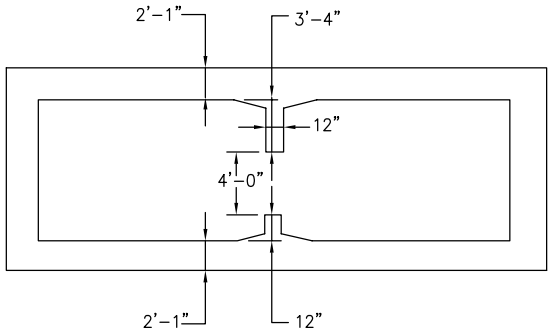
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
5a

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-05A 1:1 04/22/04 13:21 GH-G



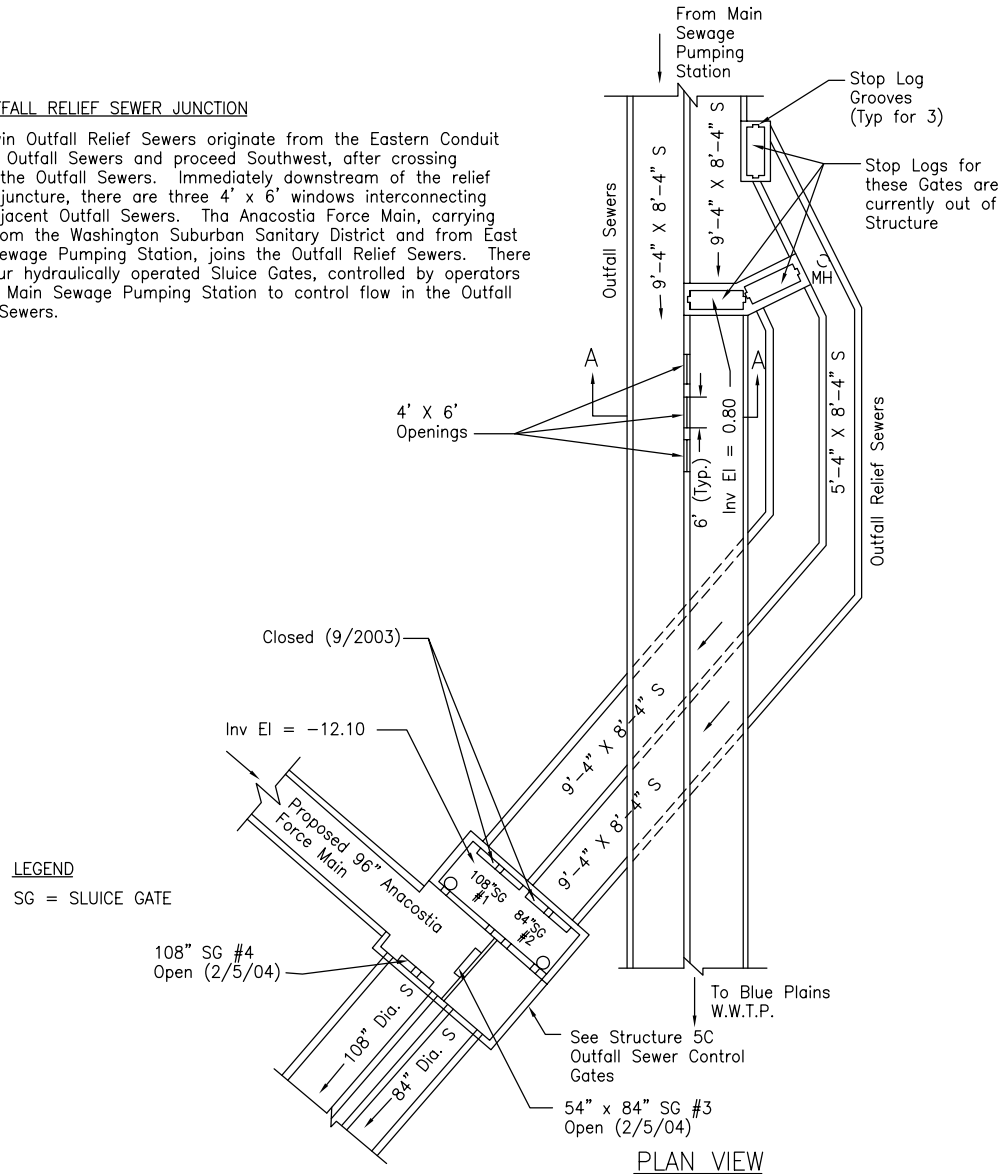
SCHEMATIC FLOW PLAN
NOT TO SCALE



SECTION A-A
NOT TO SCALE

5b OUTFALL RELIEF SEWER JUNCTION

The Twin Outfall Relief Sewers originate from the Eastern Conduit of the Outfall Sewers and proceed Southwest, after crossing under the Outfall Sewers. Immediately downstream of the relief sewer juncture, there are three 4' x 6' windows interconnecting the adjacent Outfall Sewers. Tha Anacostia Force Main, carrying flow from the Washington Suburban Sanitary District and from East Side Sewage Pumping Station, joins the Outfall Relief Sewers. There are four hydraulically operated Sluice Gates, controlled by operators at the Main Sewage Pumping Station to control flow in the Outfall Relief Sewers.



PLAN VIEW

OUTFALL RELIEF JUNCTION
NOT TO SCALE

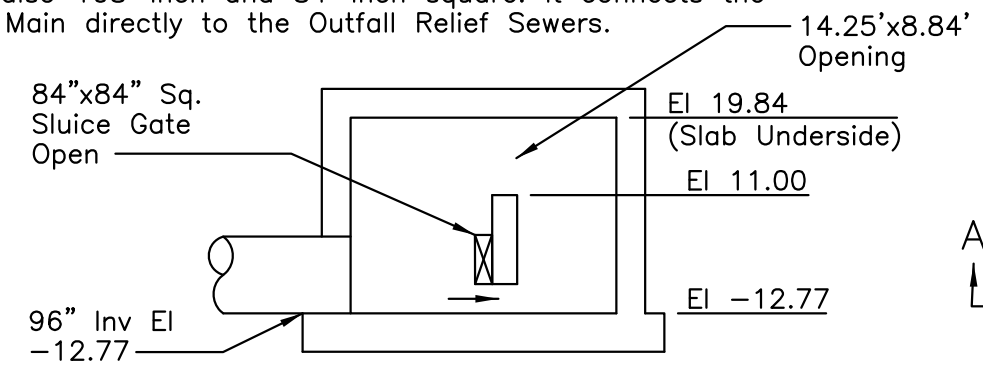
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
5b

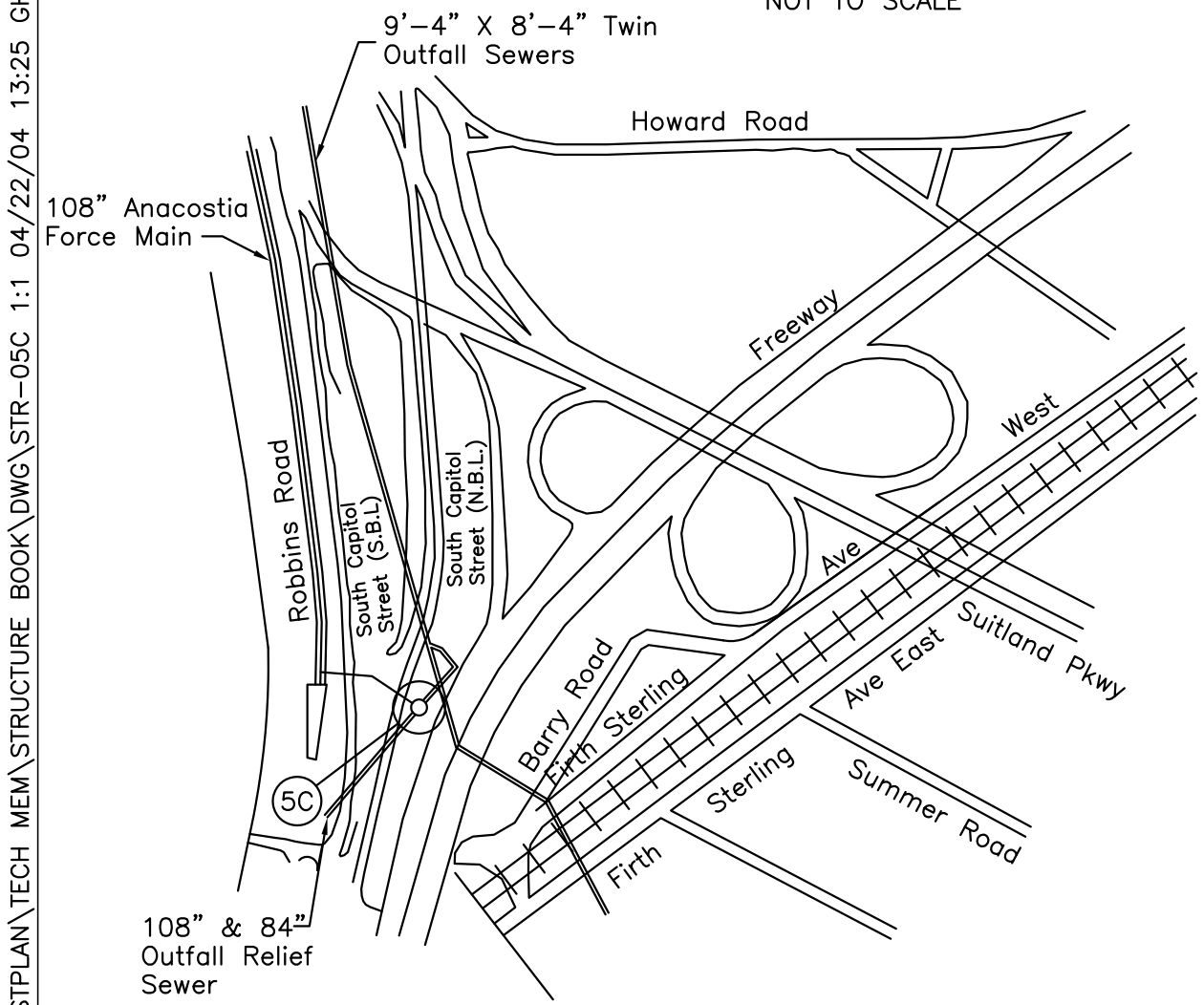
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-05B 1:1 04/22/04 13:24 GH-G

STRUCTURE NUMBER 5C – OUTFALL SEWER CONTROL GATES

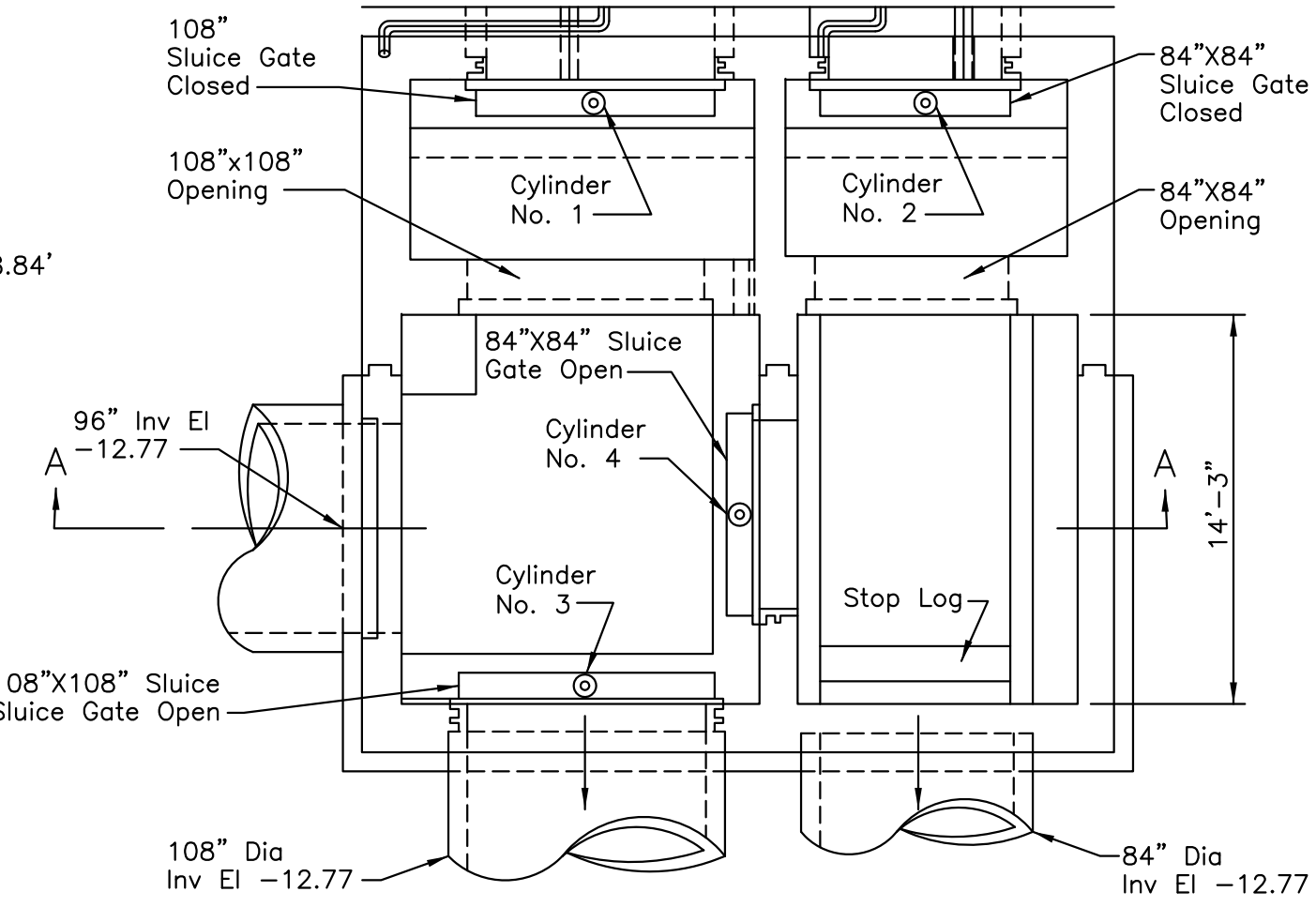
This structure is constructed in two separate parts. The first part which has been operational since 1989 includes two Hydraulic Cylinder operated Sluice Gates which are alternately operated from the Main Sewage Pumping Station and which connect the Outfall Sewers to the Outfall Relief Sewers which flow to the Blue Plains Wastewater Treatment Plant. The second part which has been operational since 1994 has two additional Hydraulic Cylinder operated Sluice Gates also 108–inch and 84–inch square. It connects the WSSC Anacostia Force Main directly to the Outfall Relief Sewers.



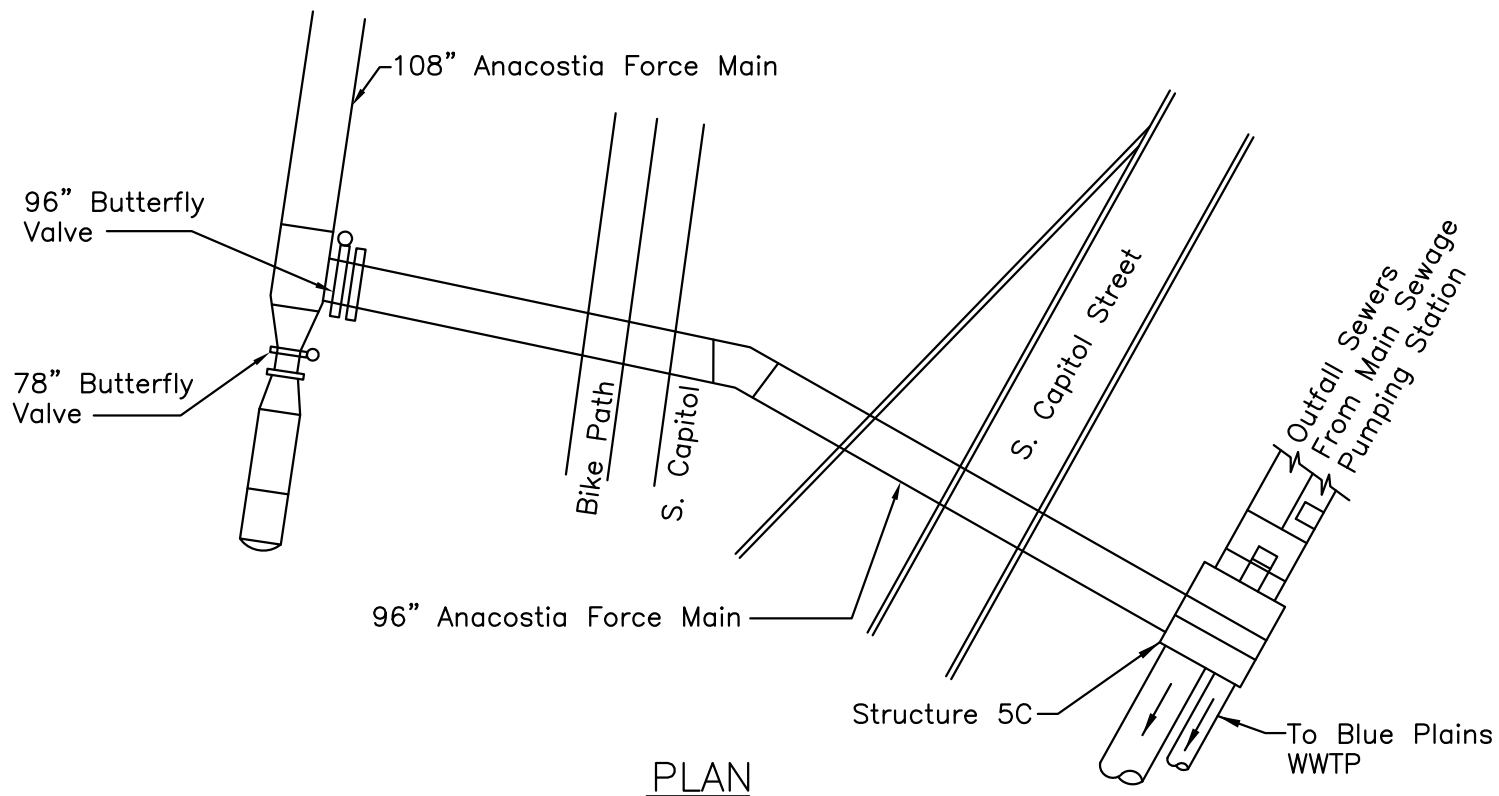
SECTION A–A
NOT TO SCALE



LOCATION PLAN
NOT TO SCALE



PLAN GATE CHAMBER
NOT TO SCALE



PLAN
NOT TO SCALE

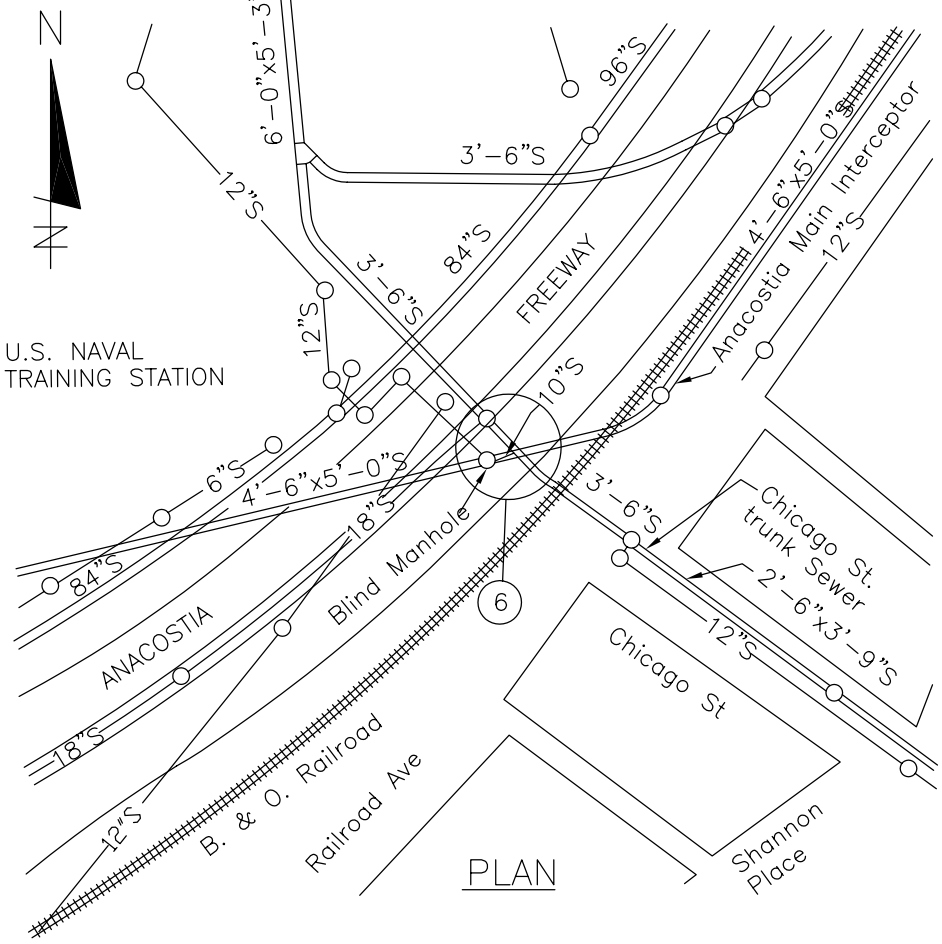
REVISED BY: EPMC–3B
REVISED DATE: JANUARY 2011
ASSOCIATED NPDES OUTFALL # N/A

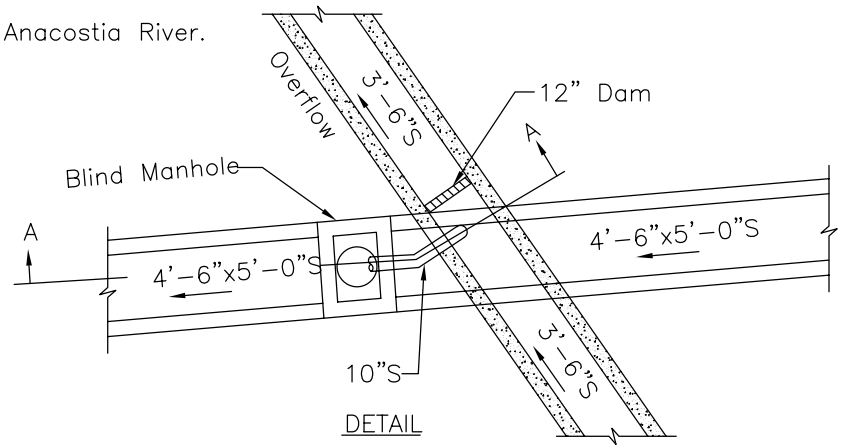
STRUCTURE NO.
5c

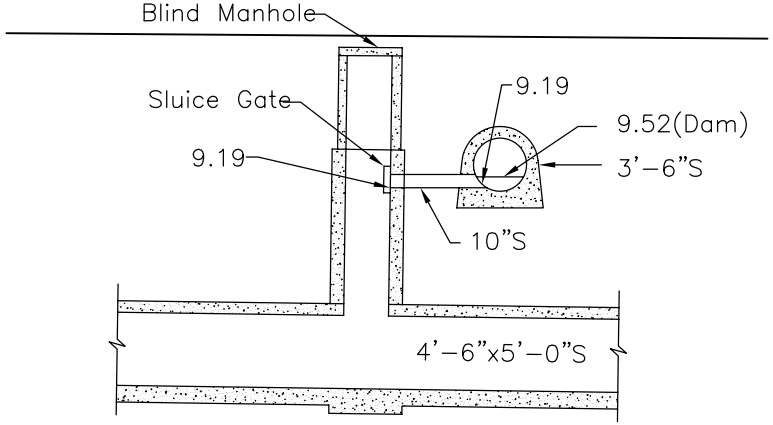
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-05C 1:1 04/22/04 13:25 GH-G

STRUCTURE NO 6. Chicago Street Trunk, Chicago Street and Railroad Avenue, S.E. This structure has a sump–type regulator; the Storm Overflow is formed by a masonry dam. A 3–ft. 6–in. Combined Sewer enters the Overflow Structure and a 10–inch intercepting connection conveys the Dry–Weather Flow into the Anacostia Main Interceptor. There is a Sluice Gate at the outlet end of the 10–in. intercepting connection.

The 3–ft. 6–in. Overflow line discharges into the Anacostia River.







100 0 100 200
1"=100'

10 0 10 20
1" = 10'

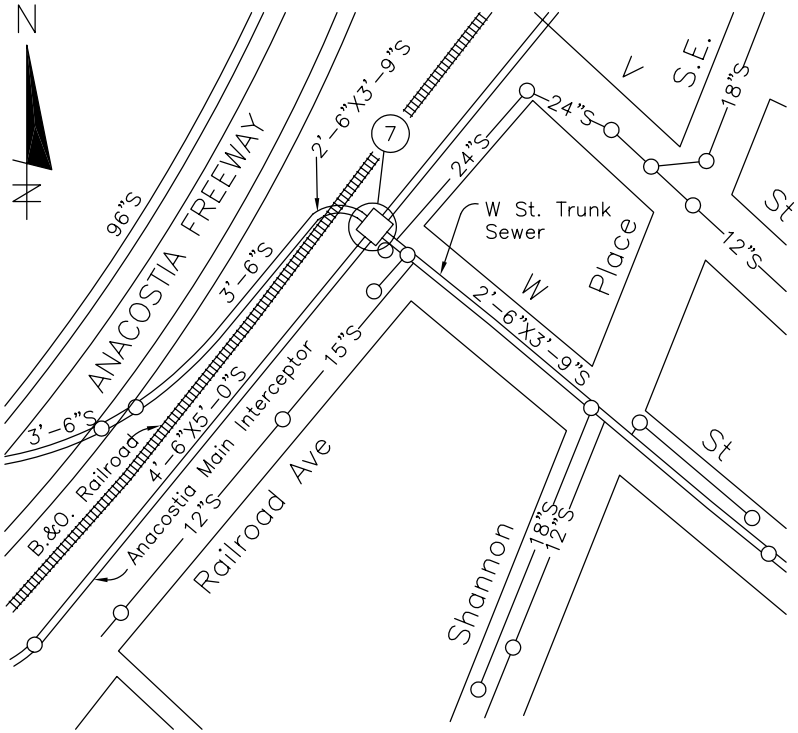
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 005

STRUCTURE NO.
6

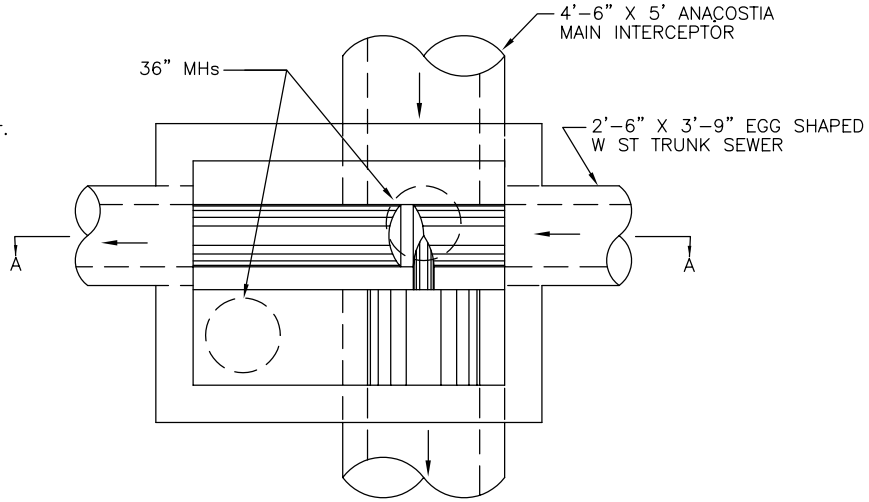
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-06 1:1 04/22/04 13:28 GH-G

STRUCTURE NO. 7, W Street Trunk Sewer, W Street and Railroad Avenue, S.E.

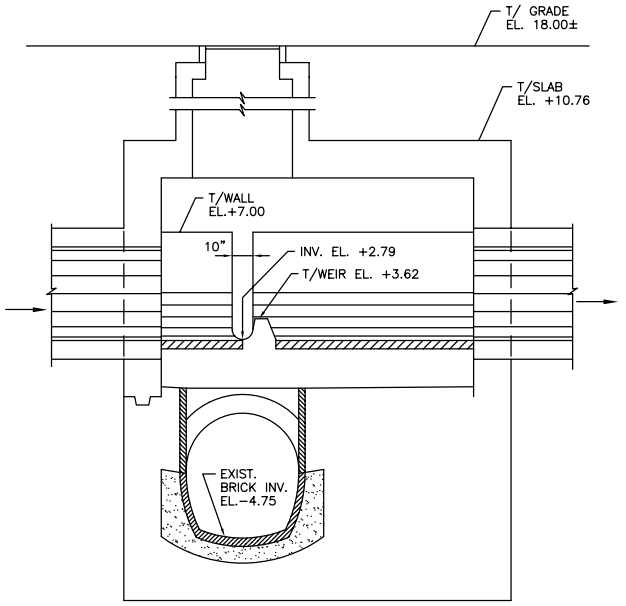
A 2–ft. 6–in. by 3–ft. 9–in. Combined Sewer enters the Structure and a 10–inch slot conveys the Dry–Weather Flow into the Anacostia Main Interceptor. The 2–ft. 6–in. by 3–ft. 9–in. Overflow line discharges into the Anacostia River.



PLAN
SCALE:1"=100'



PLAN

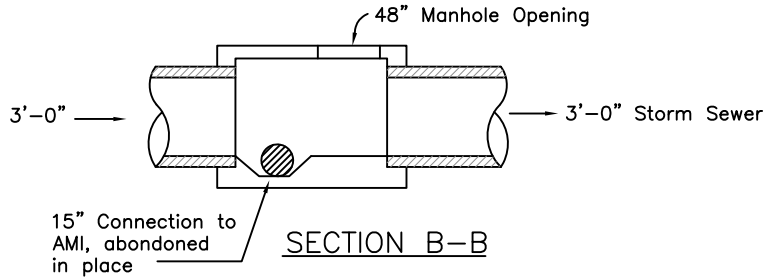


SECTION A

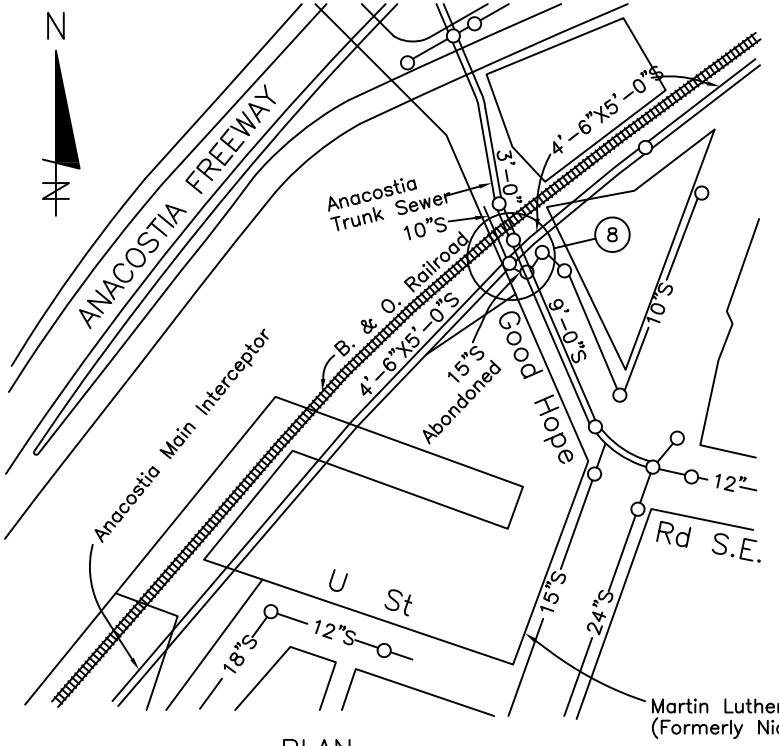
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 005

STRUCTURE NO. 7

STRUCTURE NO. 8. Anacostia Trunk Sewer. Good Hope Road West of Martin Luther King Blvd. (formerly Nichols Ave.)
This structure had a masonry dam which directs normal Dry Weather Flows into the Anacostia Main Interceptor (AMI) with Storm Flows overflowing into the Anacostia River Via the 3'–0" Overflow Sewer. Sewers separated and dry weather flow diversion dams are removed.

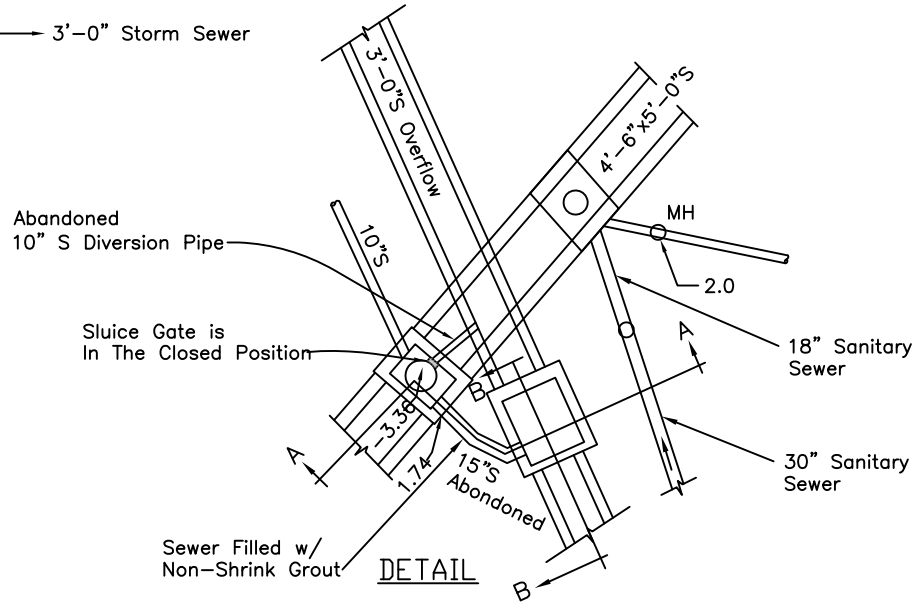


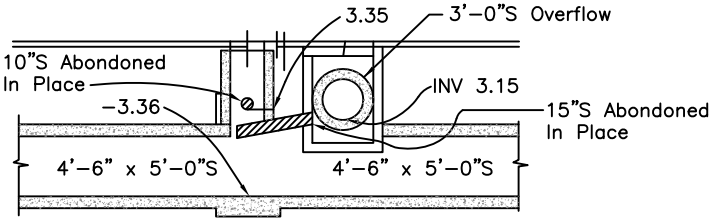
SECTION B–B



PLAN

1" = 100' 100 0 100 200





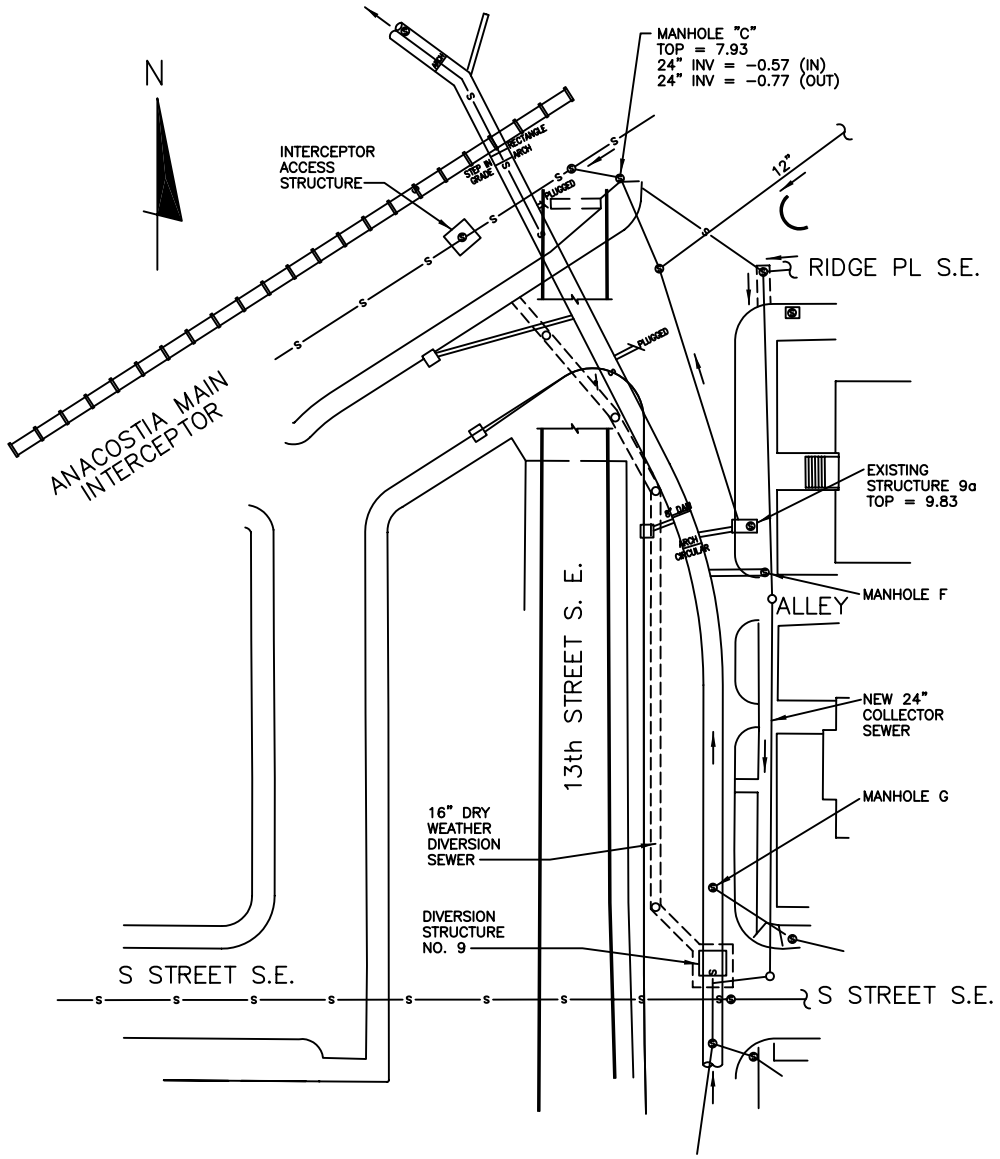
SECTION A–A

1" = 10' 10 0 10 20

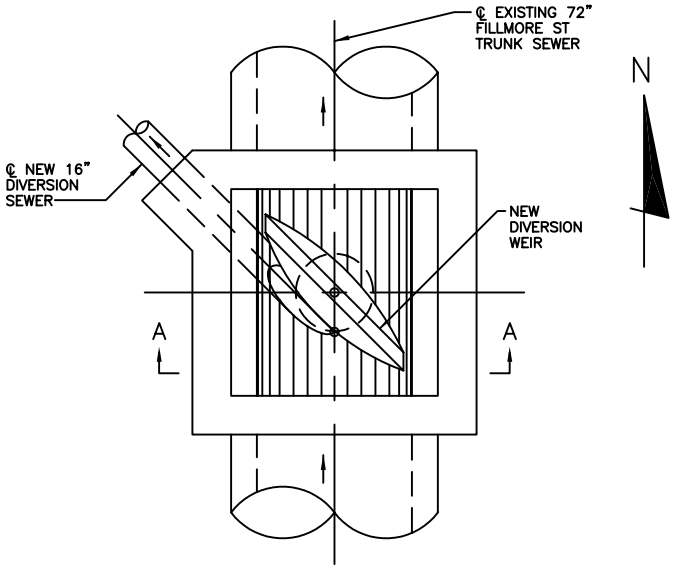
REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: FEBRUARY 2012
ASSOCIATED NPDES OUTFALL # 006

THIS OVERFLOW HAS BEEN ELIMINATED BASED ON UPSTREAM SEPARATION

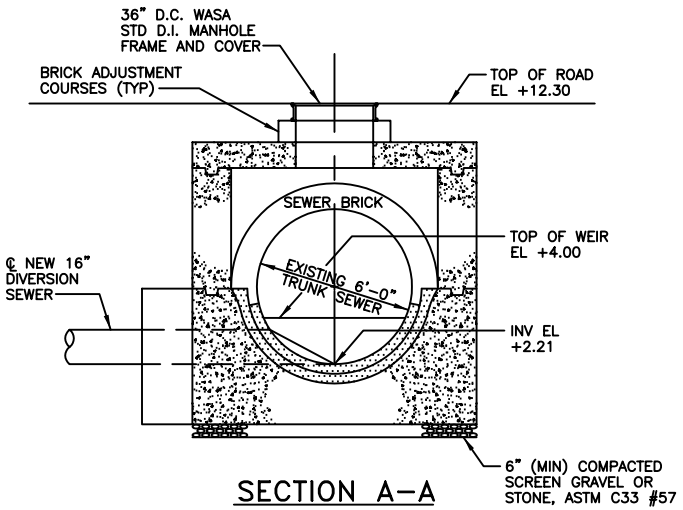
STRUCTURE NO. 8



SITE PLAN
NOT TO SCALE



SECTIONAL PLAN AT EL 4.05
NOT TO SCALE



SECTION A-A
NOT TO SCALE

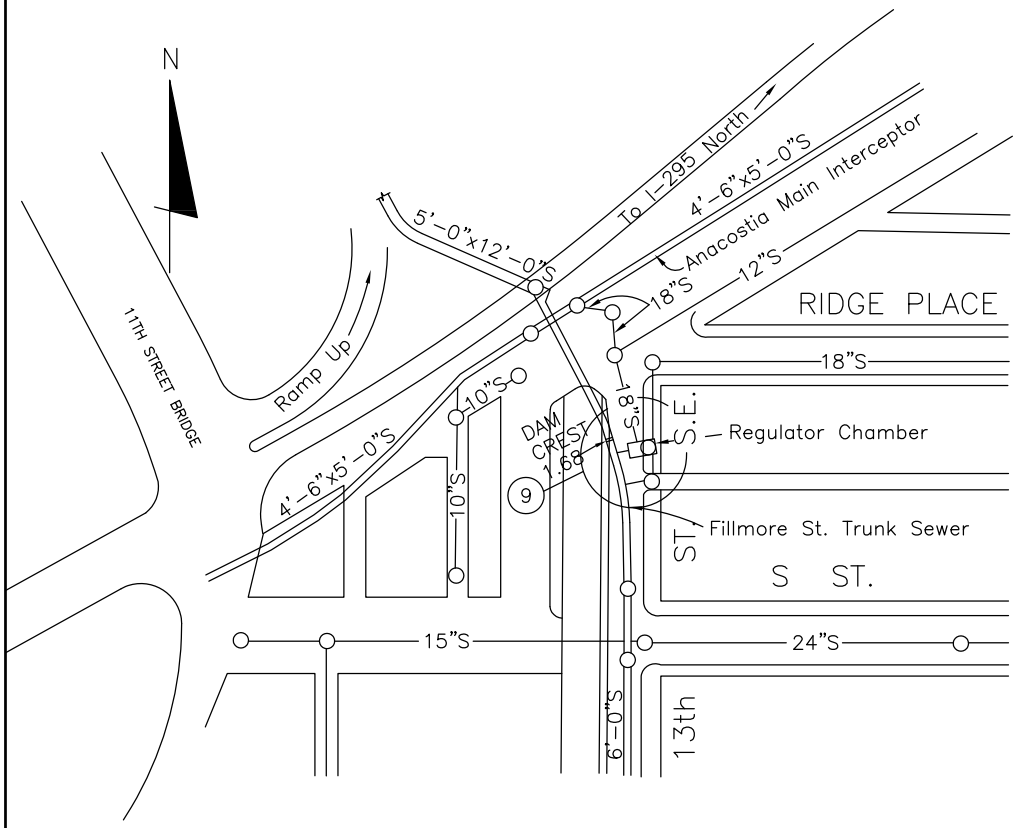
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
9

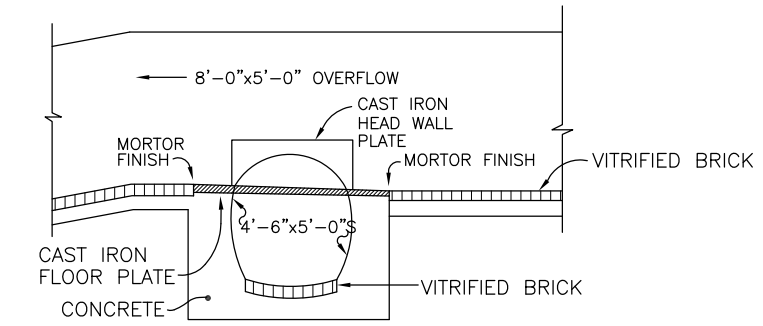
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-09 1:1 04/22/04 11:24 GH-G

STRUCTURE NO. 9. Fillmore Trunk Sewer, 13th Street and Ridge Place, S.E.
A Dam in the Fillmore Street Trunk Sewer diverts normal Dry Weather Flows through an 18" Sewer into the Anacostia Main Interceptor. Storm Water flows overflow the dam into the Anacostia River. This structure was formerly a float type regulator with a float mechanism removed. Now it is a sump type regulator.

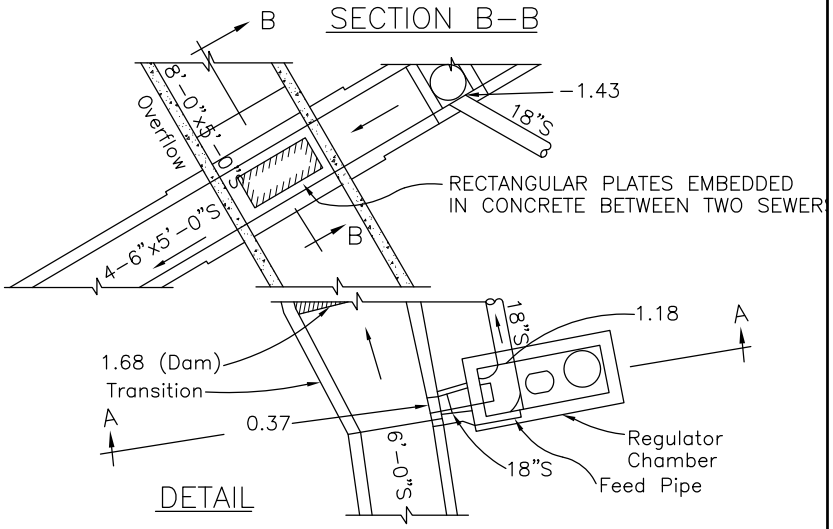
Note:
Structure No. 9 was placed in operation in 2003 to replace this structure. Structure No. 9a remains in service until satisfactory operation is proven at Structure No. 9.



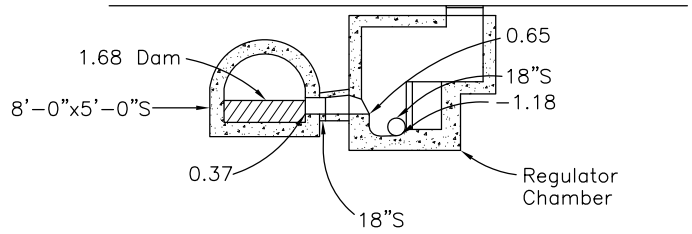
PLAN
NOT TO SCALE



SECTION B-B



DETAIL



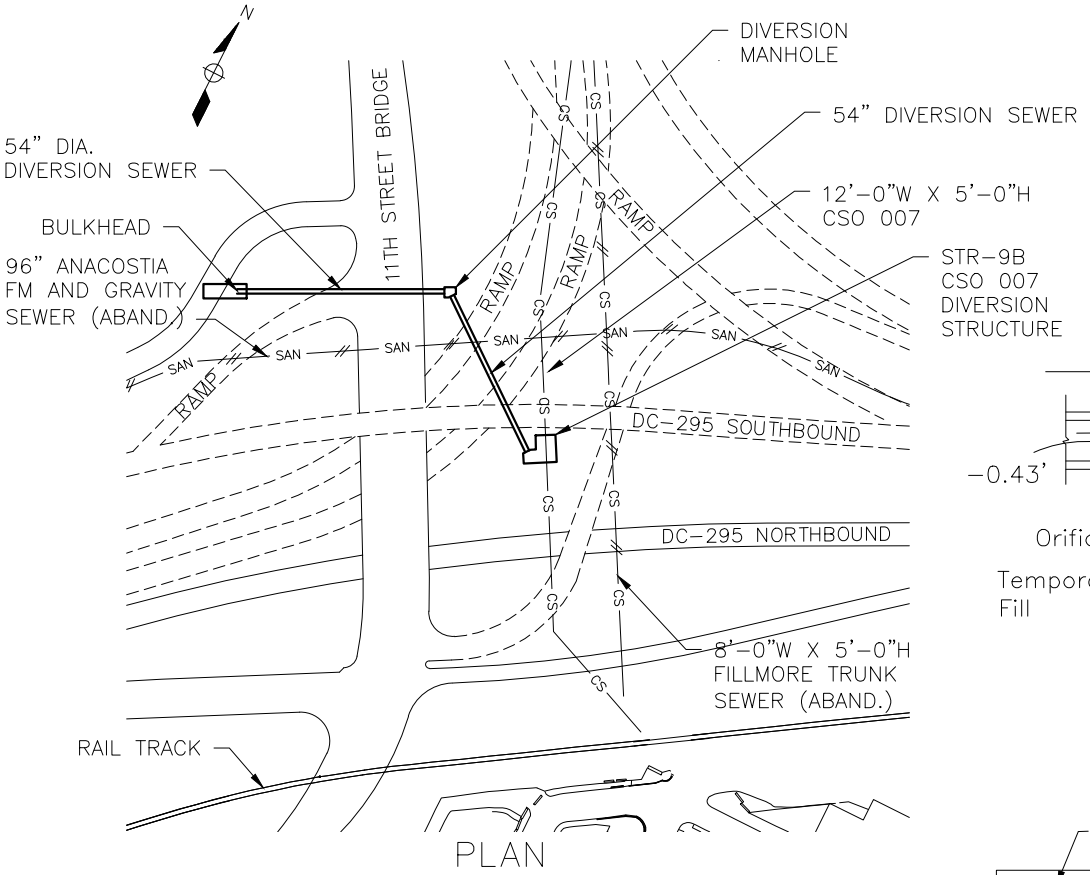
SECTION A-A

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: FEBRUARY 2013
ASSOCIATED NPDES OUTFALL # 007

STRUCTURE NO.
9a

STRUCTURE NO. 9. Fillmore Trunk Sewer, 13th Street and Ridge Place, S.E.
A Diversion Chamber on the Fillmore Street Trunk Sewer diverts up to 44 mgd of flows through a 54" Diversion Sewer. Flows exceeding 44 mgd will pass through rotating bar rack and discharge into the Anacostia River.

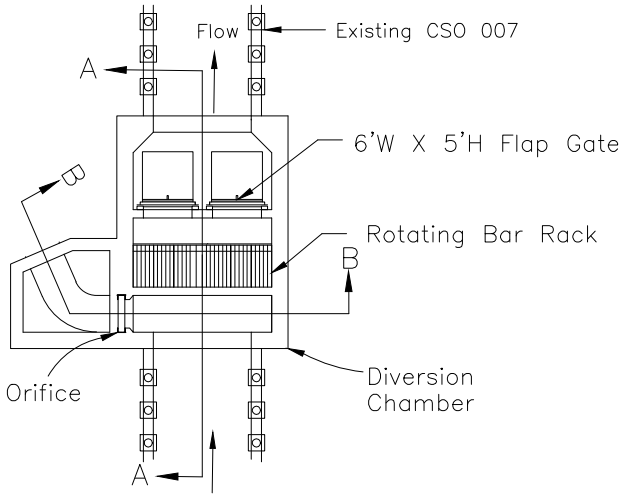
Note:
Structure No. 9b was constructed in advance of the Anacostia River Tunnel. It will be placed in operation when the tunnel is completed.



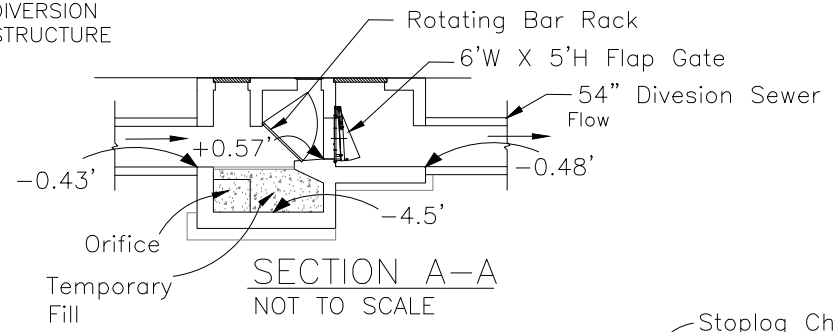
PLAN

200 0 200 400 FT

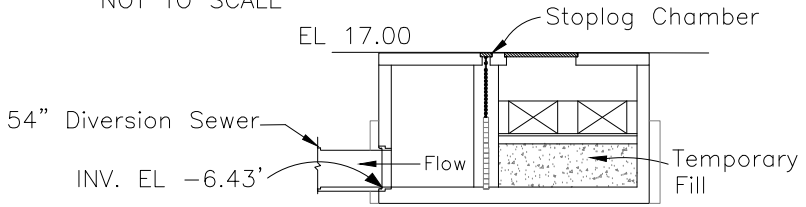
SCALE: 1"=200'



PLAN @ EL. 5.00
NOT TO SCALE



SECTION A-A
NOT TO SCALE



SECTION B-B
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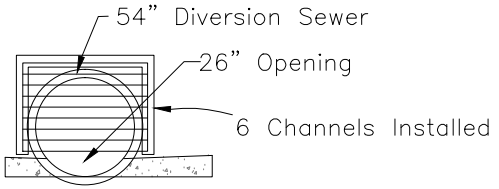
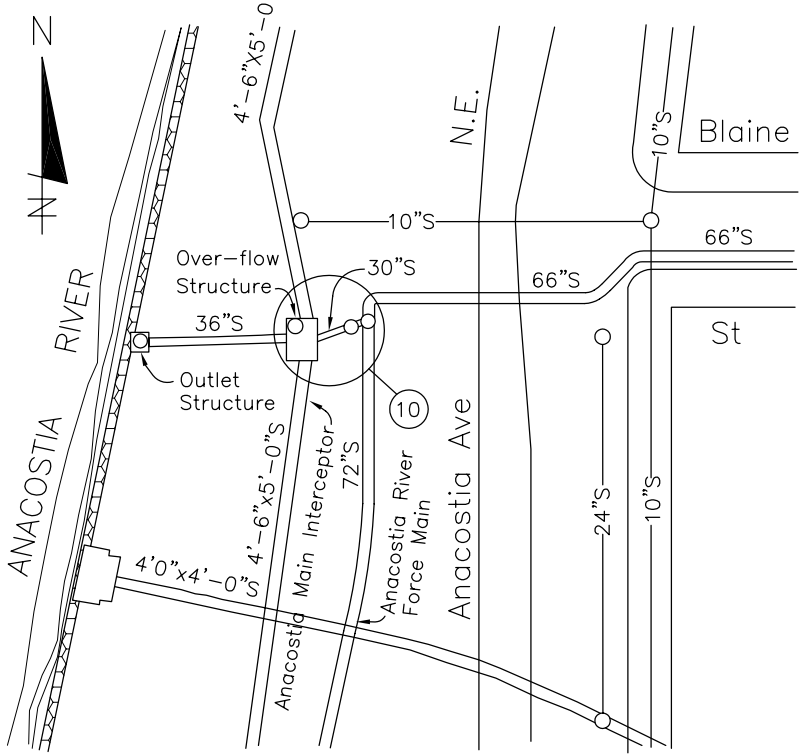


REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: FEBRUARY 2013
ASSOCIATED NPDES OUTFALL # 007

STRUCTURE NO.
9b

Structure No. 10, Anacostia Main Interceptor, Anacostia Avenue West of Blaine Street, N.E. This is a Side–overflow Structure, the Overflow is formed by a masonary dam. The Anacostia Main Interceptor passes through the structure, and the Overflow occurs only when the sewer surcharges.

The 36–inch Overflow Line discharges into Anacostia River. There is an Outlet Structure and Tide Gate at the Outlet.



PLAN

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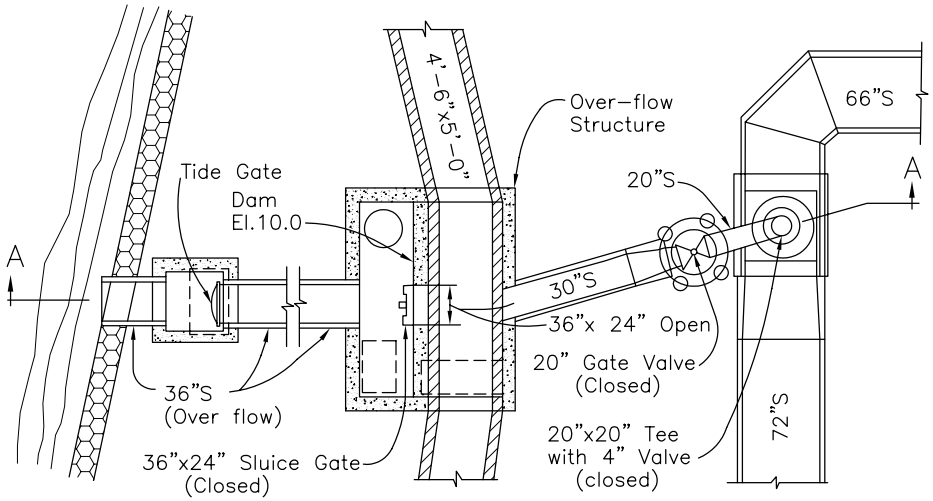
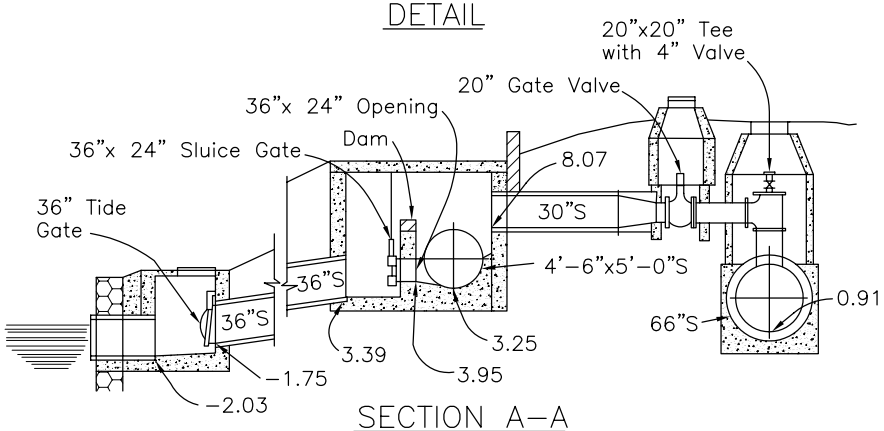


DETAIL



SECTION A–A

1" =10' 10 0 10 20

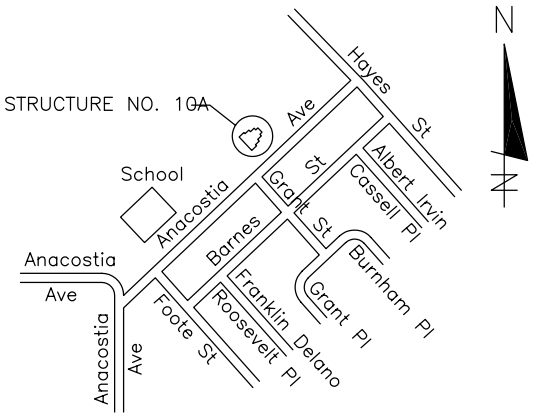
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 008

STRUCTURE NO. 10

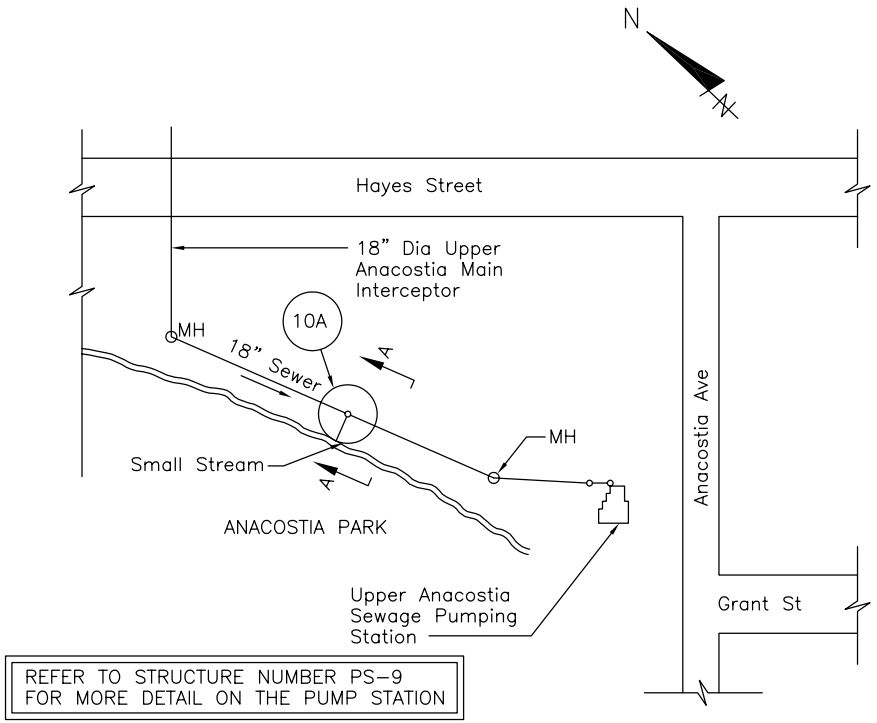
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-10 1:1 04/22/04 13:44 GH-G

STRUCTURE 10A – HAYES STREET AND ANACOSTIA AVE. N.E.

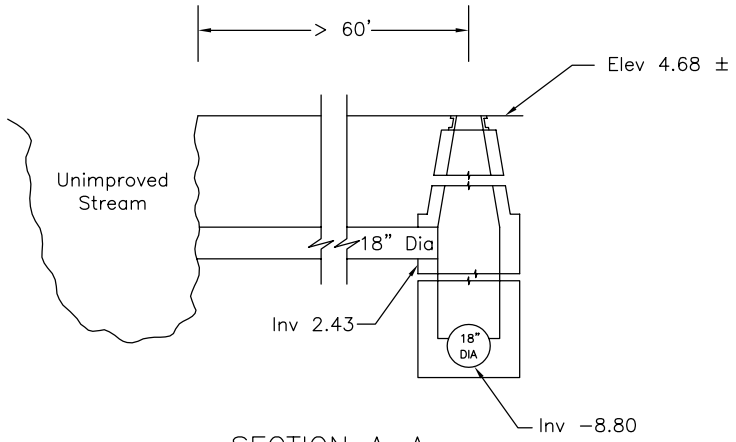
STRUCTURE 10A IS AN 18 INCH OVERFLOW ON THE 18 INCH UPPER ANACOSTIA MAIN INTERCEPTOR INTO A SHALLOW UNIMPROVED STREAM. THE OVERFLOW IS AN EMERGENCY RELIEF FOR THE UPPER ANACOSTIA SEWAGE PUMPING STATION. REFER TO STRUCTURE BOOK. NUMBER PS–9 FOR MORE DETAIL ON THE PUMP STATION.



LOCATION PLAN
NOT TO SCALE



DETAILED LOCATION PLAN
NOT TO SCALE



SECTION A–A
STRUCTURE 10A
NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 061

STRUCTURE NO.
10a

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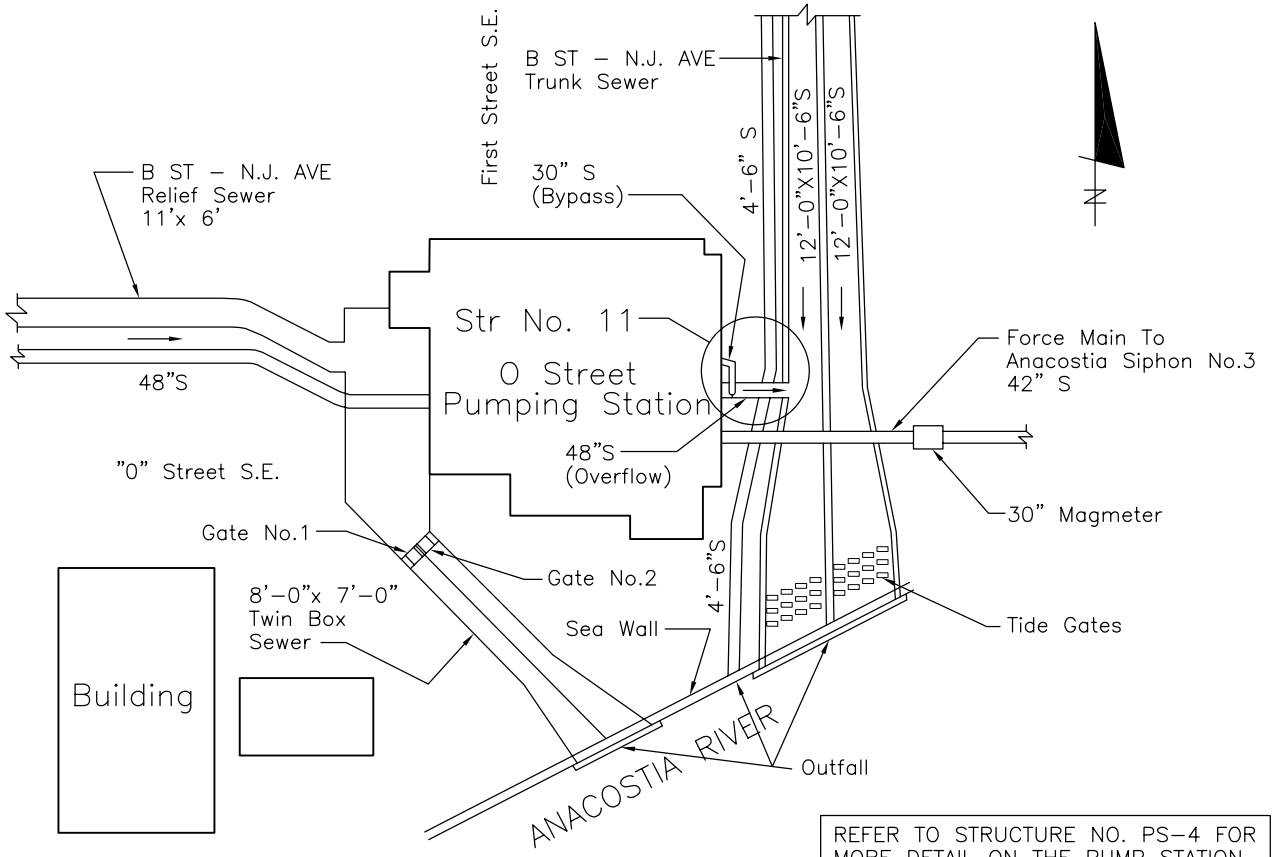
STRUCTURE NO.11 "O" STREET SEWAGE PUMPING STATION S.E.

This Pumping Station has an Emergency Overflow and a Bypass. Normally the Pumping Station handles the sewage by pumping it through a 42–inch line to the 60–inch Siphon, then to the Outfall Sewer which conveys it to the Blue Plains WasteWater Treatment Plant. The 30–inch Bypass is provided for Emergency Pumping of Sewege Flow into the 48–inch Overflow Line, which discharges into the Anacostia River. Also, there is an Emergency Automatic Overflow through the 48–inch line when sewage levels reach an elevation of –6.00 feet. Refer to Structure No. PS–4 for more detail on the Pump Station. In addition to these two Overflows, the "Storm" side of the Pumping Station carries Combined System Overflows originating at Structure No. 15, 15a, 15b and 15c.



REFER TO STRUCTURE NO. PS–4 FOR MORE DETAIL ON THE PUMP STATION.

LOCATION PLAN

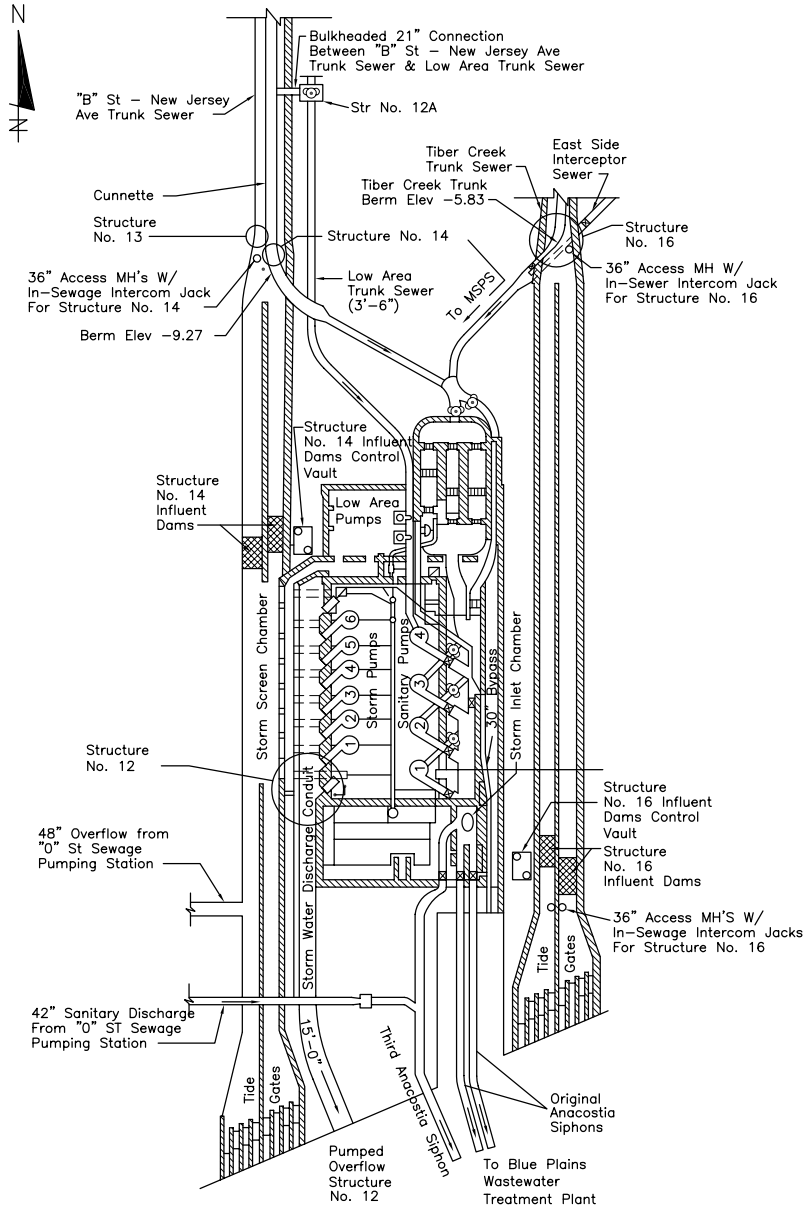
"O" STREET SEWAGE PUMPING STATION

NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 011a

STRUCTURE NO. 11

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–11 1:1 04/22/04 13:49 GH–G

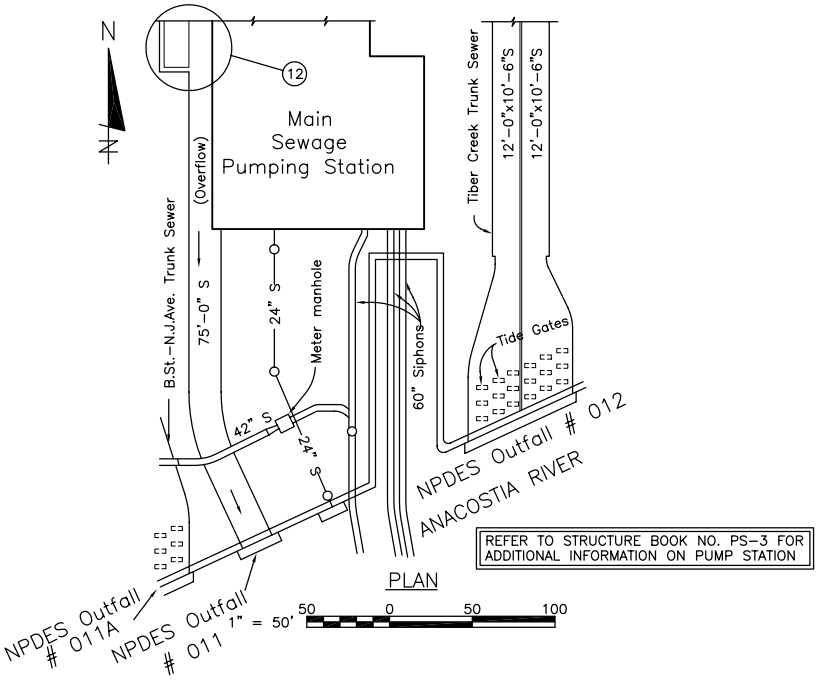


MAIN SEWAGE PUMPING STATION

NOT TO SCALE

STRUCTURE NO. 12, Storm Pump Discharge at the Main Sewage Pumping Station, S.E. This is a 15–ft span overflow conduit, approxmately 400 ft. long, which conducts the discharge of the storm–water pumps in the Main Sewage Pumping Station to the Anacostia River.

The pumps are operated when the levels in the combined wet well (shared with the sanitary pumps) are elevated due to storms.



REFER TO STRUCTURE BOOK NO. PS–3 FOR ADDITIONAL INFORMATION ON PUMP STATION

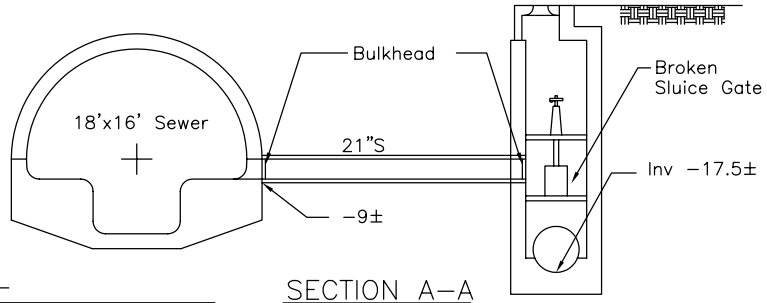
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 011

STRUCTURE NO. 12

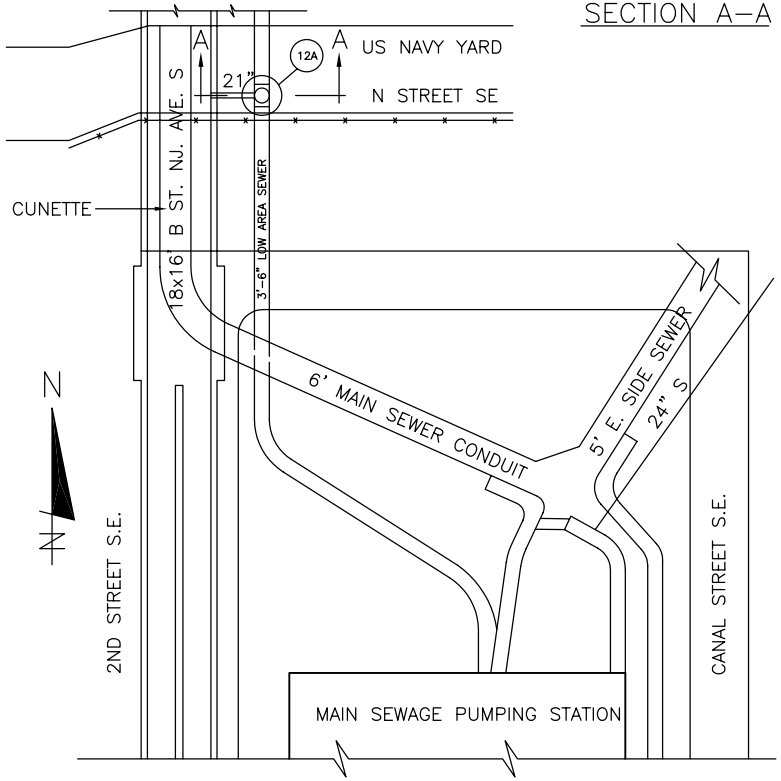
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–12 1:1 04/22/04 14:13 GH–G

STRUCTURE 12A – N STREET BETWEEN 2ND & CANAL STREETS S.E.

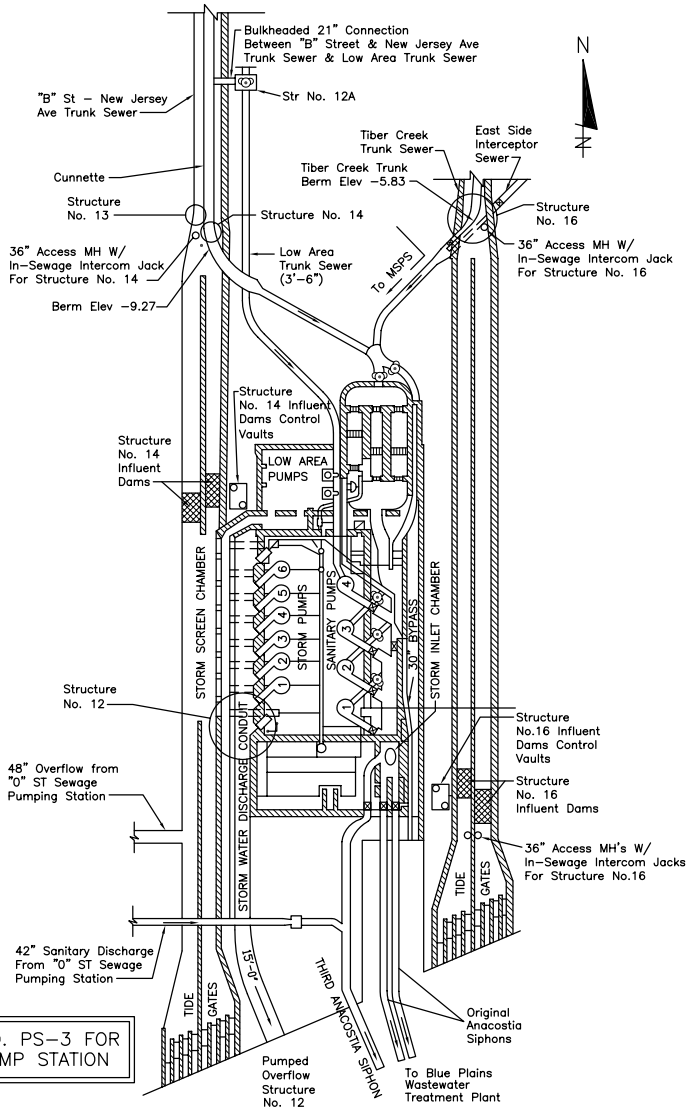
This Structure contains a broken Sluice Gate and Hand Operator as of 5/7/92. The Gate is blocked partially open and the 21–inch connection from the B Street and New Jersey Avenue Sewer is bulkheaded. The original intent was to drain the B Street and New Jersey Avenue Sewer into the low area sewer to the Main Sewage Pumping Station.



SECTION A–A



LOCATION PLAN
NOT TO SCALE



REFER TO STRUCTURE BOOK NO. PS–3 FOR ADDITIONAL INFORMATION ON PUMP STATION

MAIN SEWAGE PUMPING STATION
NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
12a

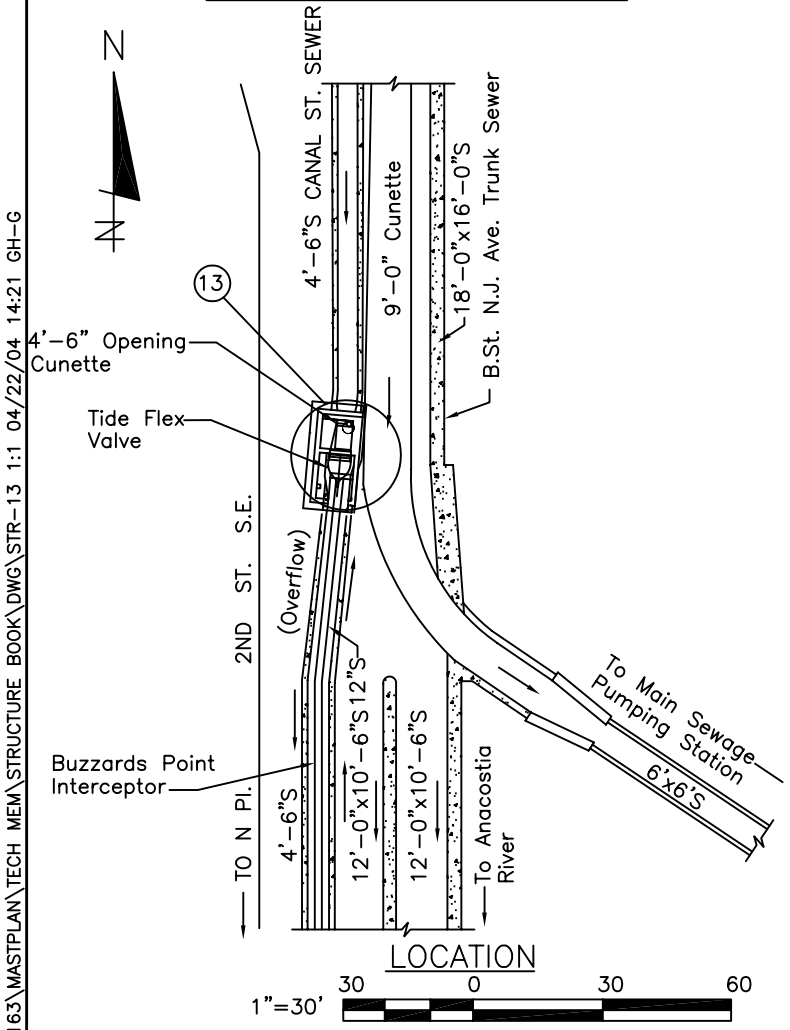
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–12A 1:1 04/22/04 14:11 GH–G

STRUCTURE NO. 13, 2nd Street about 300 ft. North of N Place, S.E.

This structure has a slot–type regulator, the Storm Overflow is formed by a continuation of the 4–ft. 6–in. Canal Street Sewer. The 4–ft. 6–in. Combined Sewer enters the Overflow Structure, where there is a slot about 6–in. by 3ft. 6–in. at the top of a vertical 10–inch pipe, through which the Dry–Weather Flow falls to the 12–inch Buzzards Point Interceptor in which it is conveyed to the B Street–New Jersey Avenue Trunk Sewer.

The 40ft. 6–in. Overflow line discharges to the Anacostia River. There is an Outlet Structure and Tide Gate at the Outlet.

REFER TO STRUCTURE BOOK NO. PS–3 FOR ADDITIONAL INFORMATION ON PUMP STATION



LOCATION

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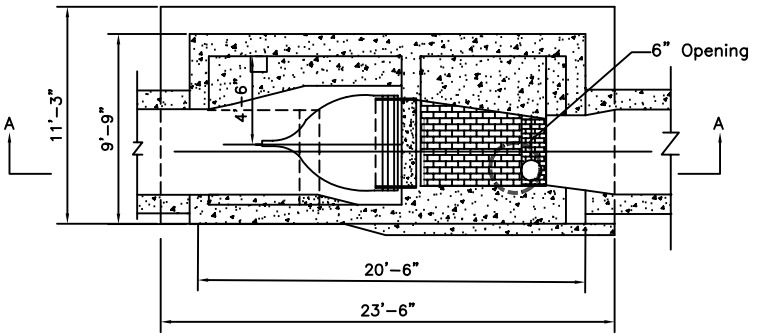
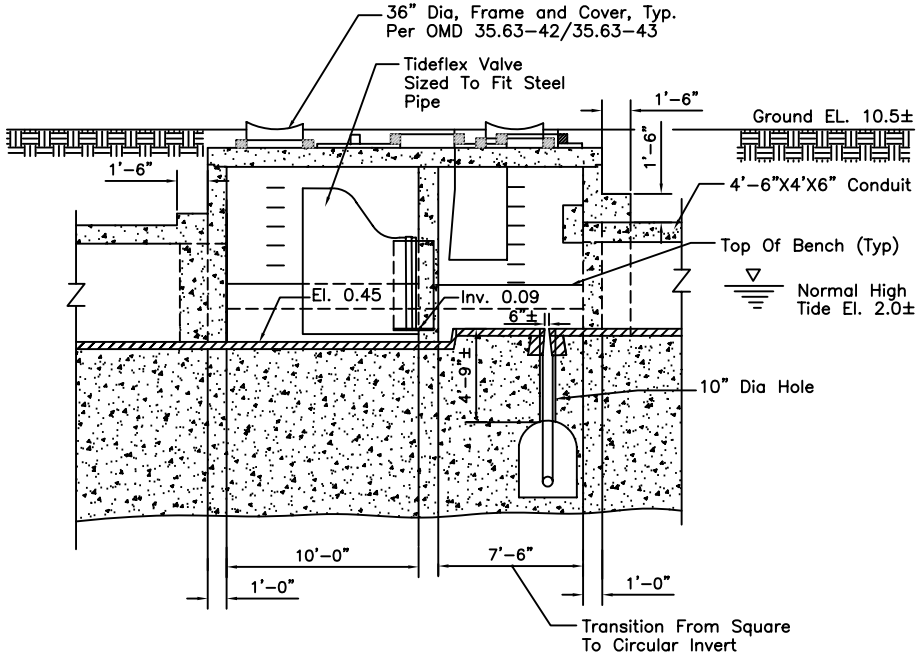


PLAN
N.T.S.

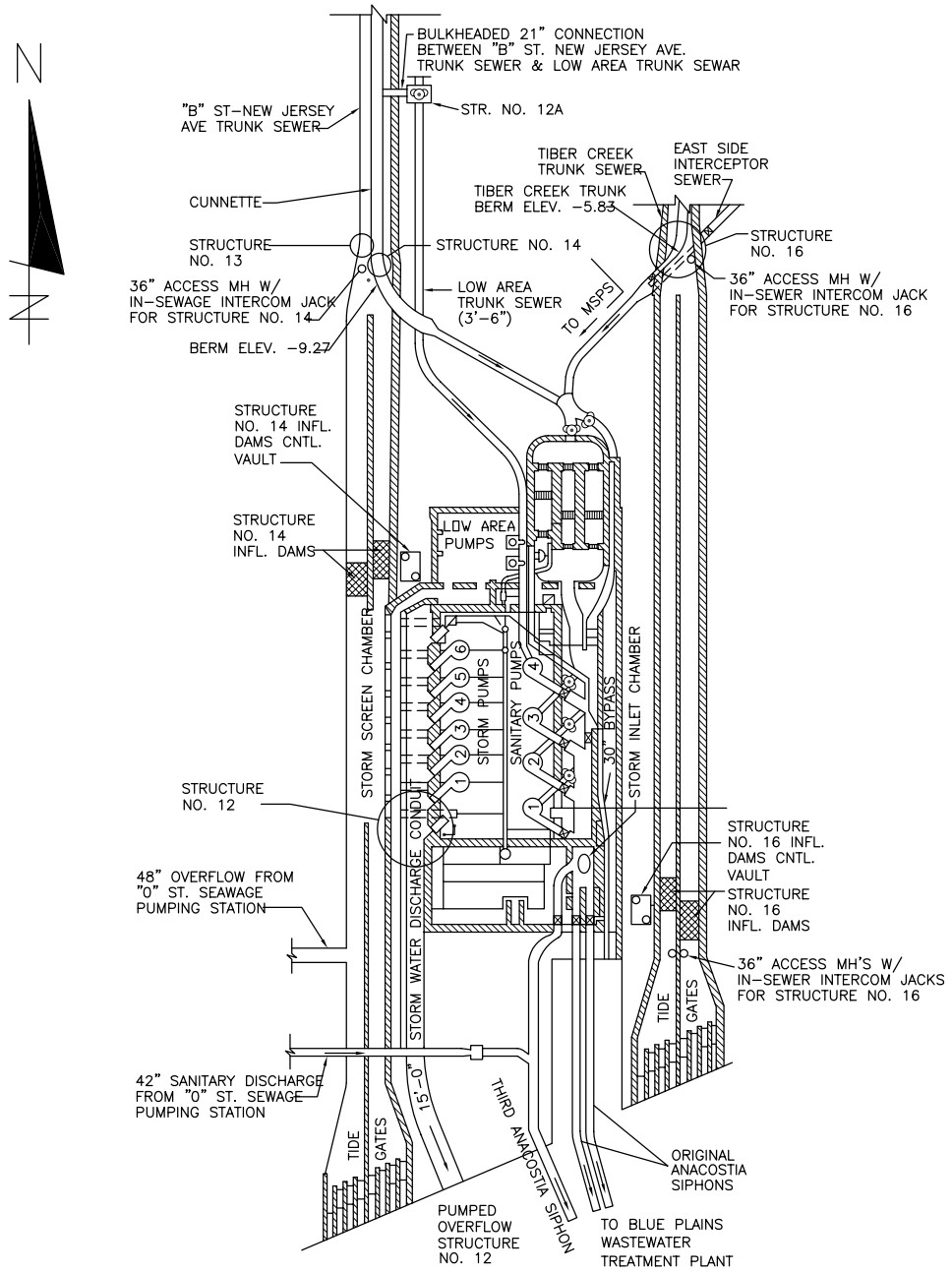


SECTION A–A
N.T.S.

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 009

STRUCTURE NO.
13

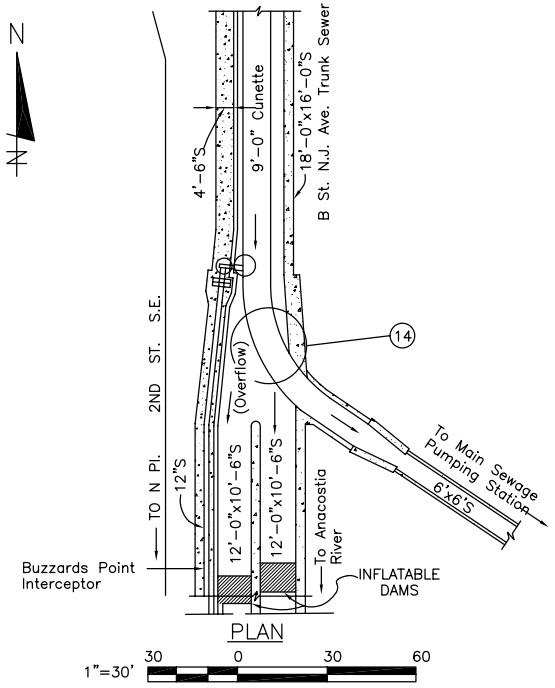
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–13 1:1 04/22/04 14:21 GH–G



STRUCTURE NO. 14a – B Street – New Jersy Avenue Trunk Sewer, 2nd Street about 250 ft.. North of N place S.E. This structure has a cunette-type regulator. The Overflow is from the crest of the cunette which is 4.36 ft. above the invert of the 18 ft. by 16 ft. horseshoe section, B Street –New Jersy Avenue Trunk Sewer. Dry Weather Flow is conveyed by a 6 ft. by 6 ft. Intercepting Sewer to the Main Sewage Pumping Station where the Combined Sewage Pumps lifts the sewage to flow to the Blue Plains Wastewater Treatment Plant. Overflow of the Trunk Sewer is further restricted by two inflatable dams in the 12 ft. by 10 ft. 6 inch horseshoe sections leading to the Anacostia River. Storm Combined Flows are delivered for treatment up to the capacity of the downstream sewer network.

There is an Outlet Structure and Tide Gates at the Outlet.

REFER TO STRUCTURE BOOK NO. PS-3 FOR ADDITIONAL INFORMATION ON PUMP STATION



REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 011a

MAIN SEWAGE PUMPING STATION

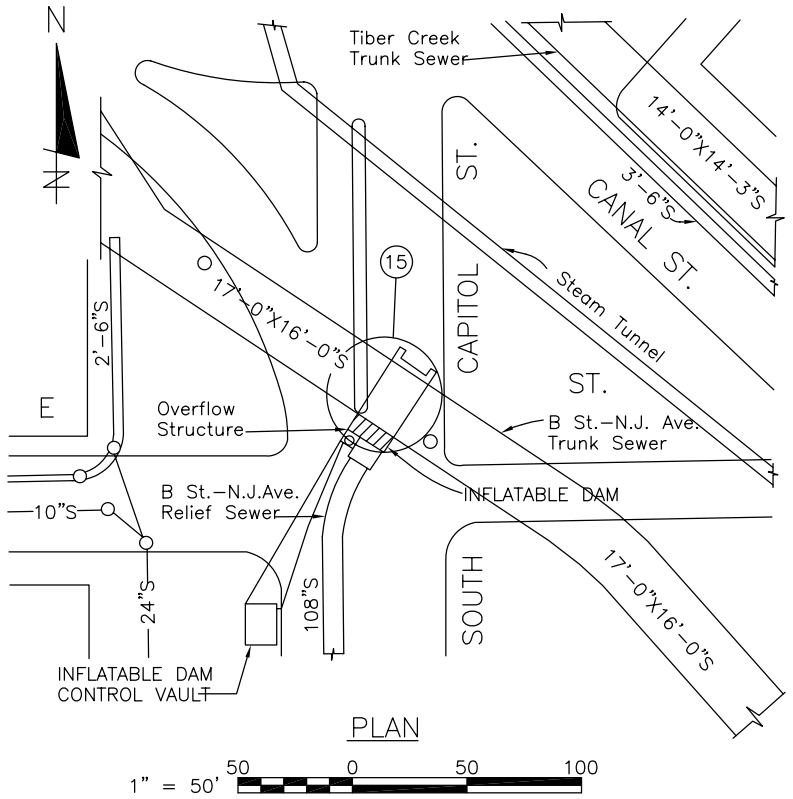
NOT TO SCALE

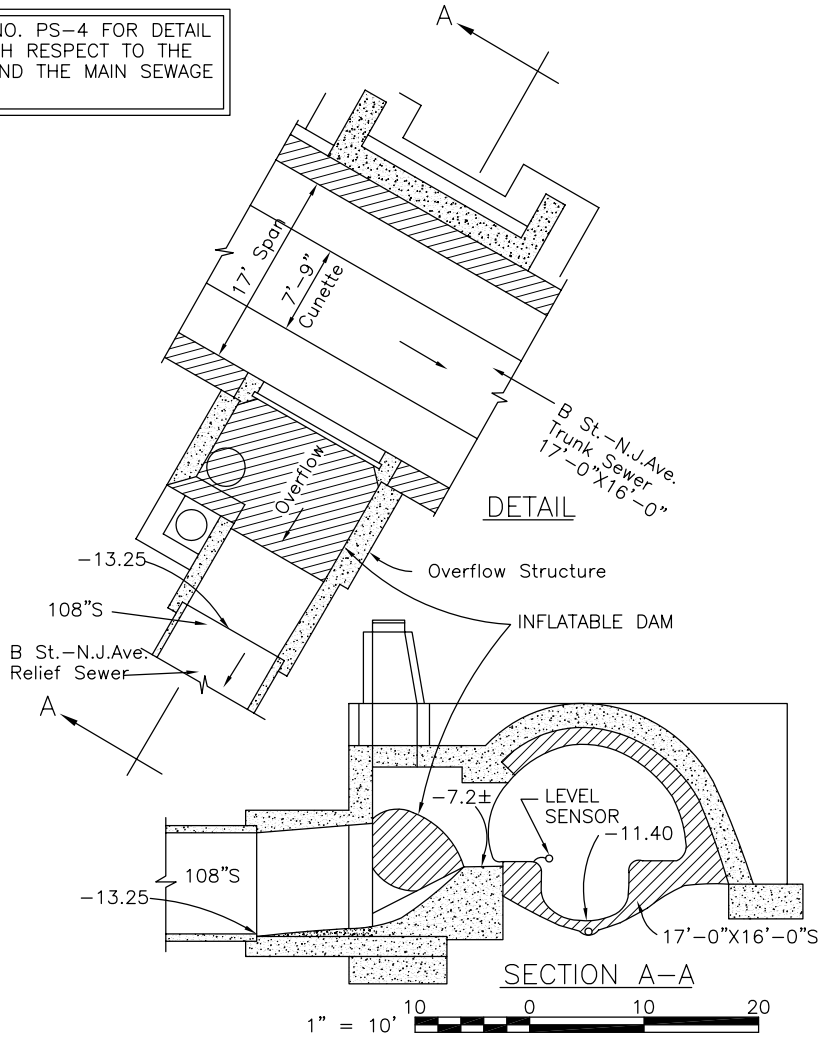
STRUCTURE NO. 14

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-14 1:1 04/22/04 14:33 GH-G

STRUCTURE NO.15–B Street–New Jersey Avenue Relief Sewer, South Capitol and E Streets. Structure No. 15 is a side outlet weir type structure with a masonry weir crest that serves as the base for an inflatable dam about 4.2 feet above the invert of the 17 ft. by 16ft. Combined Sewage Trunk Sewer. Overflow is into a 108–inch Relief Sewer. The Inflatable Dam retains flow up to the capacity of the Trunk Sewer System. Excess Flow in the 108–inch Relief Sewer is to the O Street Storm Water Pumping Station which discharges to the Anacostia River.

REFER TO STRUCTURE BOOK NO. PS–4 FOR DETAIL OF SCHEMATIC FLOW PLAN WITH RESPECT TO THE O STREET PUMPING STATION AND THE MAIN SEWAGE PUMPING STATION.





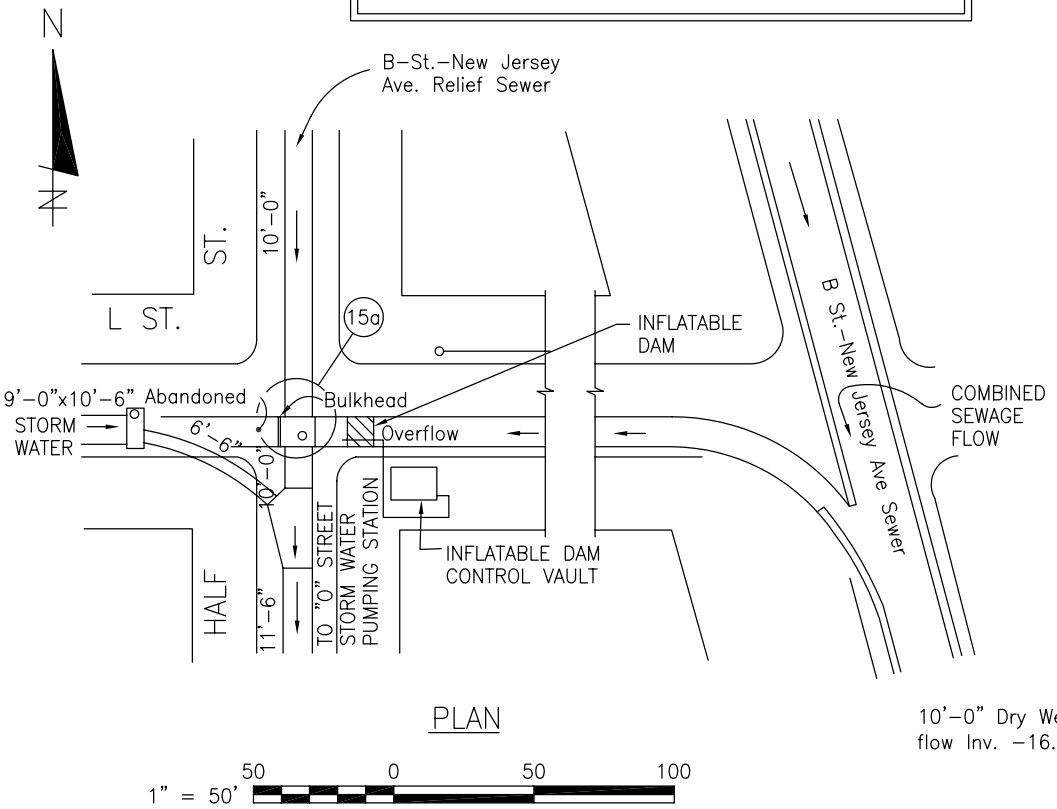
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 010

STRUCTURE NO.
15

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-15 1:1 04/22/04 14:27 GH-G

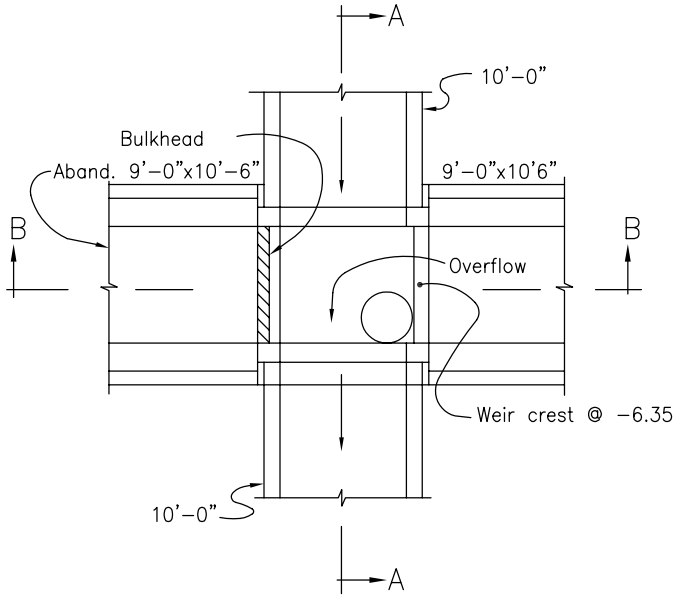
STRUCTURE NO. 15a – Half and 'L' Sts. S.E. Structure No. 15a is an Overflow for the B Street–New Jersey Avenue Trunk Sewer into a Relief Sewer which discharges into O Street Storm Water Pumping Station. The structure consists of a weir with crest elevation –6.35 over which excess flow discharges into a 9 ft. by 4 ft. opening in the top of the Relief Sewer. Overflow is further restricted by an Inflatable Dam which limits relief of the Trunk Sewer until it has reached its capacity.

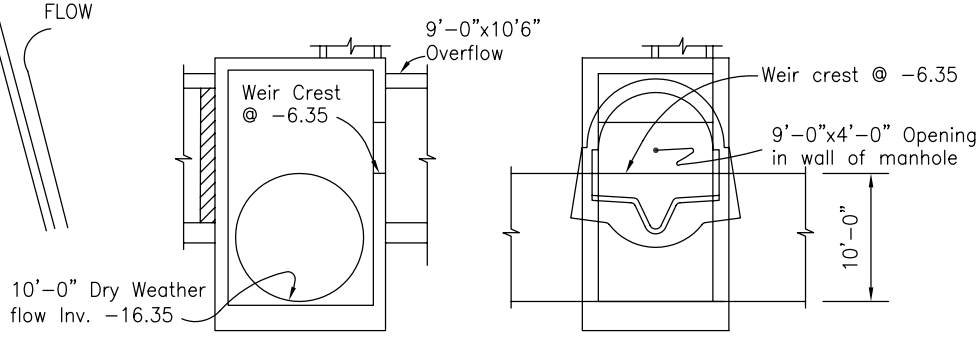
REFER TO STRUCTURE BOOK NO. PS–4 FOR DETAIL OF SCHEMATIC FLOW PLAN WITH RESPECT TO THE O STREET PUMPING STATION AND THE MAIN SEWAGE PUMPING STATION.



PLAN

1" = 50' 50 0 50 100





Section B–B Section A–A

DETAIL

1" = 10' 10 0 10 20

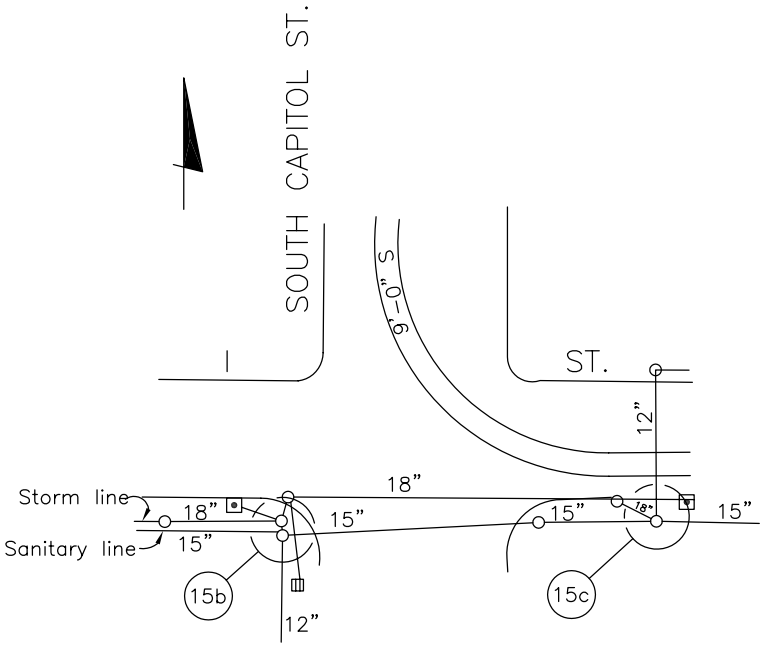
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 010

STRUCTURE NO. 15a

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–15A 1:1 04/22/04 14:29 GH–G

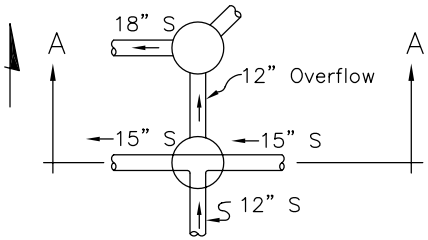
STRUCTURE NO. 15b. South Capitol and I Sts., S.W. Sanitary Sewage enters the Manhole via two 15–inch and 12–inch Sewers and normally exits through a continuation of the 15–inch line. Overflow may occur through a 12–inch Sewer location 22 inches above the Manhole invert. The Overflow ultimately discharges to the B St.–New Jersey Avenue Relief Sewer.

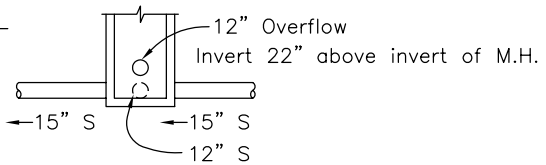
STRUCTURE NO. 15c. South Capitol and I Streets, S.E. Sanitary Sewage enters the Manhole via two 12–inch and 15–inch Sewers and normally exits through a continuation of the 15 in. line. Overflow may occur through a 18–inch Sewer location 18 inches above the Manhole invert. The Overflow ultimately discharges to the B St.–New Jersey Ave. Relief Sewer.

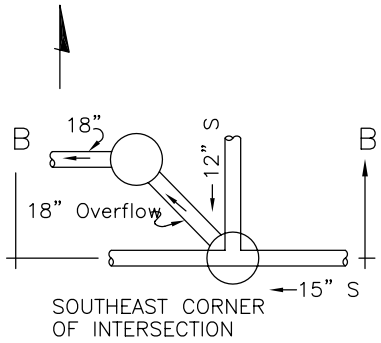


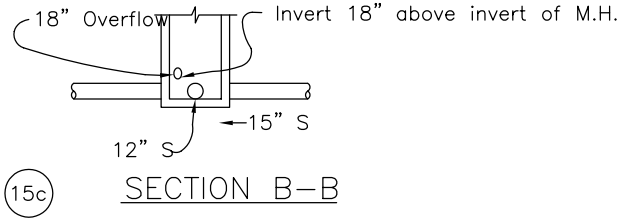
PLAN

1" = 50' 50 0 50 100









DETAILS

NOT TO SCALE

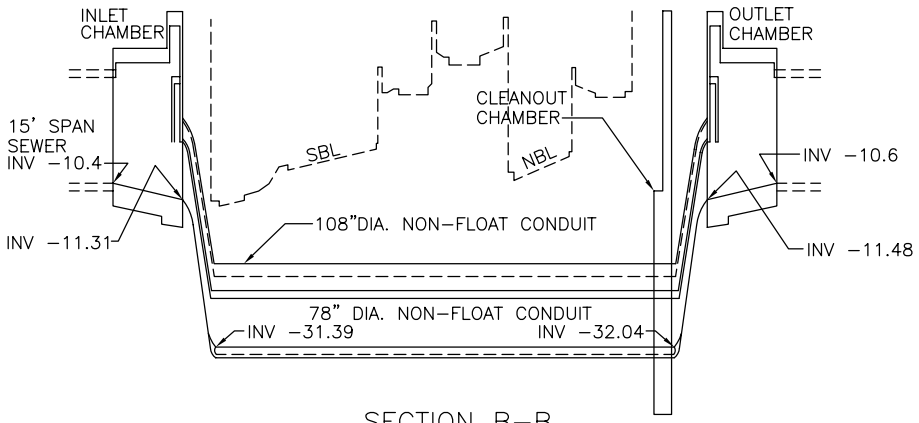
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 010

STRUCTURE NO.
15b, 15c

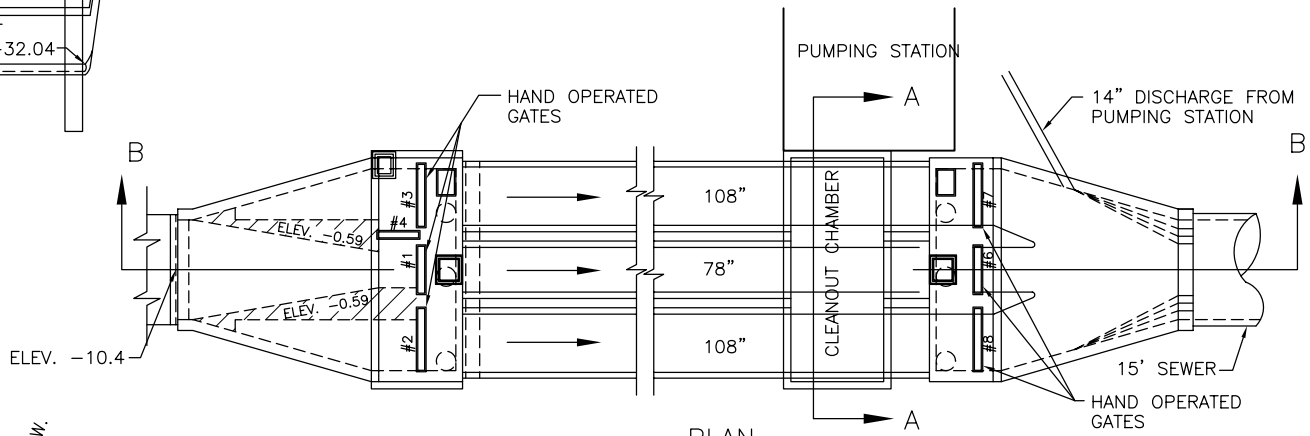
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–15B–15C 1:1 04/22/04 14:30 GH–G

STRUCTURE 15D – B STREET – NEW JERSEY AVENUE SIPHON

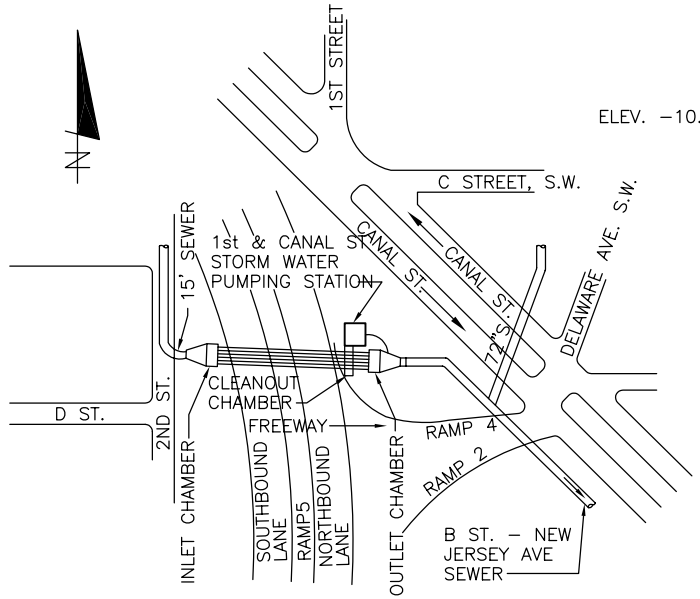
THE SIPHON UNDER THE FREEWAY HAS TWO 108 INCH DIAMETER AND ONE 78 INCH DIAMETER CONDUITS. THERE ARE GATES TO CLOSE OFF EACH OF THE SEPARATE CONDUITS IN THE INLET AND OUTLET CHAMBERS. THE CLEANOUT CHAMBER INCLUDES PIPING TO DEWATER THE UNUSED CONDUITS INTO THE WETWALL OF THE 1st AND CANAL STREET STROM WATER PUMPING STATION ADJACENT TO THE CLEANOUT CHAMBER AND OUTLET STRUCTURE. NORMAL FLOW IS INTO THE 78 INCH CENTER SIPHON CONDUIT. GATES #3, #4 AND #7 WERE FOUND TO BE CLOSED. JUNE 1992.



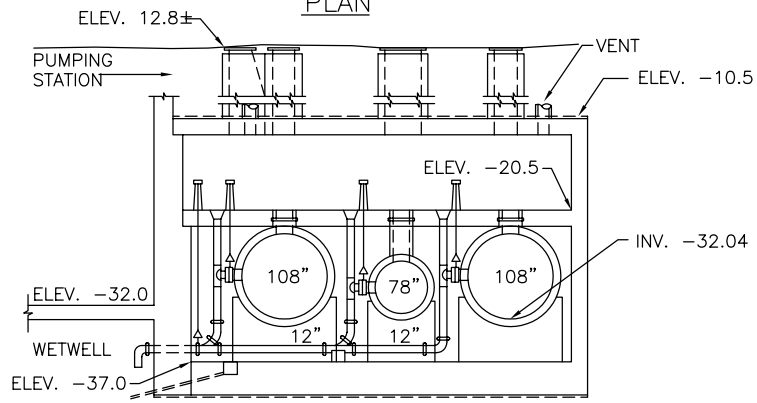
SECTION B–B



PLAN



LOCATION PLAN
NOT TO SCALE

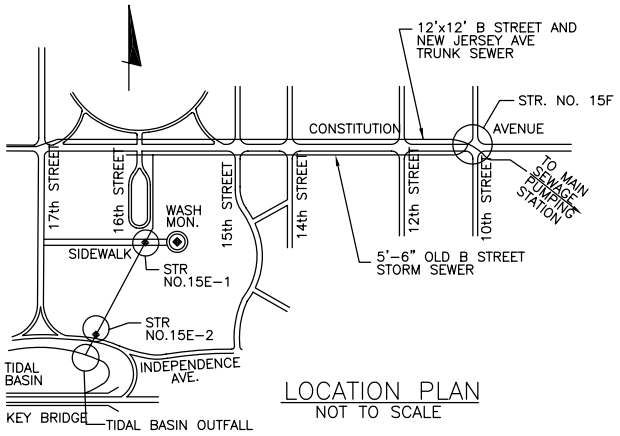


SECTION A–A

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
15d

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–15D 1:1 04/22/04 14:36 GH–G



LOCATION PLAN
NOT TO SCALE

STRUCTURE NO. 15E-1, 15E-2 & 15F

STRUCTURE NO. 15E-1 – WASHINGTON MONUMENT GROUNDS

This structure is located on the Washington Monument Grounds. The stop planks are normally left in the open position, this allows Storm Flow collected by the "Old" B Street Storm Sewer along Constitution Avenue to discharge into the Tidal Basin. Prior to a Potential flood event as defined in the District of Columbia's Flood Emergency Plan, the stop planks are lowered to the closed position. This prevents the inflow of water from the Tidal Basin due to the storm.

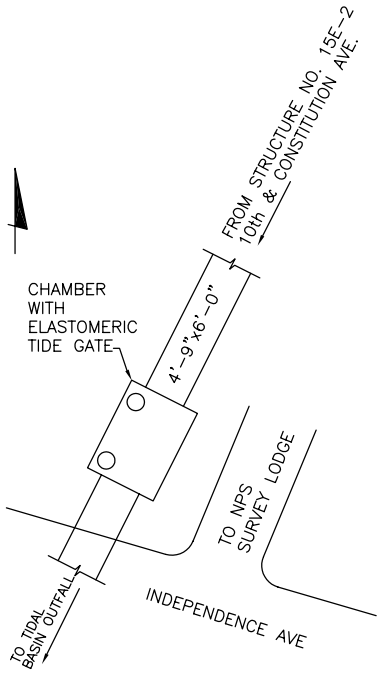
STRUCTURE NO. 15E-2 – INDEPENDENCE AVE EAST OF 17TH ST

This structure contains an elastyomeric tide gate to prevent Tidal Basin water from entering the B ST/NJ Ave Sewer at Str 15F.

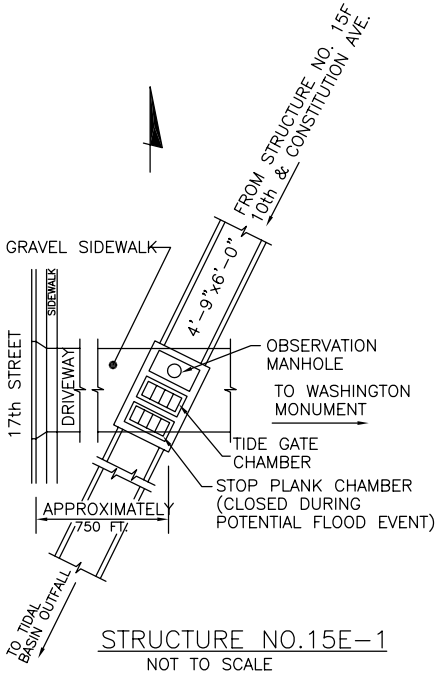
STRUCTURE NO. 15F – 10th STREET CONSTITUTION AVENUE

This structure is located near the northwest corner of the intersection of 10th Street and Constitution Avenue. This structure provides a connection between the "Old" B Street Storm Sewer with the B Street & New Jersey Avenue Trunk Sewer. The stop logs are normally left in place (closed position). This prevents any inflow from entering the Sanitary Trunk Sewer. Also, during a non-flood storm event the stop logs prevent the storm flow from entering the Sanitary Trunk Sewer. Storm water flows opposite grade or East to West down the Storm Sewer to Structure No. 15E (Washington Monument) then out to the Outfall at the Tidal Basin.

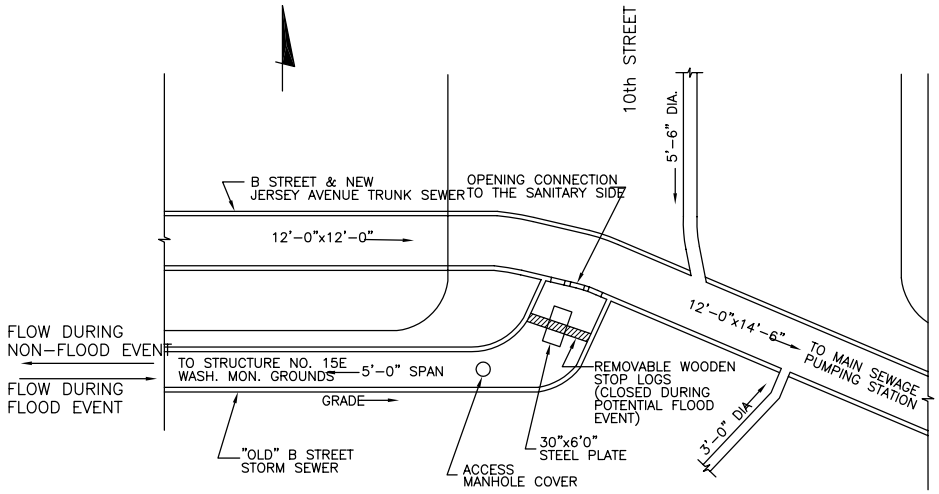
During a potential flooding event from high water on the Potomac River, the stop logs are then removed to allow Storm Flow that is collected by the "Old" B Street Storm Sewer along Constitution Avenue and tributaries to enter the Sanitary Trunk Sewer. This will prevent th flooding of Constitution Avenue.



STRUCTURE NO.15E-2
NOT TO SCALE



STRUCTURE NO.15E-1
NOT TO SCALE

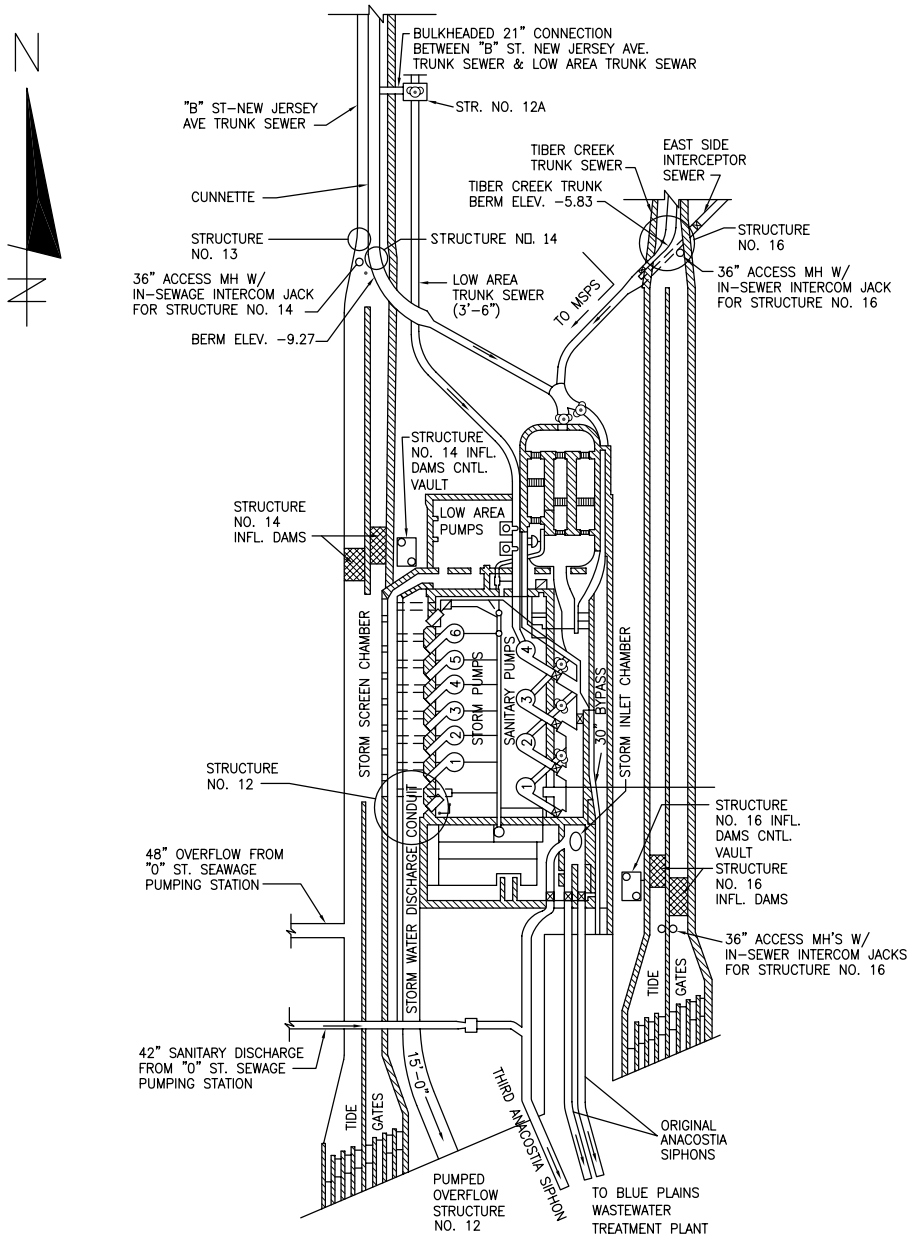


STRUCTURE NO.15F
NOT TO SCALE

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
15e-1, 15e-2, 15f

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-15E-15F 1:1 04/22/04 14:38 GH-G



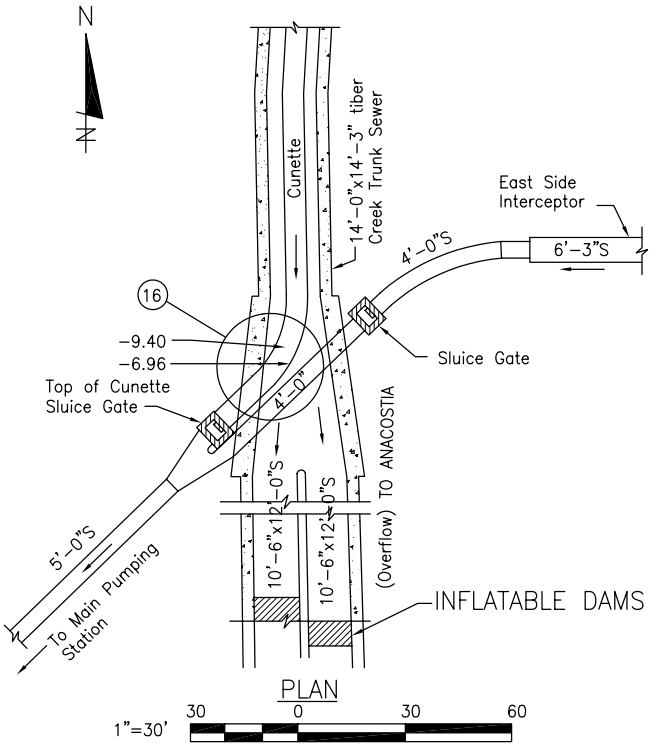
MAIN SEWAGE PUMPING STATION

NOT TO SCALE

STRUCTURE NO. 16 –Tiber Creek Trunk Sewer, at Main Sewage Pumping Station S.E. This structure has a cunette–tyoe regulator. The Strom Overflow is formed by the crest of the cunette which is 2.44 feet above the invert of the Tiber Creek Trunk Combined Sewer. Dry Weather Flow is conveyed into the Combined Sewage Pumps in the Main Sewage Pumping Station. Overflow is into two 10 ft. 6 inch by 12 ft. horseshoe sewers which are further restricted by inflatable dams which limit the Overflow into the Anacostia River to that which can not be accommodated by the Main Sewage Pumping Station Combined Sewage (Sanitary) Pumps.

There are Tide Gates at the Outlet.

REFER TO STRUCTURE BOOK NO. PS-3 FOR ADDITIONAL INFORMATION ON PUMP STATION



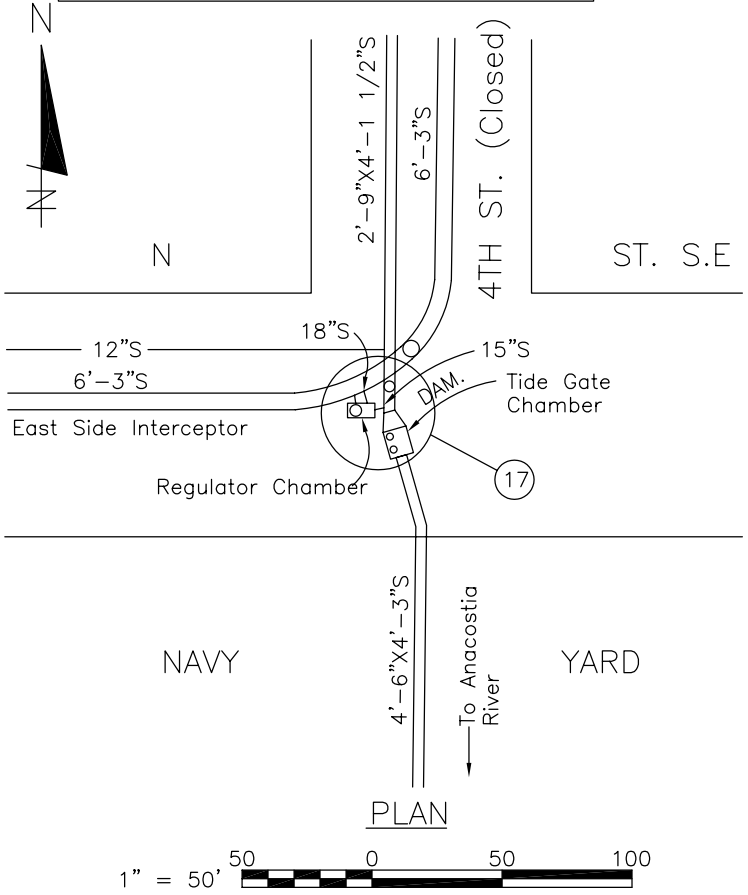
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 012

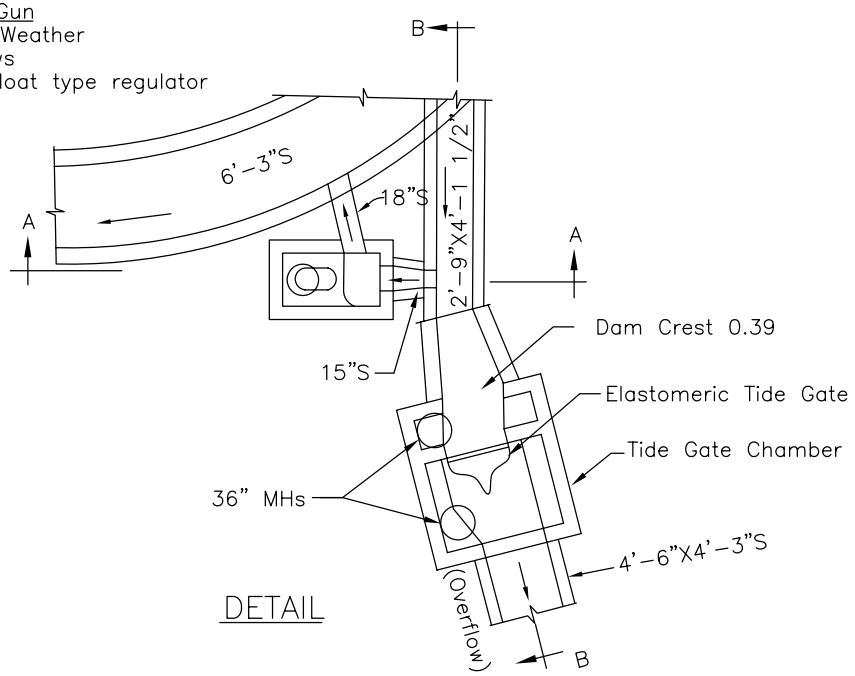
STRUCTURE NO. 16

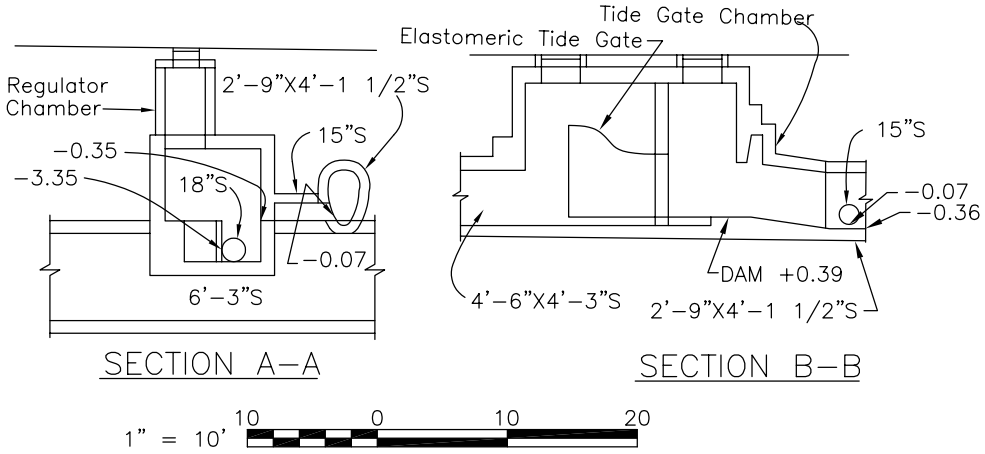
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-16 1:1 04/22/04 14:45 GH-G

STRUCTURE NO. 17, Fourth and N street, S.E both extended in the Naval Gun Factory. A Dam in the 4th Street SE Combined Sewer, diverts normal Dry Weather Flow through an 18" Sewer into the 6'3" East Side Interceptor. Storm Flows overflow the dam into the Anacostia River. This structure was formerly a float type regulator with a float mechanism disabled. Now it is a sump type regulator.

NOTE:
These illustrations are based on design plans.
To be revised pending receipt of
record drawings from construction contractor.





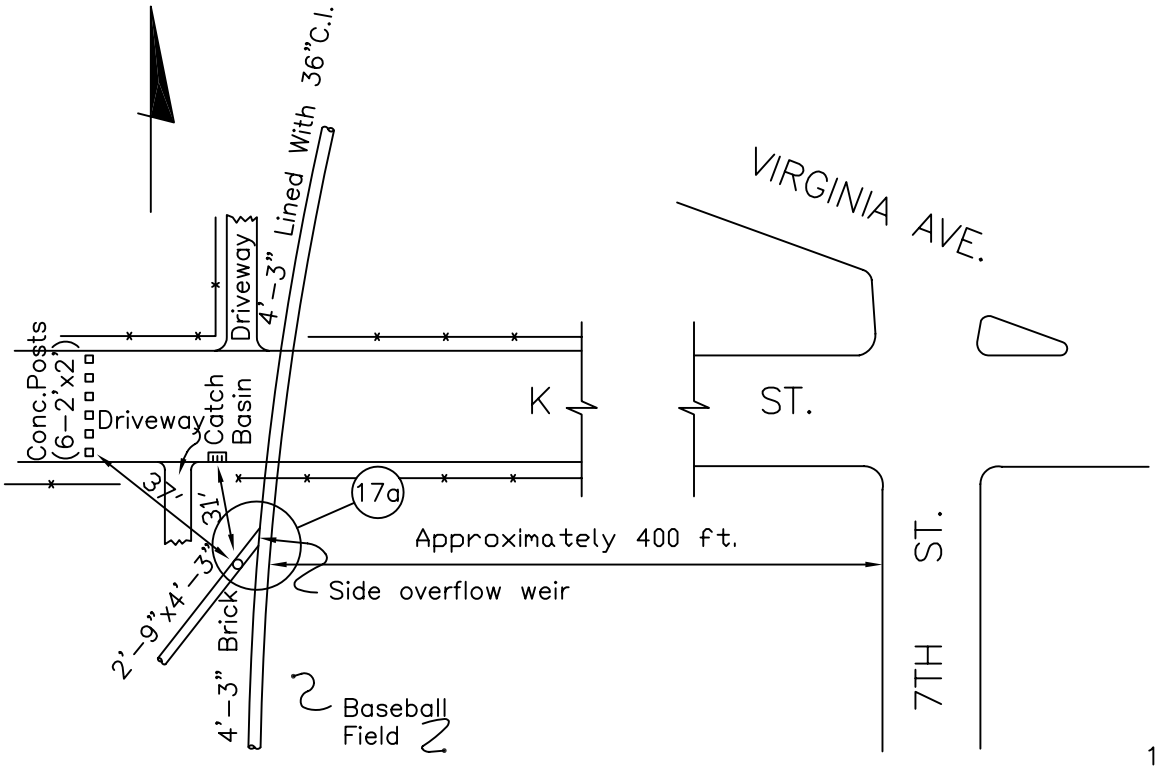


REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 013

STRUCTURE NO.
17

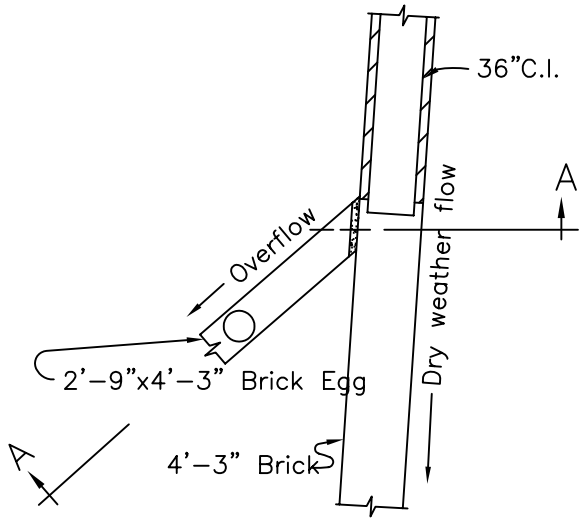
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-17 1:1 04/22/04 14:51 GH-G

STRUCTURE NO. 17a, K St between 6th and 7th Streets, S.E. Normal Dry Weather Flow is conveyed through a 4ft. – 3 in. circular sewer South to subsequent Overflow Structure (No.18) at 6th and M Sts S.E. Overflow spills over a 1.4 ft. high side weir into a 2'–9" by 4'–3" egg–shaped sewer which leads to a subsequent Overflow Structure (No.17) at 4th and N Streets, S.E.

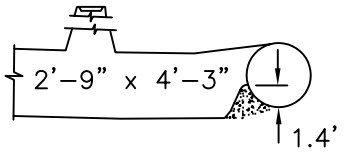


PLAN

1" = 50' (50 0 50 100)



DETAIL



SECTION A–A

1" = 10' (10 0 10 20)

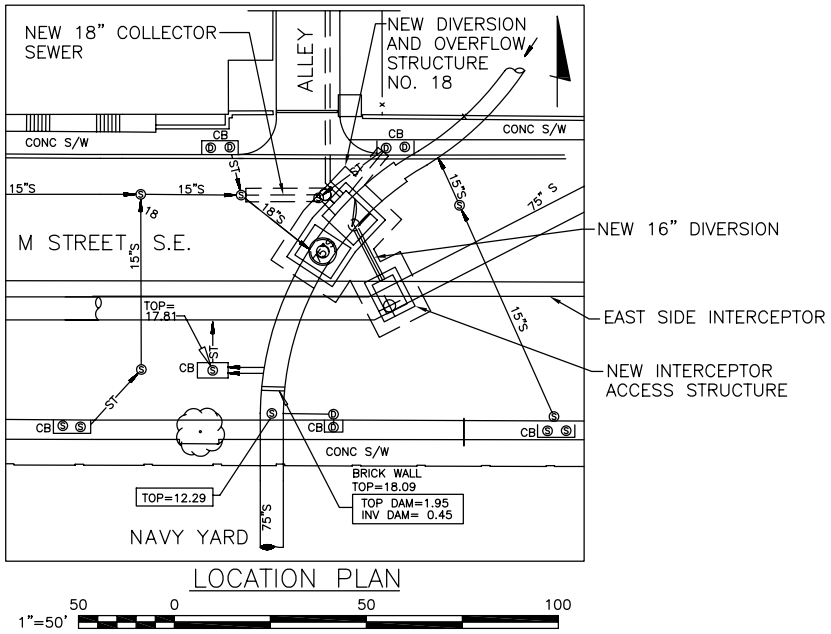
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 013

STRUCTURE NO. 17a

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-17A 1:1 04/22/04 14:53 GH-G

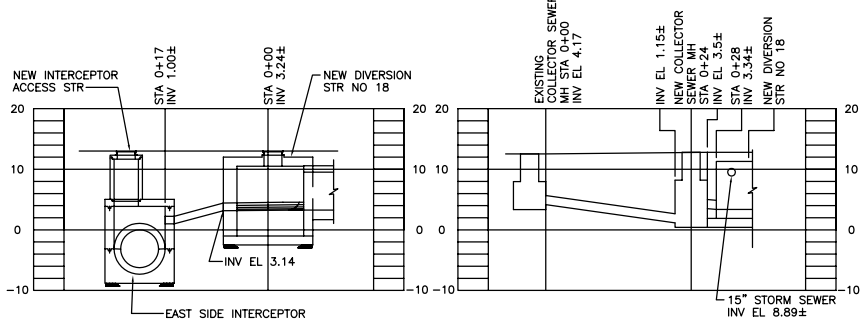
STRUCTURE NO. 18 6th STREET AND M STREET SE

A Concrete Weir and 16" Pipe divert the Dry Weather Flow to the Eastside Interceptor. Flows beyond the capacity of the Diversion Overflow the Weir, and pass elastomeric Tide Gates before overflowing to the Anacostia River via a 6'–3" Overflow Line.

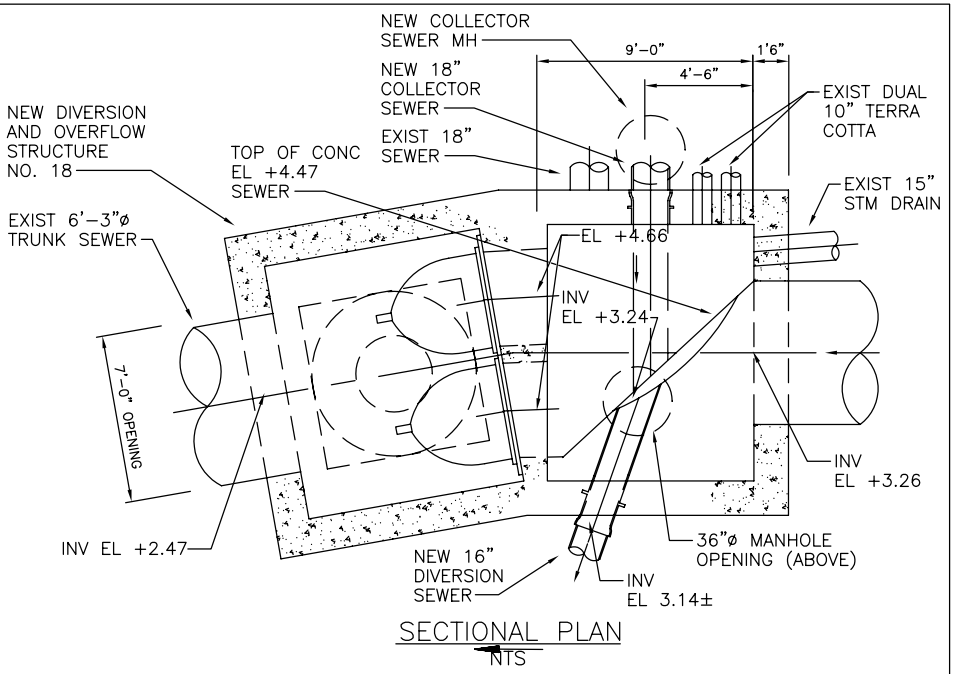


LOCATION PLAN

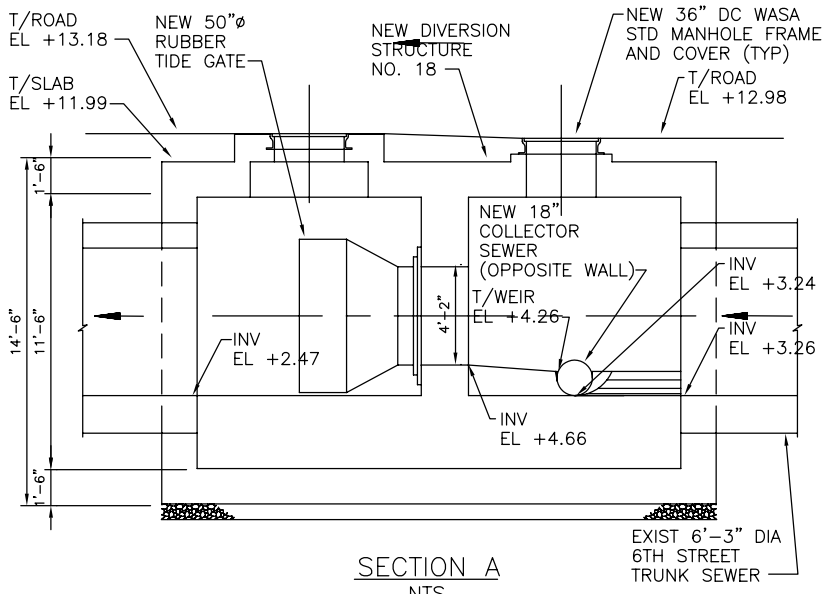
1"=50' 50 0 50 100



PROFILE
NTS



SECTIONAL PLAN
NTS

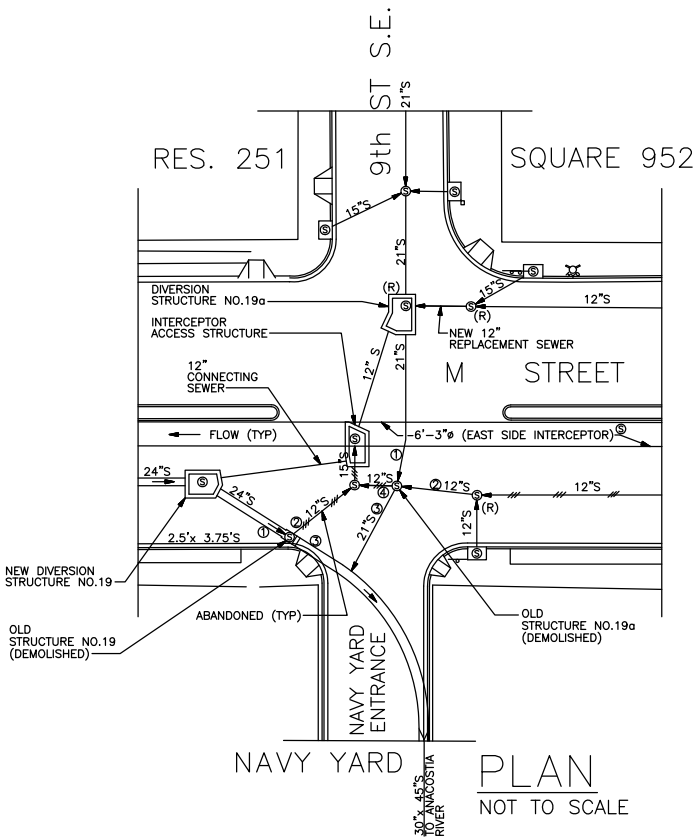


SECTION A
NTS

REVISED BY: EPMC–3A
REVISED DATE: JANUARY 2006
ASSOCIATED NPDES OUTFALL # 014

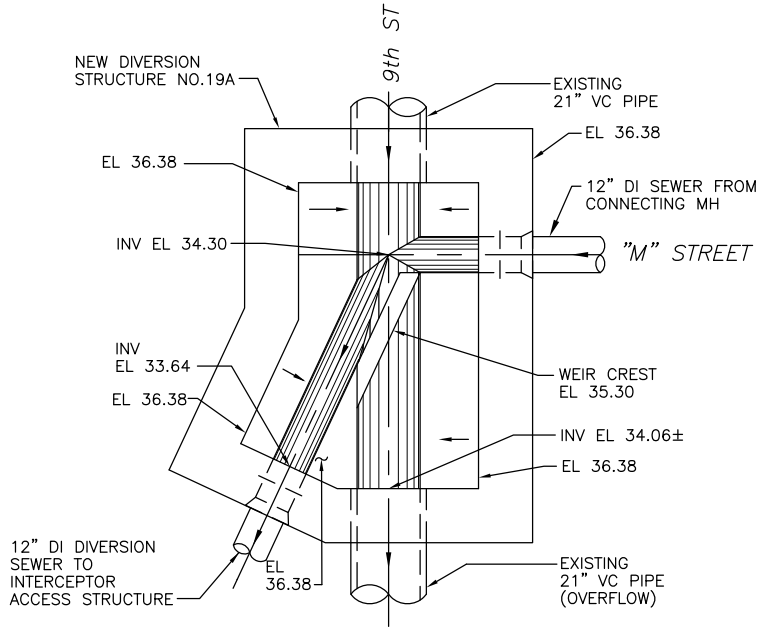
STRUCTURE NO. 18

FILE: H:\1163\MAST PLAN\TECH MEMO\WASA STRUCTURE BOOK\CURRENT\STRUCTURE\STR–18.DWG



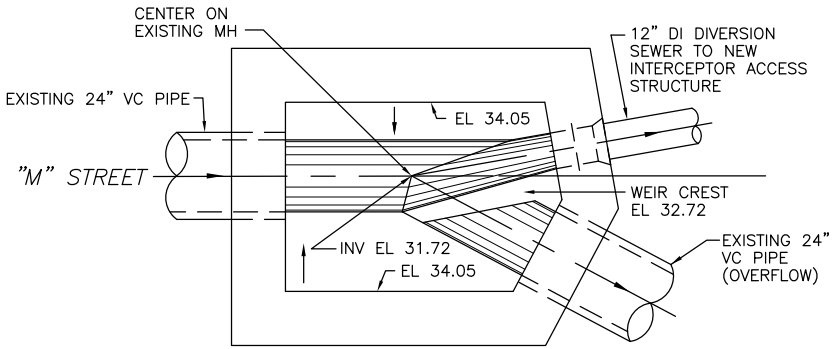
PLAN

NOT TO SCALE



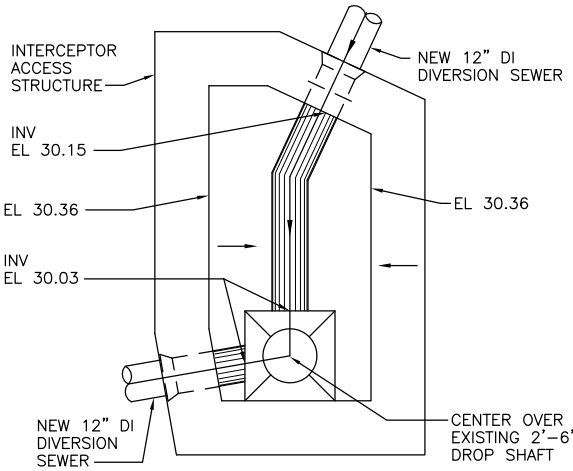
PLAN – STRUCTURE 19a

NOT TO SCALE



PLAN – STRUCTURE 19

NOT TO SCALE



PLAN – INTERCEPTOR ACCESS STRUCTURE

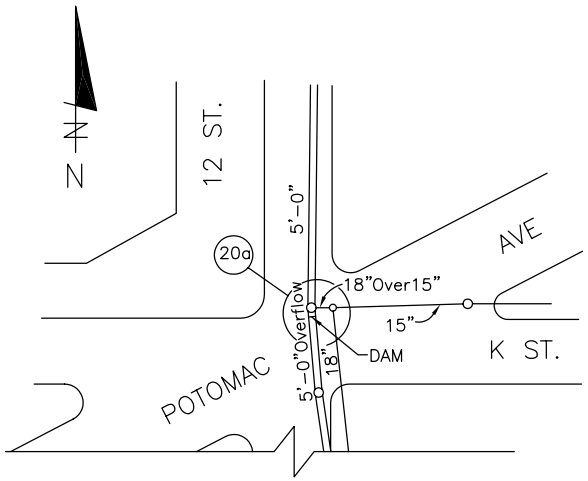
NOT TO SCALE

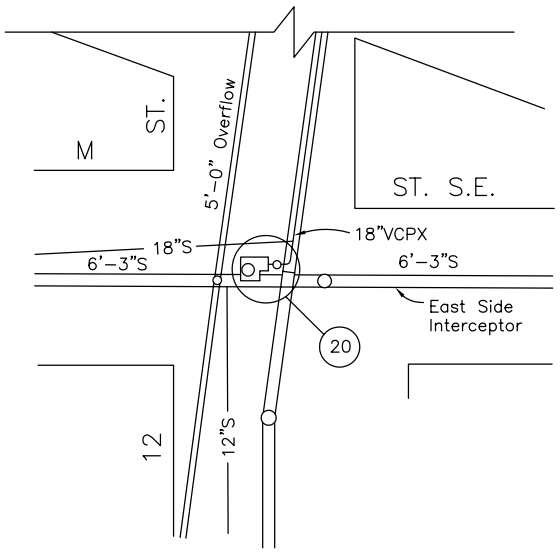
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 015

STRUCTURE NO.
19, 19a

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-19-19A 1:1 04/23/04 16:06 GH-G

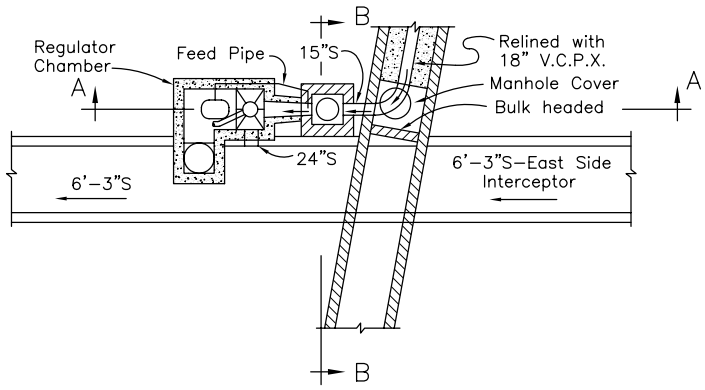
STRUCTURE NO. 20, 12th St. at M St. and K St., S.E. The Control Structure for this Overflow is located at 12th and M Streets, S.E.; however, the actual flow diversion occurs upstream at K St. Dry Weather Flow in the 5'0" Combined Sewer is retained by a dam crest elevation 37.3 and is intercepted by an 18" sewer at 12th and K Sts via a sump-type structure with a 3 ft. square opening. This flow is then conveyed south to the East Side Interceptor at 12th and M Streets. The 5'0" Overflow line continues south to the Anacostia River.
Structure NO. 20, located on M and 12th Streets was formerly a float type regulator with the float mechanism removed. This Structure directs Dry Weather Flow from Structure NO. 20a to the East Side Interceptor and contains no overflow.





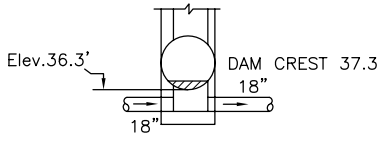
PLAN

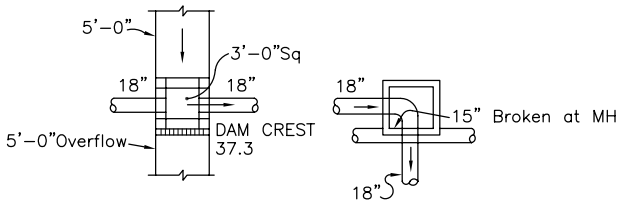
1" = 50' 50 0 50 100



DETAIL 20

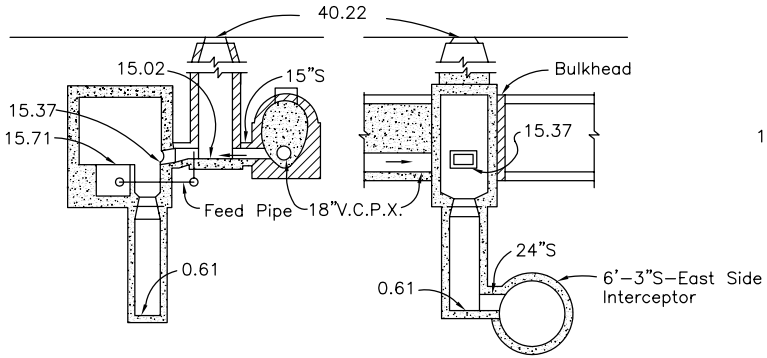
1" = 10' 10 0 10 20





DETAIL 20a

1" = 10' 10 0 10



SECTION A-A SECTION B-B

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 016

STRUCTURE NO.
20, 20a

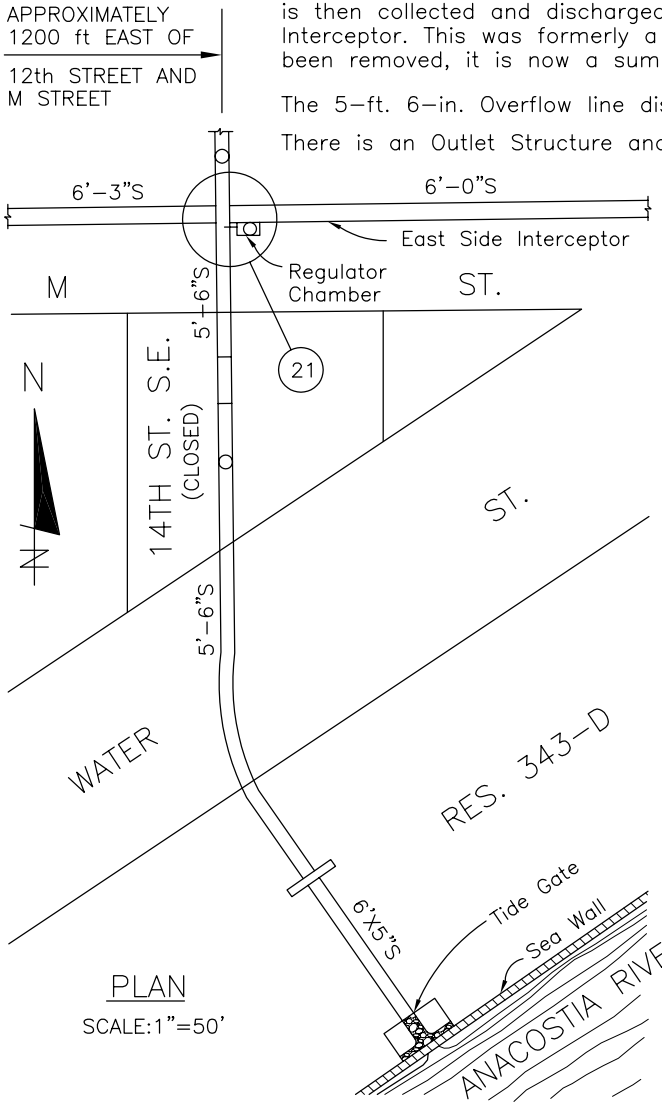
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-20-20A 1:1 04/23/04 08:54 GH-G

STRUCTURE NO. 21. 14th and M Streets, S.E.

The Storm Overflow is formed by a masonry dam across the 5–ft. 6–in. Sewer. There is a 15–inch Intercepting Connection which conveys the Dry–Weather Flow through the float–controlled regulator and discharges it into a sump. The Flow is then collected and discharged through a 24–inch line into the East Side Interceptor. This was formerly a float type regulator. The float devise has been removed, it is now a sump type regulator.

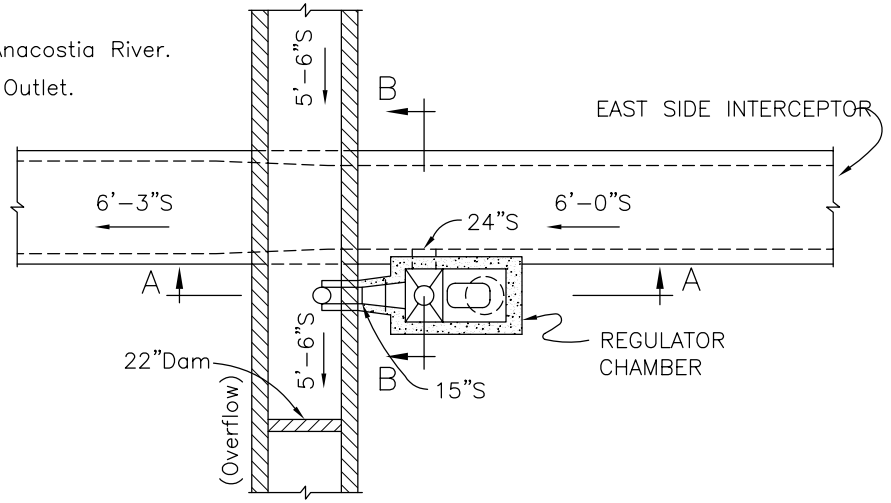
The 5–ft. 6–in. Overflow line discharges into the Anacostia River.

There is an Outlet Structure and Tide Gate at the Outlet.



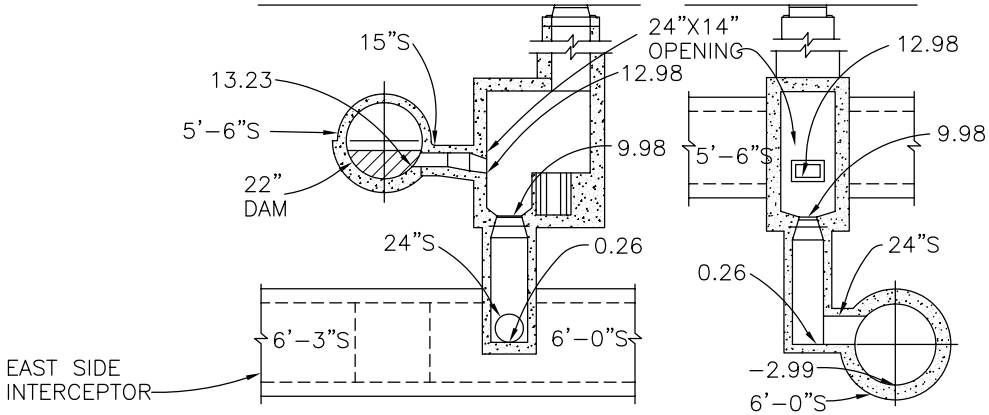
PLAN

SCALE:1"=50'



PLAN – STRUCTURE NO. 21

NOT TO SCALE



SECTION A–A

NOT TO SCALE

SECTION B–B

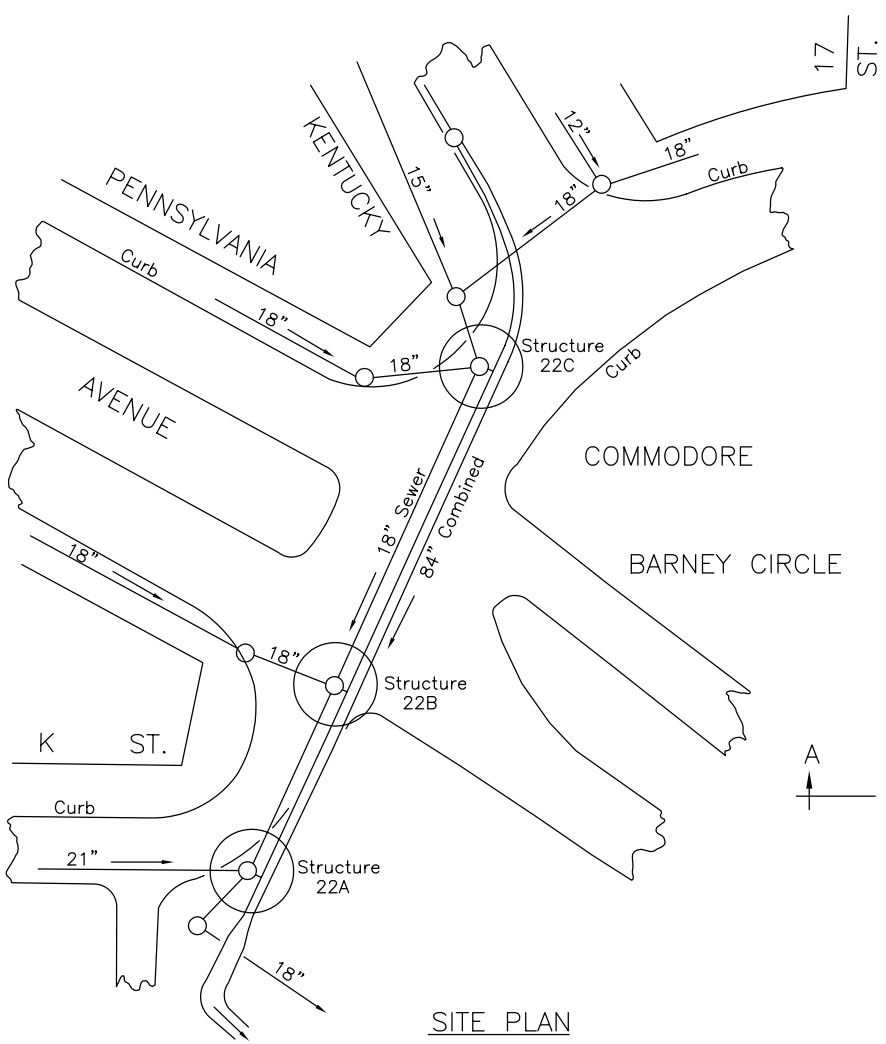
NOT TO SCALE

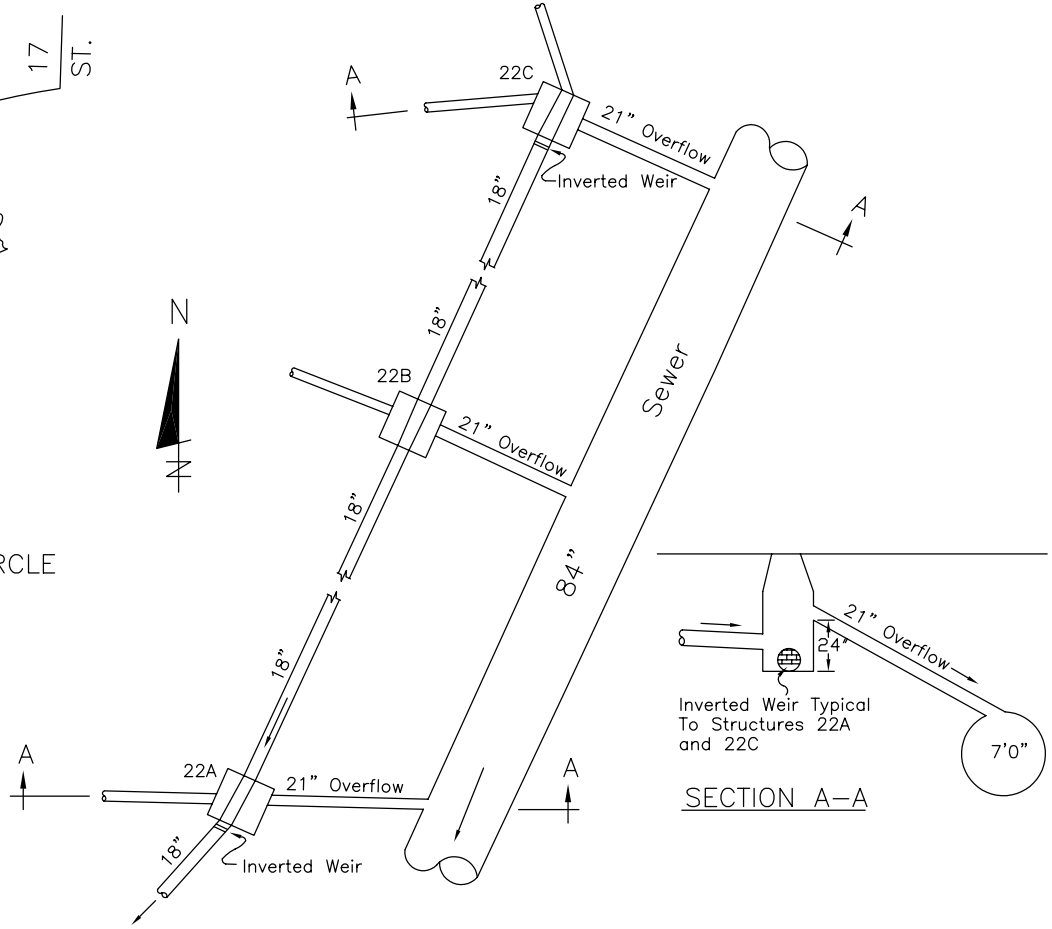
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 017

STRUCTURE NO.
21

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–21 1:1 04/23/04 09:54 GH–G

STRUCTURE NO. 22, Barney Circle and Pennsylvania Ave, S.E. Normal Dry Weather Flow enters one of a series of three manholes located on the western side of Barney Circle, and is conveyed out via an 18–inch Sewer excess flows may exit each manhole through a 21–inch Overflow Line located 24 inches above the manhole invert. The Sanitary Sewers from Structures No. 22a and 22c are constricted by inverted masonry Weirs.



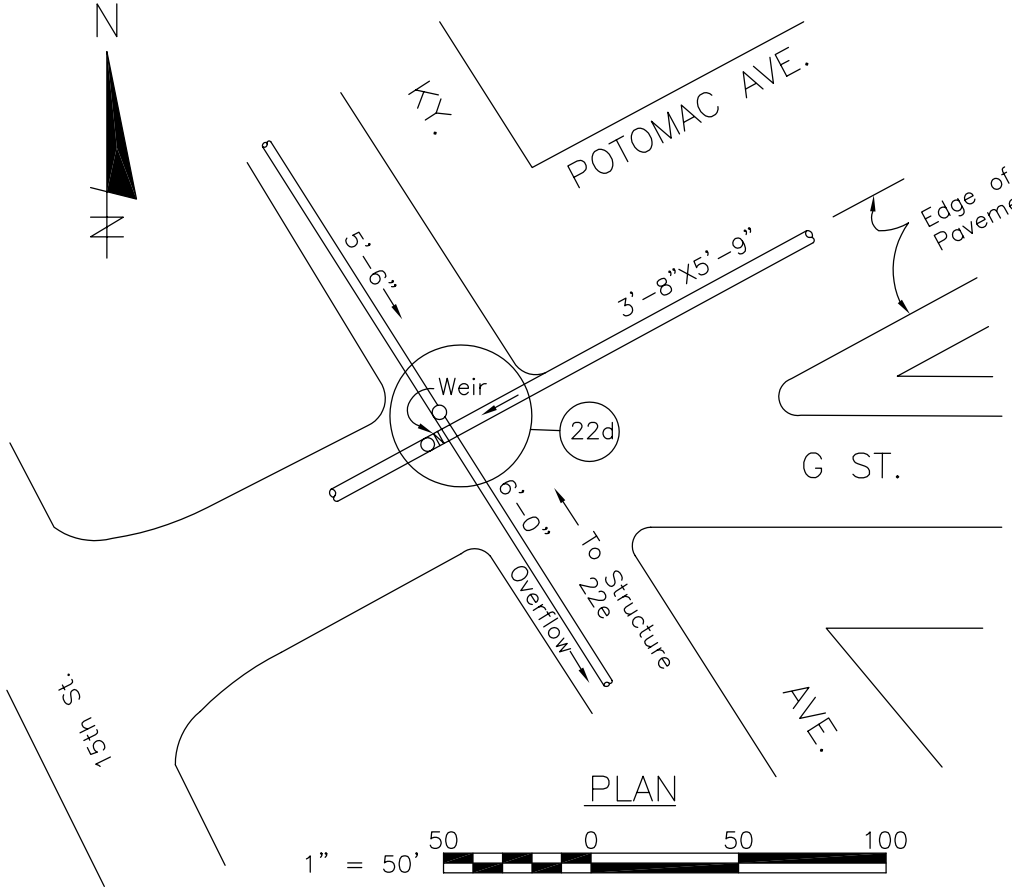


REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 018

STRUCTURE NO.
22A, 22B, 22C

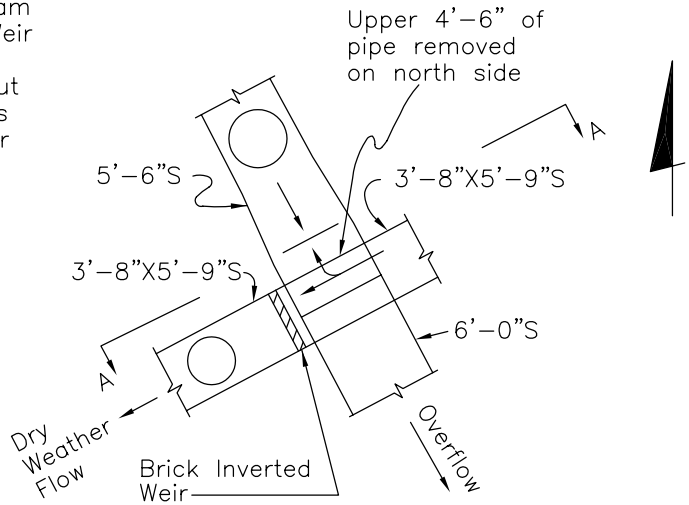
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-22a-22b-22c 1:1 04/23/04 09:56 GH-G

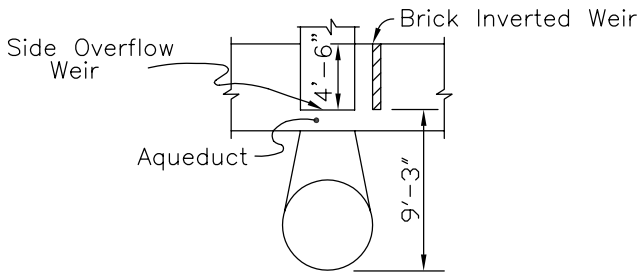
STRUCTURE NO. 22d, Kentucky Ave.. and Potomac Ave., S.E. Normal Dry Weather Flow in the 3'–8" by 5'–9" Combined Sewer continues downstream in the same sewer after passing underneath a 4'–6" inverted masonry Weir extending down from the crown. Excess Flows are obstructed by the inverted Weir and spill out of the Combined Sewer through an opening cut out of the north side of the pipe. The crest of the cut–out is 15 inches above the Combined Sewer invert. Overflow is conveyed to Anacostia River Via a 6'–0" sewer.



PLAN

1" = 50' 50 0 50 100





SECTION A–A

DETAIL

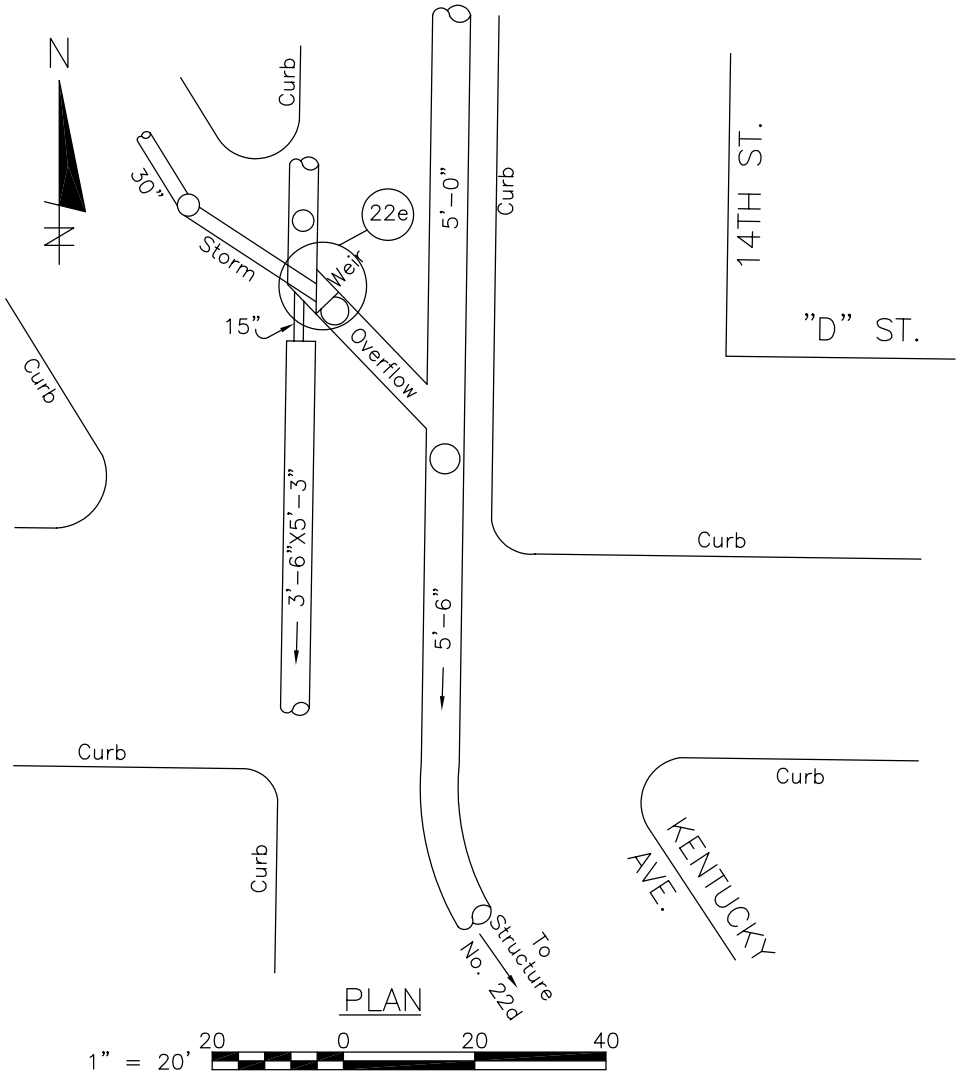
1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 018

STRUCTURE NO.
22d

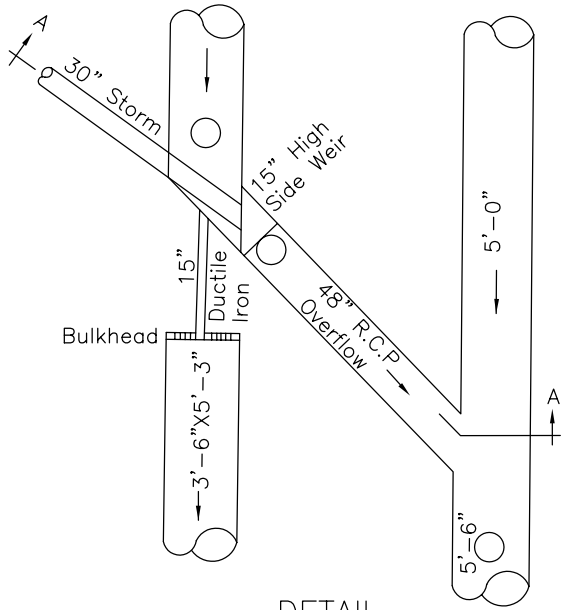
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–22D 1:1 04/23/04 09:57 GH–G

STRUCTURE NO. 22e, 14th Street and Kentucky Ave. S.E. Overflow from the 3'–6" by 5'–3" Combined Sewer spills over a 15–inch side Weir into a 48–inch Overflow pipe and ultimately to the Anacostia River. Normal Dry Weather Flow continues southward through a 15–inch constricting pipe.

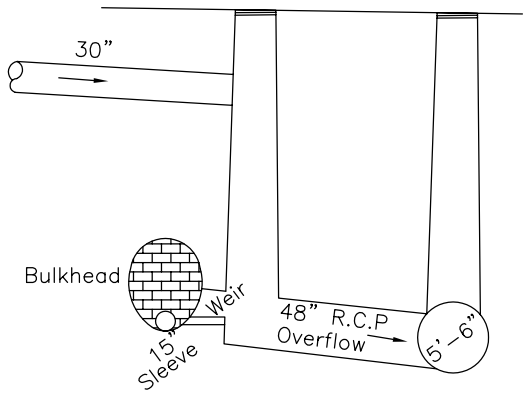


PLAN

1" = 20' 20 0 20 40



DETAIL



SECTION A–A

1" = 10' 10 0 10 20

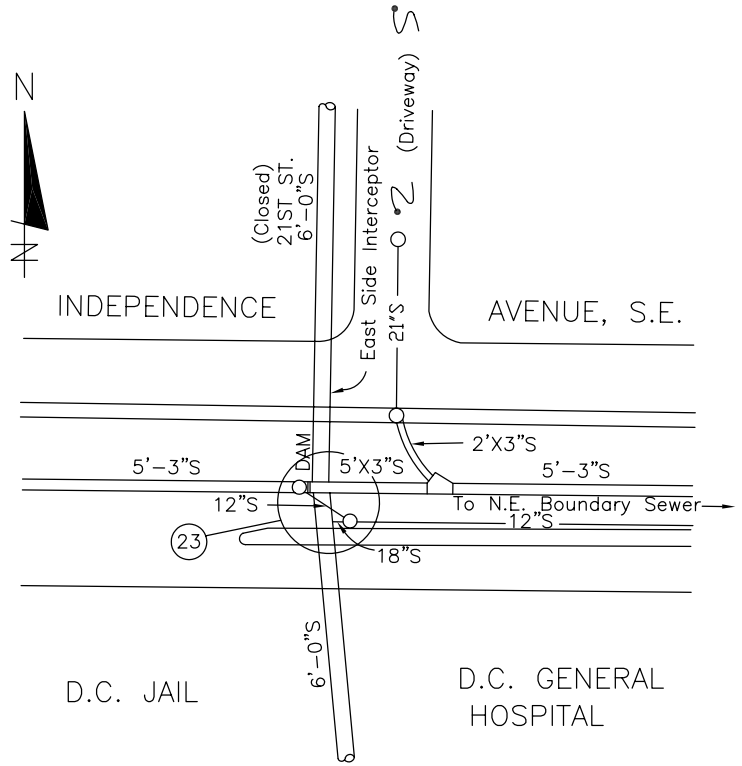
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 018

STRUCTURE NO.
22e

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–22E 1:1 04/23/04 09:58 GH–G

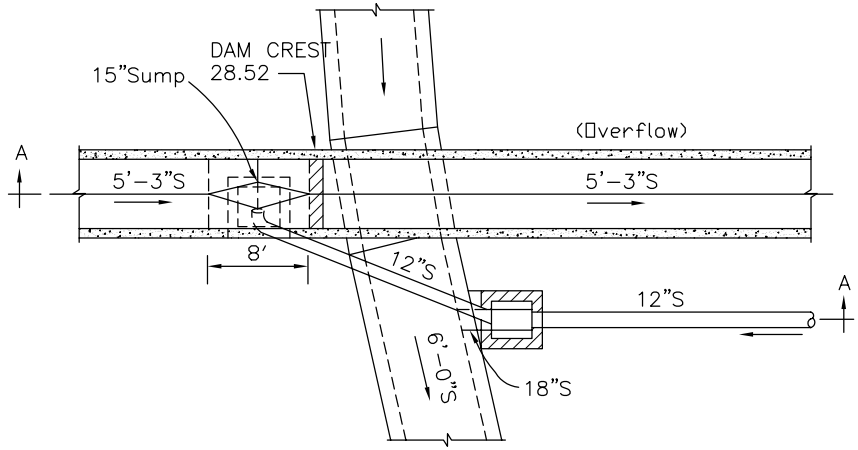
STRUCTURE NO. 23, Independence Avenue and 21st Street, Extended, S.E.
This structure has a sump–type regulator. The Storm Overflow is formed by a depressed section of the invert of the 5–ft. 3–in. sewer and a dam with crest elevation 28.52. The 5–ft. 3–in Combined Sewer enters the Overflow Structure and a 12–inch intercepting Connection conveys the Dry–Weather Flow to the East Side Interceptor.

The 5–ft. 3–in. Overflow Line discharges into the Northeast Boundary Trunk Sewer which in turn, discharges into the Northeast Boundary Swirl Facility.

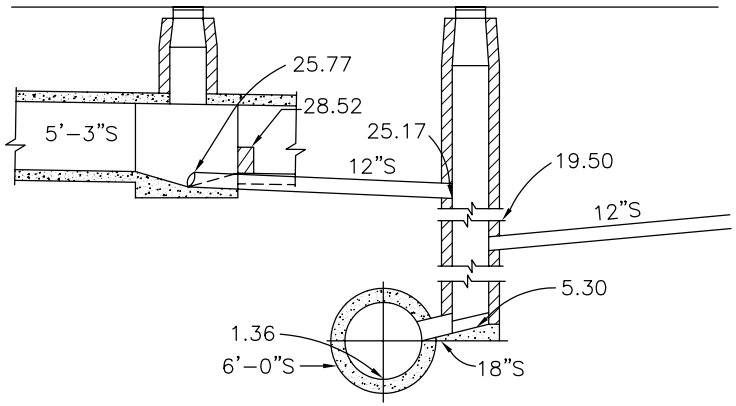


PLAN

1" = 50' 50 0 50 100



DETAIL



SECTION A–A

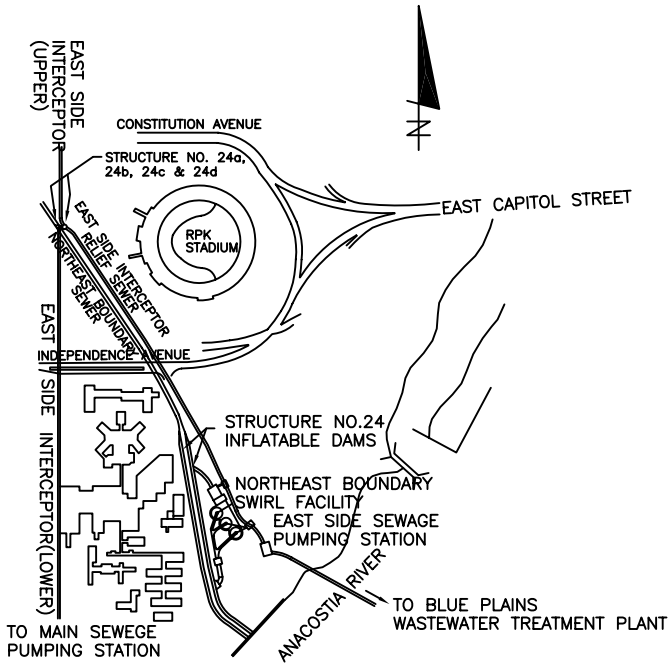
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 019

STRUCTURE NO.
23

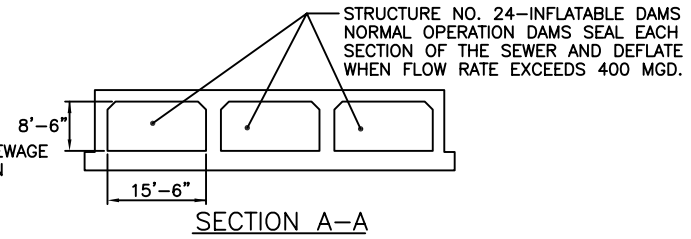
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-23 1:1 04/23/04 09:60 GH-G

STRUCTURE NO. 24–NORTHEAST BOUNDARY SEWER AT THE NORTHEAST BOUNDARY SWIRL FACILITY

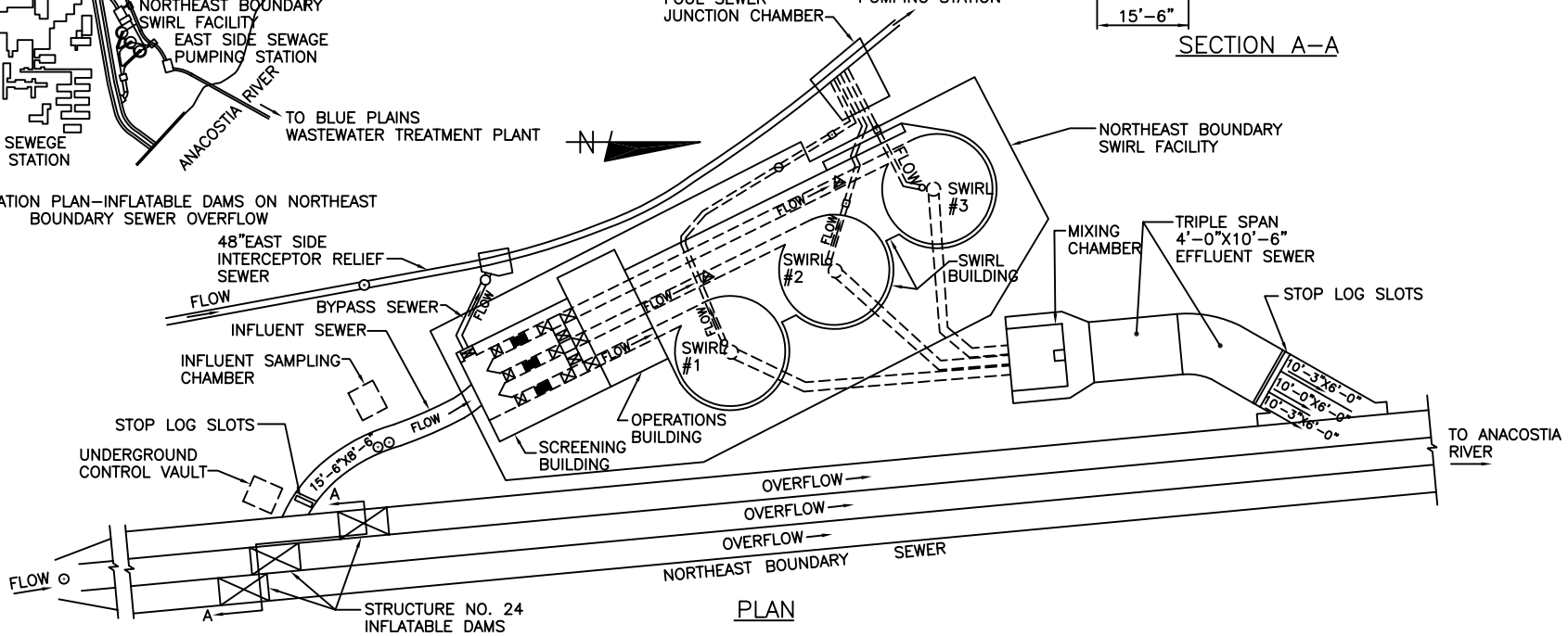
This structure consists of three inflatable dams one each in the three 15 ft. 6 in. by 8 ft. 6 in. channels of the Northeast Boundary Sewer. At flows greater than a setpoint of 350 MGD the two western most dams deflate allowing discharge into the Anacostia River. The eastern dam continues to divert flow into the Northeast Boundary Swirl Facility until flow reaches a setpoint of 400 MGD, at which time this dam also deflates. The dam inflation controls will reulate air pressure within the dams to maintain flows through the facility at the setpoints.



LOCATION PLAN–INFLATABLE DAMS ON NORTHEAST BOUNDARY SEWER OVERFLOW



SECTION A–A



PLAN

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 019

STRUCTURE NO. 24

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-24 1:1 04/23/04 11:27 GH-G

STRUCTURE NO. 24a–NORTHEAST BOUNDARY TRUNK SEWER. EAST CAPITAL STREET AND 21st STREET EXTENDED

Normal Dry Weather Flow is conveyed from the 72 inch span cunette in the Northeast Boundary Sewer through the Control Structure into the 6 ft. East Side Interceptor. Flows which can not be contained within the cunette overflow into the Northeast Boundary Sewer which is restrained by inflatable dams (see Structure No. 24 for more details of dams) so that Overflow is diverted to the Northeast Boundary Swirl Facility. Northeast Boundary Sewer in excess of the Swirl Facility Capacity are discharged into the Anacostia River. Combined sewage flow in the East Side Interceptor is maintained at the sewers capacity by the inflatable dams in the Northeast Boundary Sewer. (prior to 1992, this Structure was designated as No. 24) (There are tide gates on the Overflow Outfall Structure)

STRUCTURE NO. 24b

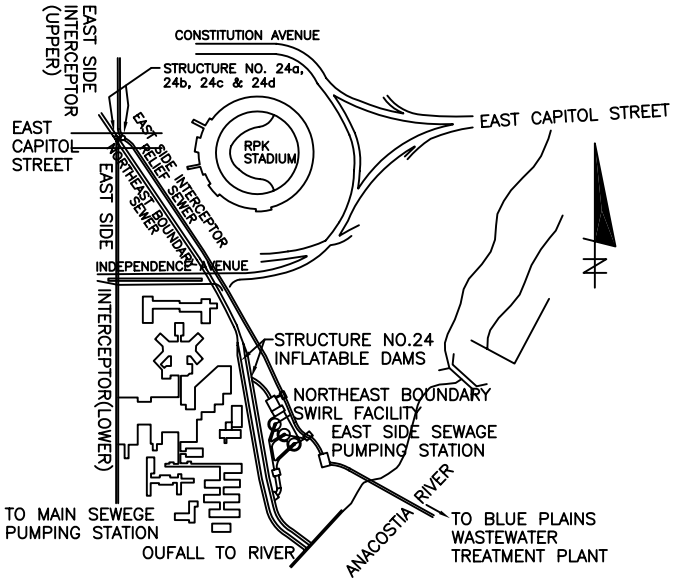
This structure is a connection between the 4 ft. 6 inch East Side Interceptor which discharges into the 48 inch East Side Relief Sewer for conveyance to the East Side Pumping Station, and the 48 inch continuation of the East Side Interceptor which conveys combined sewage flow to the Main Sewage Pumping Station. The significance of this structure is that it can divert flow from the East Side Pumping Station.

STRUCTURE NO. 24c

This structure is a gate control chamber controlling flow from the Northeast Boundary Sewer. Manual gate should always be closed and electrical gate open.

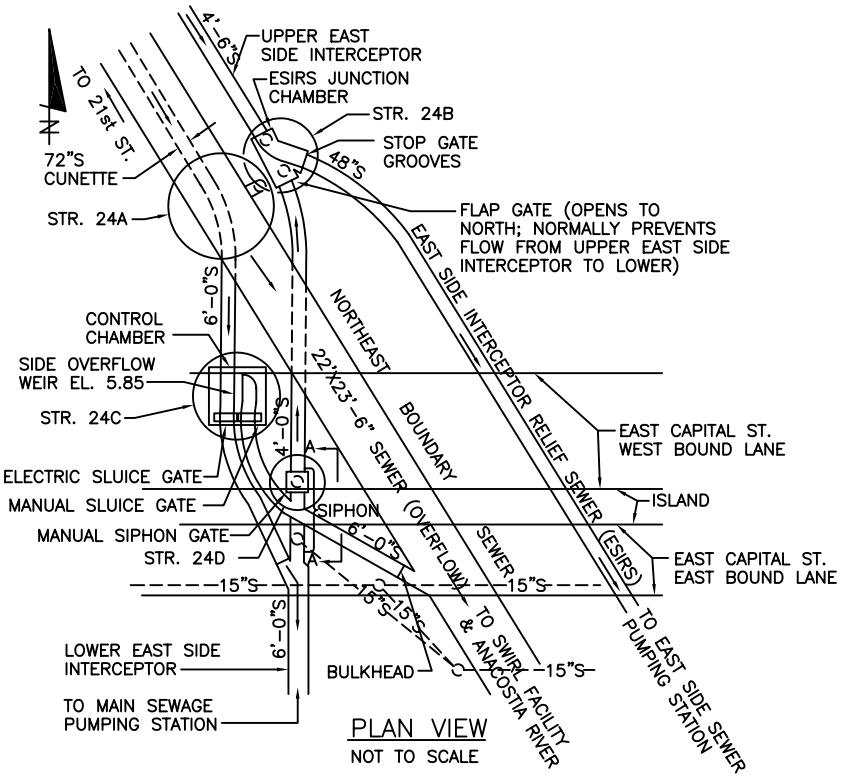
STRUCTURE NO. 24d

This structure is a piggy–back sluice gate controlling flow into the East Side Interceptor Siphon. For Section A–A (Siphon Profile), the arrows depict diversion flow routing, there is normally no flow in the siphon.



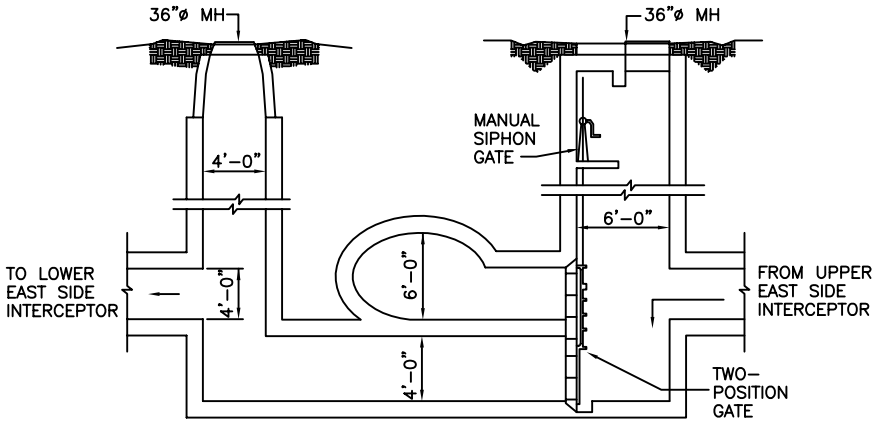
LOCATION PLAN–INFLATABLE DAMS ON NORTHEAST BOUNDARY SEWER OVERFLOW

NOT TO SCALE



PLAN VIEW

NOT TO SCALE



SECTION A–A (SIPHON PROFILE)

NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
24a, 24b, 24c & 24d

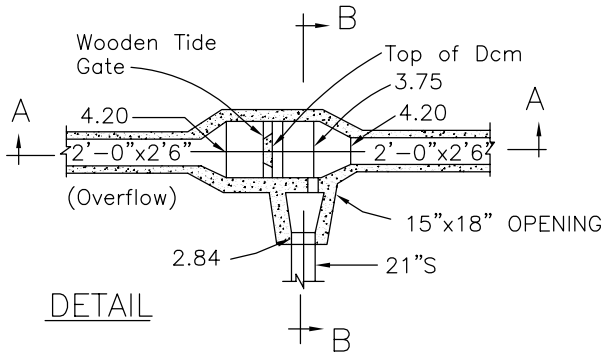
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-24A-24B-24C-24D 1:1 04/23/04 11:45 GH-G

STRUCTURE NO. 28, 21st Street and Constitution Avenue, N.W.

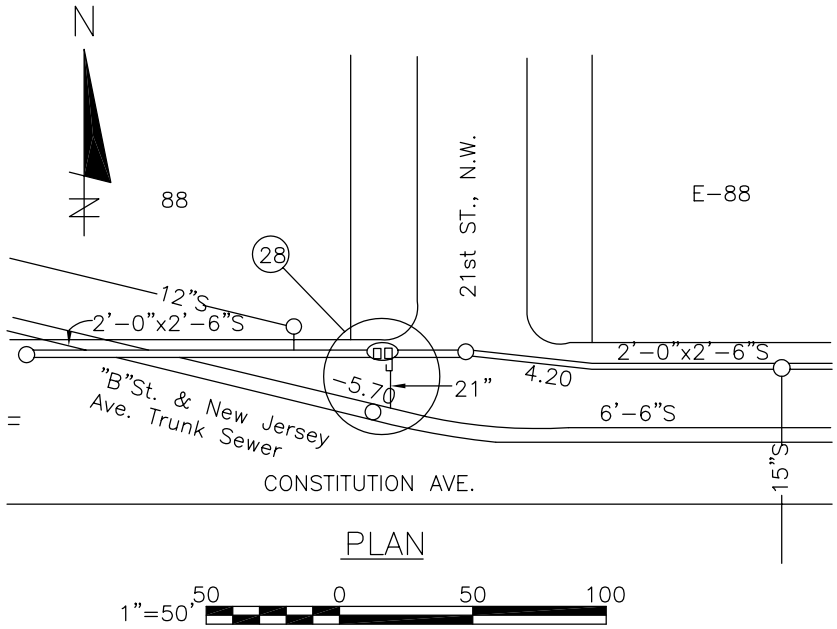
This structure has a sump–type regulator, the Storm Overflow is formed by a concrete sill of a tide–gate structure combined with a depressed invert. A 2–ft. by 2–ft. 6–in. Combined Sewer enters the structure. Dry Weather Flow passes through A 15"x18" opening which goes through a 12–inch wall and discharges into a small chamber where the flow is collected into a 21–inch Intercepting Connection discharging into the B Street–New Jersey Avenue Trunk Sewer.

The 2–ft. by 2–ft. 6–in. Overflow Line discharges into the Easby Point Trunk Sewer, and then to the Potomac River.

There is a Tide Gate on the Overflow Line.

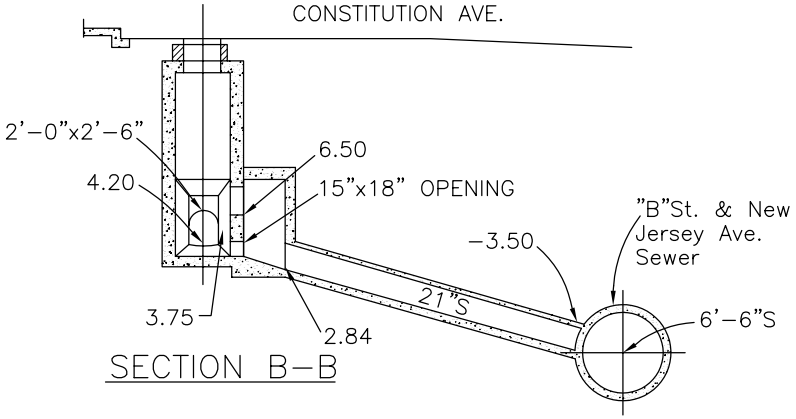


DETAIL



PLAN

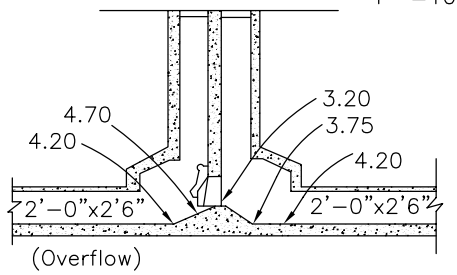
1"=50' 50 0 50 100



SECTION B–B

DETAIL

1" =10' 10 0 10



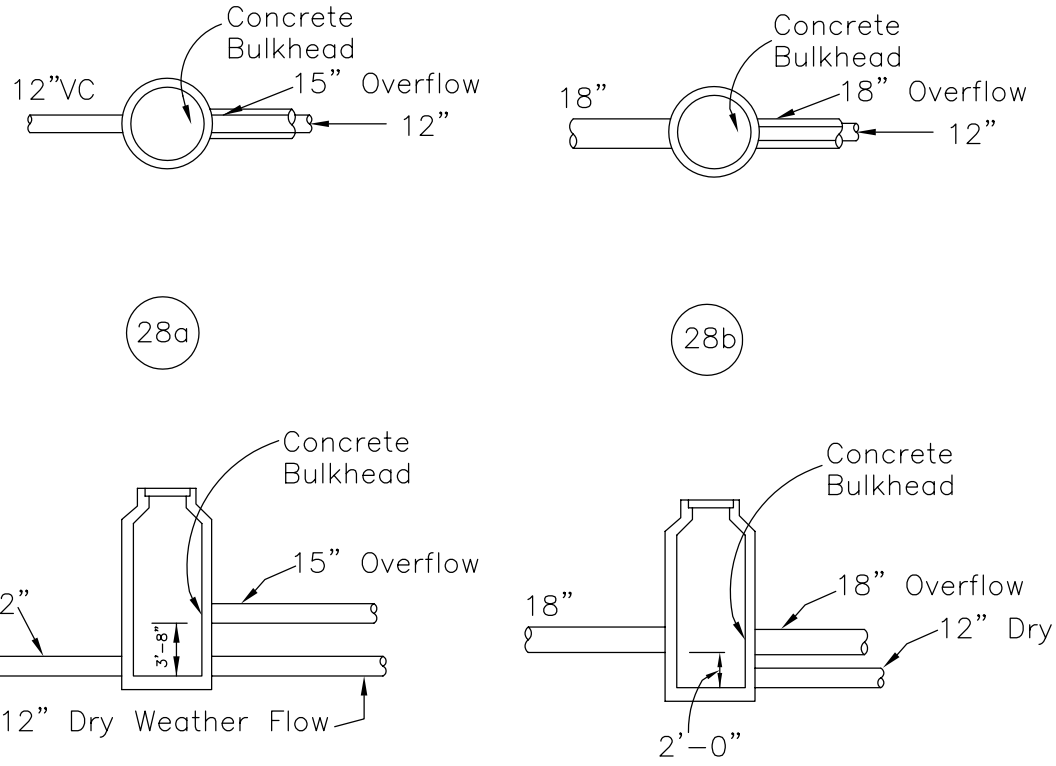
SECTION A–A

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 020

STRUCTURE NO. 28

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–28 1:1 04/23/04 11:50 GH–G

THIS OVERFLOW HAS BEEN ELIMINATED BASED ON,
SEPTEMBER 22,1999, FIELD INSPECTION.
THE OVERFLOW CONDUITS WERE BULKHEADED.
THIS STRUCTURE IS NO LONGER APPLICABLE



DETAILS

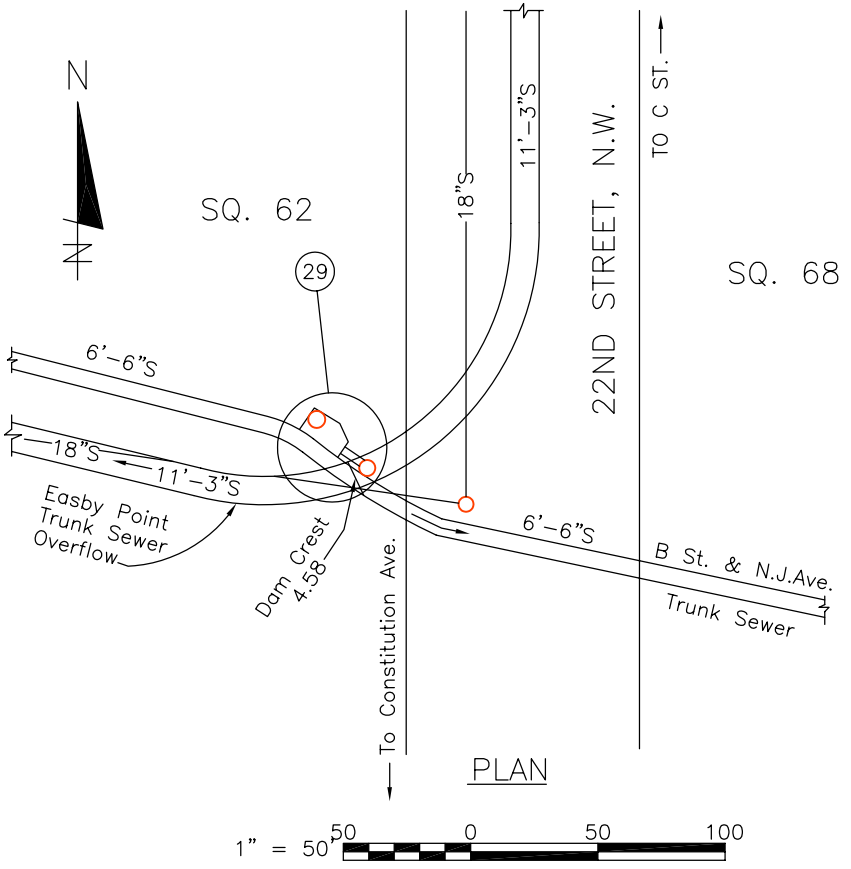
1" =10' 10 0 10 20

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
28a & 28b

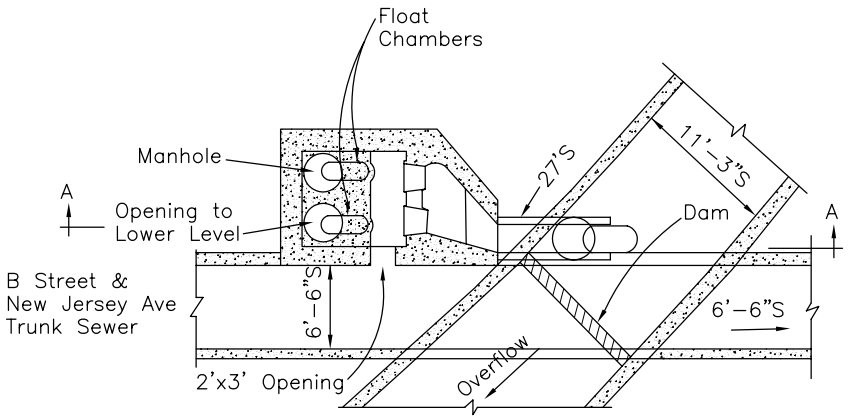
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-28A-28B 1:1 04/23/04 11:56 GH-G

STRUCTURE NO. 29, 22nd Street, North of Constitution Avenue N.W. The 11'–3" Easby Point Trunk Sewer is restricted by a dam with crest elevation 4.58 so that normal Dry Weather Flows are directed into the 6'–6" B Street – New Jersey Avenue Trunk Sewer through a 27" dia. sewer connection. Overflow over the dam are dischaged into the Potomac River. After downstream interception at Structure No. 34 (site of another inflatable dam) the Easby Point Trunk Sewer overflows into the Potomac River. This structure was formerly a float type regulator with a float mechanisam removed. Now it is a sump type regulator.

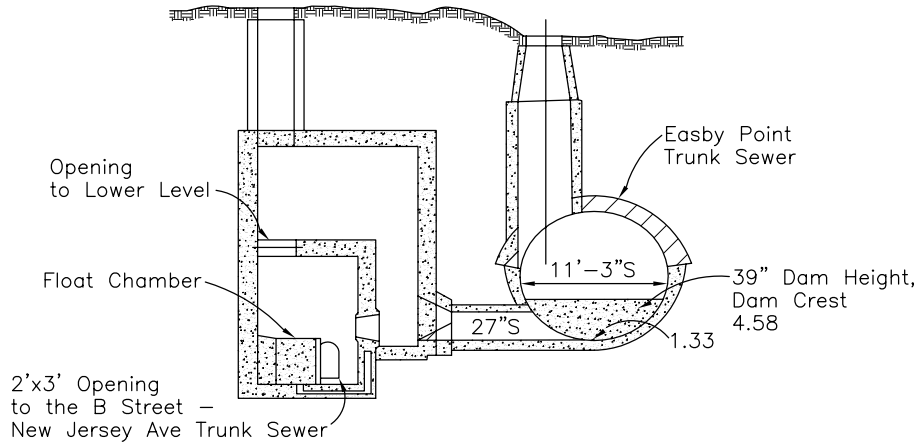


PLAN

1" = 50' 50 0 50 100



DETAIL



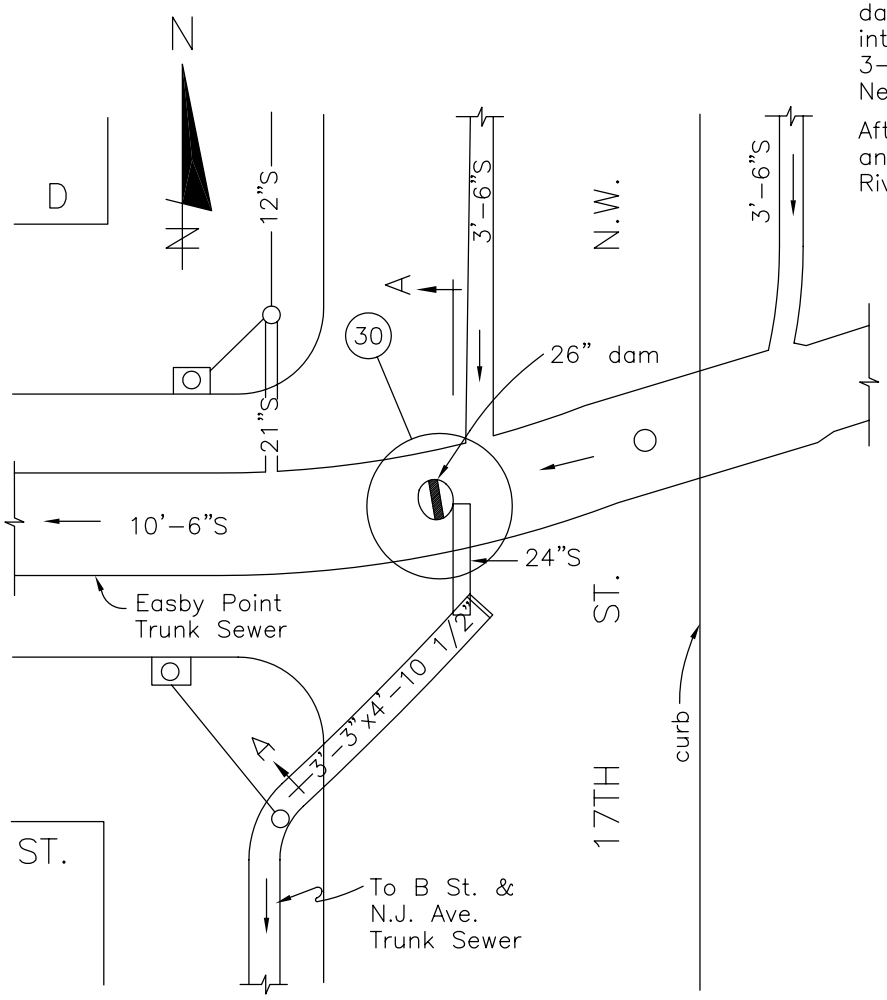
SECTION A–A

1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 020

STRUCTURE NO. 29

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–29 1:1 04/23/04 12:01 GH–G

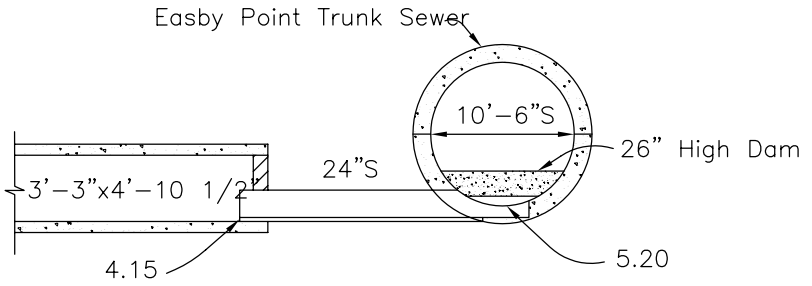


PLAN

1" = 20' 20 0 20 40

STRUCTURE NO. 30, 17th and D Streets, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam in the 10-ft, 6-in. Easby Point Trunk Sewer. There is a 24-in. intercepting connection which conveys the Dry-Weather Flow to the 3-ft. 3-in. by 4-ft. 10 1/2 in. Sewer which in turn discharges to the B Street-New Jersey Avenue Trunk Sewer.

After subsequent interception points downstream (Structure Nos. 29 and 34), the Easby Point Trunk Sewer ultimately overflows to the Potomac River.



SECTION A-A

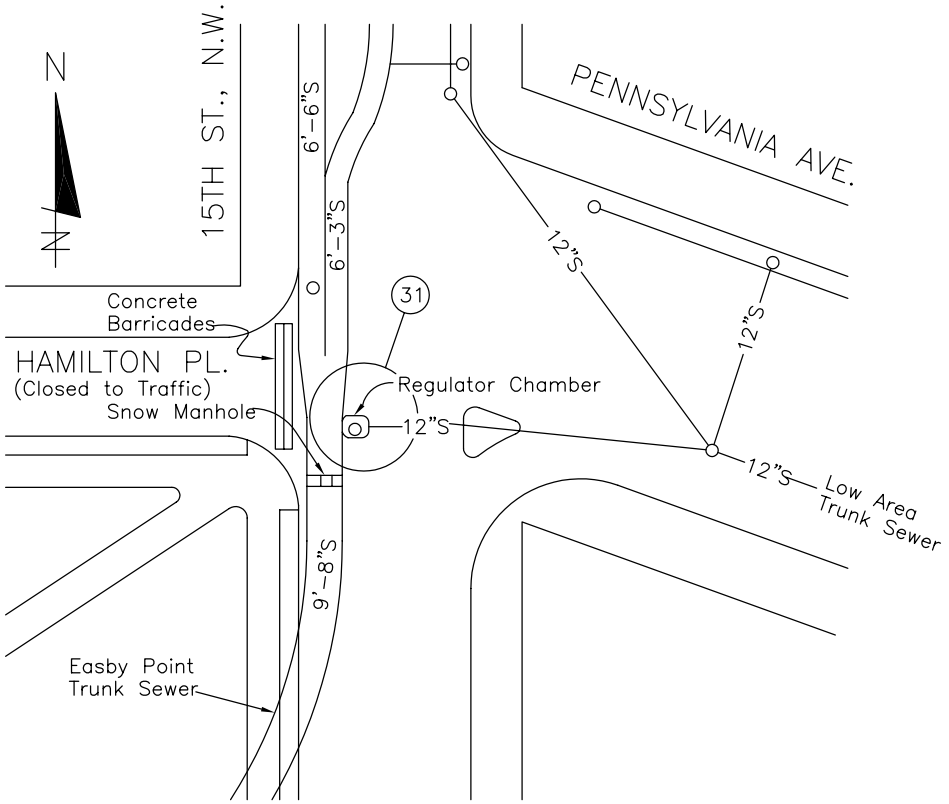
1" = 10' 10 0 10 20

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 020

STRUCTURE NO.
30

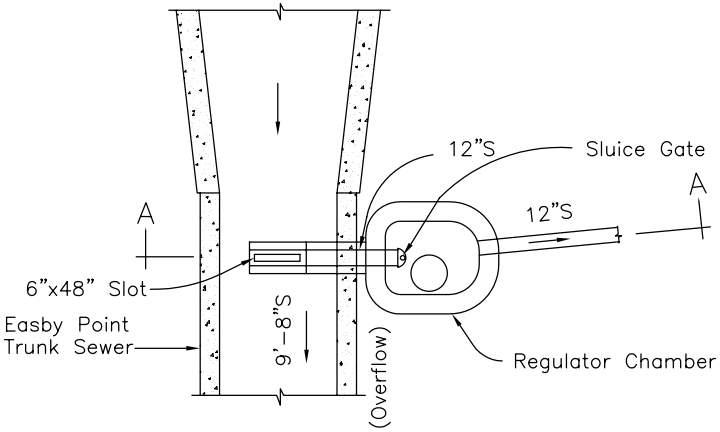
STRUCTURE NO. 31, 15th Street and Pennsylvania Ave., N.W.
This structure has a slot–type regulator. The Storm Overflow is formed by a 6–in. by 48–in. depressed slot. A 6–ft. 6–in. and 6–ft. 3–in. Combined Sewer enters the Diversion Structure and there is a slot in the invert which collects the Dry–Weather Flow which is then conveyed through a 12–in. intercepting connection to the 12–in. Low Area Trunk Sewer. There is a sluice gate at the outlet end of the intercepting connection.

The 9'–8" Easby Point Trunk Sewer ultimately overflows to the Potomac River after several subsequent interception points (Structure Nos. 29, 30 and 34). (The control sluice gate is maintained in the closed position.)

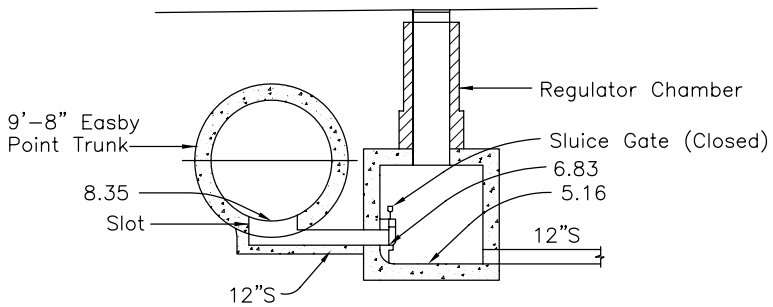


PLAN

1" = 50' 50 0 50 100



DETAIL



SECTION A–A

1" =10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 020

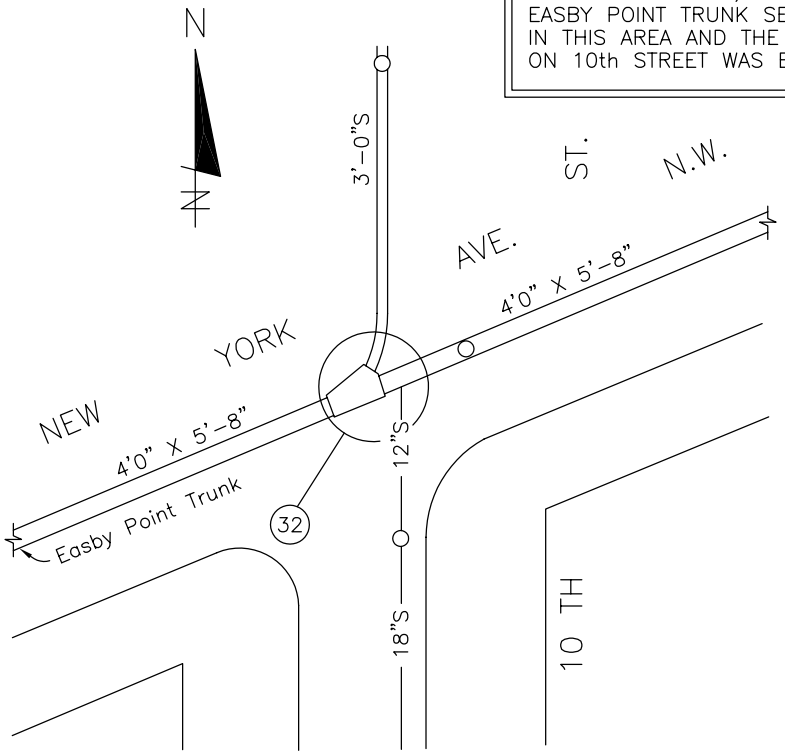
STRUCTURE NO.
31

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–31 1:1 04/23/04 12:10 GH–G

STRUCTURE NO.32, Tenth Street and New York Avenue, N.W. This structure has a sump–type regulator. The Storm Overflow is formed by a masonry dam in the outlet end of a Junction Chamber. 4–ft. 6–in. and 3–ft. Combined Sewers enter the structure and a 12–in. intercepting connection conveys the Dry–Weather Flow through a series of sewers into the B Street–New Jersey Avenue Trunk Sewer.

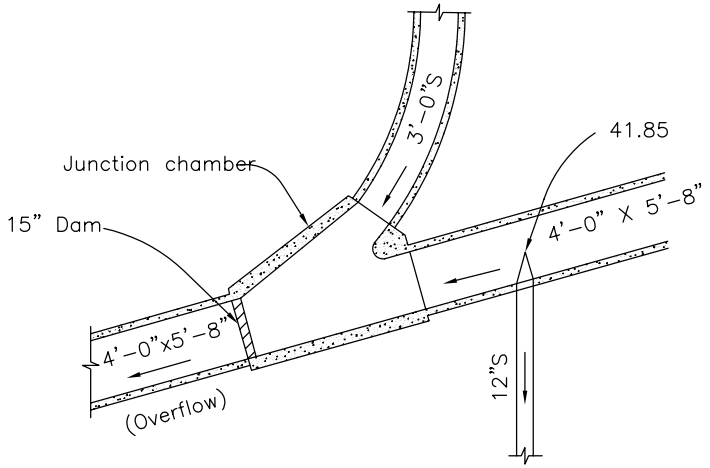
The 4'6" Easby Point Trunk Sewer ultimately overflows to the Potomac River after several subseqent interception points (Structure Nos. 29, 30 and 34.)

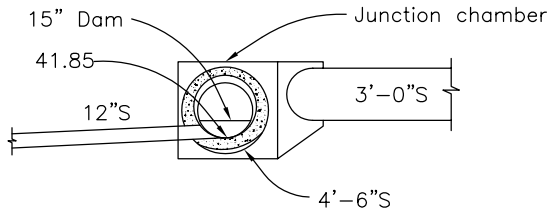
THIS STRUCTURE HAS BEEN ELIMINATED BASED ON SEPTEMBER 22, 1999, FIELD INSPECTION. THE EASBY POINT TRUNK SEWER WAS RECONSTRUCTED IN THIS AREA AND THE 12 INCH DIVERSION SEWER ON 10th STREET WAS ELIMINATED.



PLAN

1" = 30' 30 0 30 60





DETAIL

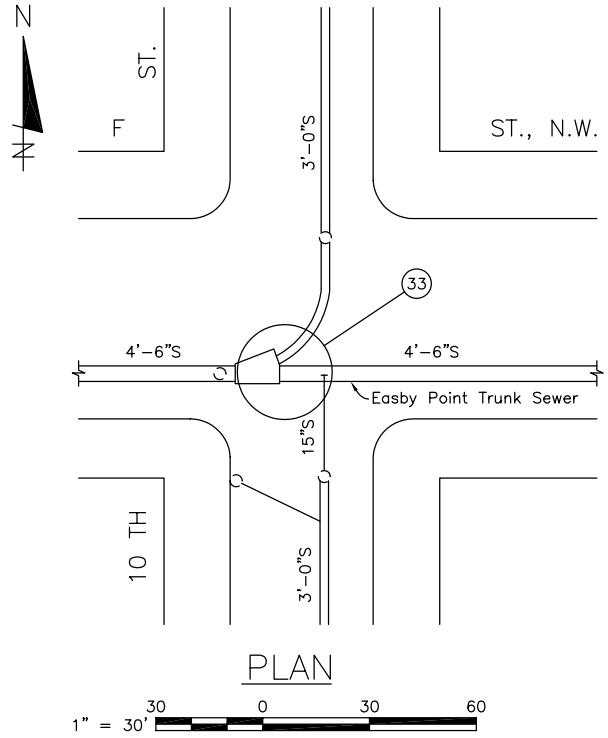
1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO. 32

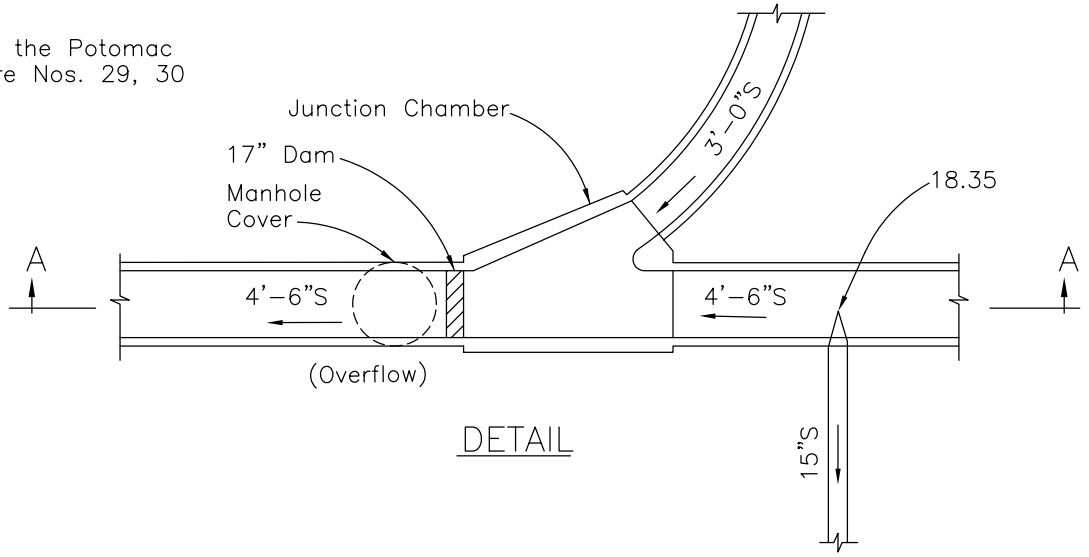
STRUCTURE NO.33, 10th and F Streets, N.W. This structure has a sump–type regulator. The Storm Overflow is formed by a masonry dam in the outlet end of a Junction Chamber. A 4–ft. 6–in. and 3–ft. Combined Sewers enter the structure and a 15–in. intercepting connection conveys the Dry–Weather Flow through a series of sewers into the B Street–New Jersey Avenue Trunk Sewer.

The 4'6" Easby Point Trunk Sewer ultimately overflows to the Potomac River after several subseqent interception points (Structure Nos. 29, 30 and 34.)

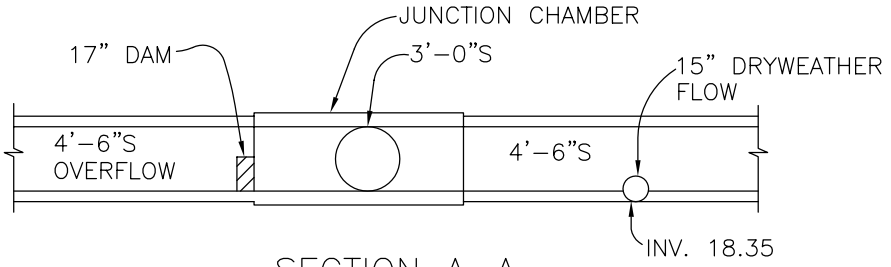


PLAN

1" = 30' 30 0 30 60



DETAIL



SECTION A–A

1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 020

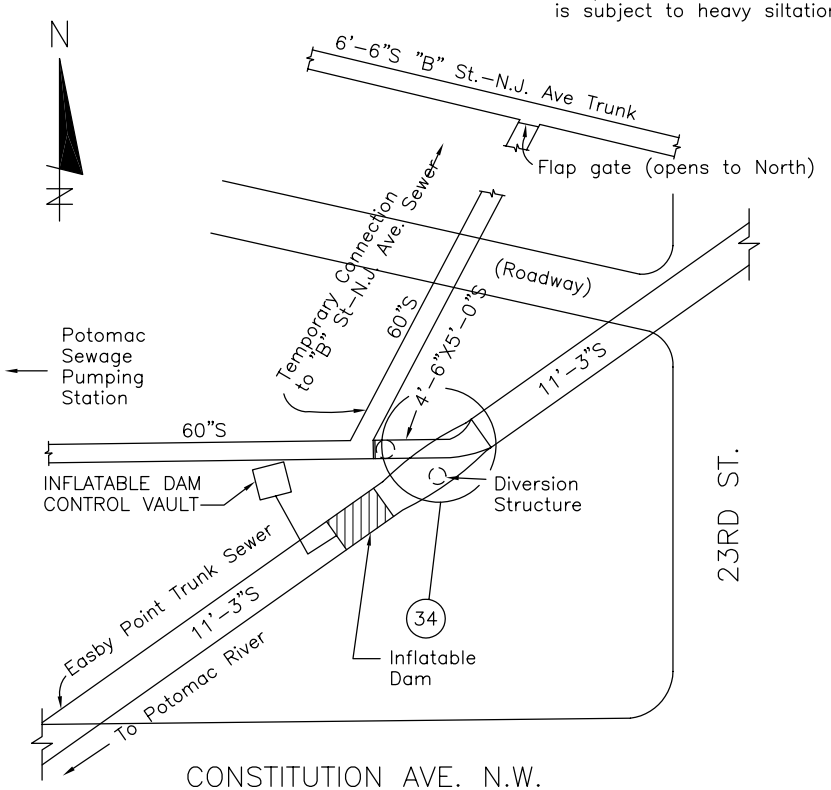
STRUCTURE NO. 33

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–33 1:1 04/23/04 12:14 GH–G

STRUCTURE NO. 34 – 23rd Street, North of Constitution Avenue N.W. This structure has a cunette–type regulator and an inflatable dam which directs flow into a 4'–6" X 5'–0" Combined Sewer which discharges into the Wet Well of the Potomac Sewage Pumping Station. Flow up to the capacity of the down stream Combined Sewer network is thus delivered for treatment. Extreme storm flows are discharged to the Potomac River through the 11 ft. 3 inch Easby Point Trunk Sewer.

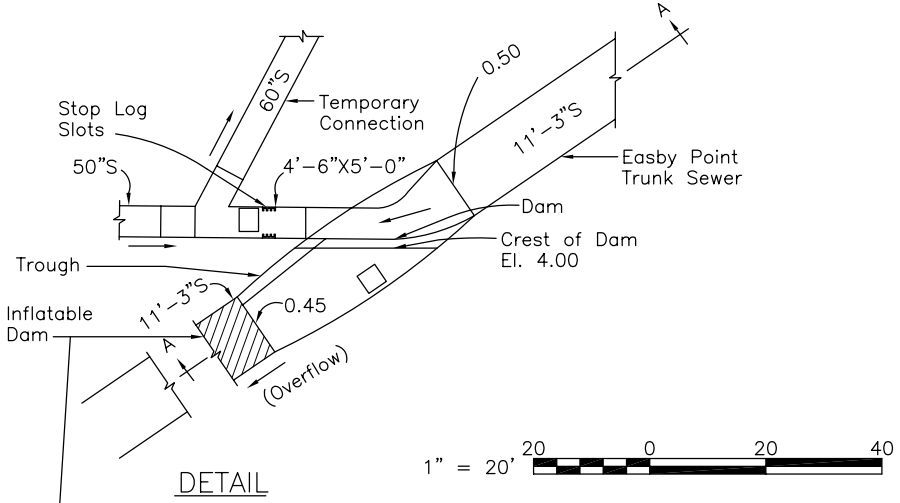
Immediately west of Structure No. 34 on the connection to the Potomac Pumping Station is another 60 inch sewer with a flap gate that opens into the B St.–New Jersey Avenue Sewer. This was originally built for temporary flow routing during construction at the Potomac Sewage Pumping Station and is no longer in use.

No permanent bulkhead has been installed in the line, however, it is subject to heavy siltation.



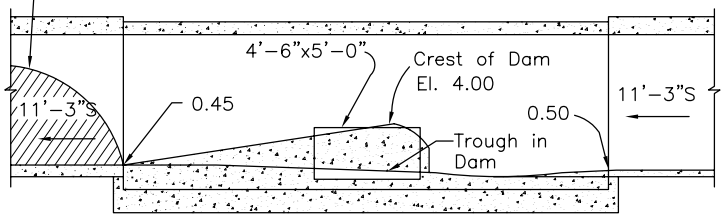
PLAN

1" = 40' 40 0 40 80



DETAIL

1" = 20' 20 0 20 40



SECTION A–A

1" = 10' 10 0 10 20

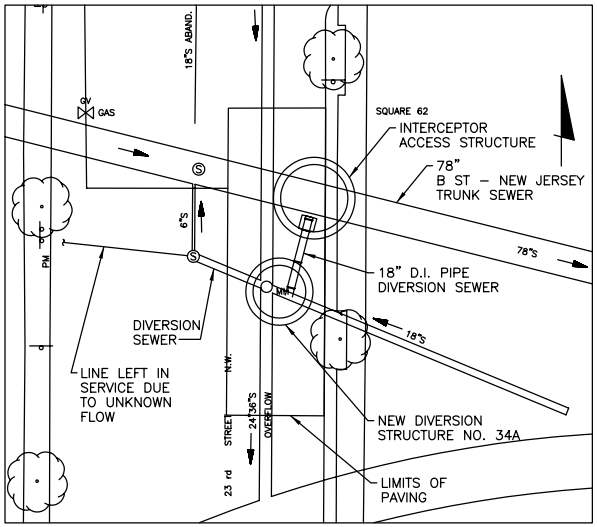
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 020

STRUCTURE NO. 34

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-34 1:1 04/23/04 12:15 GH-G

STRUCTURE NO. 34a, 23rd STREET NEAR C STREET NW

Dry Weather Flow enters the Structure through an 18–inch and 2–ft by 3–ft Sewer and is diverted to the B Street – New Jersey sewer. Overflow spills over a Weir to the Easby Point Trunk Sewer, which ultimately discharges to the Potomac River after one subsequent Interception Point (Structure No. 34).



LOCATION PLAN

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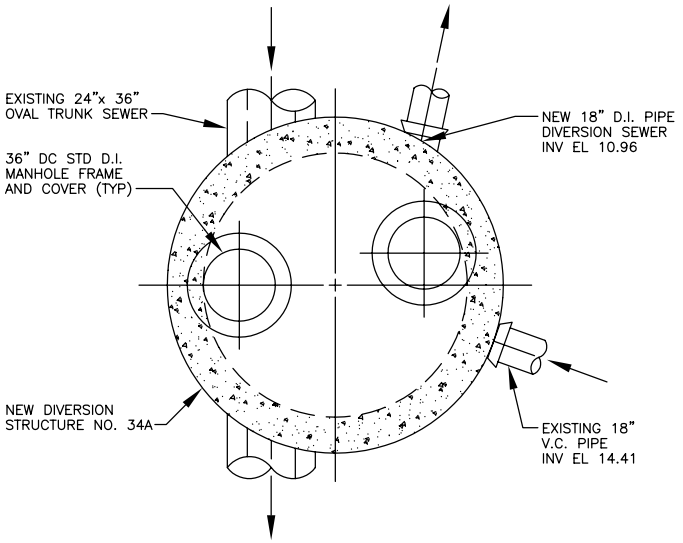
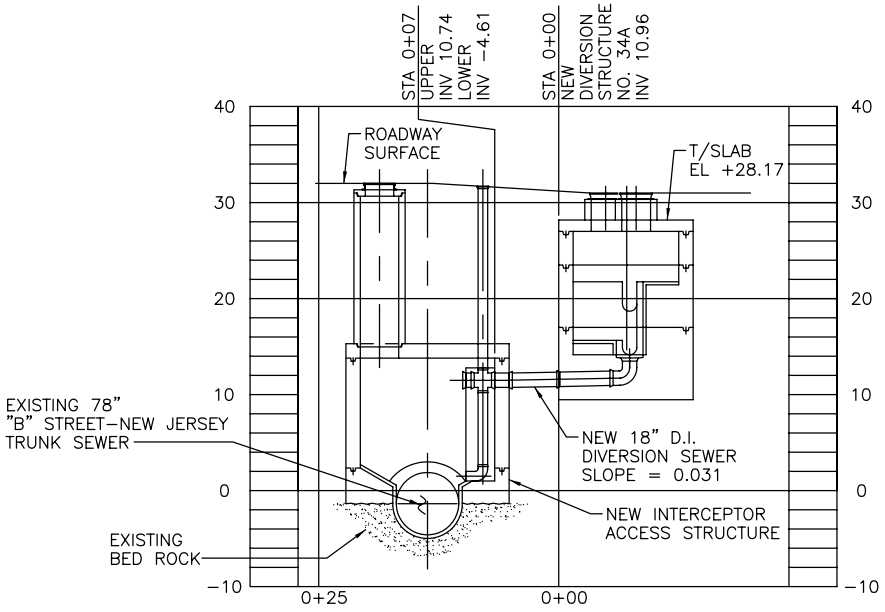


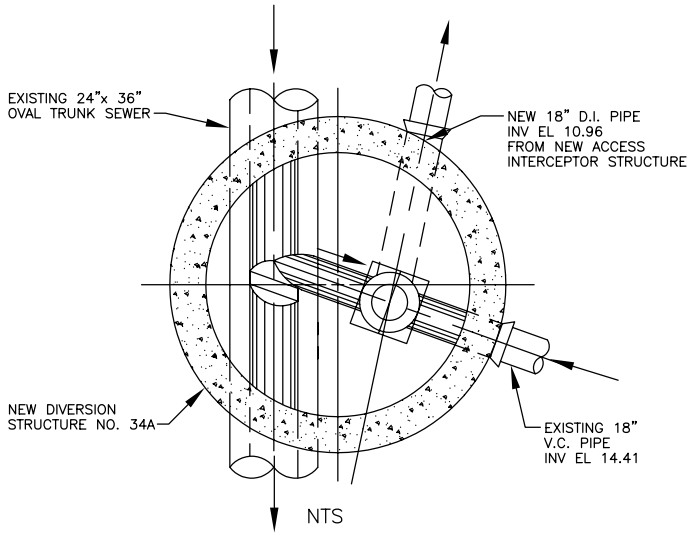
STR–34A–PLAN

NTS



PROFILE

NTS



NTS

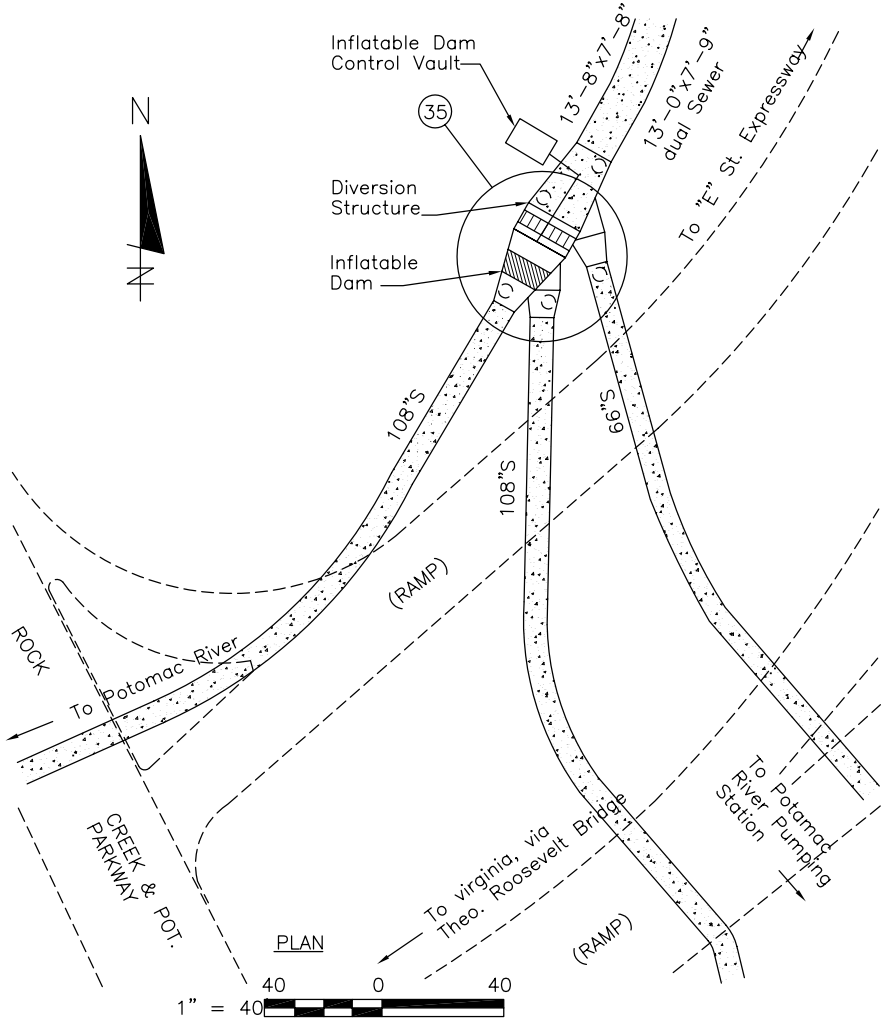
STR. 34A–SECTIONAL PLAN

REVISED BY: EPMC–3A
REVISED DATE: JANUARY 2006
ASSOCIATED NPDES OUTFALL # 020

STRUCTURE NO. 34a

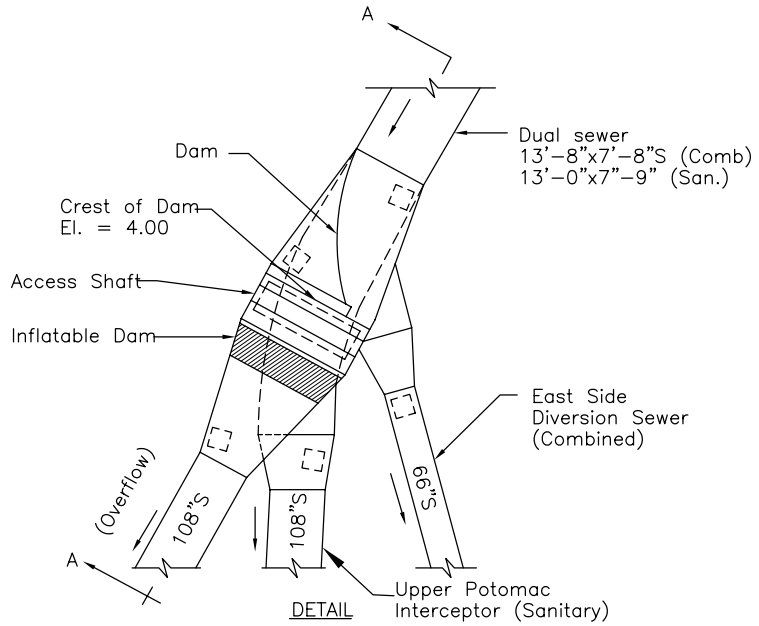
FILE: H:\1163\MAST PLAN\TECH MEMO\WASA STRUCTURE BOOK\CURRENT\STRUCTURE\STR–34a.DWG

STRUCTURE NO. 35 Rock Creek and Potomac Parkway Northeast of Roosvelt Bridge, N.W. This structure has a sump–type regulator, a masonary dam and an inflatable dam all of which contain the Combined Sewage flow within the 13 ft. 8 inch by 7 ft. 8 inch Combined Sewer for discharge into the 66 inch diversion connection which conveys the flow to the Potomac Pumping Station. Extreme storm flow is discharged into the Potomac River through a 108 inch Overflow Sewer. (See Structure No. 35a for location schematic)



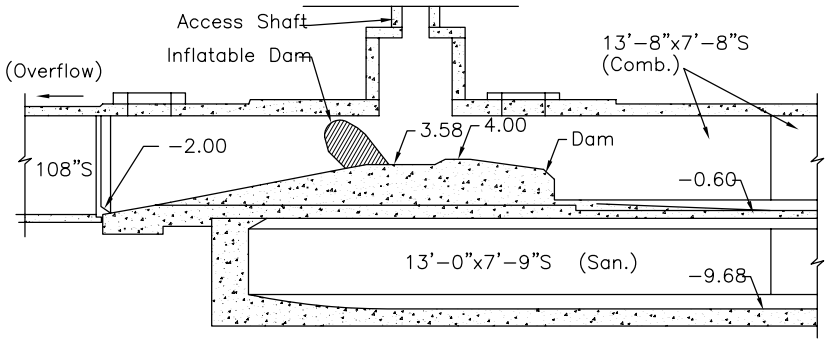
PLAN

1" = 40' (40 0 40)



DETAIL

1" = 20' (20 0 20 40)



SECTION A–A

1" = 10' (10 0 10 20)

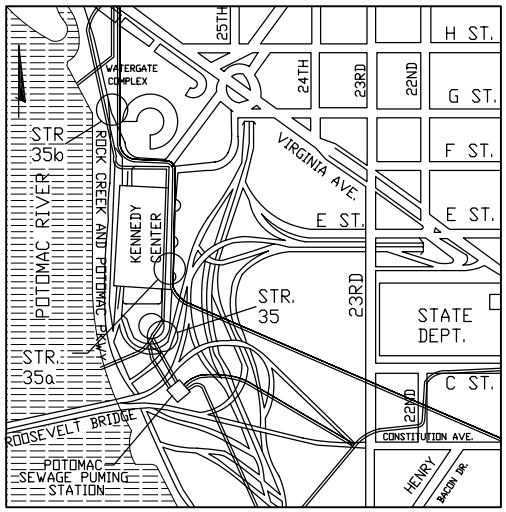
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 021

STRUCTURE NO.
35

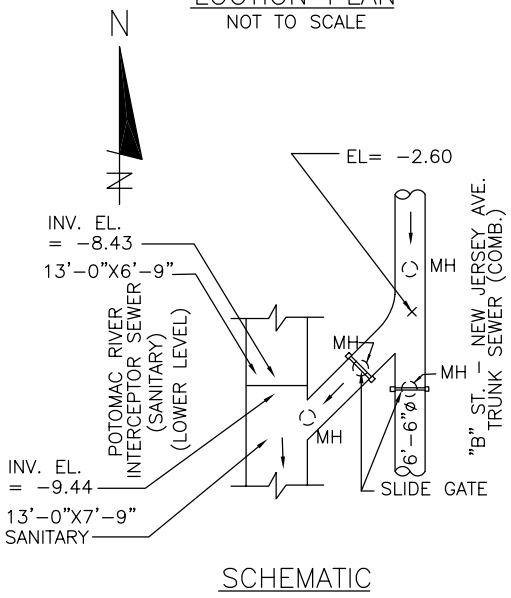
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–35 1:1 04/23/04 12:18 GH–G

35a KENNEDY CENTER GARAGE (FORMERLY 26TH & D ST. N.W.)

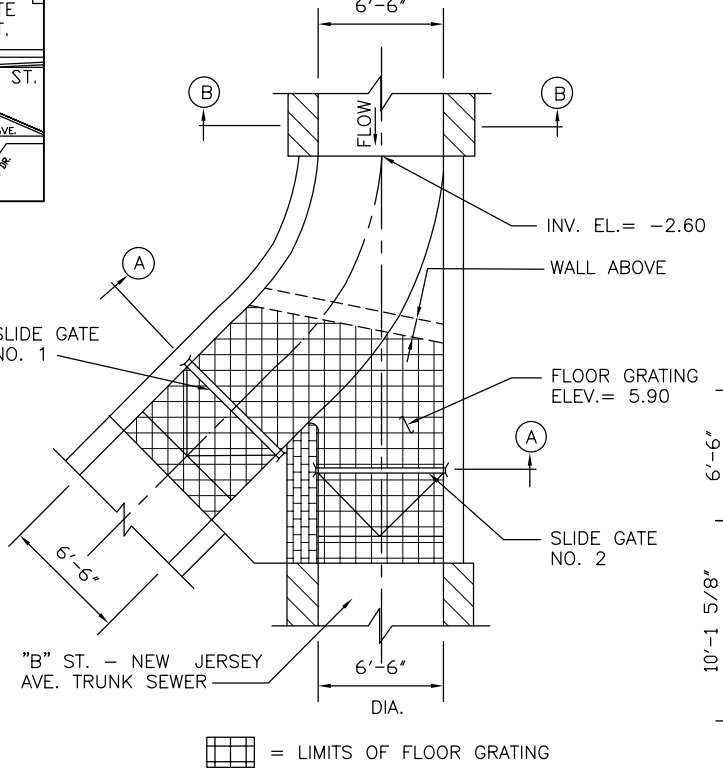
At this location there are two aluminium Slide Gates which enable control of flow in the "B" St. – New Jersey Avenue Trunk Sewer (which is a continuation of the Rock Creek Main Interceptor). Flow may continue in the Trunk Sewer or may be diverted to the Potomac River Interceptor Sewer (lower level of hte "piggy–back" Sewer). Access is via manholes in the Kennedy Center garage floor.



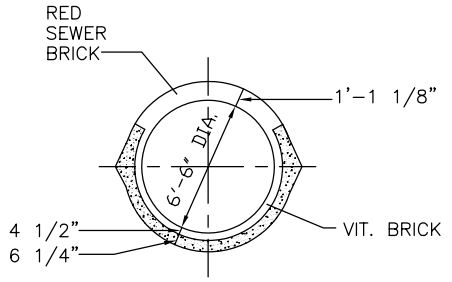
LOCTION PLAN
NOT TO SCALE



SCHEMATIC



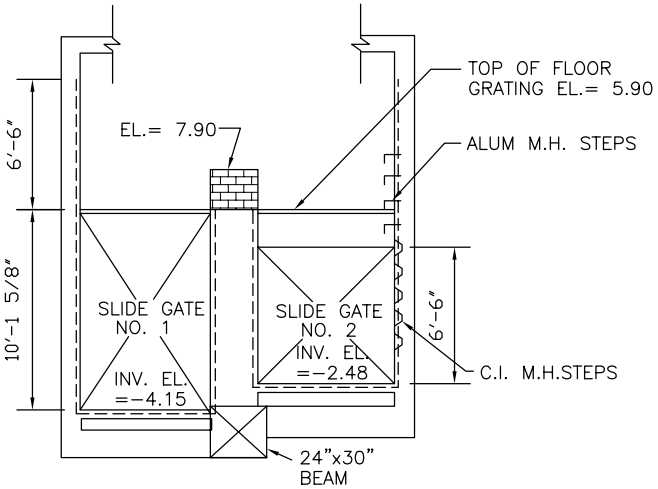
SECTIONAL PLAN



SECTION B–B

NOTE:

1. BOTH GATES FOUND TO BE OPEN APRIL 23, 1992
2. ACCESS TO SLIDE GATES IS VIA TWO MANHOLES IN THE KENNEDY CENTER GARAGE. THERE ARE TWO OVERHEAD EYEBOLTS IN THE GARAGE CEILING TO FACILITATE SLIDE GATE OPERATION.



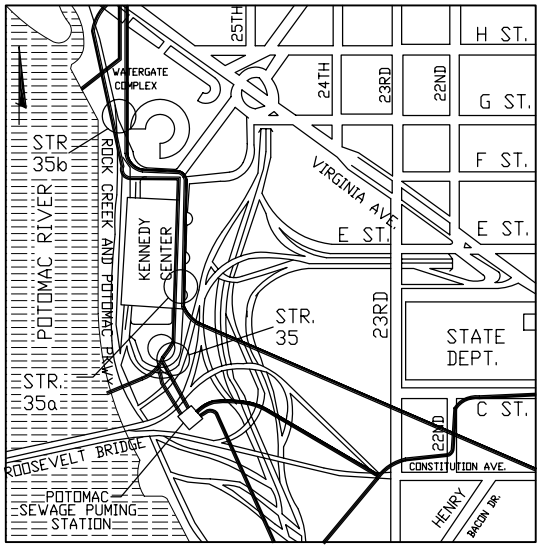
SECTION A–A

KENNEDY CENTER GARAGE
NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
35a

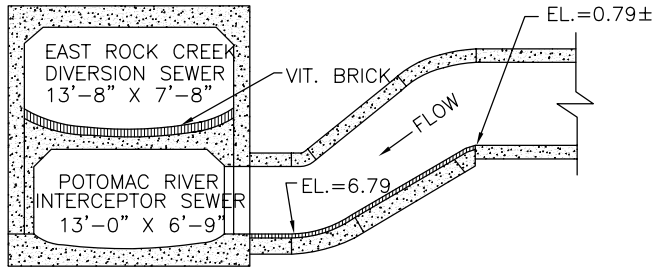
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–35A 1:1 04/23/04 12:21 GH–G



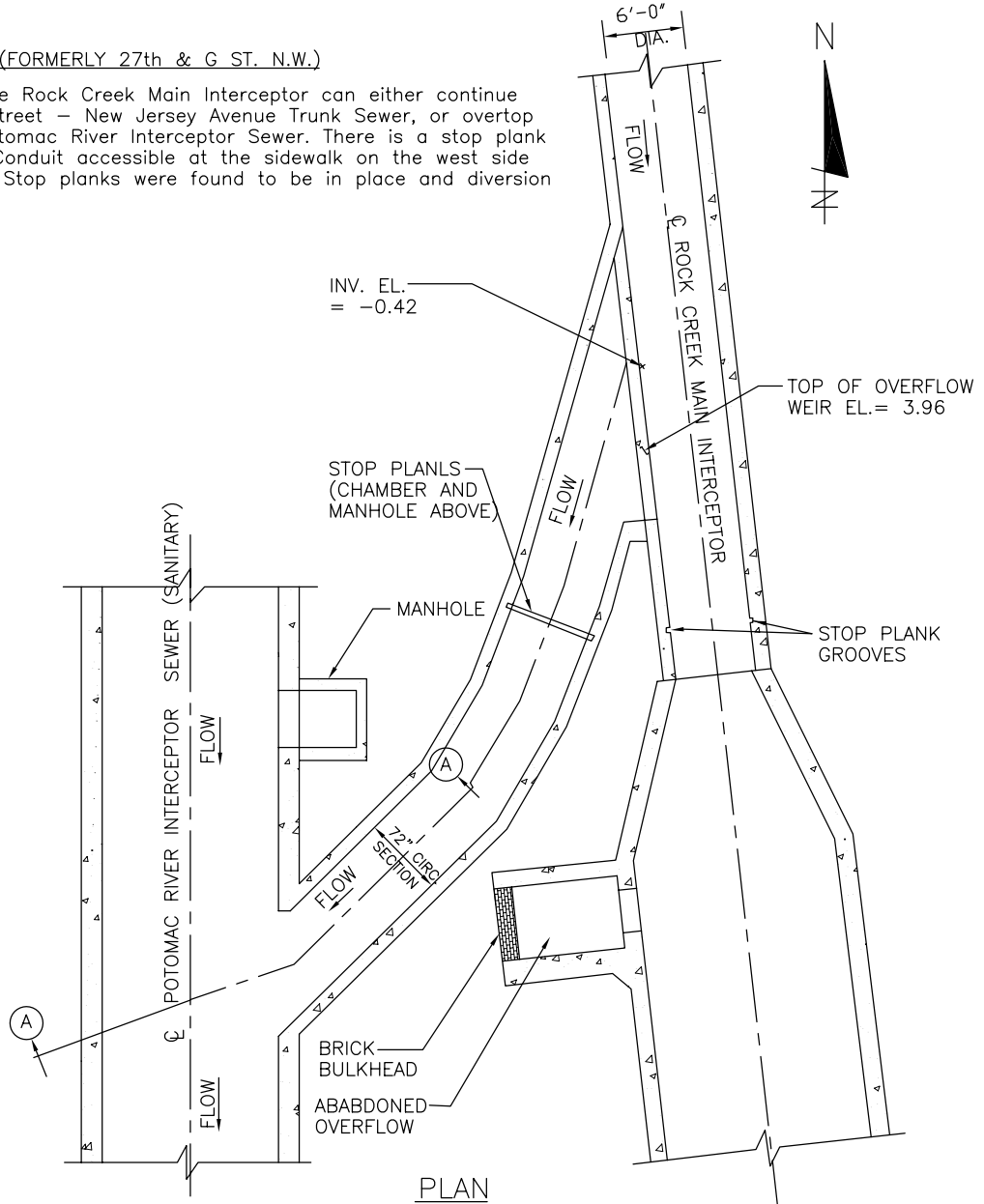
LOCTION PLAN
NOT TO SCALE

35b WATERGATE DIVERSION (FORMERLY 27th & G ST. N.W.)

At this location, Flow in the Rock Creek Main Interceptor can either continue downstream into the "B" Street – New Jersey Avenue Trunk Sewer, or overtop a Weir to flow into the Potomac River Interceptor Sewer. There is a stop plank Chamber in the Diversion Conduit accessible at the sidewalk on the west side of the Watergate complex. Stop planks were found to be in place and diversion closed in April 1992.



SECTION A–A



PLAN

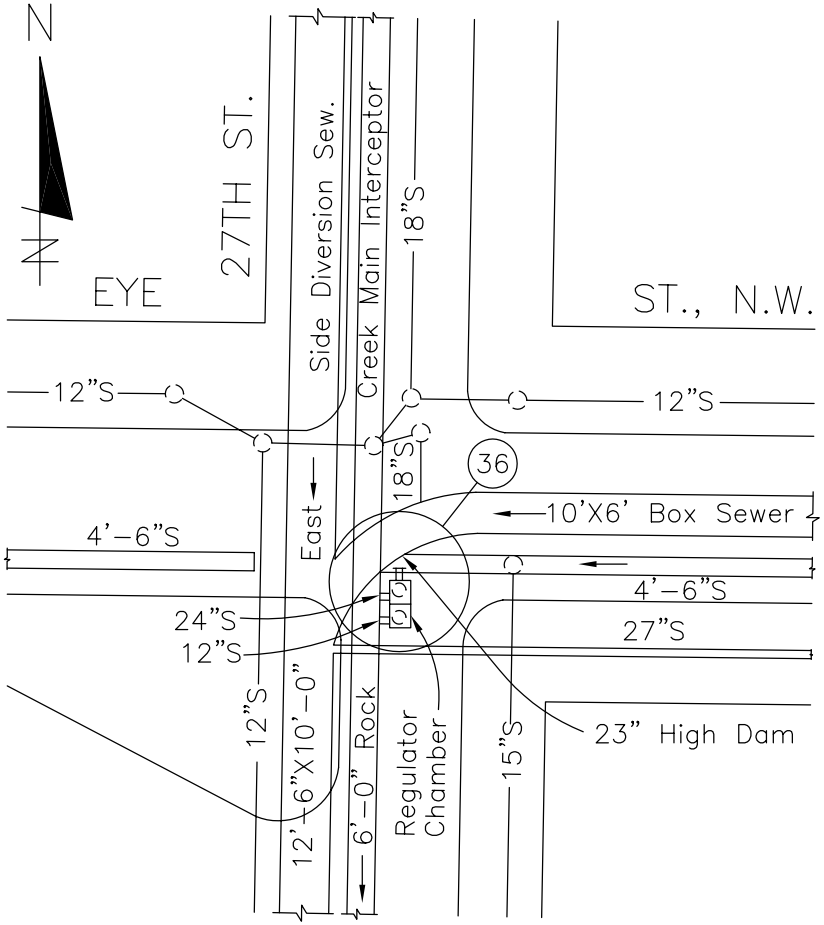
WATERGATE DIVERSION
NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
35b

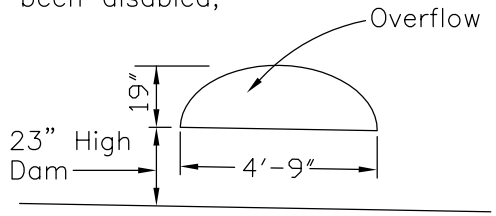
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-35B 1:1 04/23/04 12:22 GH-G

STRUCTURE NO. 36. 27th and I Streets, N.W. This structure diverts normal Dry Weather Flow from the 4'–6" Combined Sewer in Eye Street N.W. through a 2'–6"x 3'–0" Opening and a 24" dia sewer into the 6'–0" Rock Creek Main Interceptor. Storm Flows overflow into the Rock Creek Diversion Sewer into the Potomac River.
This was formerly a float type regulator. The float devise has been disabled, it is now a sump type regulator.

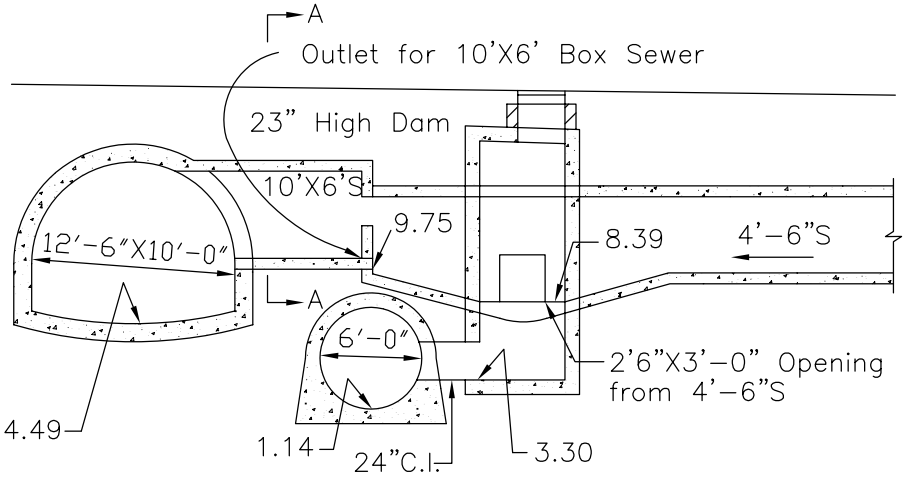


PLAN

1" = 40' 40 0 40 80



SECTION A–A



DETAIL

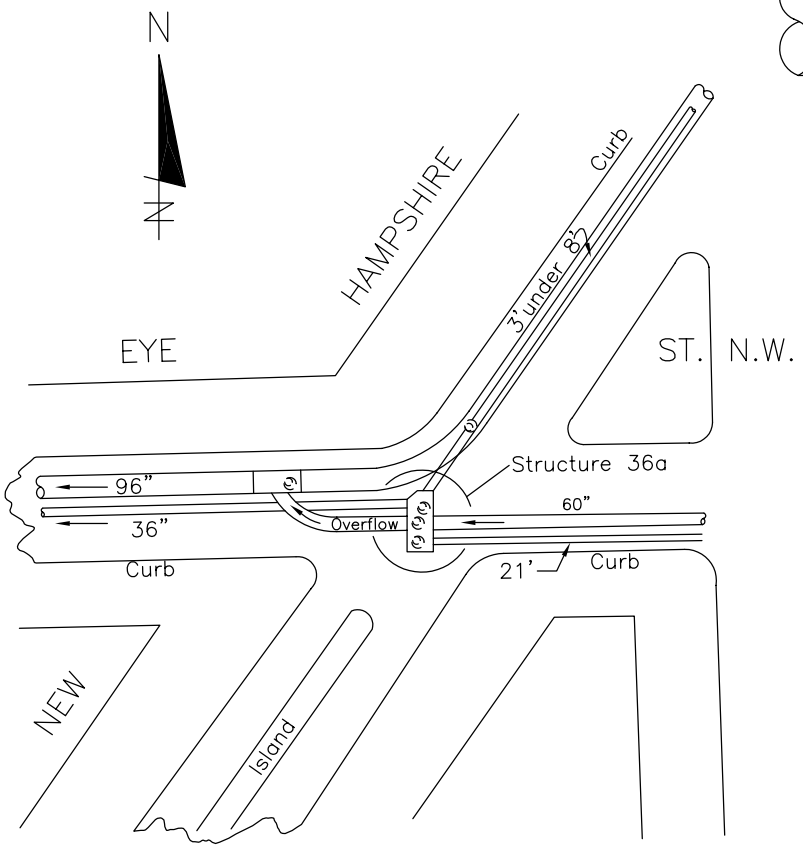
1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 022

STRUCTURE NO.
36

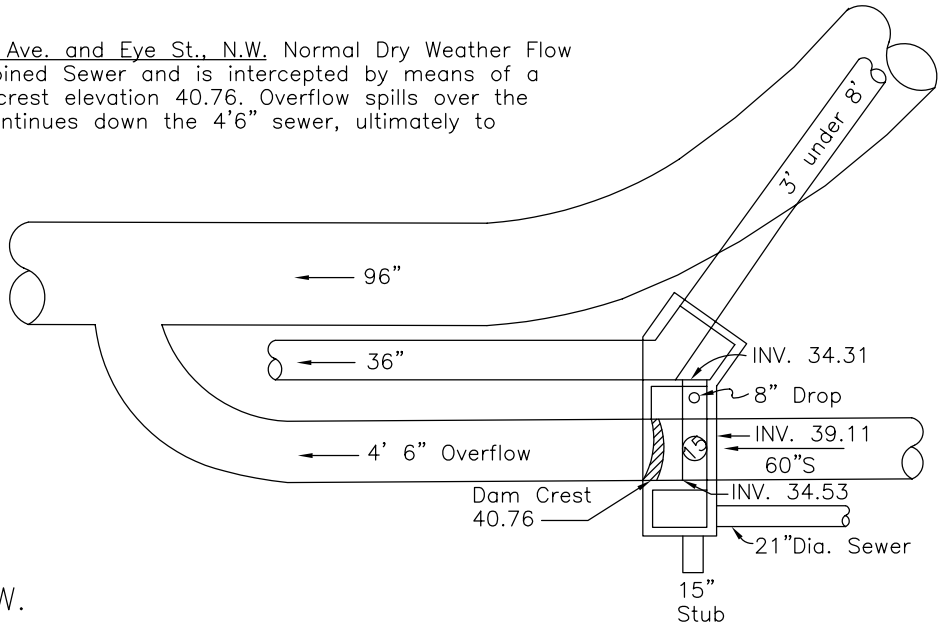
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-36 1:1 04/23/04 12:50 GH-G

STRUCTURE NO. 36a, New Hampshire Ave. and Eye St., N.W. Normal Dry Weather Flow enters the structure via a 4'6" Combined Sewer and is intercepted by means of a 15" sump and contained by a dam crest elevation 40.76. Overflow spills over the downstream control weir dam and continues down the 4'6" sewer, ultimately to discharge to the Potomac River.

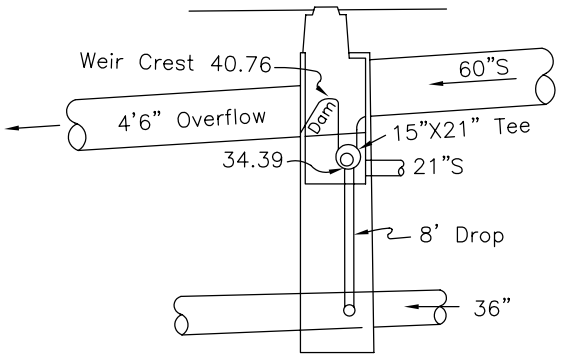


PLAN

1" = 100' 100 0 100 200



DETAIL



SECTION A–A

1" = 10' 10 0 10 20

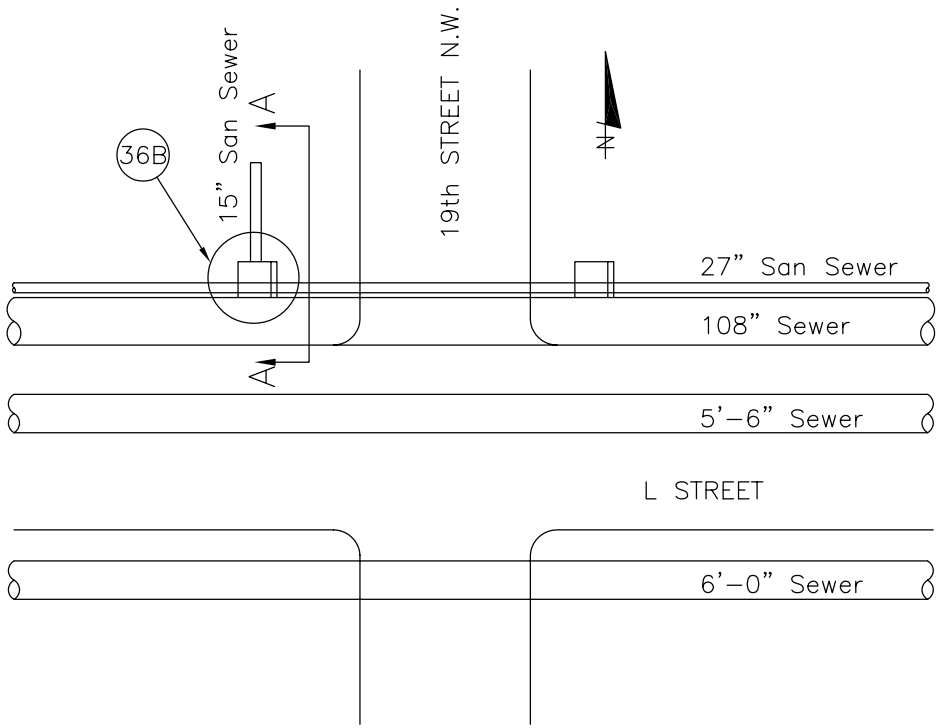
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 022

STRUCTURE NO.
36a

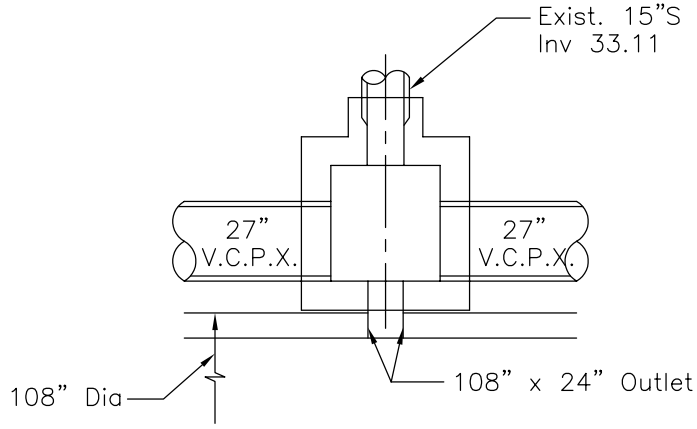
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-36A 1:1 04/23/04 12:53 GH-G

STRUCTURE NO. 36B – 19th & L STREET N.W.

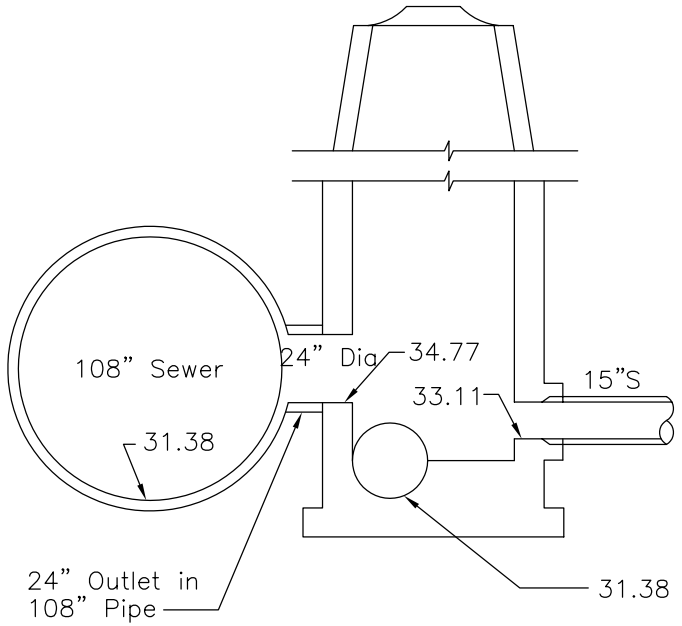
This structure is a relief for the 27–inch Sanitary Sewer just north of L Street. Relief is through a 24–inch pipe connecting to a tee in the 108–inch Slash Run Relief Sewer. The relief is 3.39 feet above the invert of the 27–inch sewer.



PLAN
NOT TO SCALE



PLAN AT FLOW LINE
STRUCTURE NO. 36B
NOT TO SCALE

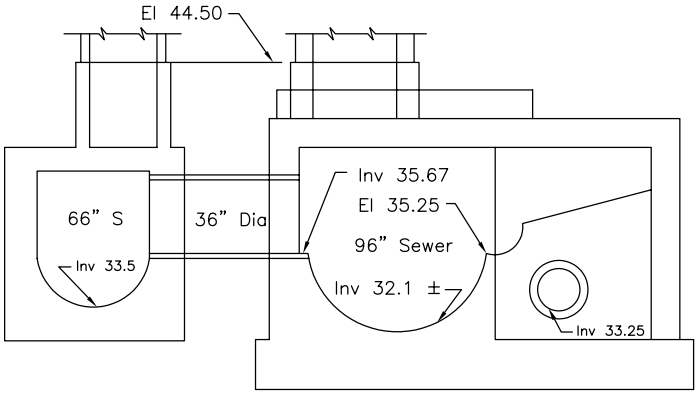


SECTION A–A
NOT TO SCALE

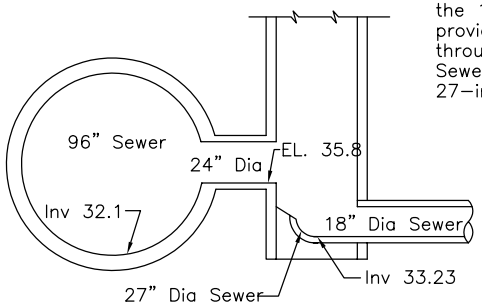
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 022, 034

STRUCTURE NO.
36b

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–36B 1:1 04/23/04 12:55 GH–G



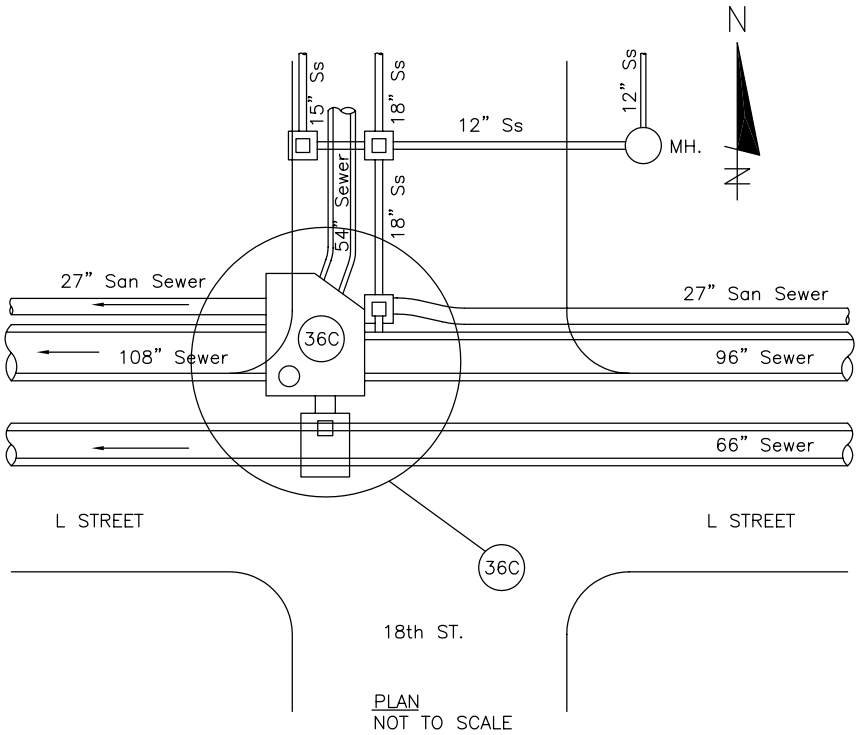
SECTION A–A



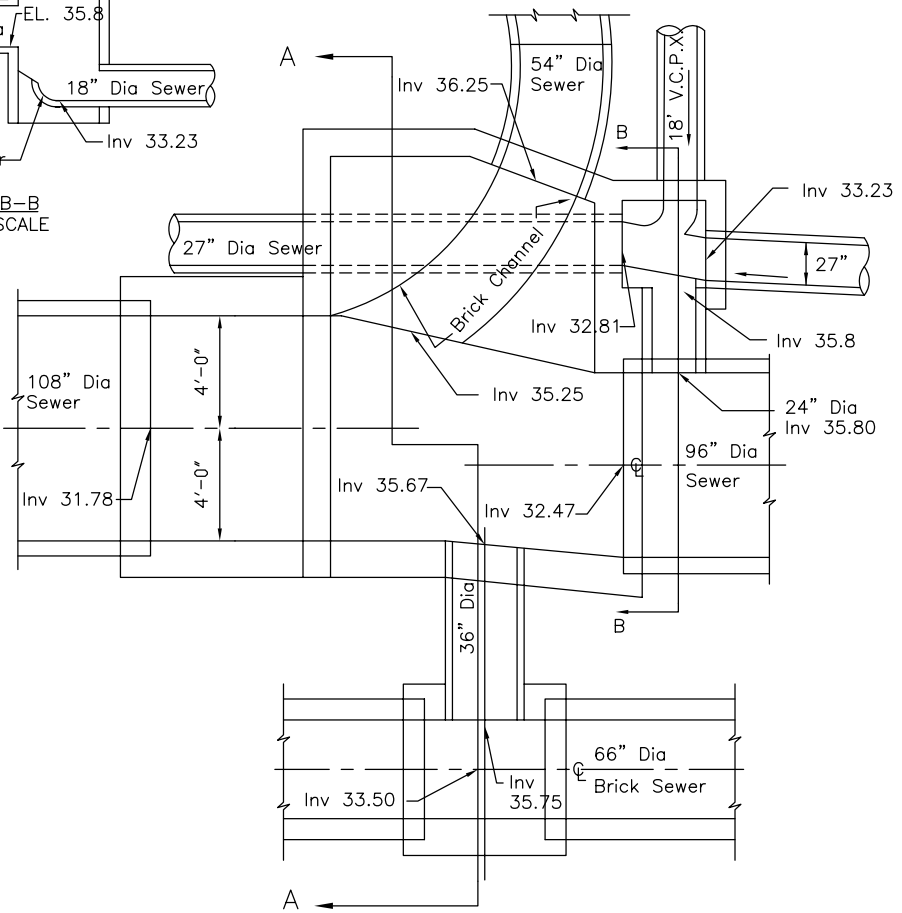
SECTION B–B
NOT TO SCALE

STRUCTURE NO. 36C – 18th & L STREET N.W.

This structure serves as a Junction Chamber for the 54–inch sewer in the 18th Street. The 96–inch sewer in L Street east of 18th and the 108–inch continuation of the Slash Run Relief Sewer. It also provides relief for the 27–inch Sanitary Sewer parallel to L Street through a 24–inch diameter connection to the 96–inch Slash Run Relief Sewer. The relief connection is 3 feet above the invert of the 27–inch sewer.



PLAN
NOT TO SCALE



PLAN AT FLOW LINE
STRUCTURE 36C
NOT TO SCALE

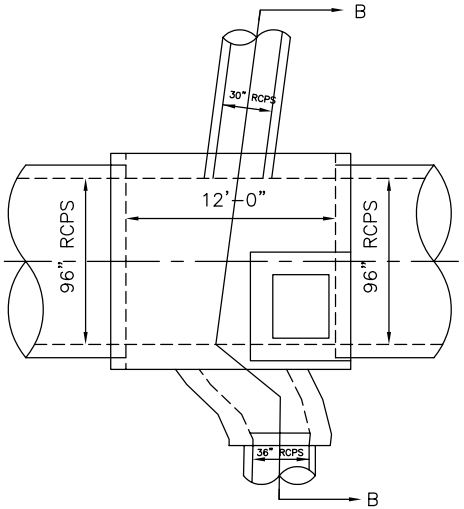
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
36c

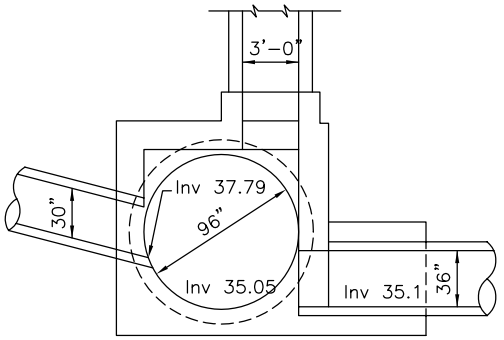
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–36C 1:1 04/23/04 13:00 GH–G

STRUCTURE NO. 36D – 17th & L STREET N.W.
Structure No. 36D connects the 15–inch Sanitary Sewer to the 96–inch Slash Run Relief Sewer approximately 120 feet west of 17th Street.

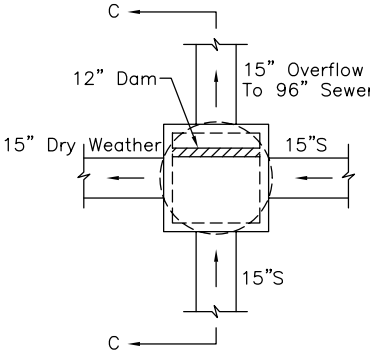
STRUCTURE NO. 36E
Structure No. 36E is a Junction between the 96–inch Slash Run Relief Sewer in L Street, the 30–inch sewer from the north and the 36–inch sewer from the south in 17th Street.



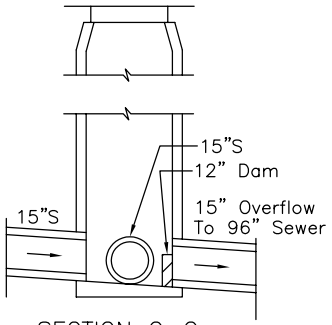
PLAN STRUCTURE 36E
NOT TO SCALE



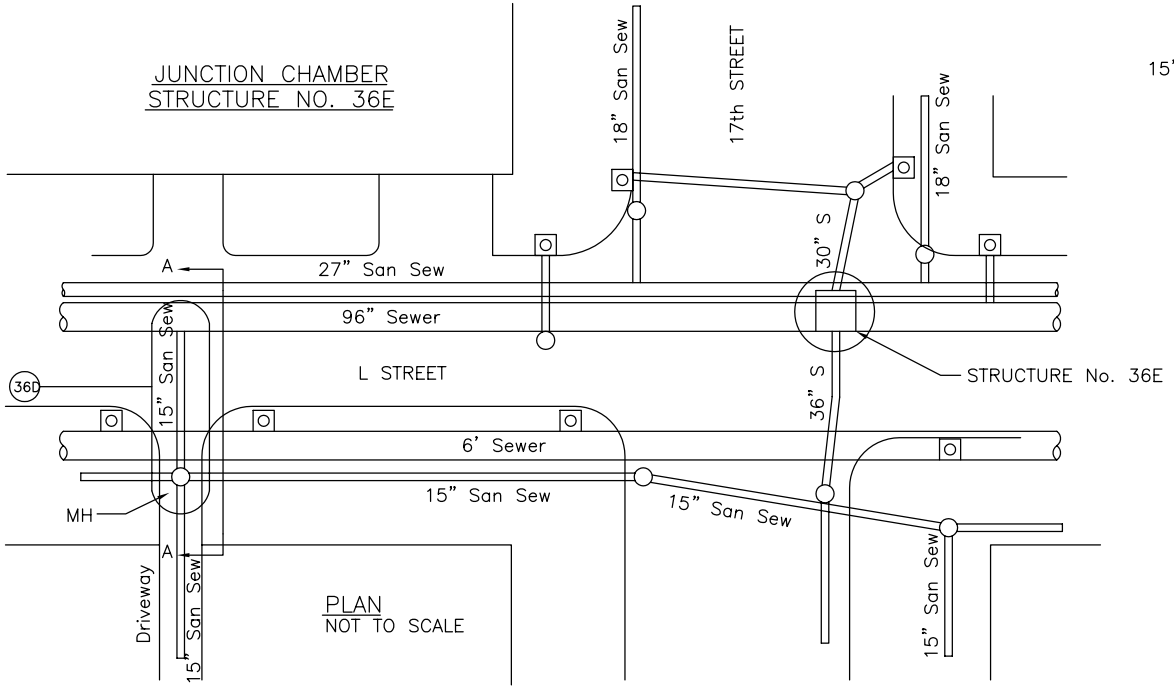
SECTION B–B
NOT TO SCALE

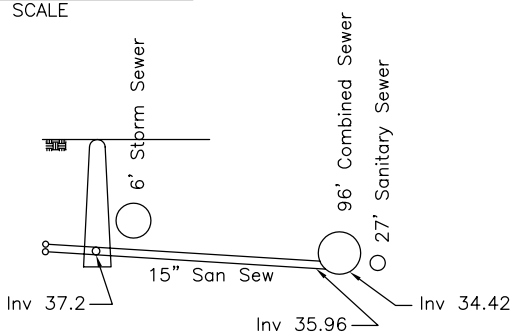


PLAN STRUCTURE 36D
NOT TO SCALE



SECTION C–C
NOT TO SCALE



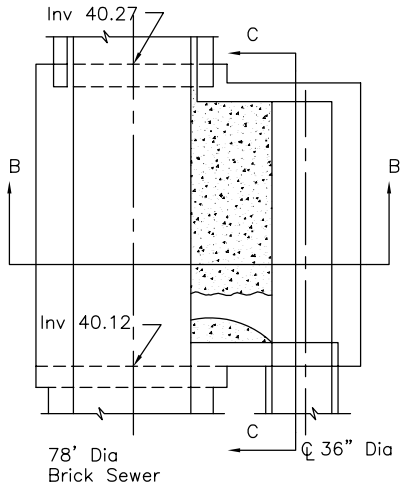


SECTION A–A
NOT TO SCALE

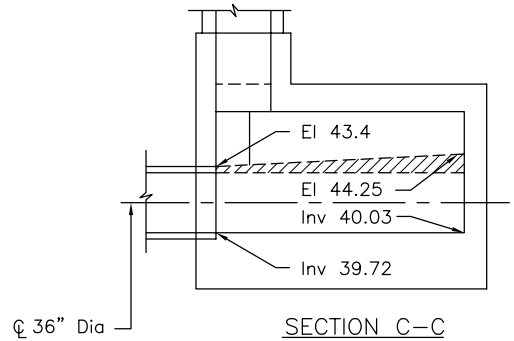
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 022, 034

STRUCTURE NO.
36d, 36e

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–36D–36E 1:1 04/23/04 13:02 GH–G



PLAN CHAMBER 36H
NOT TO SCALE



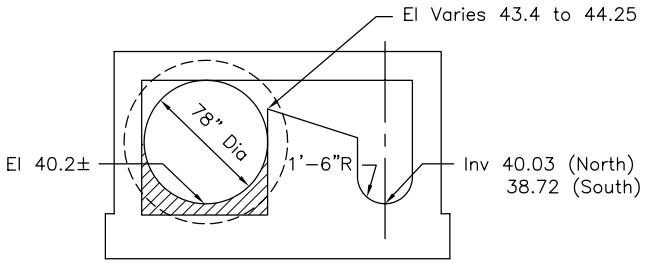
SECTION C–C
NOT TO SCALE

STRUCTURES NO. 36FGH – 18th & M STREET N.W.
There are 3 Structures at this location.

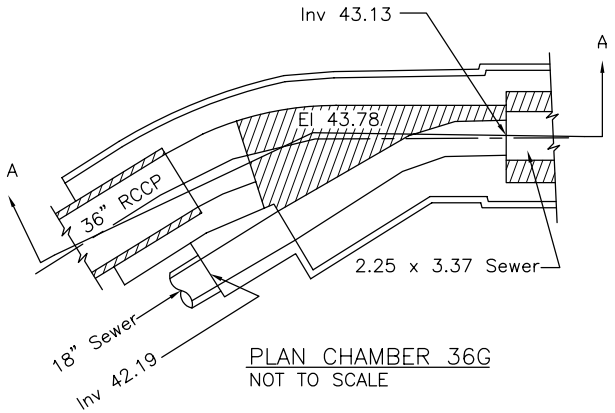
STRUCTURE NO. 36F
Is a Junction Chamber which joins the 36–inch Storm Overflow from the Weir in Structure No. 36G and 36–inch Combined Overflow from the Weir in Structure No. 36H and discharges into the 54–inch Slash Run Relief Sewer.

STRUCTURE NO. 36G
Is a Weir type Combined Sewer Relief. Normal Dry Weather Flow is contained in the 18–inch Sanitary Sewer. Excess flow is discharged over the Weir into the 36–inch Relief Sewer.

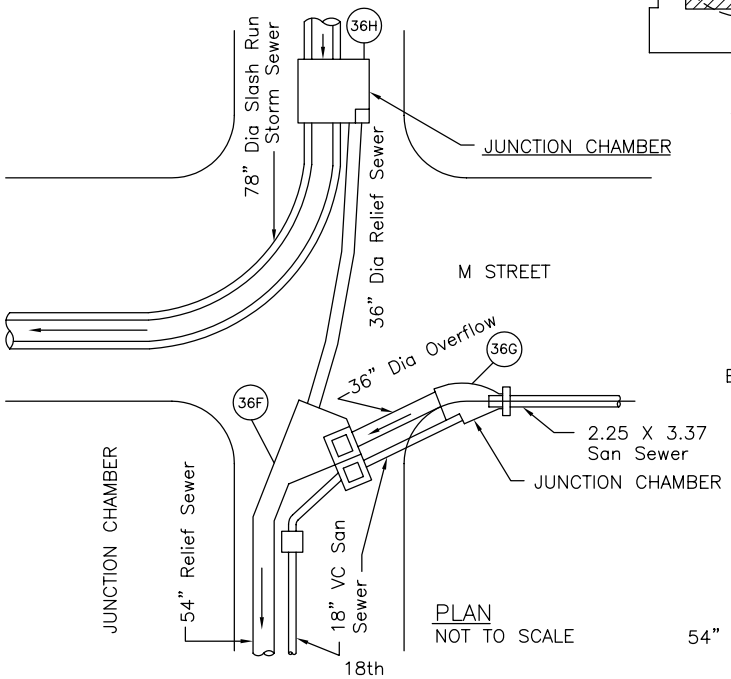
STRUCTURE NO. 36H
Is a Weir type structure that permits Storm Overflow from the 78–inch Slash Run Sewer into a 36–inch Relief Sewer discharging into Junction Chamber Structure No. 36F.



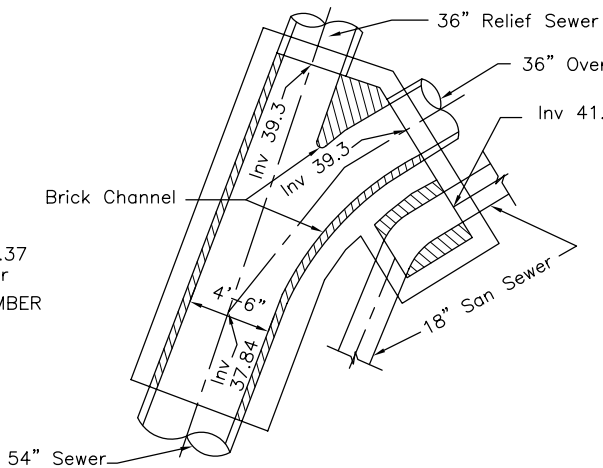
SECTION B–B
NOT TO SCALE



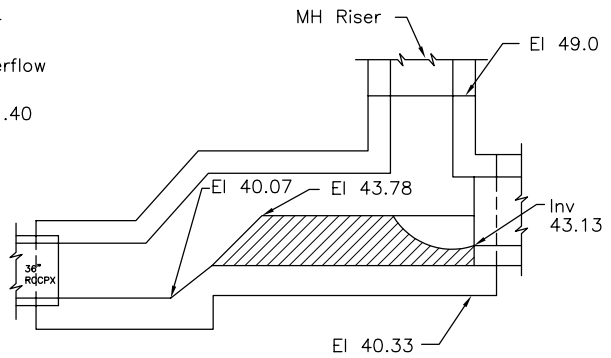
PLAN CHAMBER 36G
NOT TO SCALE



PLAN
NOT TO SCALE



PLAN CHAMBER 36F
NOT TO SCALE

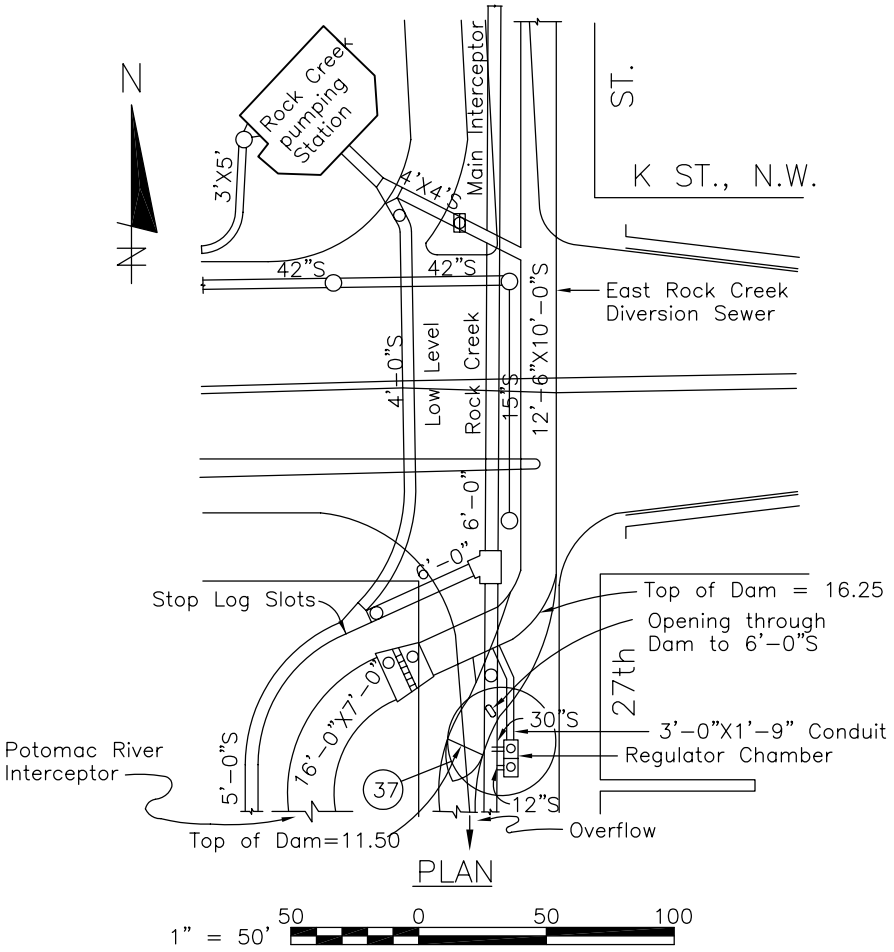


SECTION A-A
NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 022, 034

STRUCTURE NO.
36f, 36g, 36h

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–36F–36G–36H 1:1 04/23/04 13:06 GH–G

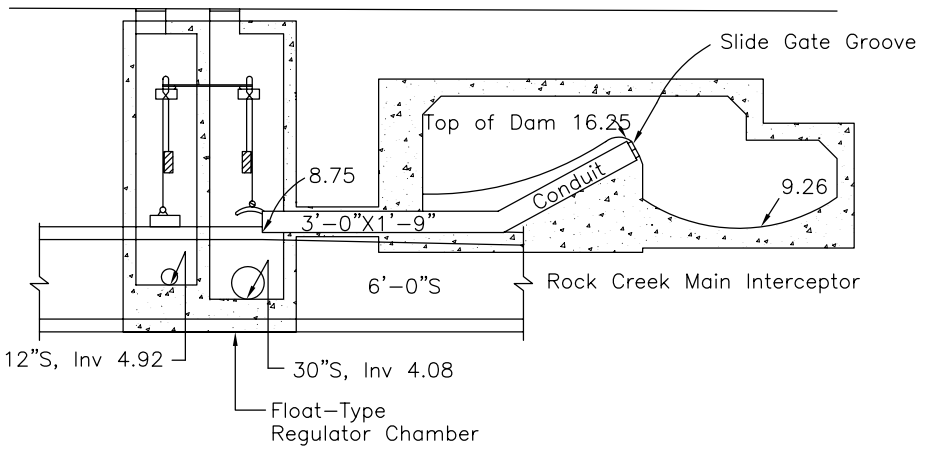


STRUCTURE NO. 37. 27th and K Streets, N.W. This structure consists of one intercepting connection and one diversion connection.

The intercepting connection has a float-type regulator, supplemented by a slot-type Dry-Weather connection downstream from a masonry dam, the Storm Overflow is formed by a masonry dam. The 12-ft. 6-in. by 10-ft. East Rock Creek Diversion Sewer enters the structure, and the Dry-Weather Flow is diverted by a masonry dam into a 14-ft. 6-in. by 6-ft. 6-in., later a 16-ft. by 7-ft. Potomac River Interceptor, conveying the flow to the Potomac Sewage Pumping Station. Additional Dry-Weather Flow during periods of higher flow is diverted into a float-type regulator through a 3-ft. by 1-ft. 9-in. conduit, and a 30-in. connection conveys the flow into the Rock Creek Main Interceptor. There is, also a slot cut in the dam directly over the Rock Creek Main Interceptor.

The Overflow line is the continuation of the East Rock Creek Diversion Sewer.

THOUGH THE FLOAT MECHANISM IS STILL IN THE STRUCTURE, IT HAS BEEN DISABLED. THE GATE REMAINS IN THE OPEN POSITION AT ALL TIMES.



DETAIL

1" = 10' 10 0 10 20

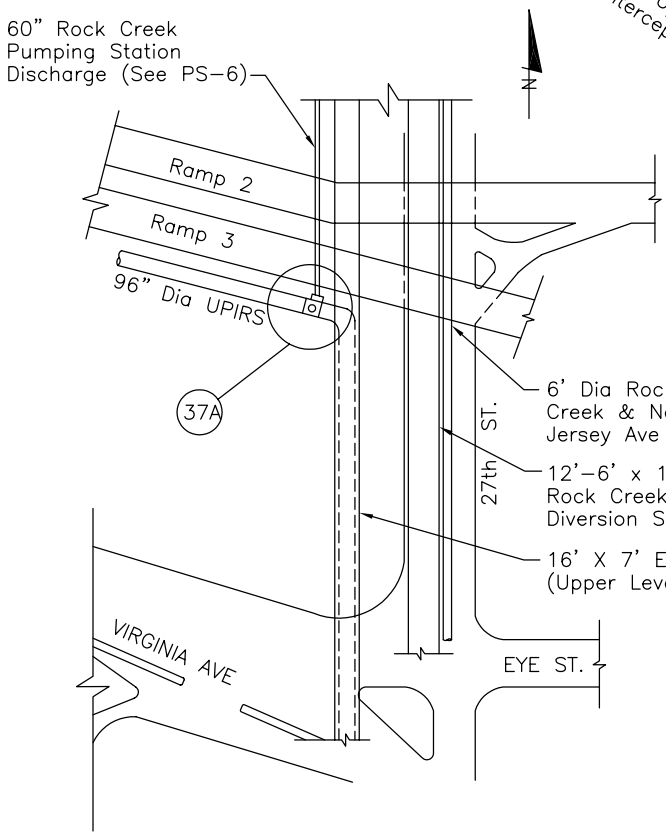
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 022

STRUCTURE NO. 37

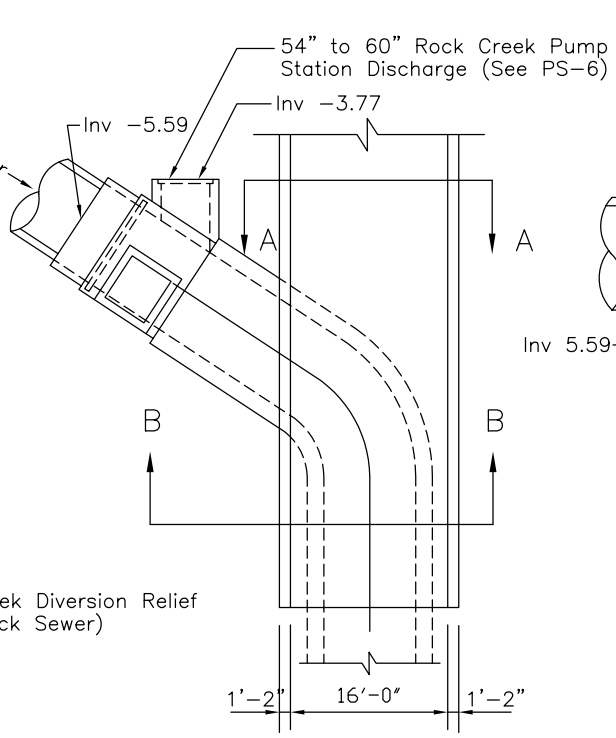
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-37 1:1 04/23/04 13:07 GH-G

STRUCTURE NO. 37A – 27th STREET BETWEEN K & I STREET N.W.

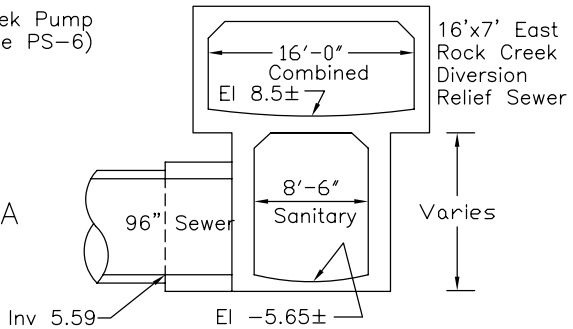
This structure is the start of the Piggyback Sewer where the 16'x 7' Relief of the East Rock Creek Diversion Combined Sewer is above an 8'–6" wide Sanitary Sewer containing the flow from the 96–inch Upper Potomac Interceptor Relief Sewer and the 60–inch Rock Creek Sewage Pumping Station discharge.



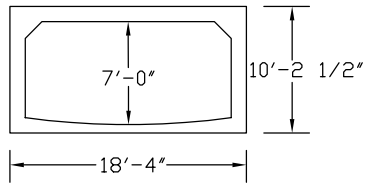
LOCATION PLAN
NOT TO SCALE



SECTIONAL PLAN
STRUCTURE 37A



SECTION B–B



SECTION A–A

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
37a

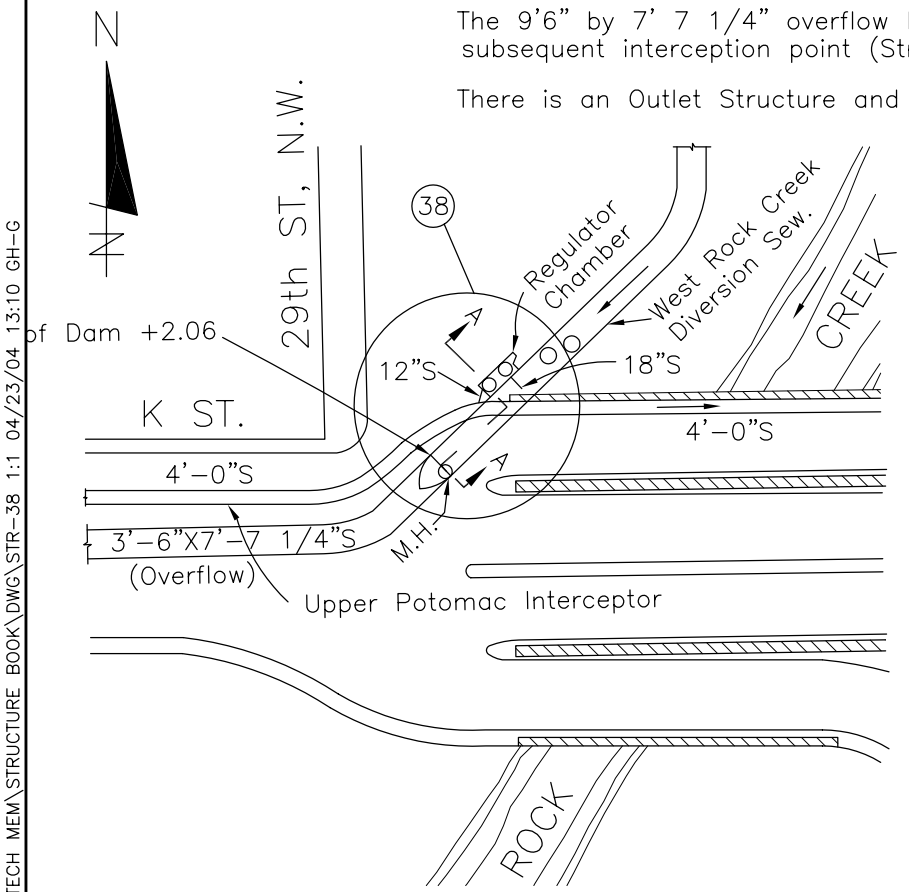
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–37A 1:1 04/23/04 13:09 GH–G

STRUCTURE NO. 38, 29th and K Streets, N.W.

This structure was formerly a float type regulator with a float mechanism disabled. Now it is a sump type regulator. The Storm Overflow is formed by the continuation of the diversion sewer downstream from a masonry dam. The West Rock Creek Diversion Sewer enters the structure, and an 18–inch wide by 12–inch high rectangular intercepting connection conveys the Dry–Weather Flow through the float–controlled regulator gate, and an 18–inch intercepting connection conveys the flow into the Upper Potomac Interceptor.

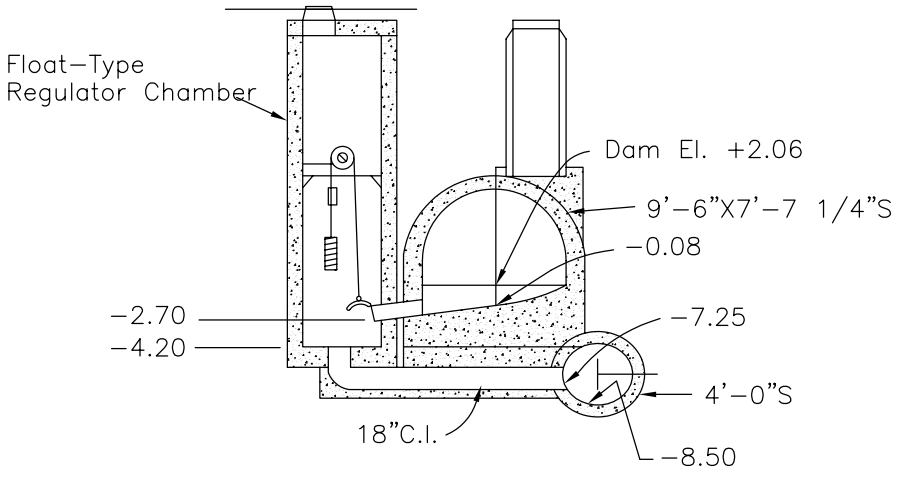
The 9'6" by 7' 7 1/4" overflow line ultimately discharges to the Potomac River after a subsequent interception point (Structure No. 38a).

There is an Outlet Structure and Tide Gates at the outlet.



PLAN

1" = 50' 50 0 50 100



SECTION A–A

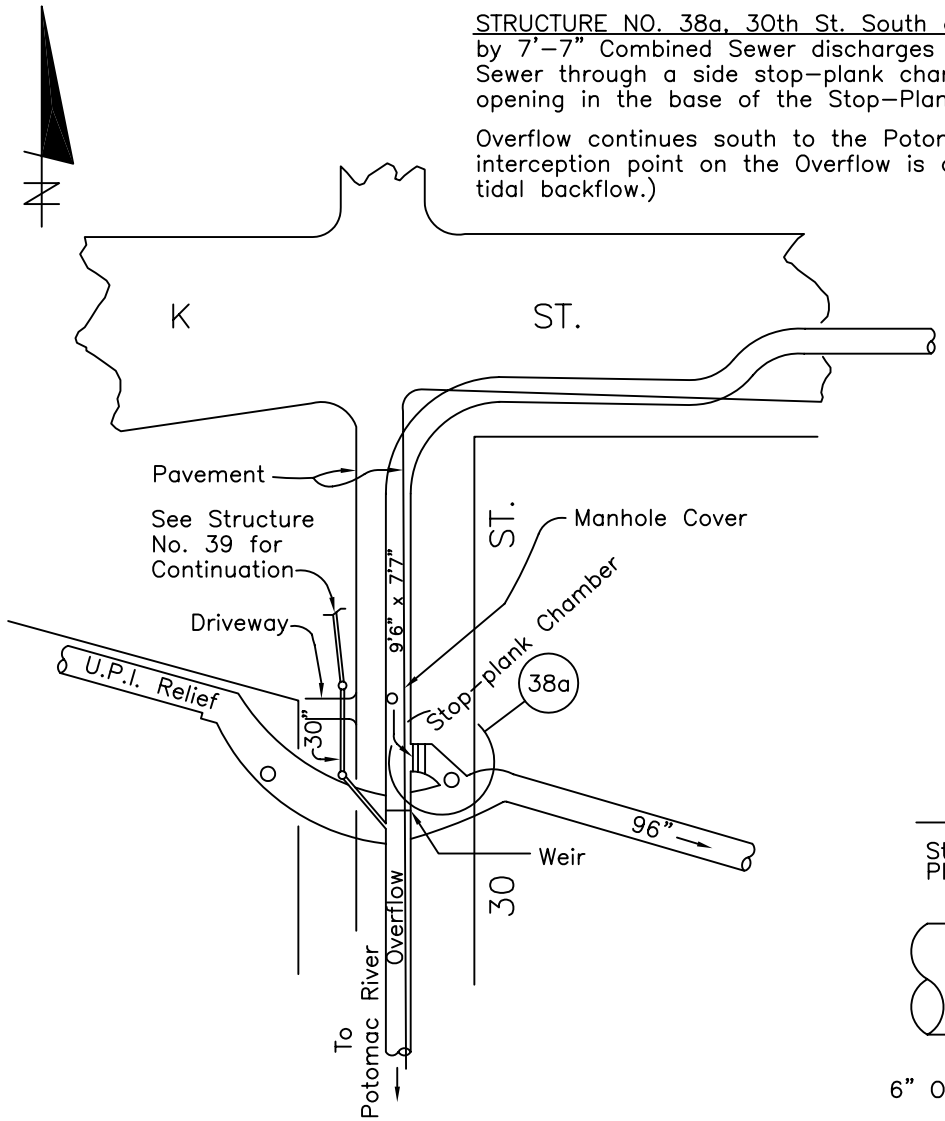
1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 024

STRUCTURE NO. 38

STRUCTURE NO. 38a, 30th St. South of K St., N.W. Flow in the 9'–6" by 7'–7" Combined Sewer discharges to Upper Potomac Interceptor Relief Sewer through a side stop–plank chamber (Presently, there is a 6" high opening in the base of the Stop–Plank Chamber to pass this flow.)

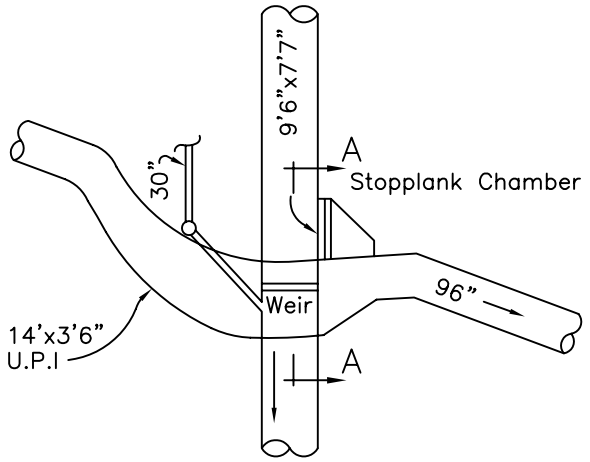
Overflow continues south to the Potomac River. (Downstream of the interception point on the Overflow is a 2'6" high masonry weir to prevent tidal backflow.)



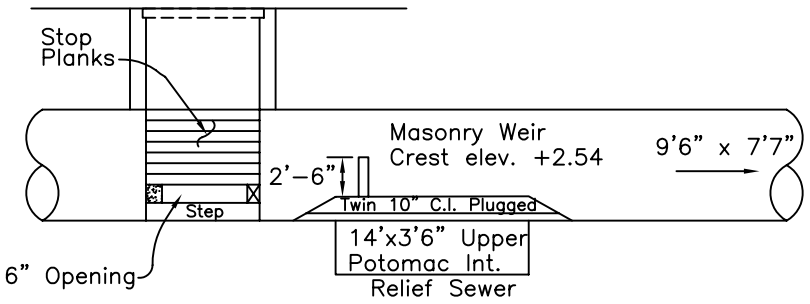
PLAN

1" = 100'

100 0 100 200



DETAIL



SECTION A–A

1" = 10'

10 0 10 20

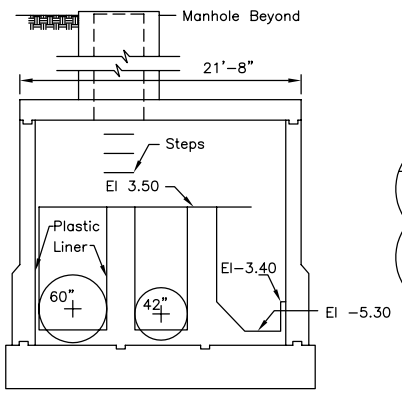
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 024

STRUCTURE NO.
38a

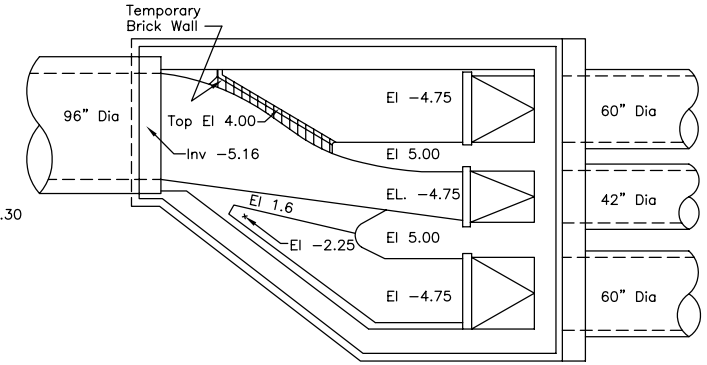
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-38A 1:1 04/23/04 13:12 GH-G

STRUCTURE NO. 38B – UPIRS SIPHON AT ROCK CREEK

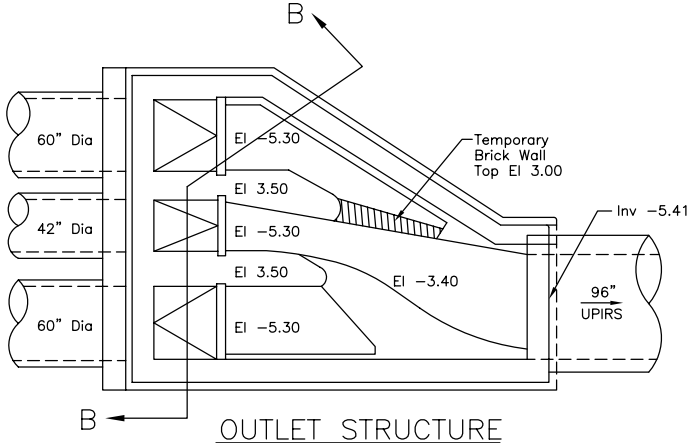
This structure carries the Upper Potomac Interceptor Relief Sewer under Rock Creek in two 60–inch and 42–inch Siphons. The 96–inch UPIRS is split in an Inlet Structure and consolidated in a Outlet Chamber on opposite sides of Rock Creek. The north 60–inch Siphon is presently bulkheaded in both Chambers.



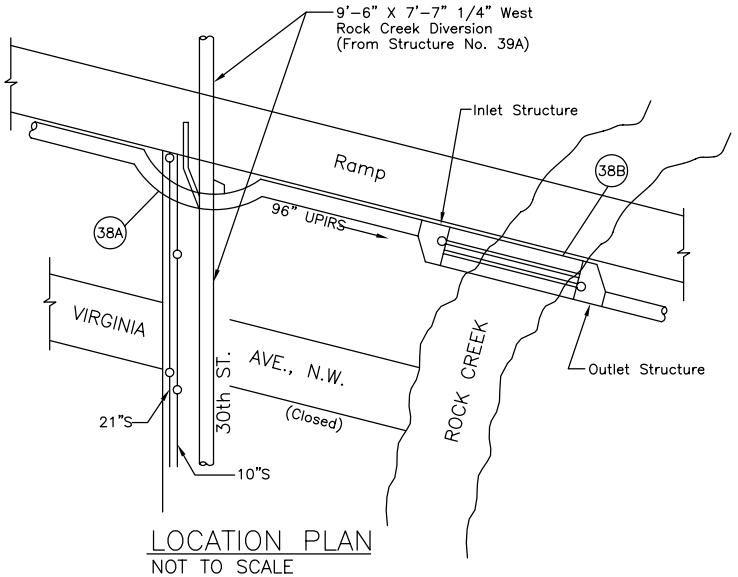
SECTION B–B
NOT TO SCALE



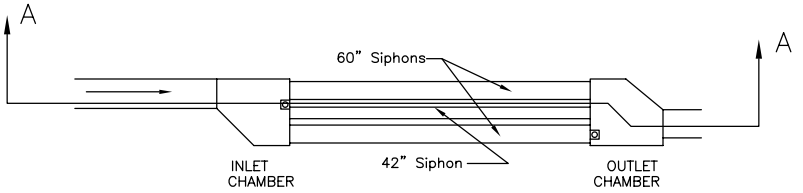
INLET STRUCTURE
NOT TO SCALE



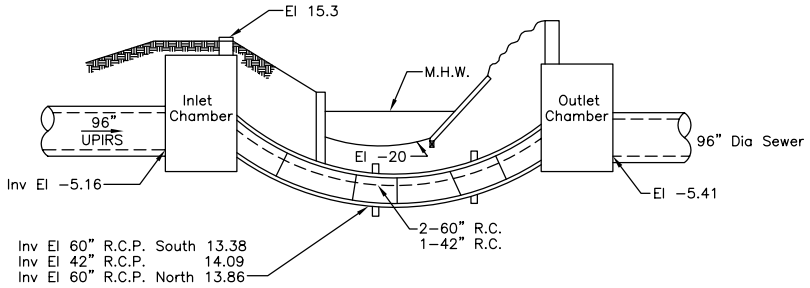
OUTLET STRUCTURE
NOT TO SCALE



LOCATION PLAN
NOT TO SCALE



PLAN STRUCTURE 38B
NOT TO SCALE



SECTION A-A
NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
38b

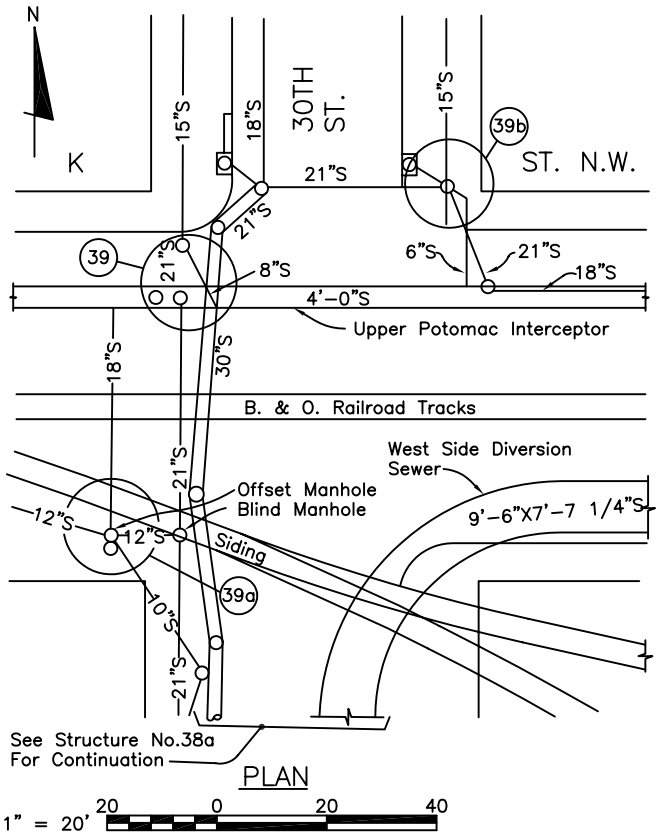
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–38B 1:1 04/23/04 13:13 GH–G

30th and K Streets N.W. There are three Overflow Manholes at this location, each having sump–type regulators. The intercepting connections discharge to the Potomac River. The Storm overflows are formed by the elevated position of the Overflow pipes and by dams.

STRUCTURE NO. 39. A 15–inch Combined Sewer enters the Overflow Manhole and there is an 8–inch intercepting connection. The previously used 21–inch overflow connection has been bulkheaded.

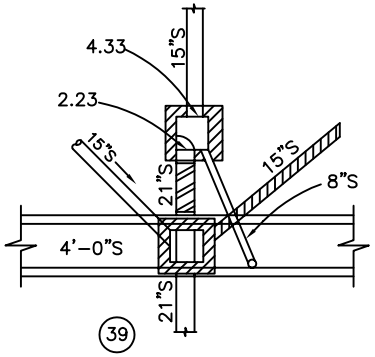
STRUCTURE NO. 39a. A 10–inch Combined Sewer and 12–inch Combined Sewer enter the Overflow Manhole, and there is an 8–inch intercepting connection. A 6–inch high dam has been built in the 12–inch overflow connection to direct Dry Weather Flows into the 8–inch Interceptor.

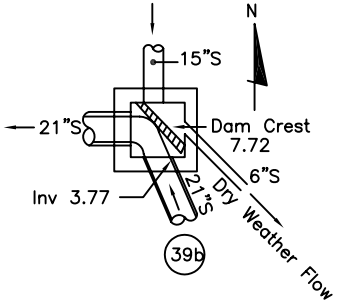
Structure No. 39b. A 15–inch Combined Sewer enters the Overflow Structure and overflows over a weir dam crest elev. 7.72. Dry Weather Flow is through a 6–inch sewer into the Upper Potomac Interceptor. The overflow line is 21–inch diameter.

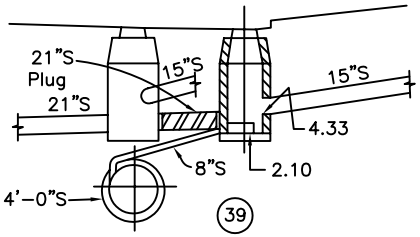


PLAN

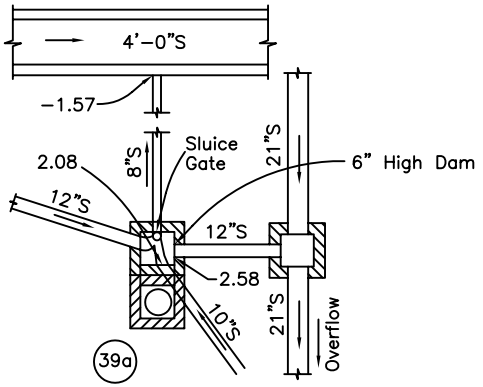
1" = 20' 20 0 20 40

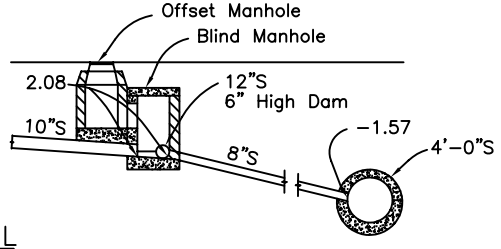






NOTE: Overflow from Structure No. 39 is now abandoned.





DETAIL

1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 024

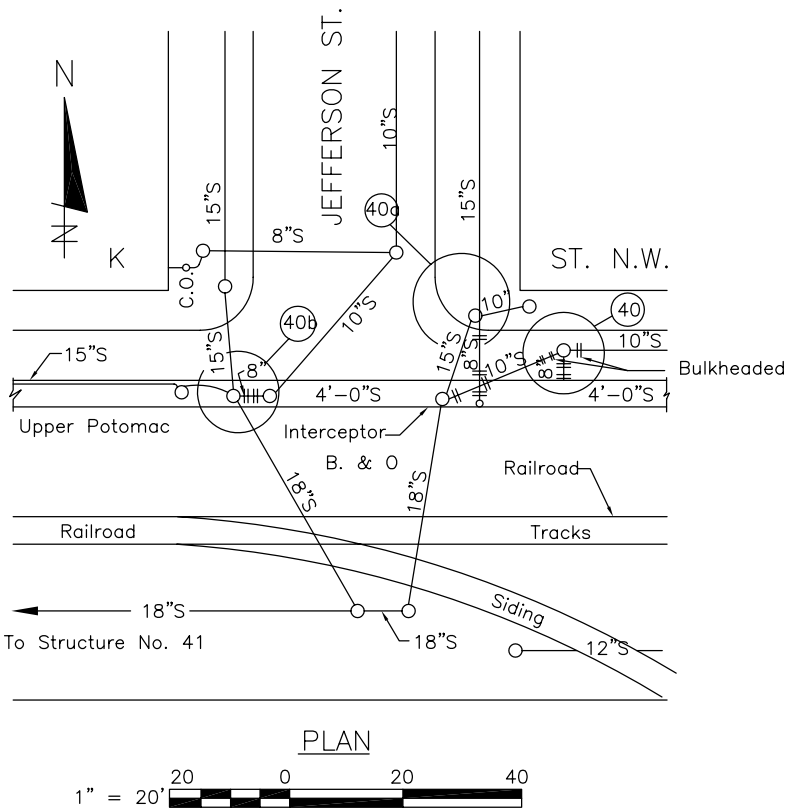
STRUCTURE NO.
39, 39a, 39b

JEFFERSON and K STREETS N.W. There are three Manholes at this location.

STRUCTURE NO. 40. The Incoming line and Overflow from this structure are now bulkheaded.

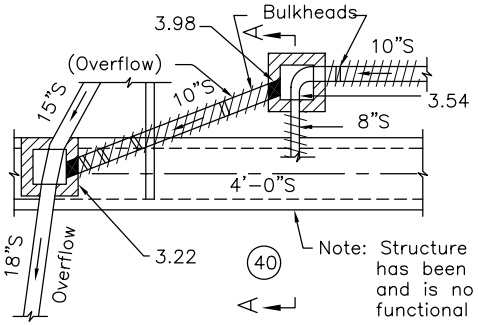
STRUCTURE NO. 40a. This Structure has been converted to a Storm Sewer Manhole.

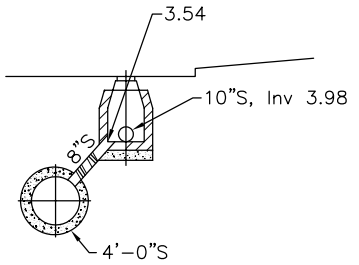
STRUCTURE NO. 40b. This Structure has been converted to a Storm Sewer Manhole.



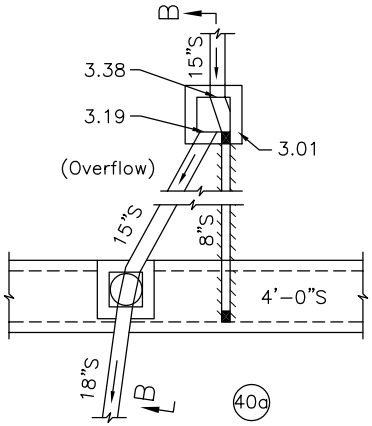
PLAN

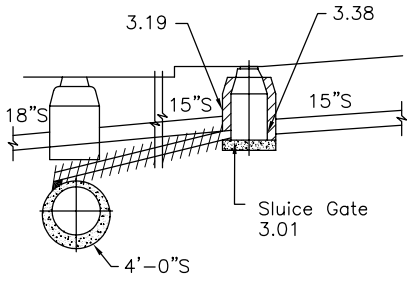
1" = 20' 20 0 20 40



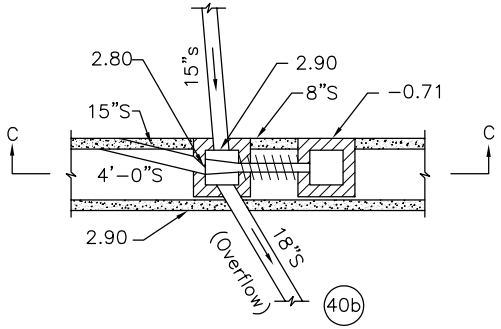


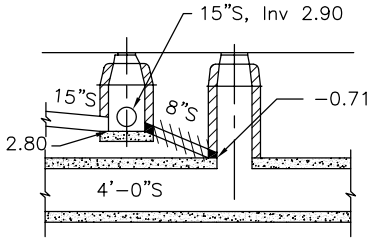
SECTION A–A





SECTION B–B





SECTION C–C

DETAIL

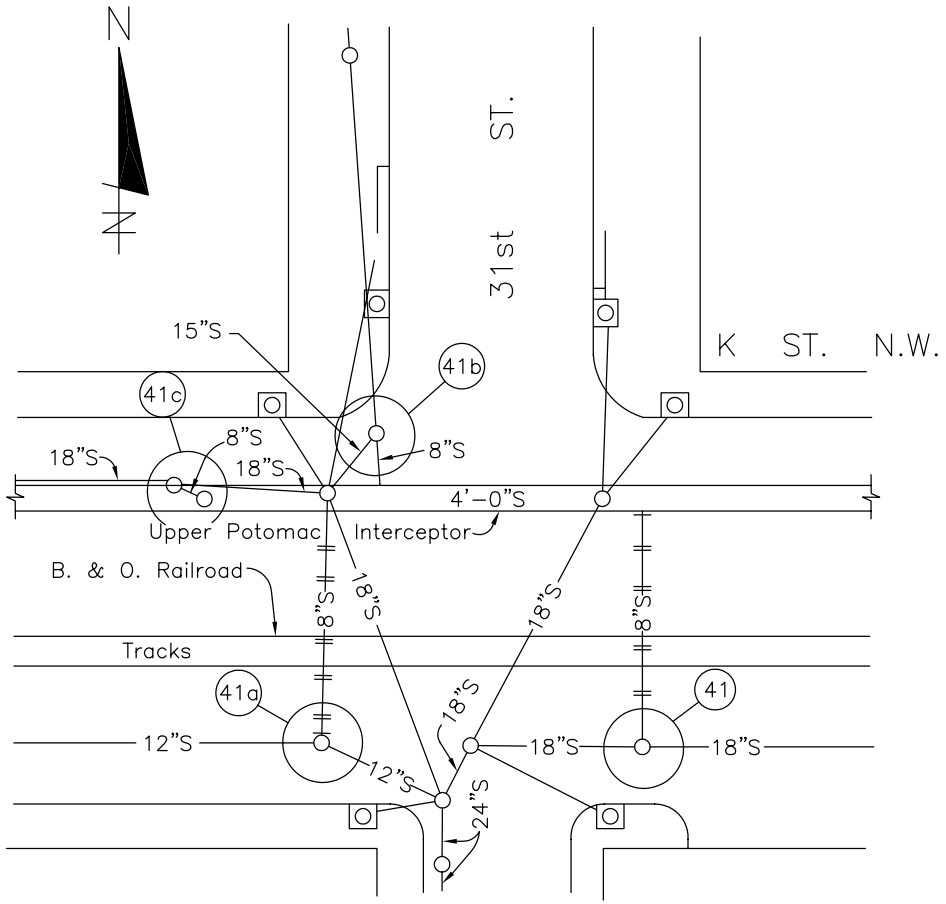
1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
40, 40A, 40B

31st and K Streets, N.W. There are two Overflow Manholes at this location, each having sump-type regulators. All of the Intercepting connections discharge to the Upper Potomac Interceptor, and each of the Overflow lines discharge to a 24-in. Overflow Sewer which discharges to the Potomac River. The Storm Overflows are formed by the elevated position of the Overflow pipes in the Manholes.

(Structure No. 41 and 41a have been disconnected from Combined Sewers and functions as separate Storm Sewers)



PLAN

1" = 20' 20 0 20 40

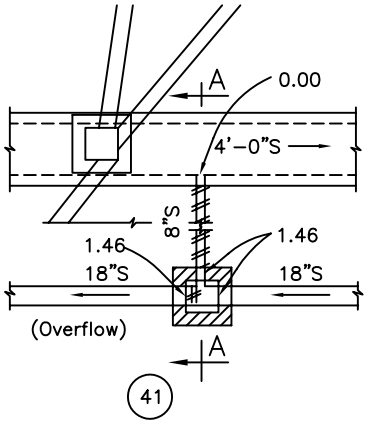
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
41

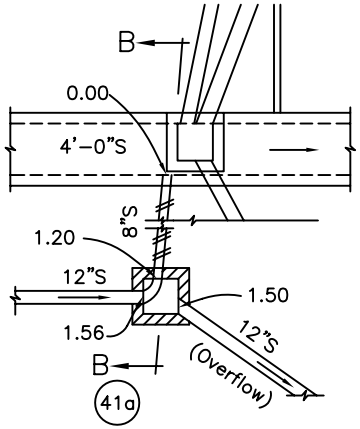
CONVERTED TO STORM

STRUCTURE NO. 41. This structure has been converted to a Storm Manhole on an 18–in. sewer.

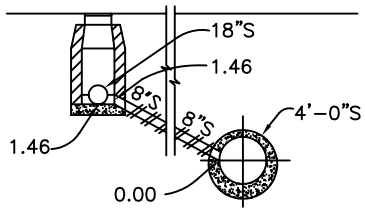
STRUCTURE NO. 41a. This structure has been converted to a Storm Manhole on an 12–in sewer.



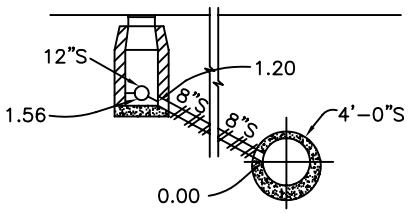
41



41a



SECTION A–A



SECTION B–B

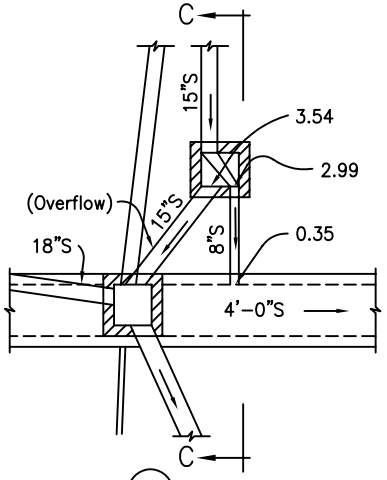
IN SERVICE

STRUCTURE NO. 41b, A 15–in. Combined Sewer enters the Overflow Manhole, and there is an 8–in. intercepting connection.

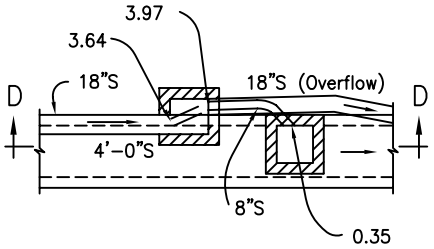
The Overflow line is 15–in. diameter.

STRUCTURE NO. 41c, An 18–in. Combined Sewer enters the Overflow Manhole, and there is an 8–in. intercepting connection.

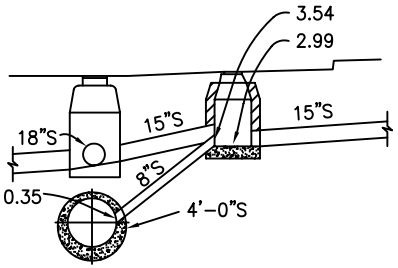
The Overflow line is 18–in. in diameter.



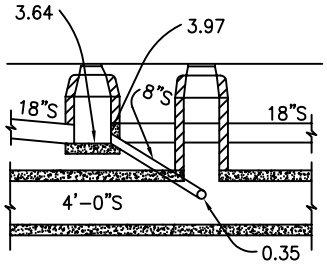
41b



41c



SECTION C–C



SECTION D–D

1" = 10'

10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
41a, 41b, 41c

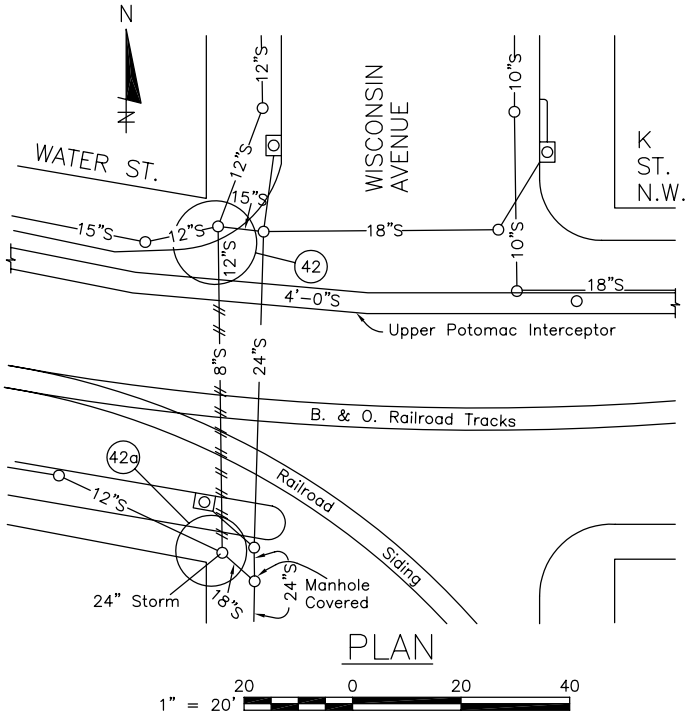
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–41A 1:1 04/23/04 13:21 GH–G

Wisconsin Avenue and Water Street, N.W. There are two Overflow Manholes at this location, each having sump–type regulators. Both intercepting connections discharge to the Upper Potomac Interceptor, and both Overflow lines discharge to a 24–in. Overflow line which discharges to the Potomac River. The Storm Overflows are formed by the elevated position of the Overflow pipes in the manholes.

STRUCTURE NO. 42, Two 12–in. Combined enter the Overflow Manhole, and there is a 12–in. intercepting connection.

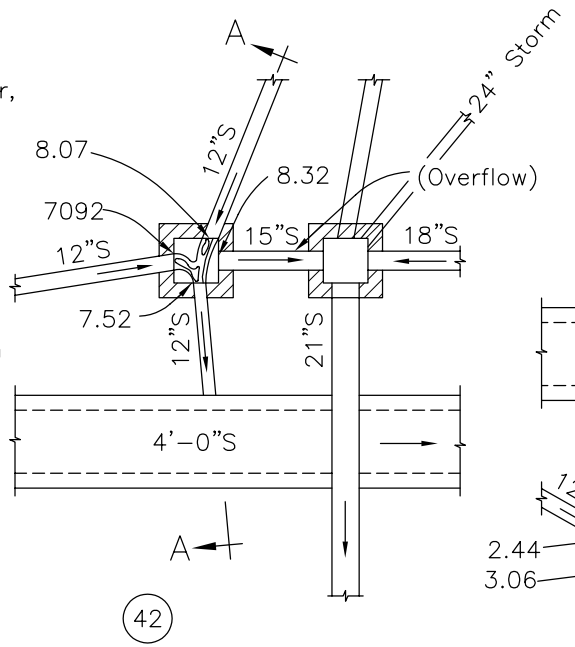
The Overflow line is 15–in. in diameter.

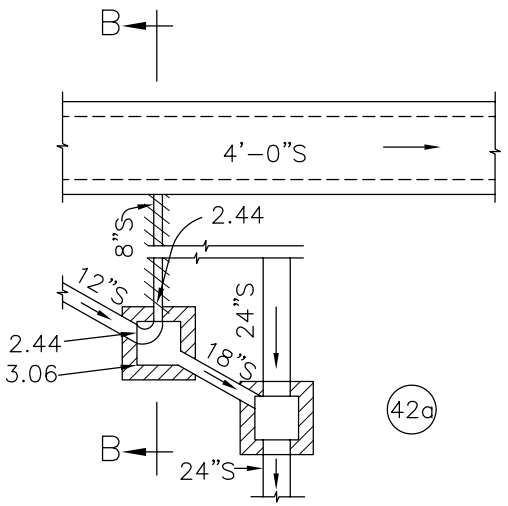
STRUCTURE NO. 42a, This structure has been converted to a Storm Manhole at the junction of 12–in. and 18–in. sewer.

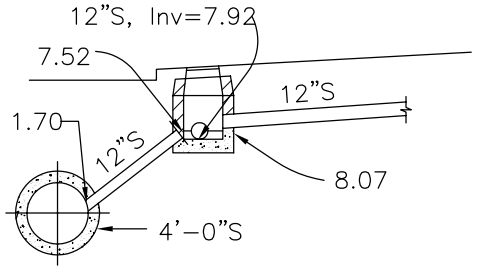


PLAN

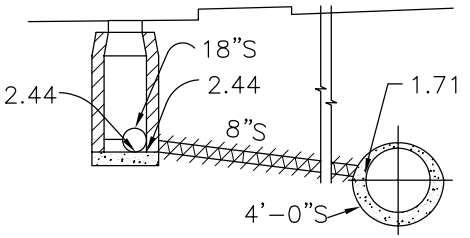
1" = 20' 20 0 20 40







SECTION A–A

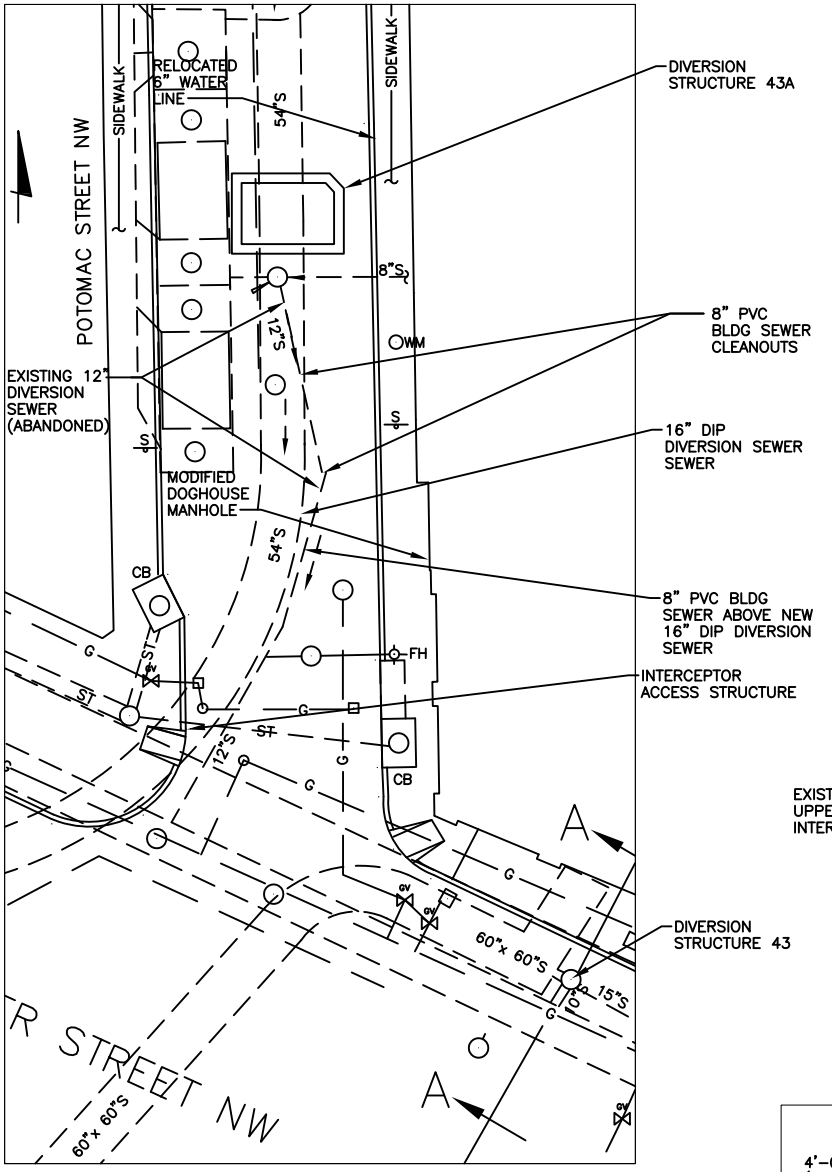


SECTION B–B

1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 026

STRUCTURE NO.
42, 42a



STRUCTURE NO. 43A
SITE PLAN

1"=20' 20 0 20 40

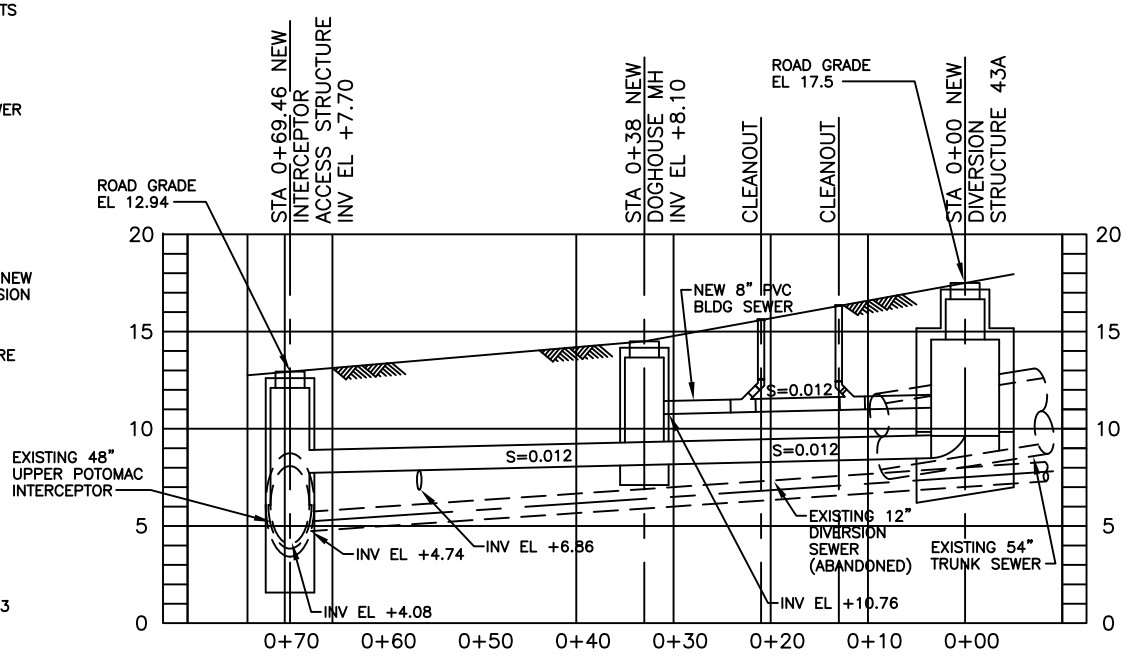
POTOMAC STREET NW AND WATER STREET NW
There are two Overflow Manholes at the location, each having Sump–Type Regulators. Both intercepting connections discharge to the Upper Potomac Interceptor, and both Overflow Lines discharge to the Potomac River.

STRUCTURE NO. 43
A 15–inch Combined Sewer enters the Overflow Manhole, and there is an 10–inch intercepting connection.

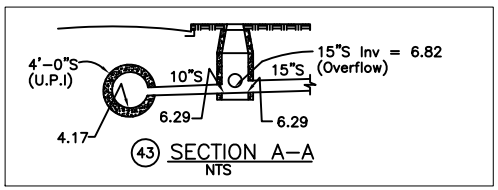
The Overflow Line is 15–inch in diameter.

STRUCTURE NO. 43a
A 4–ft 6–inch Combined Sewer enters the Diversion Chamber and discharges through a 16–inch intercepting connection.

The Overflow Line is 4–ft 6–inch in diameter.



16" DIVERSION SEWER PROFILE 1C–5
SCALE: 1"=20' HORIZONTAL
1"=10' VERTICAL



(43) SECTION A–A
NTS

REVISED BY: EPMC–3A
REVISED DATE: JANUARY 2006
ASSOCIATED NPDES OUTFALL # 027

STRUCTURE NO.
43 & 43a

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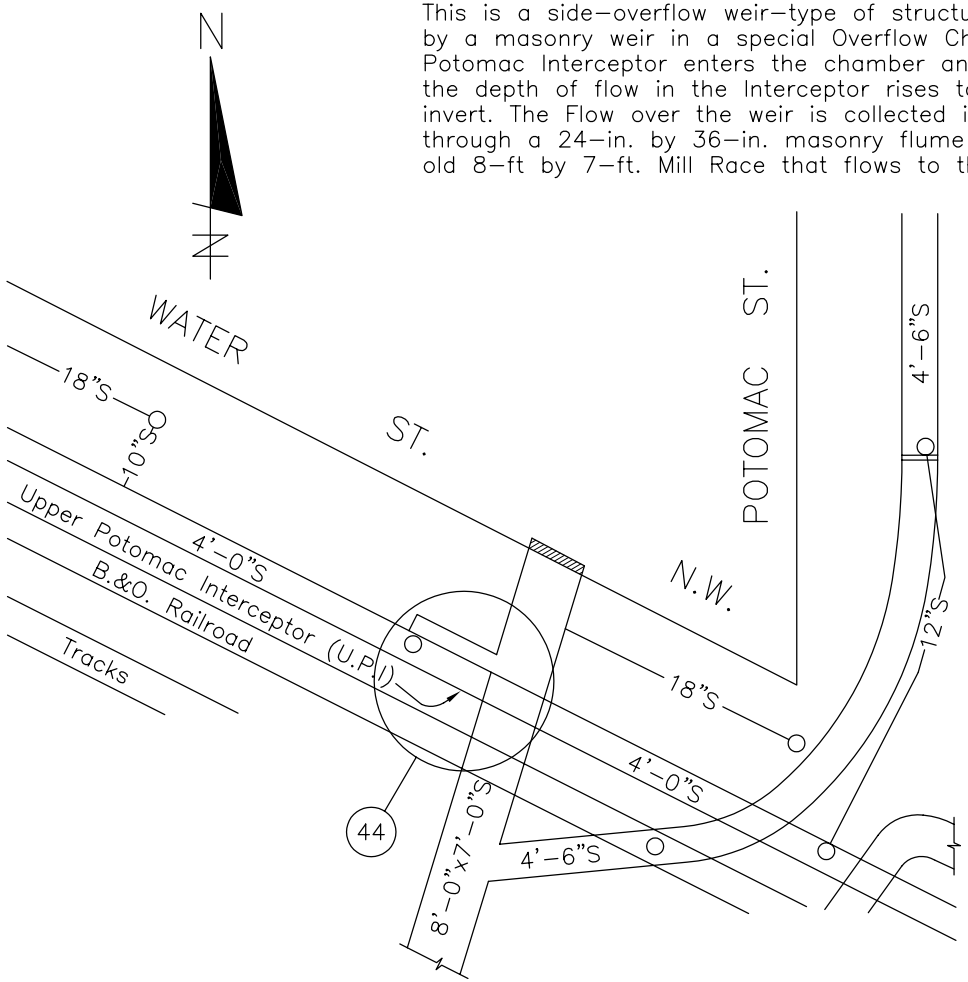
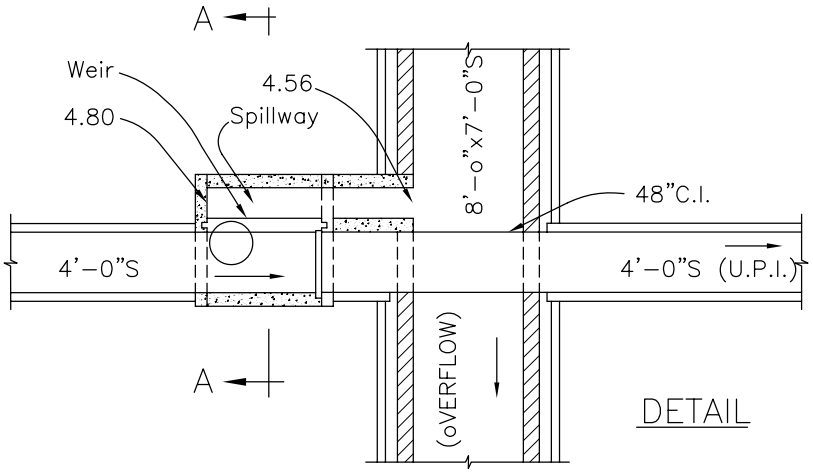
STRUCTURE NO. 44, Water Street, West of Potomac Street,N.W.

This is a side–overflow weir–type of structure. The Overflow is formed by a masonry weir in a special Overflow Chamber. The 4–ft. Upper Potomac Interceptor enters the chamber and does not overflow until the depth of flow in the Interceptor rises to about 3–ft. 6–in. above the invert. The Flow over the weir is collected in the spillway then carried through a 24–in. by 36–in. masonry flume and then discharges into an old 8–ft by 7–ft. Mill Race that flows to the Potomac River.

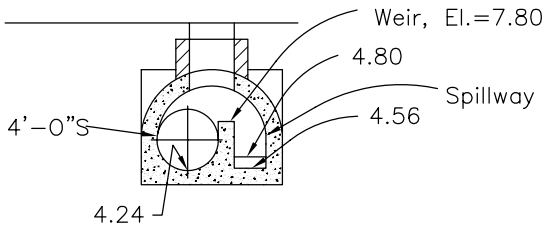


PLAN

1" = 20' 20 0 20 40



DETAIL



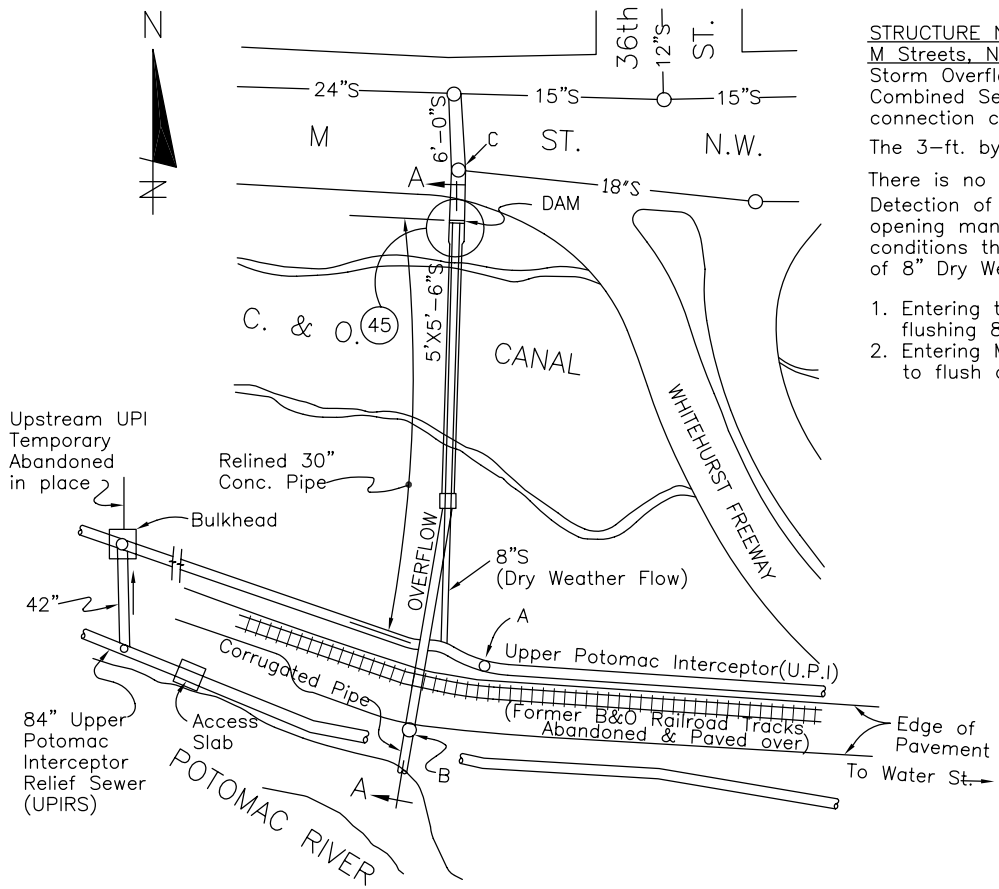
SECTION A–A

1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 027

STRUCTURE NO.
44

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–44 1:1 04/23/04 13:25 GH–G



PLAN

1" = 50' 50 0 50 100

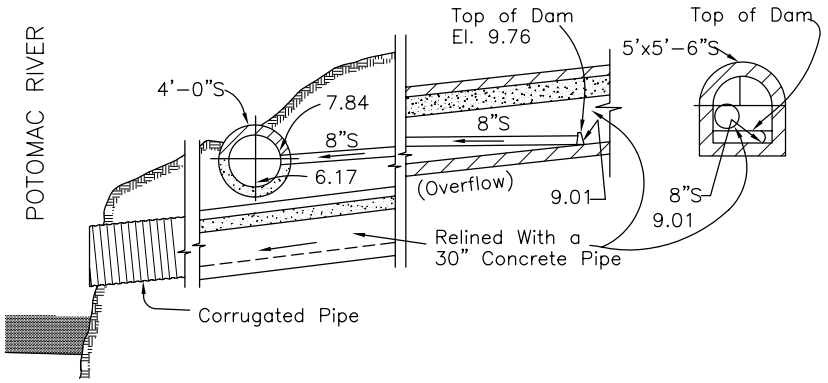
STRUCTURE NO. 45, Southwest of the Intersection of 36th and M Streets, N. W. This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam. A 5-ft. by 5-ft. 6-in. Combined Sewer enters the Diversion Chamber. and an 8-in. intercepting connection conveys the Dry-Weather Flow to the Upper Potomac Interceptor.

The 3-ft. by 4-ft. Overflow line discharges to the Potomac River.

There is no outlet structure or gate at the outlet.

Detection of Dry Weather Overflow may be performed by opening manhole cover for Manhole-B. During Dry Weather conditions there should be no flow in this manhole. Cleaning of 8" Dry Weather pipe may be performed by:

1. Entering through 4'-0" UPI through MH-A and flushing 8" line.
2. Entering MH-C through 5'X5'-6" pipe to dam to flush out 8" line.



SECTION A-A

1" = 10' 10 0 10 20

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 028

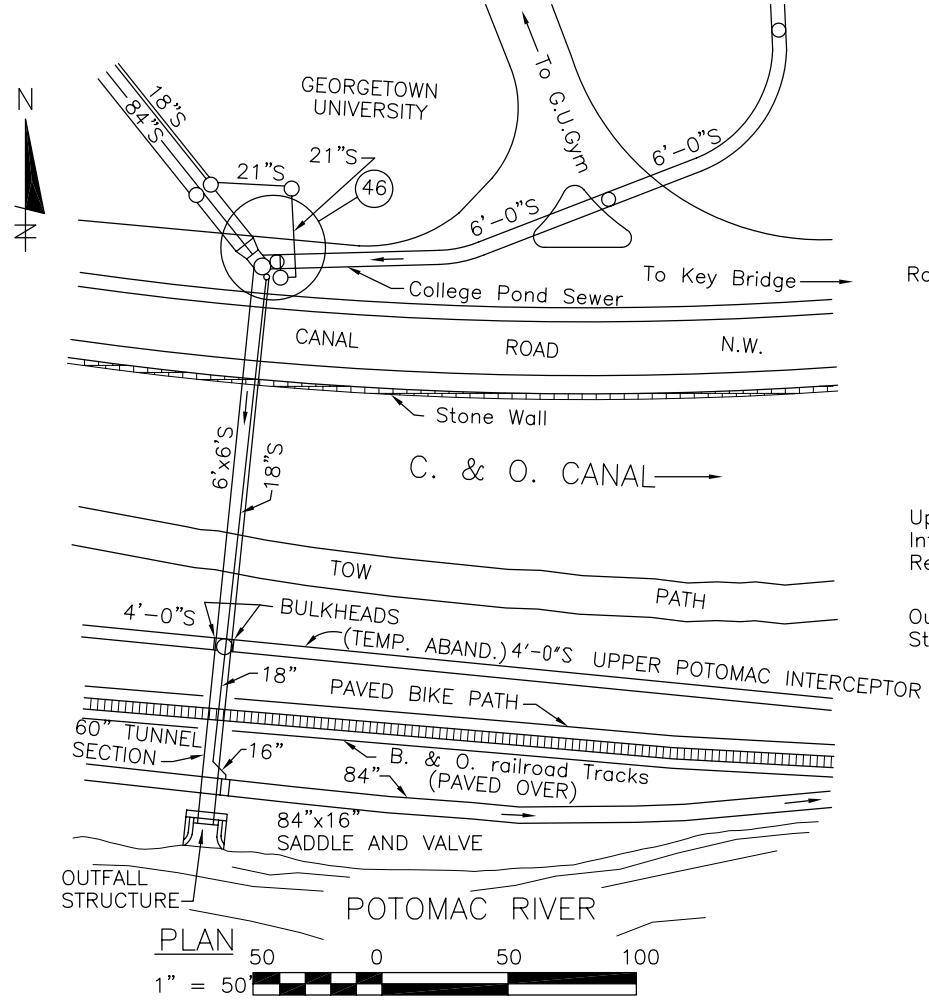
STRUCTURE NO.
45

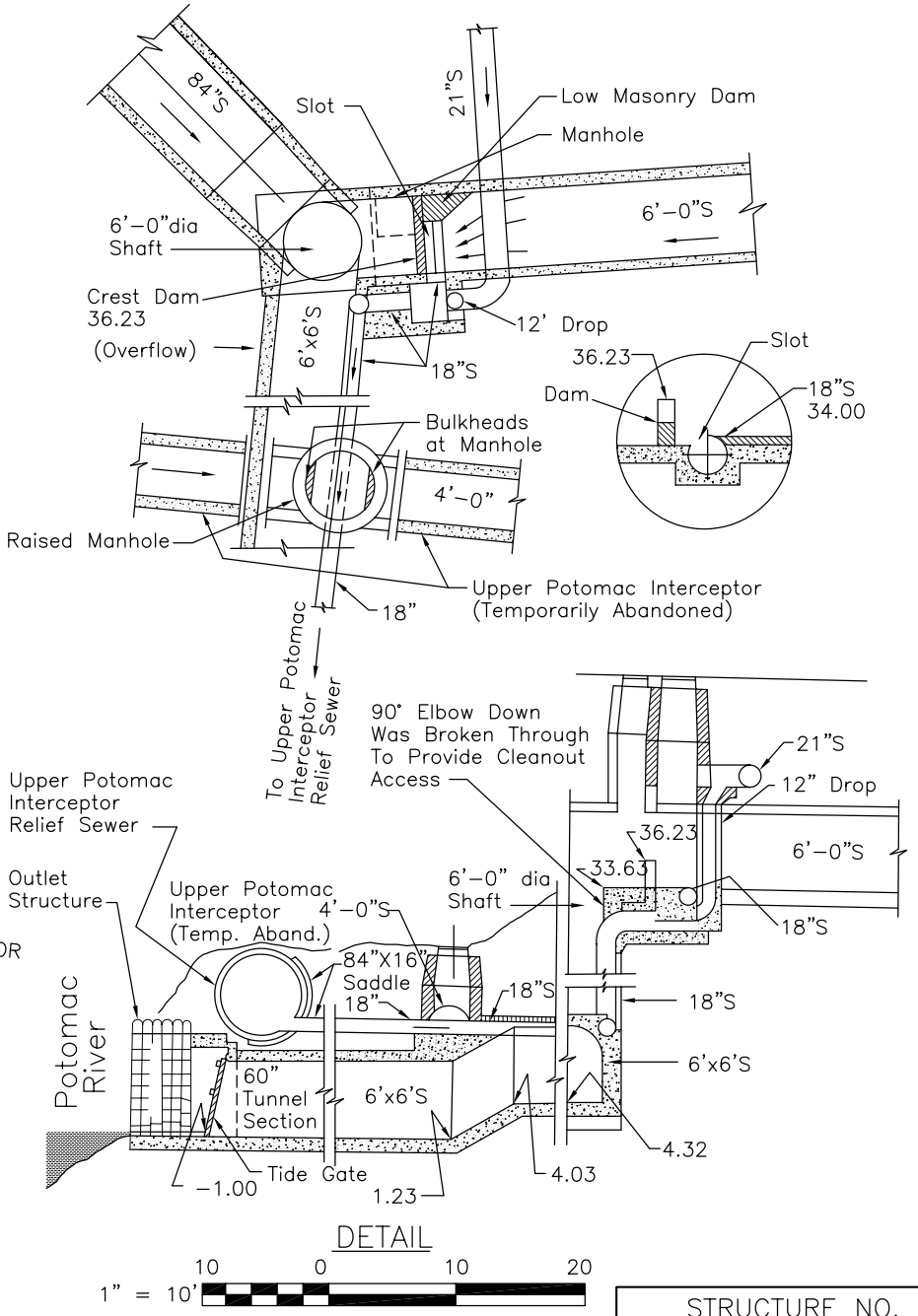
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-45 1:1 04/23/04 13:26 GH-G

STRUCTURE NO. 46, College Pond Sewer. Canal Road about 1,000 ft. East of Foxhall Road, N.W. This structure has a slot–type regulator. The Storm Overflow is formed by a depressed slot and a masonry dam. A 6–ft. Combined Sewer enters the Diversion Chamber, and there is a slot in the invert which collects the Dry–Weather Flow into a sump–like structure, and the flow is then conveyed through an 18–in. intercepting connection to the Upper Potomac Interceptor Relief Sewer. The Upper Potomac Interceptor is temporarily abandoned.

The 6–ft. by 6–ft. Overflow line discharges to the Potomac River.

There is an Outlet Structure and Gate at the outlet.

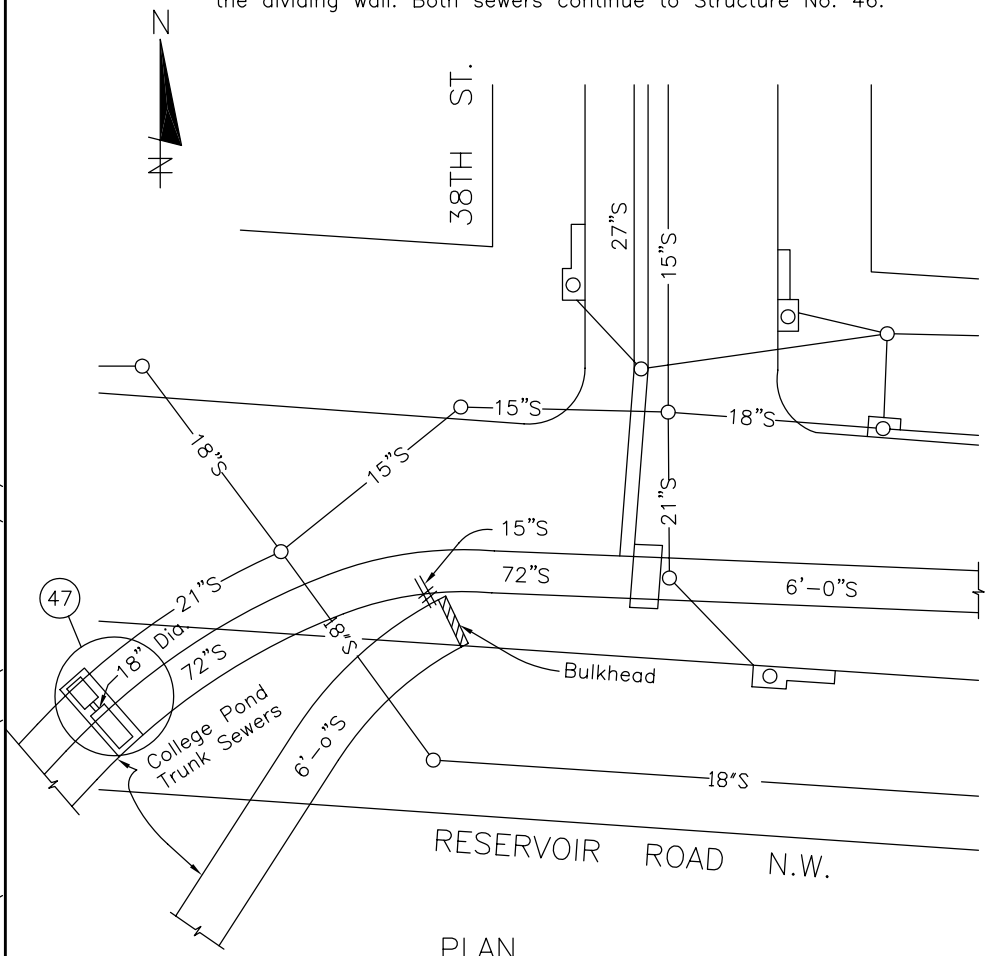




REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 029

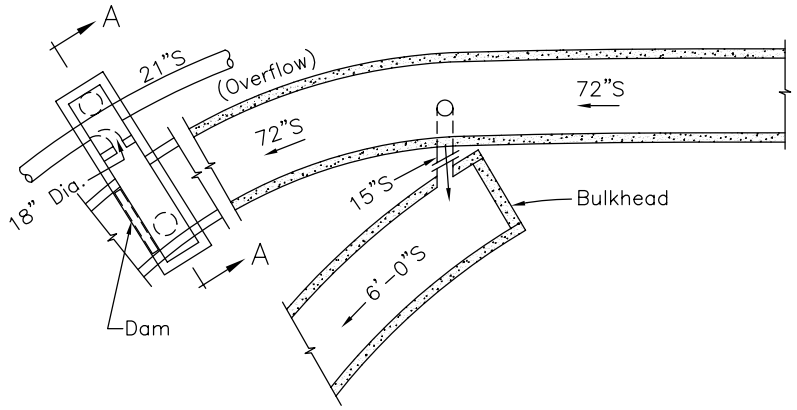
STRUCTURE NO. 46

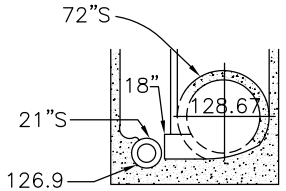
STRUCTURE NO. 47, College Pond Sewer – 38th and Reservoir Road N.W.
This Structure is a double chamber connecting the 72–inch Combined Sewer to the 21–inch. Sanitary Sewer through an 18–inch dia pipe in the dividing wall. Both sewers continue to Structure No. 46.



PLAN

1" = 20' 20 0 20 40





SECTION A–A

1" = 10' 10 0 10 20

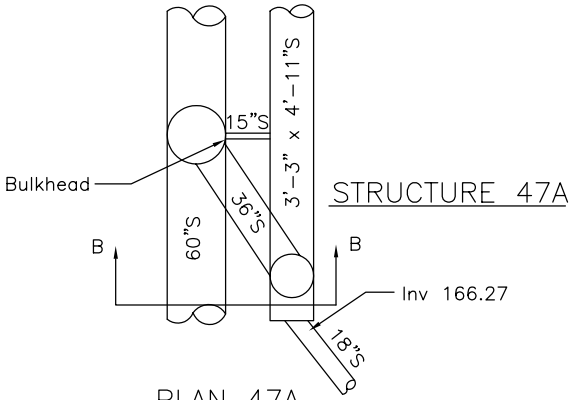
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 029

STRUCTURE NO.
47

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–47 1:1 04/23/04 13:29 GH–G

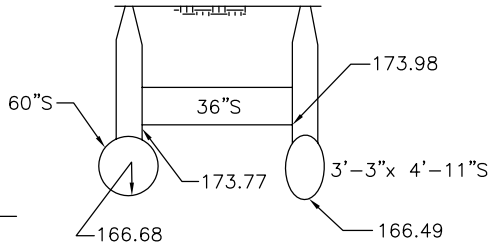
STRUCTURE NOs. 47A & 47B – 37th & T STREETS N.W.
Structure No. 47a has a 36–inch Overflow from the 3'–3"x 4'–11" Combined Sewer to the 60–inch Storm Sewer. Normal Dry Weather Flow is into the 18–inch Sanitary Sewer.

STRUCTURE NO. 47B
Is a Junction Chamber which joins the 60–inch Storm Sewer with the 2'x 3' Combined (abandoned) 3' Storm Sewers and discharges as a 72–inch Sewer. Normal Dry Weather Flow in the 2'x 3' Combined Sewer into the 12–inch Sanitary Sewer.

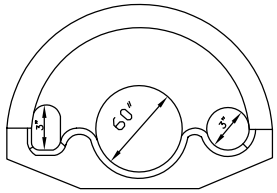


STRUCTURE 47A

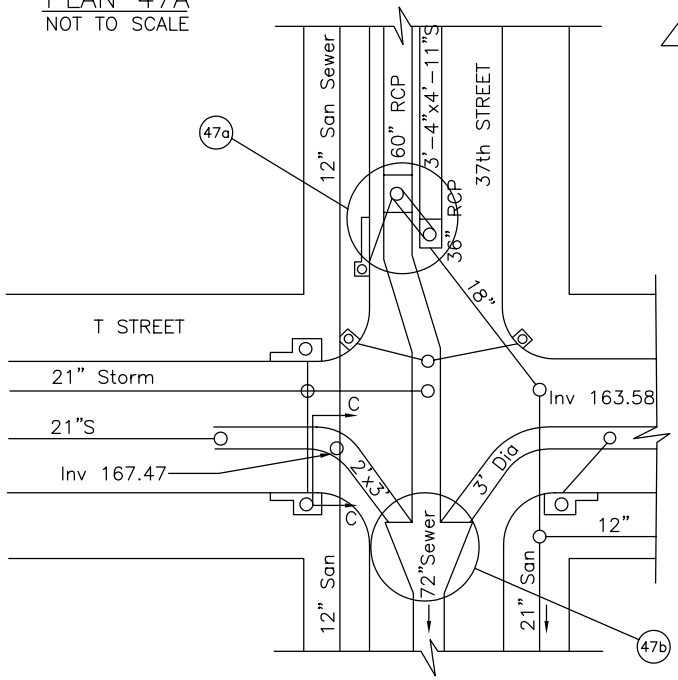
PLAN 47A
NOT TO SCALE



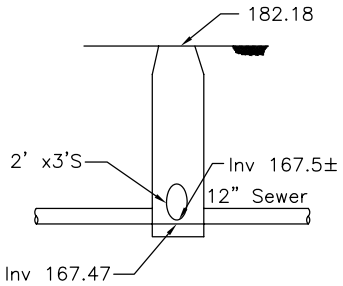
SECTION B–B–47A
NOT TO SCALE



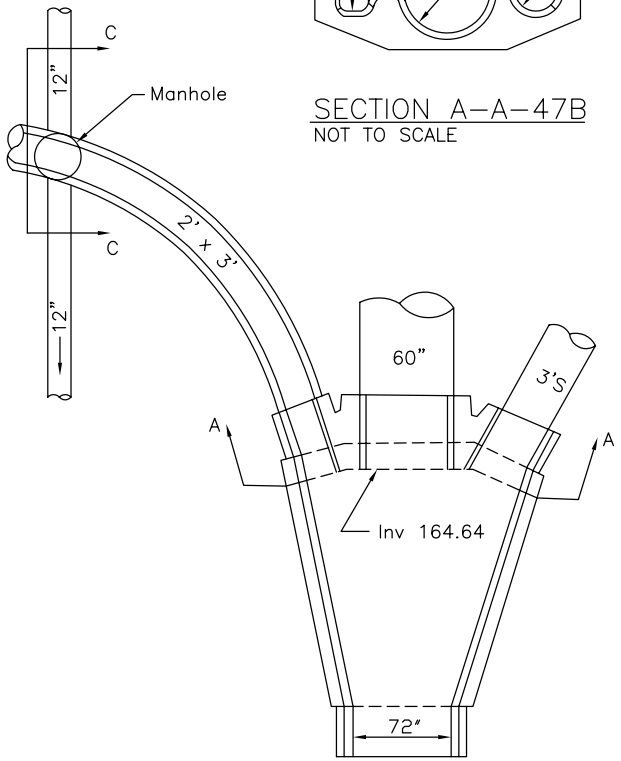
SECTION A–A–47B
NOT TO SCALE



PLAN 47A AND 47B
NOT TO SCALE



SECTION C–C
NOT TO SCALE



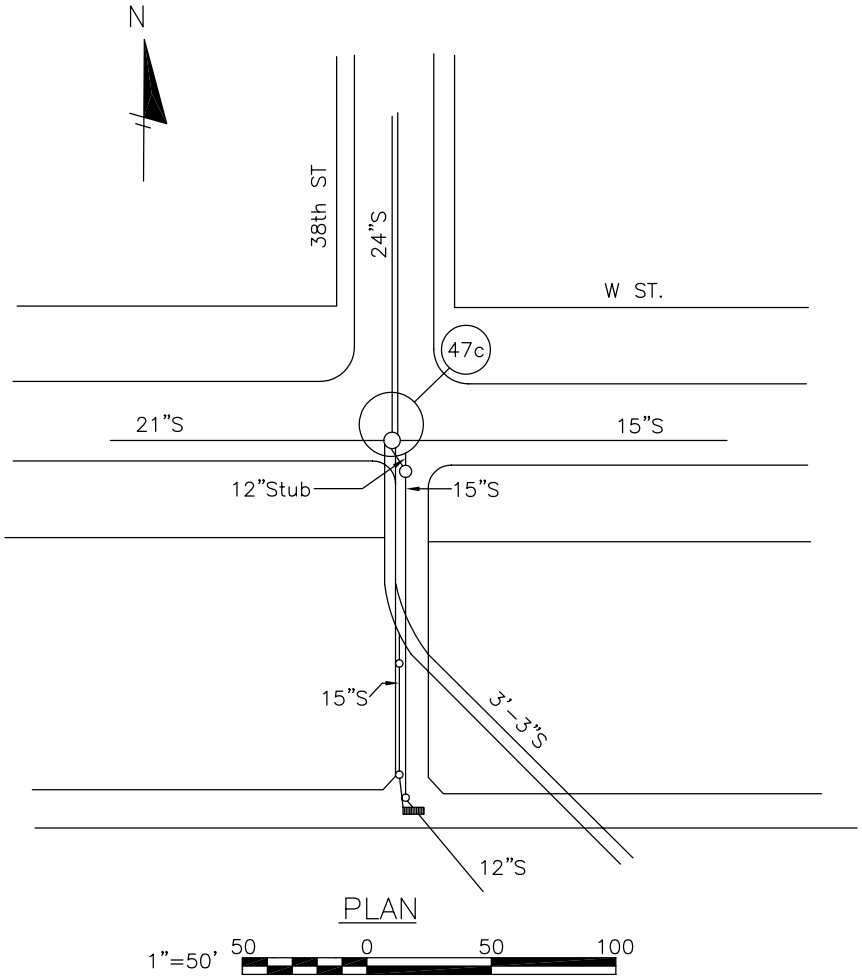
STRUCTURE 47B
NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 029

STRUCTURE NO.
47a, 47b

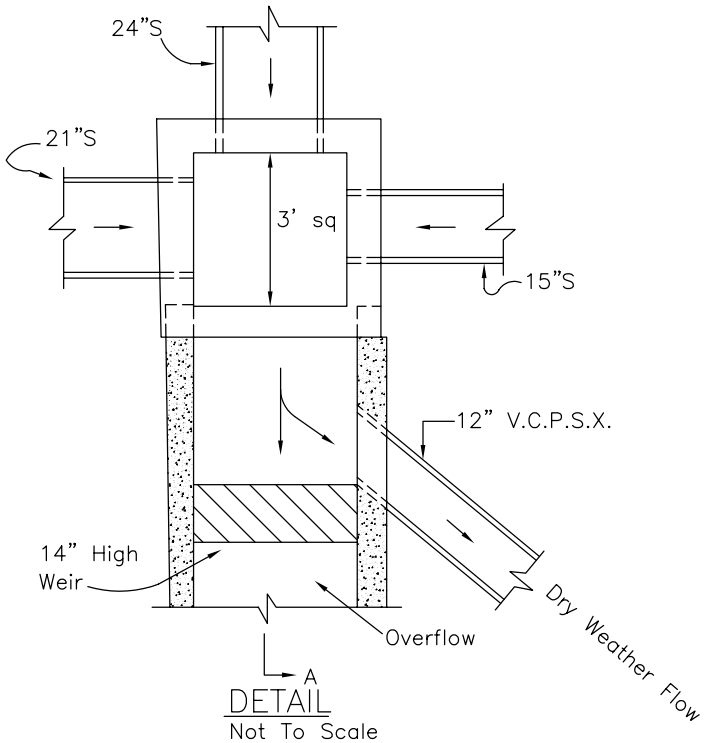
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–47A–47B 1:1 04/23/04 13:31 GH–G

STRUCTURE NO. 47c, 38th and W Street, N.W. Dry Weather Flow in this structure is diverted into a 12–inch sewer by a 14–inch high dam, while Overflow spills over the dam and continues in a 3'–3" diameter line.
(Note: Prior to 1992, this structure was designated as No. 47b)

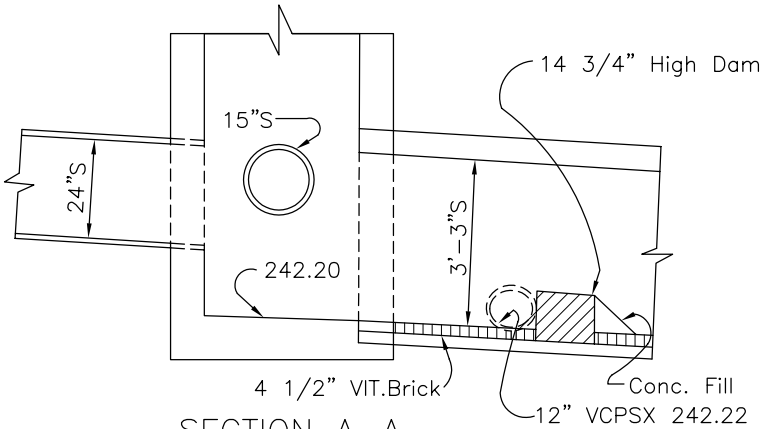


PLAN

1"=50' 50 0 50 100



DETAIL
Not To Scale

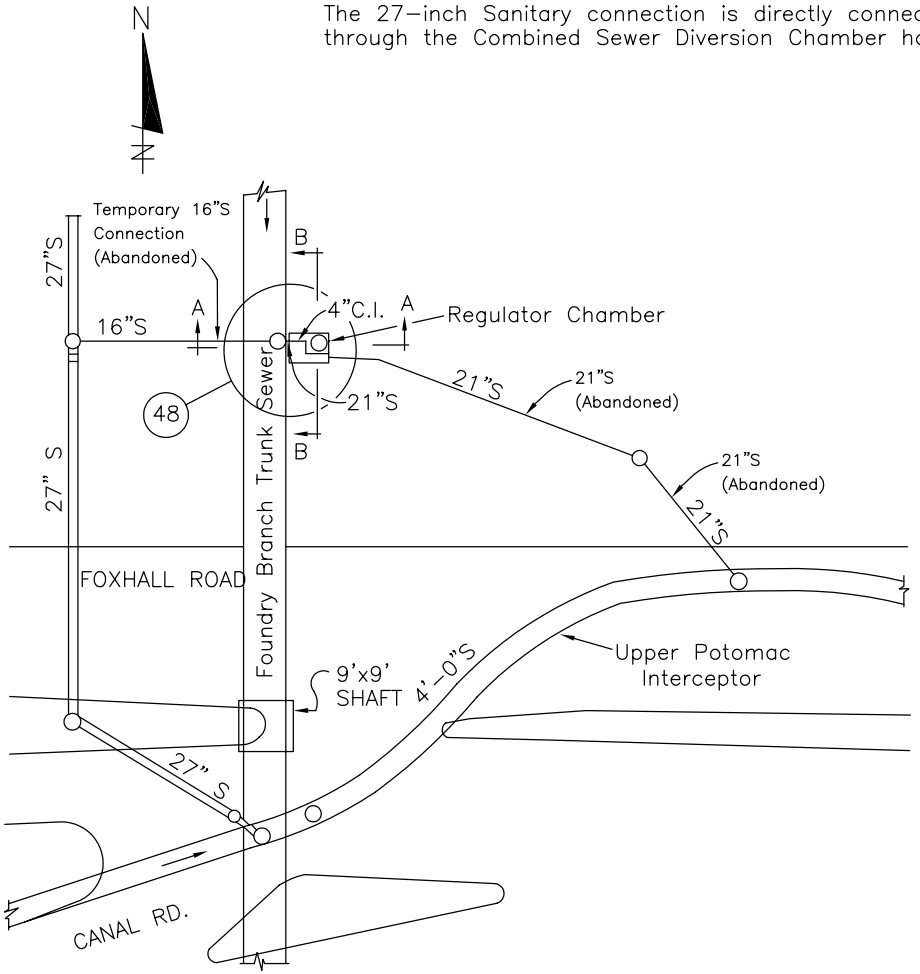


SECTION A–A
Not To Scale

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 029

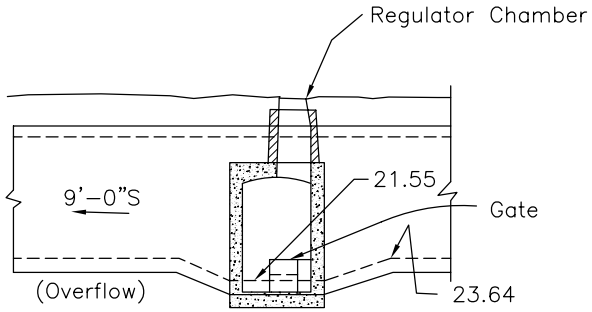
STRUCTURE NO.
47c

The 27-inch Sanitary connection is directly connected to the UPI. The old connection through the Combined Sewer Diversion Chamber has been abandoned.

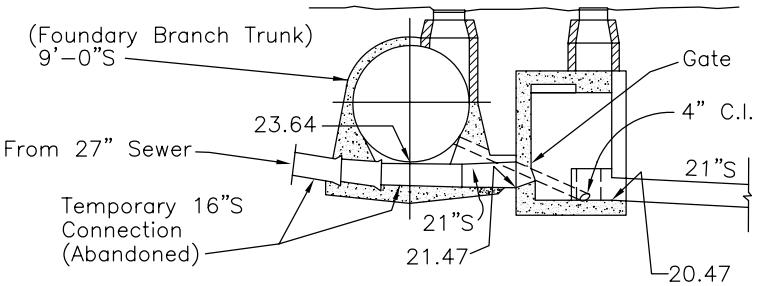


PLAN

1"=30' 30 0 30 60



SECTION B-B



SECTION A-A

DETAIL

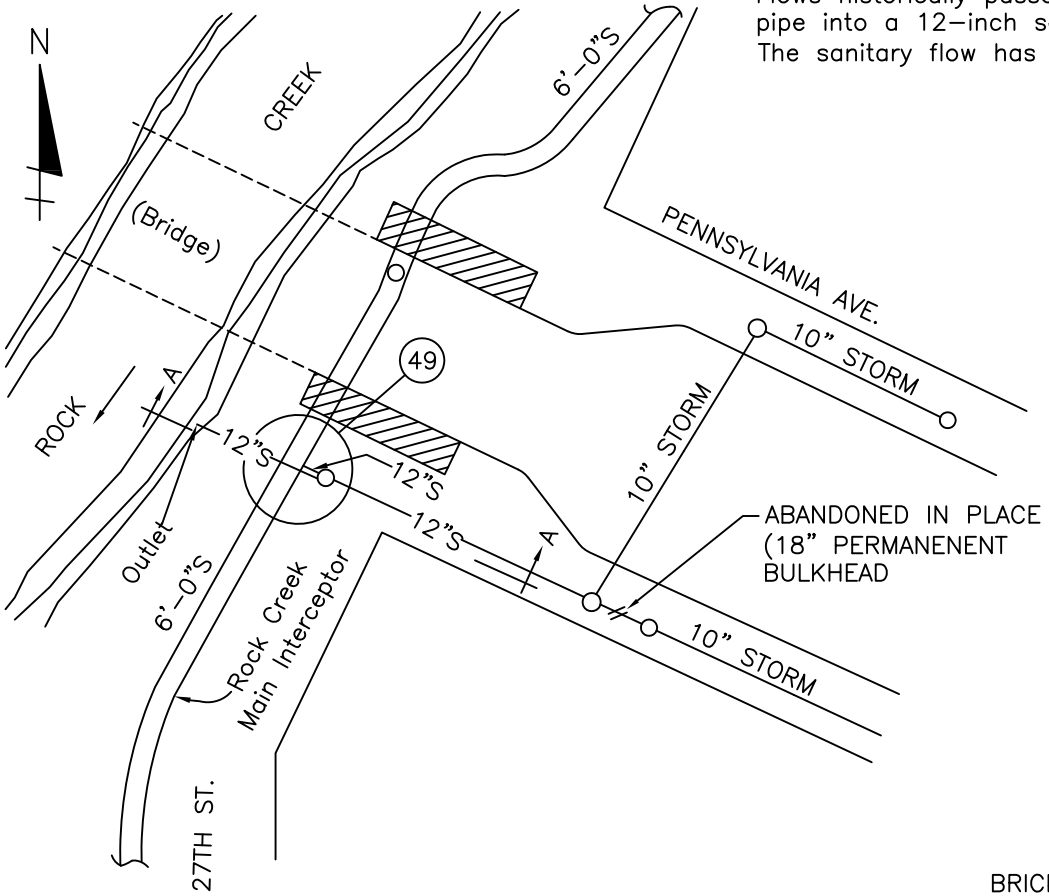
1"=10' 10 0 10 20

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO. 48

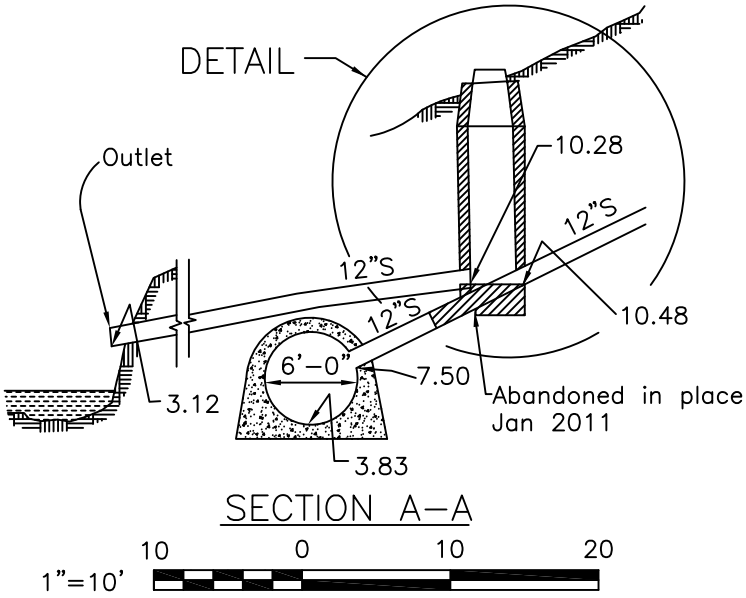
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-48 1:1 04/22/04 11:38 GH-G

STRUCTURE NO.49 Pennsylvania Avenue, N.W. East side of Rock Creek.
A 12–inch Storm Sewer enters this structure, Sanitary Dry Weather Flows historically passed through a short section of 3–inch cast iron pipe into a 12–inch sewer leading to the Rock Creek Main Interceptor. The sanitary flow has been diverted prior to to reaching structure #49.



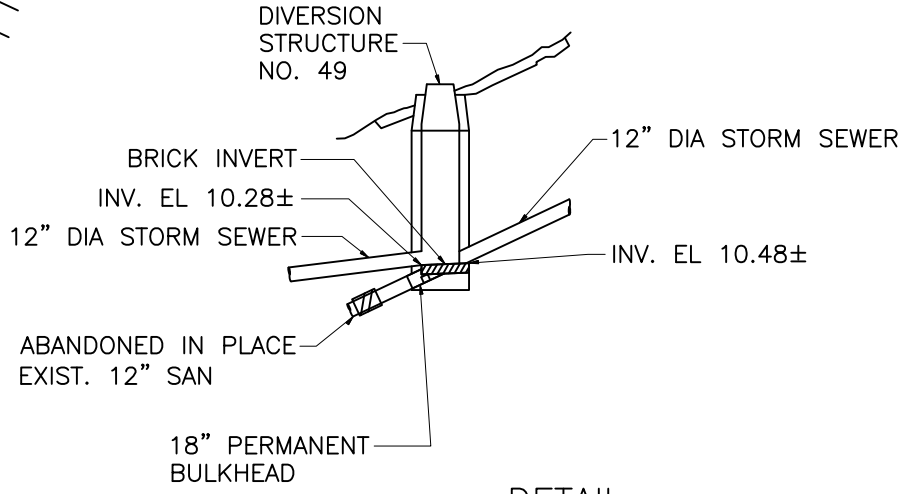
PLAN

1"=50' 50 0 50 100



SECTION A–A

1"=10' 10 0 10 20



THIS OVERFLOW HAS BEEN ELIMINATED BASED ON UPSTREAM SEPARATION

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: FEBRUARY 2012
ASSOCIATED NPDES OUTFALL # 031

DETAIL

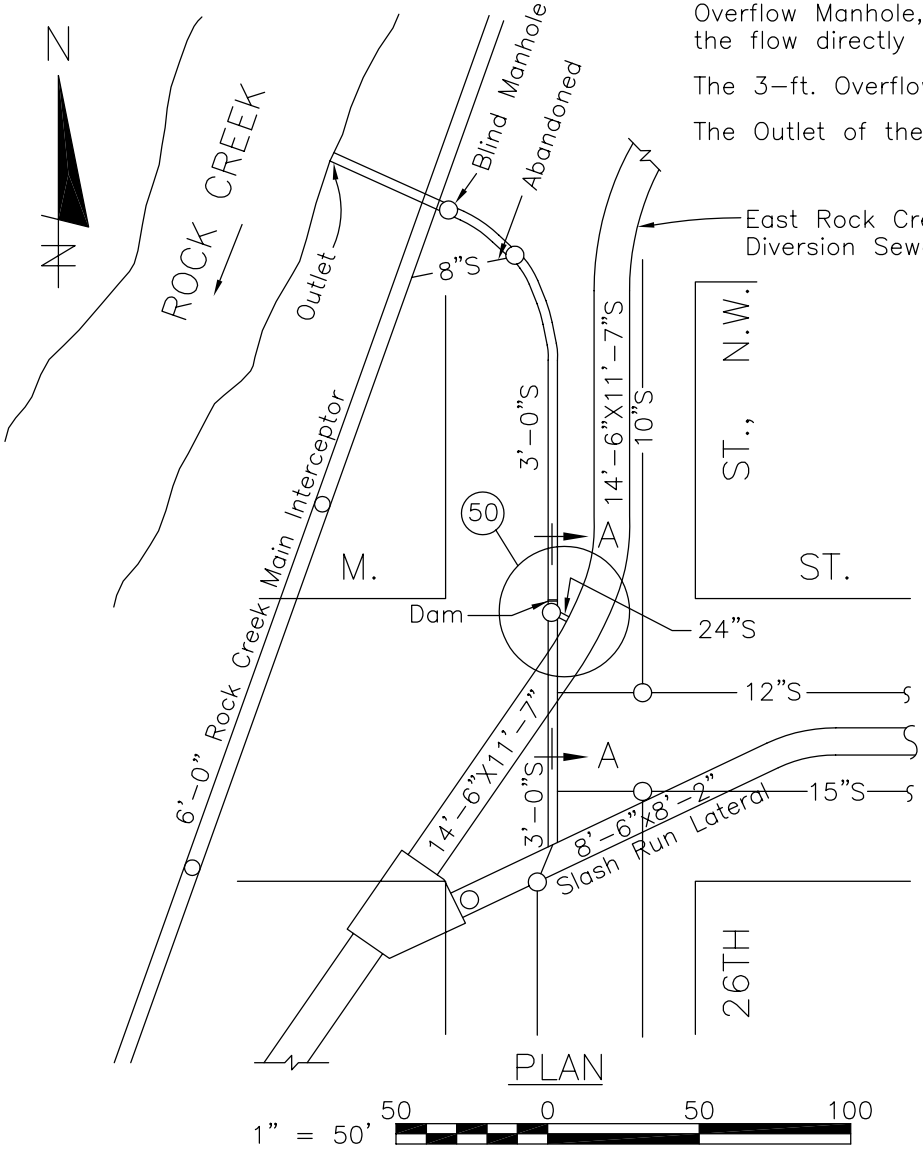
(CSO 031 – DIVERSION STRUCTURE MODIFICATIONS)

STRUCTURE NO. 49

STRUCTURE NO. 50. 26th and M Streets, N.W. This structure has a slot type regulator. The Storm Overflow is formed by a 15–inch masonry dam in a manhole. A 3–ft. diameter Combined Sewer enters the Diversion and Overflow Manhole, and there is a 24–inch diversion connection conveying the flow directly down into the East Rock Creek Diversion Sewer.

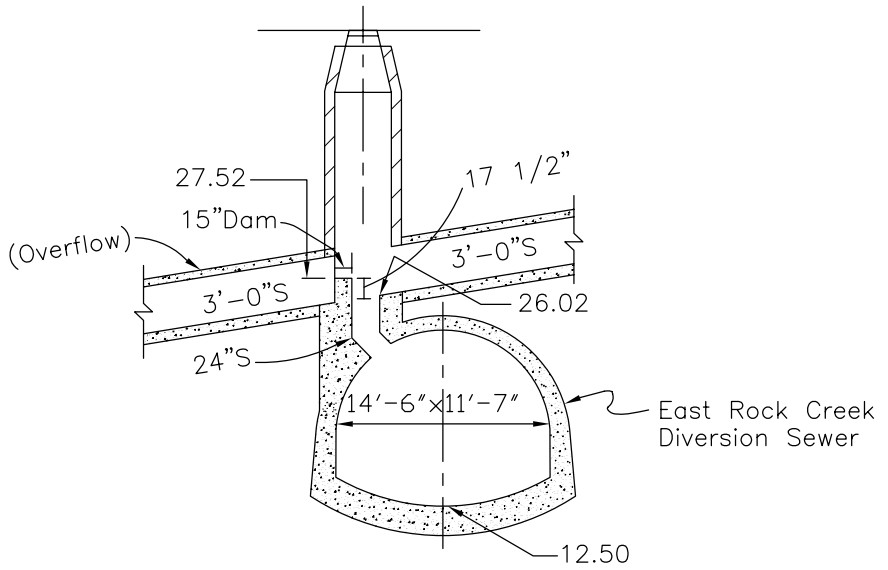
The 3–ft. Overflow line discharges into Rock Creek.

The Outlet of the Overflow line was not visible.



PLAN

1" = 50' 50 0 50 100



SECTION A–A

1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 032

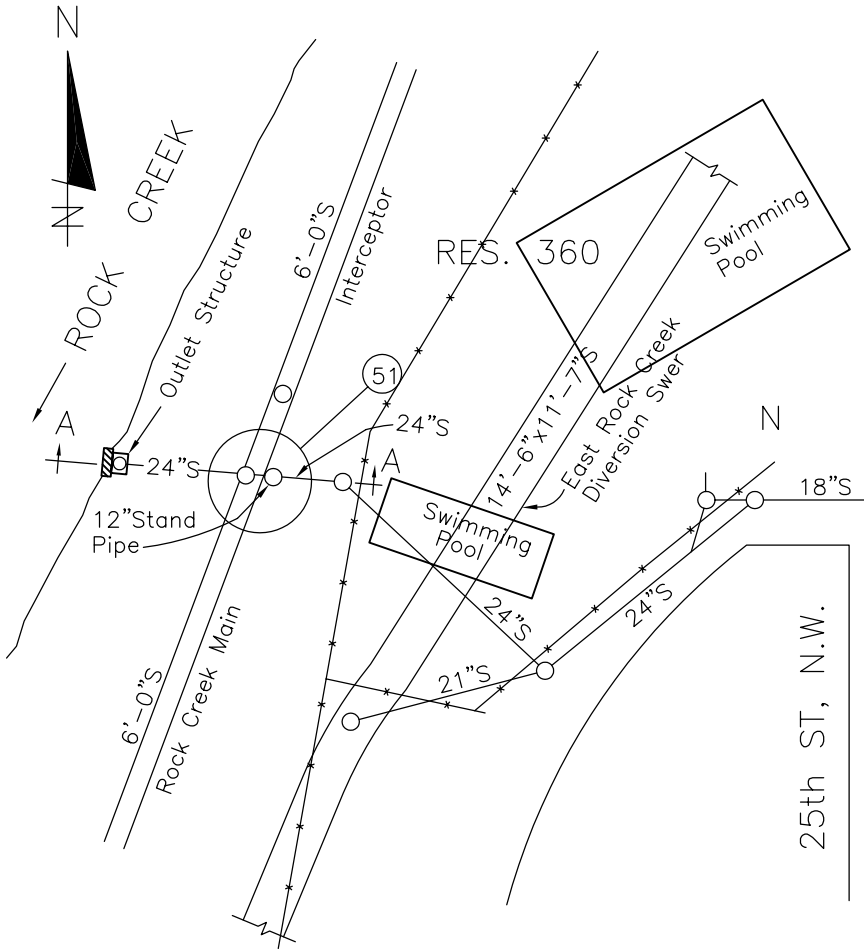
STRUCTURE NO.
50

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–50 1:1 04/23/04 13:42 GH–G

STRUCTURE NO. 51. N Street, Extended West of 25th Street, N.W. This structure has a slot-type regulator. The Storm Overflow is formed by a masonry dam. A 24-inch Combined Sewer enters the overflow manhole at a high elevation. From the 24-inch sewer there is a vertical 10-inch drop-connection to the bottom of the manhole. There is a 9-inch dam in the 24-inch sewer, downstream from the drop connection. At the bottom of the manhole, there is a vertical 18-inch intercepting connection conveying the Dry-Weather Flow into the Rock Creek Main Interceptor. West of the intercepting connection, there is a 2-ft, 6-in, high dam.

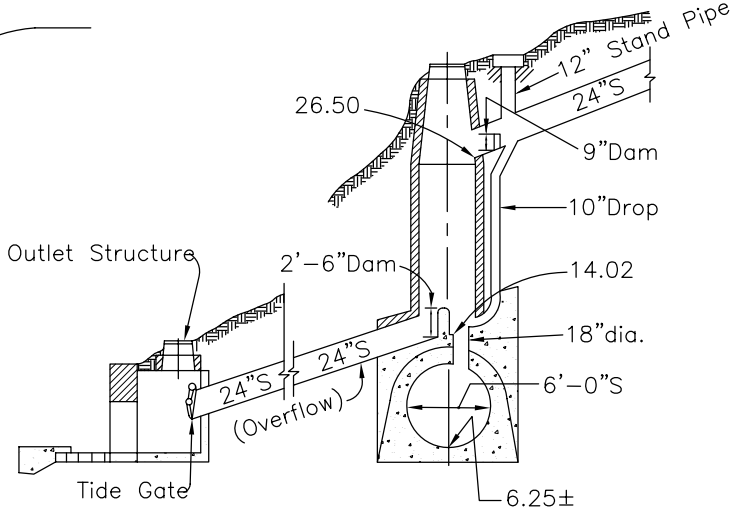
The 24-inch Overflow line discharges into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.



PLAN

1" = 50' 50 0 50 100



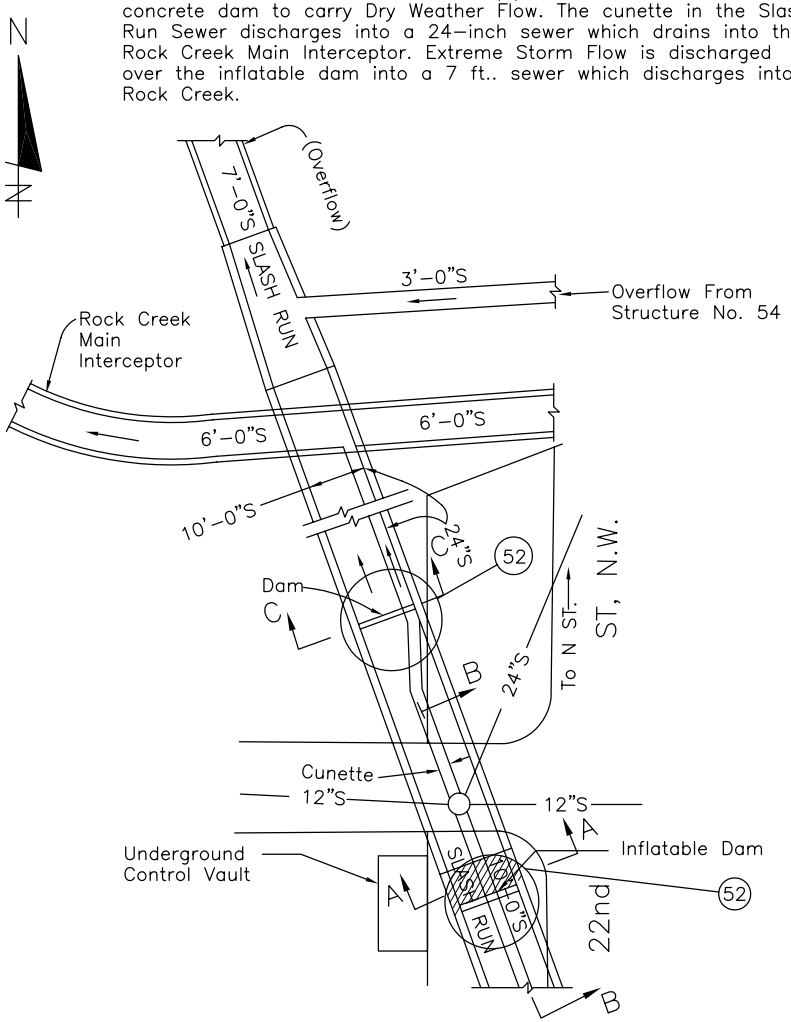
SECTION A-A

1" = 10' 10 0 10 20

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 033

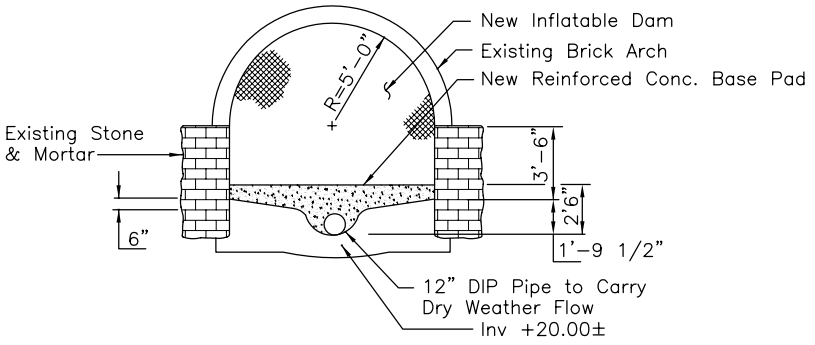
STRUCTURE NO.
51

STRUCTURE NO. 52 – Slash Run Trunk Sewer, Northwest of 22nd and M Streets N.W. This sewer serves as a Storm Overflow for Combined Sewage Flow from Structures No. 53 and No. 53a. There is a masonry dam on which is constructed an inflatable dam in the 10 ft. Slash Run Sewer. A 12–inch pipe is cast in the base of the concrete dam to carry Dry Weather Flow. The cunette in the Slash Run Sewer discharges into a 24–inch sewer which drains into the Rock Creek Main Interceptor. Extreme Storm Flow is discharged over the inflatable dam into a 7 ft.. sewer which discharges into Rock Creek.

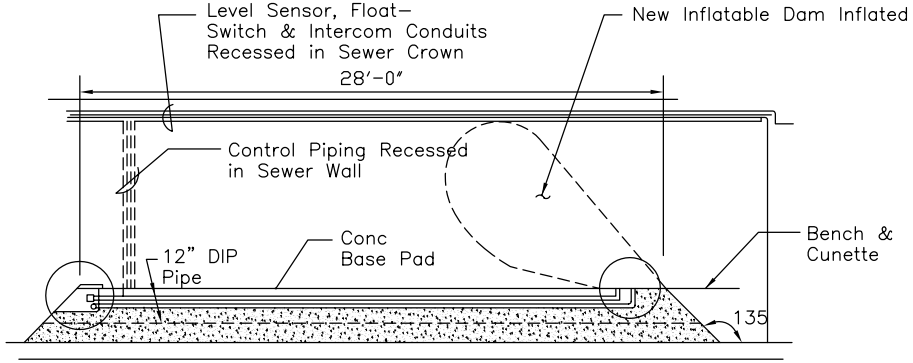


PLAN

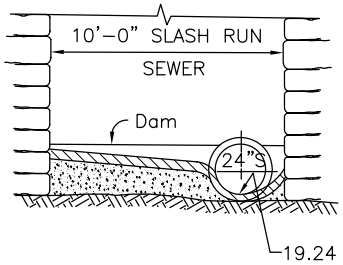
1" = 50' 50 0 50 100



SECTION A–A
NO SCALE



SECTION B–B
NO SCALE



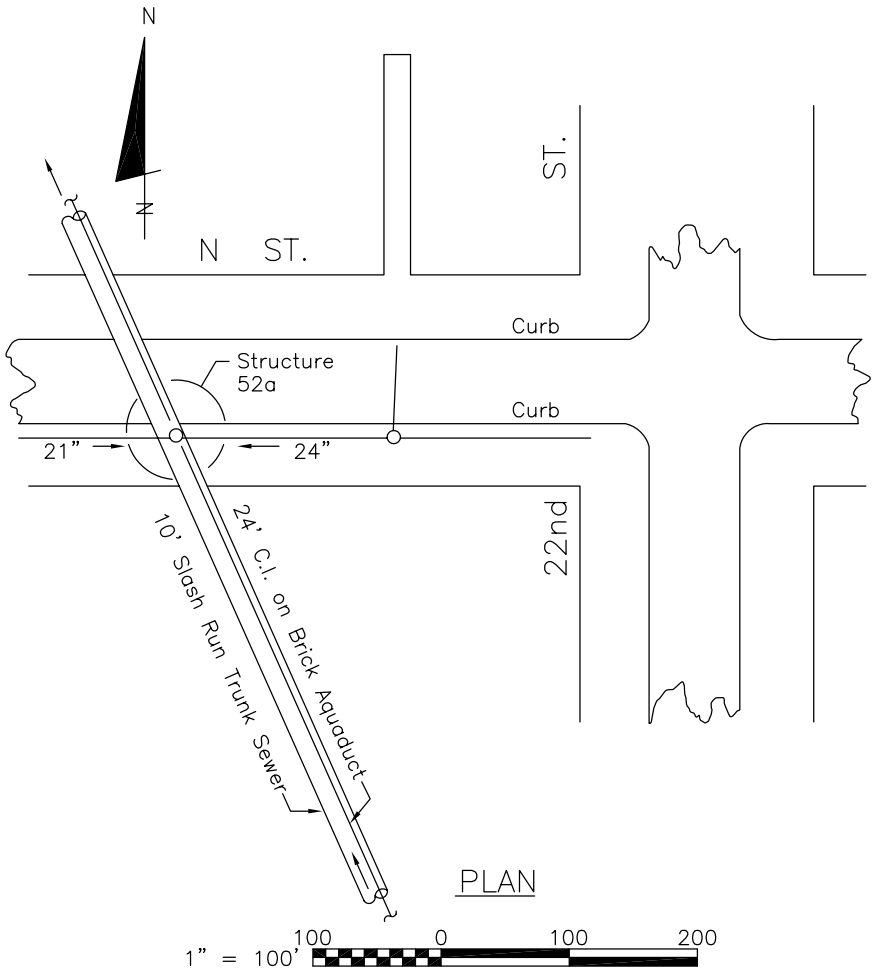
SECTION C–C
NO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 034

STRUCTURE NO. 52

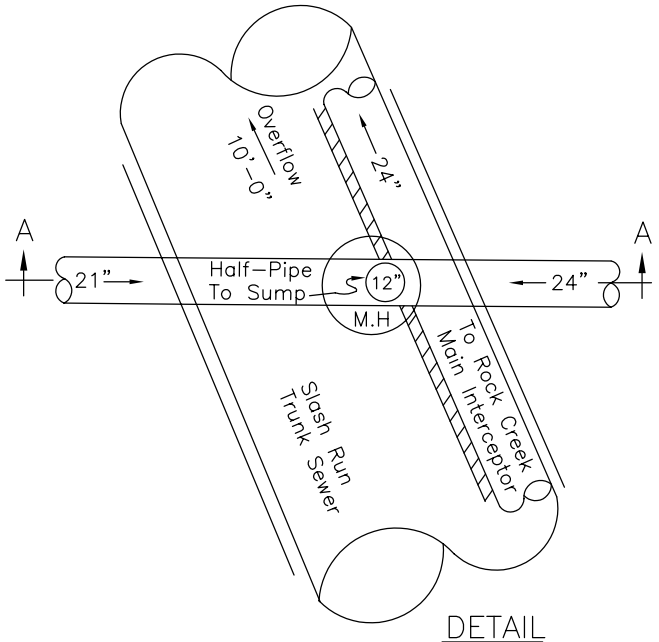
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–52 1:1 04/23/04 13:46 GH–G

STRUCTURE NO. 52a, N. St between 22nd and 23rd Sts, N.W. Flows approach this structure in both the 21–inch and the 24–inch sewers and are intercepted via a vertical 12–inch line to the 24–inch Interceptor that originates at Structure No. 52. Higher flows approaching the manhole spill over the sides of the half pipe into the 10'–0" Slash Run Trunk Sewer Overflow to Rock Creek.

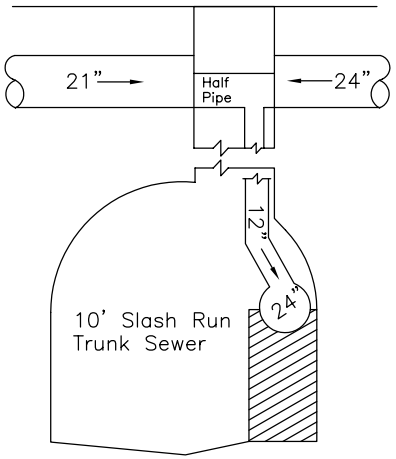


PLAN

1" = 100' 100 0 100 200



DETAIL



SECTION A–A

1" = 5' 5 0 5 10

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 034

STRUCTURE NO.
52a

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-52A 1:1 04/23/04 13:49 GH-G

STRUCTURE NO. 53, Slash Run Trunk Sewer, 22nd and M Street, N.W.
This structure has a cunette–type regulator. The Storm Overflow is formed by the continuation of the 10–ft. Slash Run Trunk Sewer beyond the Diversion Structure. The 10–ft. horseshoe Combined Slash Run Trunk Sewer enters the Diversion Chamber and the diversion is formed by depressing the cunette and turning it to the west where it develops into a 5–ft. 6–in. circular diversion connection. This connection discharges into the 8–ft. 6–in. horseshoe sewer, called the Slash Run Lateral Sewer, which in turn discharges into the East Rock Creek Diversion Sewer, at 26th and M Streets, N.W.

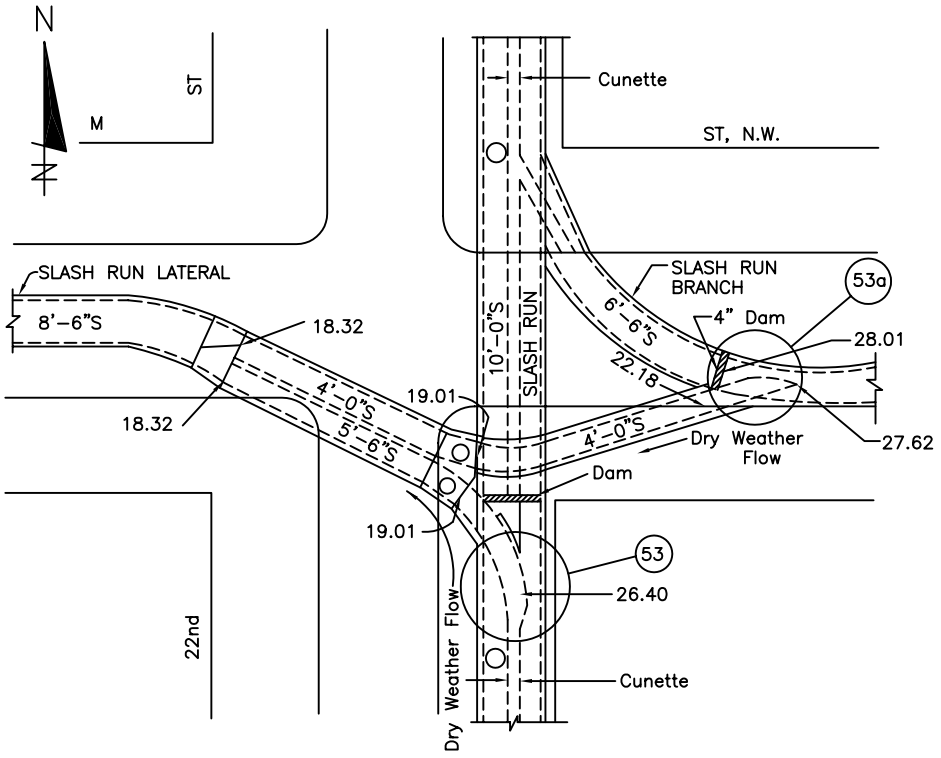
The Overflow line is further protected by a masonry dam about 4–inches higher than the berms of the Diversion Chamber. The Overflow line discharges eventually into Rock Creek.

This diversion connection operates in conjunction with a similar diversion connection from the Slash Run Branch Sewer, at the same intersection. The other structure being termed Structure No. 53a.

STRUCTURE NO. 53a, Slash Run Branch Sewer. This structure has a sump–type regulator. The Storm Overflow is formed by the continuation of the 6–ft. 6–in. Slash Run Branch Sewer and the 10–ft. Slash Run Trunk Sewer beyond the Diversion Structure. The 6–ft. 6–in. horseshoe Slash Run Branch Sewer enters the Diversion Chamber, and the diversion is formed by depressing the invert into a cunette. which develops into a 48–inch diameter diversion connection. The connection discharges into the 8–ft. 6–in. horseshoe sewer, called the Slash Run Lateral Sewer, which in turn discharges into the East Rock Creek Diversion Sewer.

The Overflow line is protected further by a low dam. The Overflow line discharges into the Slash Run Trunk Sewer, Which discharges eventually into Rock Creek.

The diversion connection operates in conjunction with a similar diversion connection from the Slash Run Trunk Sewer, at the same intersection. The other structure being termed Structure No. 53.



PLAN

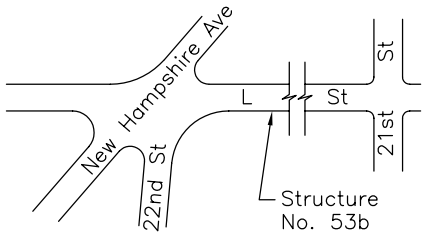
1"=20' 20 0 20 40

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 022, 034

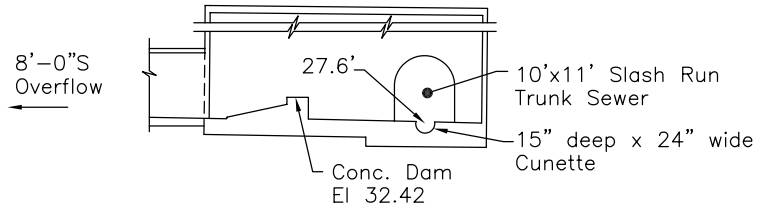
STRUCTURE NO.
53, 53a

STRUCTURE NO. 53b. L St between 21st St and New Hampshire Ave, N.W.
Principal flows enter this structure from the east via two large Combined Sewers, one 9 ft. circular and the other 10 ft. by 11 ft. Dry Weather Flow is contained within a cunette and split. with a portion continuing northwest in the Slash Run Trunk Sewer and a portion diverted by a 30–inch line into two 16" sewers going under the Control Structure.

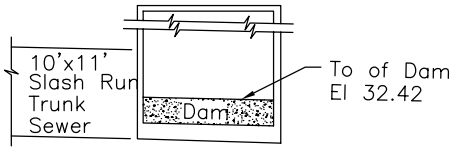
Overflows spill over a masonry weir and continue westerly in an 8' diameter sewer, ultimately to the Potomac River.



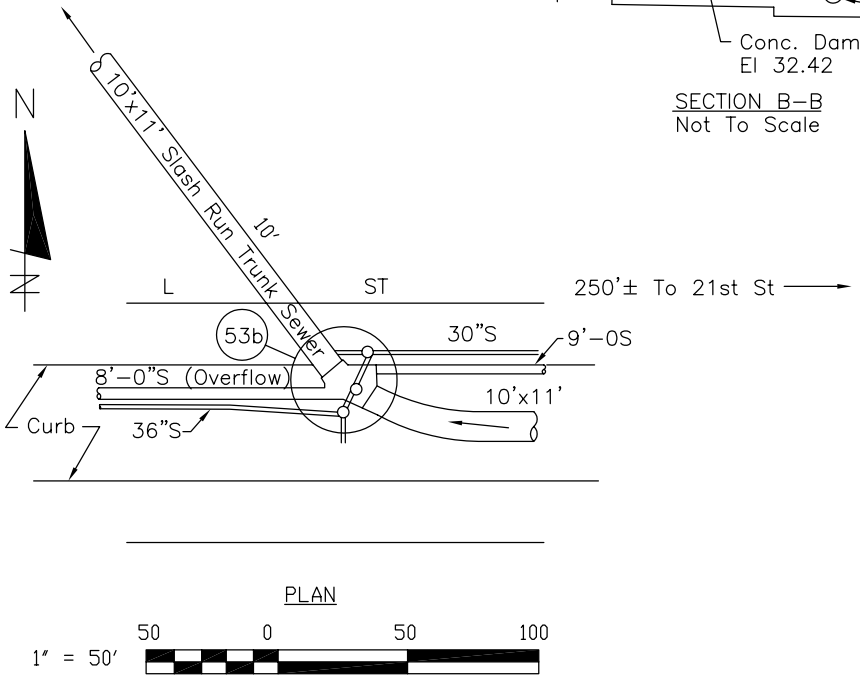
LOCATION PLAN



SECTION B–B
Not To Scale

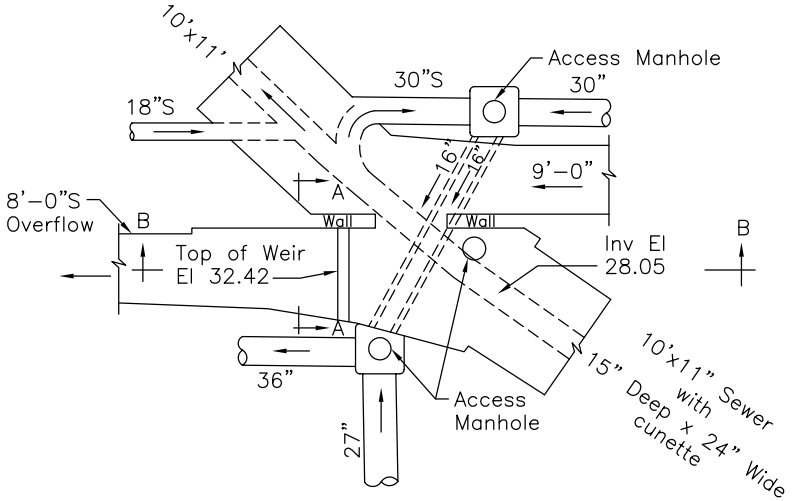


SECTION A–A
Not To Scale



PLAN

1" = 50'
50 0 50 100



DETAIL
Not To Scale

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 022, 034

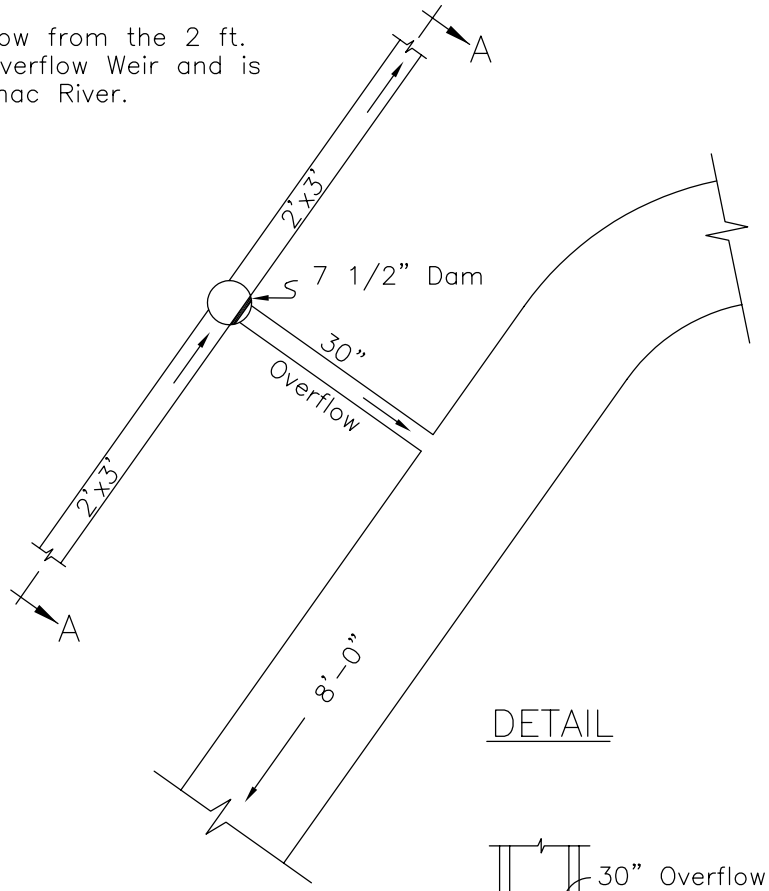
STRUCTURE NO.
53b

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-53B 1:1 04/23/04 13:50 GH-G

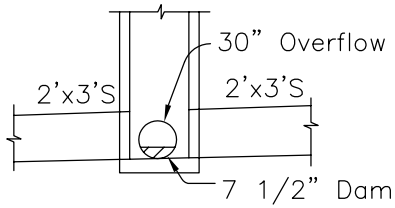
STRUCTURE NO. 53c, L and 22nd Streets, N.W. Overflow from the 2 ft. by 3 ft. Combined Sewer spills over a 6-inch side Overflow Weir and is carried away by 30-inch line, ultimately to the Potomac River.

PLAN

1" = 50' (50 0 50 100)



DETAIL



SECTION A-A

1" = 10' (10 0 10 20)

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 022

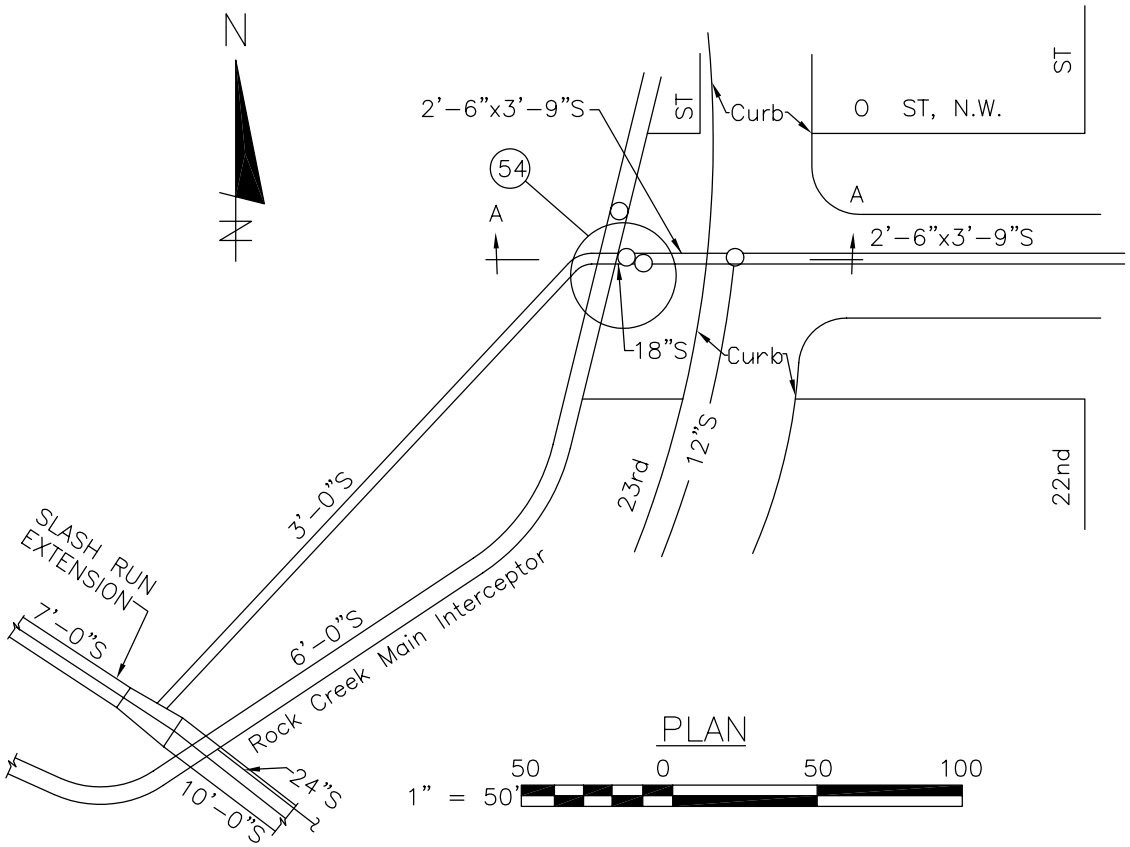
STRUCTURE NO. 53c

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-53C 1:1 04/23/04 13:52 GH-G

STRUCTURE NO. 54. O Street , West of 23rd Street, N.W.

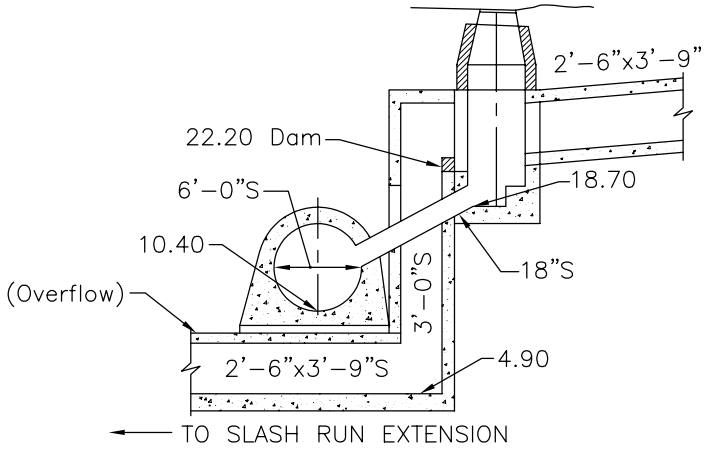
This structutre has a sump type regulator. The Storm Overflow is formed by a concrete dam in a manhole. A 2–ft. 6–in. by 3–ft. 9–in. egg–shaped Combined Sewer enters the diversion manhole and an 18–in. intercepting connection conveys the Dry–Weather Flow into the Rock Creek Main Interceptor.

The 3–ft. Overflow line discharges into the Slash Run Trunk Sewer Overflow line, and then continues to Rock Creek.



PLAN

1" = 50' 50 0 50 100



SECTION A–A

1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 034

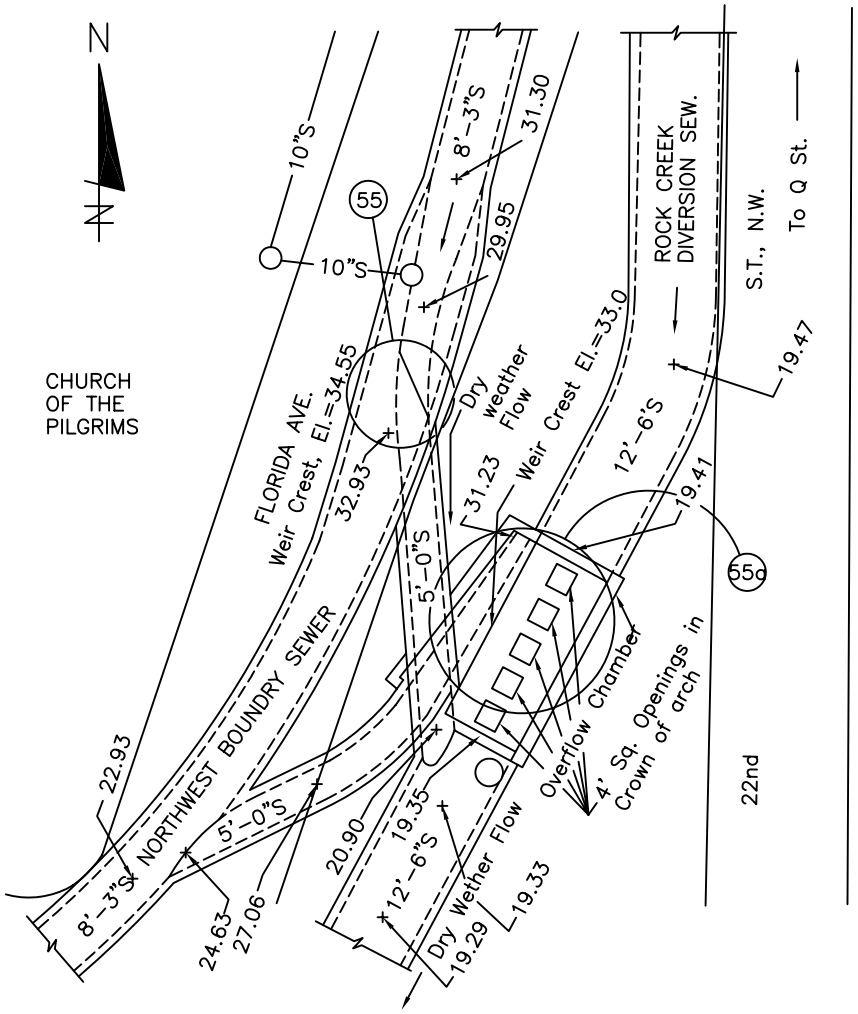
STRUCTURE NO. 54

STRUCTURE NO. 55, Northwest Boudnary Trunk Sewer, 22nd Street south of Q Street, N.W. This structure has a cunette–type regulator. The Storm Overflow is formed by a raised portion of the invert which acts as a dam The 8–ft. 3–in. Combined Northwest Boundary Trunk Sewer enters the Chamber, and a 5–ft. diversion connection conveys the Dry–Weather Flow into the East Rock Creek Diversion Sewer.

The 8–ft. 3–in. Overflow line discharges into Rock Creek.

STRUCTURE NO. 55a, East Rock Creek Diversion Sewer. This is strickly an Overflow Structure. The Storm Overflow is formed by five 4–ft. by 4–ft. square openings in the crown of the 12–ft. 6–in. East Rock Creek Diversion Sewer. The 12–ft. 6–in. sewer passes through the Overflow Structure without change in size, shape or slope.

The Overflow functions only if and when the East Rock Creek Diversion Sewer becomes surcharged. The Overflow is conveyed to Rock Creek through the Northwest Boundary Trunk Sewer.



PLAN

1" = 20' (20 0 20 40)

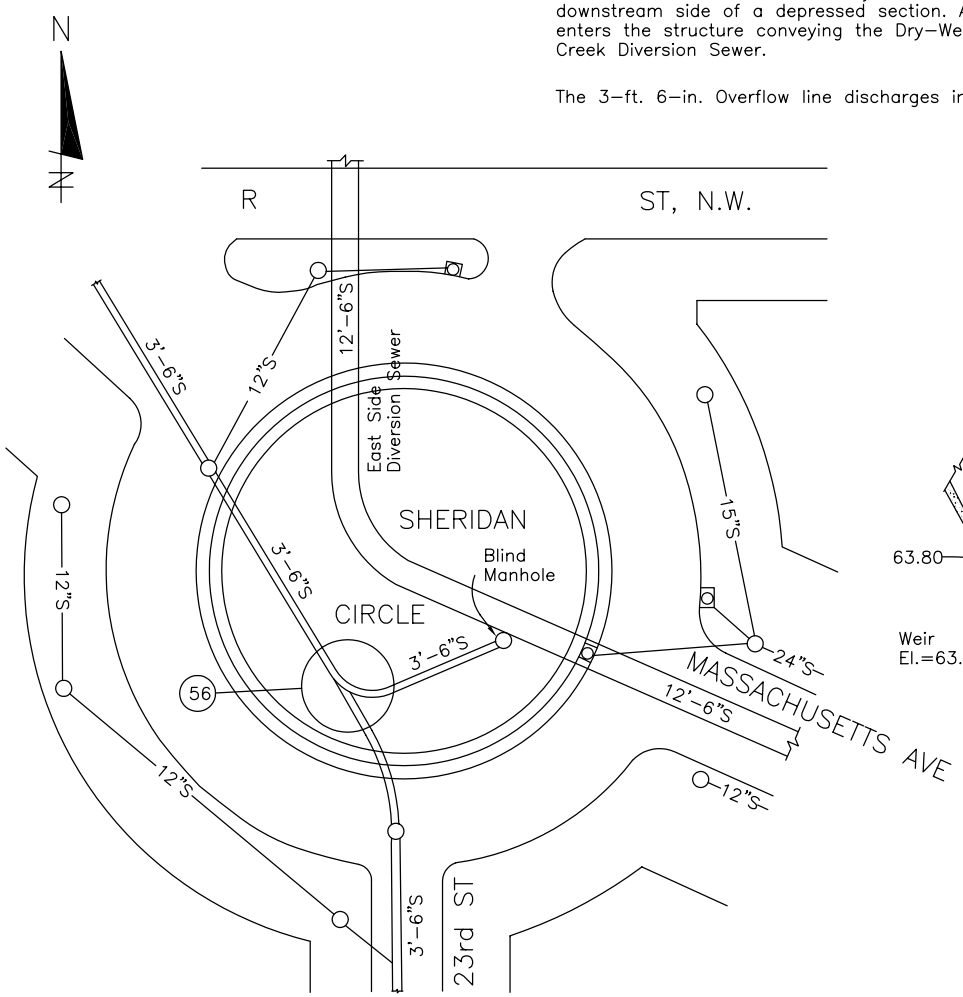
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 035

STRUCTURE NO.
55, 55a

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-55 1:1 04/23/04 13:55 GH-G

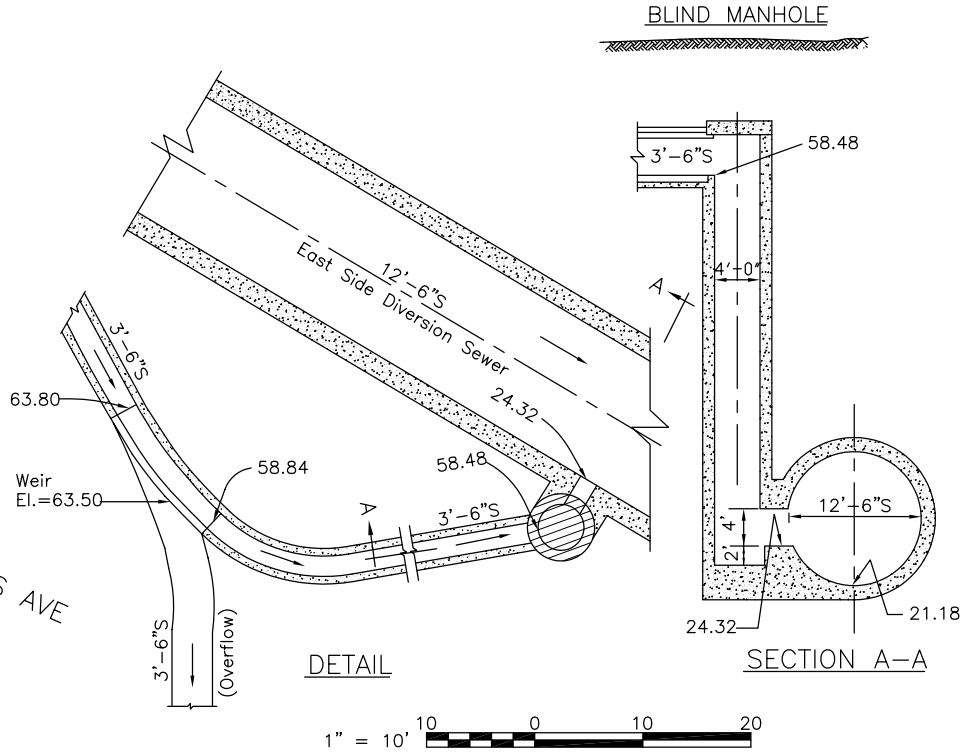
STRUCTURE NO. 56, Sheridan Circle, 23rd Street and Massachusetts Avenue, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by a continuation of the invert of the downstream side of a depressed section. A 3-ft. 6-in. Combined Sewer enters the structure conveying the Dry-Weather Flow into the East Rock Creek Diversion Sewer.

The 3-ft. 6-in. Overflow line discharges into Rock Creek.



PLAN

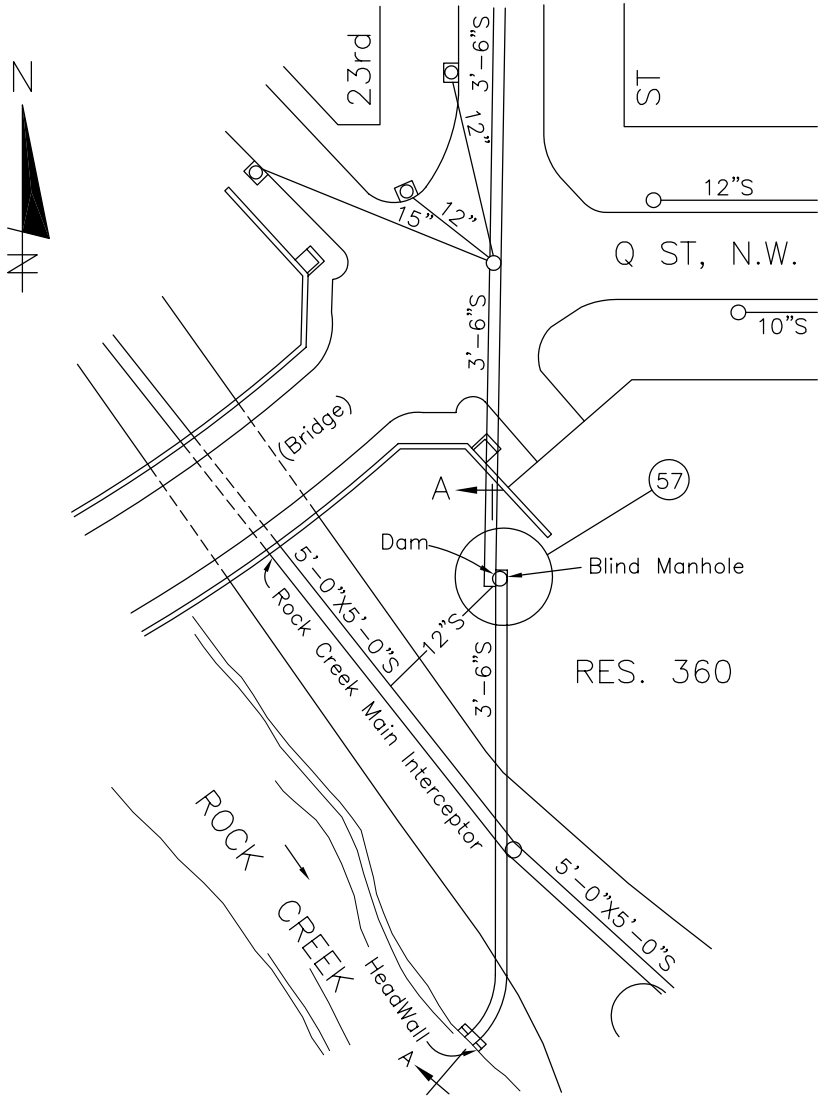
1" = 50' 50 0 50 100



1" = 10' 10 0 10 20

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 036

STRUCTURE NO.
56



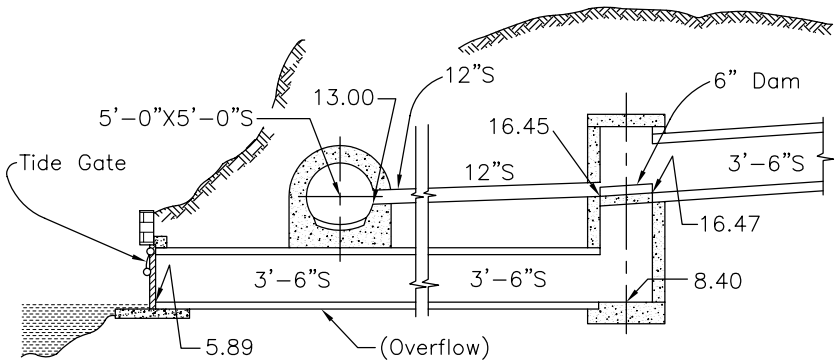
PLAN

1" = 50' 50 0 50 100

STRUCTURE NO. 57, 23rd Street south of Q Street, N.W.
This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam. A 3-ft. Combined Sewer enters the overflow manhole and a 12-inch intercepting connection conveys the Dry-Weather Flow into the Rock Creek Main Interceptor.

The 3-ft. 6-in. Overflow line discharges into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.



SECTION A-A

1" = 10' 10 0 10 20

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 036

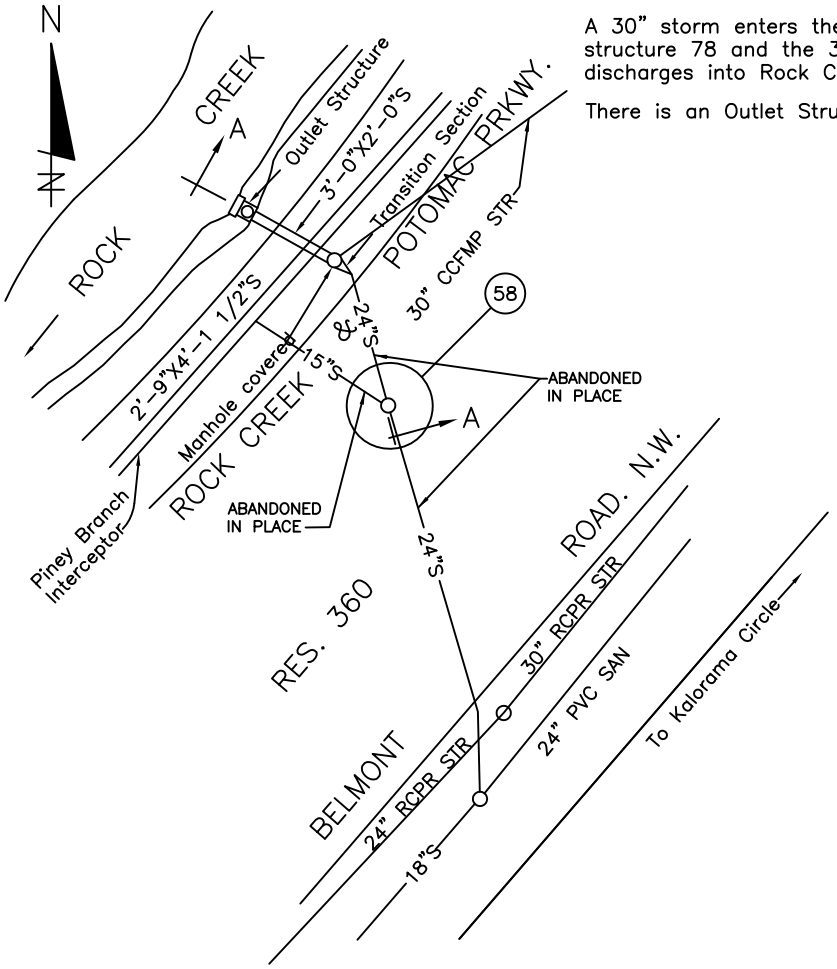
STRUCTURE NO.
57

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-57 1:1 04/23/04 14:38 GH-G

STRUCTURE NO. 58, Northwest of Belmont Road and Rock Creek Potomac Parkway, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by the elevated position of the overflow pipe.

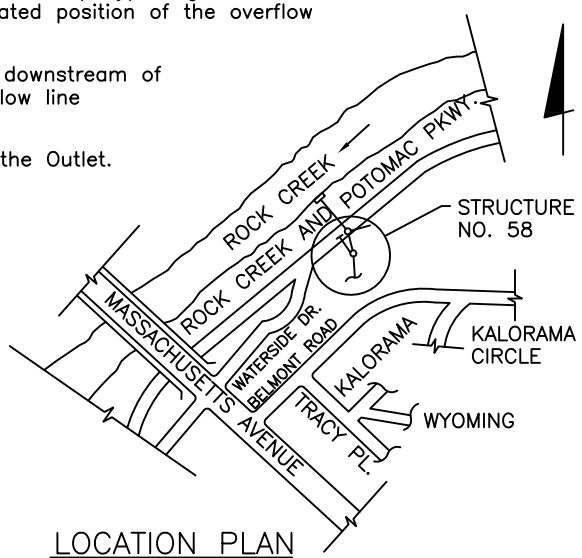
A 30" storm enters the overflow manhole downstream of structure 78 and the 3-ft. by 2-ft. Overflow line discharges into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.



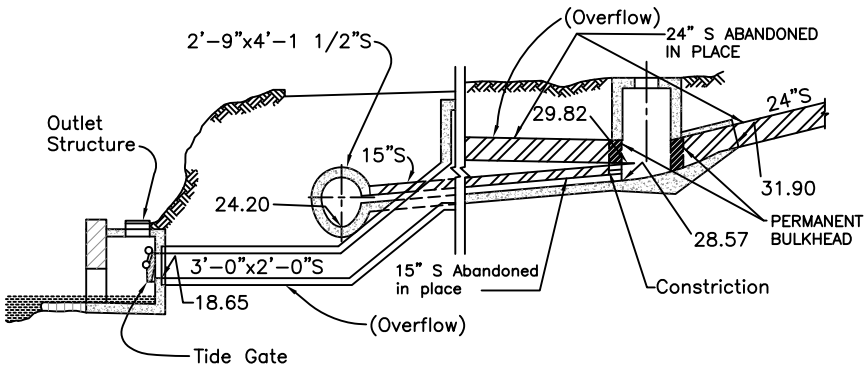
PLAN

1" = 50' 50 0 50 100



LOCATION PLAN

NOT TO SCALE



SECTION A-A

1" = 10' 10 0 10 20

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: FEBRUARY 2012
ASSOCIATED NPDES OUTFALL # 037

THIS OVERFLOW HAS BEEN ELIMINATED BASED ON UPSTREAM SEPARATION

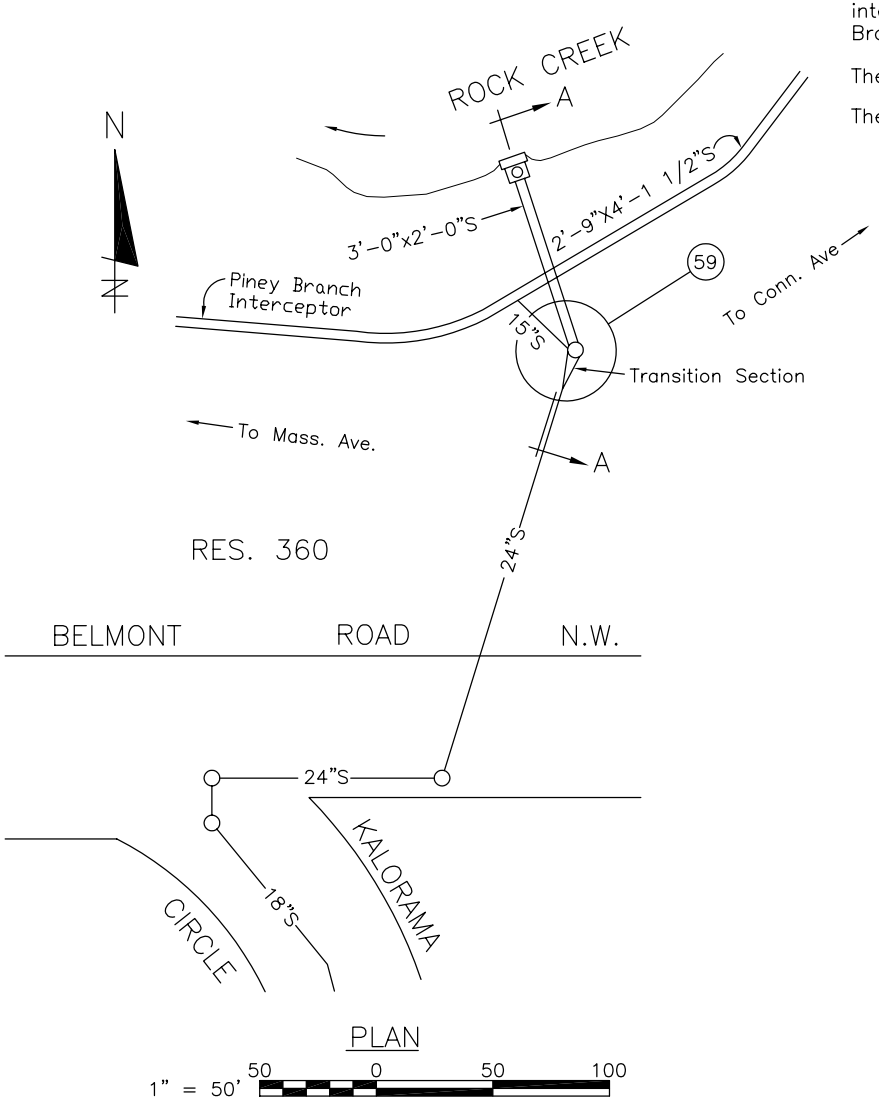
STRUCTURE NO. 58

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-58 1:1 04/23/04 14:40 GH-G

STRUCTURE NO. 59. North of Belmont Road and East of Kalorama Circle, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by the elevated position of the Overflow pipe. A 24-inch Combined Sewer enters the overflow manhole and a 15-inch intercepting connection conveys the Dry-Weather Flow into the Piney Branch Interceptor.

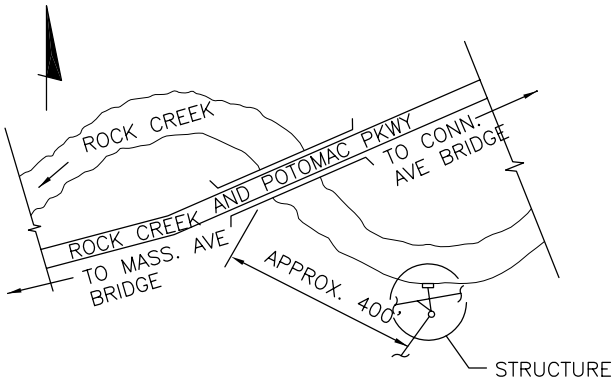
The 3-ft. by 2-ft. Overflow line discharges into Rock Creek.

There in an Outlet Structure and Gate at the Outlet.



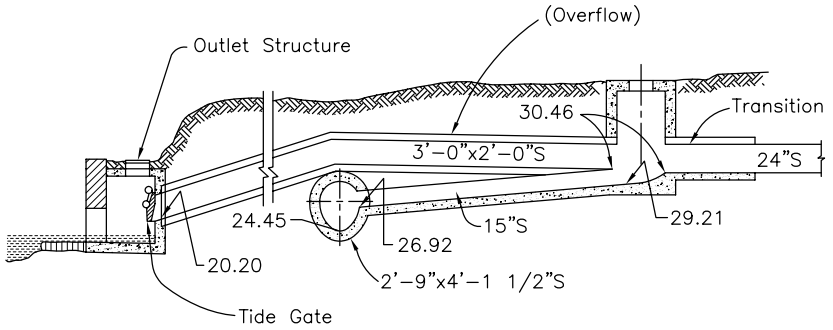
PLAN

1" = 50' 50 0 50 100



LOCATION PLAN

NOT TO SCALE



SECTION A-A

1" = 10' 10 0 10 20

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 038

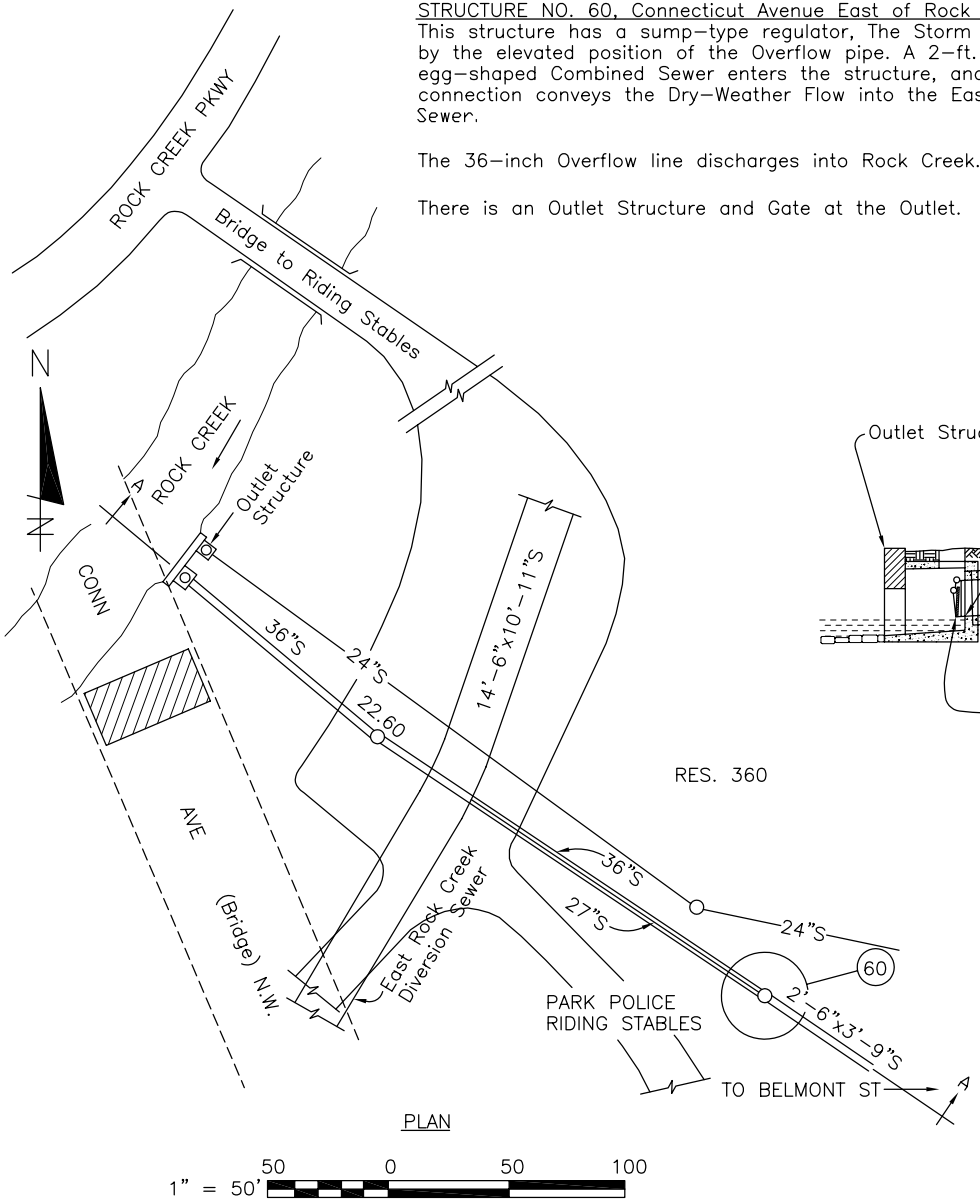
STRUCTURE NO. 59

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-59 1:1 04/23/04 14:41 GH-G

STRUCTURE NO. 60, Connecticut Avenue East of Rock Creek, N.W.
This structure has a sump–type regulator, The Storm Overflow is formed by the elevated position of the Overflow pipe. A 2–ft. 6–in. by 3–ft. 9–in. egg–shaped Combined Sewer enters the structure, and a 27–inch diversion connection conveys the Dry–Weather Flow into the East Rock Creek Diversion Sewer.

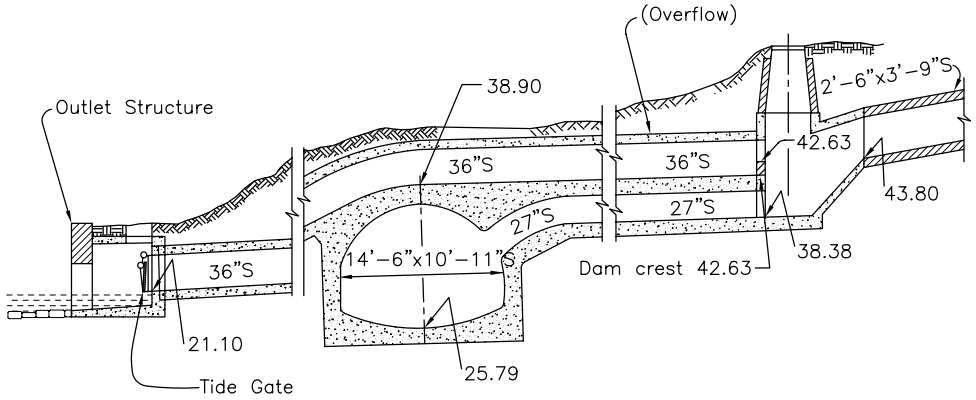
The 36–inch Overflow line discharges into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.



PLAN

1" = 50' (50 0 50 100)



SECTION A–A

1" = 10' (10 0 10 20)

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 039

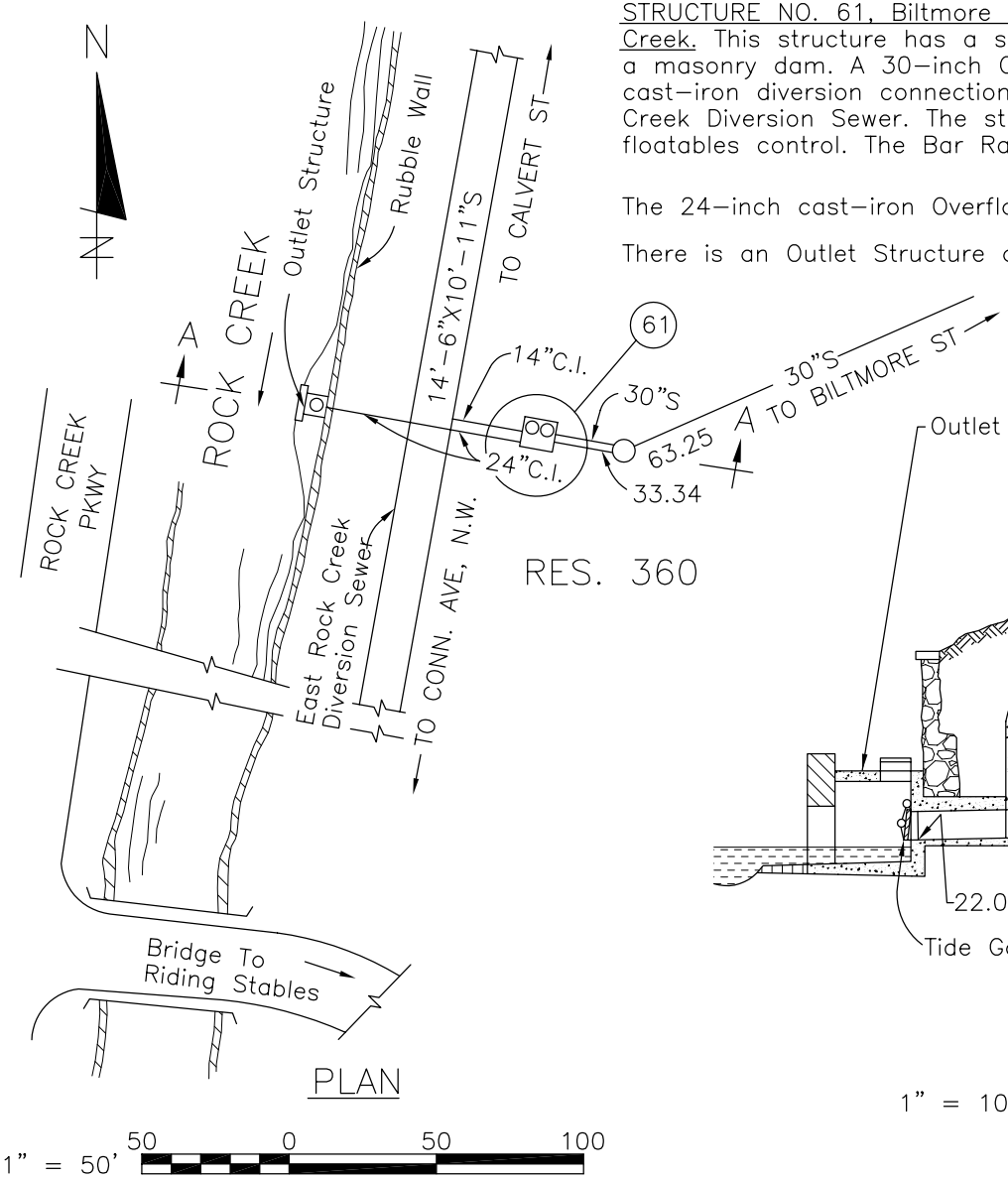
STRUCTURE NO.
60

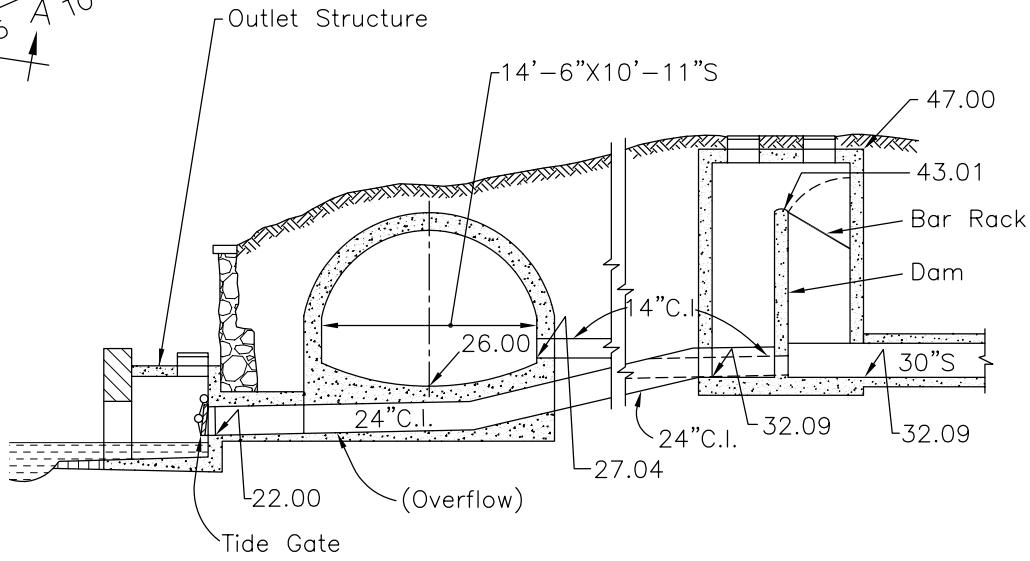
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–60 1:1 04/23/04 14:47 GH–G

STRUCTURE NO. 61, Biltmore Street, Extended, East of Rock Creek. This structure has a sump-type regulator. The Storm Overflow is formed by a masonry dam. A 30-inch Combined Sewer enters the structure and a 14-inch cast-iron diversion connection conveys the Dry-Weather Flow into the East Rock Creek Diversion Sewer. The structure includes a Bar Rack that provides solids and floatables control. The Bar Rack rotates up if it becomes blinded.

The 24-inch cast-iron Overflow line discharges into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.





SECTION A-A

1" = 10' 10 0 10 20

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 040

STRUCTURE NO. 61

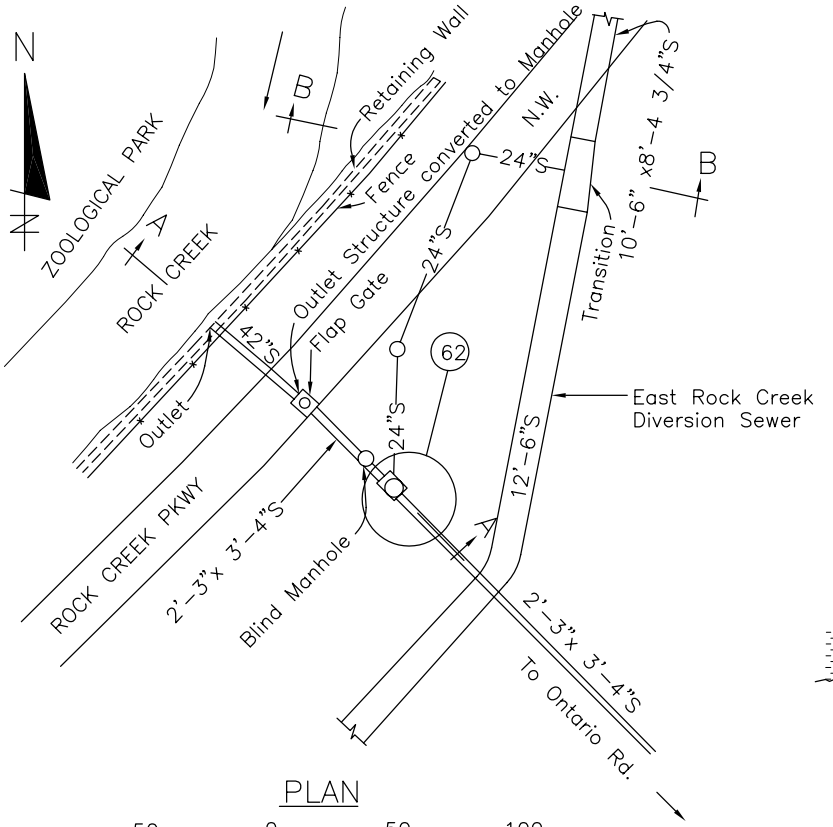
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-61 1:1 04/23/04 14:50 GH-G

STRUCTURE NO. 62, Ontario Road, Extended, and Rock Creek Parkway

This structure has a sump–type regulator. The Storm Overflow is formed by a masonry dam. A 2–ft. 3–in. by 3–ft. 4–in. egg–shaped Combined Sewer enters the structure and a 24–in. diversion connection conveys the Dry–Weather Flow to the East Rock Creek Diversion Sewer. The structure includes a Bar Rack that provides solids and floatables control. The Bar Rack rotates up if it becomes blinded.

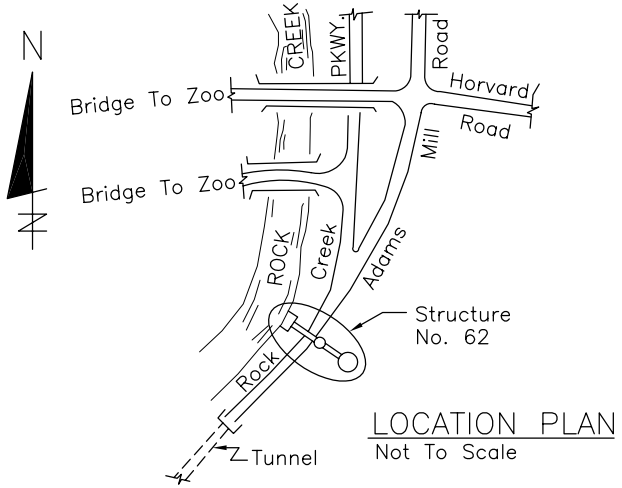
The 2–ft. 3–in. by 3–ft. 4–in. Overflow line discharges into Rock Creek.

There is a Flap Gate in a manhole midway between the Overflow Structure and Rock Creek.

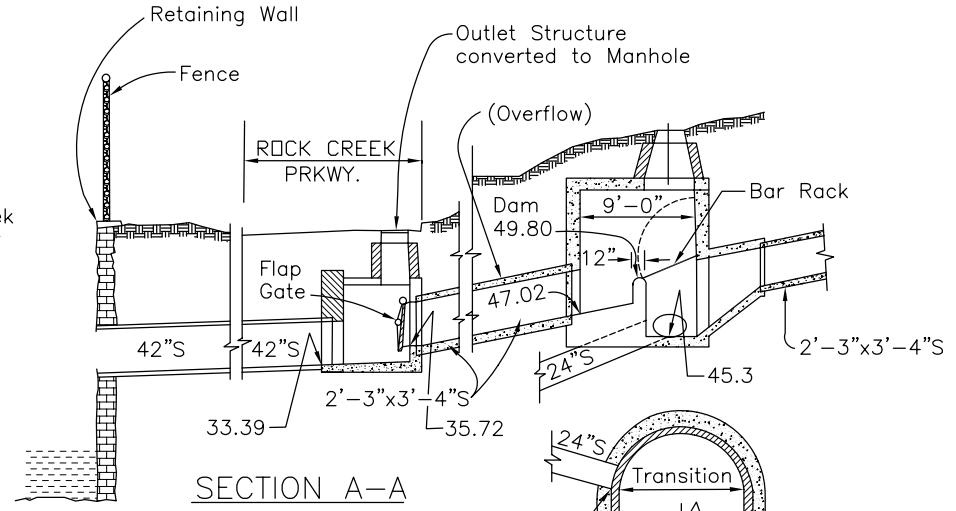


PLAN

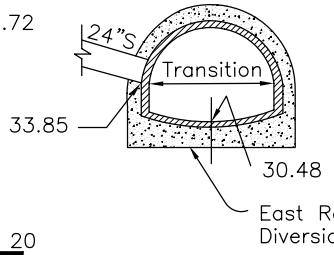
1"=50 50 0 50 100



LOCATION PLAN
Not To Scale



SECTION A–A



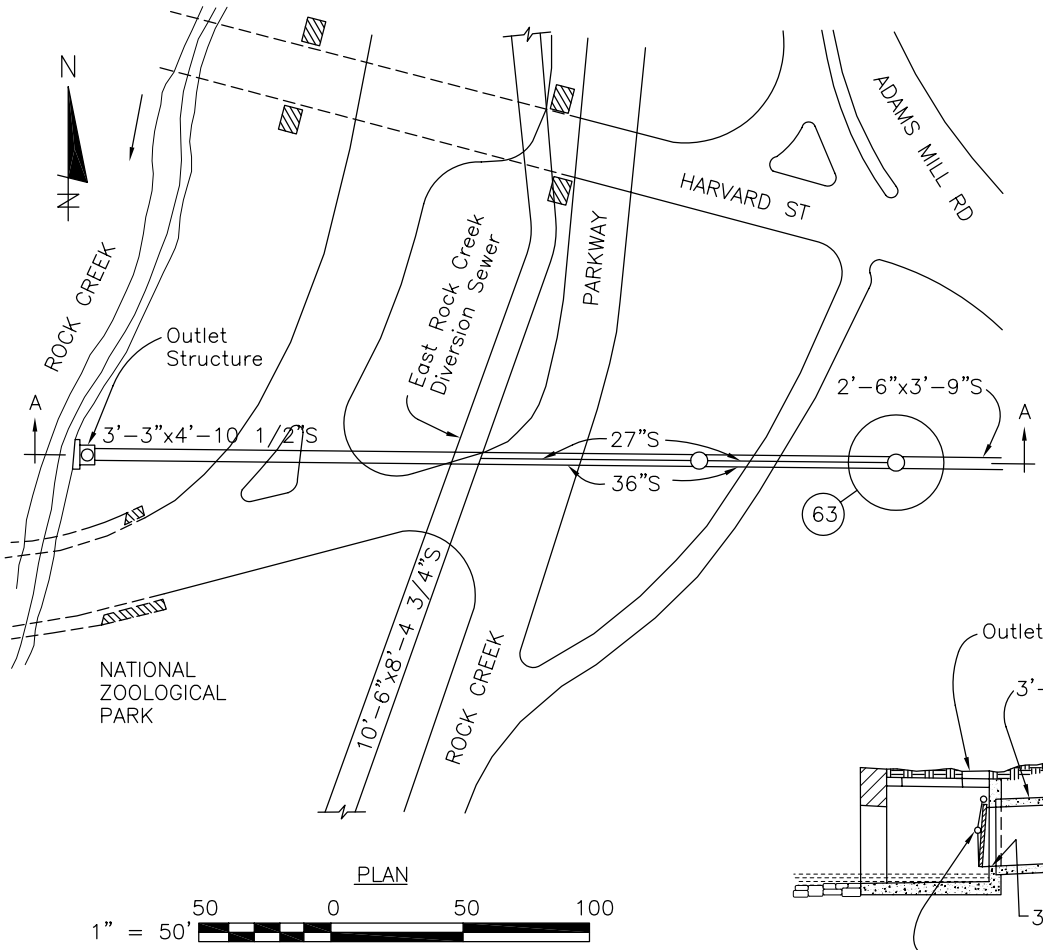
SECTION B–B

1"=10 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 041

STRUCTURE NO. 62

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–62 1:1 04/23/04 14:52 GH–G



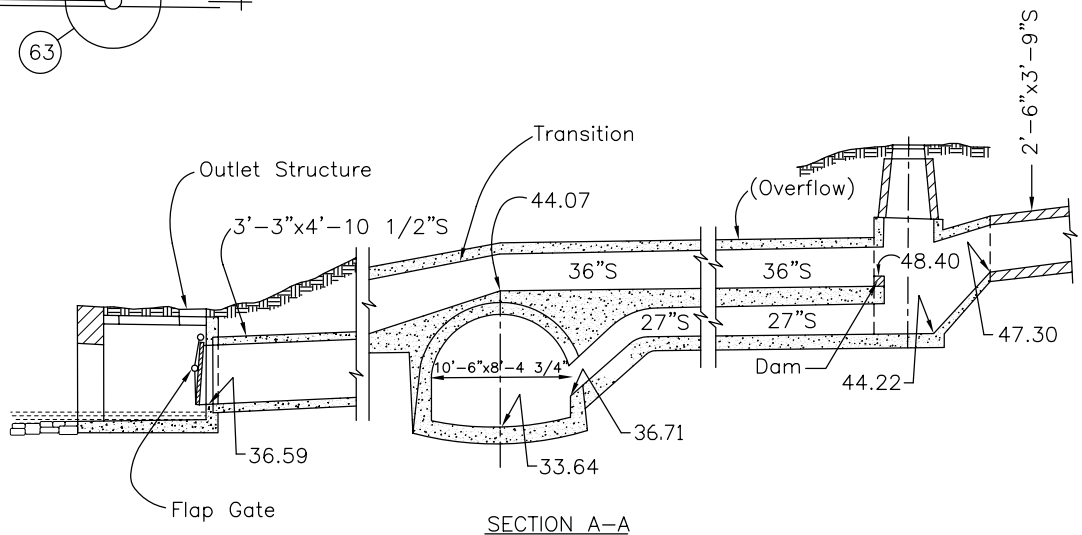
PLAN

1" = 50' 50 0 50 100

STRUCTURE NO. 63. Harvard Street and Rock Creek Parkway, N.W.
This Structure has a sump-type regulator. The Storm Overflow is formed by the elevated position of the Overflow pipe. A 2-ft. 6-in. by 3-ft. 9-in. egg-shaped Combined Sewer enters the structure and a 27-inch diversion connection conveys the Dry-Weather Flow into the East Rock Creek Diversion Sewer.

The 36-inch Overflow line discharges into Rock Creek,

There is an Outlet Structure and Gate at the Outlet.



SECTION A-A

1" = 10' 10 0 10 20

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 042

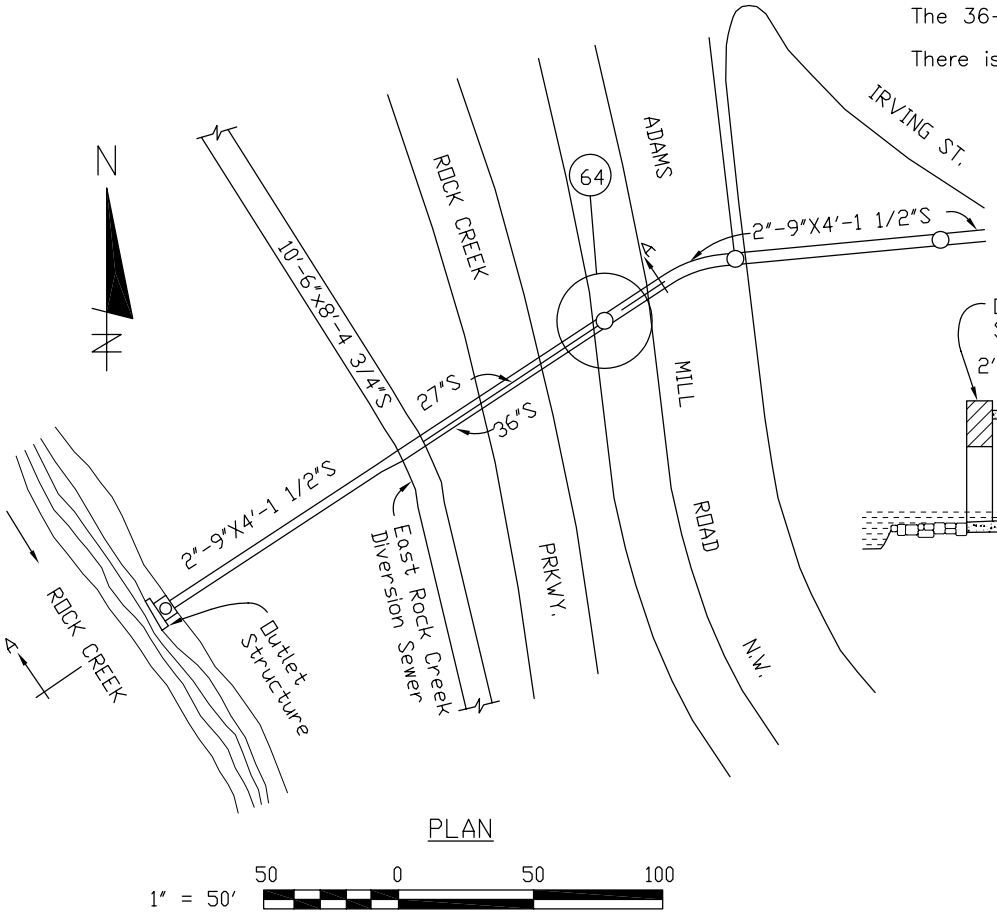
STRUCTURE NO.
63

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-63 1:1 04/23/04 14:53 GH-G

STRUCTURE NO. 64, Adams Mill Road South of Irving Street, N.W.
This structure has a sump–type regulator. The Storm Overflow is formed by the elevated position of the Overflow pipe. A 2–ft. 9–in. by 4–ft. 1–1/2–in. egg–shaped Combined Sewer enters the structure; and a 27–inch diversion connection conveys the Dry–Weather Flow into the East Rock Creek Diversion Sewer. Approximately 400 feet south of Irving Street.

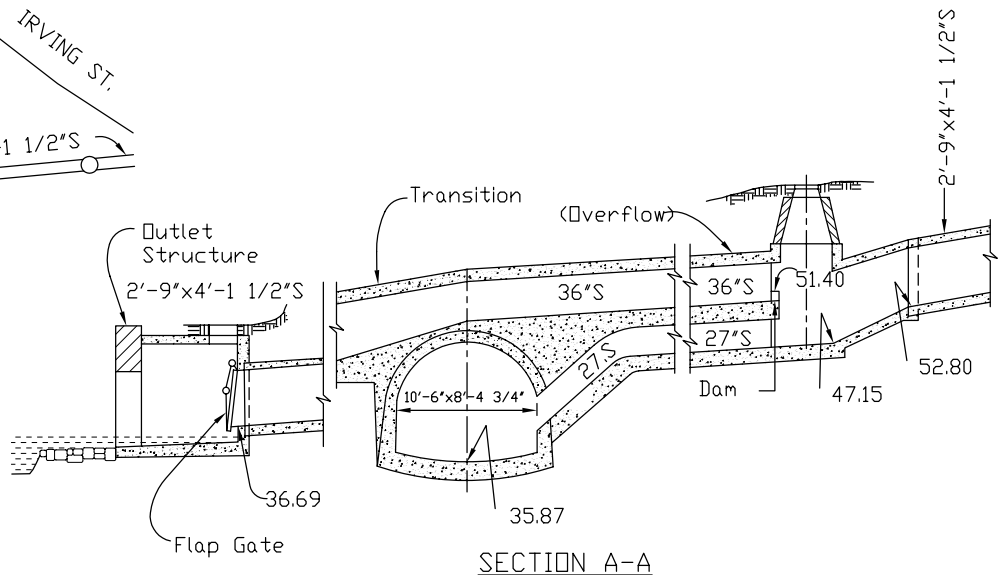
The 36–inch Overflow line discharges into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.



PLAN

1" = 50' 50 0 50 100



SECTION A-A

1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 043

STRUCTURE NO.
64

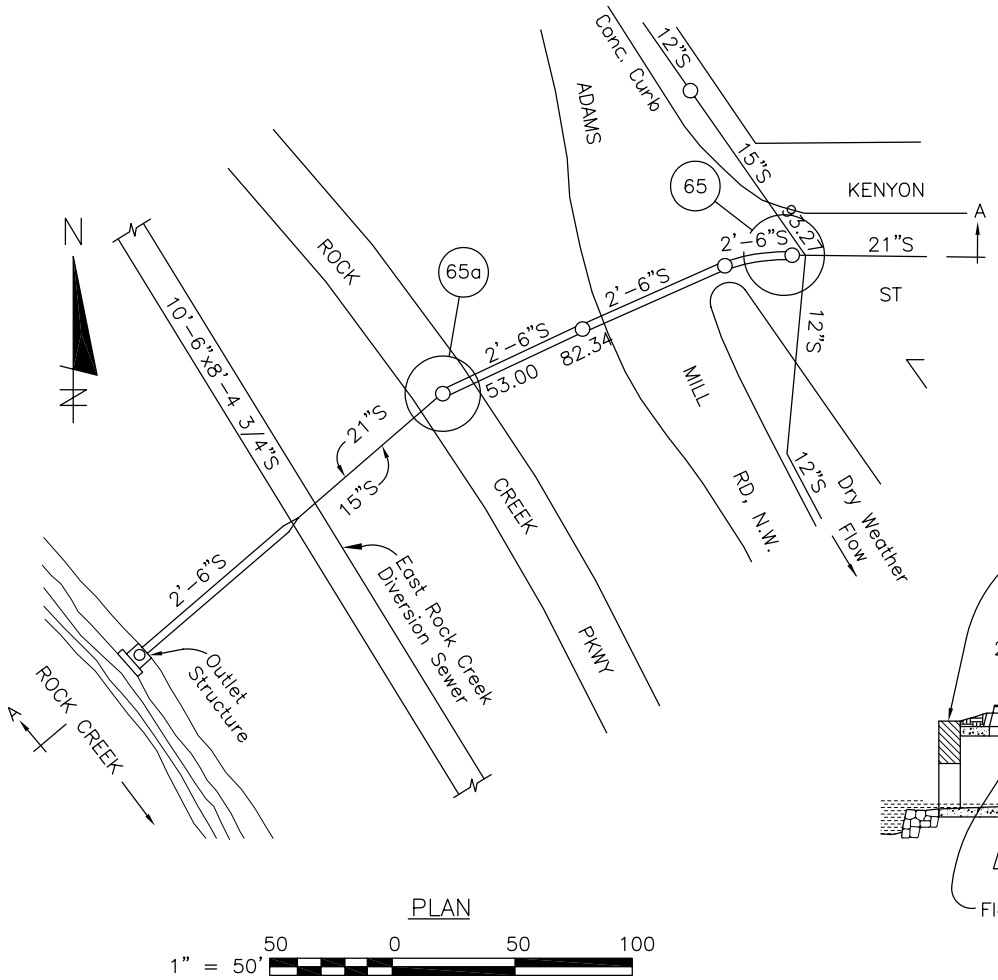
STRUCTURE NO.65, Kenyon Street and Adams Mill Road, N.W.
This structure has a sump–type regulator. The Storm Overflow is formed by a masonry dam. A 21–inch Combined Sewer and a 15–inch Combined Sewer enters the overflow manhole, and a 12–inch diversion connection conveys the Dry–Weather Flow into the 2–ft. 9–in. by 4–ft. 1 1/2–in. Sewer east of Structure No. 64.

The 2–ft. 6–in. Overflow line continues and becomes a part of Structure No. 65a

STRUCTURE NO. 65a. This structure has a sump–type regulator. The Storm Overflow formed by the elevated position of the Overflow pipe. A 2–ft. 6–in. Combines Sewer enters the structure, and a 15–inch diversion connection conveys the Dry–Weather Flow into the East Rock Creek Diversion Sewer.

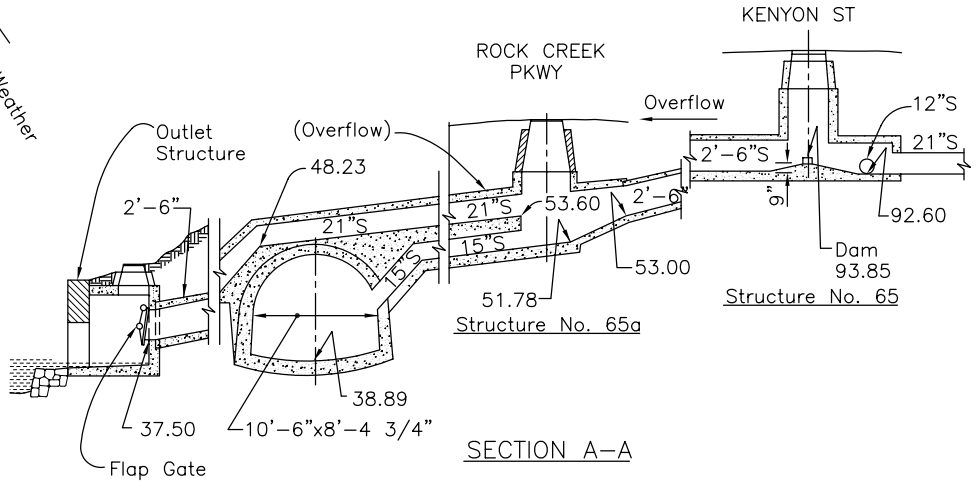
The 21–inch Overflow line discharges to Rock Creek.

There is an Outlet Structure and Gate at the Outlet.



PLAN

1" = 50' 50 0 50 100

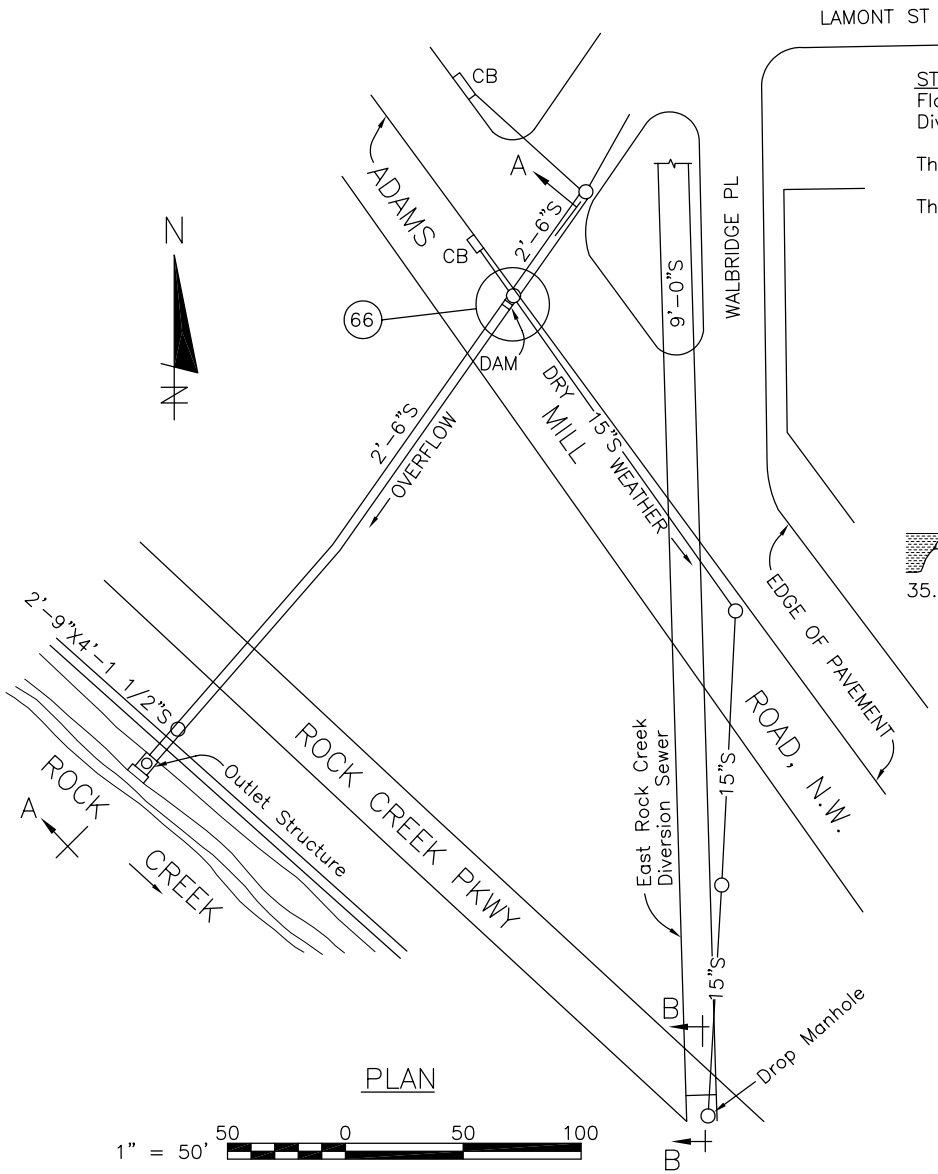


SECTION A–A

1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 044

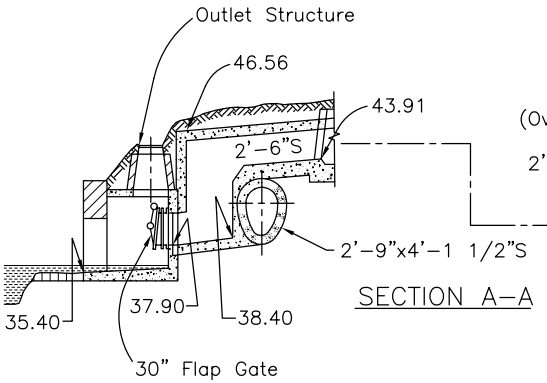
STRUCTURE NO.
65, 65a



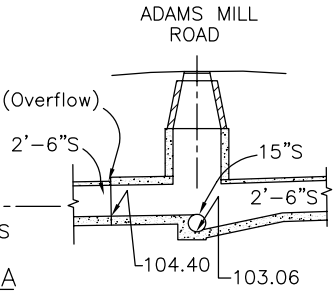
STRUCTURE NO. 66. A 2–ft. 6–in. Combined Sewer enters the structure. Dry Weather Flows are diverted by a dam into a 15–in. sewer and into the East Rock Creek Diversion Sewer. Overflow is into a 2–ft. 6–in. sewer.

The 2–ft. 6–in. Overflow is into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.

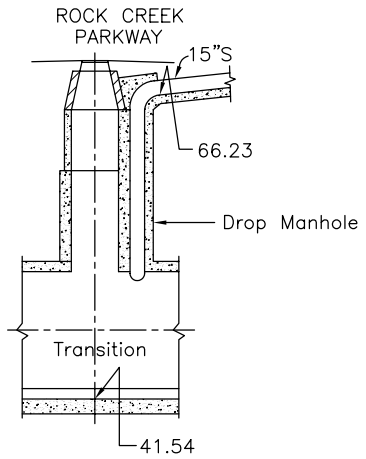


SECTION A–A



DETAIL

1" = 10' 10 0 10 20

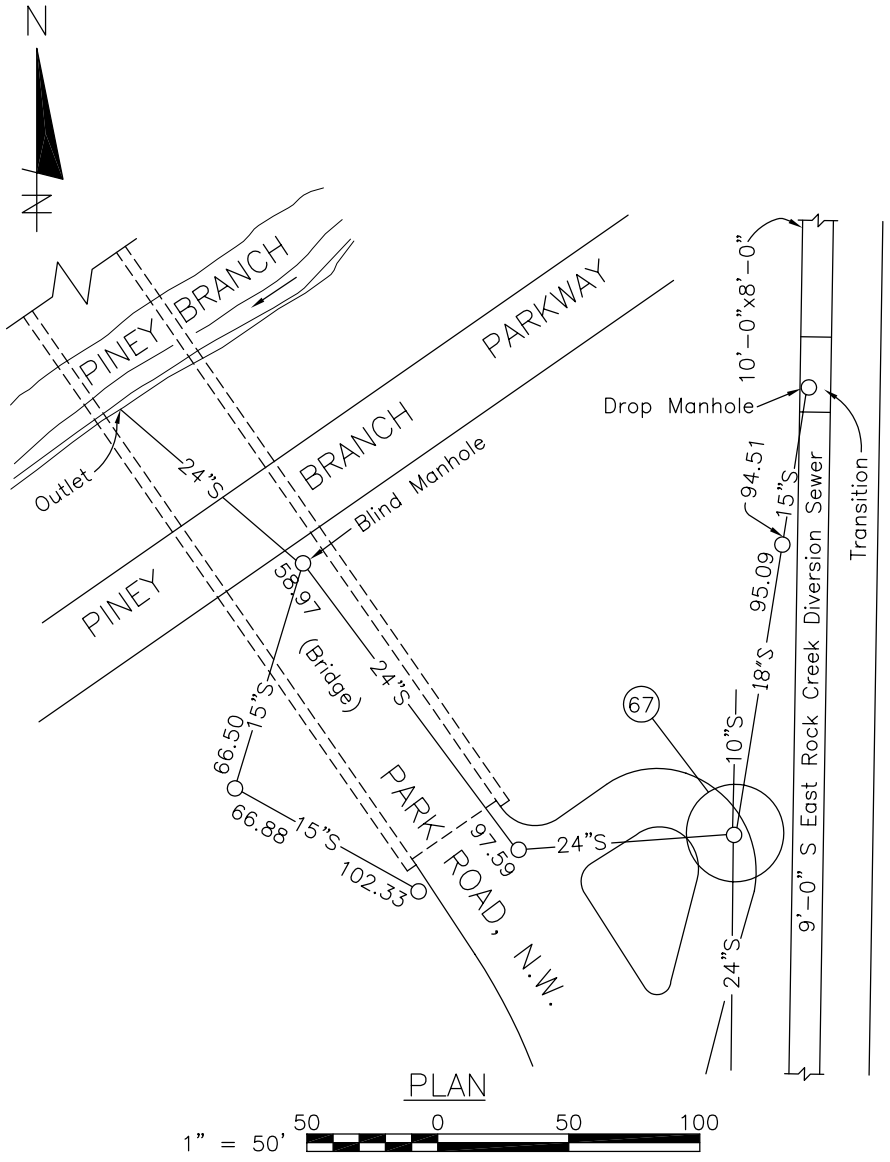


SECTION B–B

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 045

STRUCTURE NO.
66

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–66 1:1 04/23/04 14:57 GH–G



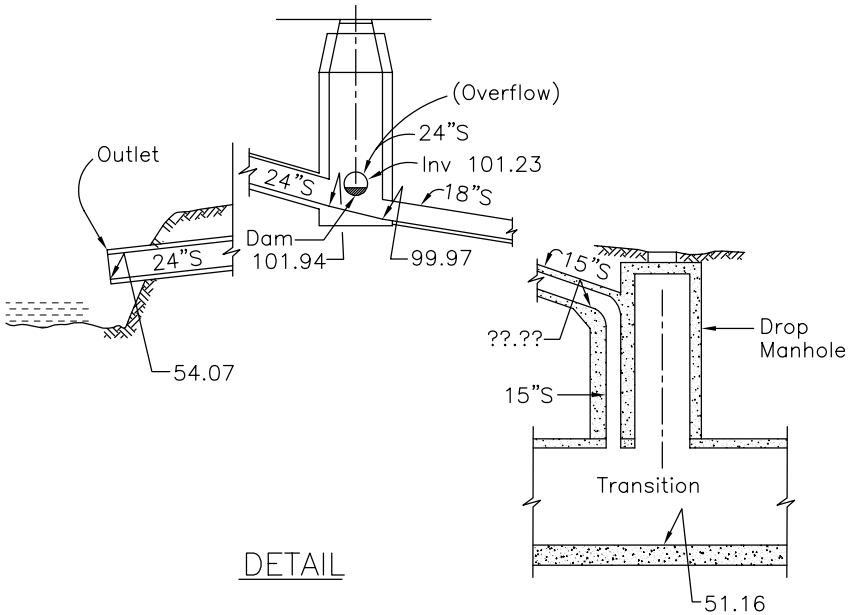
PLAN

1" = 50' 50 0 50 100

STRUCTURE NO. 67. Park Road South of Piney Branch Parkway, N.W.
This structure has a sump-type regulator. The Storm Overflow is formed by the elevated position of the Overflow pipe. A 24-inch Combined Sewer enters the overflow manhole and an 18-inch, later a 15-inch, diversion connection conveys the Dry-Weather Flow into the East Rock Creek Diversion Sewer.

The 24-inch Overflow line discharges into Piney Branch.

There is no Gate or Outlet Structure at the Outlet.

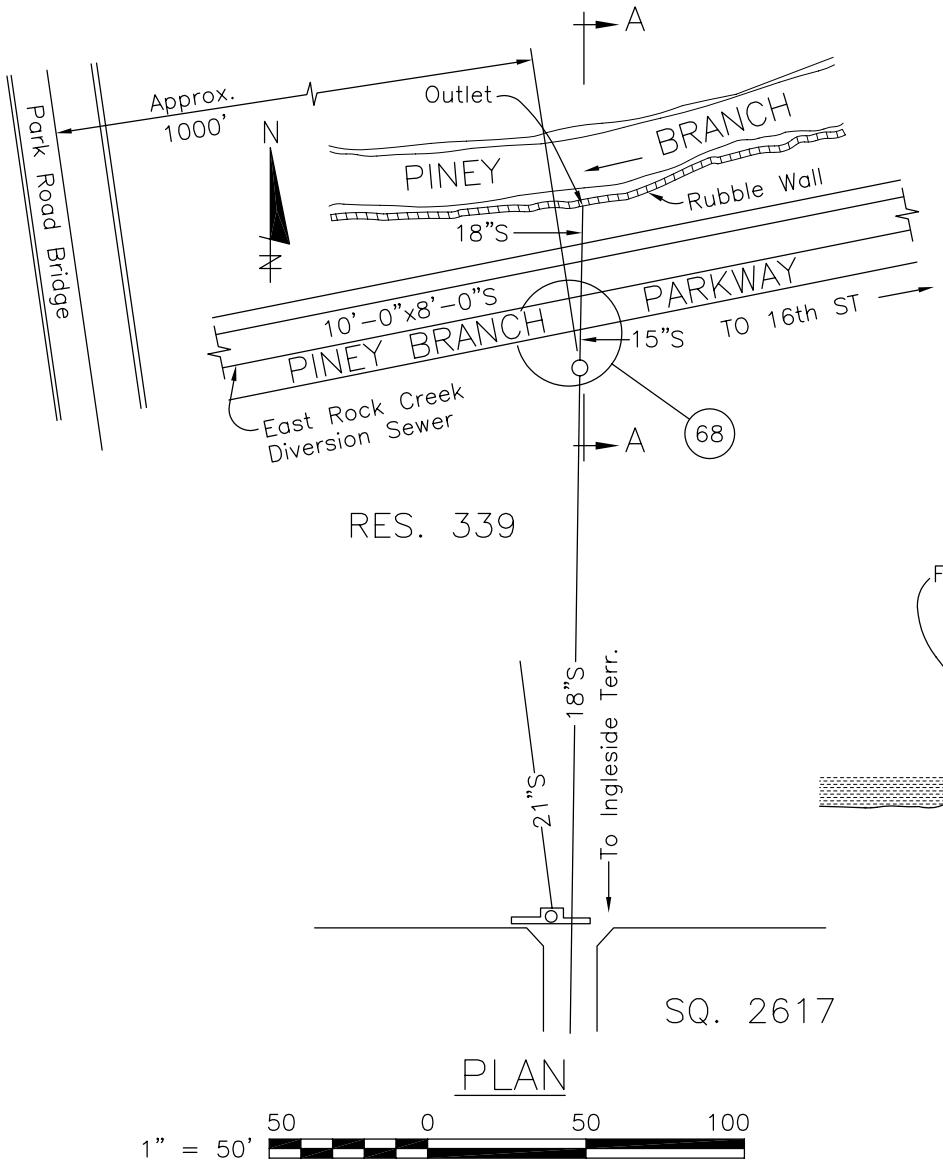


DETAIL

1" = 10' 10 0 10 20

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 046

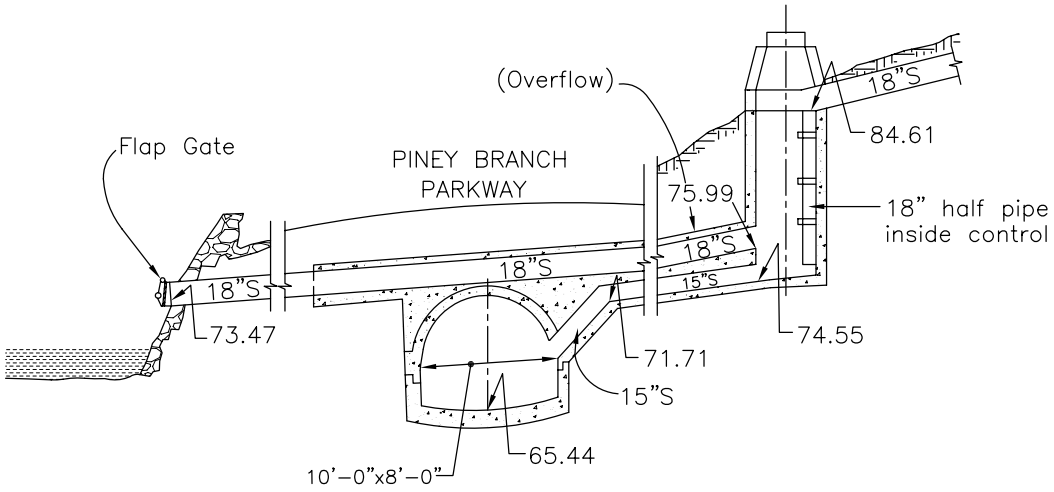
STRUCTURE NO.
67



STRUCTURE NO. 68, Ingleside Terrace, Extended, and Piney Branch Parkway, N.W. This structure has a sump-type regulator. The Storm Overflow is formed by the elevated position of the Overflow pipe. An 18-inch Combined Sewer enters the overflow manhole and a 15-inch diversion connection conveys the Dry-Weather Flow into the East Rock Creek Diversion Sewer.

The 18-inch Overflow line discharges into Piney Branch.

There is a Gate at the Outlet.



SECTION A-A

1" = 10'
10
0
10
20

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 047

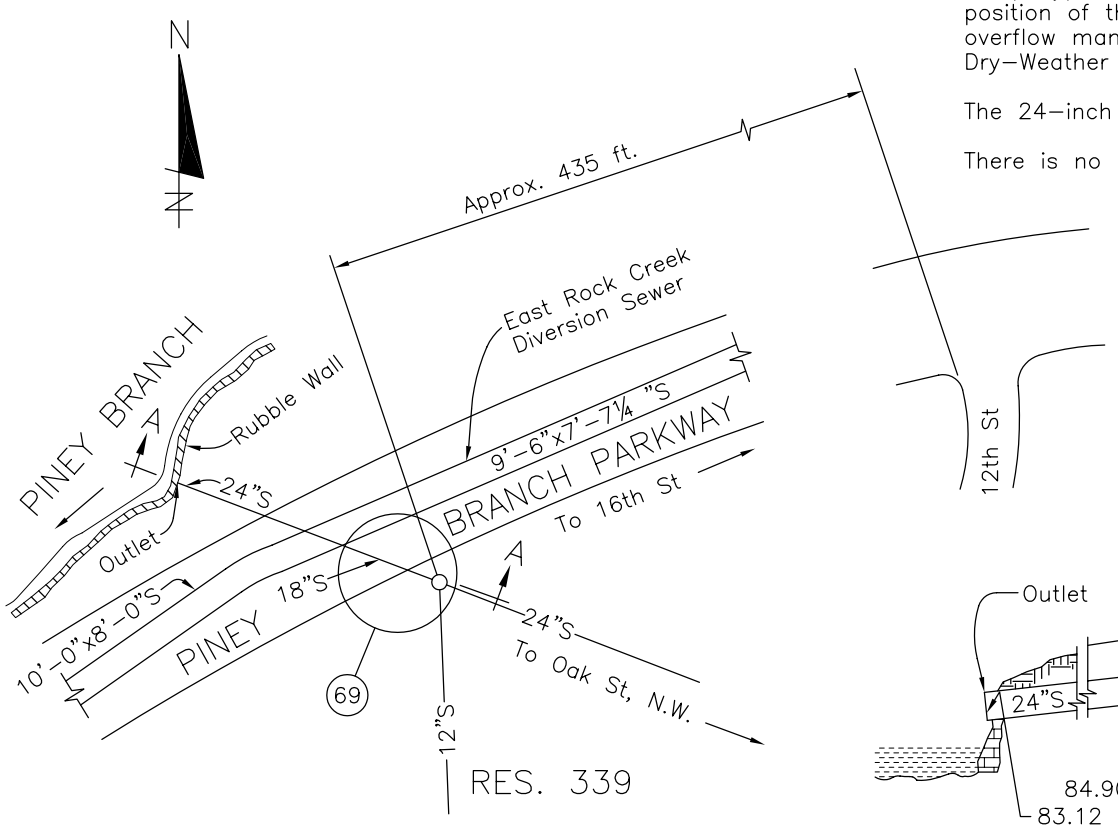
STRUCTURE NO.
68

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-68 1:1 04/23/04 15:05 GH-G

STRUCTURE NO. 69, Oak Street Sewer, Mount Pleasant Street, Extended, and Piney Branch Parkway, N.W. This structure has a sump–type regulator. The Storm Overflow is formed by the elevated position of the Overflow pipe. A 24–inch Combined Sewer enters the overflow manhole, and a 18–inch diversion connection conveys the Dry–Weather Flow into the East Rock Creek Diversion Sewer.

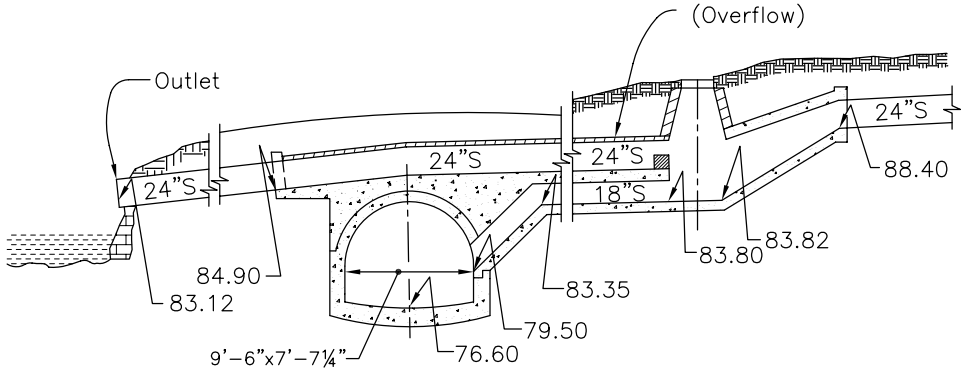
The 24–inch Overflow line discharges into Piney Branch.

There is no Outlet Structure or Gate at the Outlet.



PLAN

1" = 50' (50 0 50 100)



SECTION A–A

1" = 10' (10 0 10 20)

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 048

STRUCTURE NO.
69

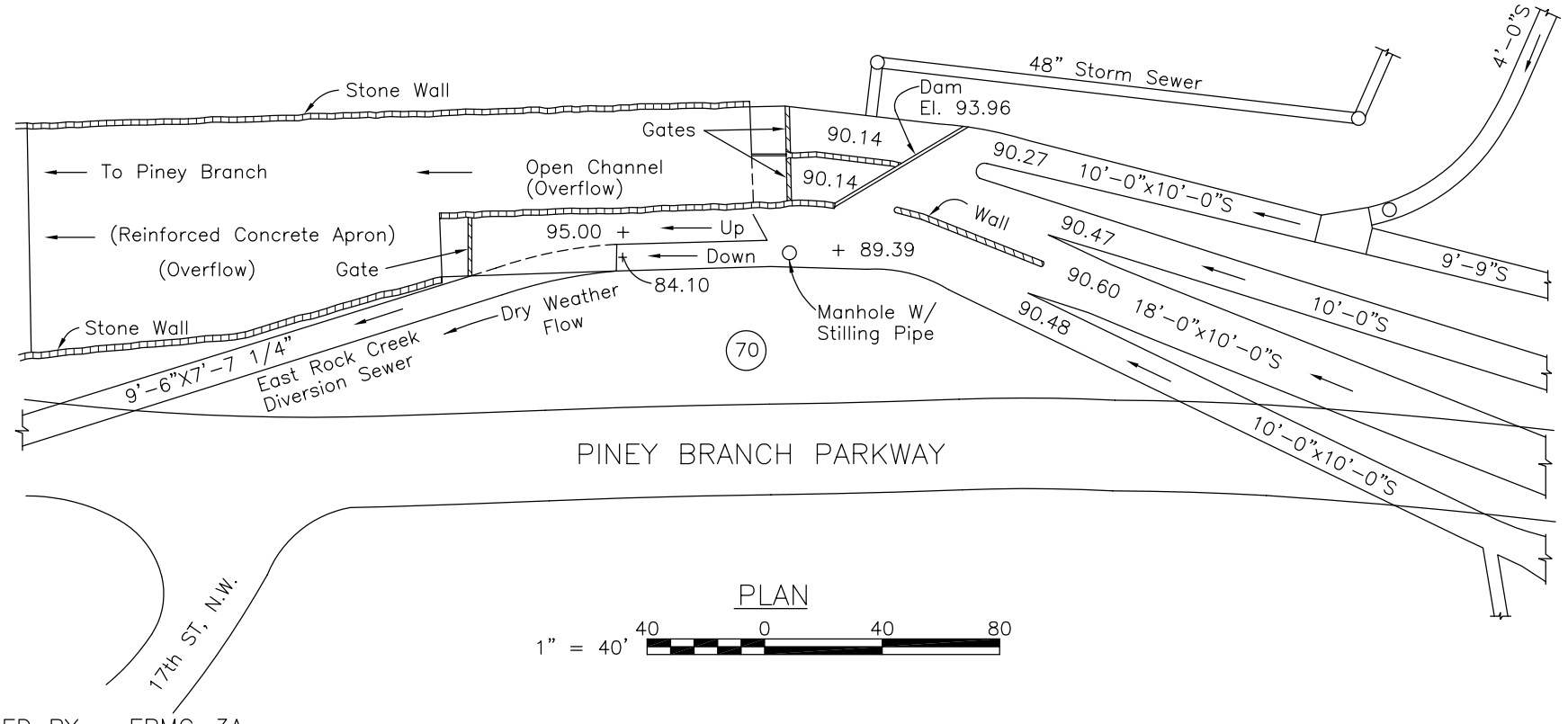
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–69 1:1 04/23/04 15:07 GH–G

STRUCTURE NO. 70, Piney. Branch Sewers. Piney Branch Parkway West of 16th Street, N.W. This structure has sump–type regulators. The Storm Overflow is formed by a masonry dam. Two 10–ft. by 10–ft horseshoe shaped sewers, an 18–ft. by 10–ft. rectangular sewer, and a 10–ft. circular sewer, all Combined Sewers, enter the structure. The upstream end of the East Rock Creek Diversion Sewer forms the diversion connection. This connection is 9–ft. 6–in. by 7–ft. 7 1/4–in. in size and has a horseshoe shape. The Dam is 10.90 ft. high where the Dry–Weather Flow enters the diversion connection. In addition there is a 3.67 ft. high dam at the north end of the structure. The Overflow line is an open concrete channel.

The Overflow Channel discharges into Piney Branch which in turn discharges to Rock Creek.

There are Gates at the Outlets.

RES. 339



PLAN

1" = 40' 40 0 40 80

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 049

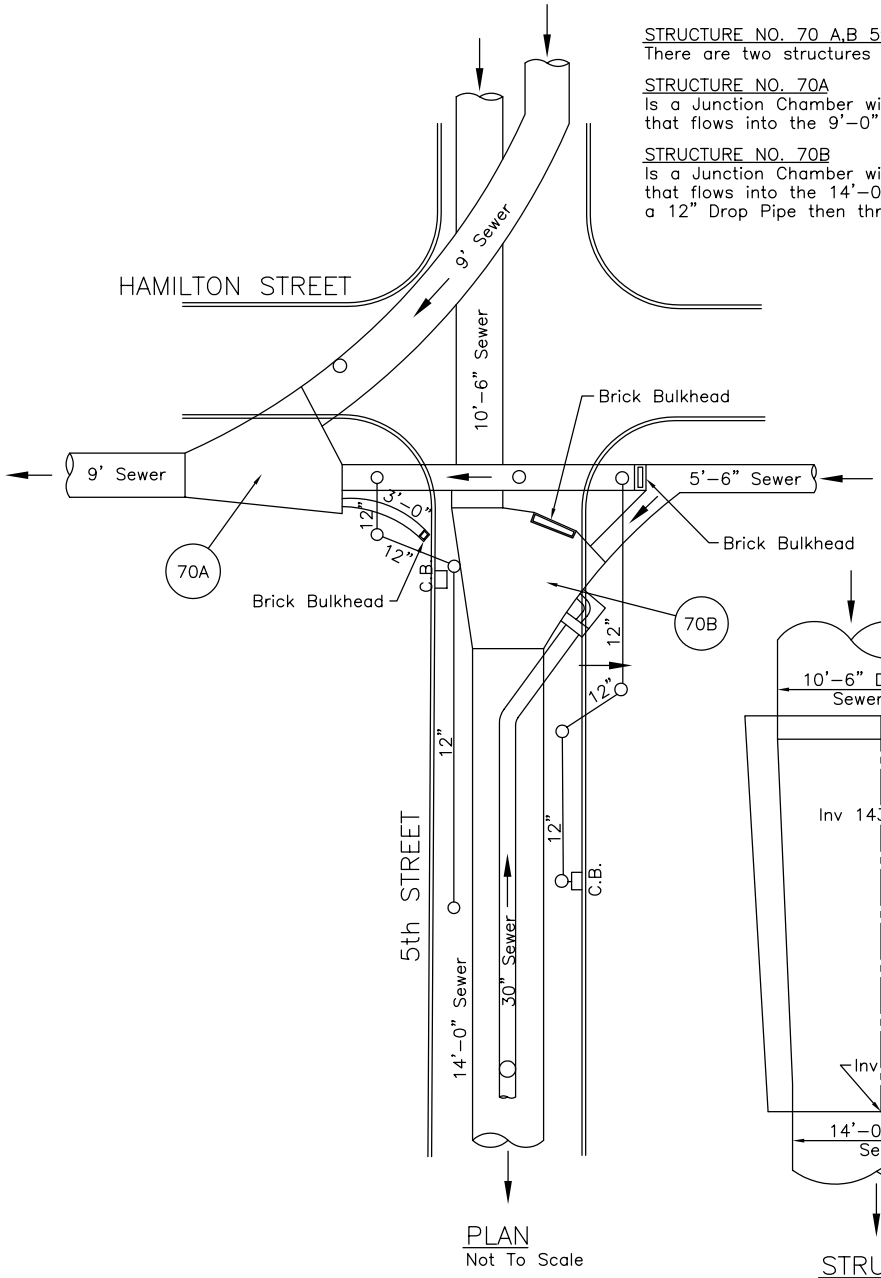
STRUCTURE NO.
70

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–70 1:1 04/23/04 15:08 GH–G

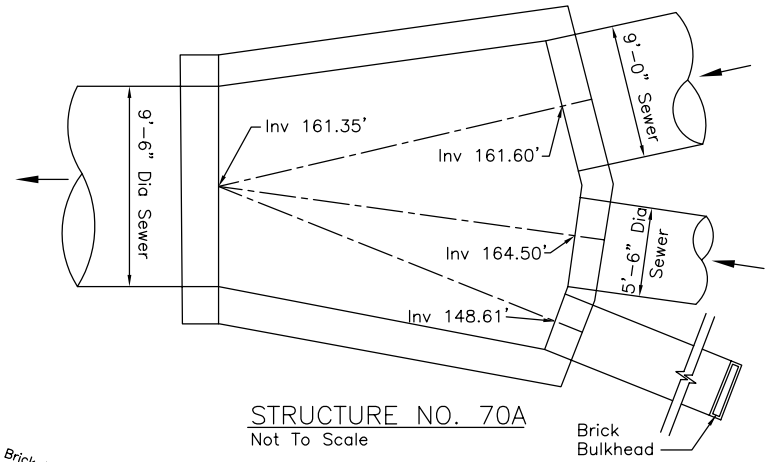
STRUCTURE NO. 70 A,B 5th & HAMILTON STREET
There are two structures at this location.

STRUCTURE NO. 70A
Is a Junction Chamber with a 5'–6" dia, 3'–0" dia ports bulkheaded closed and a 9'–0" dia sewer that flows into the 9'–0" Piney Branch Trunk Sewer.

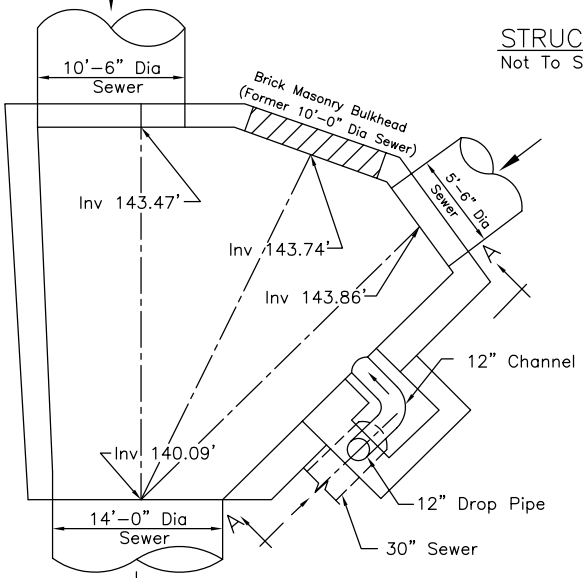
STRUCTURE NO. 70B
Is a Junction Chamber with a 14'–0" dia, 5'–6" dia and 10'–6" dia ports and 10'–0" dia bulkheaded sewer that flows into the 14'–0" Piney Branch Trunk Sewer. Sewer from the 30" dia flows into Structure No. 70b via a 12" Drop Pipe then through a 36" opening into the 14'–0" sewer.



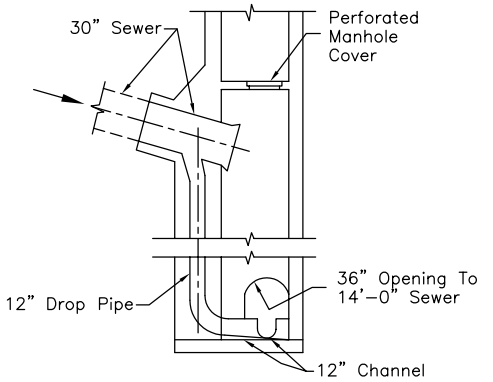
PLAN
Not To Scale



STRUCTURE NO. 70A
Not To Scale



STRUCTURE NO. 70B
Not To Scale

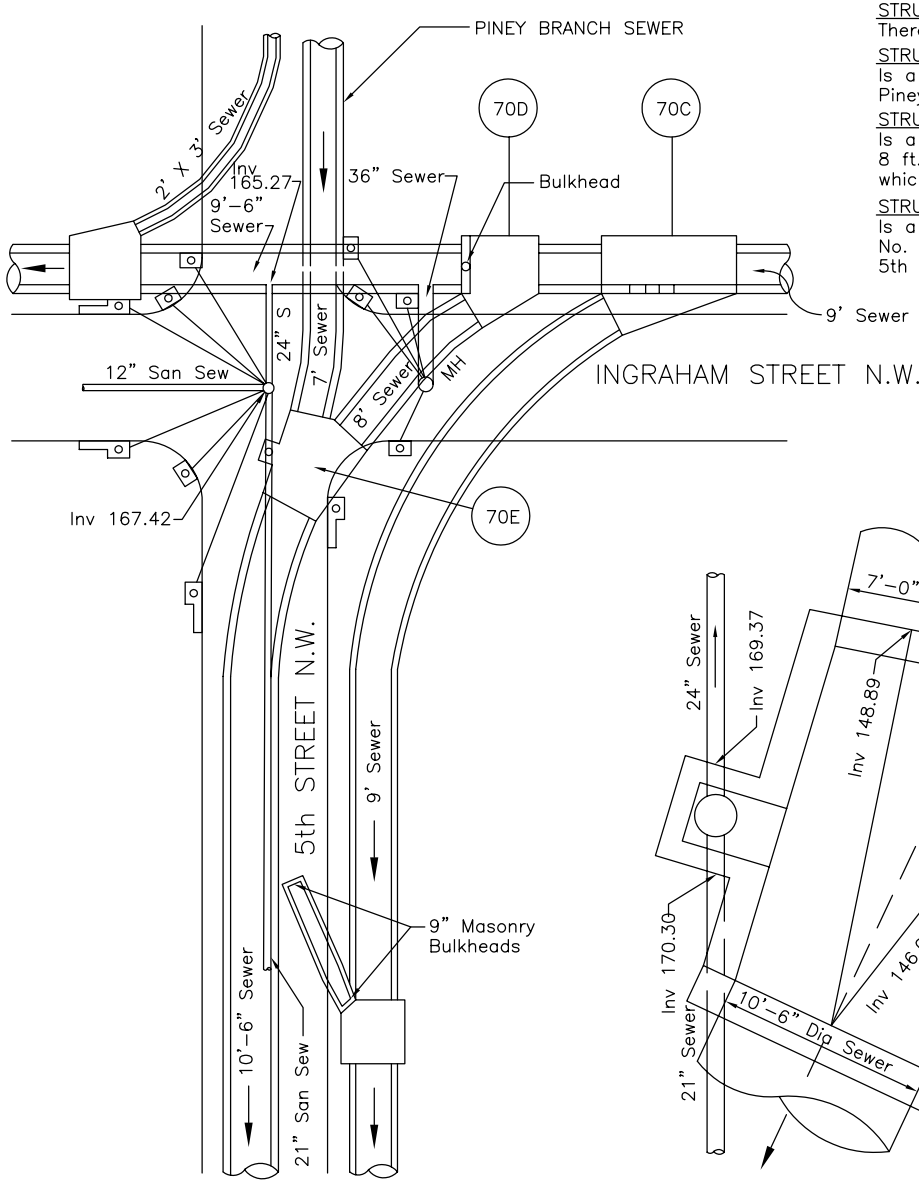


SECTION A–A
Not To Scale

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
70a, 70b

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–70A–70B 1:1 04/23/04 15:09 GH–G



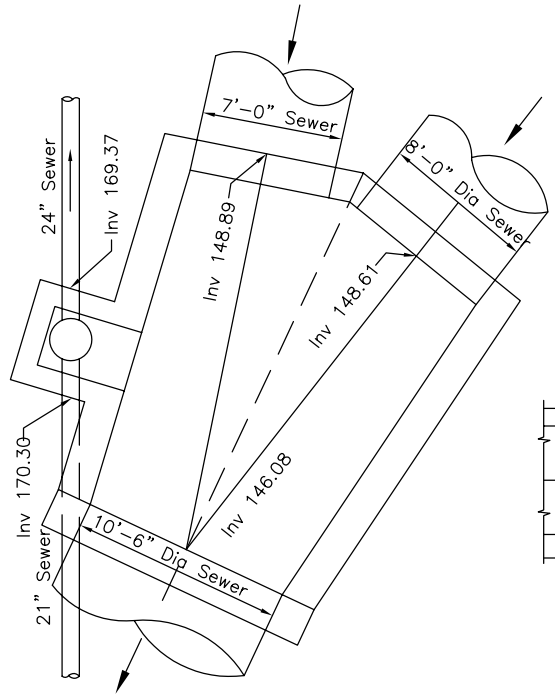
PLAN
Not To Scale

STRUCTURE NO. 70C,D,E 5th & INGRAHAM STREET N.W.
There are three structures at this location.

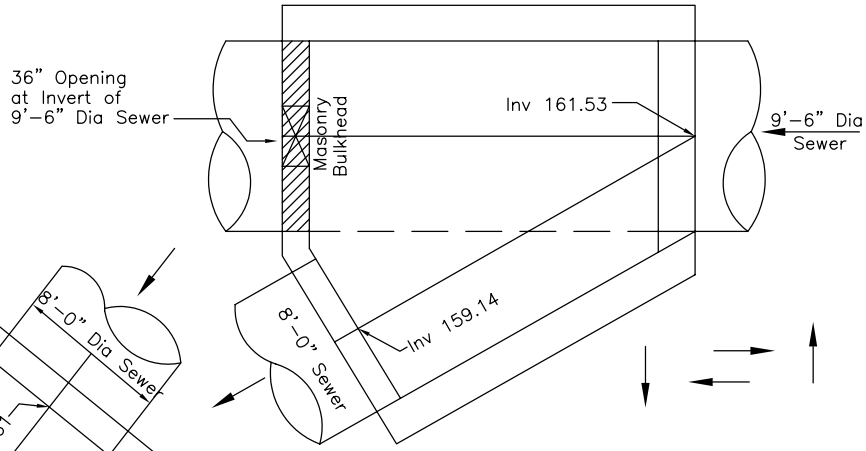
STRUCTURE NO. 70C
Is a Junction Chamber with two 2'-6"x 2'-0" ports to release flow into the 9 ft. diameter Piney Branch Trunk Sewer.

STRUCTURE NO. 70D
Is a Junction Chamber which diverts the flow from the 9'-6" diameter Piney Branch Sewer into the 8 ft. branch of the Piney Branch Trunk Sewer. There is a 36" arched opening in the west bulkhead which diverts the 9'-6" sewer to relieve flow into the Piney Branch Sewer.

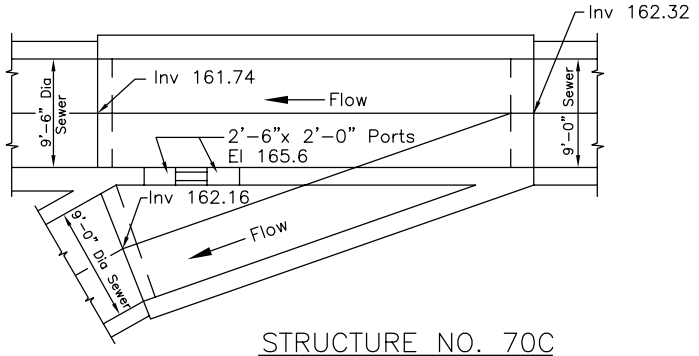
STRUCTURE NO. 70E
Is a Junction Chamber connecting the 7 ft. sewer in 5th Street and the 8 ft. sewer from Structure No. 70d with the 10'-6" Piney Branch Trunk sewer and the Sanitary Flow from a 21-inch sewer in 5th Street and a 12-inch sewer in Ingraham Street.



STRUCTURE NO. 70E
Not To Scale



STRUCTURE NO. 70D
Not To Scale

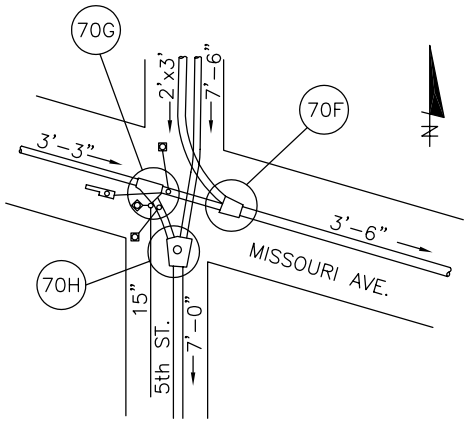


STRUCTURE NO. 70C
Not To Scale

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
70c, 70d, 70e

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-70C-70D-70E 1:1 04/23/04 15:11 GH-G



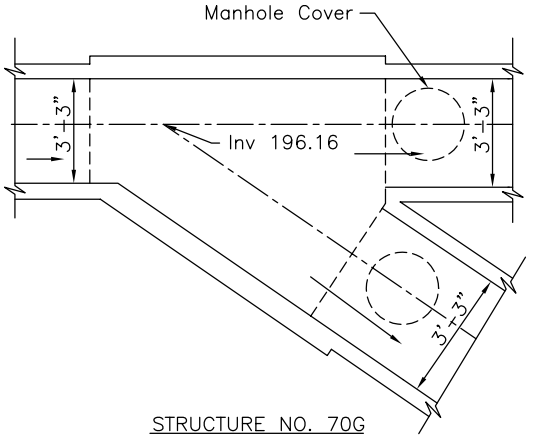
LOCATION PLAN
Not To Scale

STRUCTURE NO. 70F,G,H – 5th & MISSOURI AVE. N.W.
There are three structures at this location.

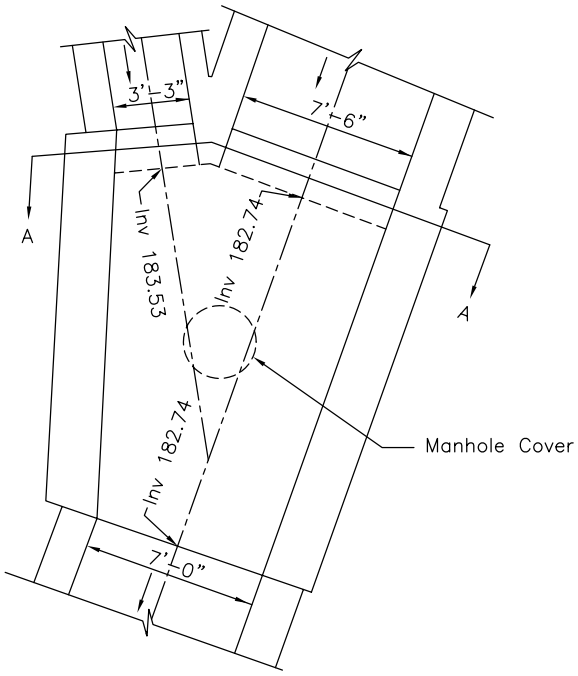
STRUCTURE NO. 70F
Is a Junction Chamber between the 2'x 3' Piney Branch Combined Sewer in 5th Street and the 3'x 6' sewer in Missouri Avenue.

STRUCTURE NO. 70G
Is a Junction Chamber between the 3'–3" Combined Sewer in Missouri Avenue, the Piney Branch Sewer and the Rock Creek Diversion Sewer.

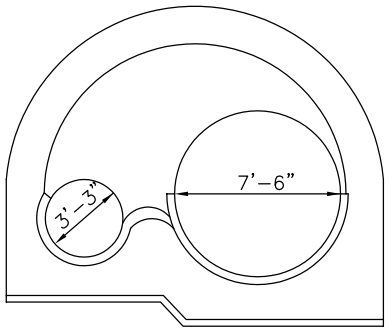
STRUCTURE NO. 70H
Is a Junction Chamber between the 3'–3" Combined Leg from Structure No. 70G the 7–ft. Rock Creek Diversion Sewer and the 7'–6" Rock Creek Diversion.



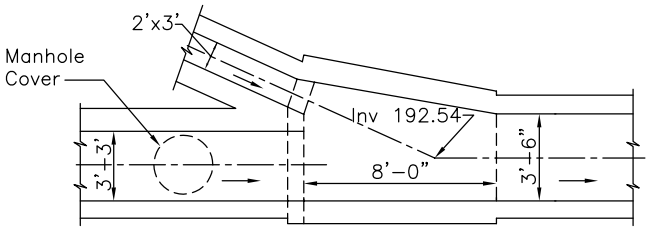
STRUCTURE NO. 70G
Not To Scale



STRUCTURE NO. 70H
Not To Scale



SECTION A–A (70H)
Not To Scale



STRUCTURE NO. 70F
Not To Scale

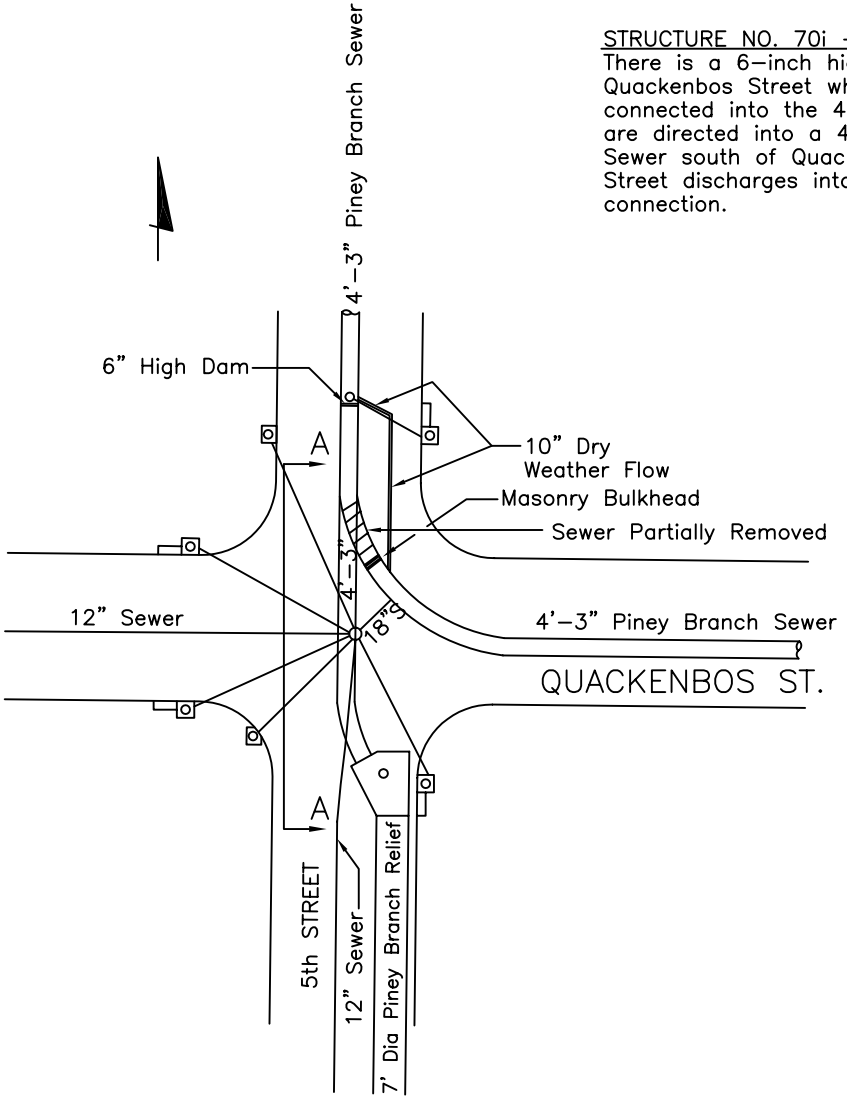
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
70f, 70g, 70h

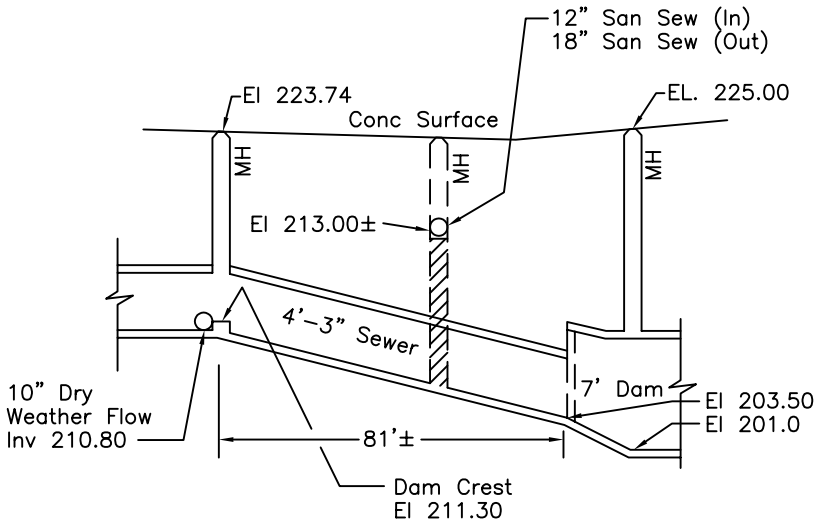
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–70F–70G–70H 1:1 04/23/04 15:12 GH–G

STRUCTURE NO. 70i – 5th & QUACKENBOS STREETS N.W.

There is a 6–inch high dam in the 4'–3" Piney Branch Sewer north of Quackenbos Street which diverts Dry Weather Flow into a 10–inch sewer connected into the 4'–3" sewer downstream of a bulkhead. Storm flows are directed into a 4'–3" relief connection which becomes a 7–ft. Relief Sewer south of Quackenbos Street. The 12–inch Sanitary Sewer in 5th Street discharges into the Piney Branch Sewer through an 18–inch connection.



LOCATION PLAN
Not To Scale



SECTION A–A
SECTION PINEY BRANCH RELIEF
Not To Scale

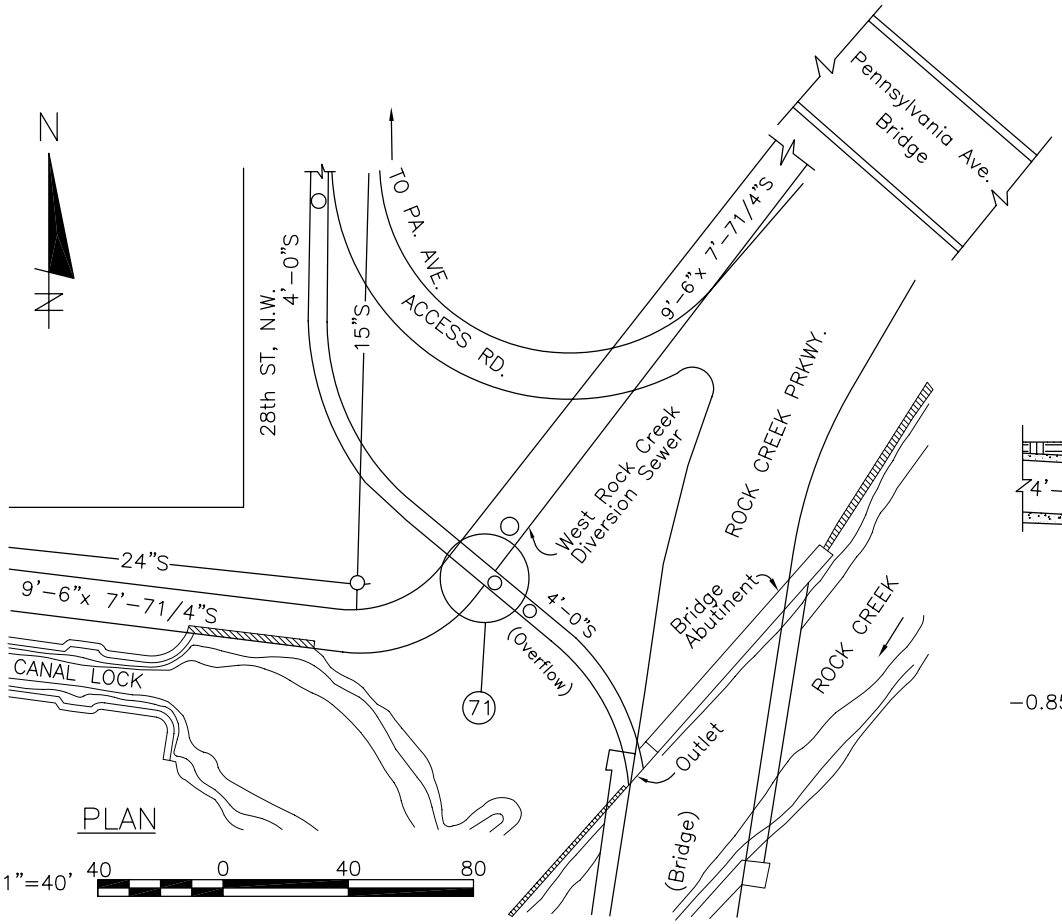
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 049

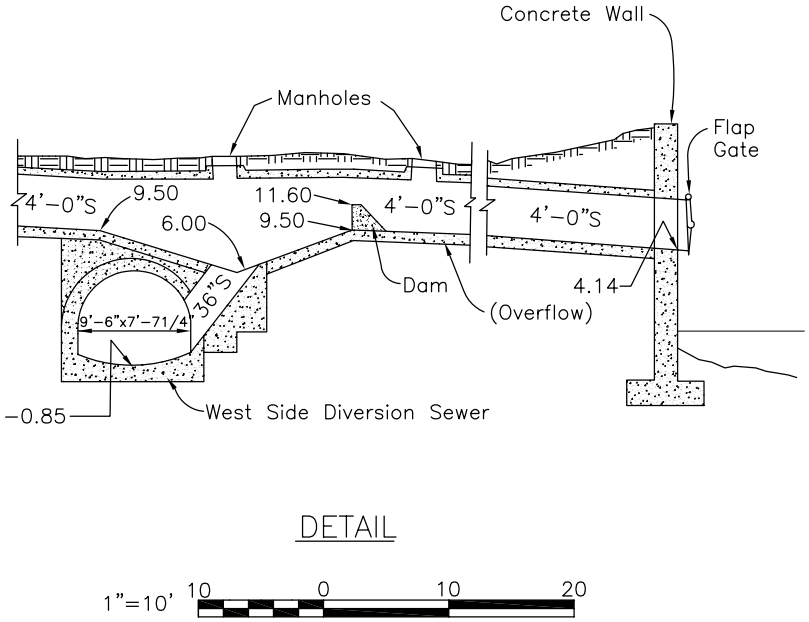
STRUCTURE NO.
70i

STRUCTURE NO. 71, 28th Street, West of Rock Creek Parkway, N.W.
This structure has a sump–type regulator. The Storm Overflow is formed by a depressed section of the invert and a masonry dam. A 4–ft. Combined Sewer enters the manhole, and a 36–inch diversion connection conveys the Dry–Weather Flow to the West Rock Creek Diversion Sewer.

The 4–ft. Overflow line discharges into Rock Creek.

There is a Flap Gate on the outlet line mounted on a retaining wall at Rock Creek.





REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 050

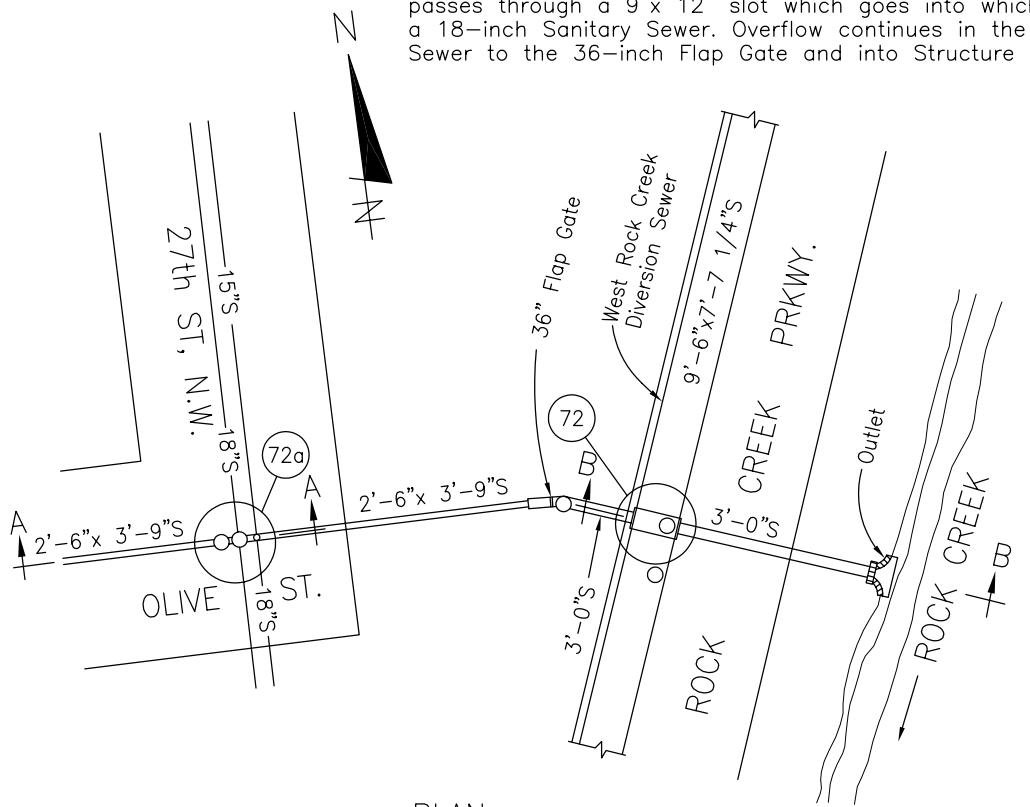
STRUCTURE NO.
71

STRUCTURE NO. 72, Olive Street, Extended and Rock Creek Parkway, N.W. This structure has a sump–type regulator. The Storm Overflow is formed by a masonry dam. A 3–ft. Combined Sewer enters the structure and a 2–ft. 3–in. vertical diversion connection conveys the Dry–Weather Flow to the West Rock Creek Diversion Sewer.

The 3–ft. Overflow line discharges into Rock Creek.

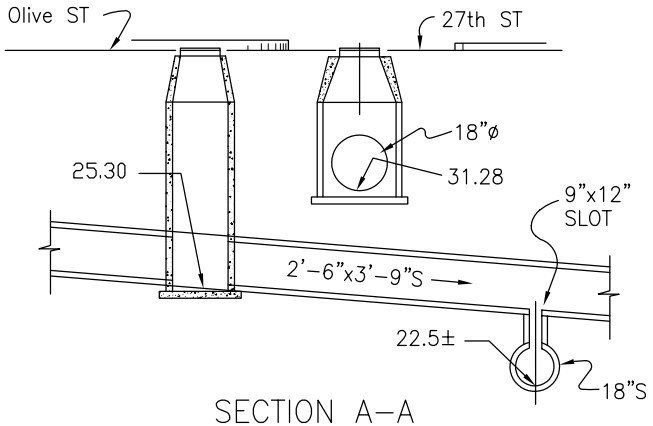
There is an Outlet Structure and no Gate at the Outlet.

STRUCTURE NO. 72a. Olive Street and 27th Street, N.W. This structure has a slot type regulator. Dry Weather Flow passes through a 9"x 12" slot which goes into which goes into a 18–inch Sanitary Sewer. Overflow continues in the 2'–6"x 3'–9" Sewer to the 36–inch Flap Gate and into Structure No. 72.

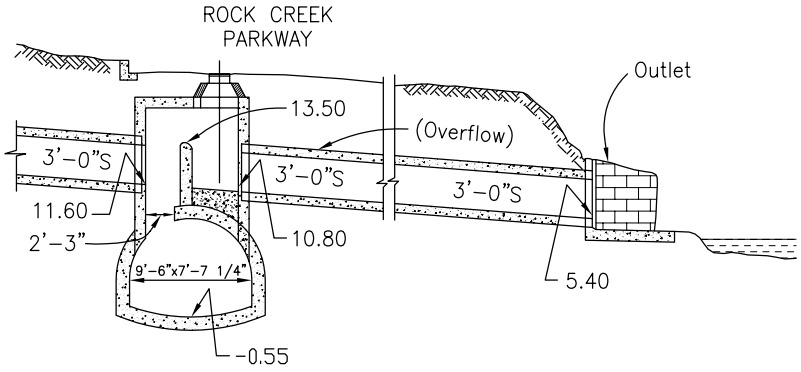


PLAN

1" = 40' 40 0 40 80



SECTION A–A



SECTION B–B

1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 051

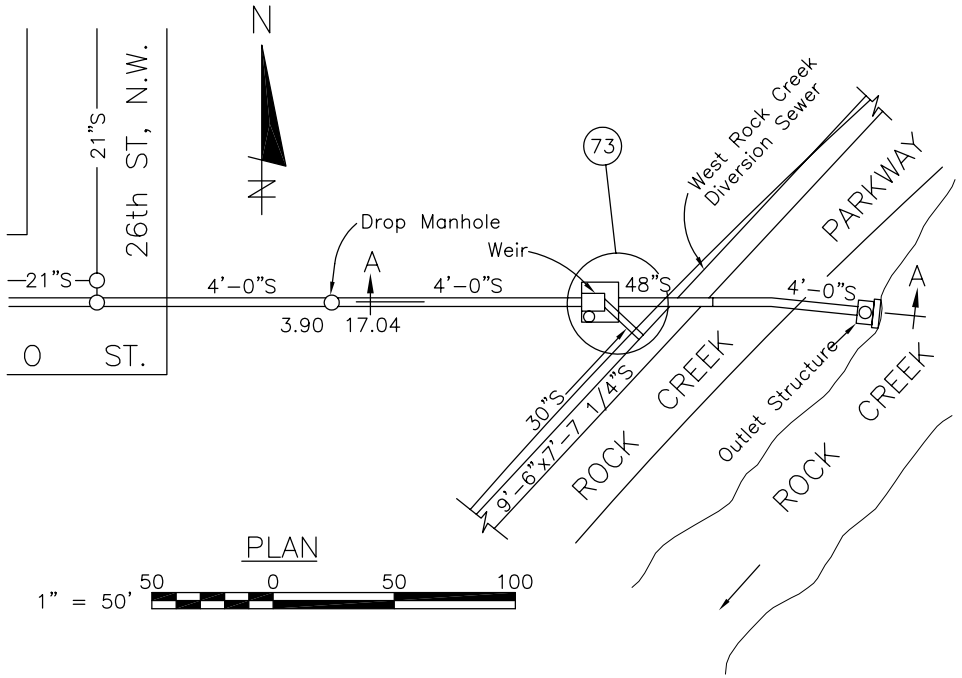
STRUCTURE NO.
72 & 72a

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–72–72A 1:1 04/23/04 15:17 GH–G

STRUCTURE NO. 73, O Street, Extended, and Rock Creek Parkway, N.W.
This structure has a sump–type regulator. The Storm Overflow is formed by a masonry dam. A 4–ft. Combined Sewer enters the structure and a 30–inch diversion connection conveys the Dry–Weather Flow into West Rock Creek Diversion Sewer.

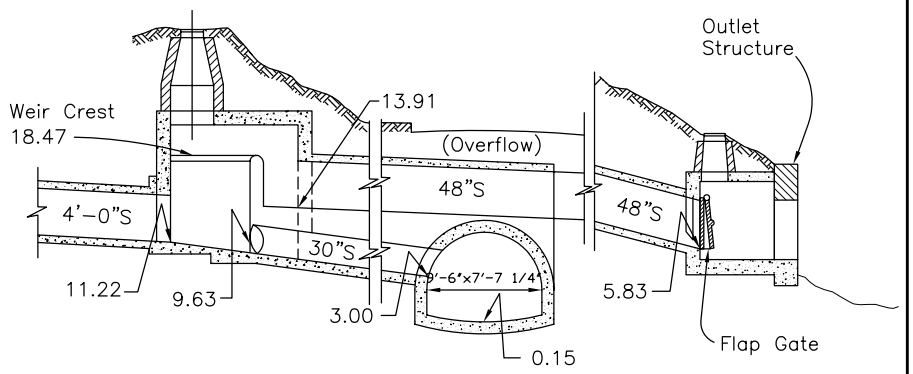
The 48–inch Overflow line discharges into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.



PLAN

1" = 50' 50 0 50 100

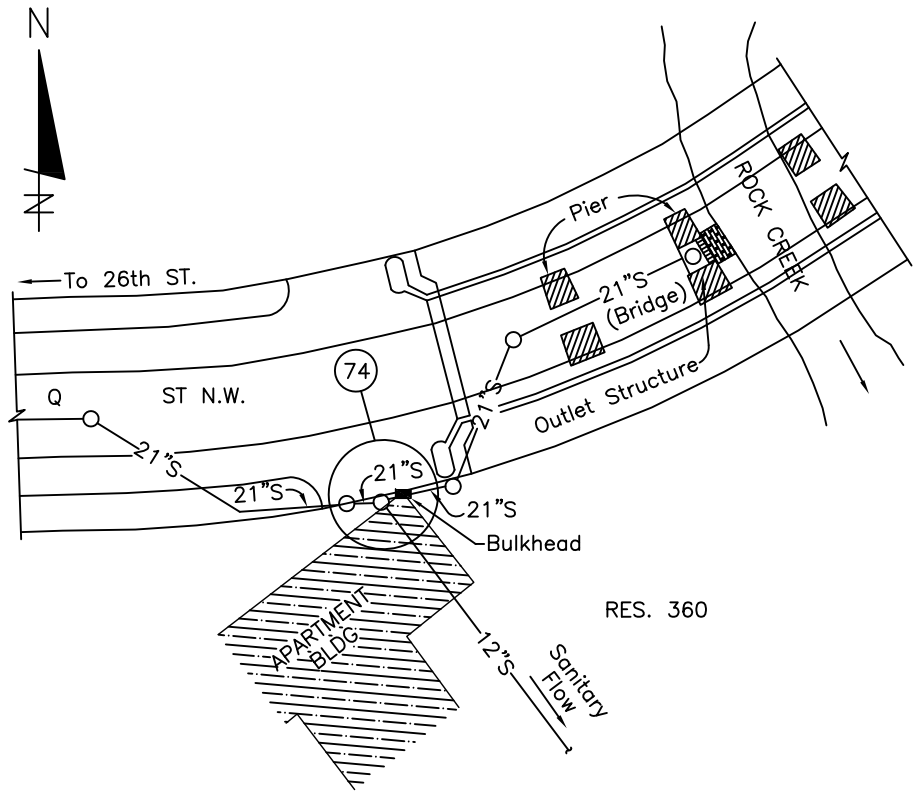


SECTION A–A

1" = 10' 10 0 10 20

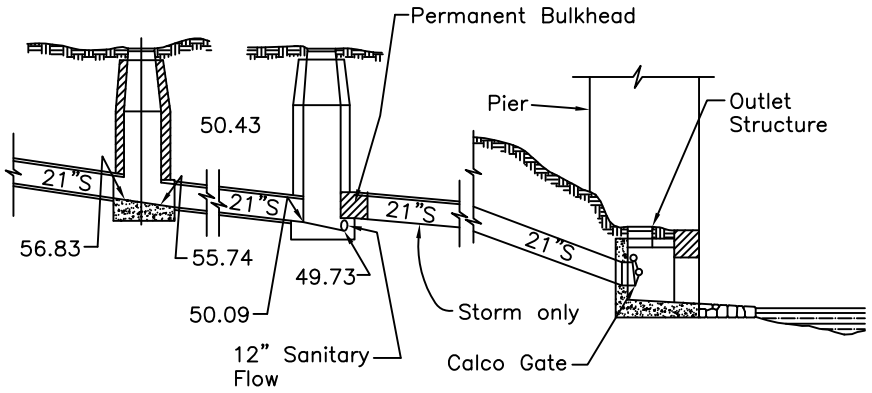
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 052

STRUCTURE NO.
73



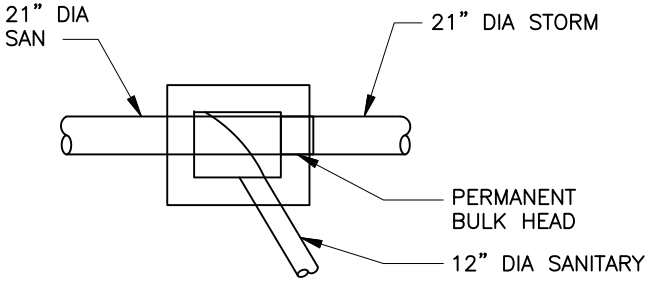
PLAN

1" = 50' 50 0 50 100



DETAIL

1" = 10' 10 0 10 20



SECTIONAL PLAN

STRUCTURE NO. 74, Q Street, West of Rock Creek, N.W.
This structure had a sump–type regulator. A 21–inch Sanitary Sewer enters the structure and a 12–inch connection conveys the Sanitary Flow into West Rock Creek Diversion Sewer.

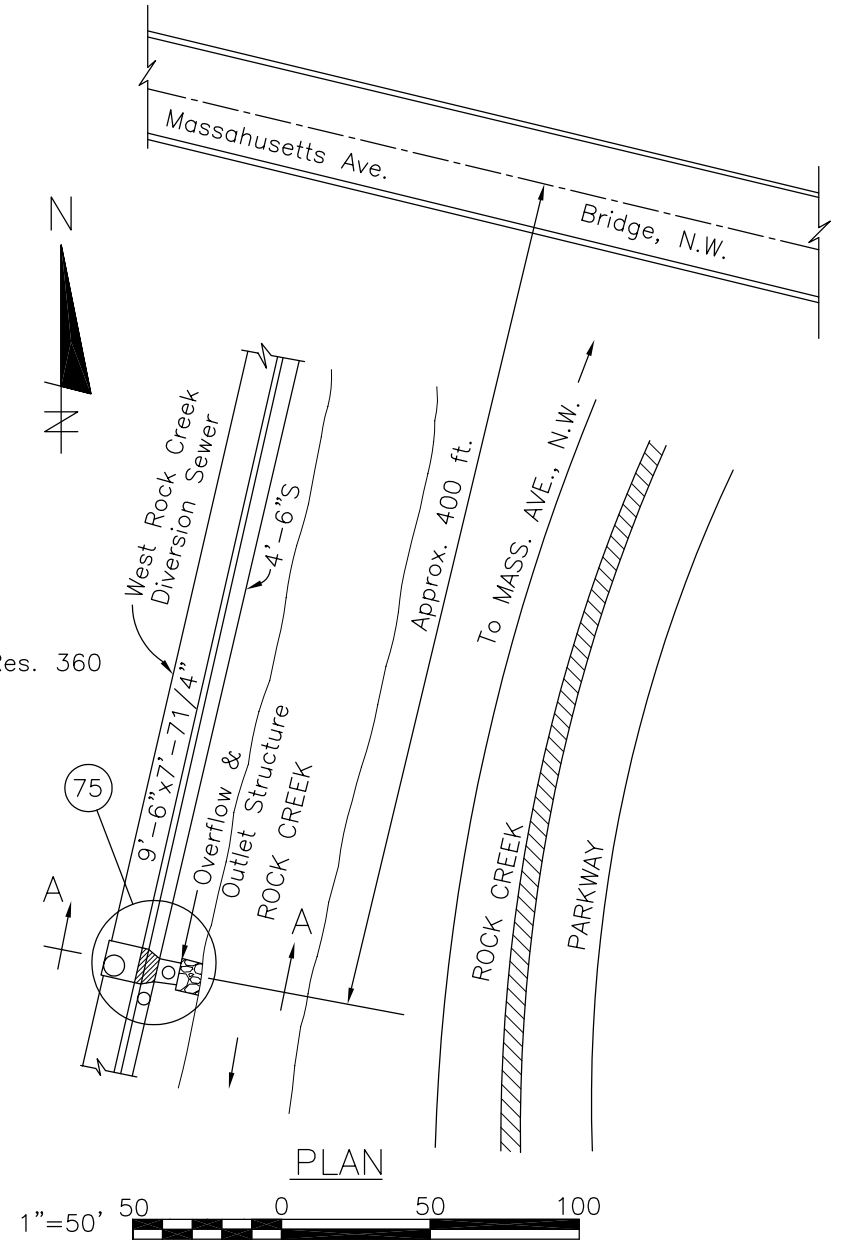
The 21–inch Storm Sewer line discharges into Rock Creek.

There is an Outlet Structure and Gate at the Outlet.

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: FEBRUARY 2012
ASSOCIATED NPDES OUTFALL # 053

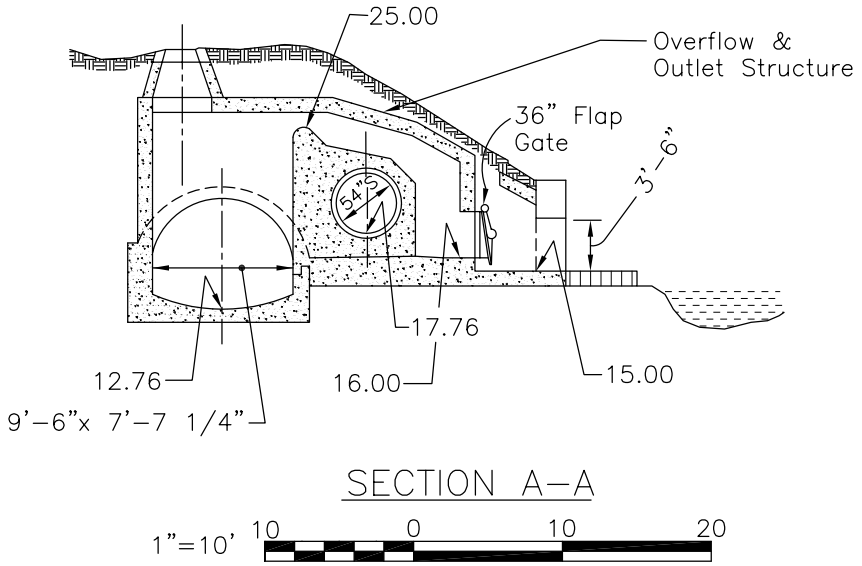
THIS OVERFLOW HAS BEEN ELIMINATED BASED ON UPSTREAM SEPARATION

STRUCTURE NO. 74



STRUCTURE NO. 75, West Rock Creek Diversion Sewer. West Side of Rock Creek About 400 ft. South of Massahusetts Avenue, N.W.
This is a side-overflow structure . The Overflow is formed by a masonry dam. The West Rock Creek Diversion Sewer passes through the structure, and the Overflow occurs only when the sewer surcharges.

There is an Outlet Structure and Gate at the Outlet.



SECTION A-A

1"=10' 10 0 10 20

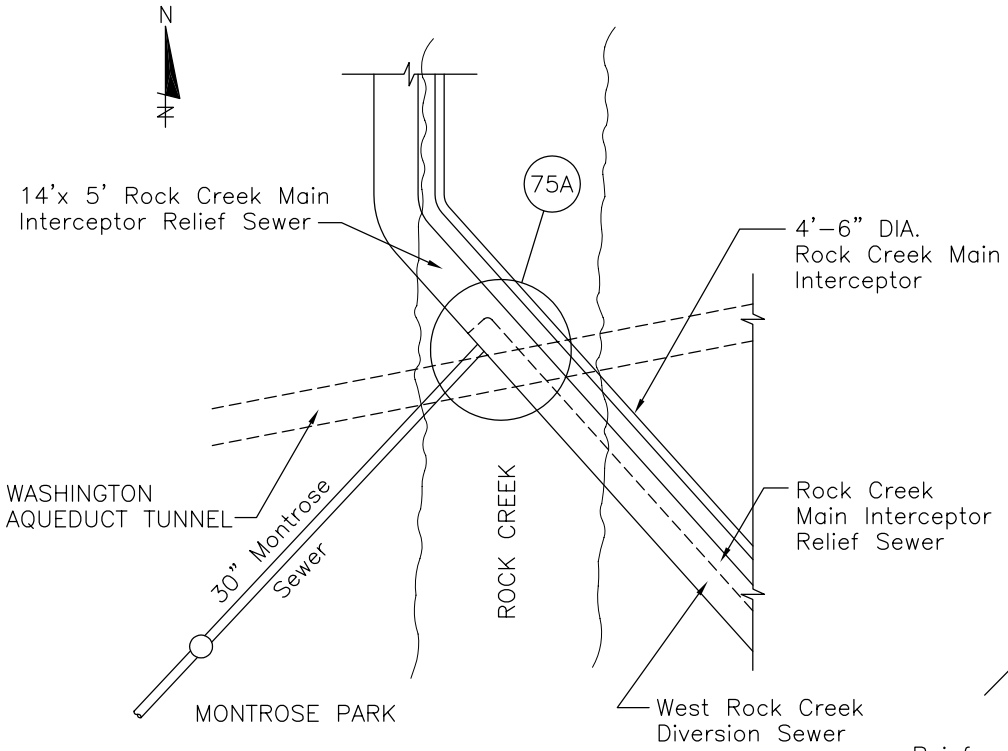
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 054

STRUCTURE NO.
75

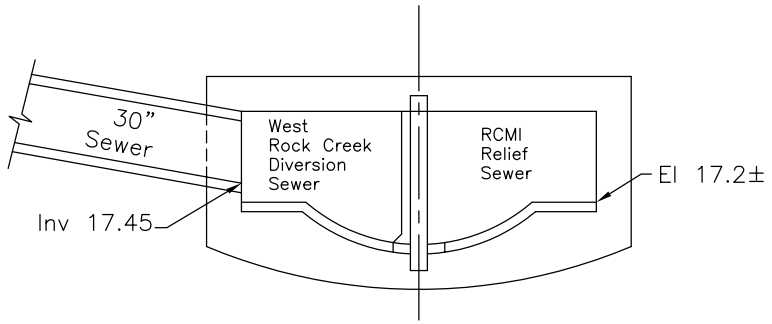
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-75 1:1 04/23/04 15:21 GH-G

STRUCTURE NO. 75A – MONTROSE PARK SEWER

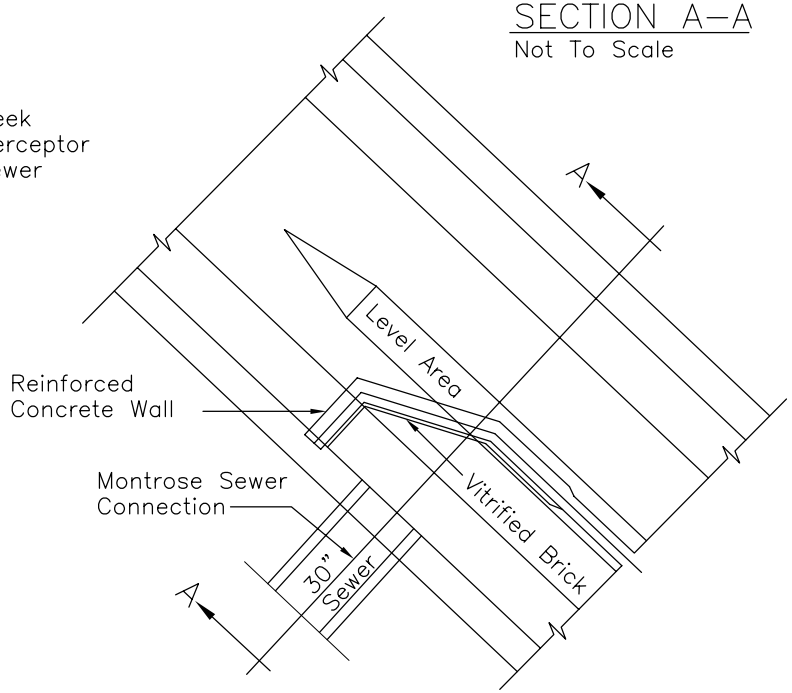
Structure No. 75a is the start of the partition in the 14'x 5' West Rock Creek Diversion Sewer, to create the Combined West Rock Creek Diversion Sewer and the Rock Creek Main Interceptor Relief Sewer.



LOCATION PLAN
Not To Scale



SECTION A–A
Not To Scale



PLAN
STRUCTURE NO. 75A
Not To Scale

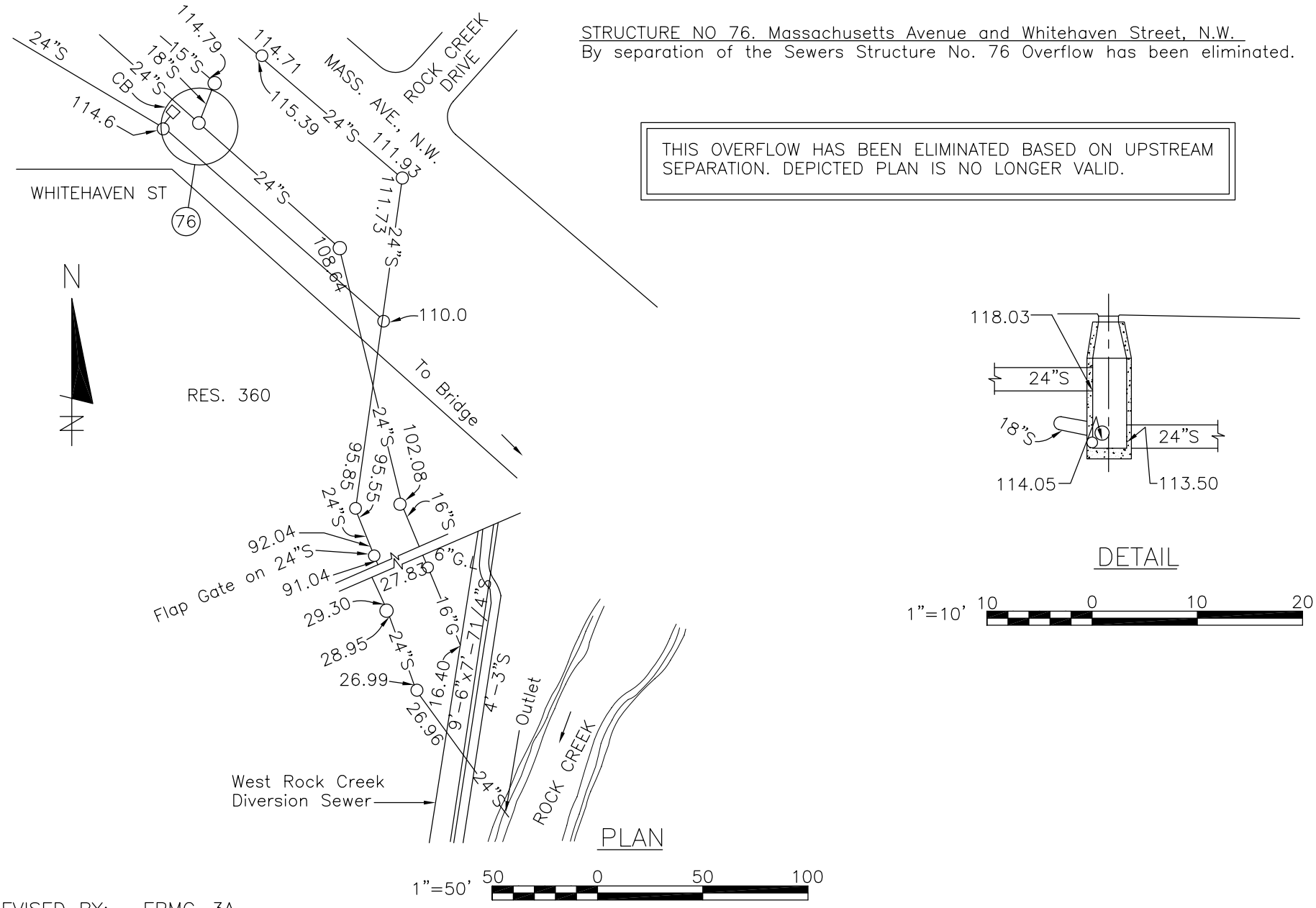
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO. 75a

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-75A 1:1 04/23/04 15:22 GH-G

STRUCTURE NO 76. Massachusetts Avenue and Whitehaven Street, N.W.
By separation of the Sewers Structure No. 76 Overflow has been eliminated.

THIS OVERFLOW HAS BEEN ELIMINATED BASED ON UPSTREAM SEPARATION. DEPICTED PLAN IS NO LONGER VALID.



PLAN

1"=50' 50 0 50 100

DETAIL

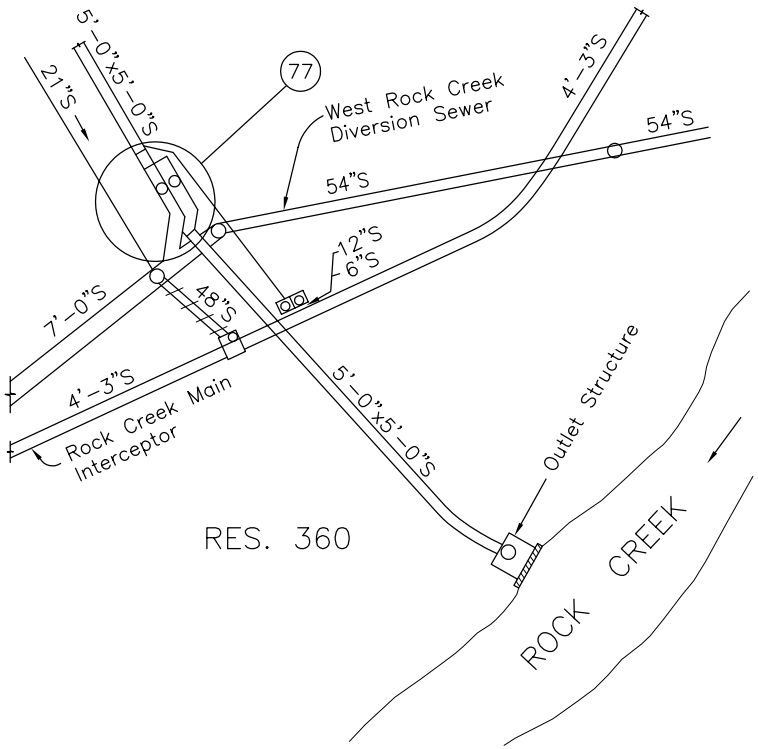
1"=10' 10 0 10 20

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 055

STRUCTURE NO.
76

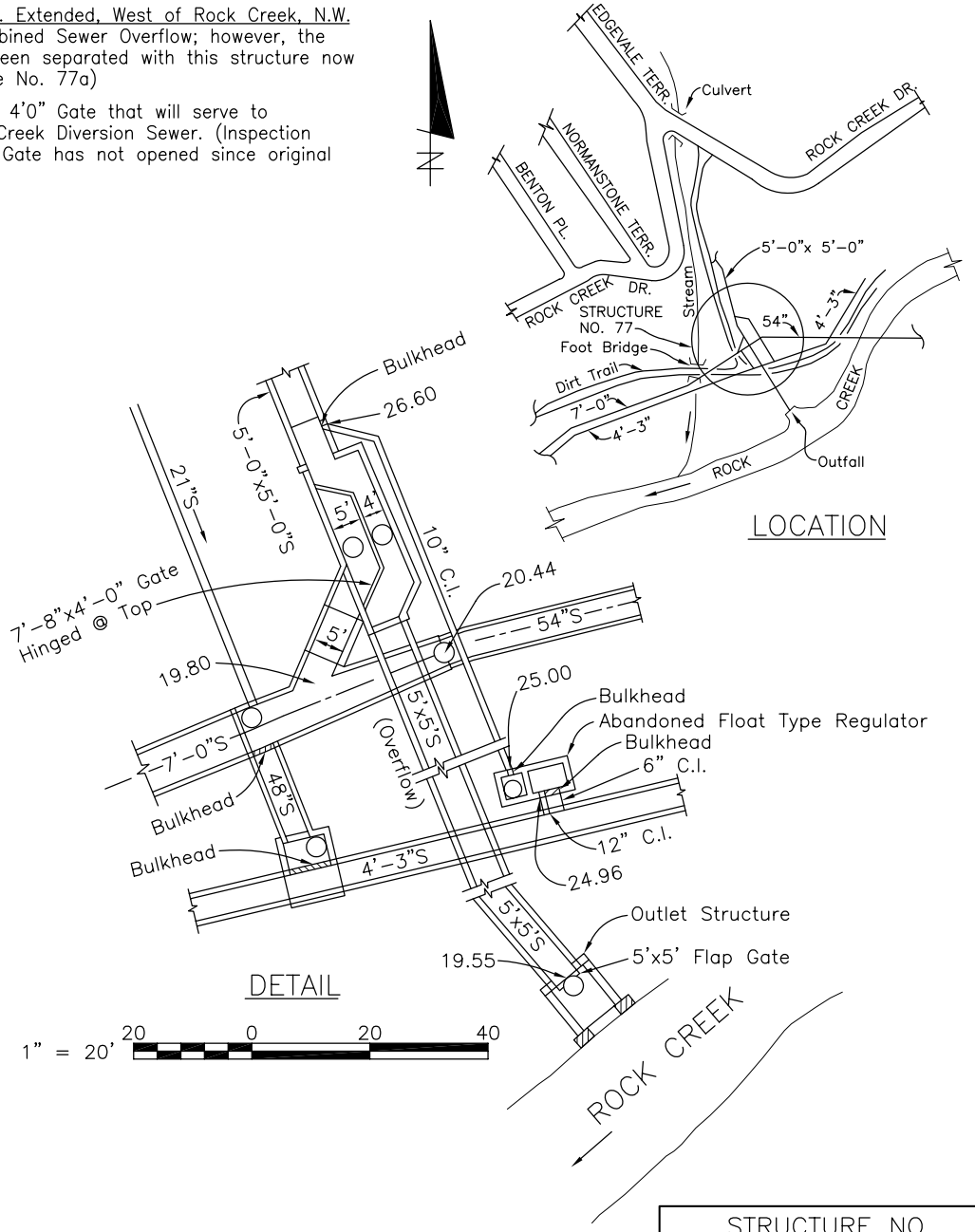
STRUCTURE NO. 77, Normanstone Dr. Extended, West of Rock Creek, N.W.
This structure was previously a Combined Sewer Overflow; however, the upstream drainage area has since been separated with this structure now conveying Stormwater. (See Structure No. 77a)

At this time there is now a 7'8" by 4'0" Gate that will serve to relieve surcharge in the West Rock Creek Diversion Sewer. (Inspection in January, 1980, revealed that the Gate has not opened since original installation.)



PLAN

1" = 50' 50 0 50 100



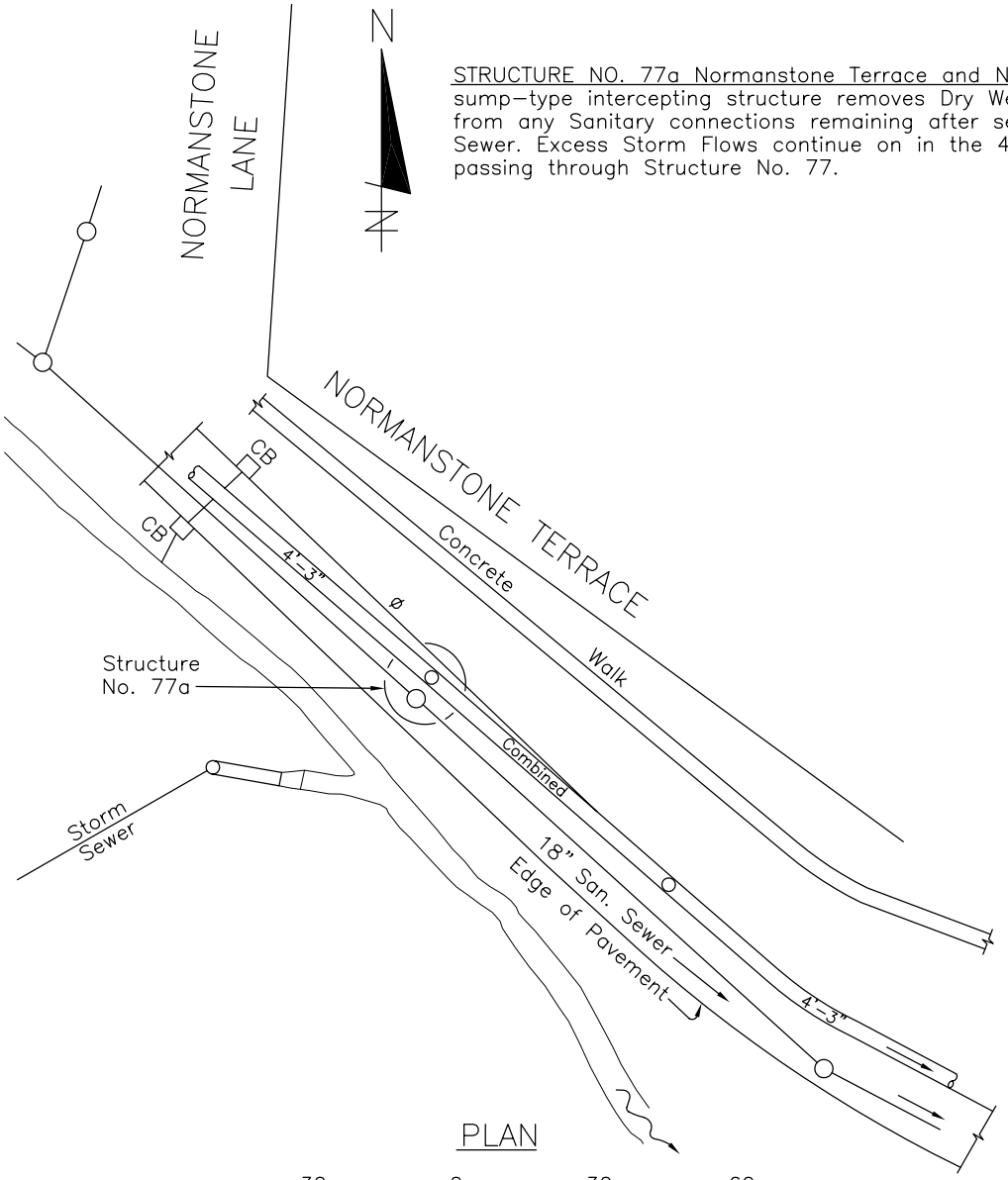
DETAIL

1" = 20' 20 0 20 40

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 056

STRUCTURE NO.
77

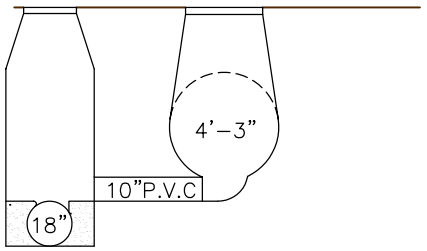
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-77 1:1 04/23/04 15:26 GH-G



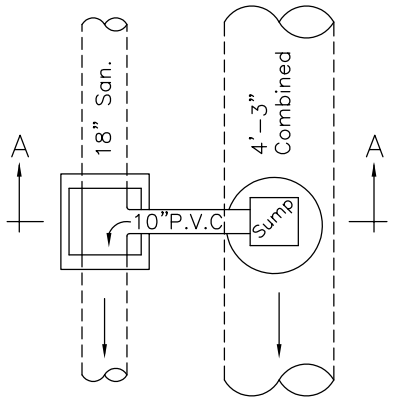
PLAN

1" = 30' 30 0 30 60

STRUCTURE NO. 77a Normanstone Terrace and Normanstone Lane, N.W. This sump-type intercepting structure removes Dry Weather Flow, including that from any Sanitary connections remaining after separation, to an 18" Sanitary Sewer. Excess Storm Flows continue on in the 4'3" line to Rock Creek, after passing through Structure No. 77.



SECTION A-A



DETAILS

1" = 5' 5 0 5 10

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 056

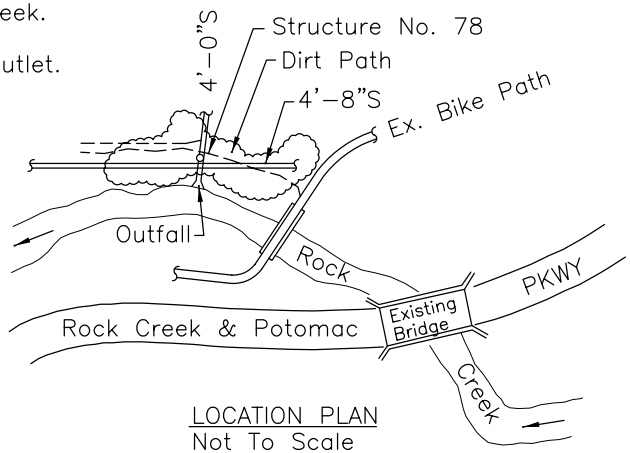
STRUCTURE NO. 77a

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-77A 1:1 04/23/04 15:27 GH-G

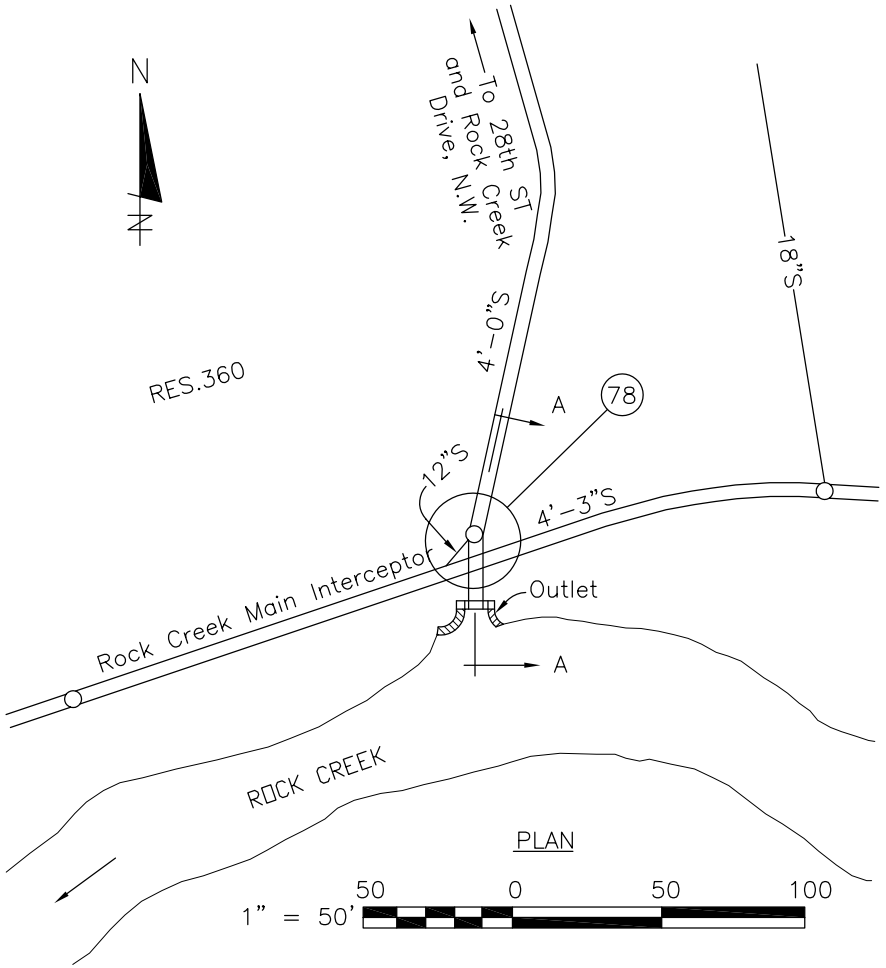
STRUCTURE NO. 78, 28th Street, Extended, and West of Rock Creek, N.W.
This structure has a sump–type regulator. The Storm Overflow is formed by the continuation of the normal section downstream from a depressed invert in the Overflow Manhole. A 4–ft. Combined Sewer enters the Structure, and a 12–inch intercepting connection conveys the Dry–Weather Flow into the Rock Creek Main Interceptor.

The 4–ft. Overflow line discharges into Rock Creek.

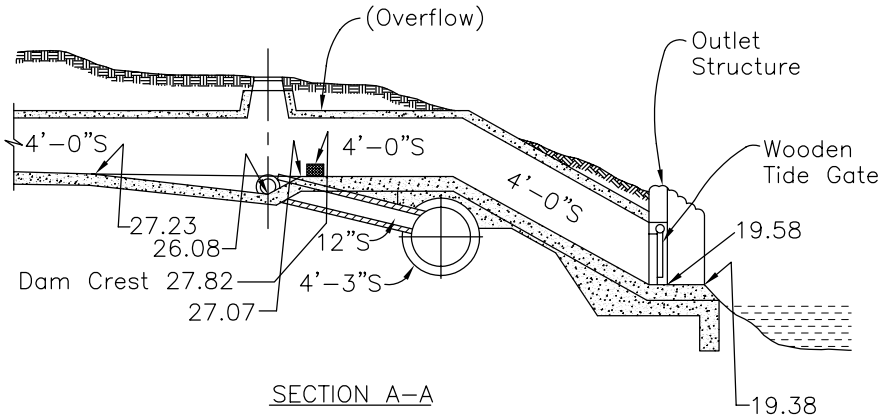
There is an Outlet Structure and Gate at the Outlet.



LOCATION PLAN
Not To Scale



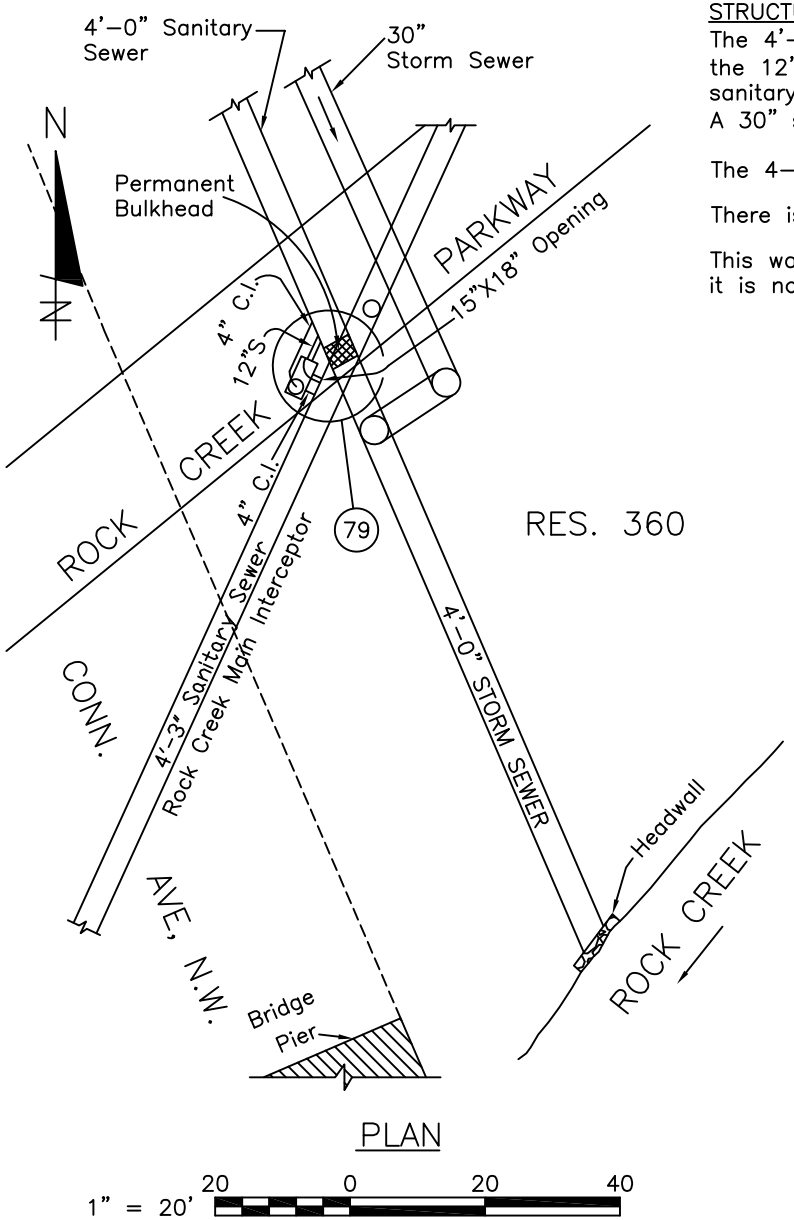
PLAN
1" = 50'
50 0 50 100



SECTION A–A
1" = 10'
10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 057

STRUCTURE NO.
78



PLAN

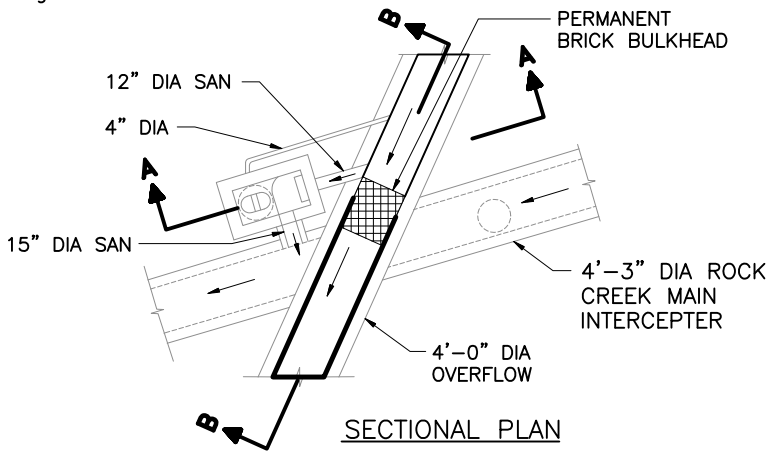
1" = 20' 20 0 20 40

STRUCTURE NO. 79, Connecticut Avenue and Rock Creek Parkway, N.W.
The 4'–0" sanitary sewer passes through diversion structure 79 VIA the 12" and 15" connections. A permanent bulkhead in the 4'–0" sanitary sewer separates sanitary sewage from discharging at CSO 058. A 30" storm connects to the 4'–0" sewer downstream of the bulkhead.

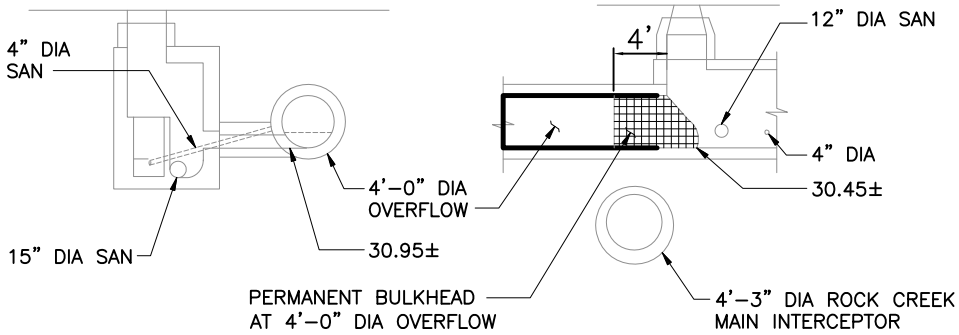
The 4–ft. Storm Sewer line discharges into Rock Creek.

There is a Headwall and no Gate at the Outlet.

This was formerly a float type Regulator. The float devise has been removed, it is now a sump type Regulator.



SECTIONAL PLAN



SECTION A–A SECTION B–B

DETAIL

THIS OVERFLOW HAS BEEN ELIMINATED BASED ON UPSTREAM SEPARATION

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: FEBRUARY 2012
ASSOCIATED NPDES OUTFALL # 058

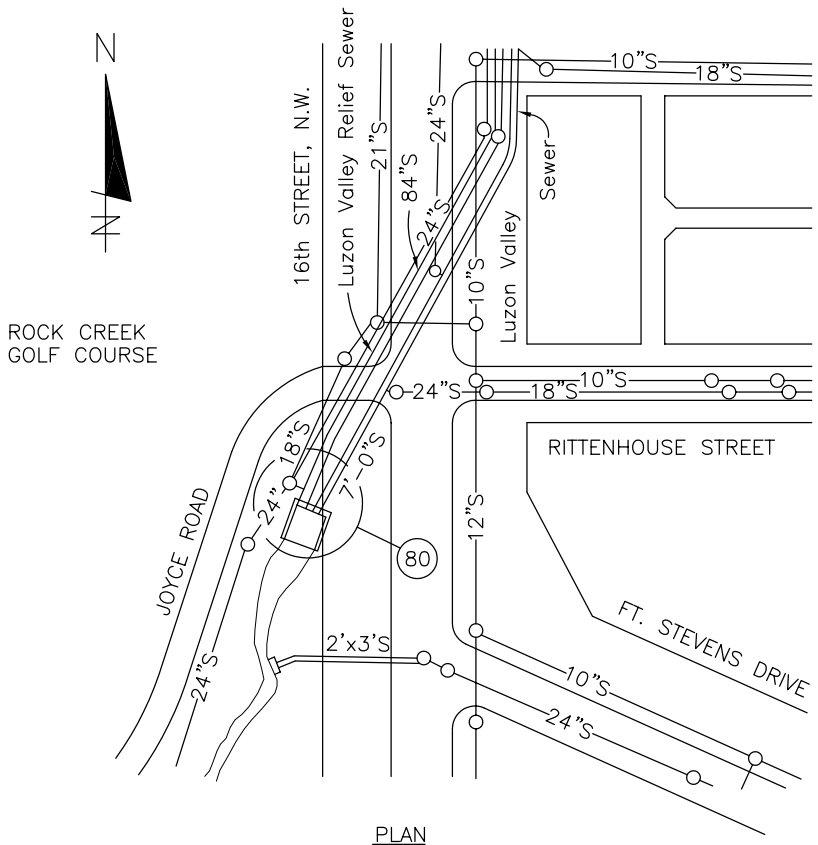
STRUCTURE NO. 79

STRUCTURE NO. 80, Lozon Valley Relief Sewer, 16th and Rittenhouse Streets, N.W. This structure has a sump–type Regulator. The Storm Overflow is formed by a masonary dam. The 84–inch Combined Sewer enters the Overflow Chamber and a 12–inch intercepting connection conveys the Dry–Weather Flow into the 24–inch Sanitary Sewer which in turn discharges into Rock Creek Main Interceptor.

The 84–inch Overflow line discharges into Rock Creek.

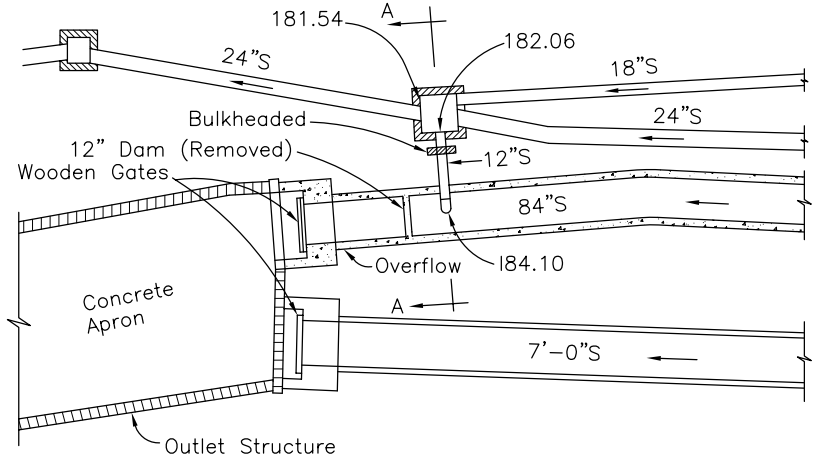
There is an Outlet Structure and Gate at the Outlet.

THIS OVERFLOW HAS BEEN ELIMINATED BASED ON UPSTREAM SEPARATION.

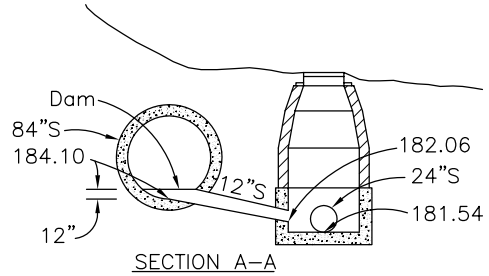


PLAN

1" = 50'



SCALE : 1"=20'



SECTION A–A

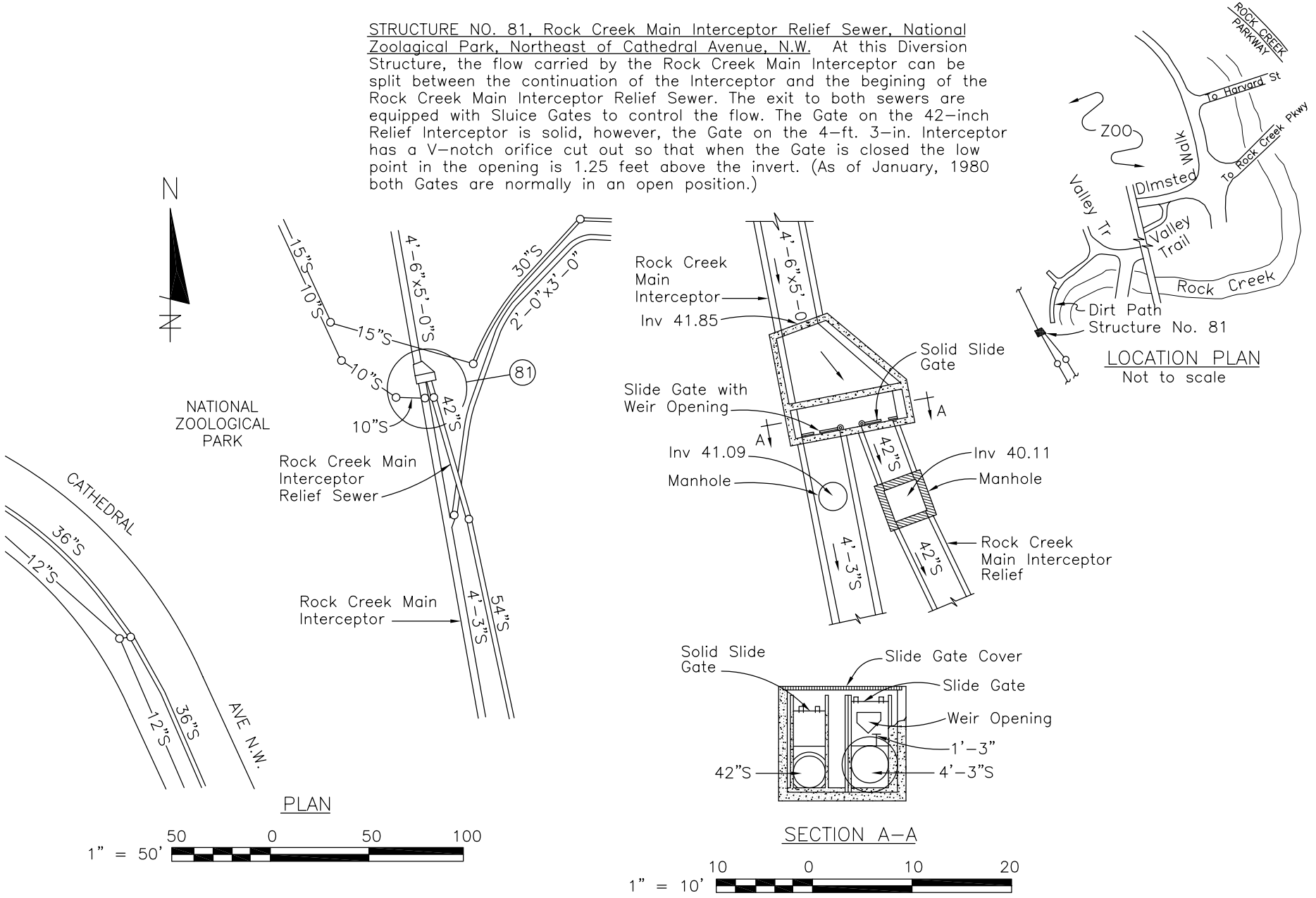
DETAIL

1" = 10'

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO. 80

STRUCTURE NO. 81, Rock Creek Main Interceptor Relief Sewer, National Zoological Park, Northeast of Cathedral Avenue, N.W. At this Diversion Structure, the flow carried by the Rock Creek Main Interceptor can be split between the continuation of the Interceptor and the begining of the Rock Creek Main Interceptor Relief Sewer. The exit to both sewers are equipped with Sluice Gates to control the flow. The Gate on the 42-inch Relief Interceptor is solid, however, the Gate on the 4-ft. 3-in. Interceptor has a V-notch orifice cut out so that when the Gate is closed the low point in the opening is 1.25 feet above the invert. (As of January, 1980 both Gates are normally in an open position.)



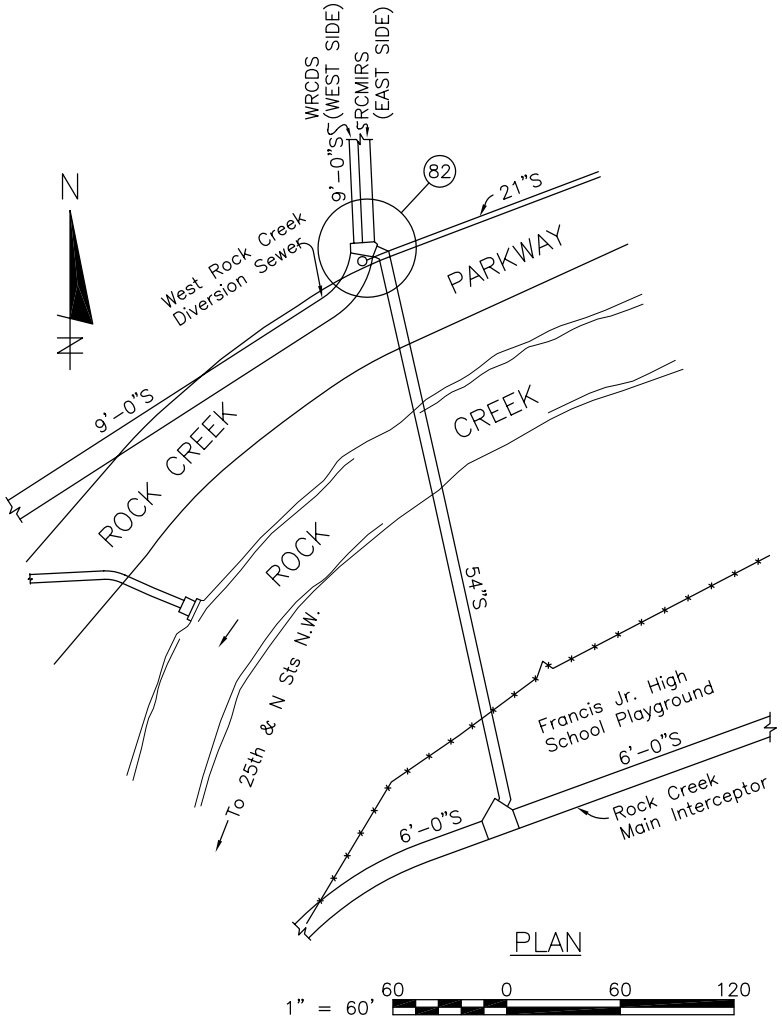
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO. 81

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-81 1:1 04/23/04 15:33 GH-G

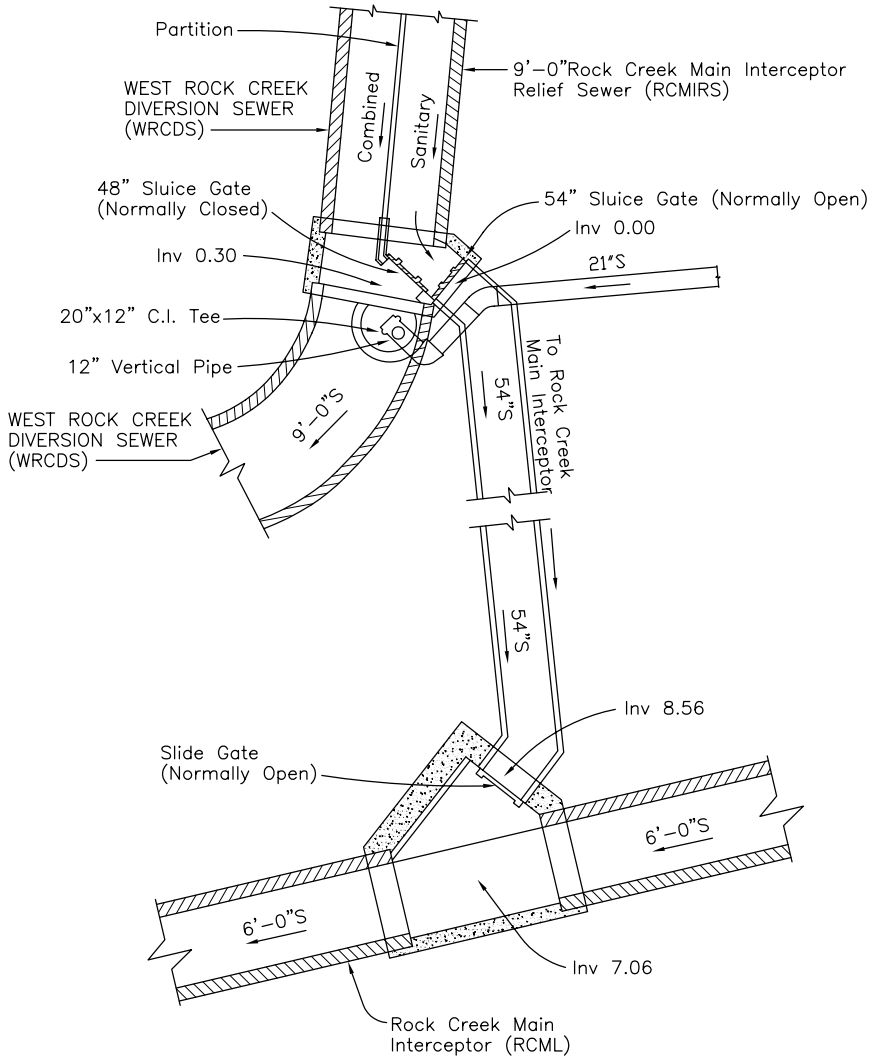
STRUCTURE NO. 82, West Rock Creek Diversion Sewer, 25th and P Streets, N.W., both extended. This structure controls the Rock Creek Main Interceptor Relief Flow. Normal operation directs all of the sanitary portion of the RCMIRS (east half of the partitioned sewer) through the 54–inch diameter connection to the 6–ft. Rock Creek Main Interceptor.

In an emergency the 48–inch Sluice Gate can be opened and the two 54–inch Sluice Gates closed to divert all flow in the RCMIRS into the WRCDS.



PLAN

1" = 60' 60 0 60 120



DETAIL

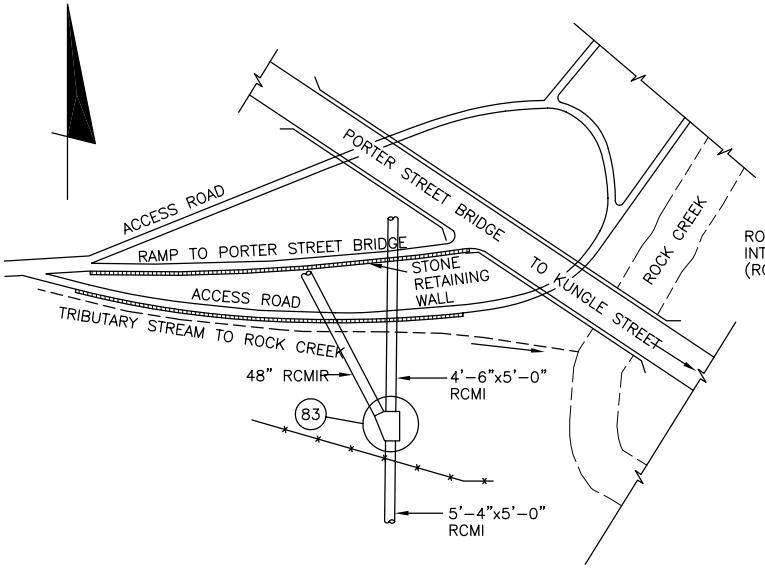
1" = 10' 10 0 10 20

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

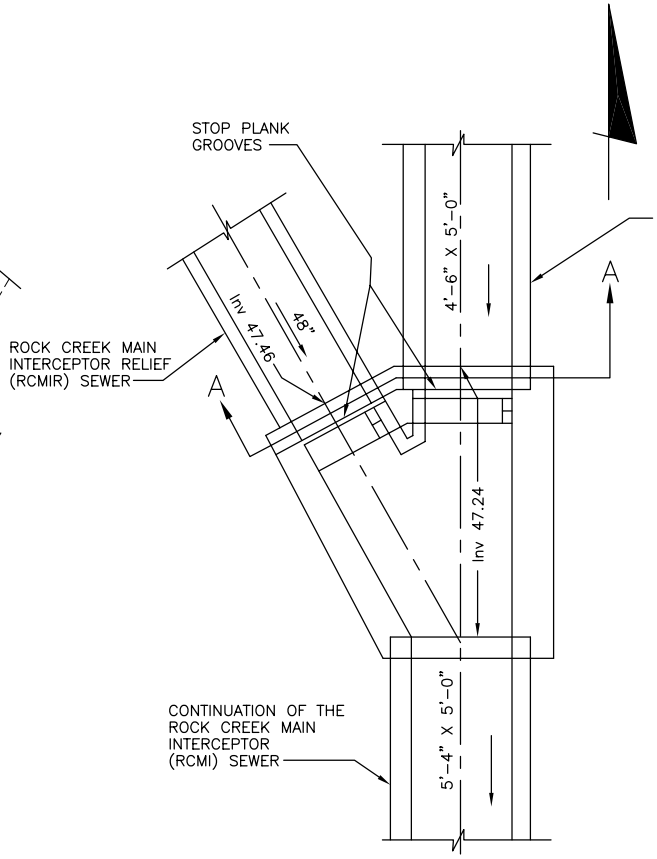
STRUCTURE NO.
82

STRUCTURES NUMBERS 83 – ROCK CREEK MAIN INTERCEPTOR SPLIT

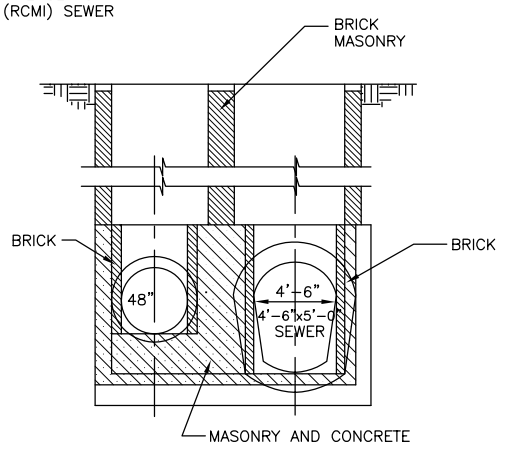
This is a Junction Chamber the 48–inch Rock Creek Main Interceptor Relief (RCMIR) and the 4'–6"x 5'–0" Rock Creek Main Interceptor (RCMI) with the 5'–4"x 5'–0" continuation of the RCMI. (See Structure No. 83A & 83B for location on upstream initiation of Relief Sewer).



LOCATION PLAN
NOT TO SCALE



PLAN – STRUCTURE 83
NOT TO SCALE



SECTION A–A
NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

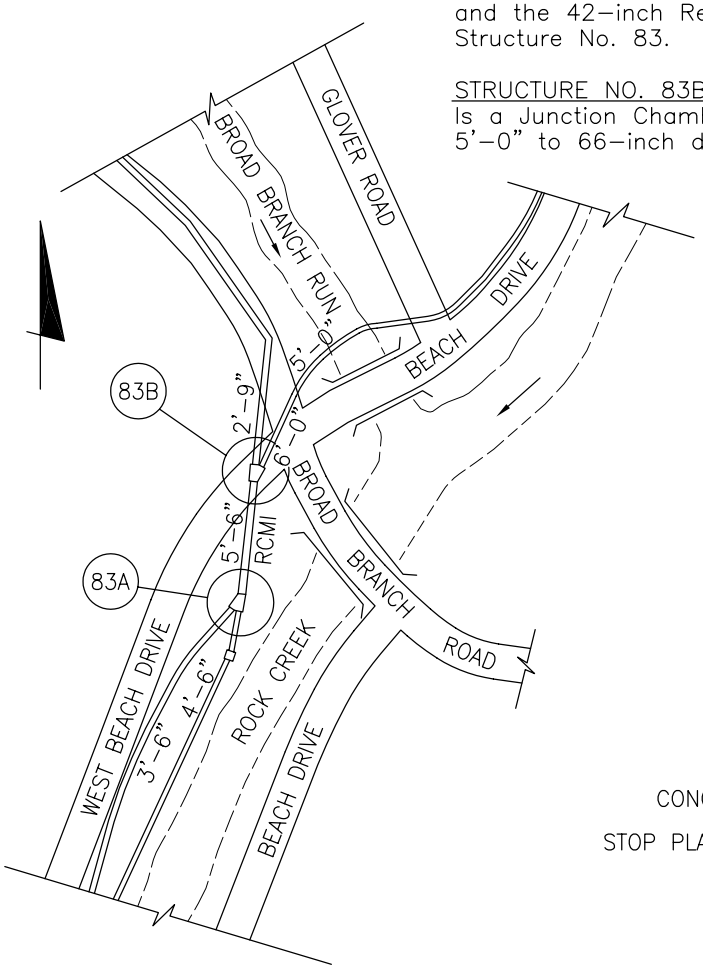
STRUCTURE NO.
83

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–83 1:1 04/23/04 15:36 GH–G

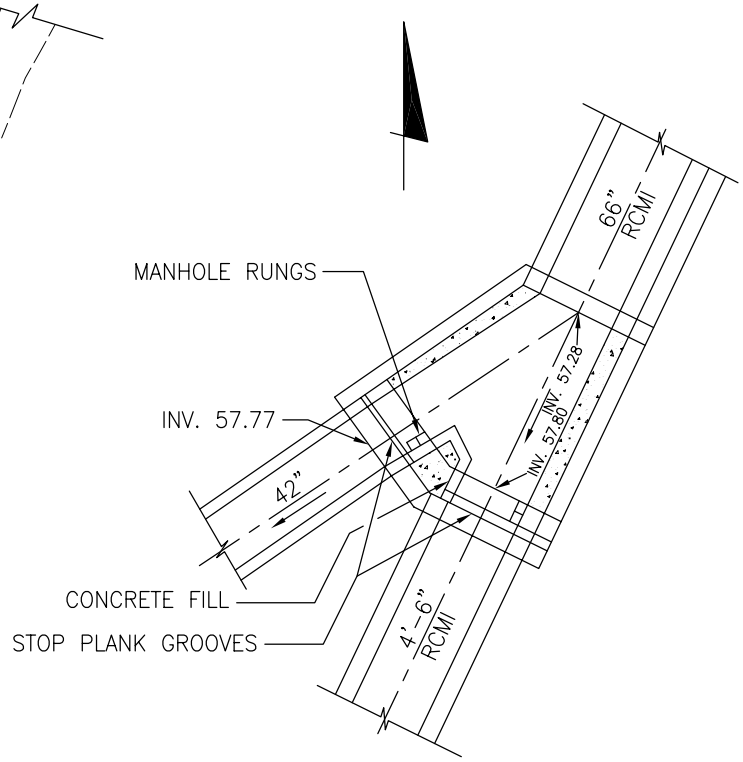
STRUCTURES NO. 83A AND 83B – ROCK CREEK MAIN INTERCEPTOR SPLIT

STRUCTURE NO. 83A
Is a Junction Chamber at the transition of the RCMI from 66–inch diameter to 4'–6" and the 42–inch Relief Sewer which becomes a 48–inch Sewer and terminates at Structure No. 83.

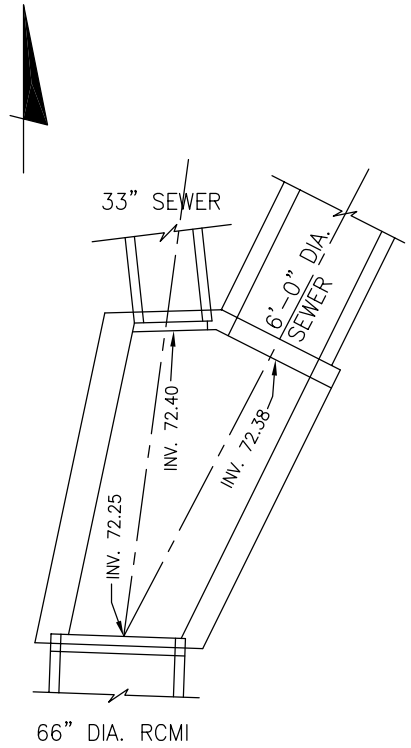
STRUCTURE NO. 83B
Is a Junction Chamber between a 33–inch Sewer and the transition of the RCMI from 5'–0" to 66–inch diameter.



LOCATION PLAN
NOT TO SCALE



STRUCTURE 83A
NOT TO SCALE



STRUCTURE 83B
NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
83a & 83b

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-83A-83B 1:1 04/23/04 15:38 GH-G

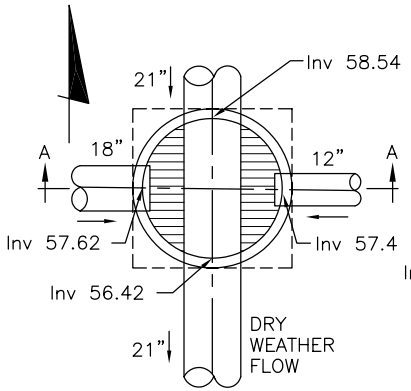
STRUCTURE NO. 84 & 84A

STRUCTURE NO. 84 – 26th AND P STREETS. N.W.

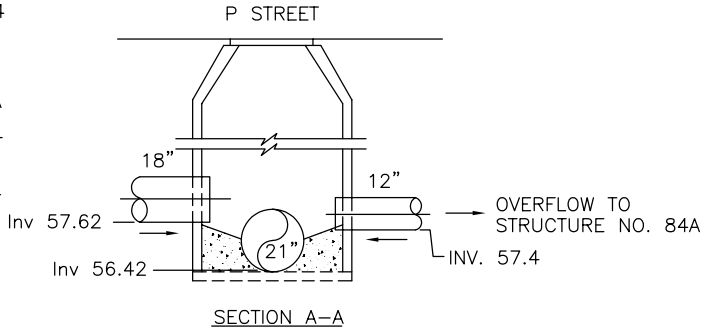
This structure consist of the 21–inch 26th Street Sewer which intercepts the P Street Sewer at the intersection of 26th and P Street. During low flow conditions, the 21–inch 26th Street Sewer intercepts the 18–inch and 12–inch P Street Sewer at this structure. Dry Weather Flow continues down 26th Street to the 4'–0" diameter O Street Sewer at the intersection of O Street and 26th Streets. The O Street Sewer carries flow from the O Street Drainage Area and the P Street Drainage Area to Structure No. 73 where flow is then diverted into the 5'–6"x 7'–7 1/4" West Rock Creek Diversion Sewer.

STRUCTURE NO. 84A – P STREET. N.W.

This structure consist of the 12–inch P Street Sewer and the 8–inch P Street Sewer. During high flow conditions, flow may overflow from the 12–inch P Street Sewer into the 8–inch P Street Sewer. The flow will continue east on P Street and discharge into Rock Creek.



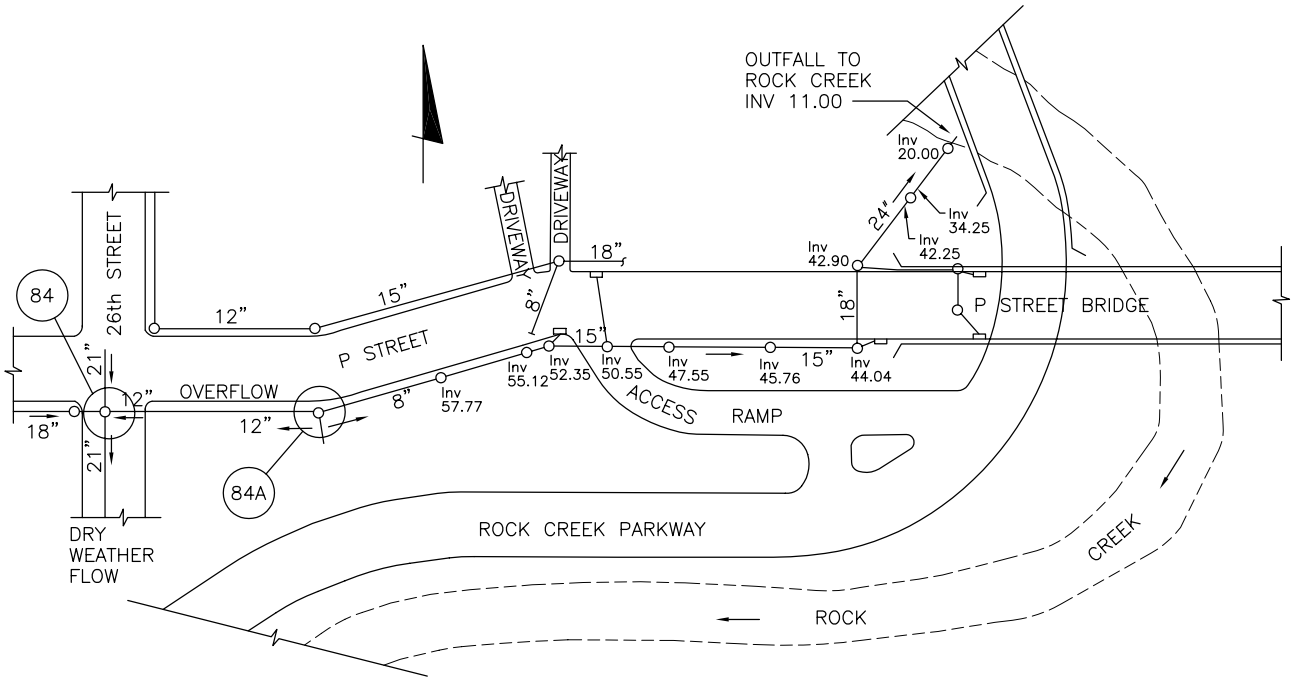
PLAN



SECTION A–A

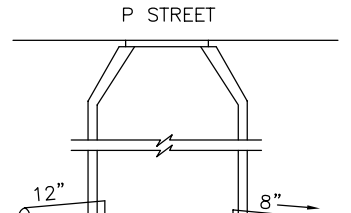
STRUCTURE NO. 84

NOT TO SCALE

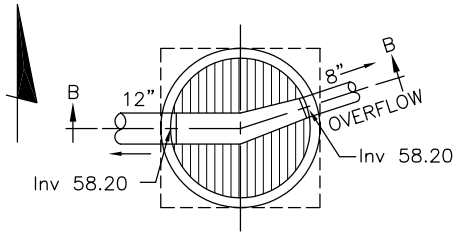


LOCATION PLAN

NOT TO SCALE



SECTION B–B



PLAN

STRUCTURE NO. 84A

NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # 060

STRUCTURE NO.
84, 84a

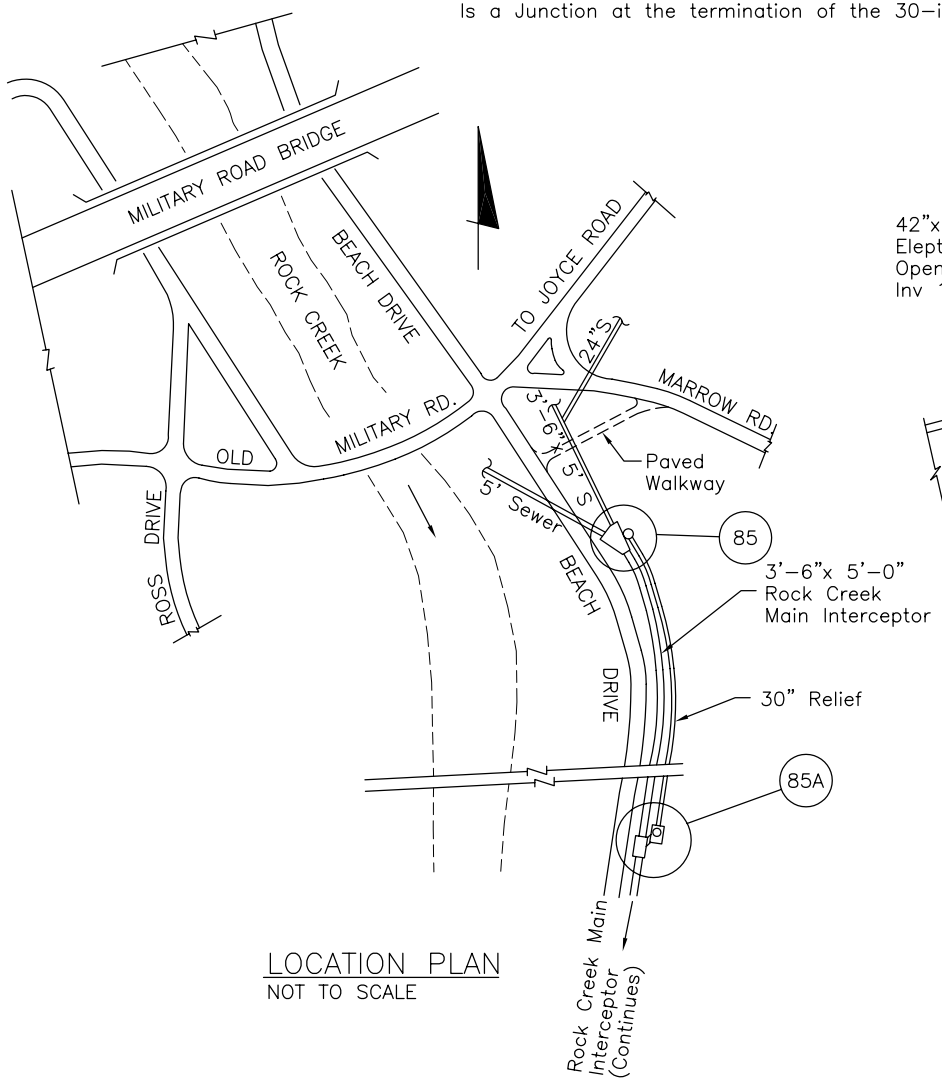
STRUCTURES NOS. 85 & 85A – ROCK CREEK MAIN INTERCEPTOR SPLIT

STRUCTURE NO. 85

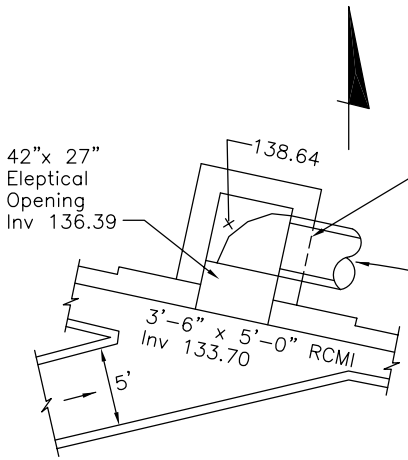
Is a 30–inch Overflow Relief Sewer connection to the 3'–6"x 5'–0" RCMI.

STRUCTURE NO. 85A

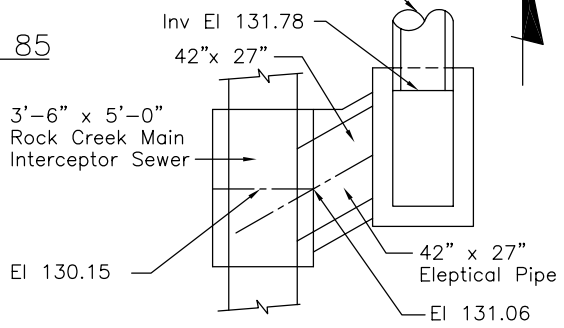
Is a Junction at the termination of the 30–inch Relief Sewer back into the 3'–6"x 5'–0" RCMI.



LOCATION PLAN
NOT TO SCALE



STRUCTURE NO. 85
NOT TO SCALE



STRUCTURE NO. 85A
NOT TO SCALE

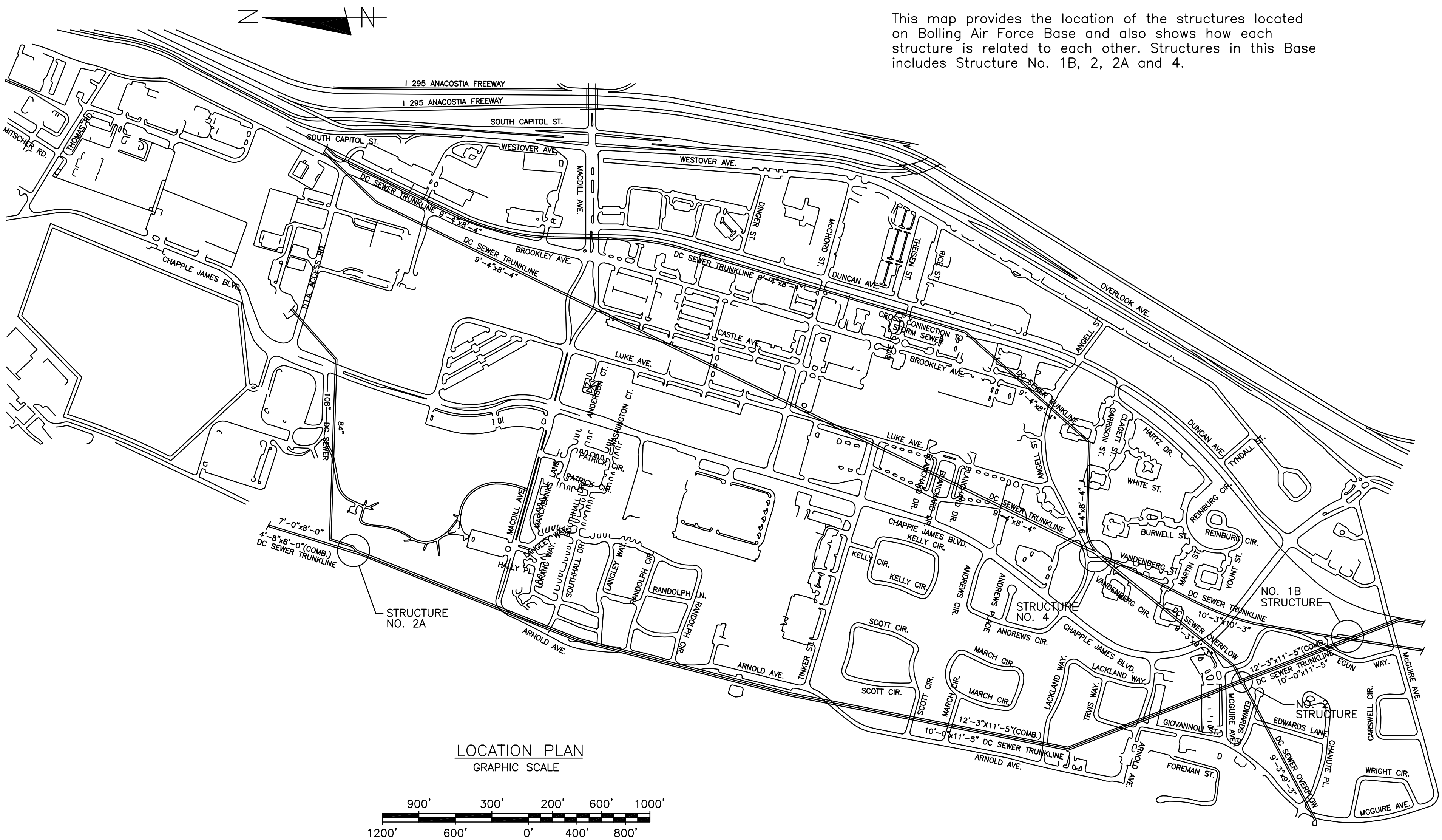
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
85 & 85a

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR–85–85A 1:1 04/23/04 15:40 GH–G

BOLLING AIR FORCE BASE SEWER SYSTEM

This map provides the location of the structures located on Bolling Air Force Base and also shows how each structure is related to each other. Structures in this Base includes Structure No. 1B, 2, 2A and 4.



LOCATION PLAN
GRAPHIC SCALE

900' 300' 200' 600' 1000'
1200' 600' 0' 400' 800'

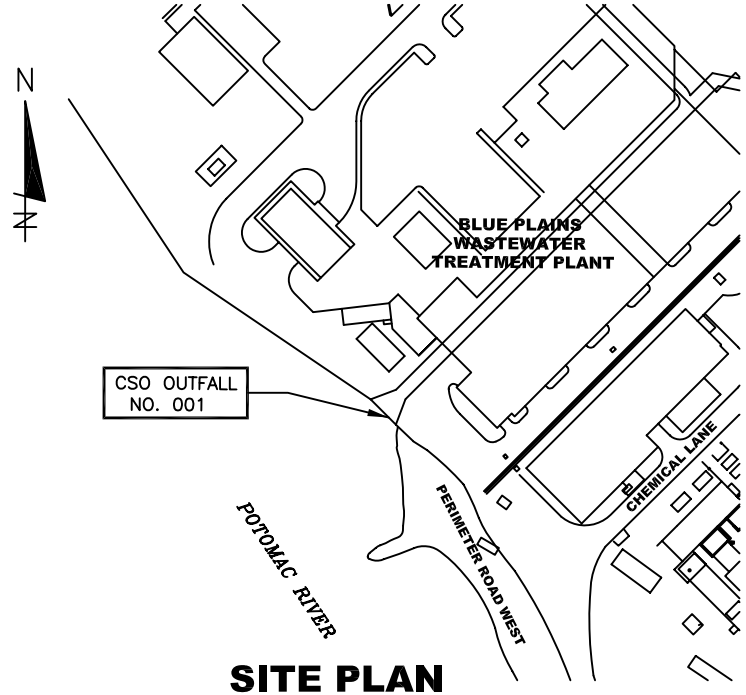
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\BOLLING-1

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

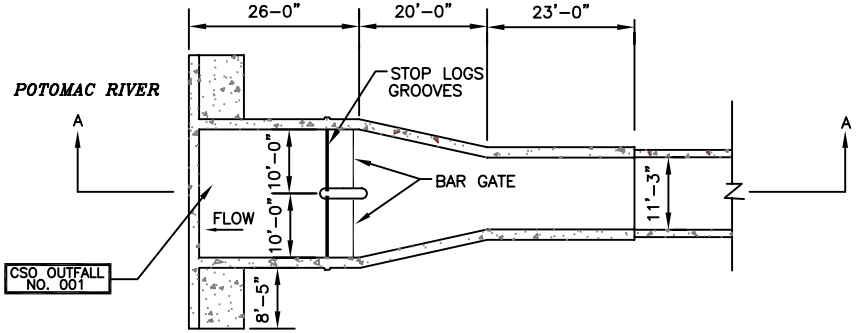
STRUCTURE NO.
BOLLING-1

Section 3

Outfall Structures and Tide Gates

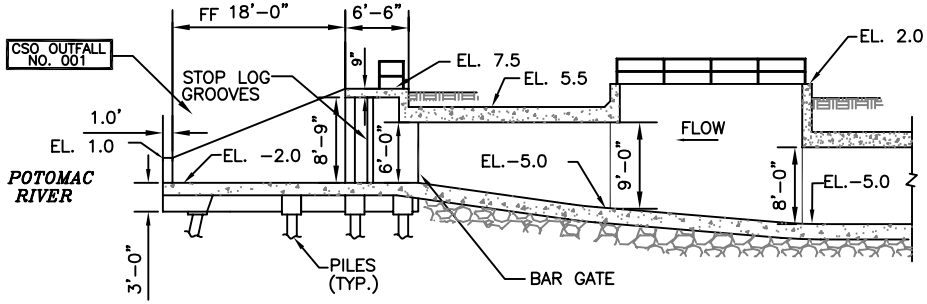


SITE PLAN
N.T.S.



DETAIL PLAN
N.T.S.

PHOTO

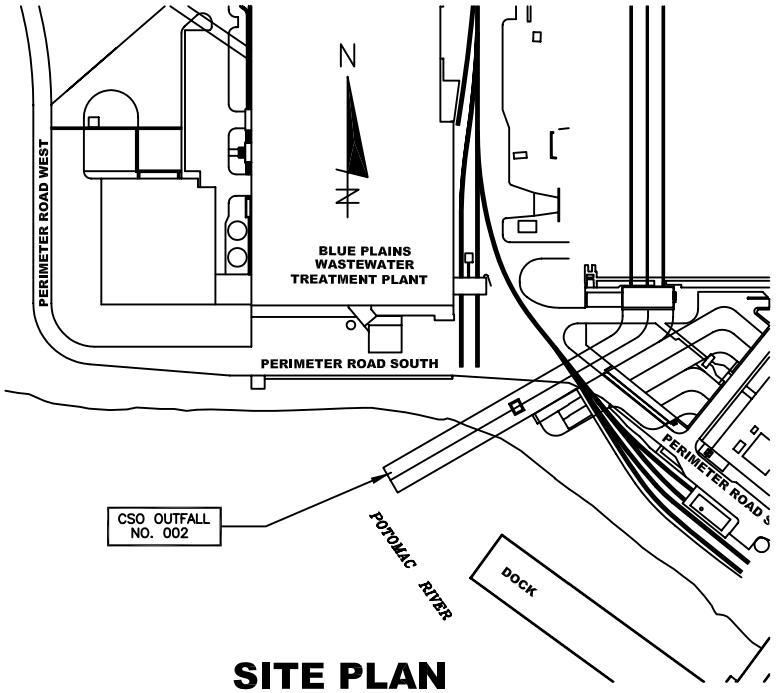


SECTION A-A
N.T.S.

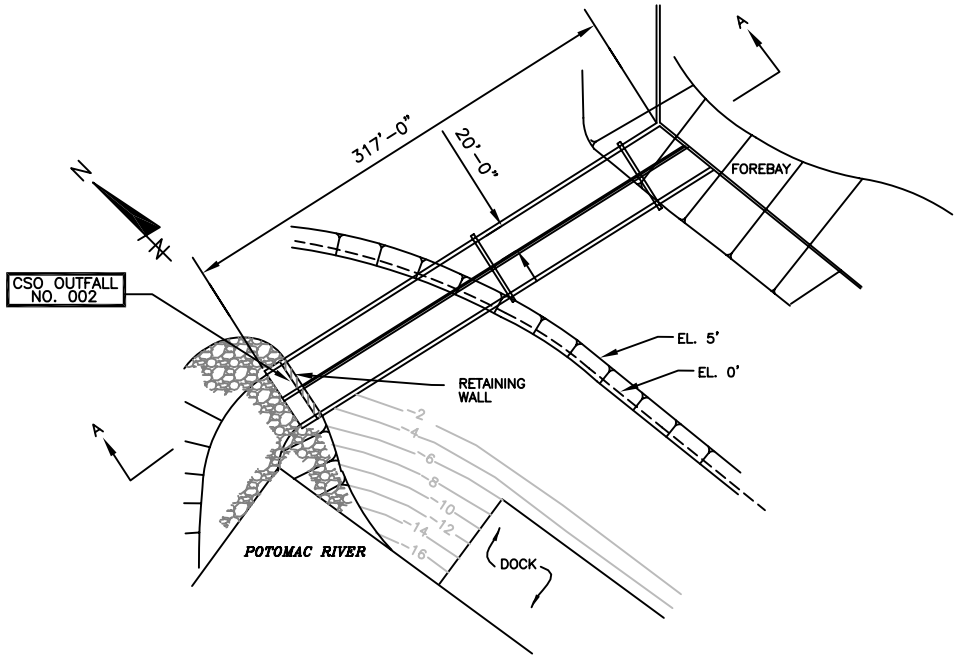
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO.
001

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES–001

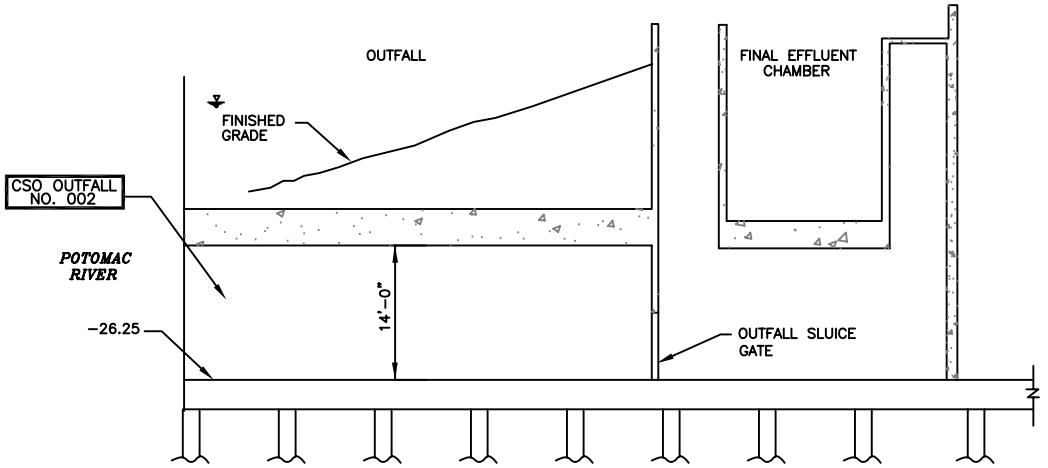


SITE PLAN
N.T.S.



PLAN
N.T.S.

PHOTO

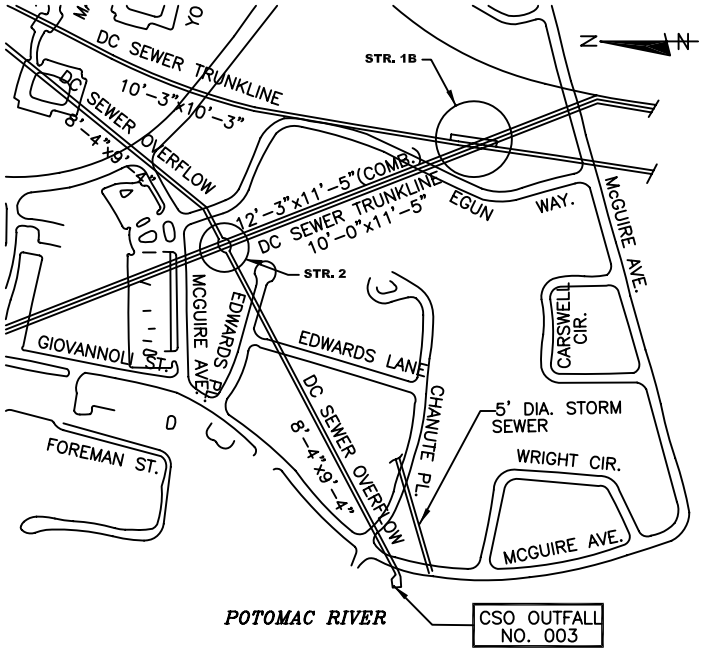


SECTION A-A
N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: WWTP OUTFALL

NPDES NO.
002

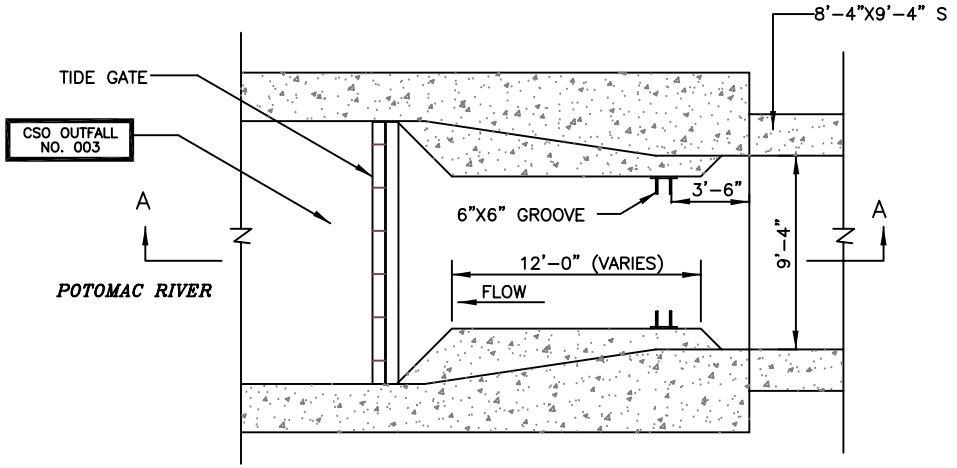
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-001



SITE PLAN

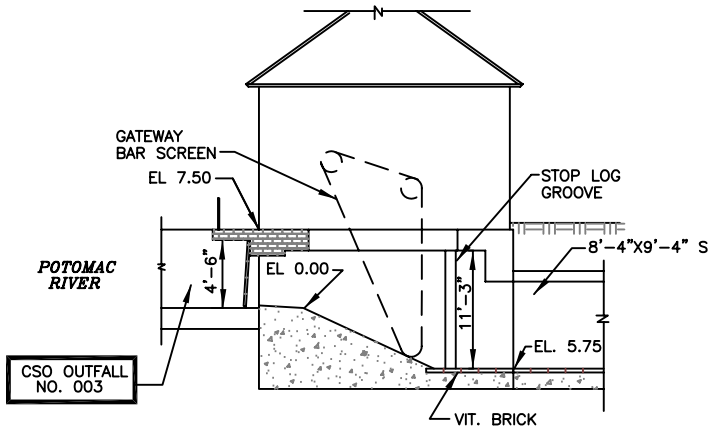
SCALE: 1"=2000'

PHOTO



PLAN

N.T.S.



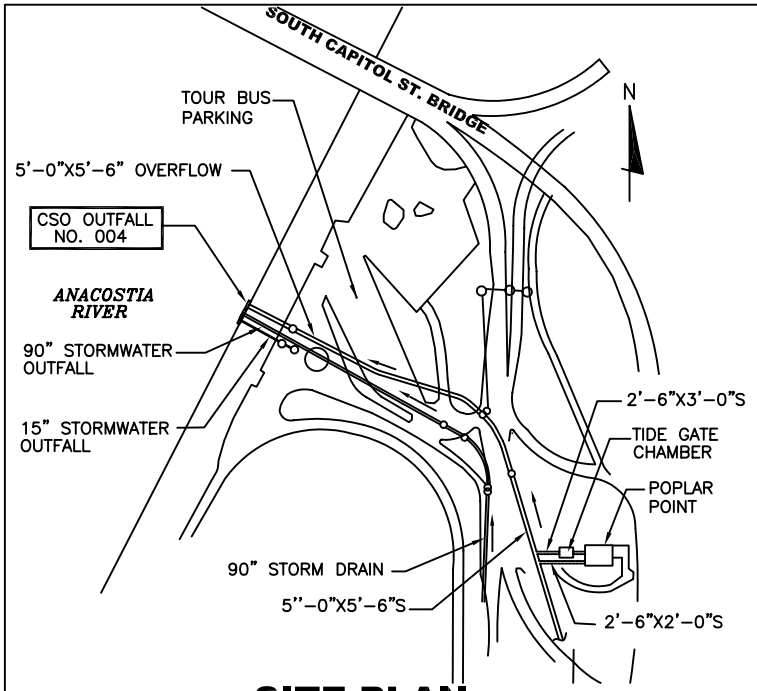
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

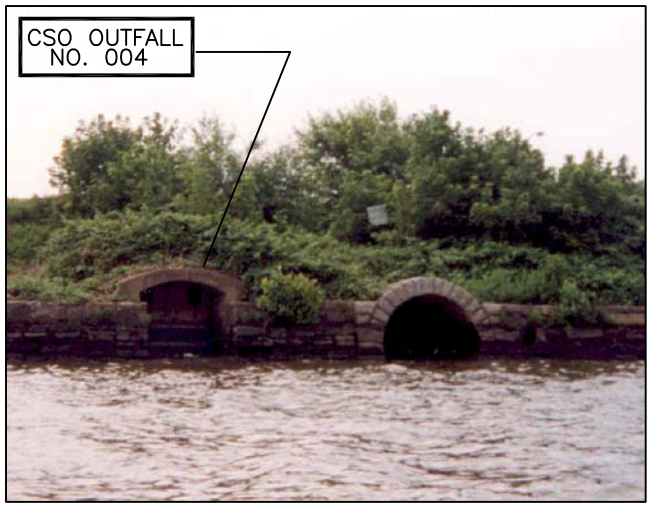
NPDES NO. 003

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-003

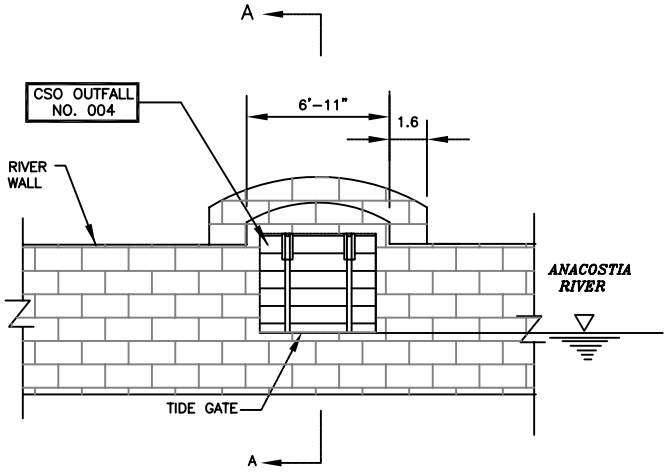


SITE PLAN

N.T.S.

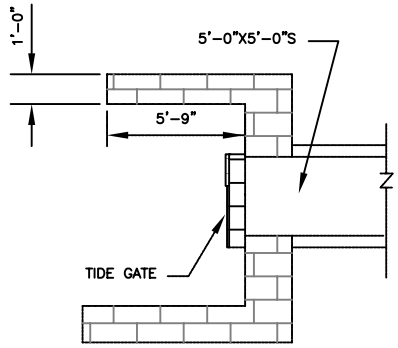


PHOTO



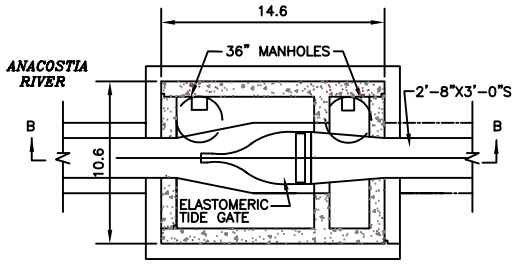
ELEVATION

N.T.S.



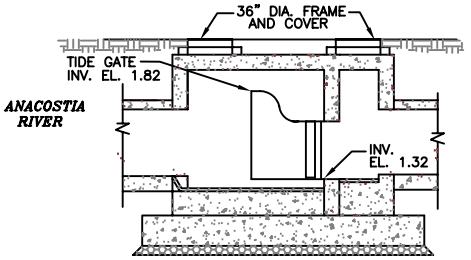
SECTION A-A

N.T.S.



TIDE GATE CHAMBER PLAN

N.T.S.



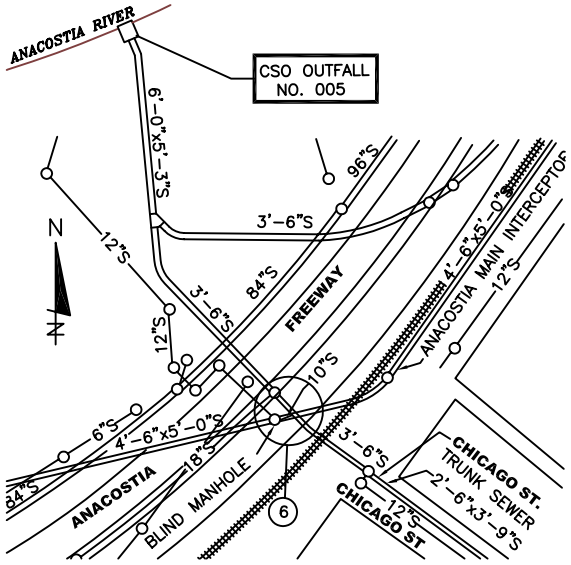
SECTION B-B

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: EMERGENCY RELIEF

NPDES NO. 004

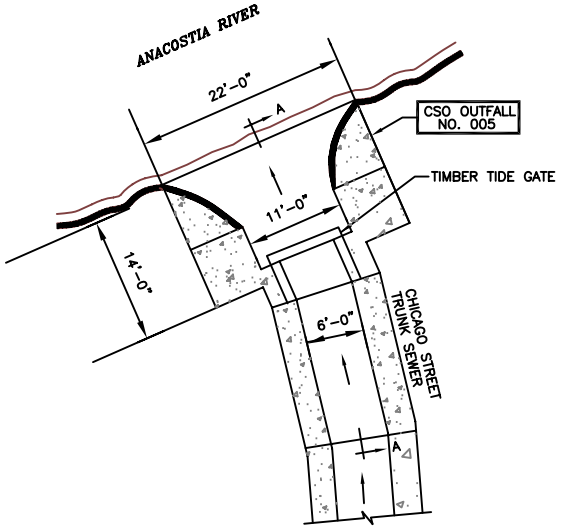
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-004



SITE PLAN

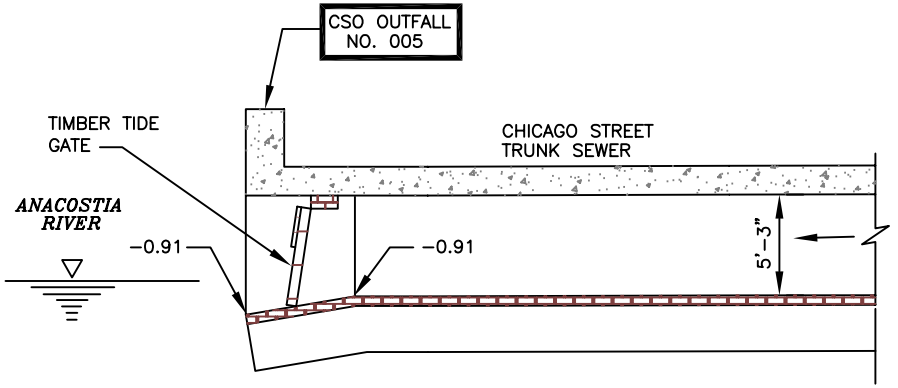
SCALE: 1"=200'

PHOTO



PLAN

N.T.S.



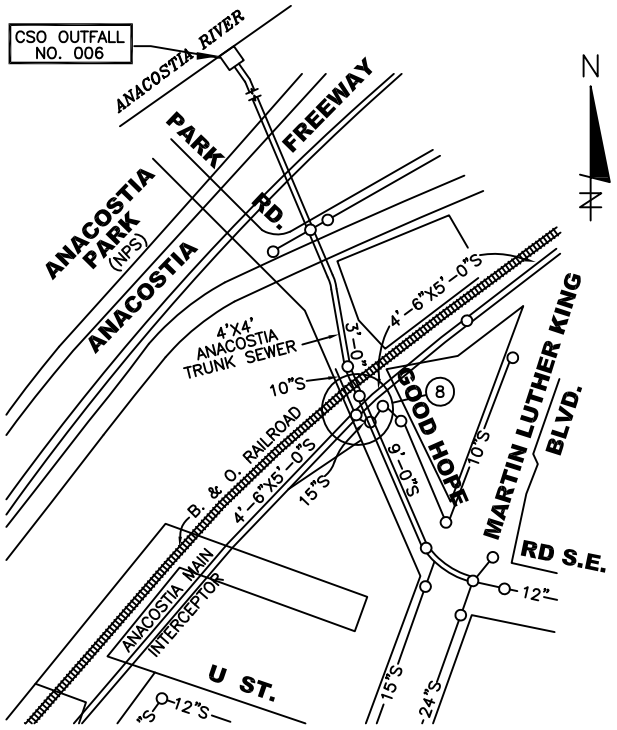
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

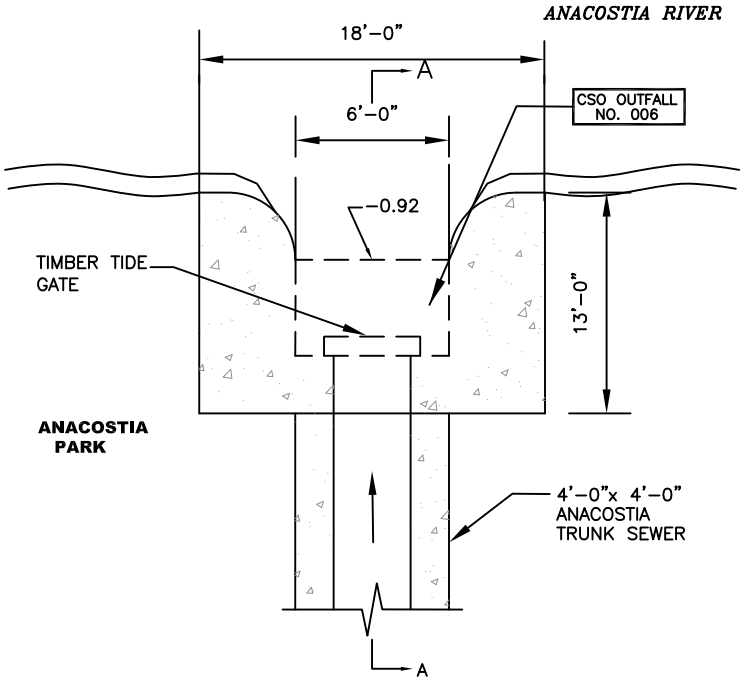
NPDES NO.
005

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-005



SITE PLAN

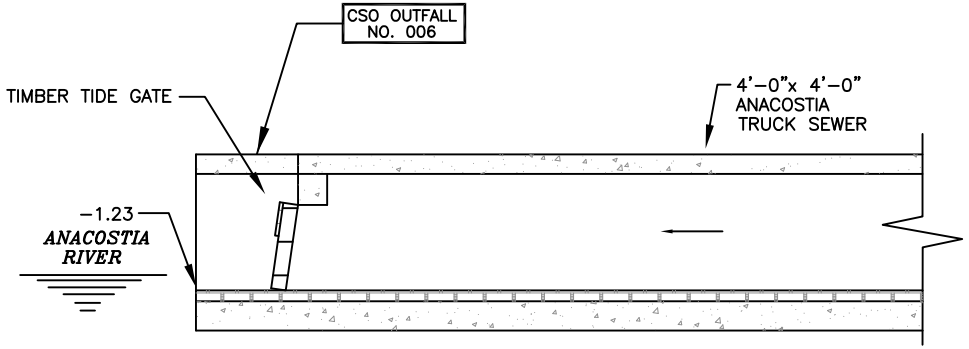
SCALE: 1"=200'



PLAN

N.T.S.

PHOTO



SECTION A-A

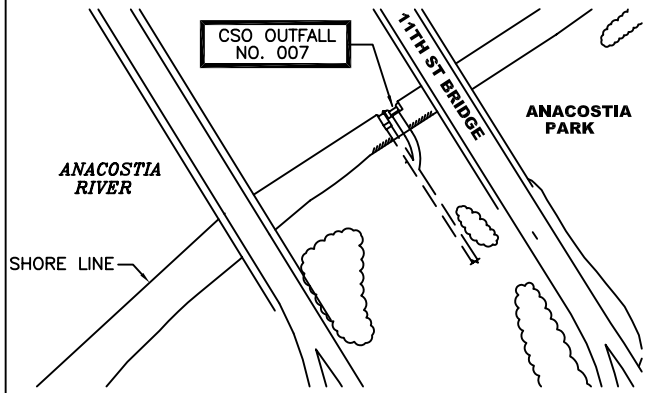
N.T.S.

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: FEBRUARY 2012
OUTFALL TYPE: CSO

THIS OUTFALL HAS BEEN CONVERTED IN TO A SEPARATE STORM SEWER OUTFALL.

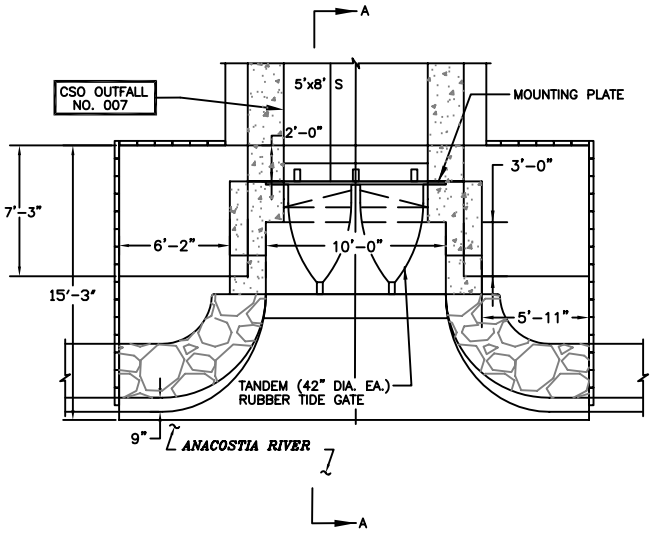
NPDES NO. 006

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-006



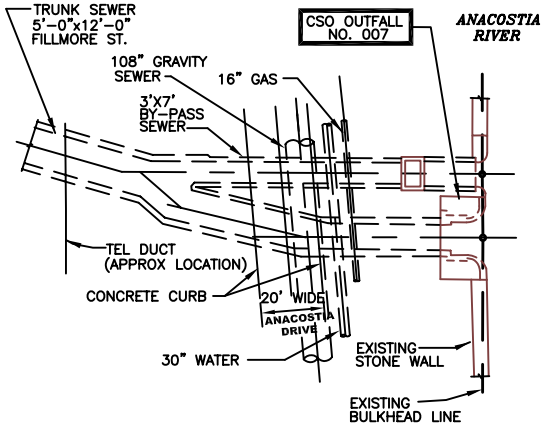
SITE PLAN

SCALE: 1"=50'



PLAN AT EL +5.75

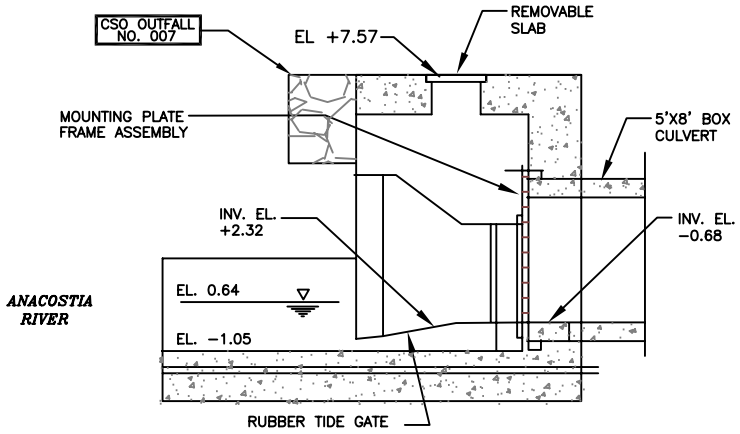
N.T.S.



DETAIL PLAN

N.T.S.

PHOTO



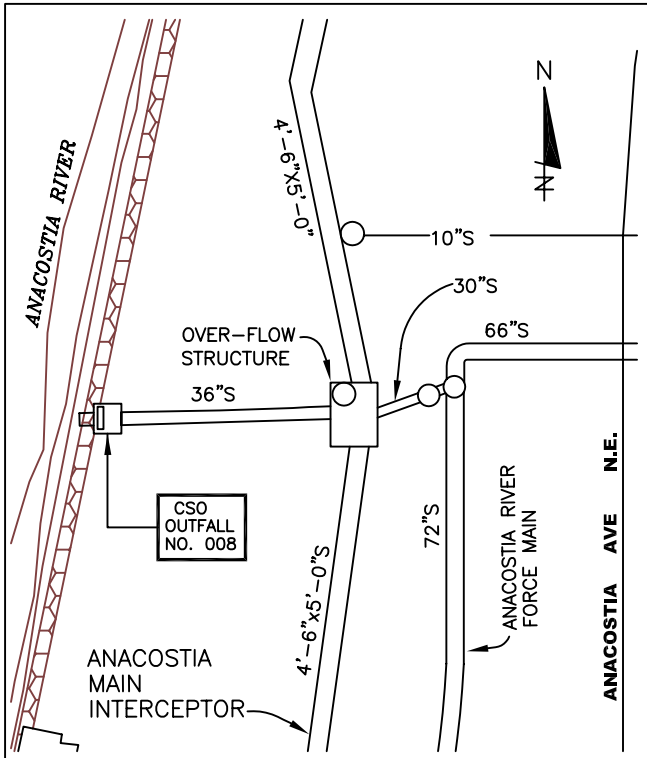
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

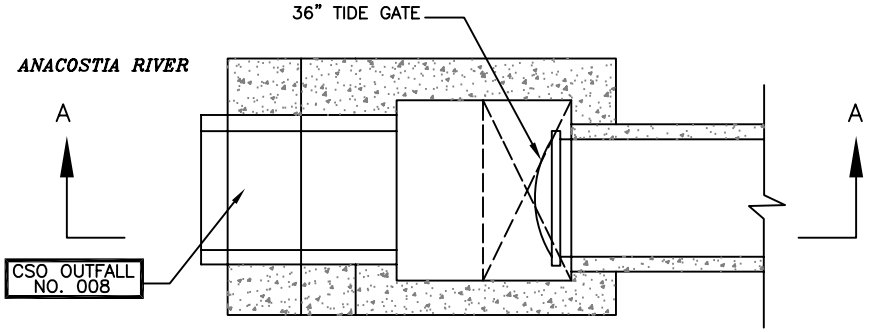
NPDES NO.
007

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-007



SITE PLAN

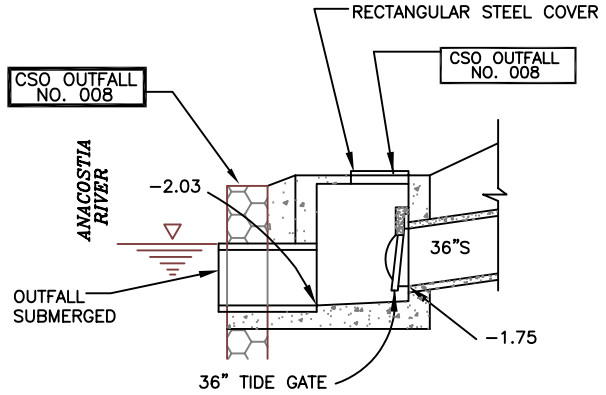
SCALE: 1"=60'



PLAN

SCALE: 1"=5'

PHOTO



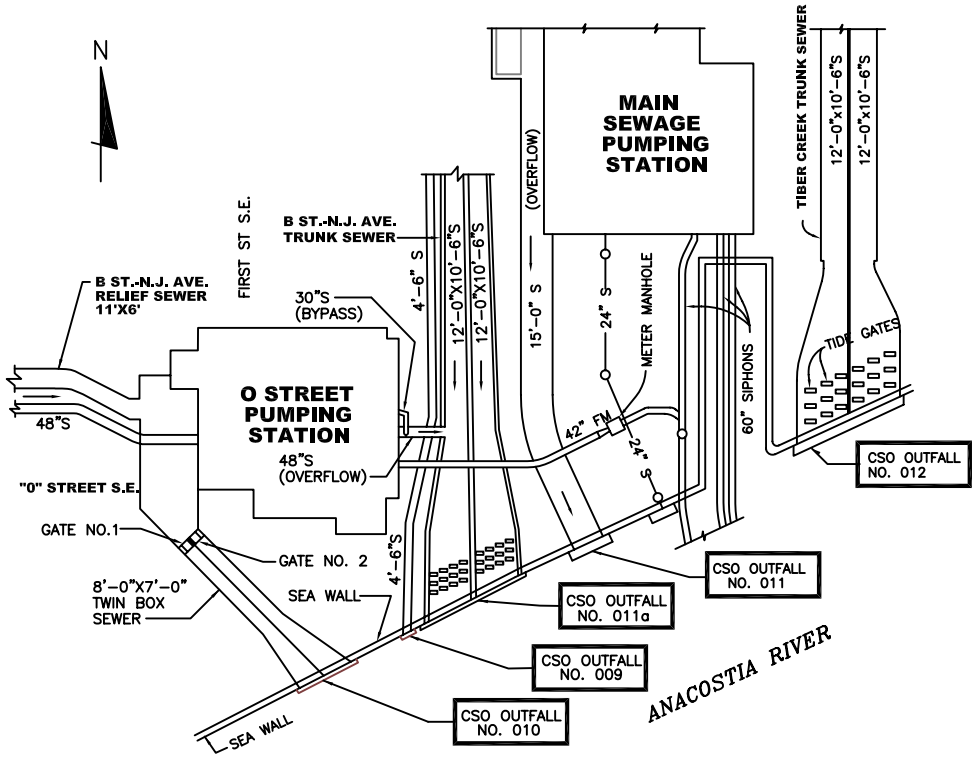
SECTION A-A

SCALE: 1"=10'

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: EMERGENCY RELIEF

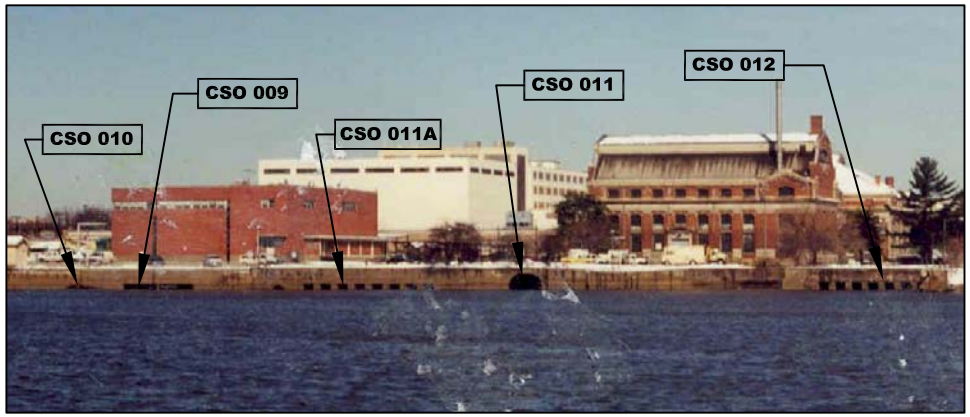
NPDES NO.
008

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-008



SITE PLAN

N.T.S.

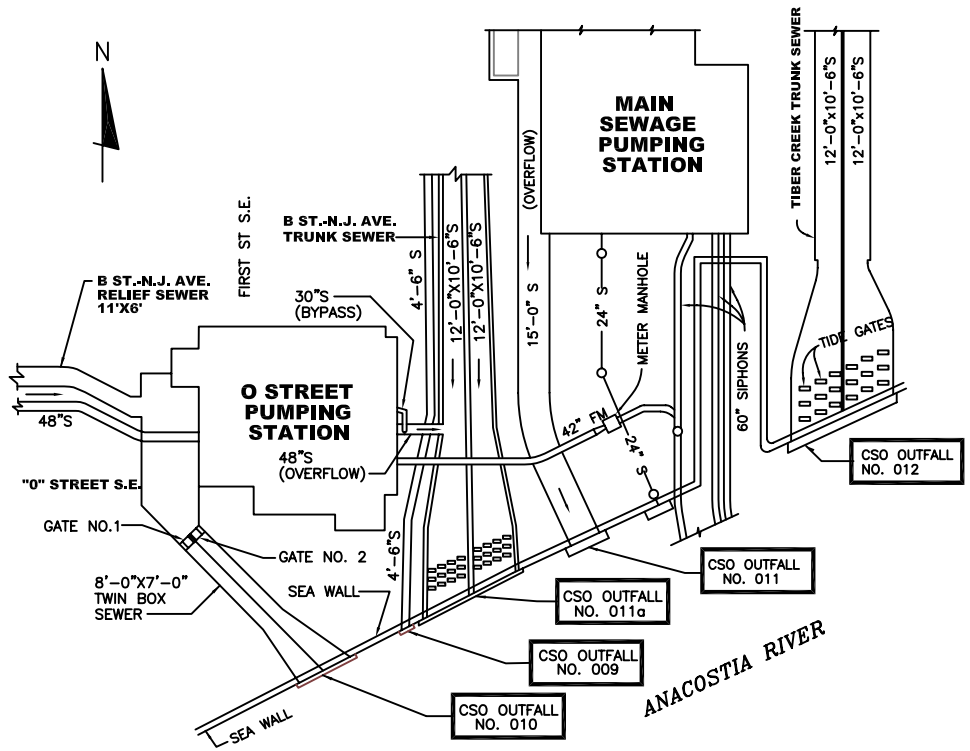


PHOTO

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

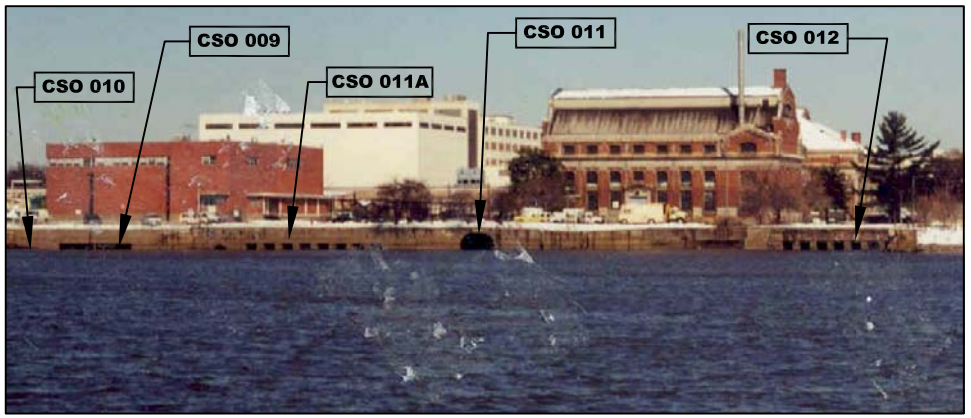
NPDES NO.
009

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-009



SITE PLAN

N.T.S.



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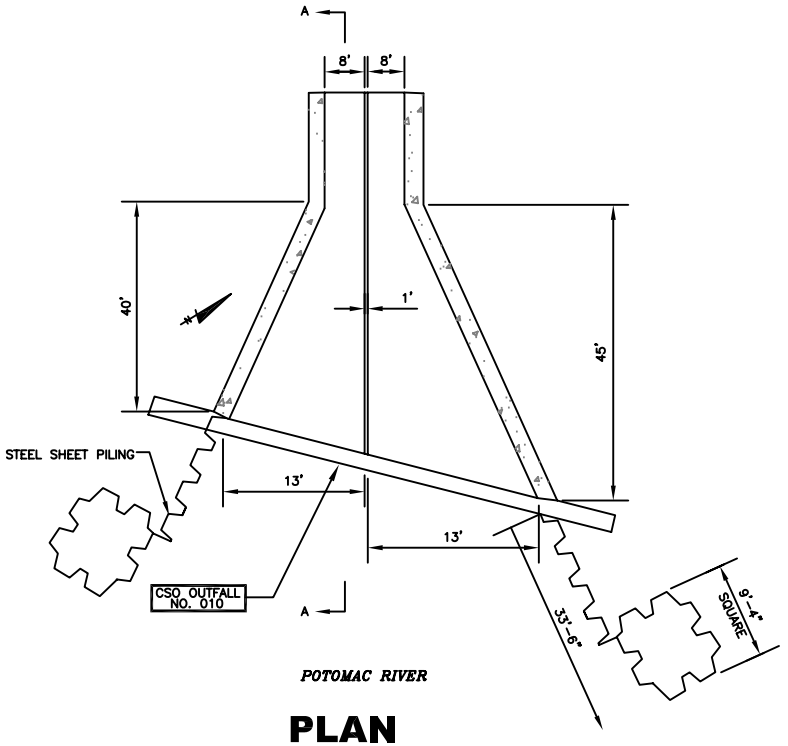
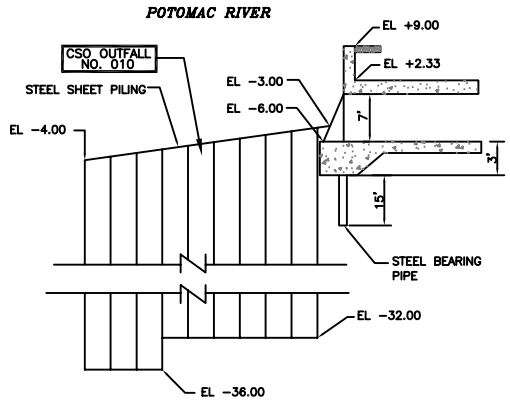


PLAN

N.T.S.



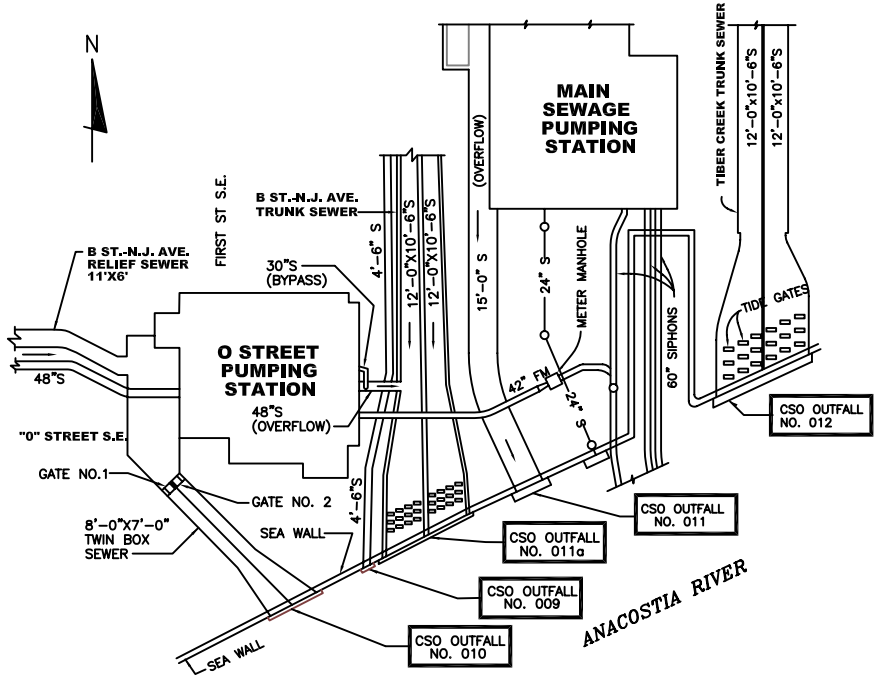
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO.
010

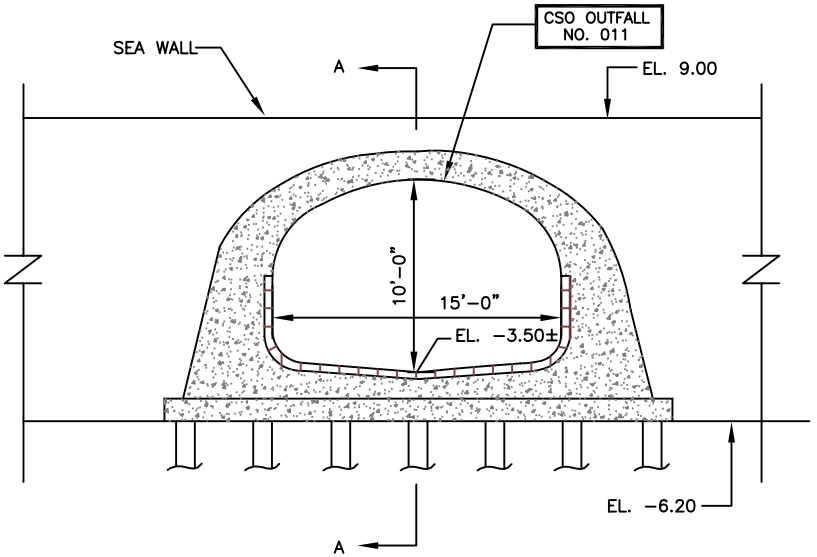
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-010



SITE PLAN

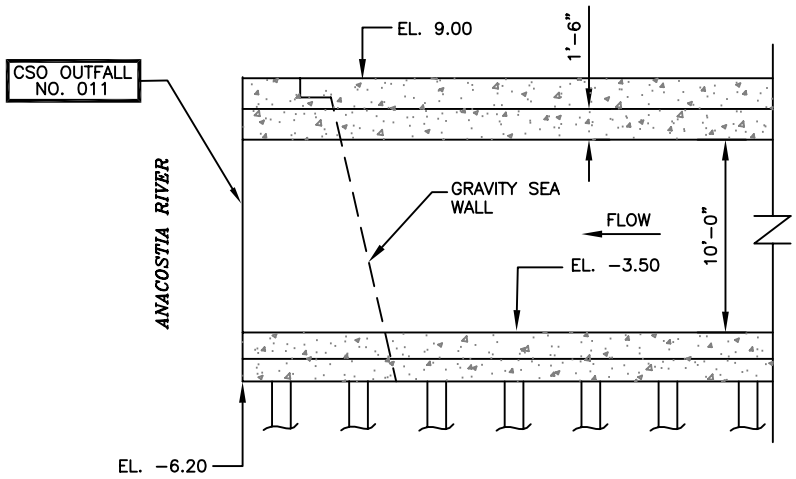
N.T.S.

PHOTO



ELEVATION

SCALE: 1"=10'



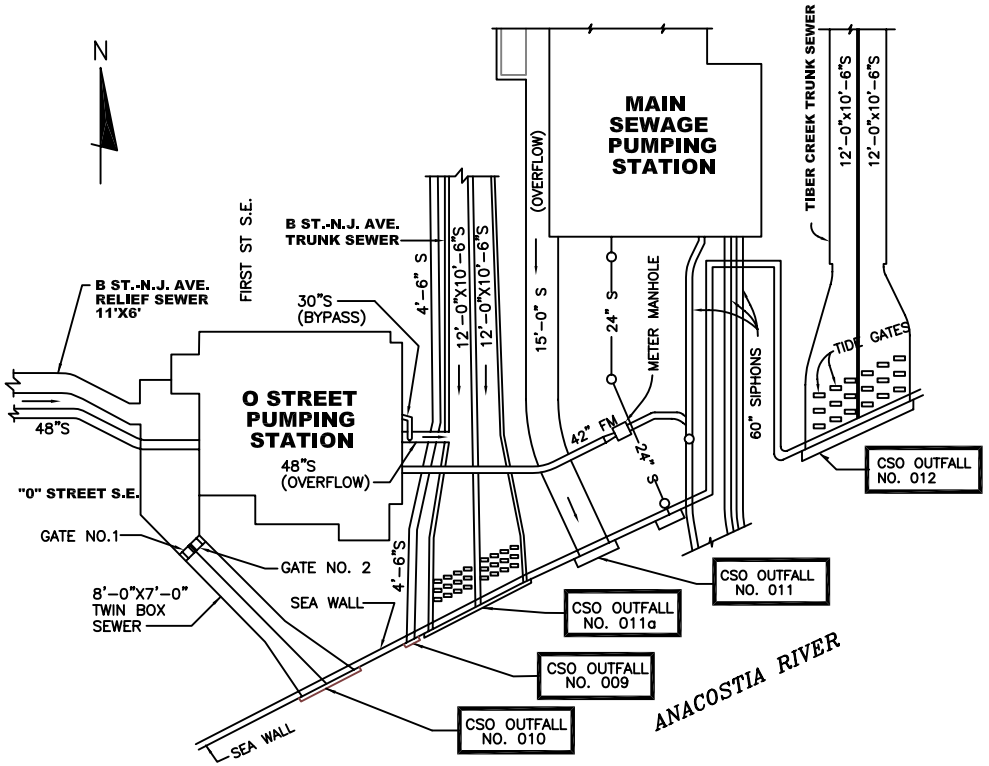
SECTION A-A

SCALE: 1"=10'

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

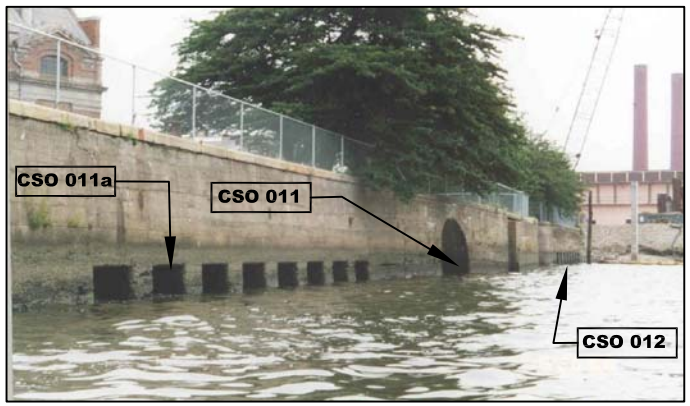
NPDES NO. 011

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-011

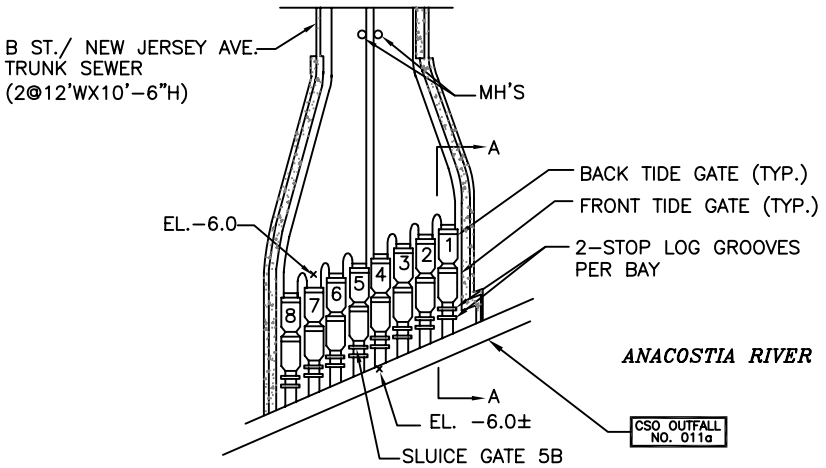


SITE PLAN

N.T.S.

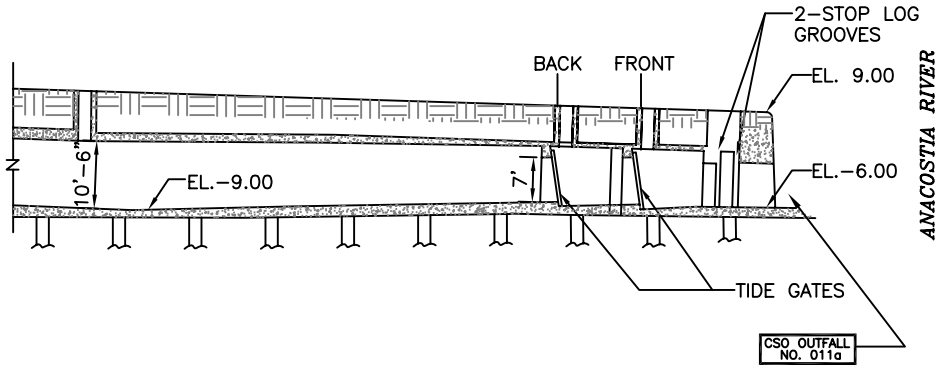


PHOTO



PLAN

SCALE: 1"=30'



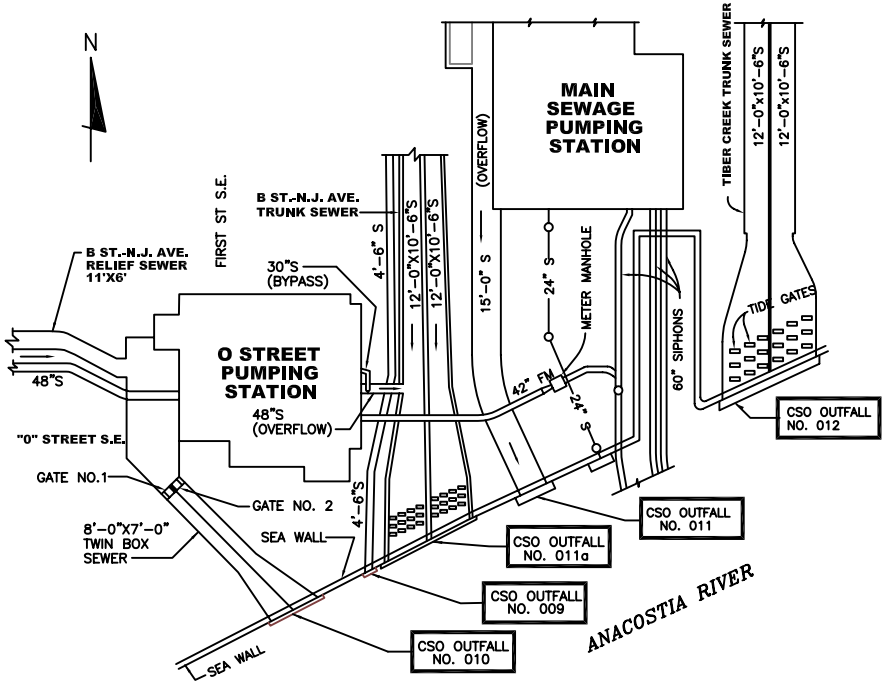
SECTION A-A

SCALE: 1"=30'

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

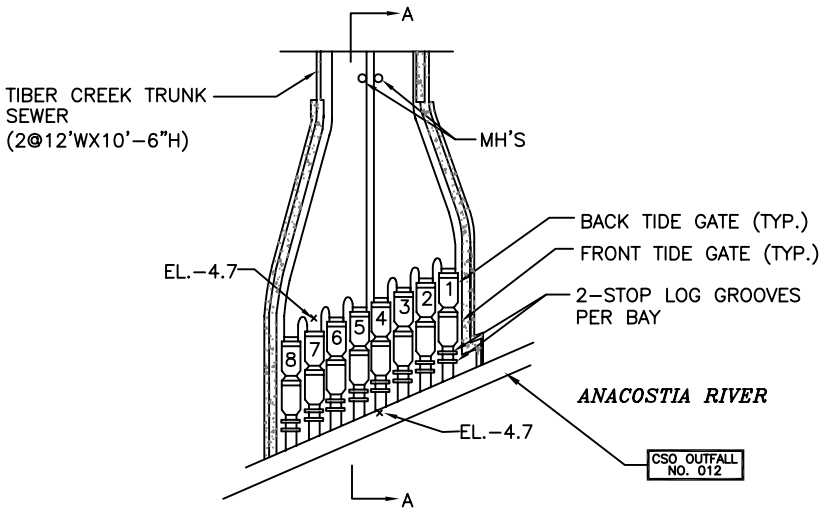
NPDES NO. 011a

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-011A



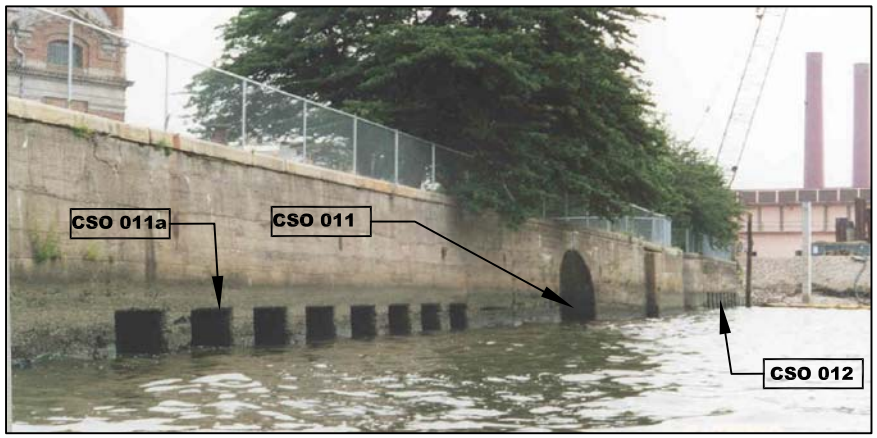
SITE PLAN

N.T.S.

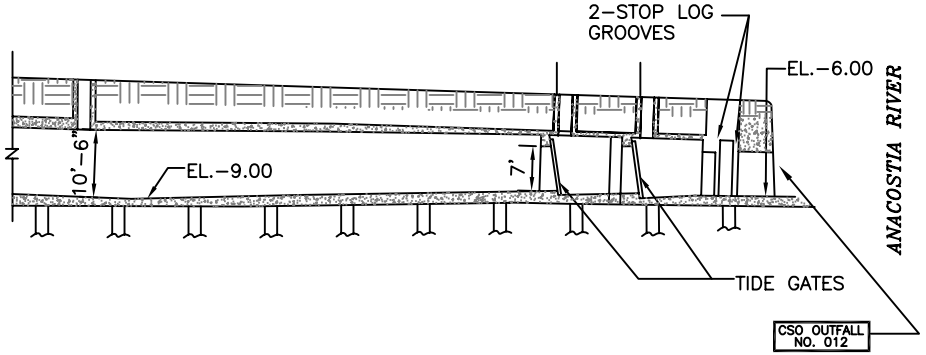


PLAN

SCALE: 1"=30'



PHOTO



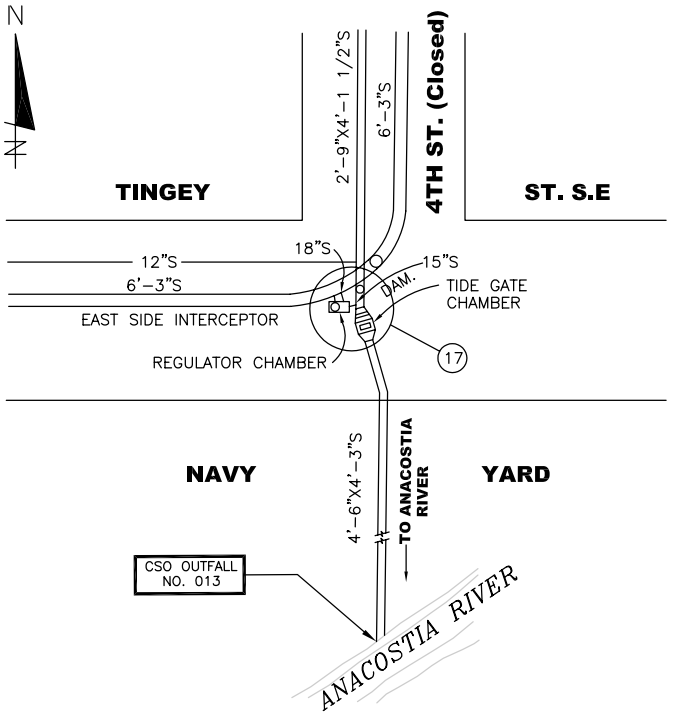
SECTION A-A

SCALE: 1"=30'

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO. 012

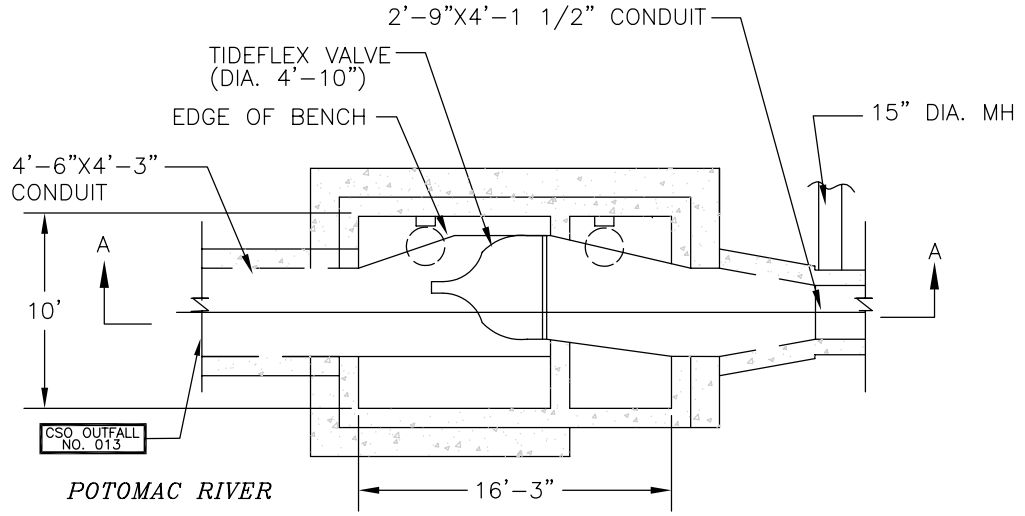
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-012 1:1



SITE PLAN

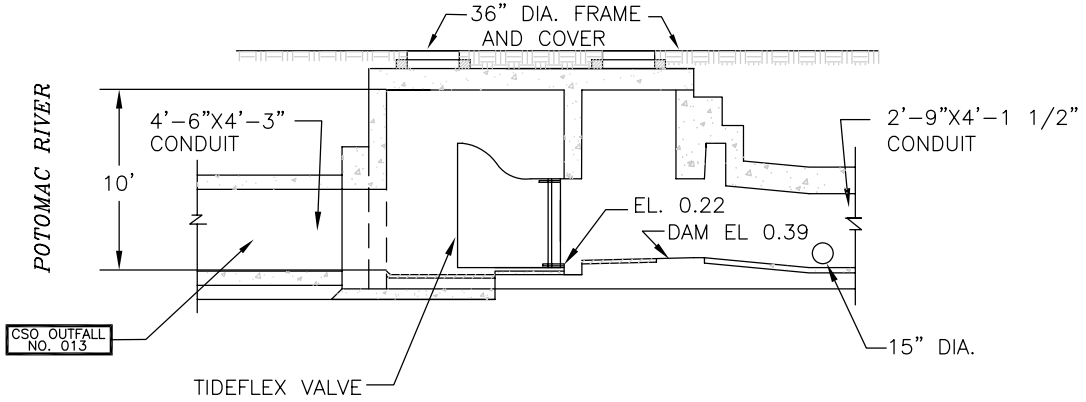
SCALE: 1"=100'

PHOTO



PLAN

N.T.S.



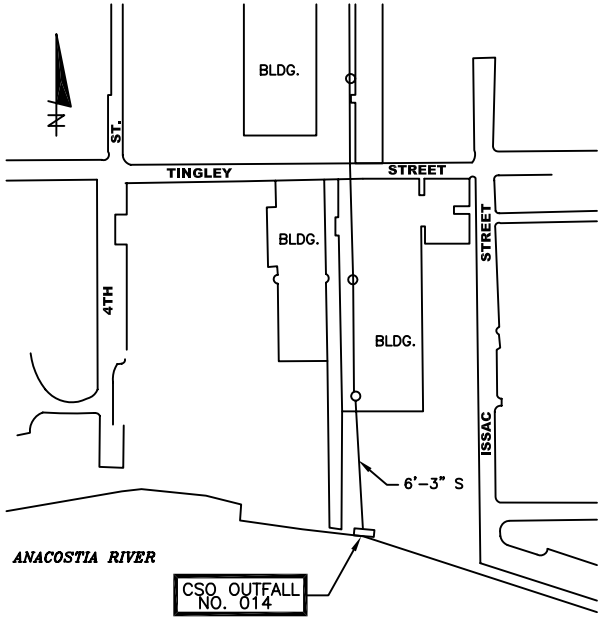
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

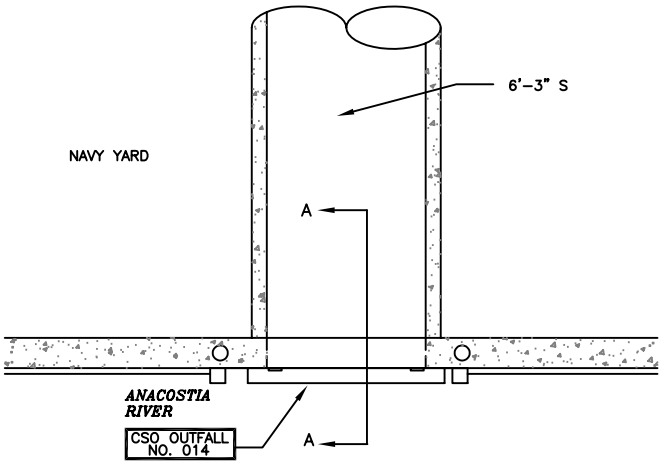
NPDES NO.
013

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALL\NPDES-013



PLAN

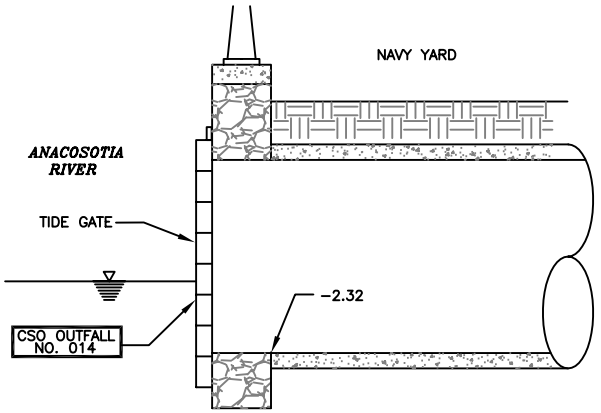
SCALE: 1"=100'



PLAN

N.T.S.

PHOTO



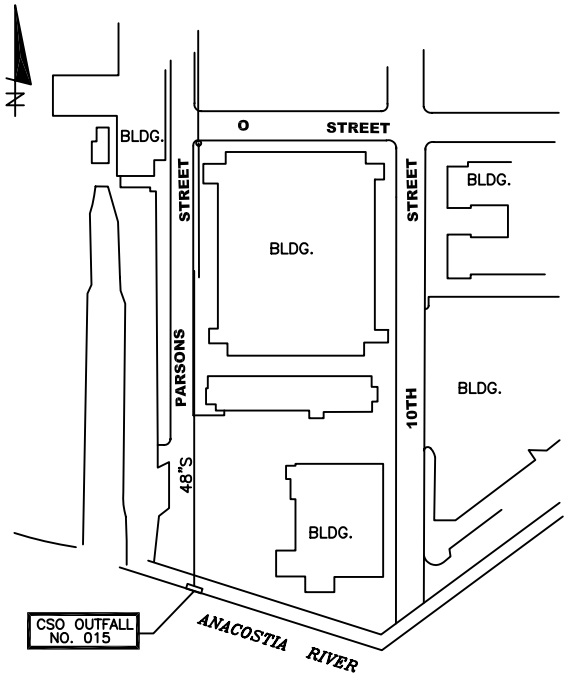
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO.
014

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALL\NPDES-014



SITE PLAN

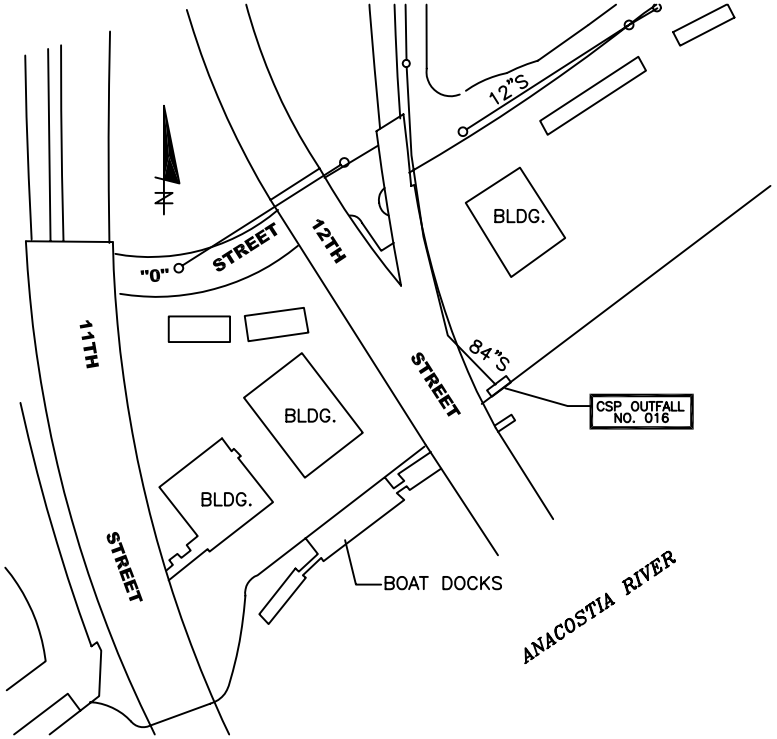
N.T.S.

PHOTO

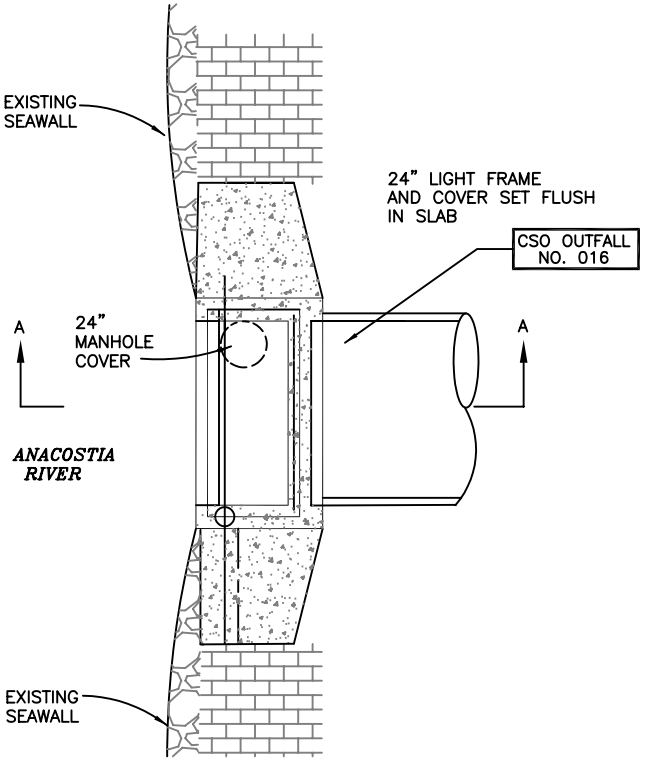
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO.
015

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALL\NPDES-015

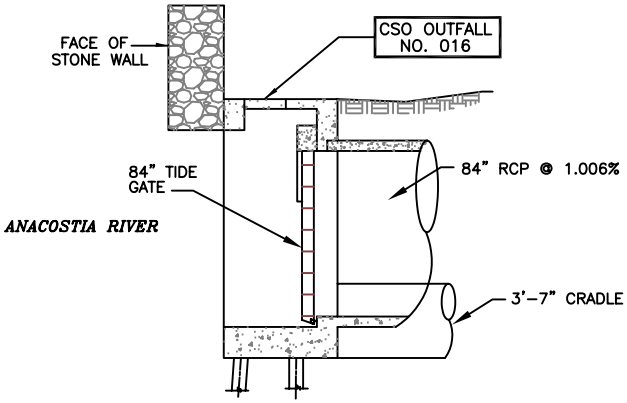


SITE PLAN
N.T.S.



PLAN
N.T.S.

PHOTO

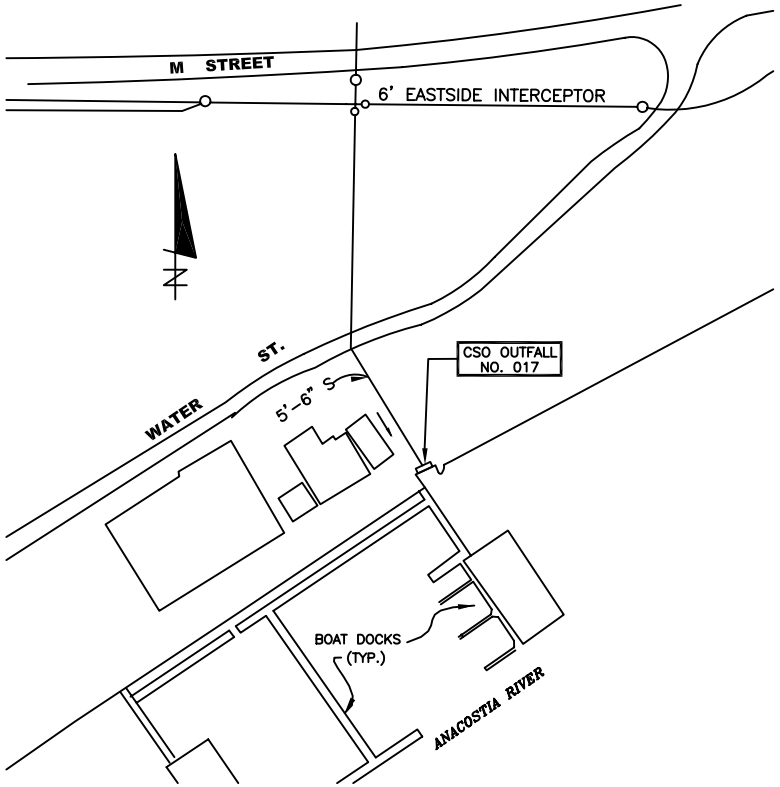


SECTION A-A
N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

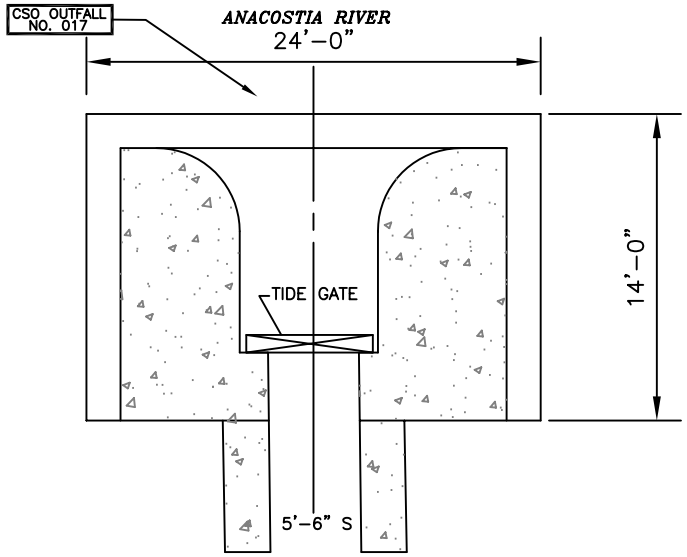
NPDES NO.
016

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALL\NPDES-016

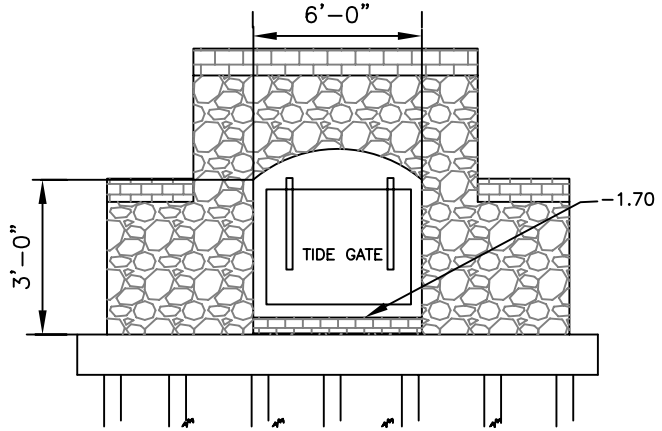


SITE PLAN
N.T.S.

PHOTO



PLAN
N.T.S.

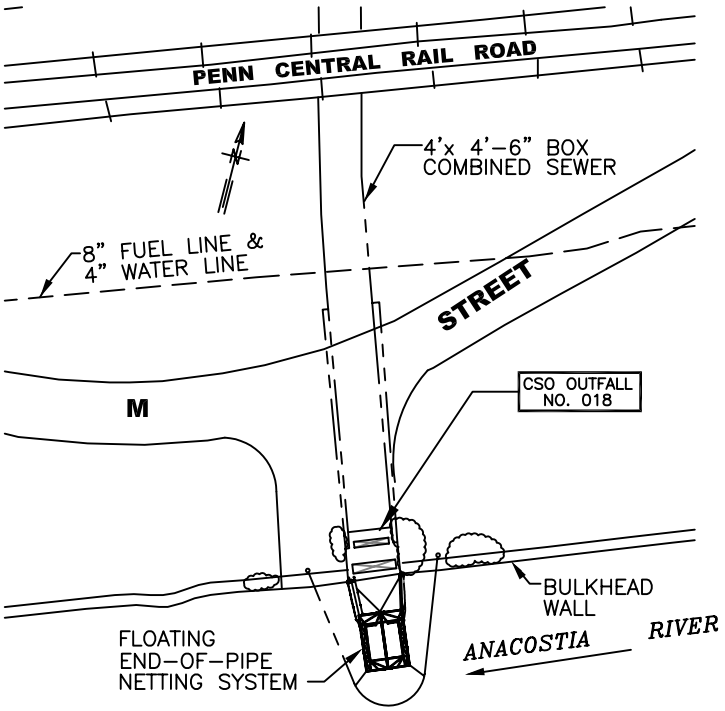


FRONT VIEW
N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO.
017

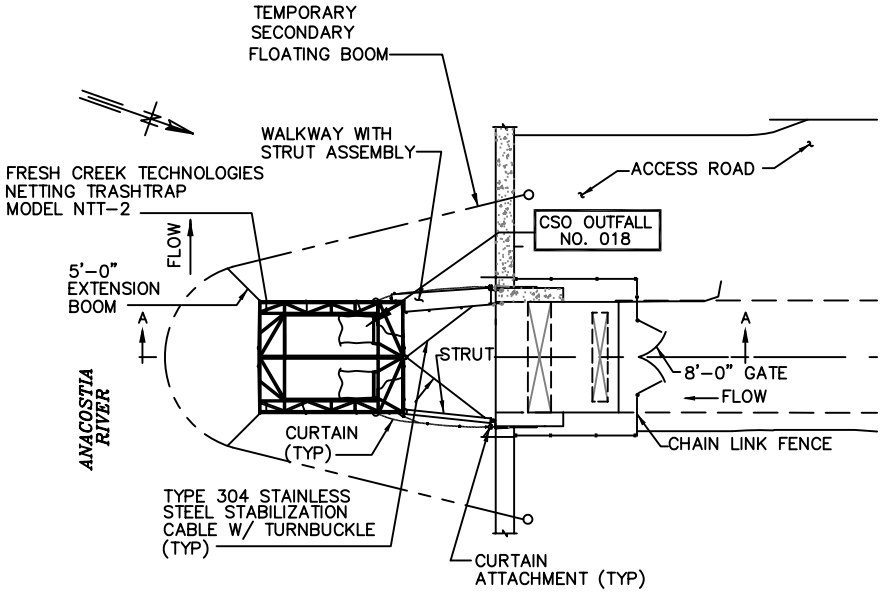
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-017



SITE PLAN

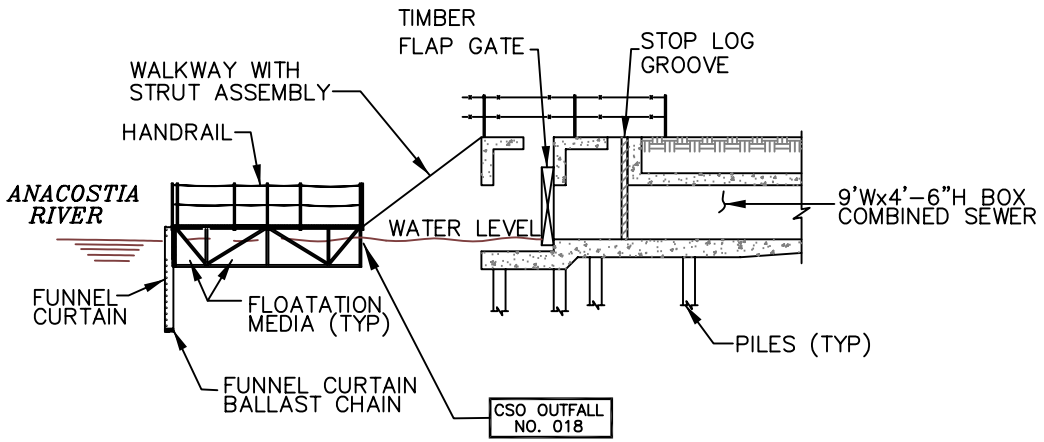
SCALE: 1"=50'

PHOTO



PLAN

N.T.S.



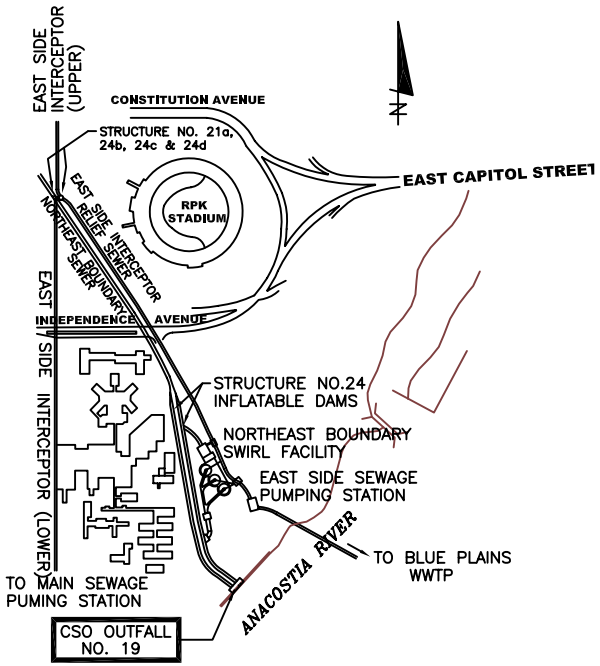
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

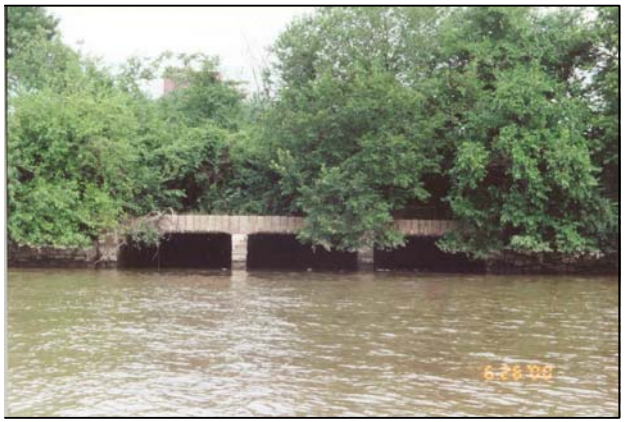
NPDES NO.
018

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-018



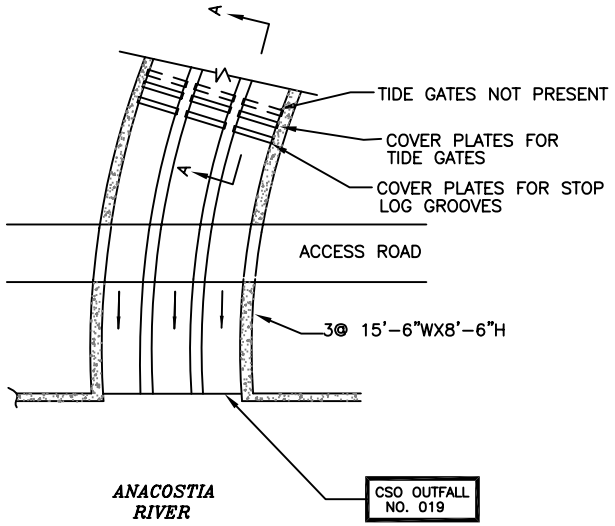
SITE PLAN

N.T.S.



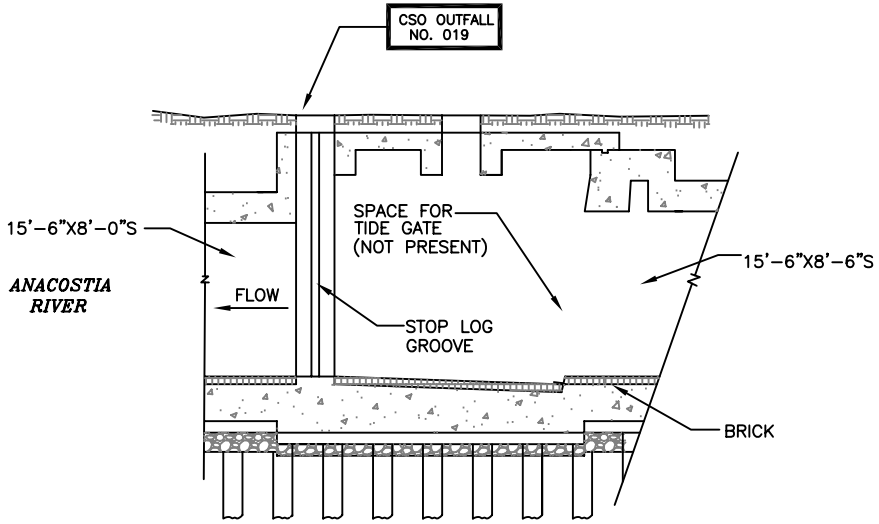
PHOTO

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO



PLAN

N.T.S.

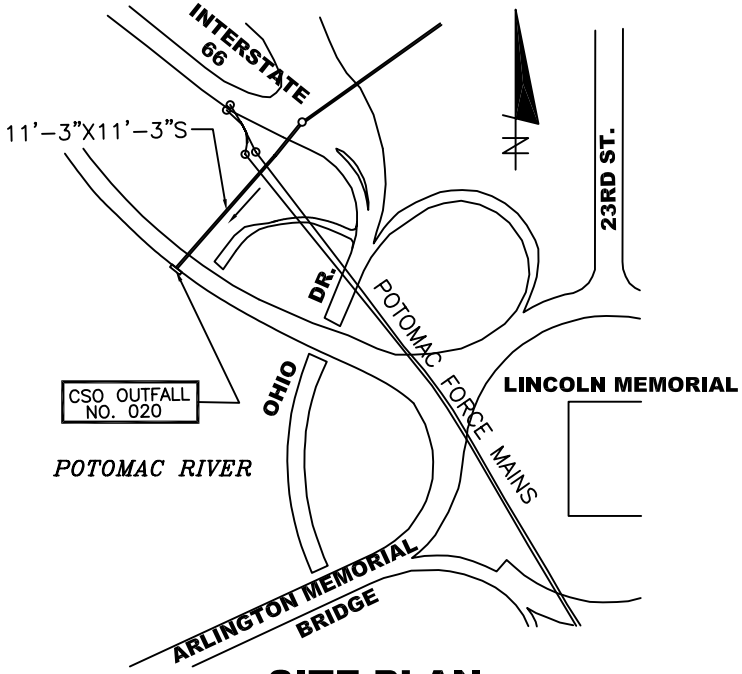


SECTION A-A

N.T.S.

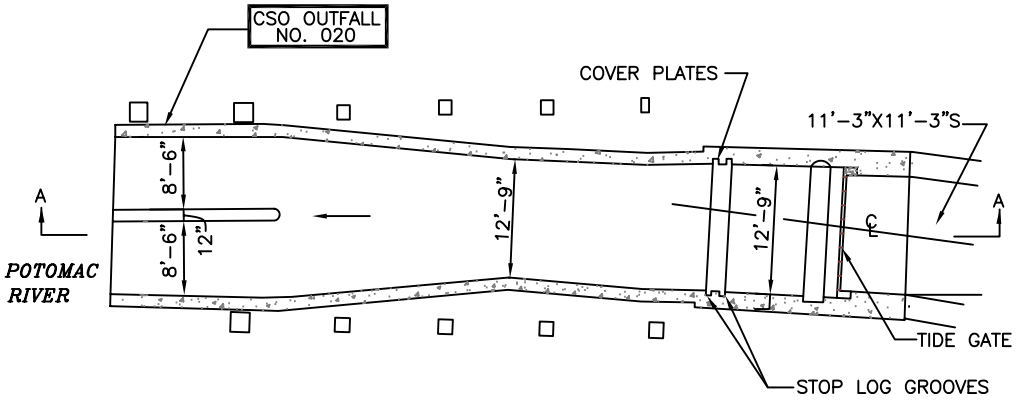
NPDES NO. 019

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-019

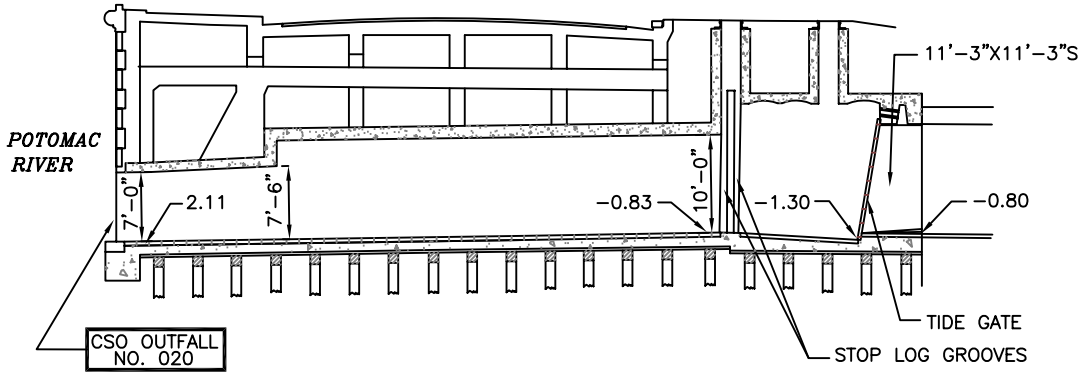


SITE PLAN
N.T.S.

PHOTO



PLAN
N.T.S.

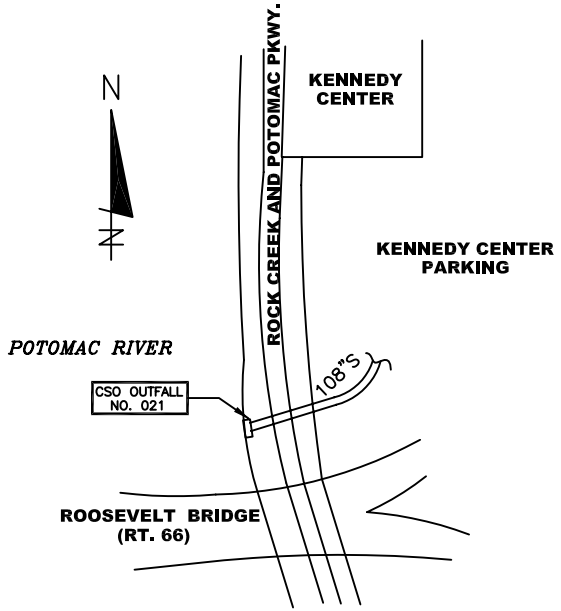


SECTION A-A
N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO. 020

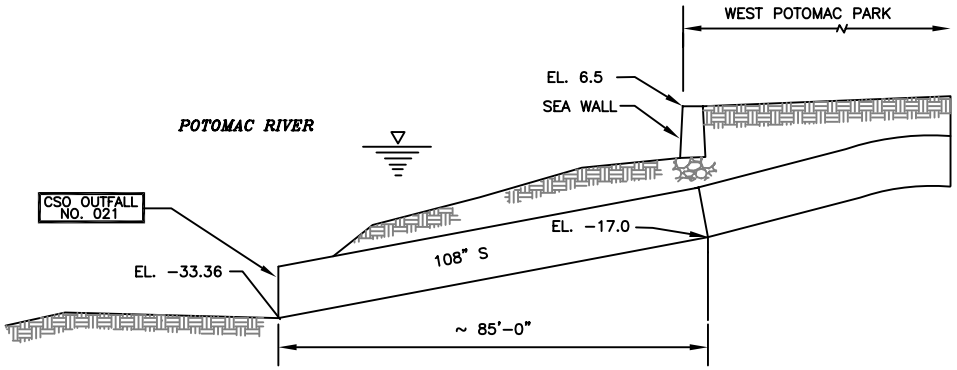
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-020



SITE PLAN

N.T.S.

PHOTO



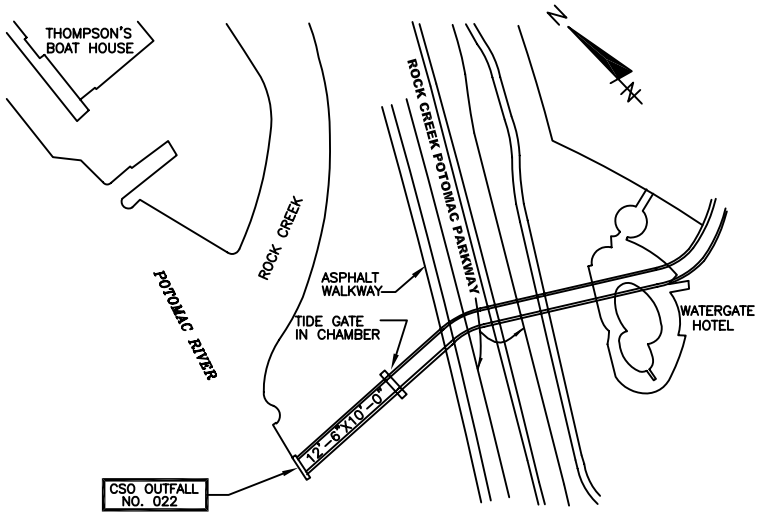
PROFILE

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

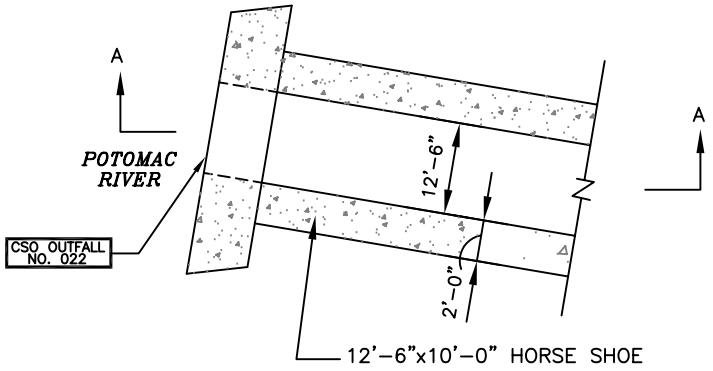
NPDES NO. 021

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-021

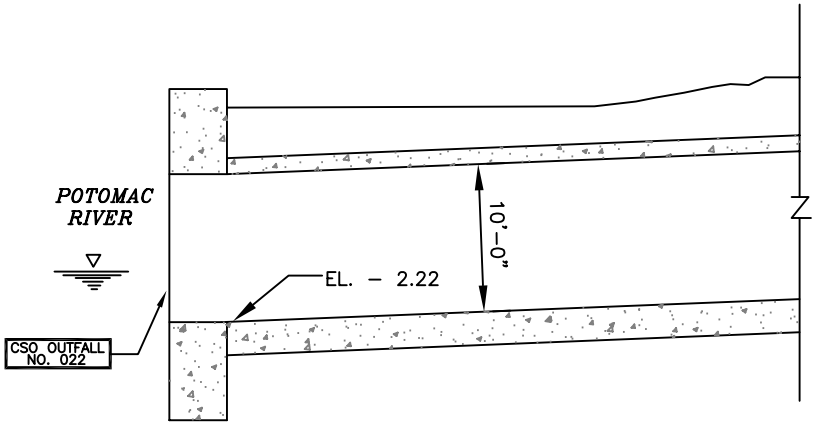


SITE PLAN
N.T.S.

PHOTO



PLAN
N.T.S.

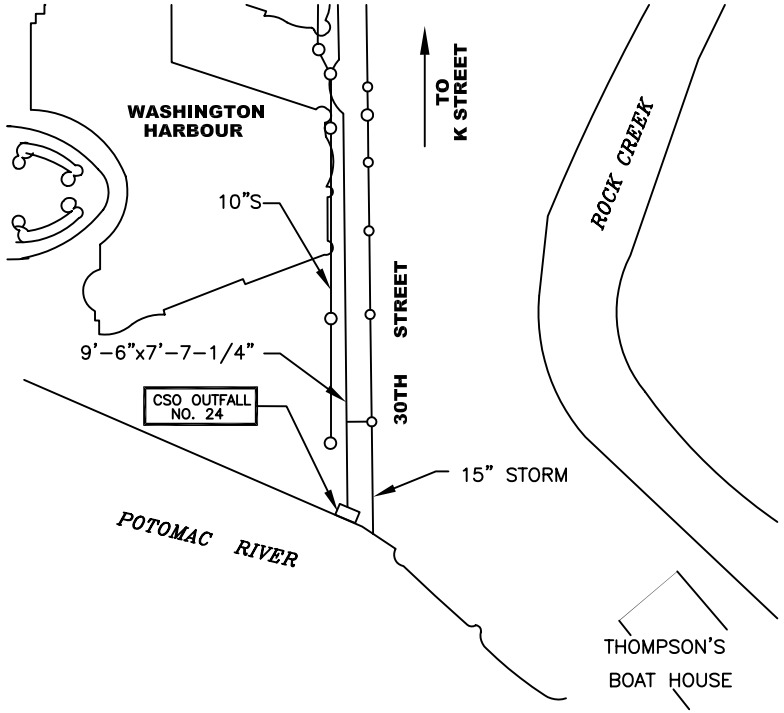


SECTION A-A
N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

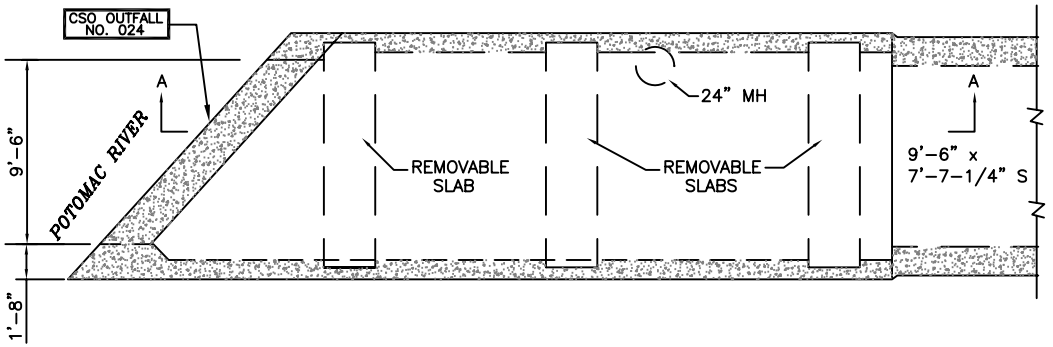
NPDES NO.
022

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-021



SITE PLAN

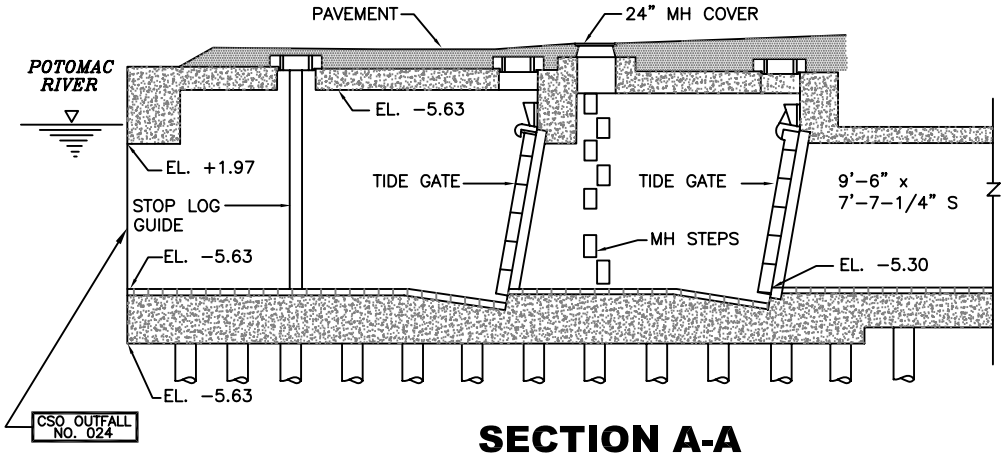
SCALE: 1"=300'



PLAN

SCALE: 1"=10'

PHOTO



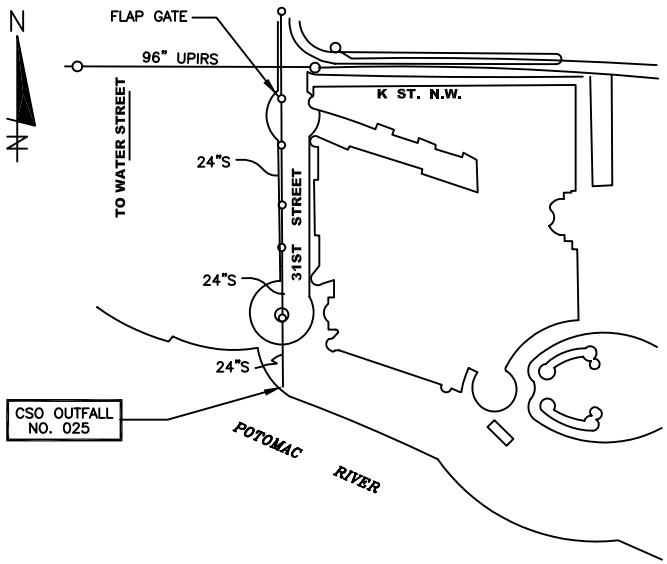
SECTION A-A

SCALE: 1"=10'

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO. 024

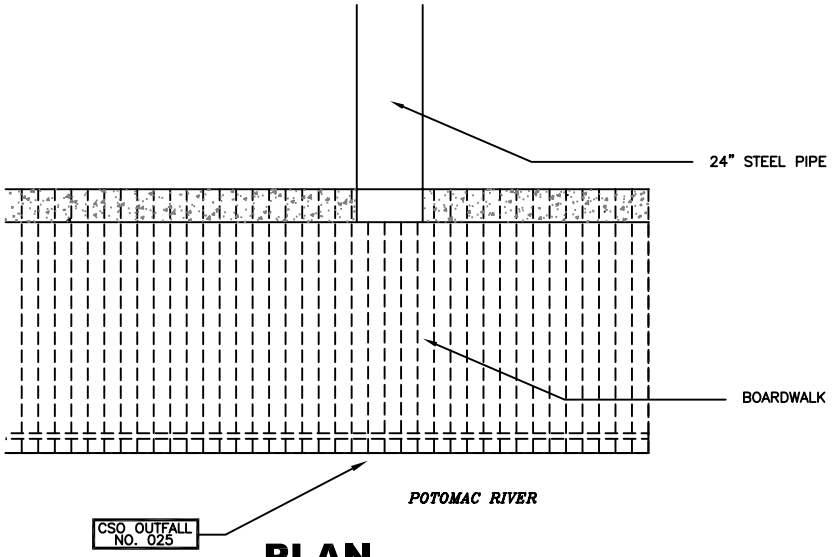
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-024



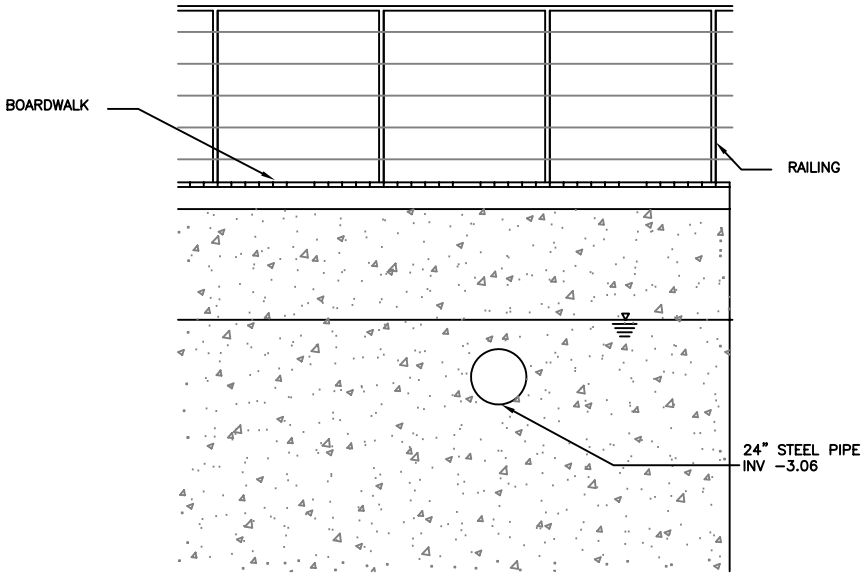
SITE PLAN
SCALE: 1"=200'

PHOTO

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO



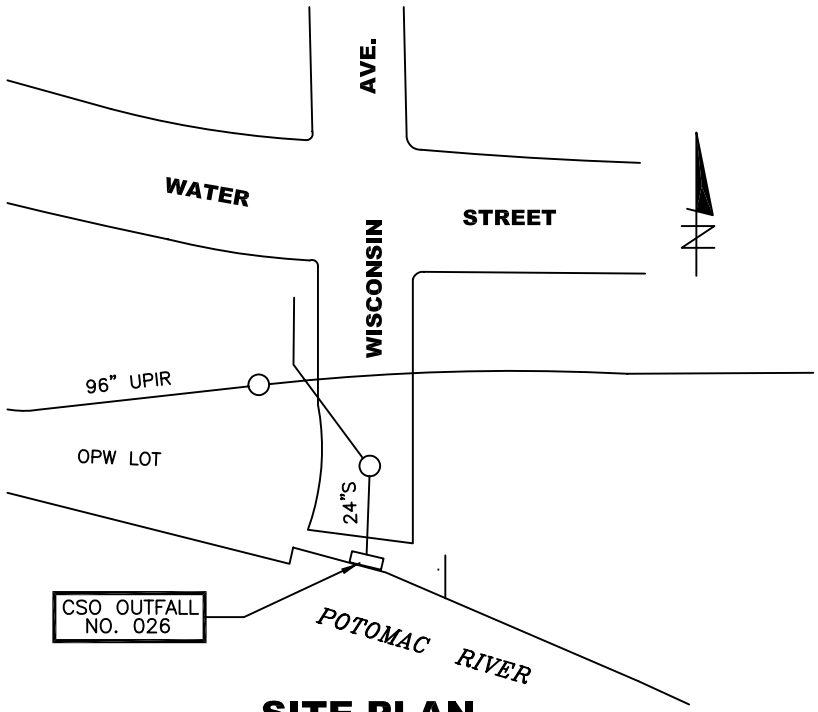
PLAN
N.T.S.



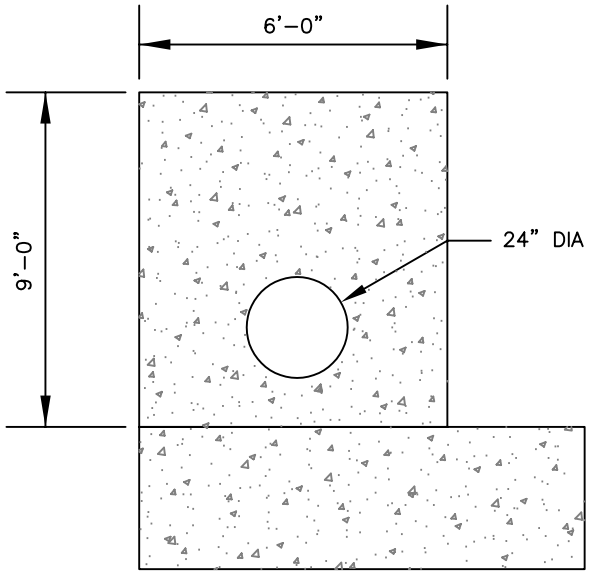
FRONT VIEW
N.T.S.

NPDES NO.
025

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-025



SITE PLAN
SCALE: 1"=200'



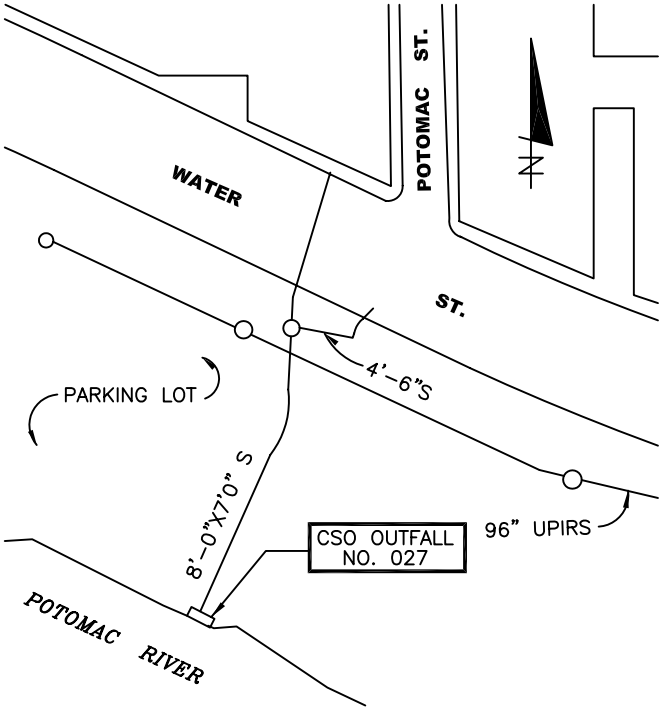
FRONT VIEW
N.T.S.

PHOTO

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO.
026

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-026

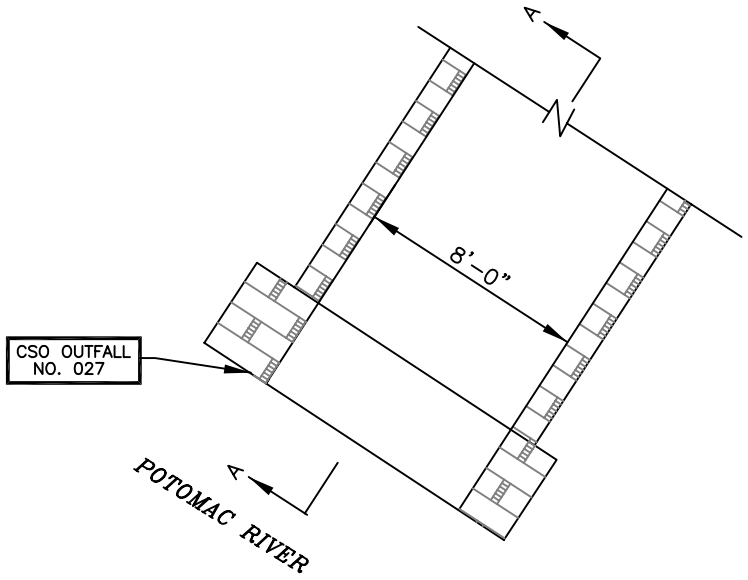


SITE PLAN

SCALE: 1"=200'

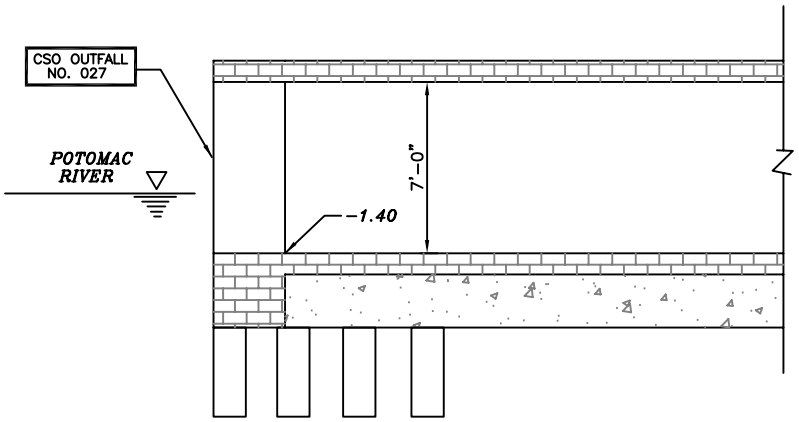
PHOTO

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO



PLAN

N.T.S.

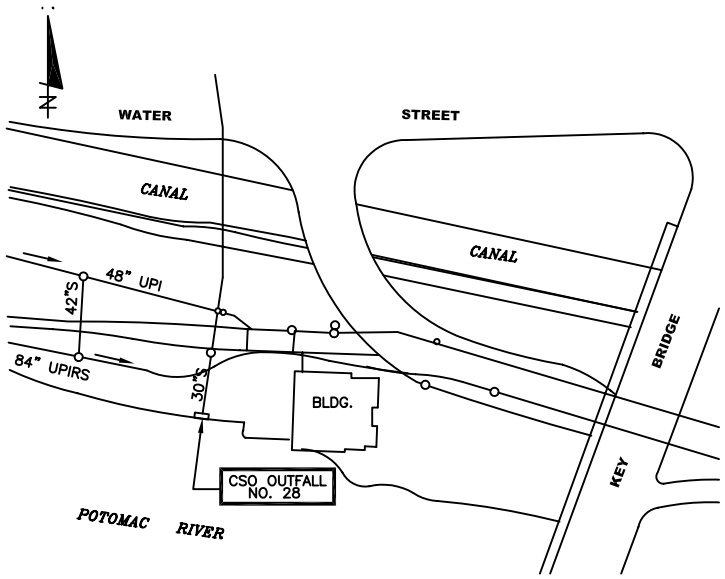


SECTION A-A

N.T.S.

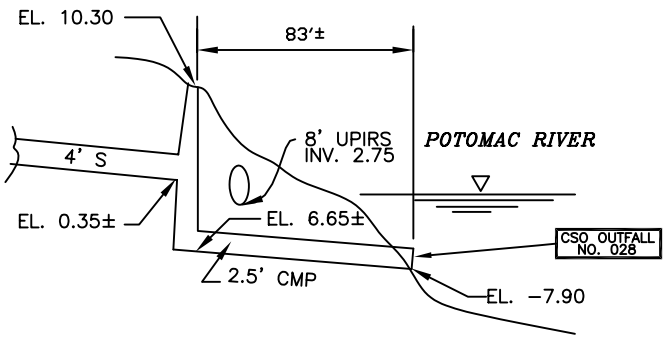
NPDES NO. 027

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-027



SITE PLAN

SCALE: 1"=100'



SECTION

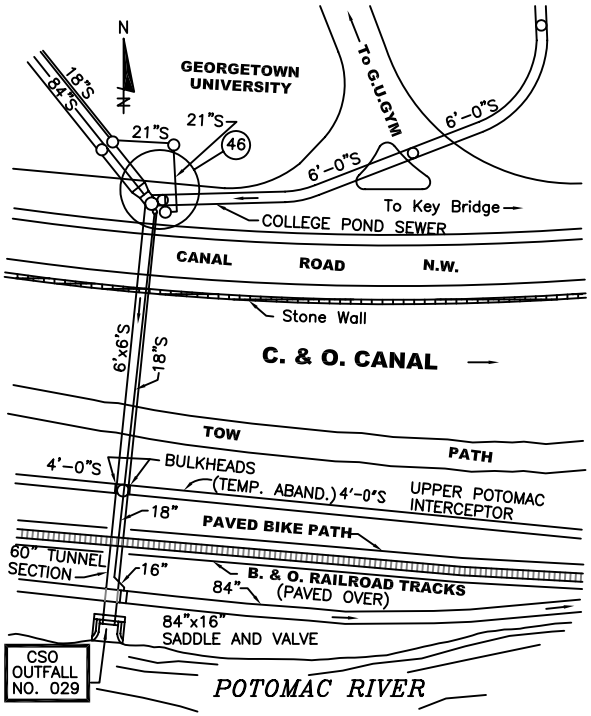
N.T.S.

PHOTO

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO.
028

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-028

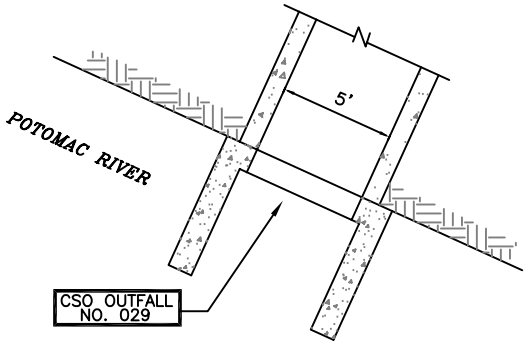


SITE PLAN

SCALE: 1"=100'

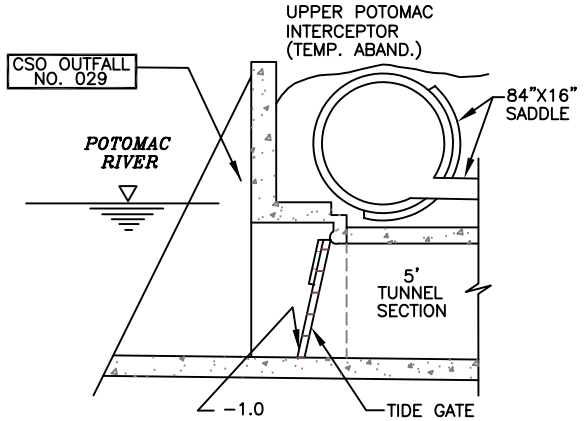
PHOTO

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO



PLAN

N.T.S.

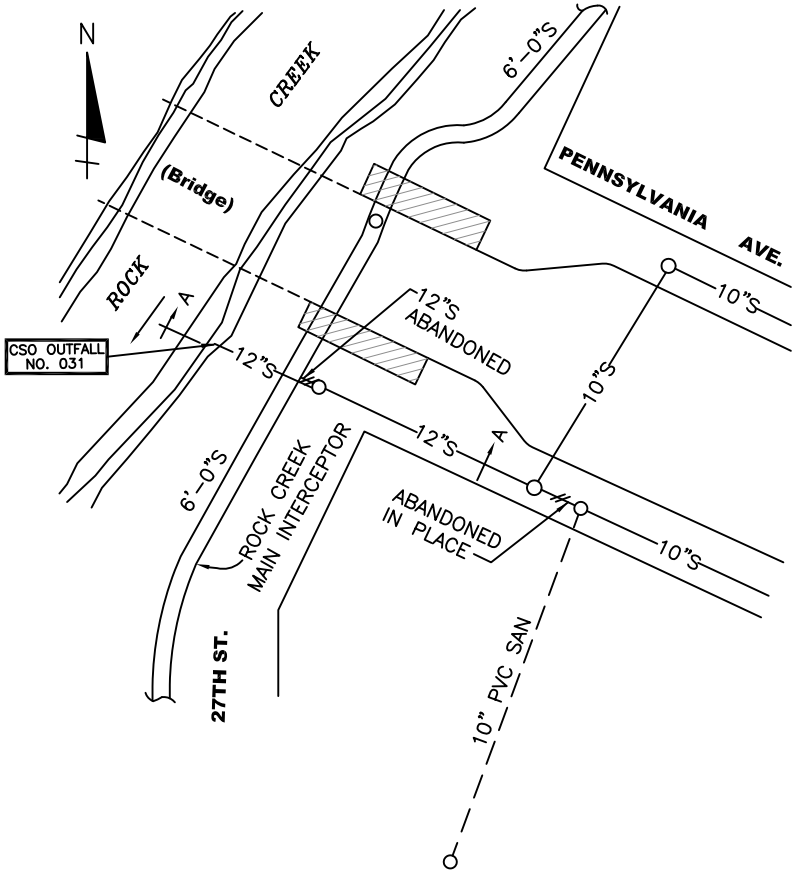


SECTION

N.T.S.

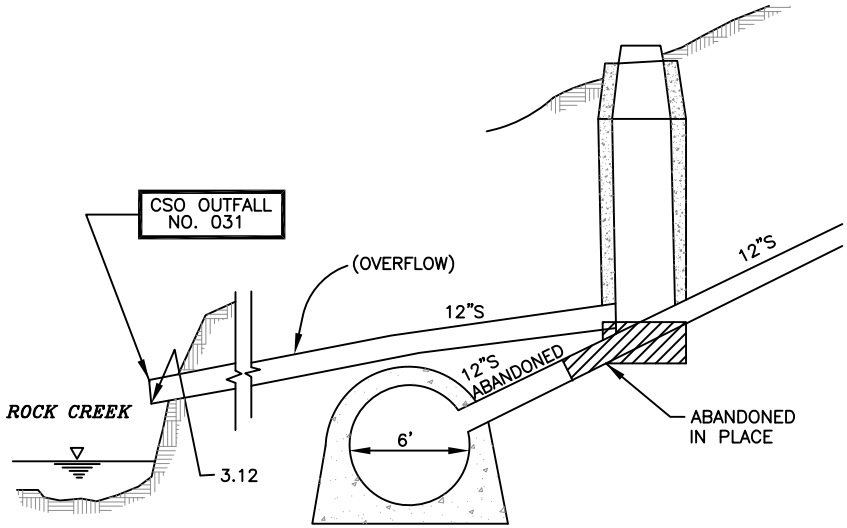
NPDES NO. 029

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-029



SITE PLAN

SCALE: 1"=80'



SECTION A-A

N.T.S.

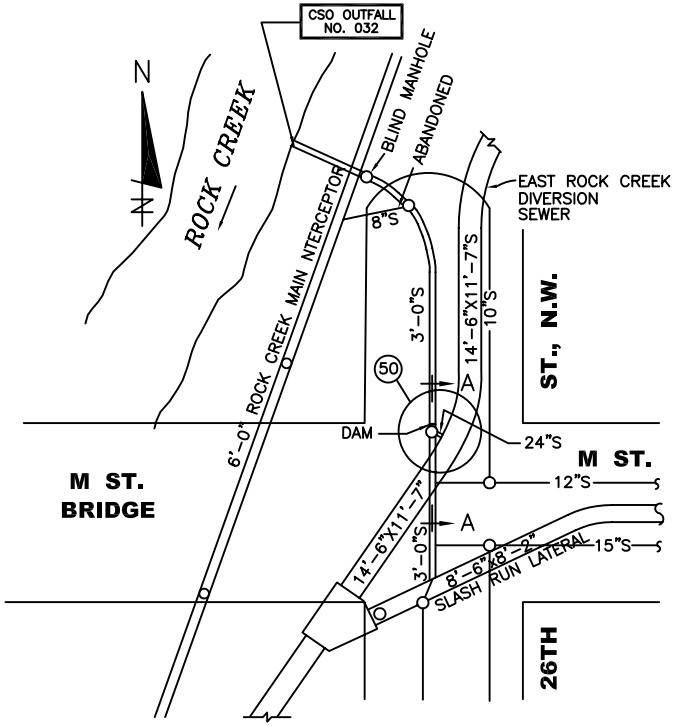
PHOTO

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: FEBRUARY 2012
OUTFALL TYPE: CSO

THIS OUTFALL HAS BEEN CONVERTED IN TO A SEPARATE STORM SEWER OUTFALL.

NPDES NO. 031

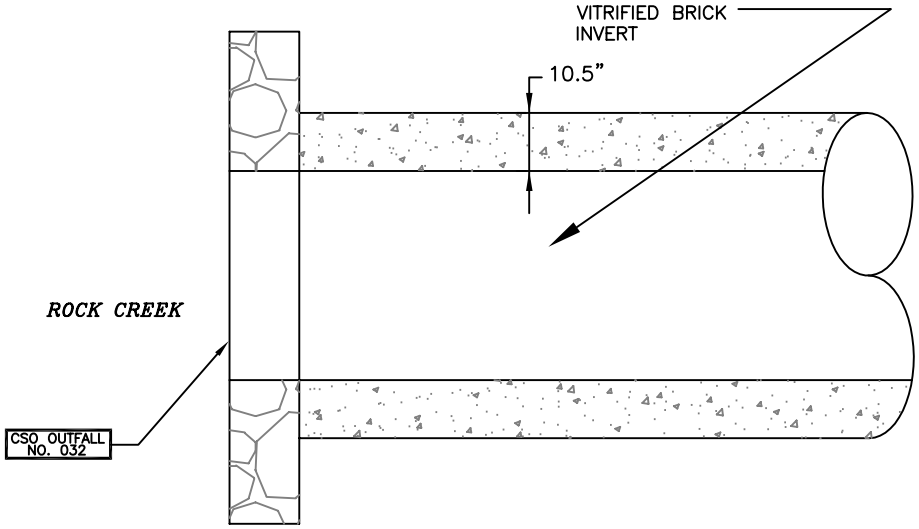
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALL\NPDES-031



SITE PLAN

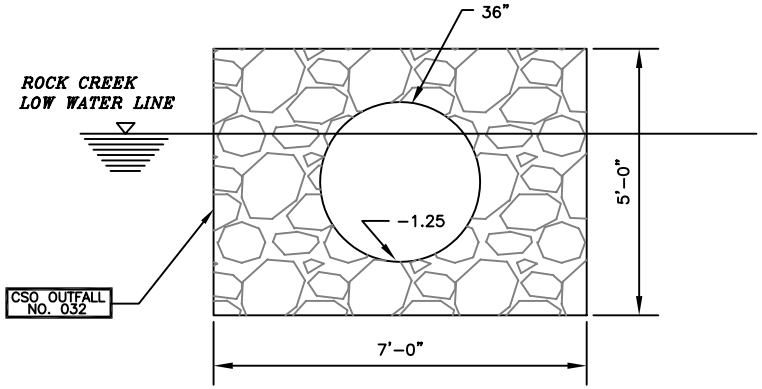
SCALE: 1"=100'

PHOTO



PLAN

N.T.S.



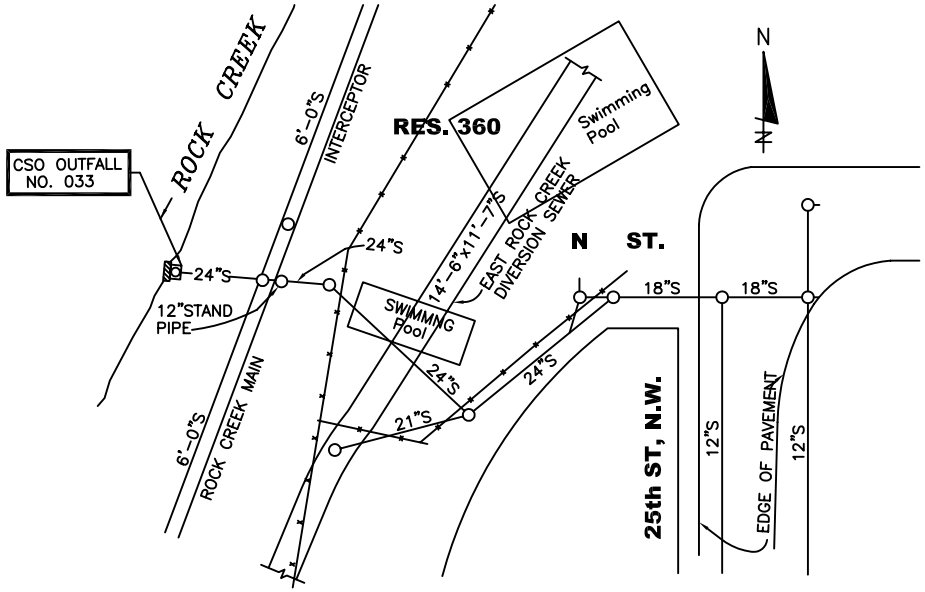
FRONT VIEW

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

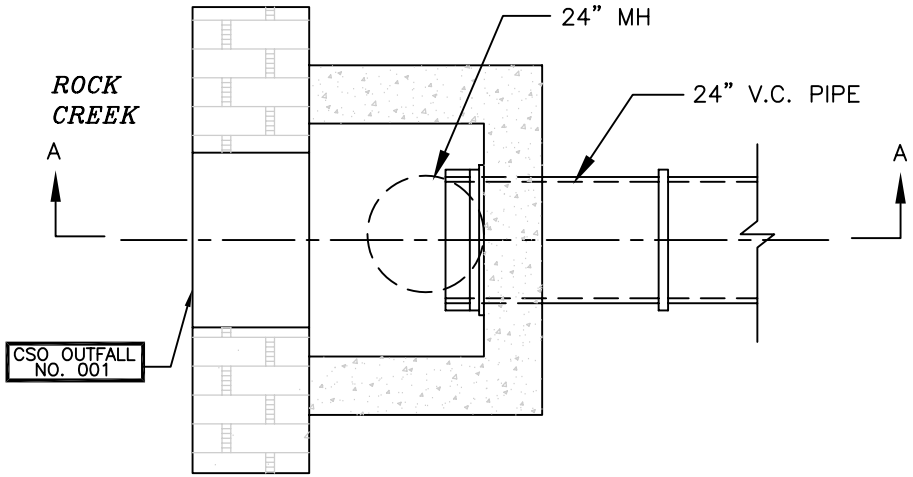
NPDES NO. 032

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALL\NPDES-032



SITE PLAN

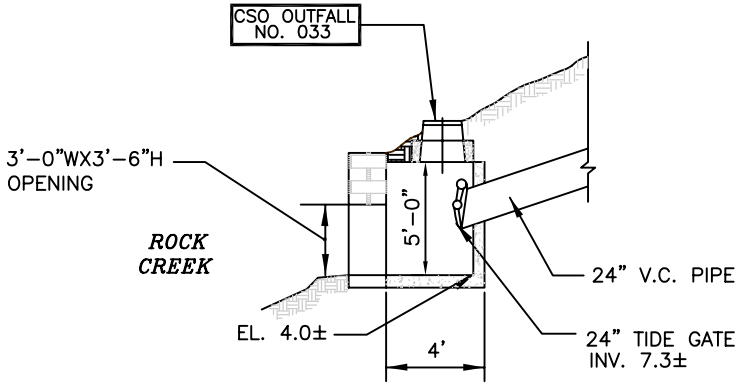
SCALE: 1"=100'



PLAN

N.T.S.

PHOTO



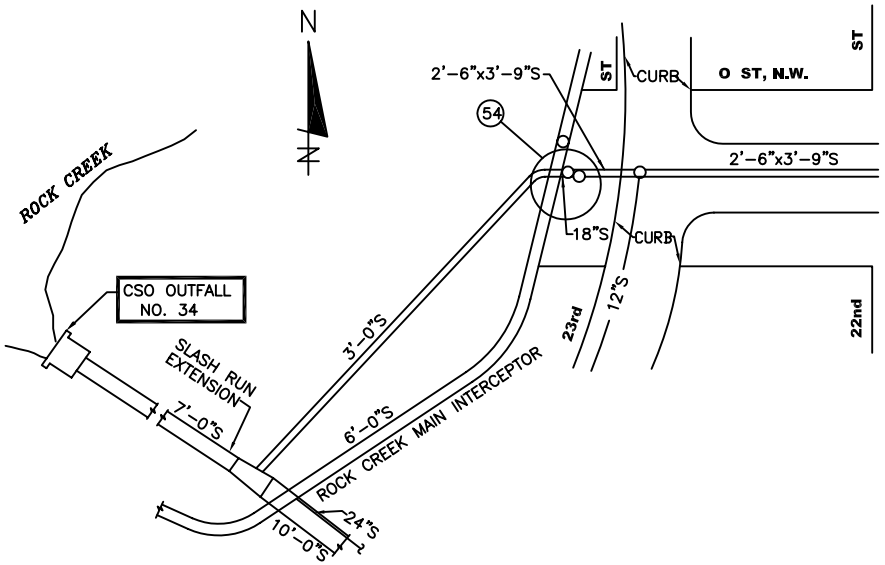
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

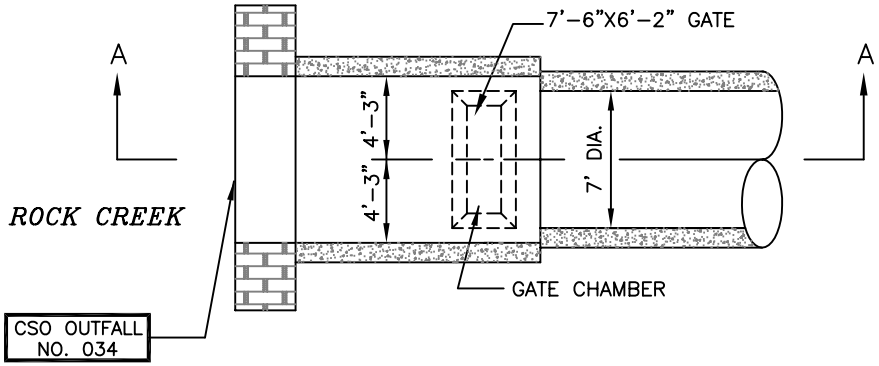
NPDES NO. 033

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-033



SITE PLAN

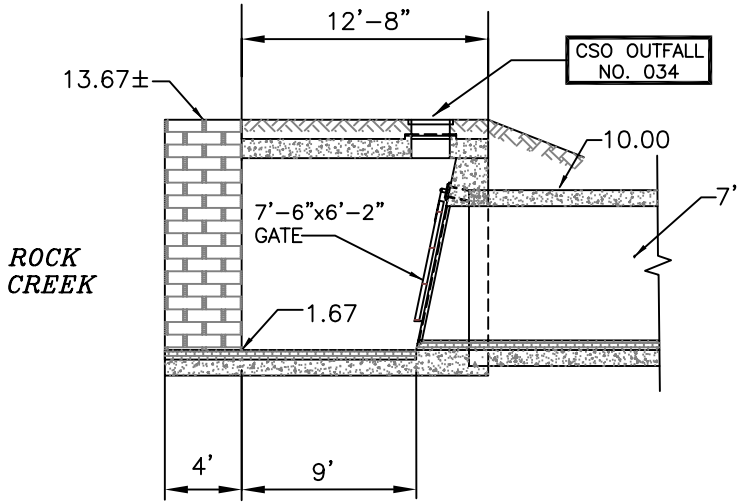
SCALE: 1"=100'



PLAN

N.T.S.

PHOTO



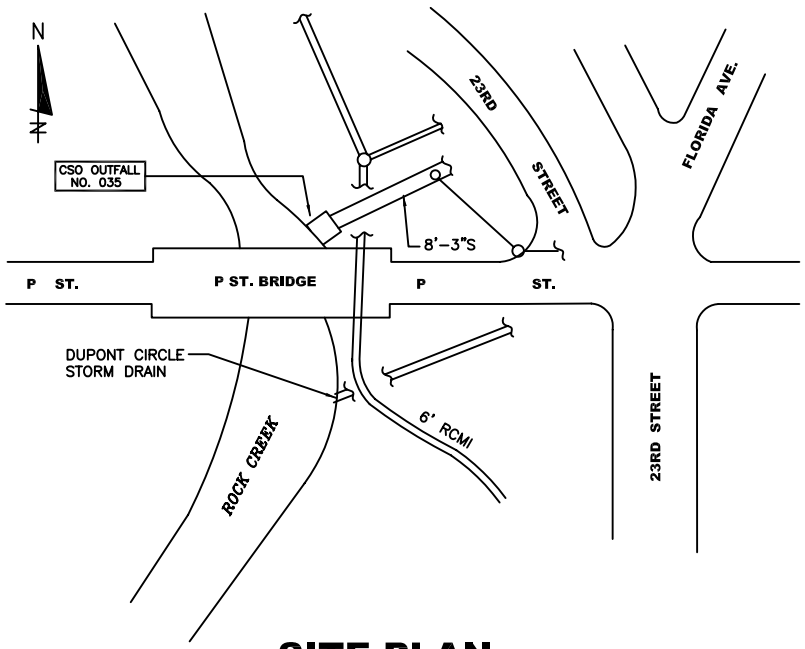
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO. 034

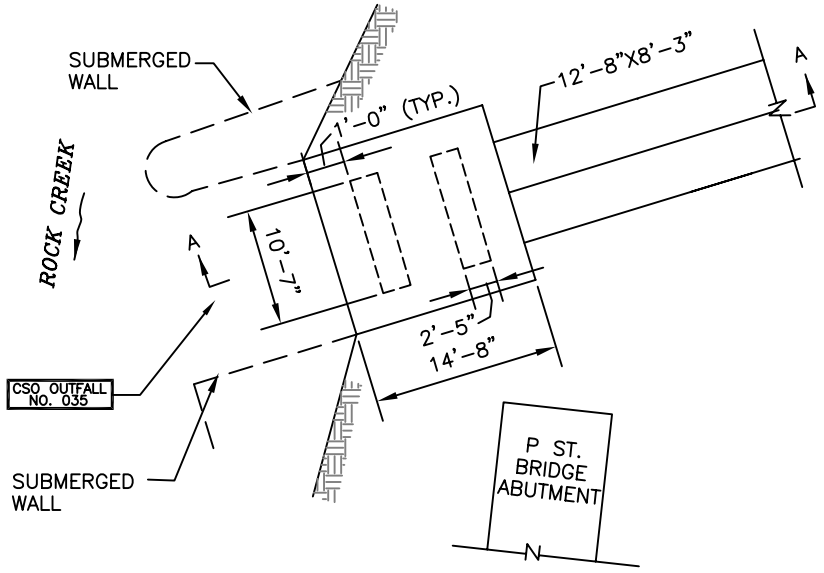
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-034



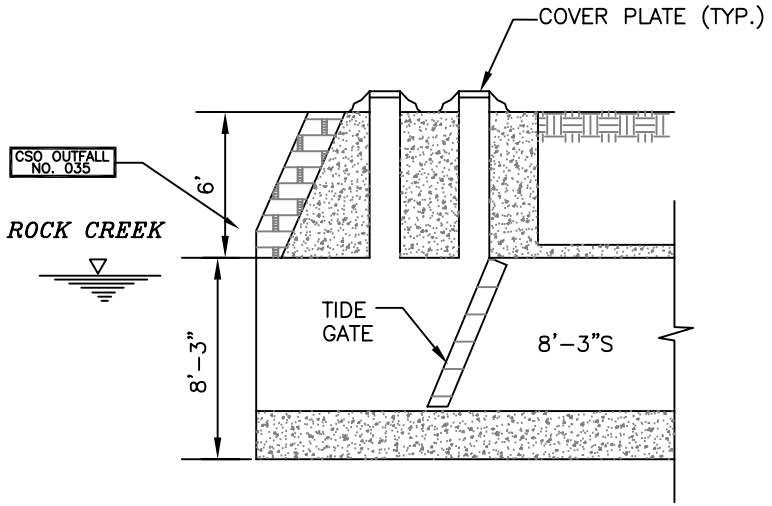
SITE PLAN
N.T.S.

PHOTO

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO



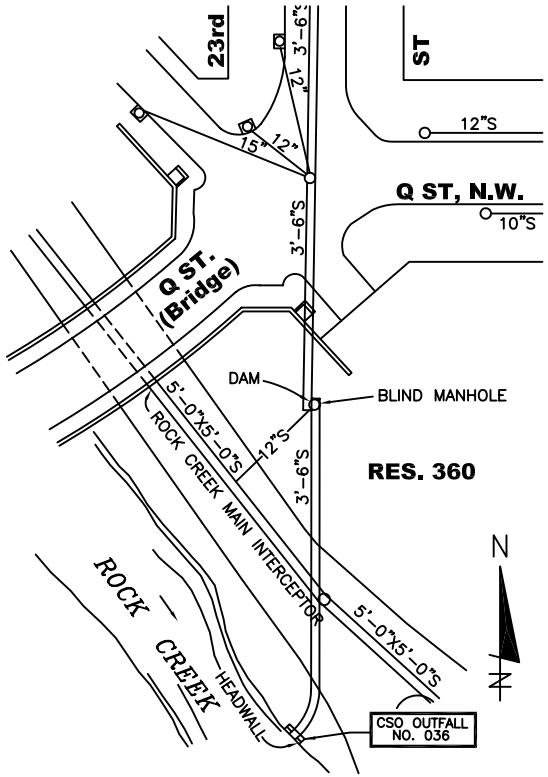
PLAN
N.T.S.



SECTION A-A
N.T.S.

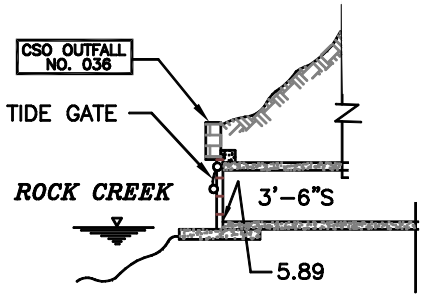
NPDES NO.
035

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-035



SITE PLAN

SCALE: 1"=100'



PROFILE

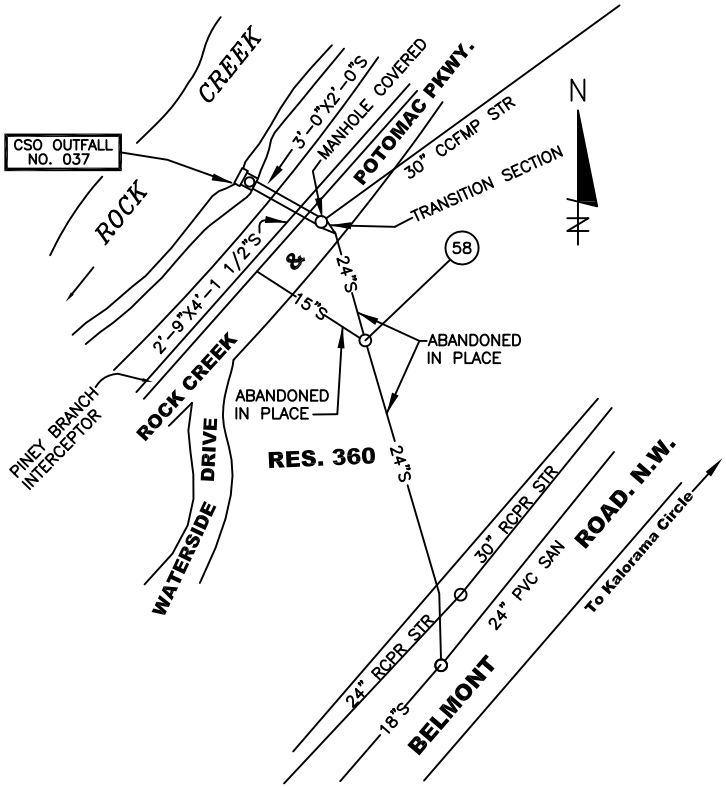
N.T.S.

PHOTO

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

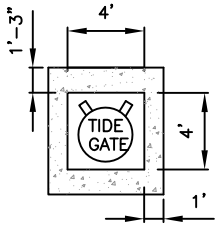
NPDES NO.
036

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALL\NPDES-036



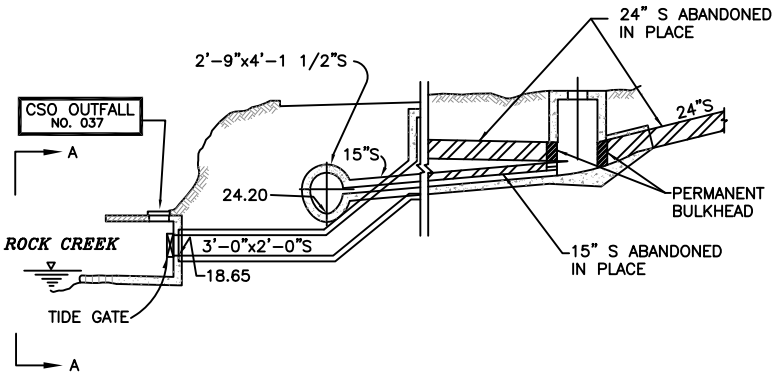
SITE PLAN

SCALE: 1"=100'



SECTION A-A

N.T.S.



PROFILE

N.T.S.

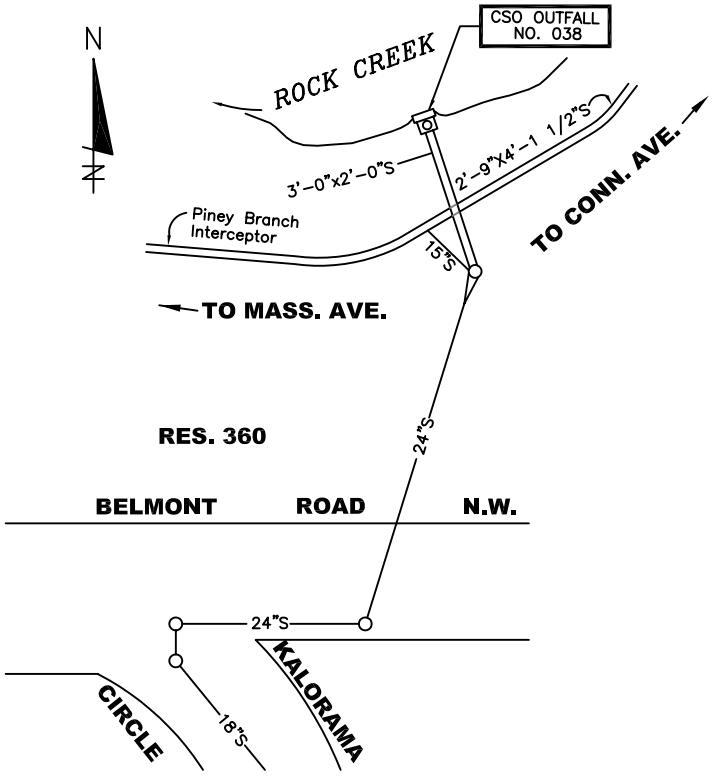
PHOTO

REVISED BY: PROGRAM CONSULTANS ORGANIZATION
REVISED DATE: FEBRUARY 2012
OUTFALL TYPE: CSO

THIS OUTFALL HAS BEEN CONVERTED IN TO A SEPARATE STORM SEWER OUTFALL.

NPDES NO. 037

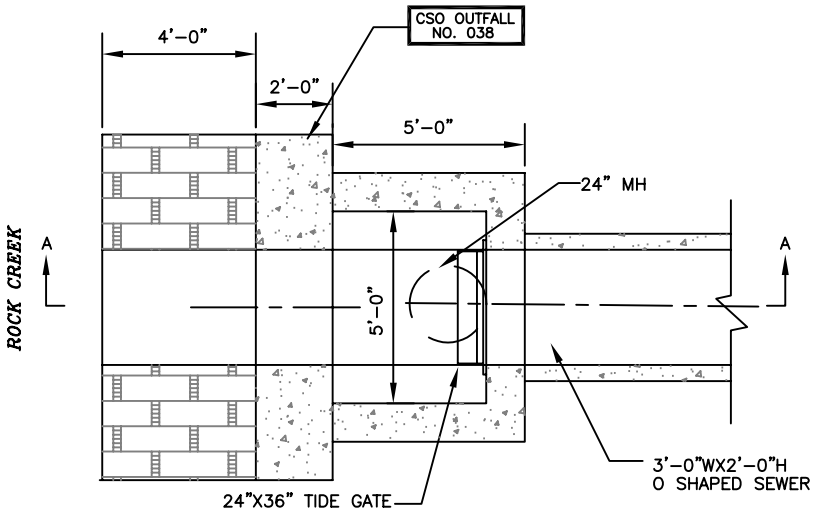
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALL\NPDES-037



SITE PLAN

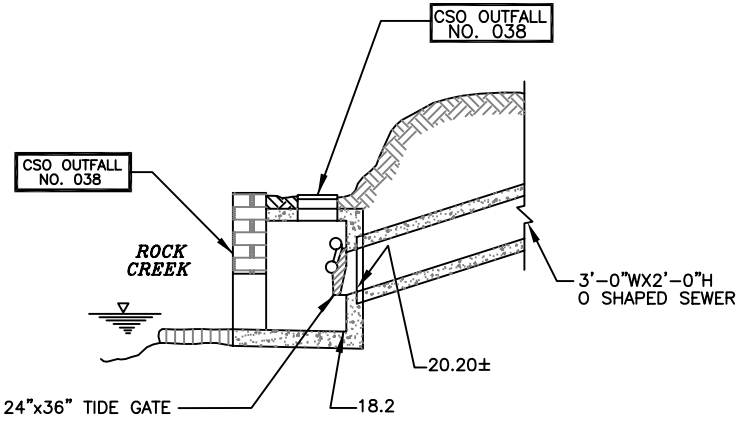
SCALE: 1"=100'

PHOTO



PLAN

N.T.S.



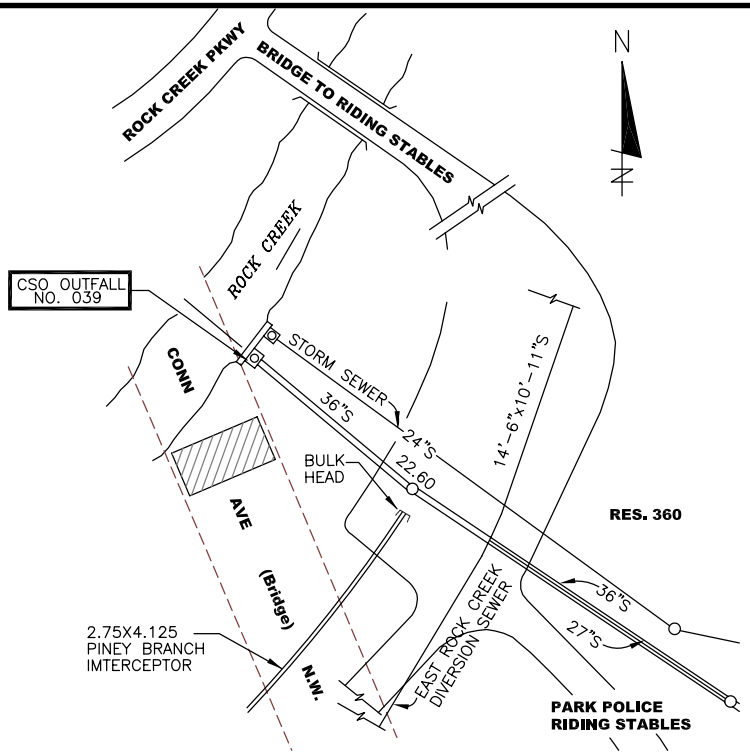
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

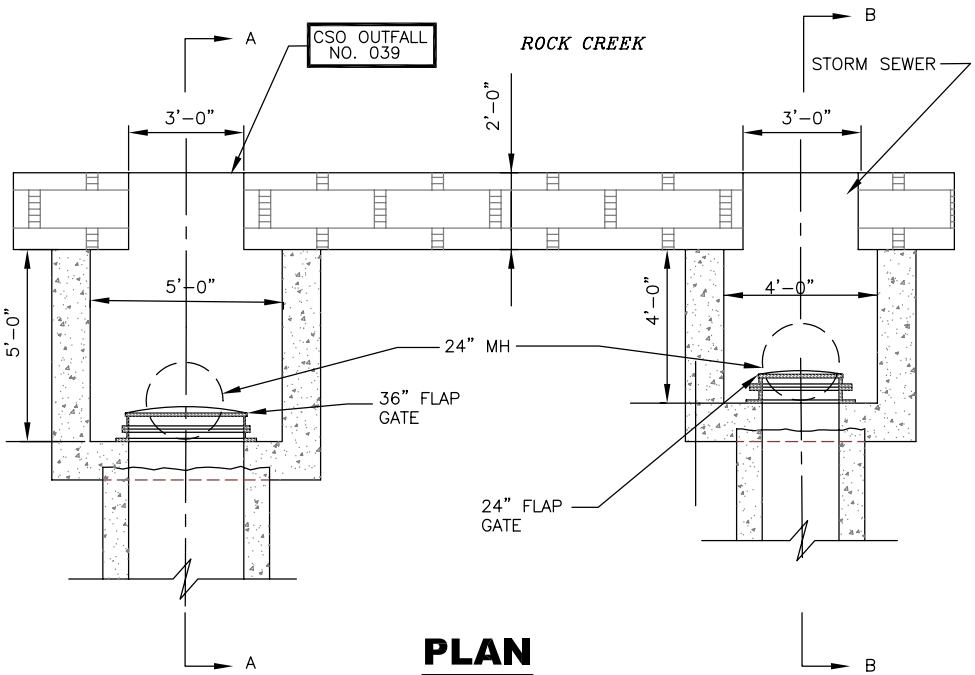
NPDES NO.
038

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALL\NPDES-038



SITE PLAN

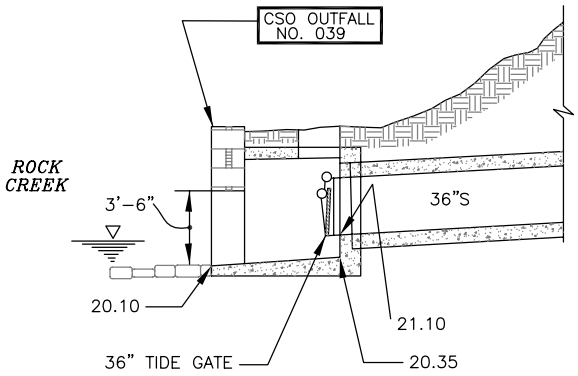
SCALE: 1"=100'



PLAN

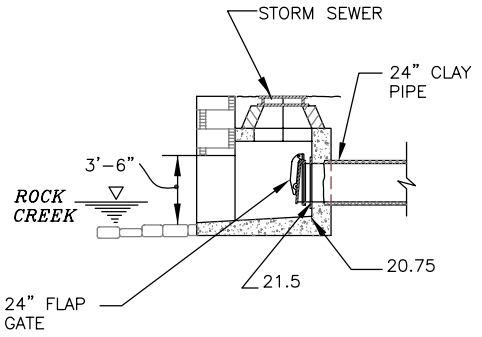
N.T.S.

PHOTO



SECTION A-A

N.T.S.



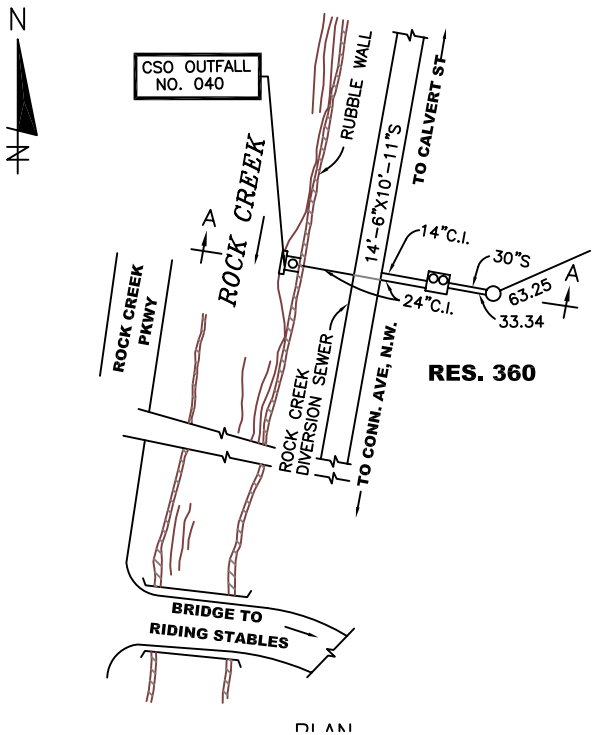
SECTION B-B

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO. 039

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALL\NPDES-039

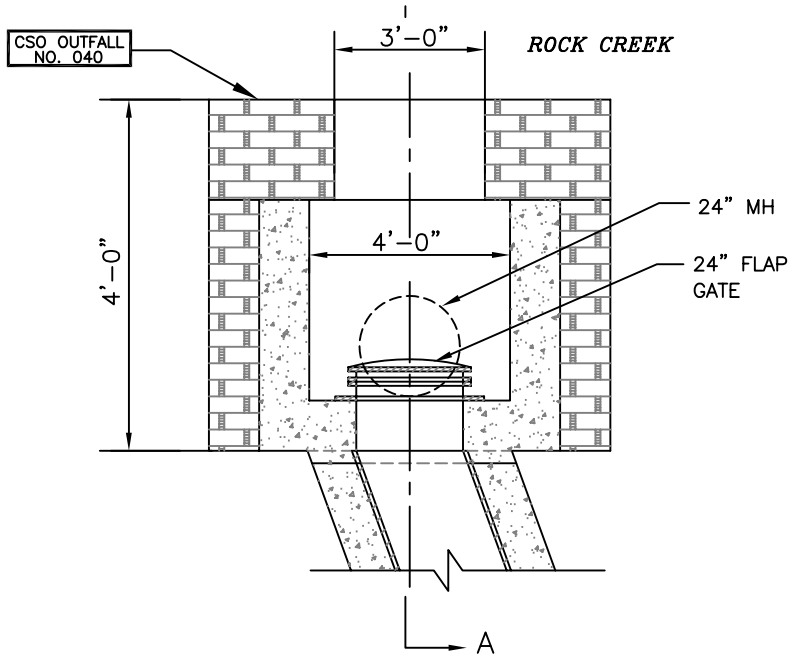


PLAN

SITE PLAN

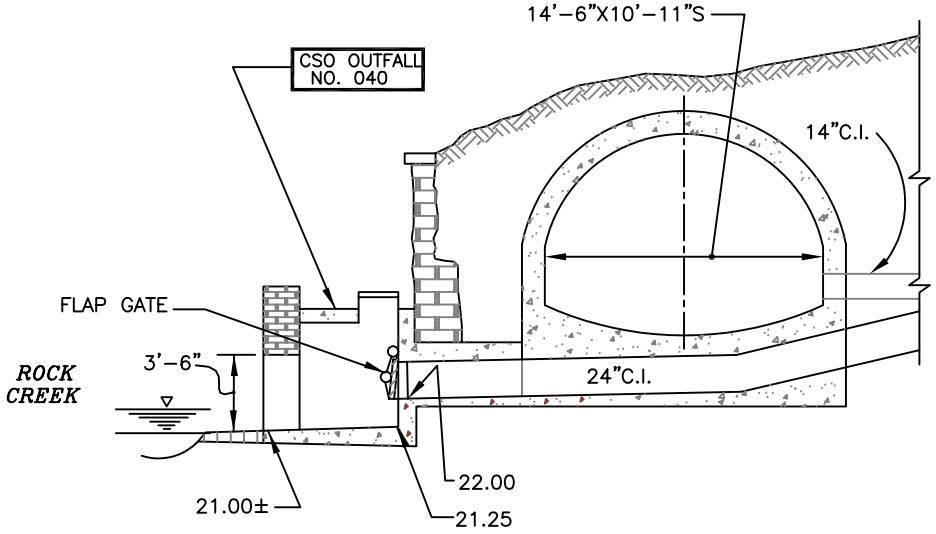
SCALE: 1"=100'

PHOTO



PLAN

N.T.S.



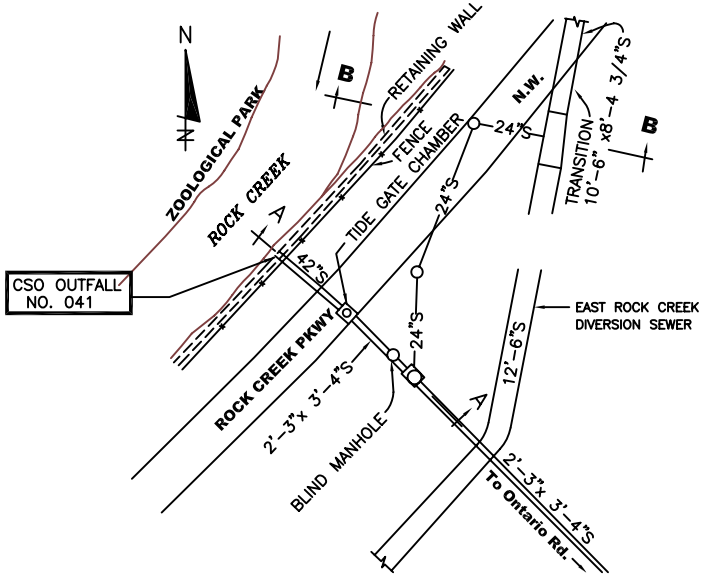
SECTION A-A

SCALE: 1"=10'

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO. 040

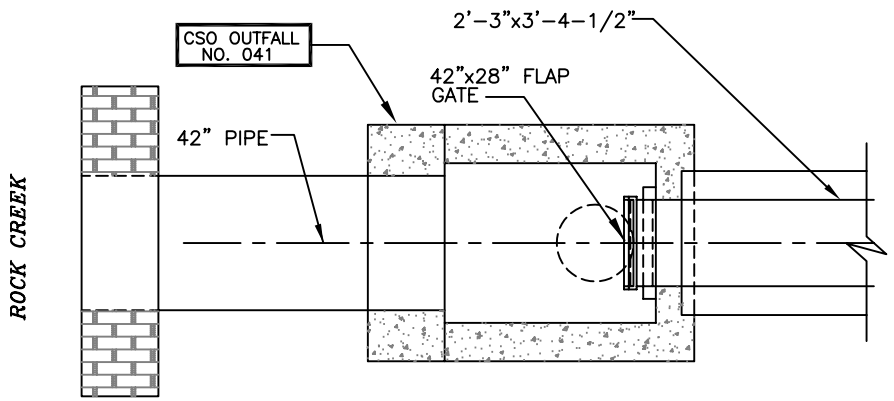
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALL\NPDES-040



SITE PLAN

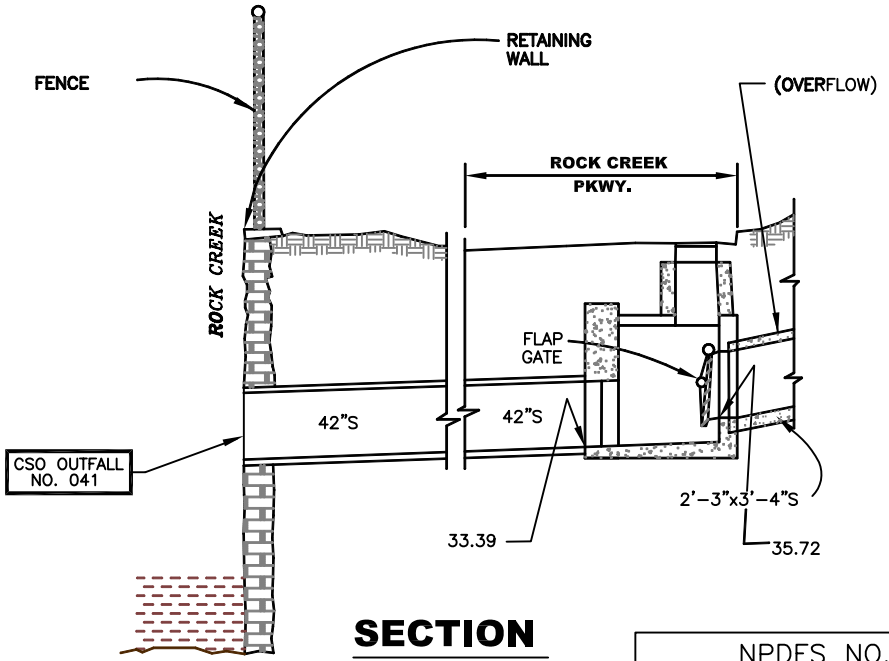
SCALE: 1"=100'

PHOTO



PLAN

N.T.S.



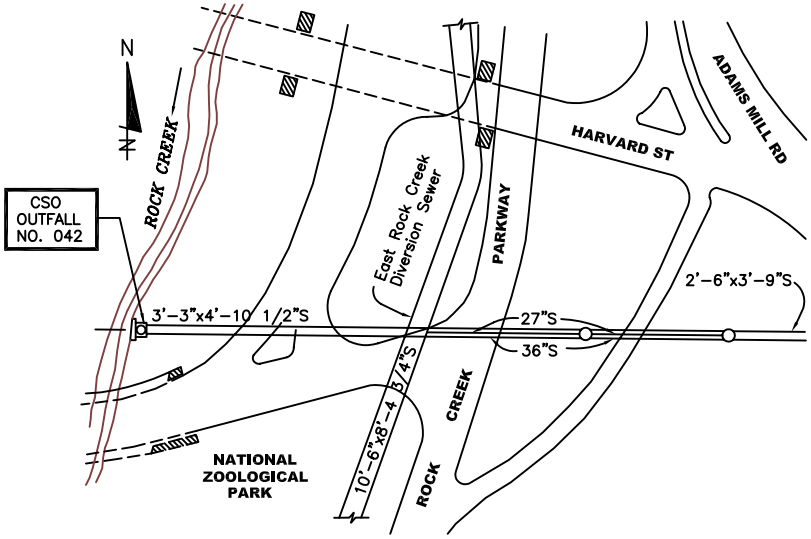
SECTION

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

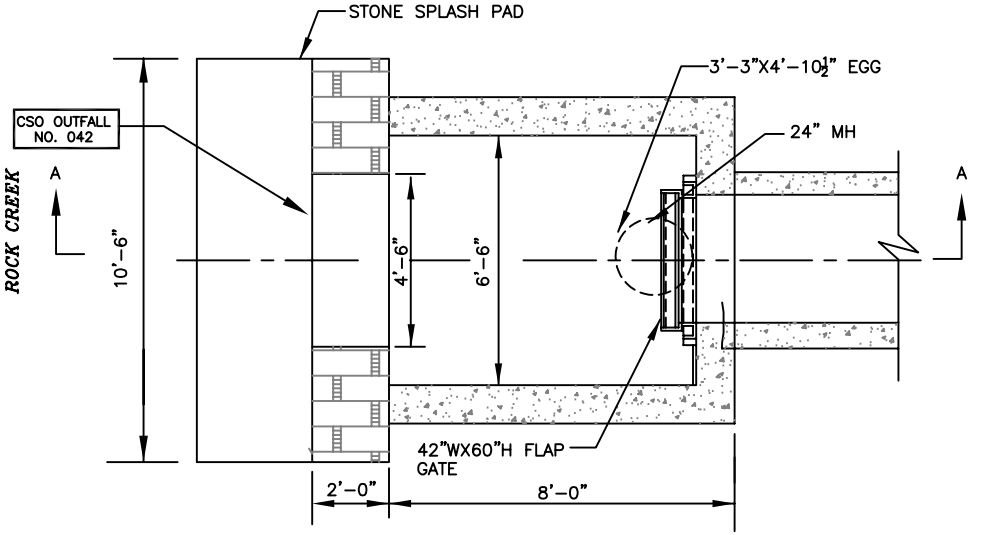
NPDES NO. 041

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-041



SITE PLAN

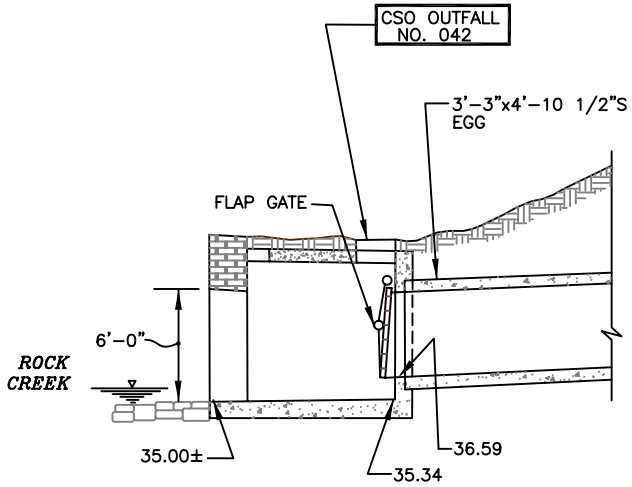
SCALE: 1"=100'



PLAN

N.T.S.

PHOTO



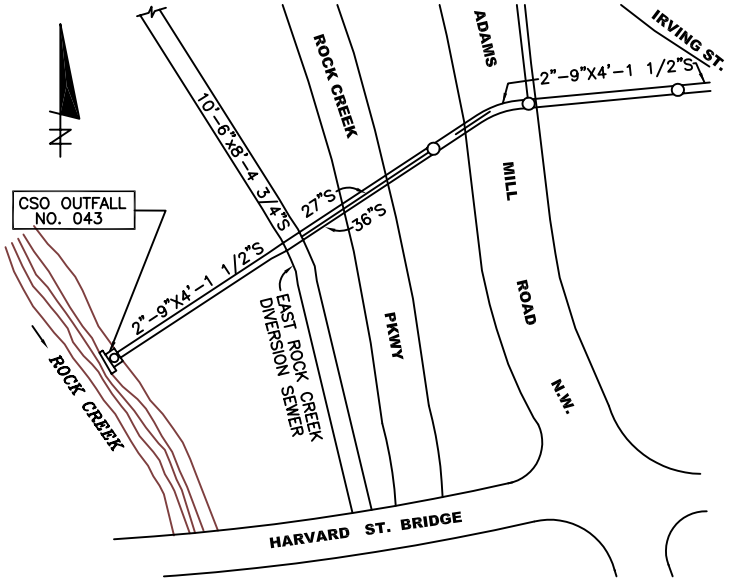
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

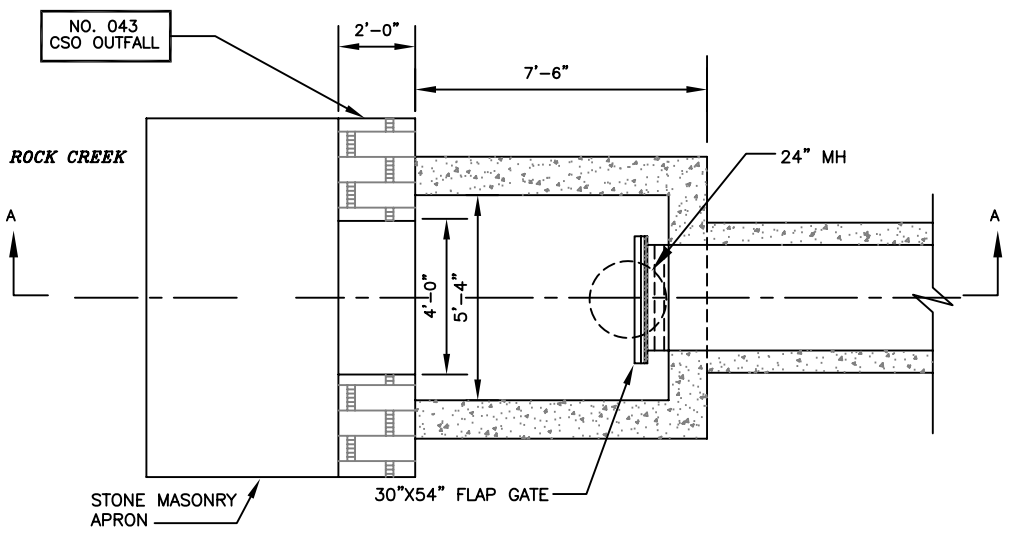
NPDES NO. 042

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-042



SITE PLAN

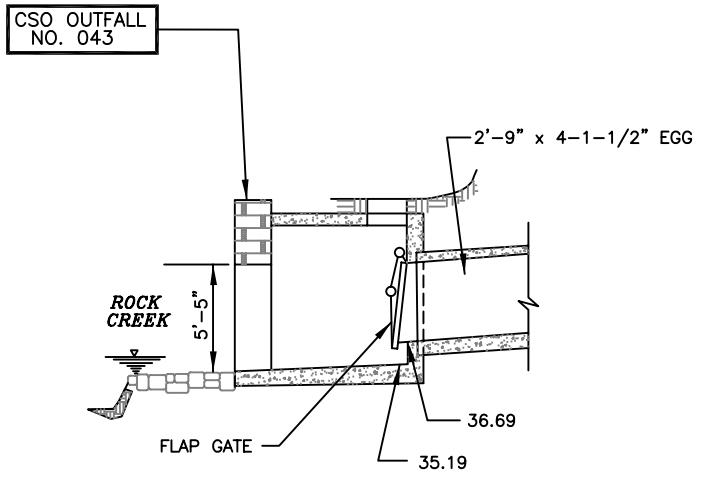
N.T.S.



PLAN

N.T.S.

PHOTO



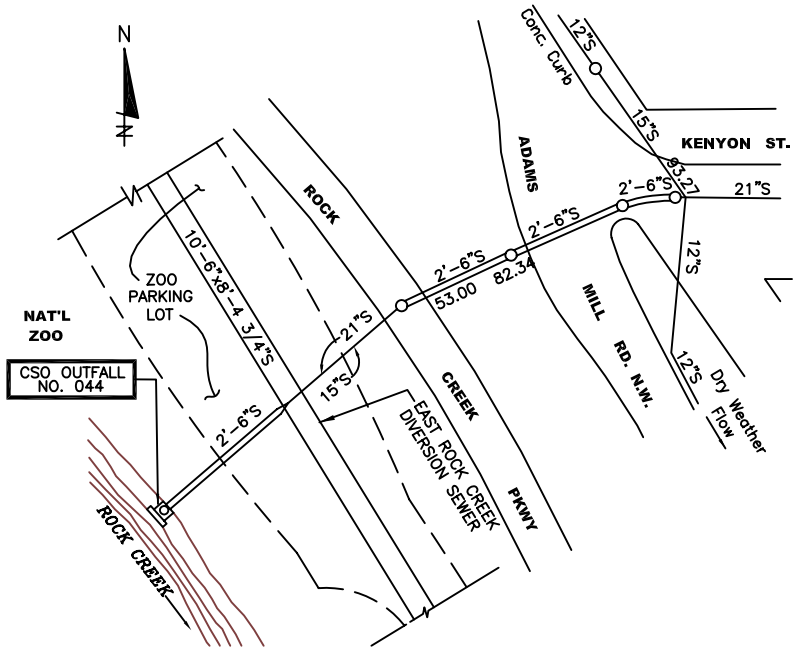
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO.
043

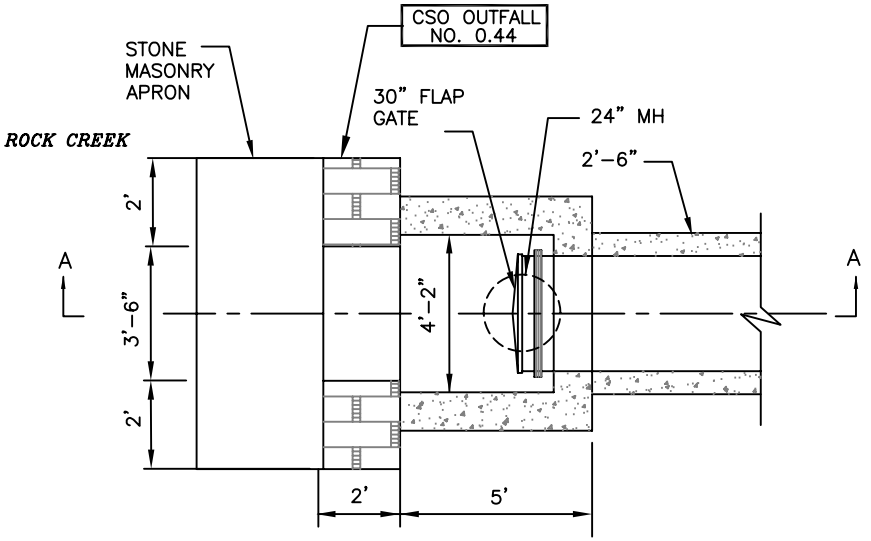
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-043



SITE PLAN

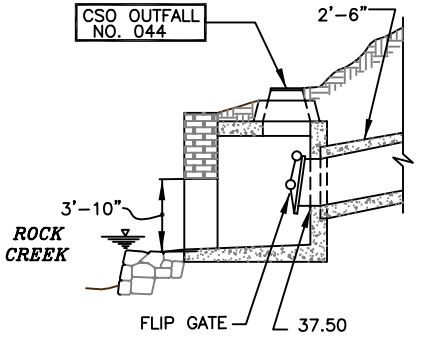
SCALE: 1"=100'

PHOTO



PLAN

N.T.S.



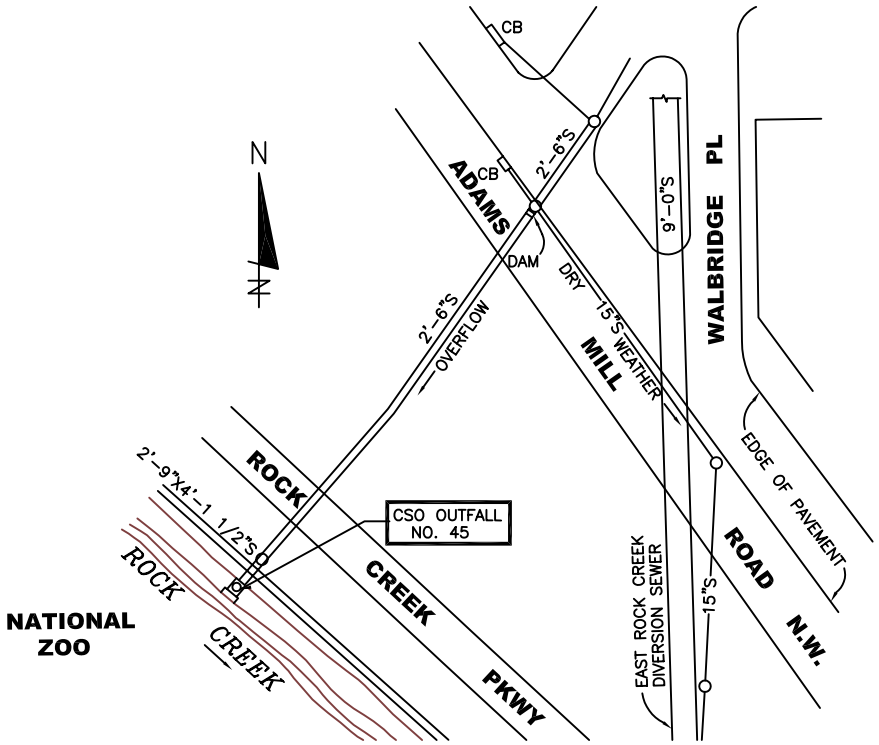
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO. 044

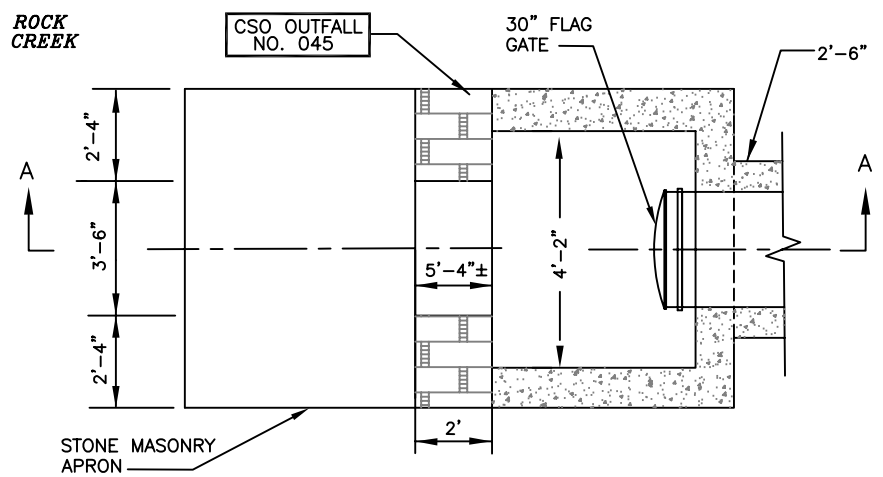
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-044



SITE PLAN

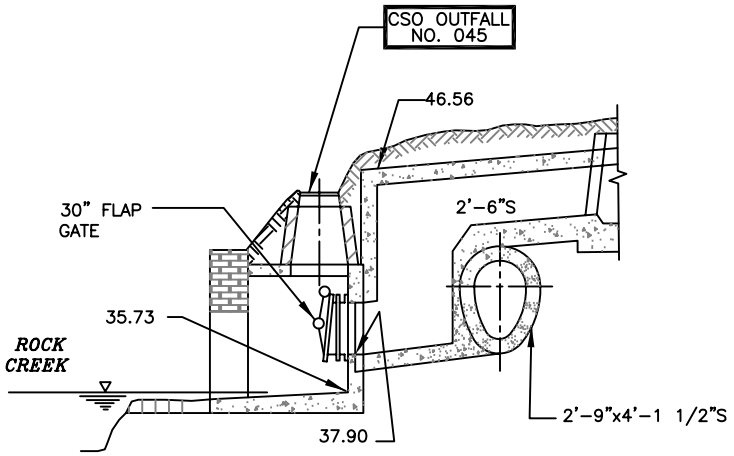
SCALE: 1"=100'

PHOTO



PLAN

N.T.S.



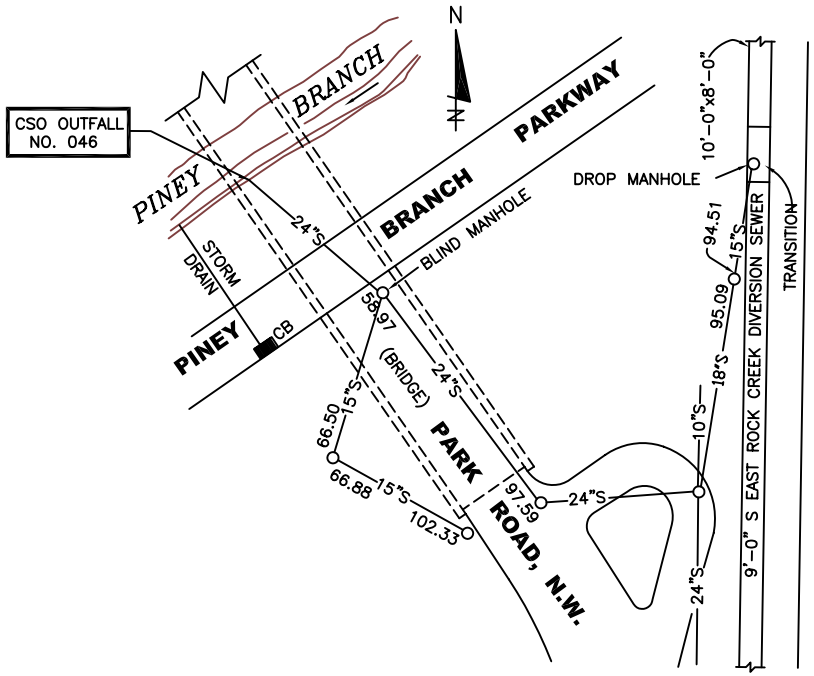
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

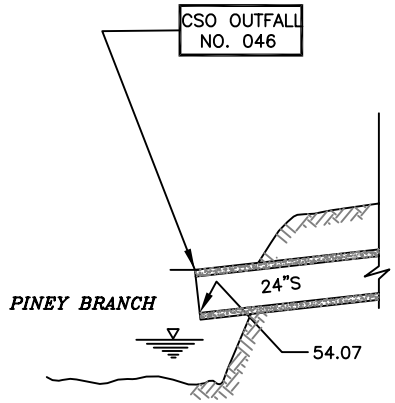
NPDES NO.
045

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-045



SITE PLAN

SCALE: 1"=100'



PROFILE

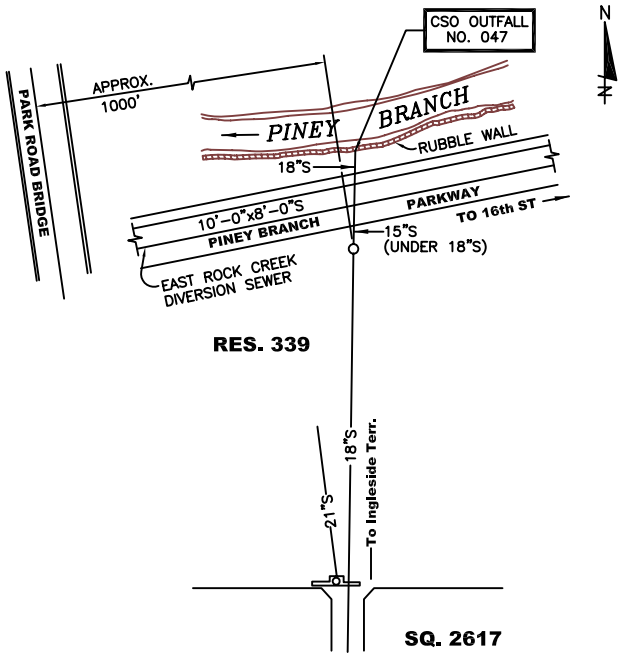
N.T.S.

PHOTO

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

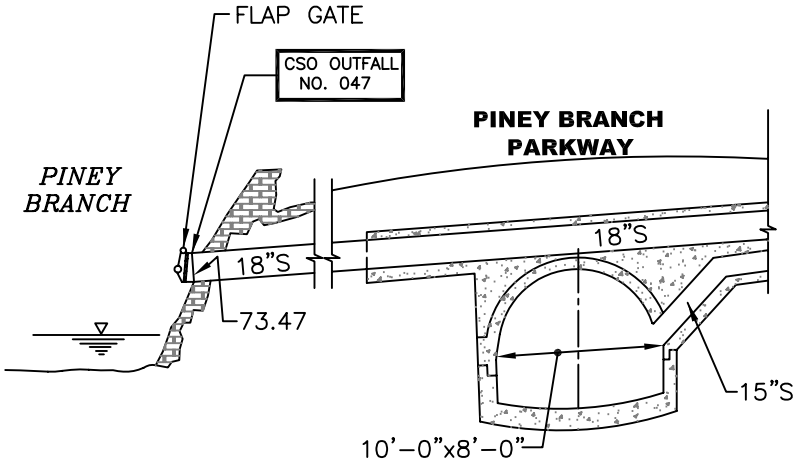
NPDES NO.
046

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-046



SITE PLAN

SCALE: 1"=100'



PROFILE

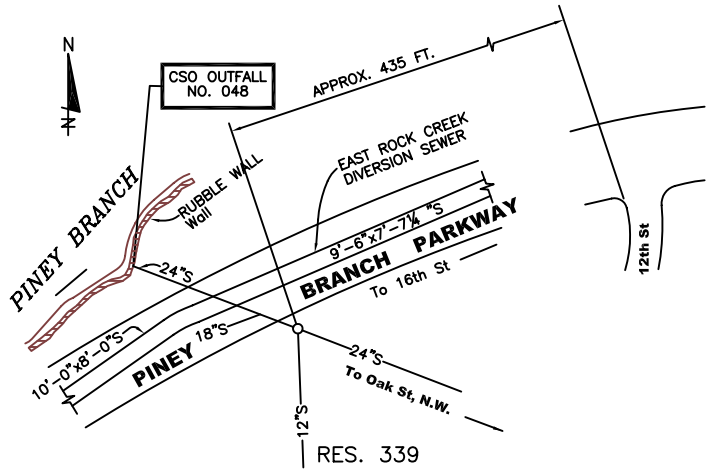
N.T.S.

PHOTO

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

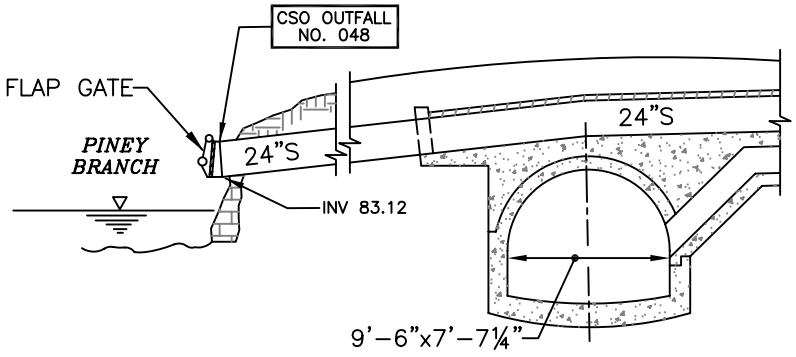
NPDES NO. 047

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-047



SITE PLAN

SCALE: 1"=100'



PROFILE

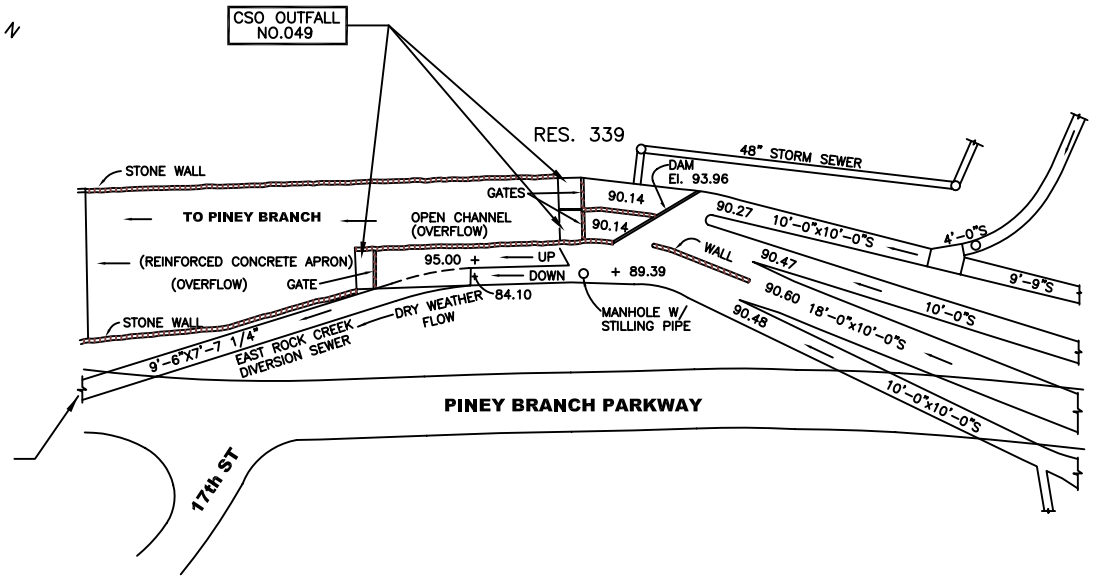
N.T.S.

PHOTO

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO.
048

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-048



SITE PLAN

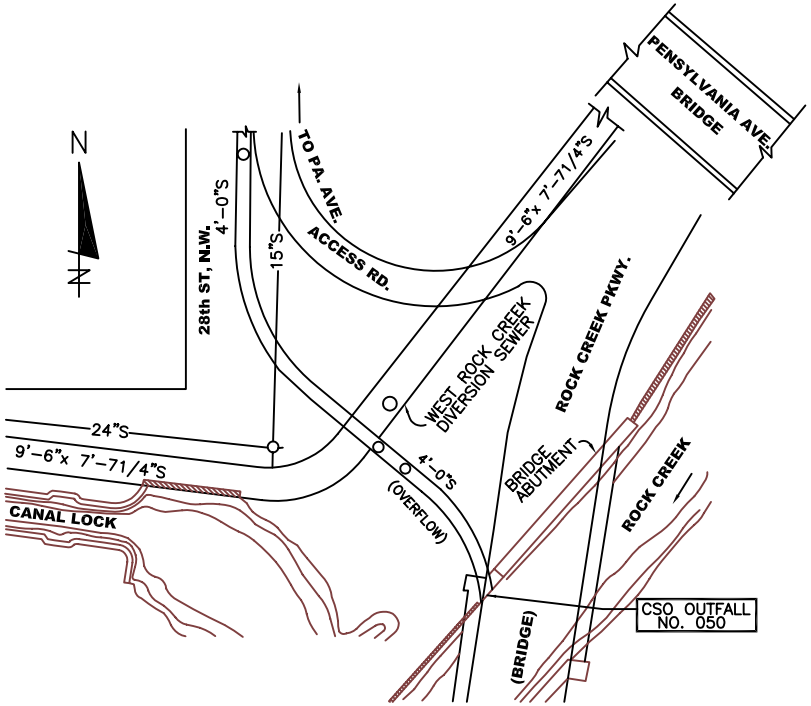
SCALE: 1"=100'

PHOTO

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

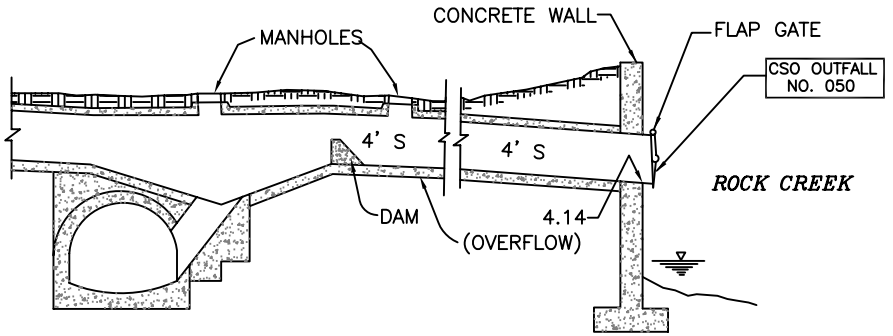
NPDES NO.
049

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-049



SITE PLAN
SCALE: 1"=80'

PHOTO

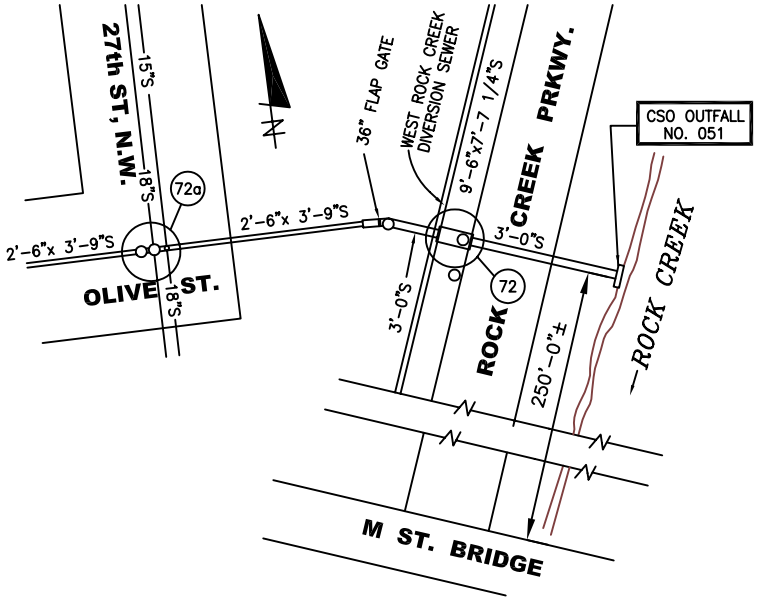


PROFILE
N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO.
050

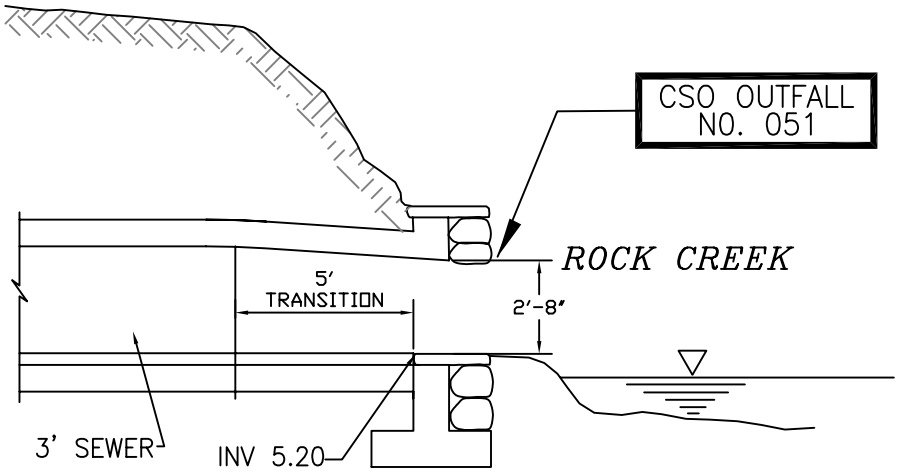
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-050



SITE PLAN

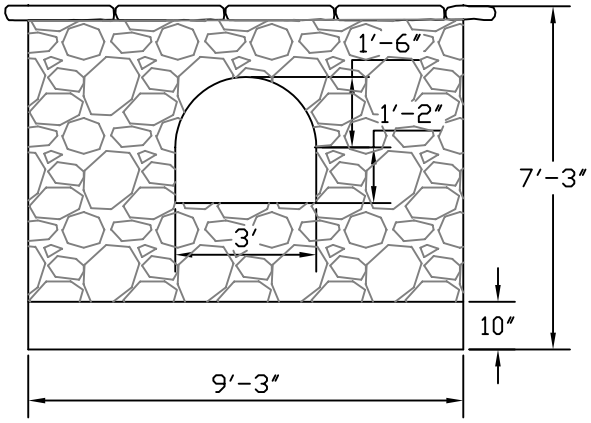
SCALE: 1"=80'

PHOTO



PROFILE

N.T.S.



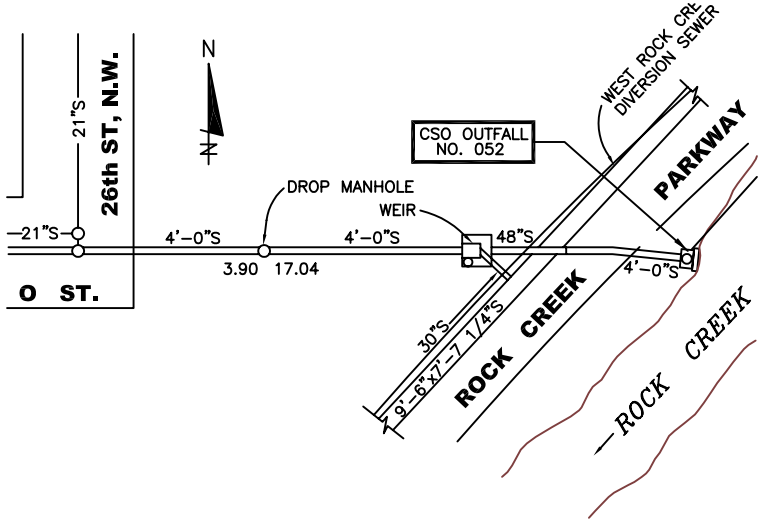
ELEVATION

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

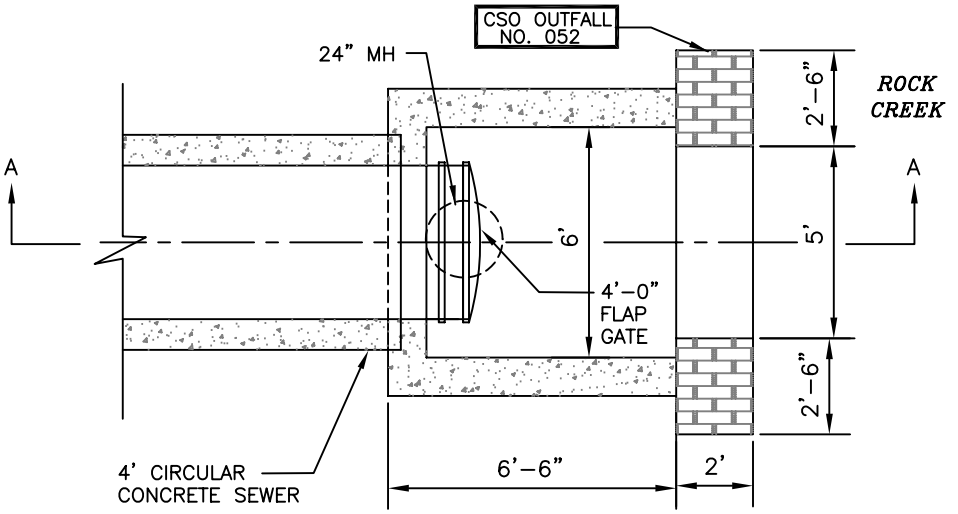
NPDES NO. 051

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-051



SITE PLAN

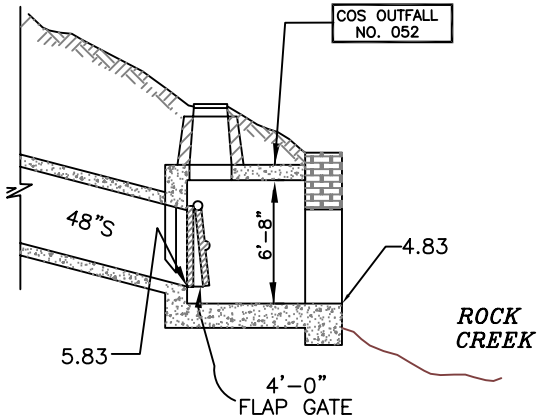
SCALE: 1"=100'



PLAN

N.T.S.

PHOTO



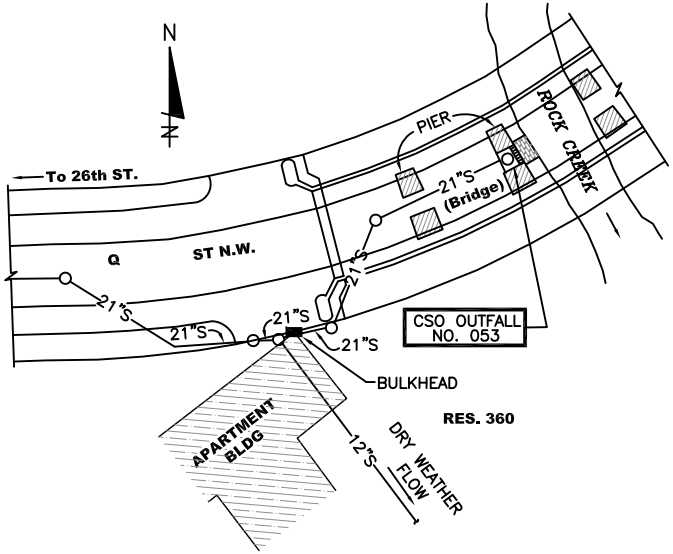
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

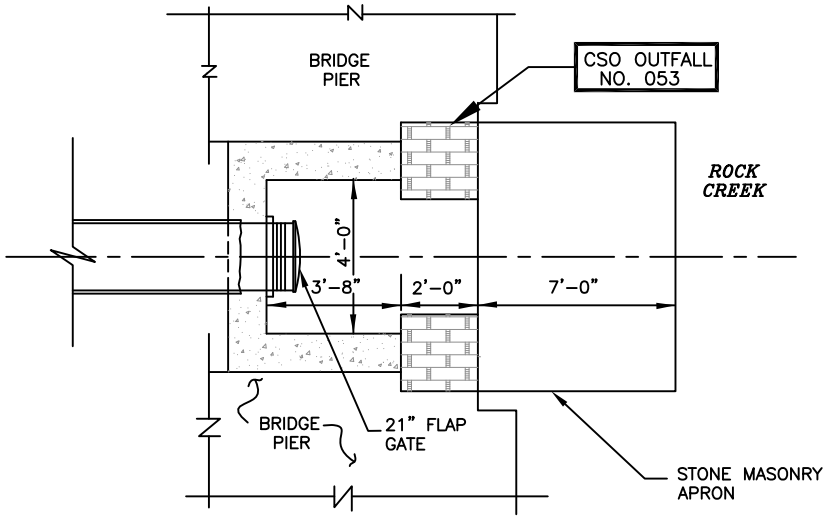
NPDES NO. 052

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-052



SITE PLAN

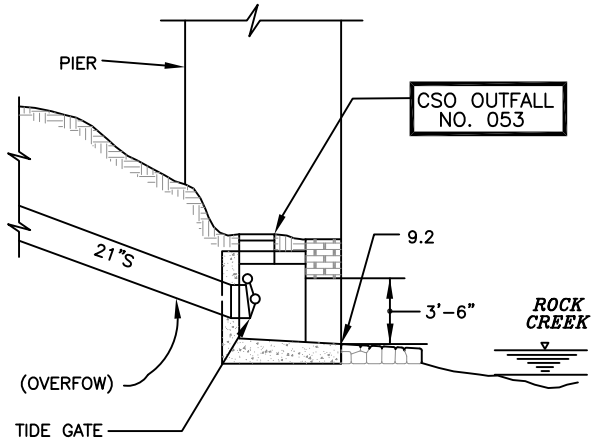
SCALE: 1"=100'



SITE PLAN

N.T.S.

PHOTO



SECTION

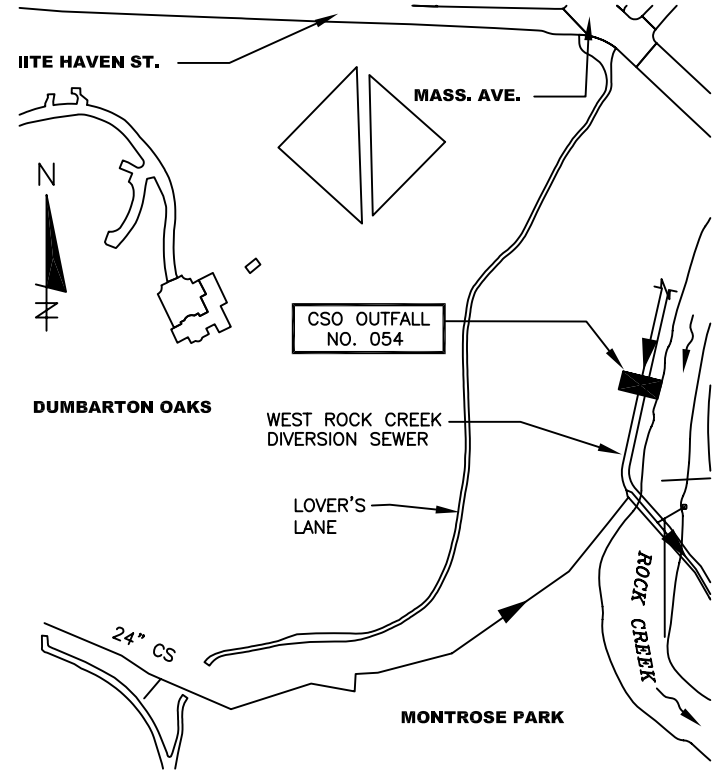
SCALE: 1"=10'

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: FEBRUARY 2012
OUTFALL TYPE: CSO

THIS OUTFALL HAS BEEN CONVERTED IN TO A SEPARATE STORM SEWER OUTFALL.

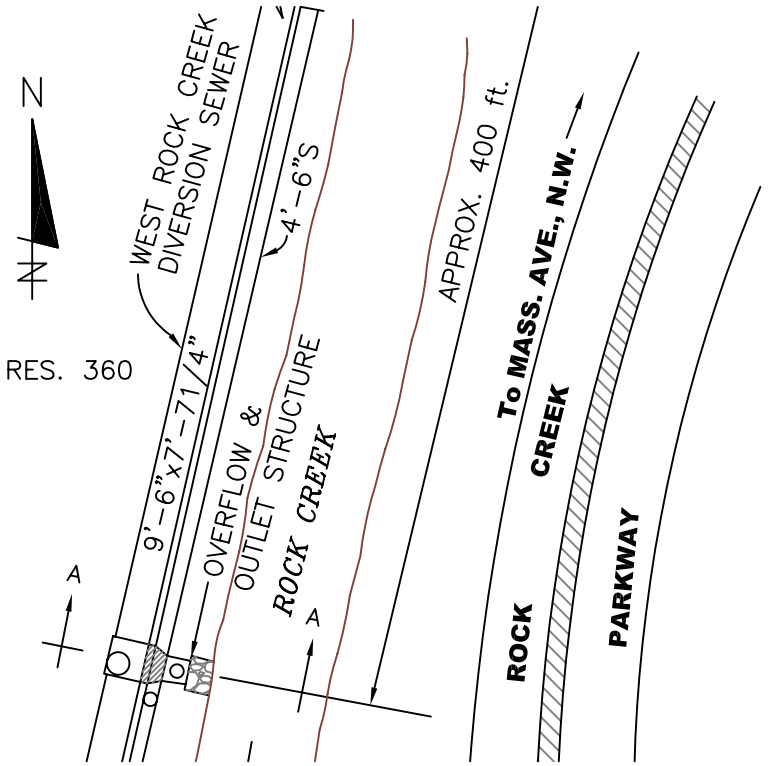
NPDES NO. 053

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-053



SITE PLAN

SCALE: 1"=300'

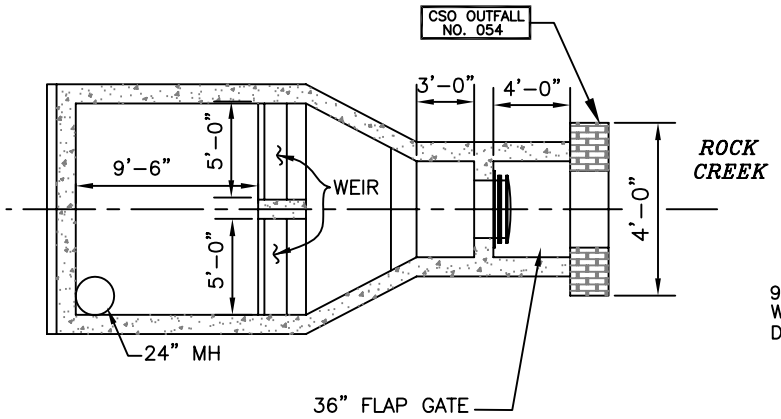


DETAIL PLAN

N.T.S.

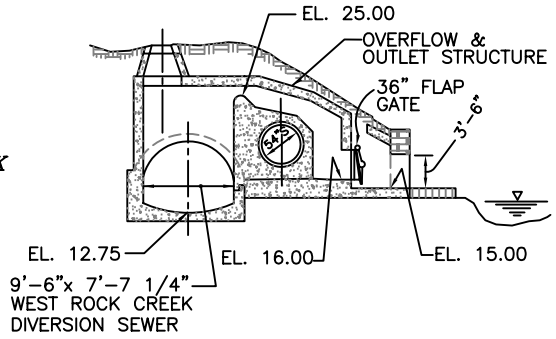
PHOTO

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO



PLAN

SCALE: 1"=10'

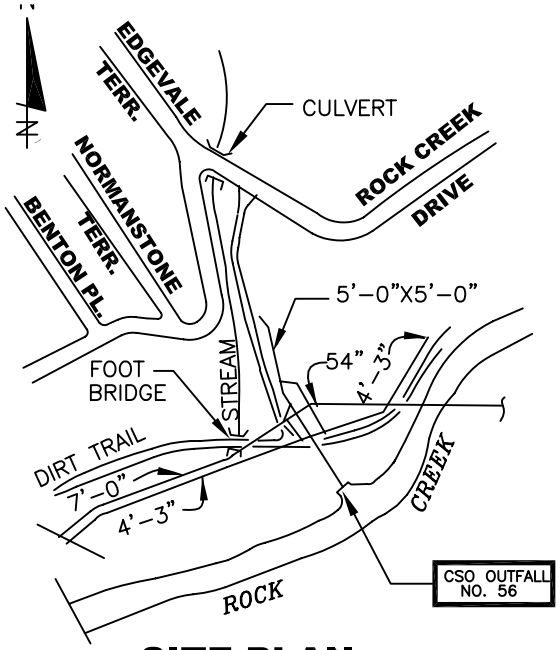


SECTION A-A

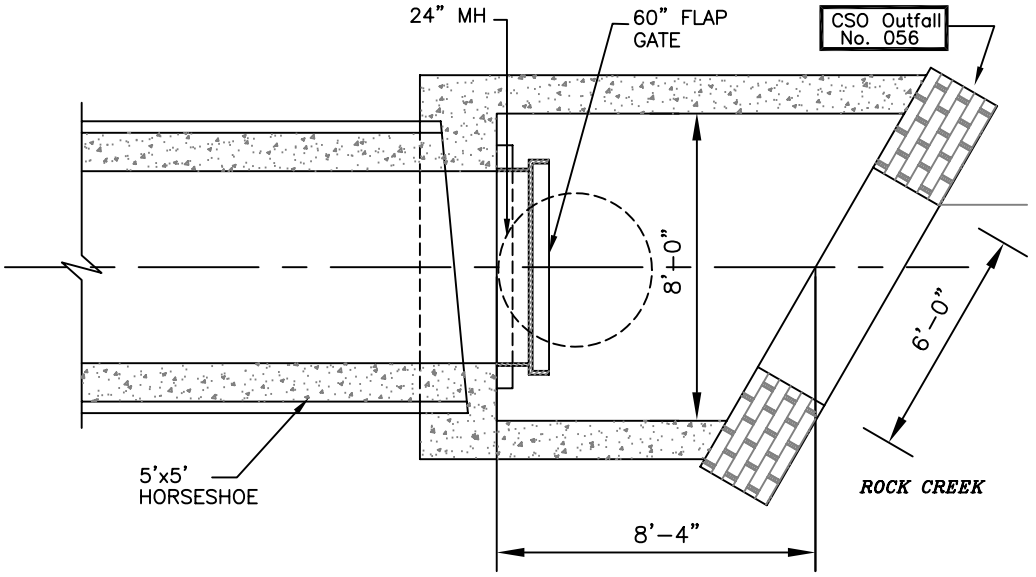
N.T.S.

NPDES NO. 054

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-054

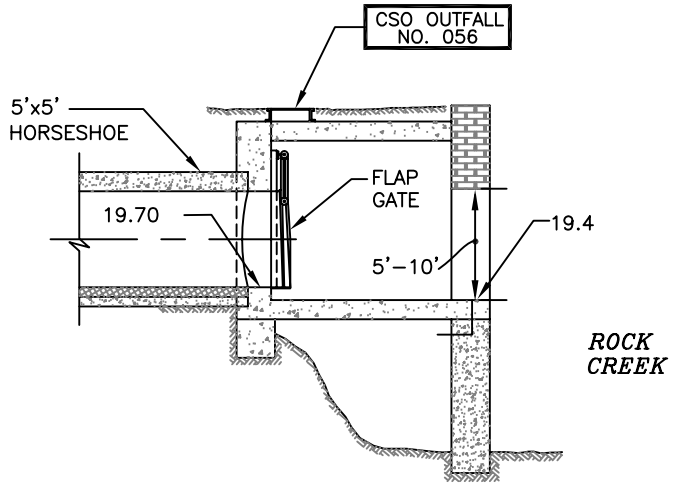


SITE PLAN
N.T.S.



PLAN
N.T.S.

PHOTO

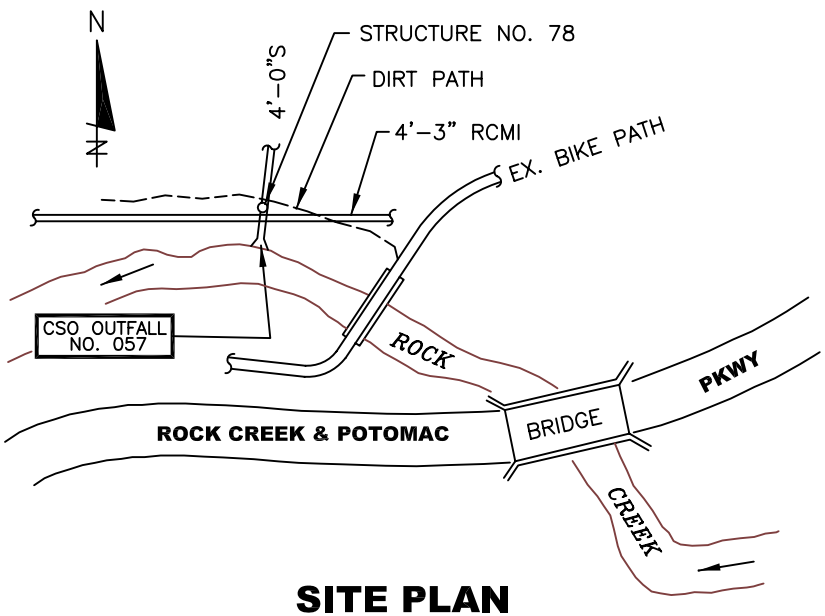


SECTION
N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO.
056

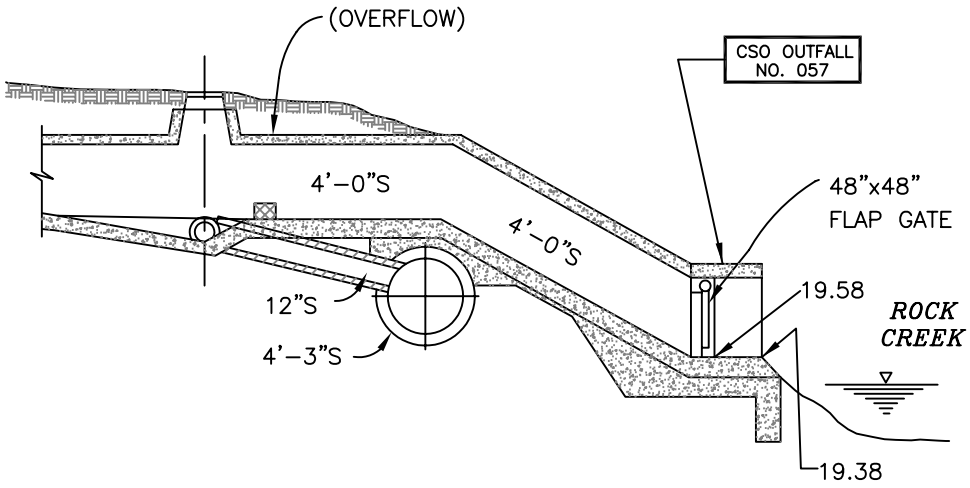
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-056 1:1 06/02/04 09:35 GH-G



SITE PLAN

N.T.S.

PHOTO



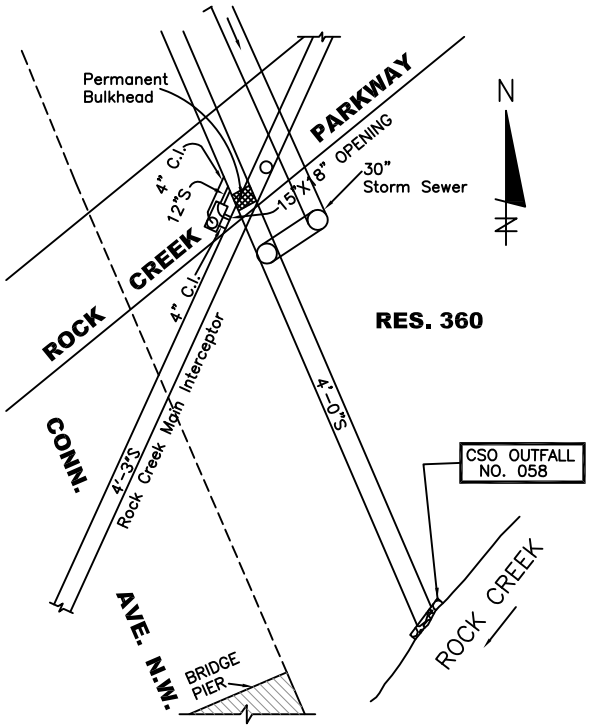
SECTION

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

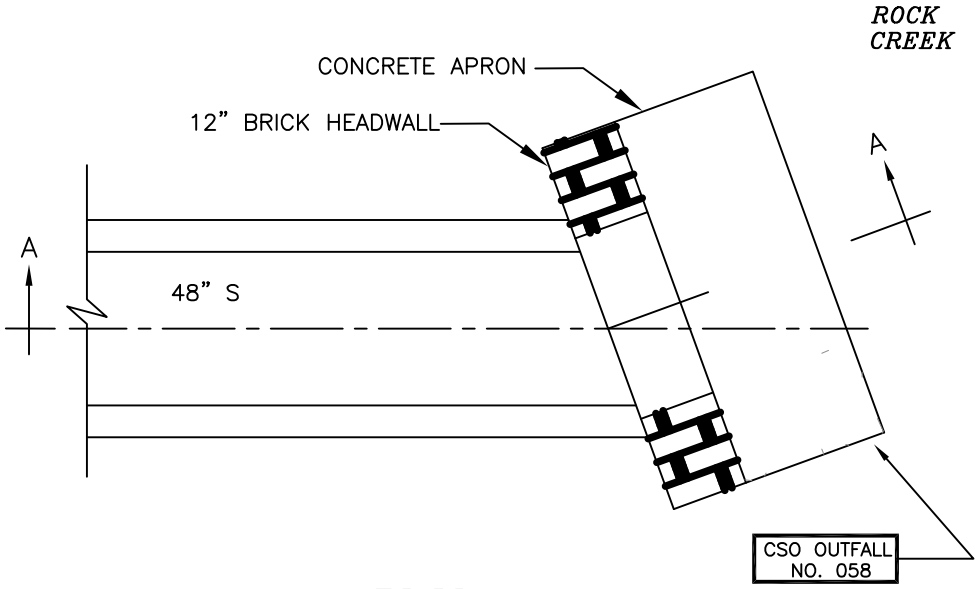
NPDES NO.
057

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-057



SITE PLAN

SCALE: 1"=40'



PLAN

N.T.S.

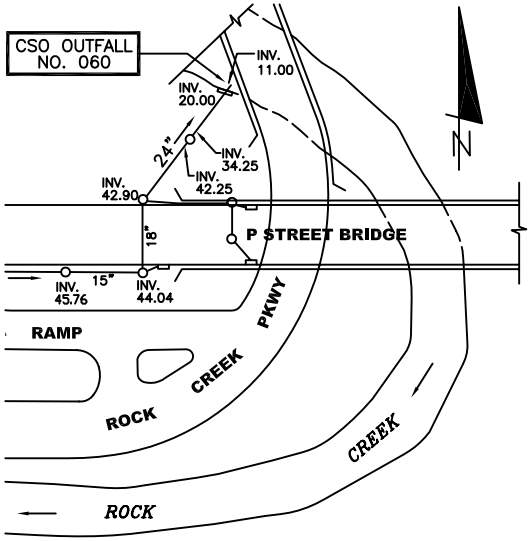
PHOTO

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: FEBRUARY 2012
OUTFALL TYPE: CSO

THIS OUTFALL HAS BEEN CONVERTED IN TO A SEPARATE STORM SEWER OUTFALL.

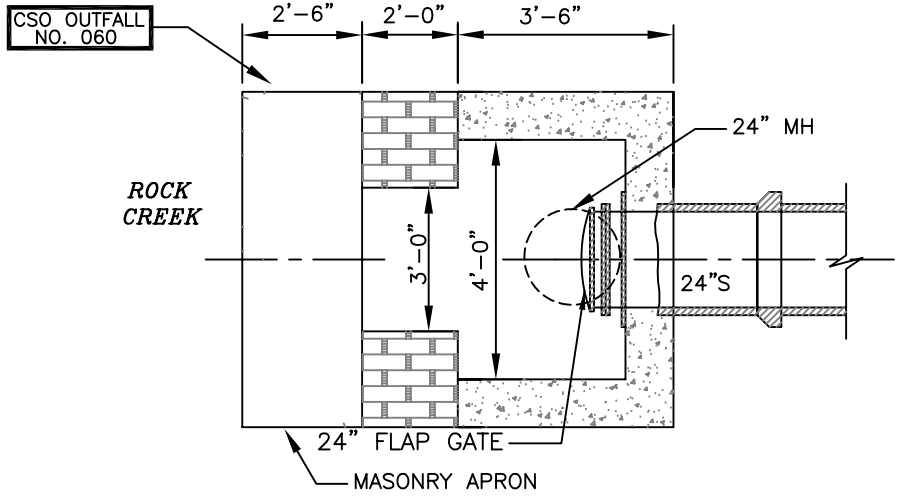
NPDES NO. 058

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-058



SITE PLAN

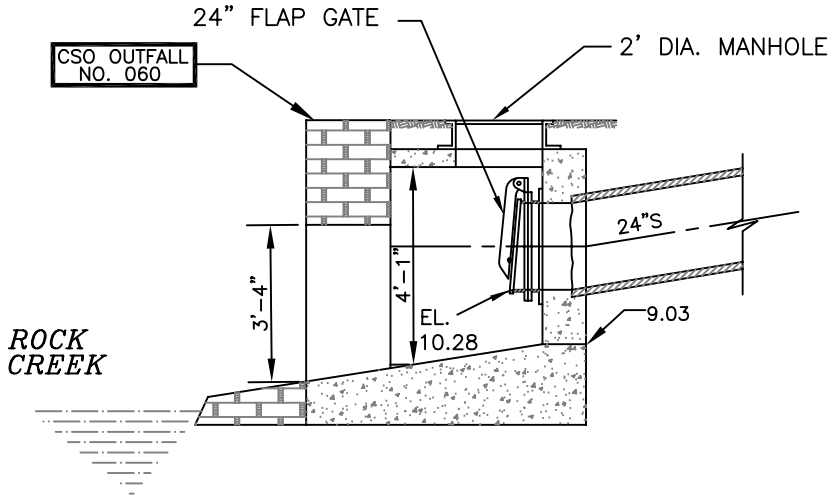
N.T.S.



PLAN

N.T.S.

PHOTO



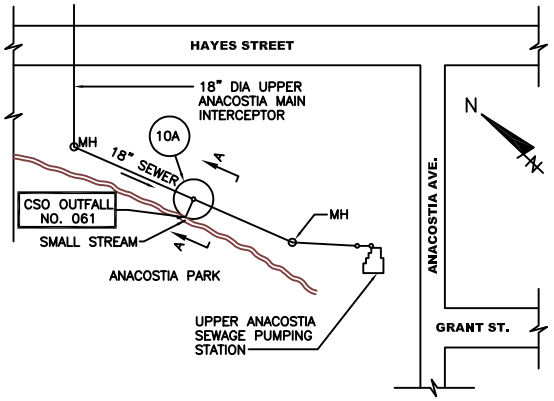
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: CSO

NPDES NO. 060

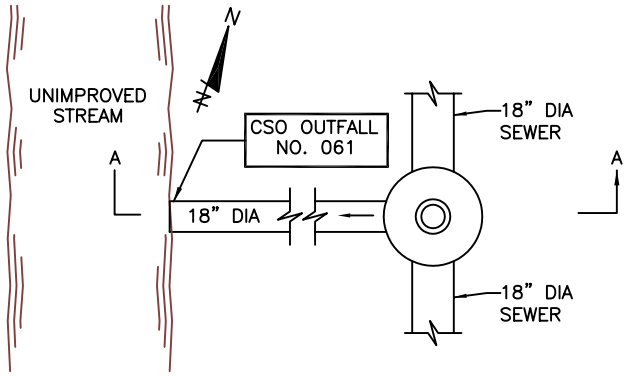
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-060



SITE PLAN

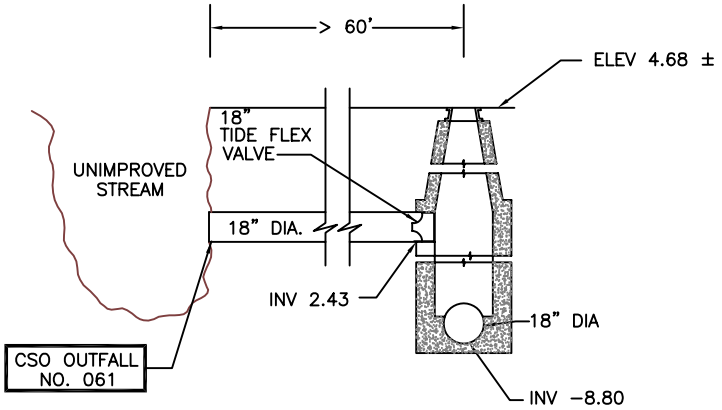
SCALE: 1"=60'

PHOTO



PLAN

N.T.S.



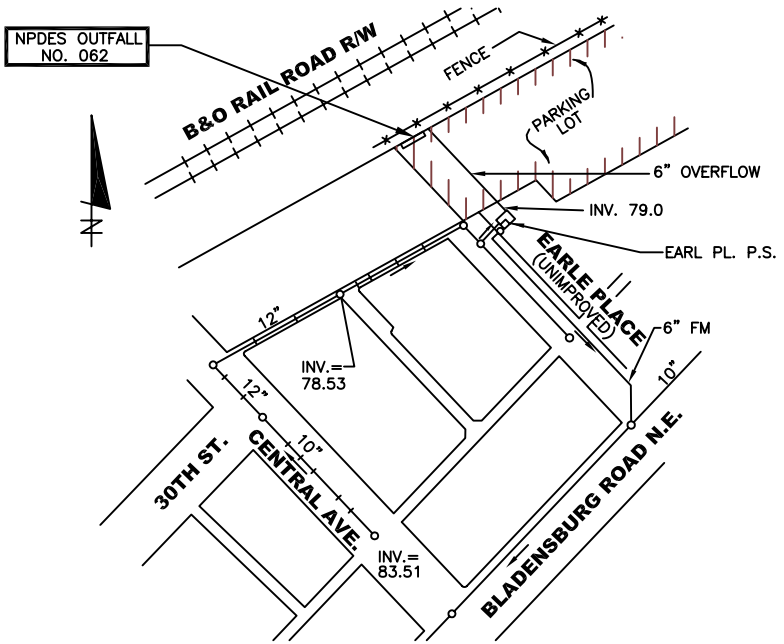
SECTION A-A

N.T.S.

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: EMERGENCY RELIEF

NPDES NO. 061

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-061



PLAN

N.T.S.

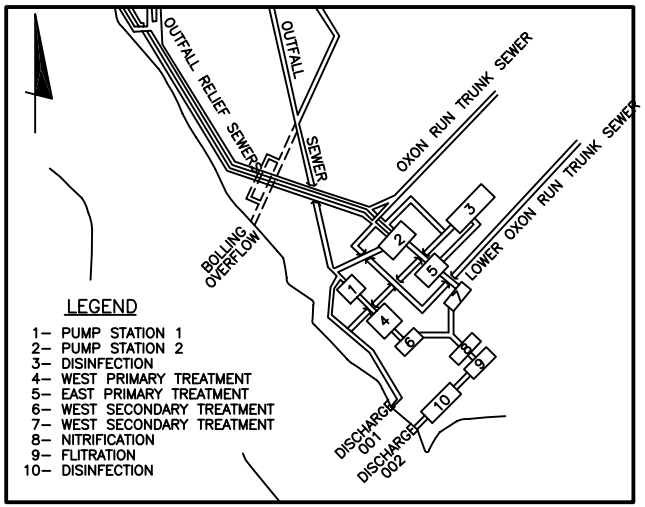
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\OUTFALLS\NPDES-061

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
OUTFALL TYPE: EMERGENCY RELIEF

NPDES NO.
062

Section 4

Pumping Stations



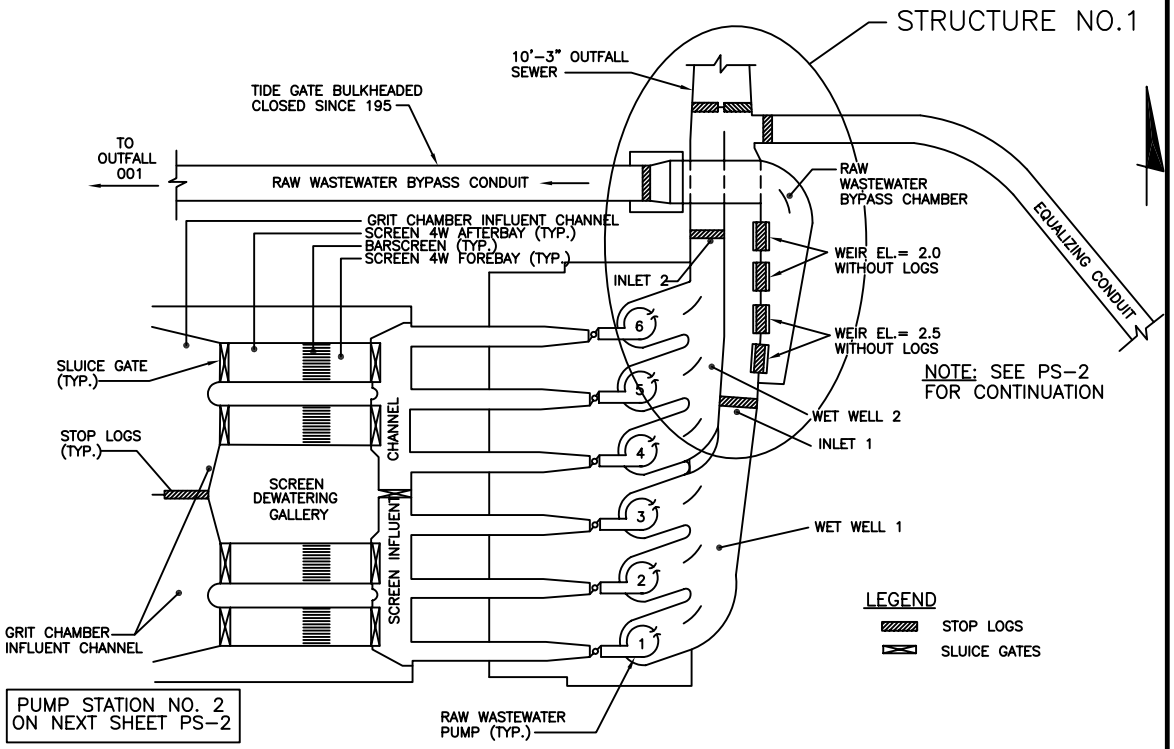
WASTEWATER TREATMENT PLANT SCHEMATIC

NOT TO SCALE

PUMPING STATION NO. 1 AND 2

P.S. NO. 1 has six Raw Wastewater Pumps. Three are rated at 80 mgd, two at 60 mgd and one at 40 mgd.

P.S. NO. 2 has nine Raw Wastewater Pumps each rated at 100 mgd these Pumping Stations handle all flow influent to the Wastewater Treatment Plant. There is an equalization conduit between the Wet Wells of the two Pumping Stations, and Relief Overflow upstream of each Wet Well. A portion of the flows pumped at Pump Station No. 2 can be limited to primary treatment under high flow conditions. Pump Station No. 1 serves the west side processes of the Plant and Pump Station No. 2 serves the east side processes.



PUMP STATION – PLAN

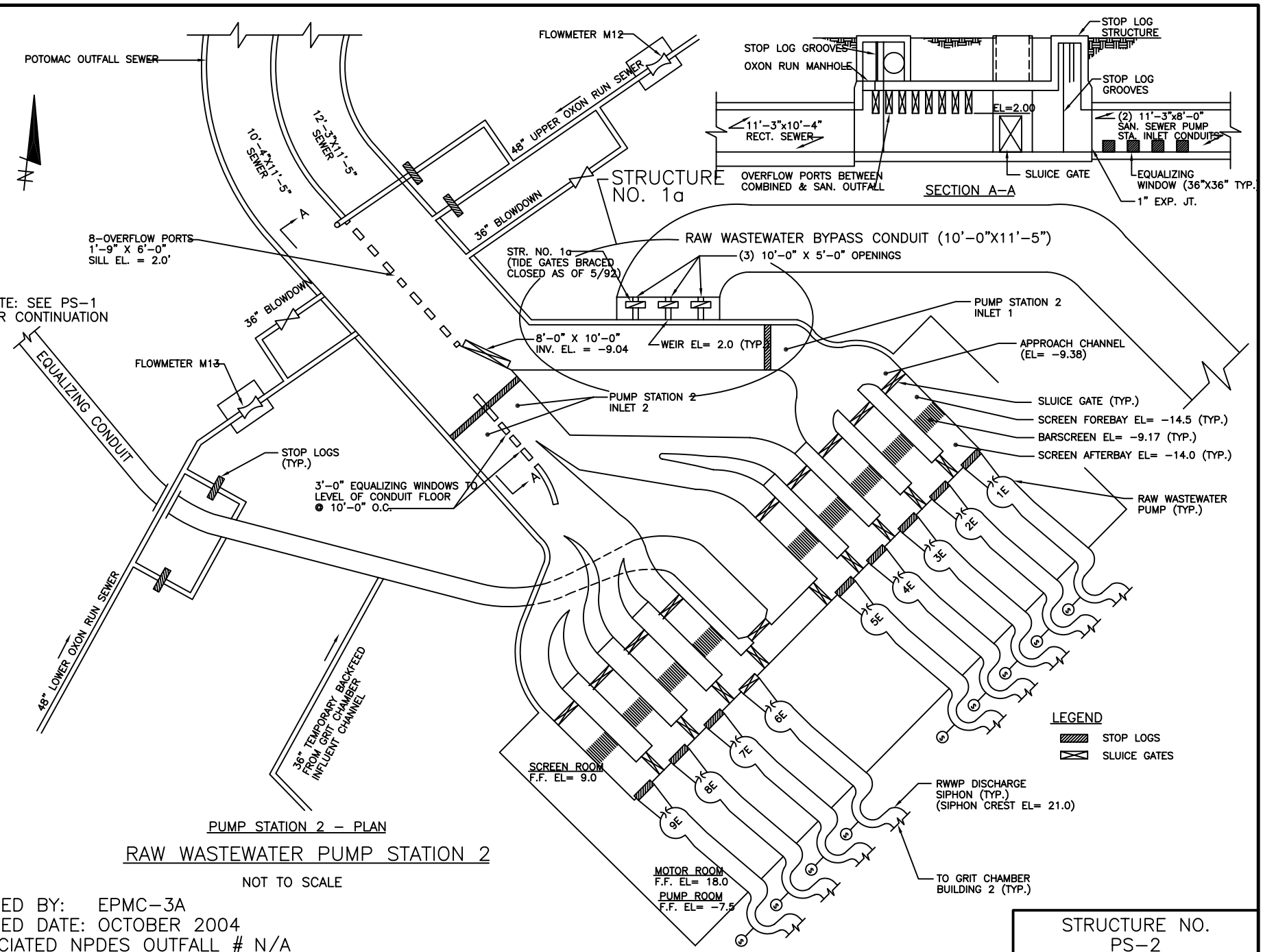
RAW WASTEWATER PUMP STATION NO.1

NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
PS–1

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS–01 1:1 04/20/04 15:15 GH–G



PUMP STATION 2 – PLAN

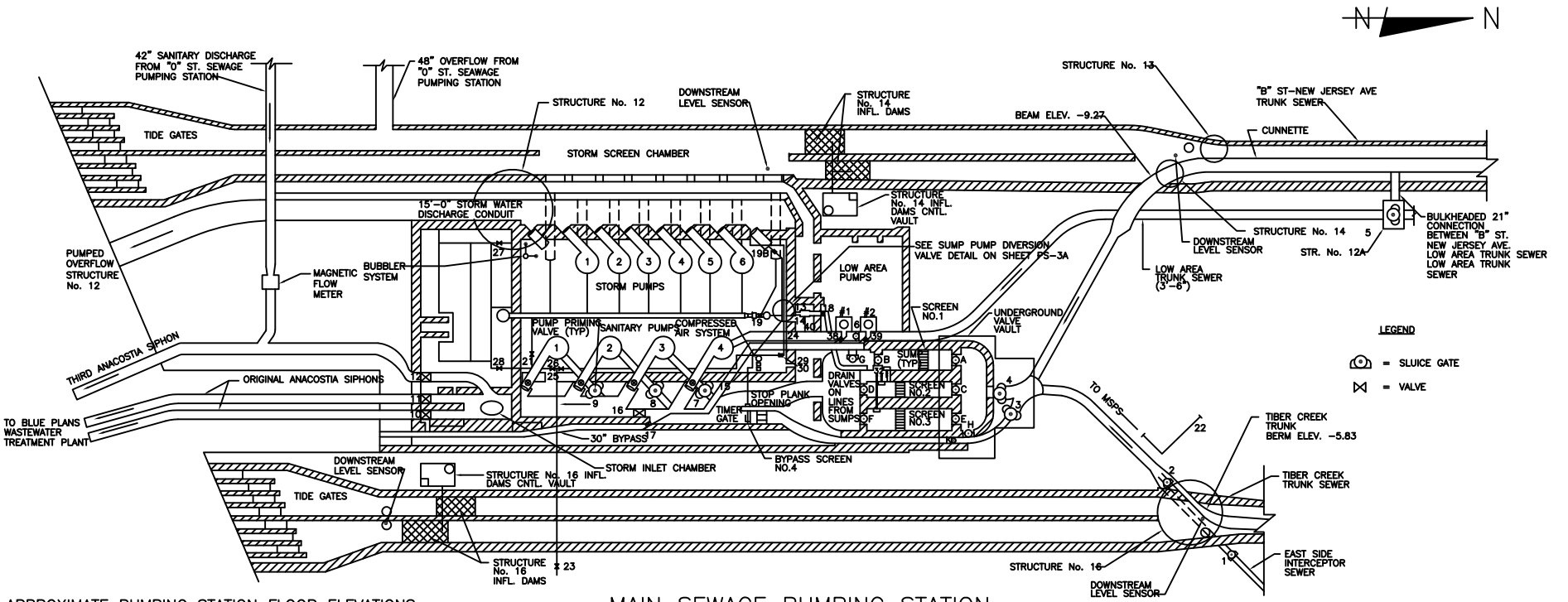
RAW WASTEWATER PUMP STATION 2

NOT TO SCALE

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO. PS-2

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS-02 1:1 04/20/04 15:21 GH-G



APPROXIMATE PUMPING STATION FLOOR ELEVATIONS

SANITARY PUMP AREA FLOOR	-13.00
STORMWATER PUMP AREA FLOOR	-7.00
SCREEN ROOM OPERATING FLOOR	0.00
PUMP MOTOR FLOOR	10.50

SEE STRUCTURES BOOK FOR ELEVATIONS OF NEARBY SEWER STRUCTURES

MAIN SEWAGE PUMPING STATION

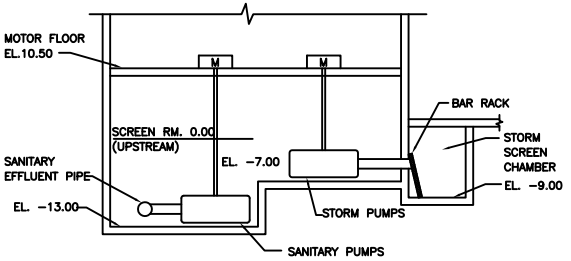
NOT TO SCALE

(FOR ENLARGEMENT OF MAIN PUMPING ROOM AREA SEE DRAWING PS-3A)

VALVE SCHEDULE

NUMBER	SIZE	TYPE	CONTROL FUNCTION	OPERATOR TYPE (L=LOCAL, R=REMOTE)
1	48"	SLUICE GATE	EAST SIDE INTERCEPTOR	L
2	48"	SLUICE GATE	TIMBER CREEK TRUNK SEWER	R
3	84"	SLUICE GATE	SCREEN CHAMBER BYPASS	R
4	84"	SLUICE GATE	SCREEN CHAMBER INFLUENT	R
5	42"	SLUICE GATE	LOW AREA TRUNK SEWER	L
6	24"	SLUICE GATE	LOW AREA CONTROL TO PUMP #4	L
7	66"	SLUICE GATE	SANITARY PUMP #3 SUCTION	R
8	66"	SLUICE GATE	SANITARY PUMP #2 SUCTION	R
9	66"	SLUICE GATE	SANITARY PUMP #1 SUCTION	R
10	60"	VALVE	EAST DISCHARGE SIPHON	L
11	60"	VALVE	WEST DISCHARGE SIPHON	L
12	60"	VALVE	THIRD DISCHARGE SIPHON	L
13	6"	VALVE	SUMP PUMP #1 DISCHARGE	L
14	6"	VALVE	SUMP PUMP #2 DISCHARGE	L
15	30"	VALVE	LOW AREA PUMPS DISCHARGE	L
16	48"	VALVE	SANITARY PUMP #4 DISCHARGE- SIPHON CHAMBER	L
17	30"	VALVE	SANITARY PUMP #4 DISCHARGE- RIVER	L
18	18"	VALVE	SCREEN CHANNELS SUMP DRAIN	L
19	12"	VALVE	PUMP ROOM DRAINS TO SUMP	L
19A	6"	VALVE	PUMP ROOM DRAINS SUMP PUMP DISCHARGE	L
19B	6"	VALVE	SUMP PUMPS DISCHARGE	L
21	6"	VALVE	DRAIN, SIPHON CHAMBER TO SUMP	L
22	6"	VALVE	WATER MAIN, NORTH SIDE	L
23	6"	VALVE	WATER MAIN, EAST SIDE	L
24	6"	VALVE	WATER SUPPLY FROM NORTH MAIN	L
25	6"	VALVE	WATER SUPPLY FROM EAST MAIN	L
26	6"	VALVE	WATER SUPPLY FROM EAST MAIN	L
27	6"	VALVE	WATER SUPPLY, SOUTH BASEMENT	L
28	6"	VALVE	WATER SUPPLY, SOUTH BASEMENT	L
29	6"	VALVE	WATER SUPPLY, EAST TO NORTH MAIN	L
30	4"	VALVE	WATER SUPPLY, NORTH END OF BUILDING	L
38	8"	VALVE	LOW AREA PUMP #1 DISCHARGE	L
39	8"	SLUICE GATE	LOW AREA PUMP #2 DISCHARGE	L
40	12"	SLUICE GATE	SAN. PUMP #4 SUCTION SIDE DRAIN TO SUMP	L
41	8"	VALVE	SUMP PUMP DISCHARGE ISOLATION	L
42	8"	VALVE	SUMP PUMP DISCHARGE DIVERSION AWAY FROM STORMWATER DISCHARGE	L
43	8"	VALVE	VALVE FOR POTERTIAL FUTURE CONNECTION TO PUMP ROOM SUMP AT VALVE 19	L

NUMBER/ LETTER	SIZE	TYPE	CONTROL FUNCTION	OPERATOR TYPE (L=LOCAL, R=REMOTE)
A	72" X 72"	SLUICE GATE	SCREEN #1 INFLUENT	R
B	96" X 72"	SLUICE GATE	SCREEN #1 EFFLUENT	R
C	72" X 72"	SLUICE GATE	SCREEN #2 INFLUENT	R
D	96" X 72"	SLUICE GATE	SCREEN #2 EFFLUENT	R
E	72" X 72"	SLUICE GATE	SCREEN #3 INFLUENT	R
F	96" X 72"	SLUICE GATE	SCREEN #3 EFFLUENT	R
G	48" X 48"	SLUICE GATE	SCREEN CHAMBER DRAIN TO PUMP #4	R
H	72" X 72"	SLUICE GATE	SCREEN CHAMBER CONNECTION TO BYPASS	R
K	72" X 72"	SLUICE GATE	BYPASS CHANNEL	R



SCHEMATIC ELEVATION (LOOKING SOUTH)

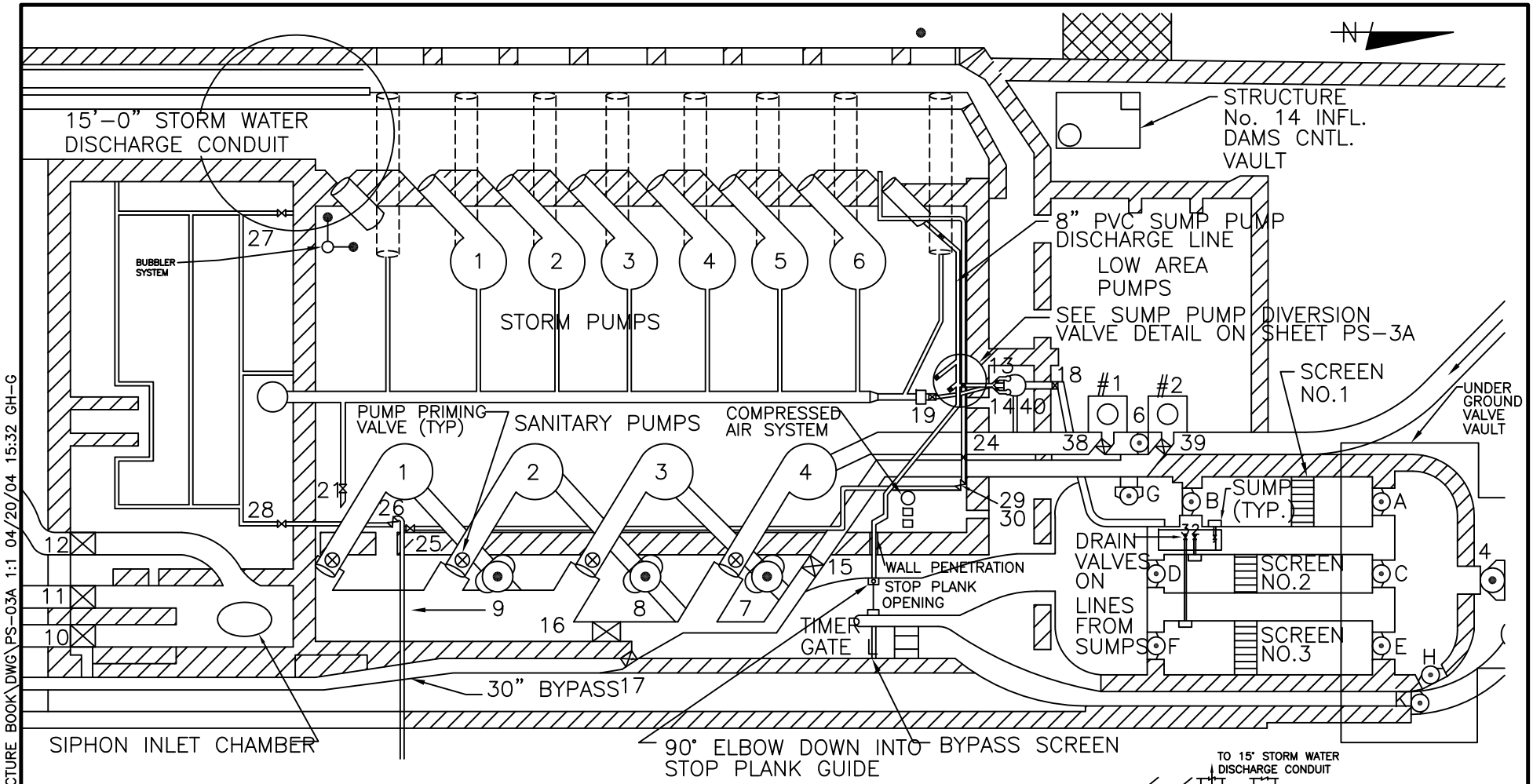
NOTES:

Main sewage pumping station handles combined flow from most of the central city. It is equipped with four sanitary pumps rated at 90 MGD each and six storm pumps, each rated at 80 mgd.

REVISED BY: PROGRAM CONSULTANTS ORGANIZATION
REVISED DATE: FEBRUARY 2012
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
PS-3

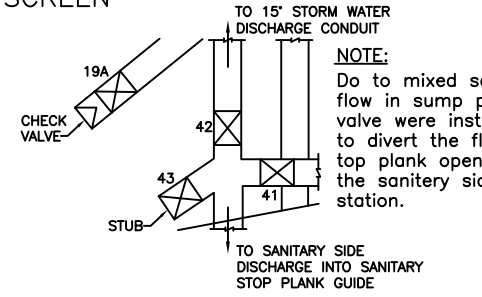
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS-03 1:1 04/20/04 15:23 GH-G



MAIN SEWAGE PUMPING STATION – DETAIL OF PUMPING ROOM

NOT TO SCALE

NOTE:
This drawing is provided for further clarification to the pumping room of the Main Sewage Pump Station.



NOTE:
Do to mixed sanitary flow in sump pump, these valve were installed to to divert the flow into the top plank openings on the sanitery side of the station.

SUMP PUMP DIVERSION VALVE DETAIL

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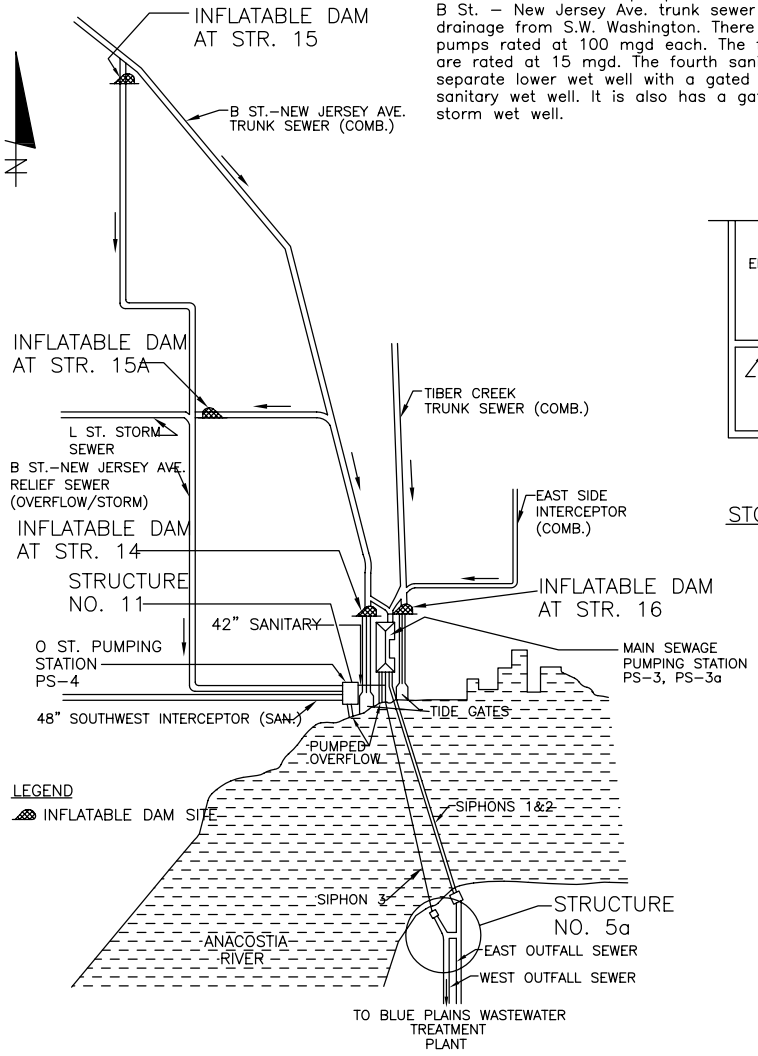
REVISED DATE: FEBRUARY 2012
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
PS-3a

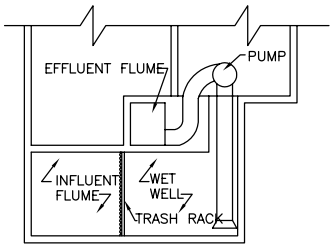
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS-03A 1:1 04/20/04 15:32 GH-G

O STREET SEWAGE PUMPING STATION

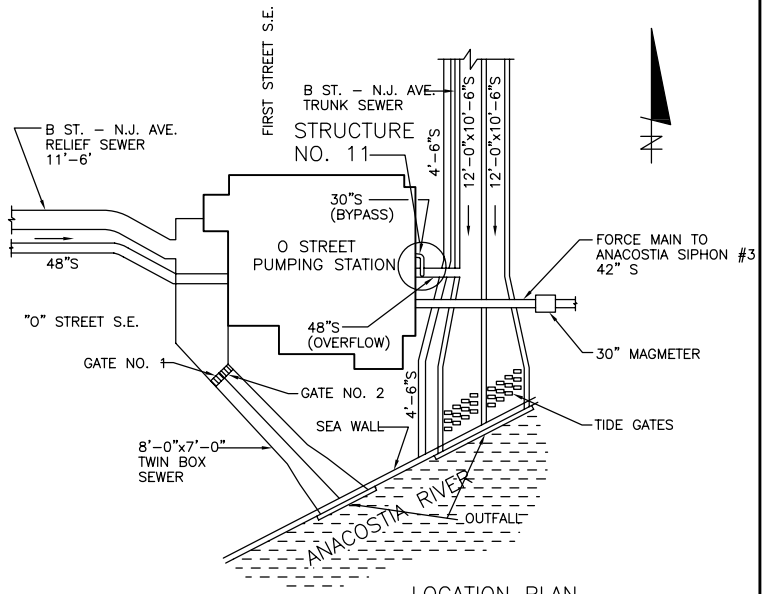
The pumping station is divided into a "sanitary" side, which pumps separate sanitary sewage from S.W. Washington, and a "storm" side, which pumps combined overflow from the B St. – New Jersey Ave. trunk sewer and separate storm drainage from S.W. Washington. There are six stormwater pumps rated at 100 mgd each. The four sanitary pumps are rated at 15 mgd. The fourth sanitary pump is in a separate lower wet well with a gated connection to the main sanitary wet well. It is also has a gated connection with the storm wet well.



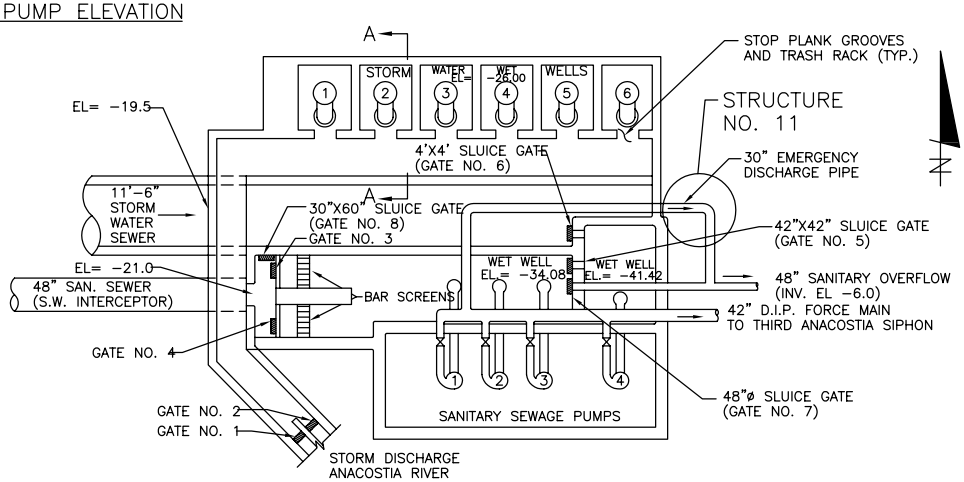
SCHEMATIC FLOW PLAN



SECTION A–A
STORM PUMP ELEVATION



LOCATION PLAN



PUMP STATION – PLAN

"O" STREET PUMPING STATION

NOT TO SCALE

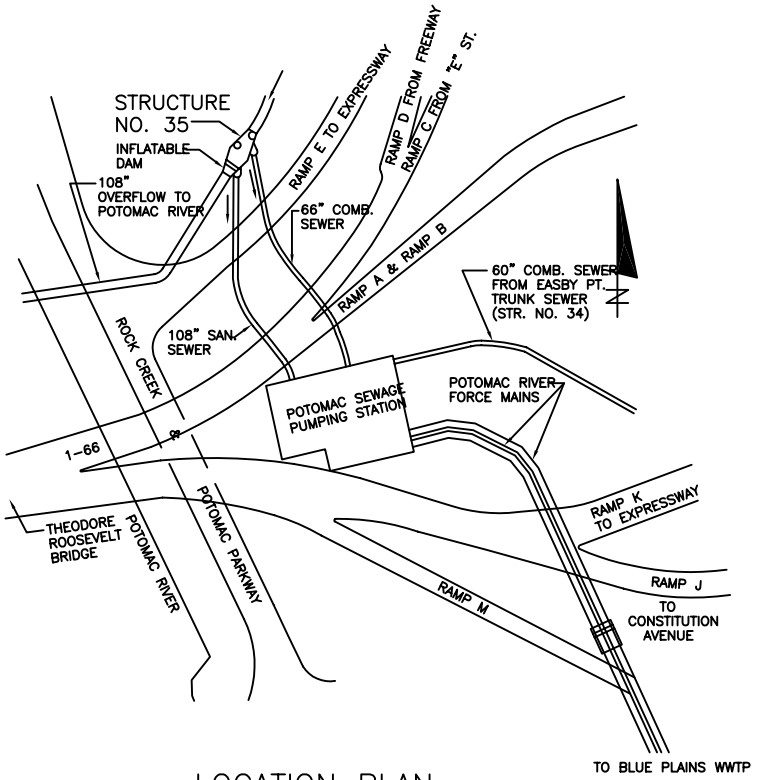
REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
PS–4

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS–04 1:1 04/20/04 15:38 GH–G

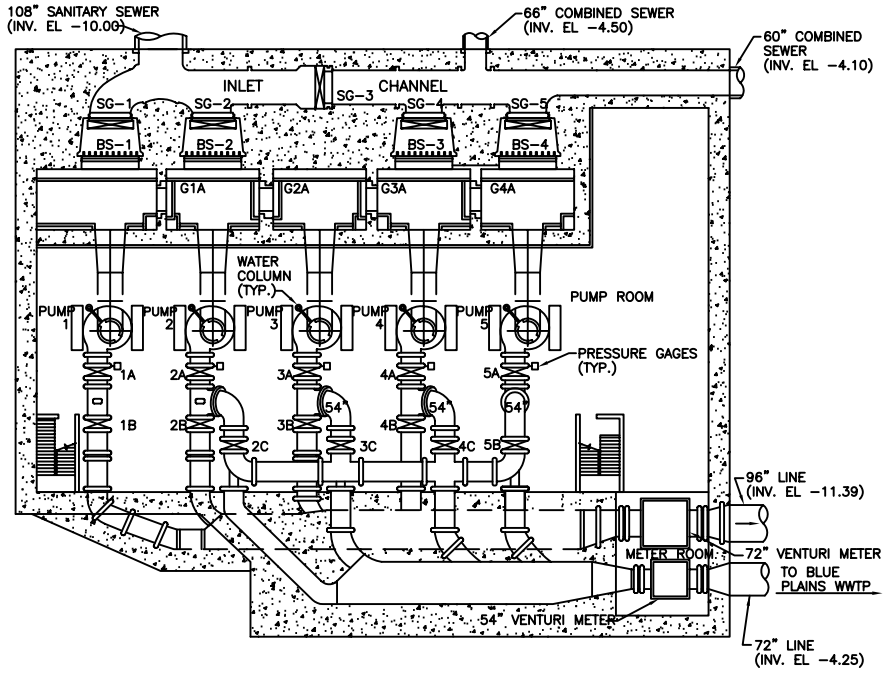
POTOMAC SEWAGE PUMPING STATION

Station receives Sanitary flow from the 108–inch Potomac Interceptor Relief Sewer and Combined Flow from the 66–inch East Rock Creek Diversion Sewer and the 60–inch Easby Point Trunk Sewer. The Station is equipped with five pumps, with a total Station capacity of 460 mgd with one pump in reserve. The Station discharges through two 96–inch and 72–inch Force Mains to the Blue Plains Waste Water Treatment Plant.



LOCATION PLAN
NOT TO SCALE

LEGEND:
SG = SLUICE GATE
BS = BAR SCREEN
= GATE VALVE AND. NO.



PUMP STATION – PLAN

POTOMAC SEWAGE PUMPING STATION

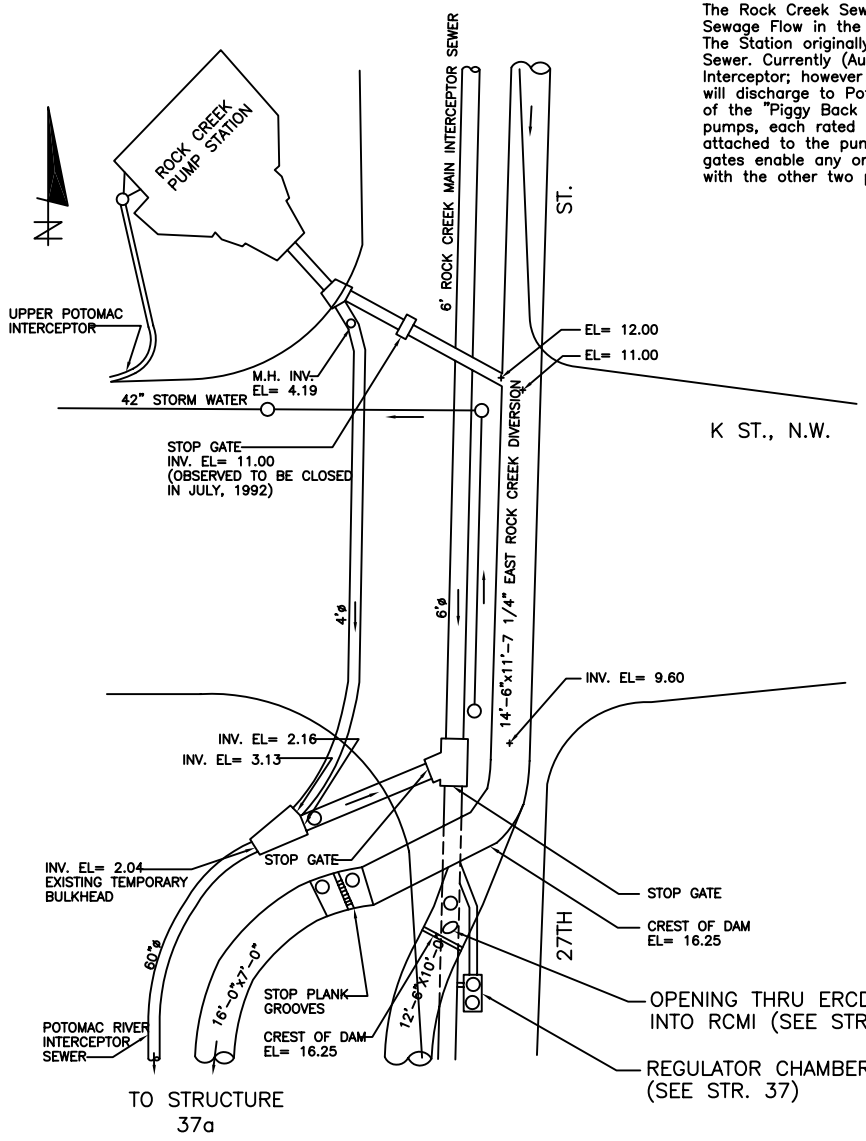
NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

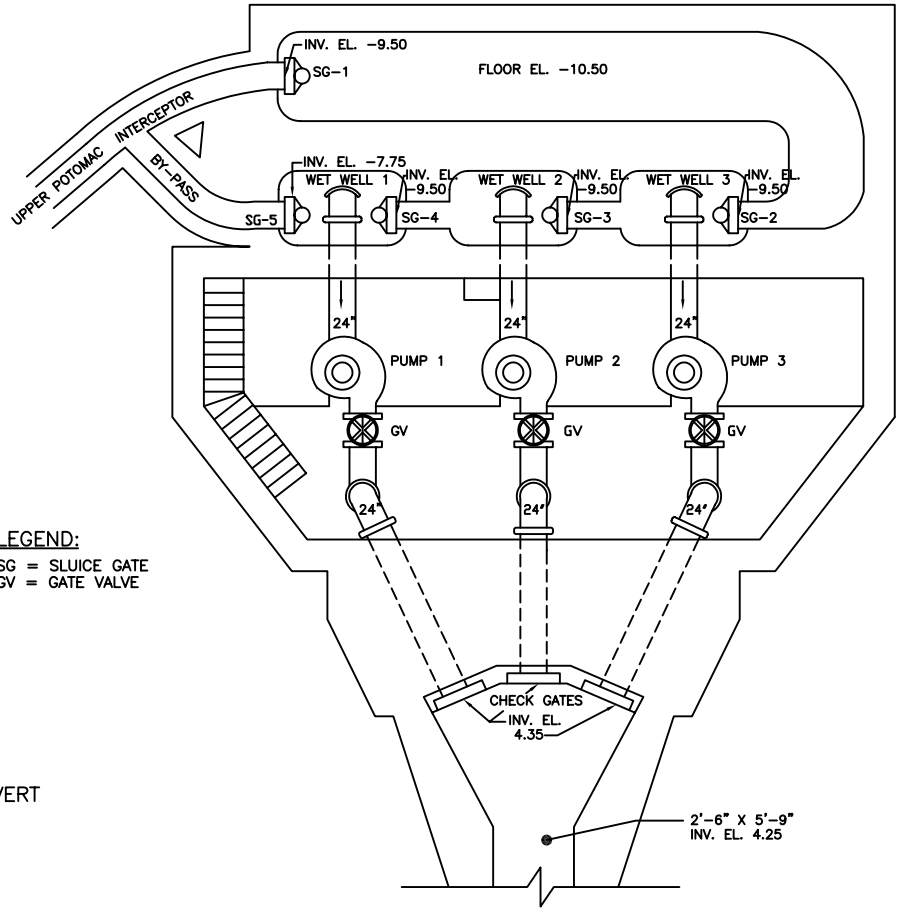
STRUCTURE NO.
PS–5

ROCK CREEK SEWAGE PUMPING STATION

The Rock Creek Sewage Pumping Station lifts Combined Sewage Flow in the Potomac River Interceptor Sewer. The Station originally discharged into the East Rock Creek Diversion Sewer. Currently (Aug., 1992). it discharges into the Rock Creek Main Interceptor; however after removal of existing temporary bulkhead it will discharge to Potomac River Interceptor Sewer (lower level of the "Piggy Back Sewer") The Station is equipped with three pumps, each rated at 20 mgd. Flow is measured by transducers attached to the pumps discharge. The Stations internal sluice gates enable any one pump to be removed from service, with the other two pumps operational.



LOCATION PLAN
NOT TO SCALE



PUMP STATION – PLAN

LEGEND:

SG = SLUICE GATE
GV = GATE VALVE

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

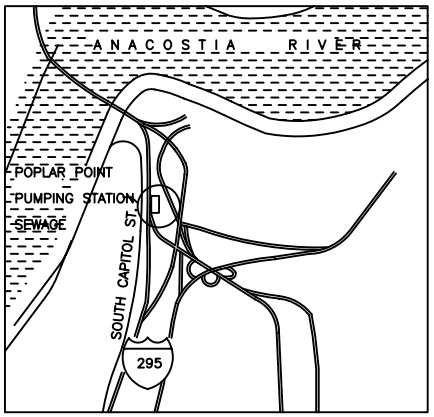
ROCK CREEK SEWAGE PUMPING STATION
NOT TO SCALE

STRUCTURE NO.
PS-6

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS-06 1:1 04/21/04 13:13 GH-G

POPLAR POINT SEWAGE PUMPING STATION

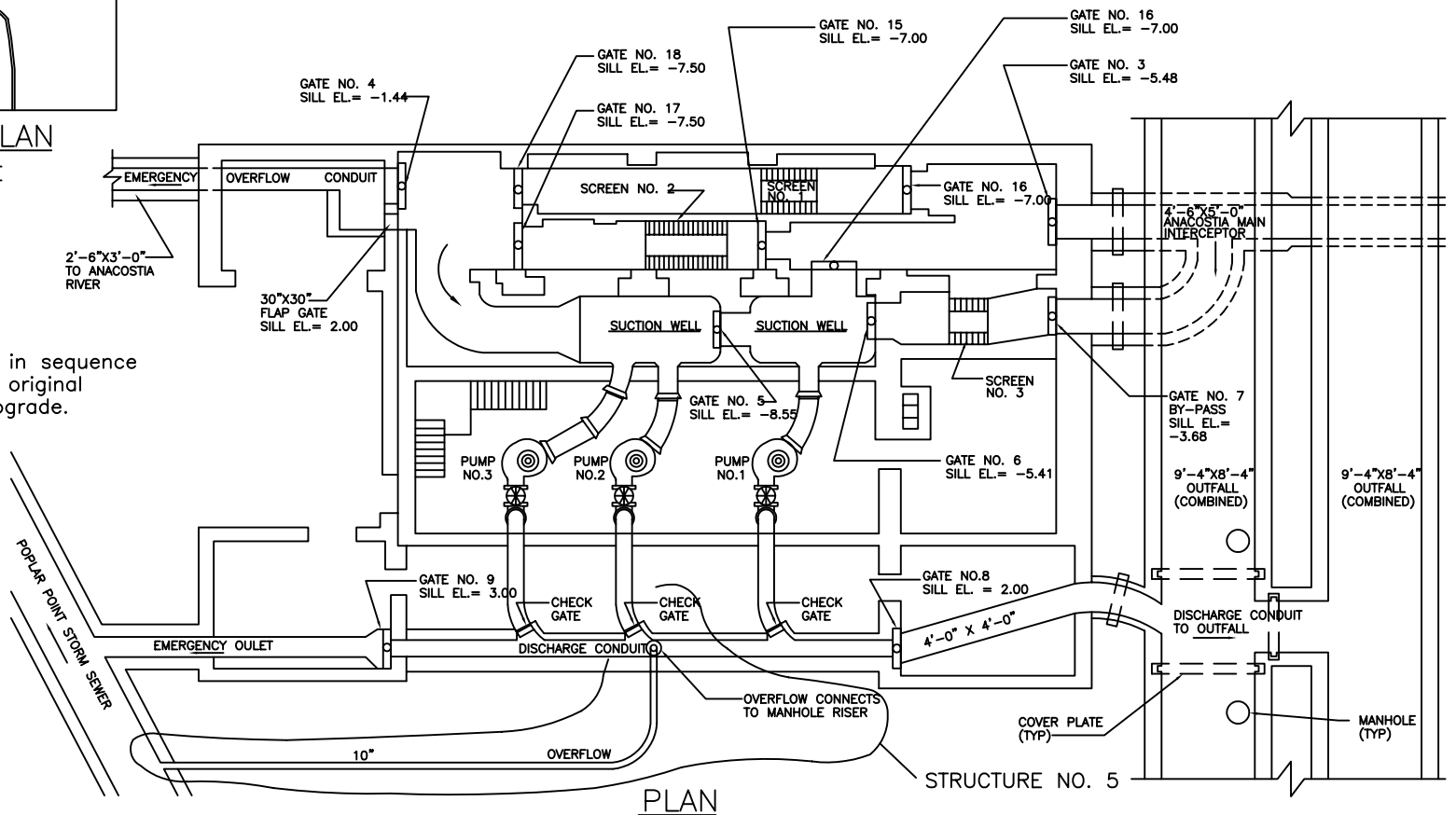
This Pumping Station receives Sanitary Flows through the Anacostia Main Interceptor and discharges through a connection to the adjacent twin Sanitary Outfall Sewers to the Blue Plains WWTP. The Station is equipped with three pumps, each rated at 15,000 gpm.



LOCATION PLAN

NOT TO SCALE

Note: Gate numbers not in sequence due to removal of original gates in station upgrade.



PLAN

POPLAR POINT SEWAGE PUMPING STATION

NOT TO SCALE

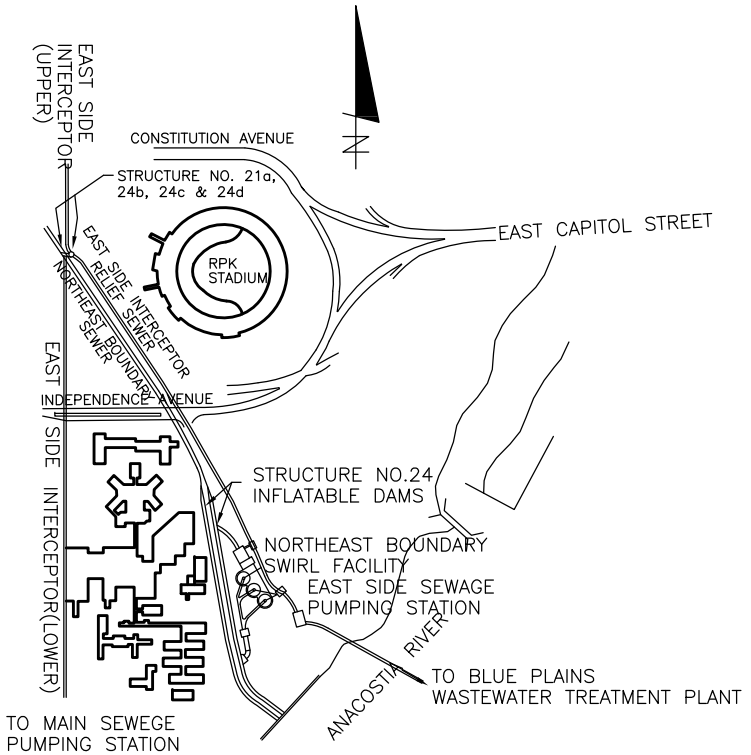
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
PS-7

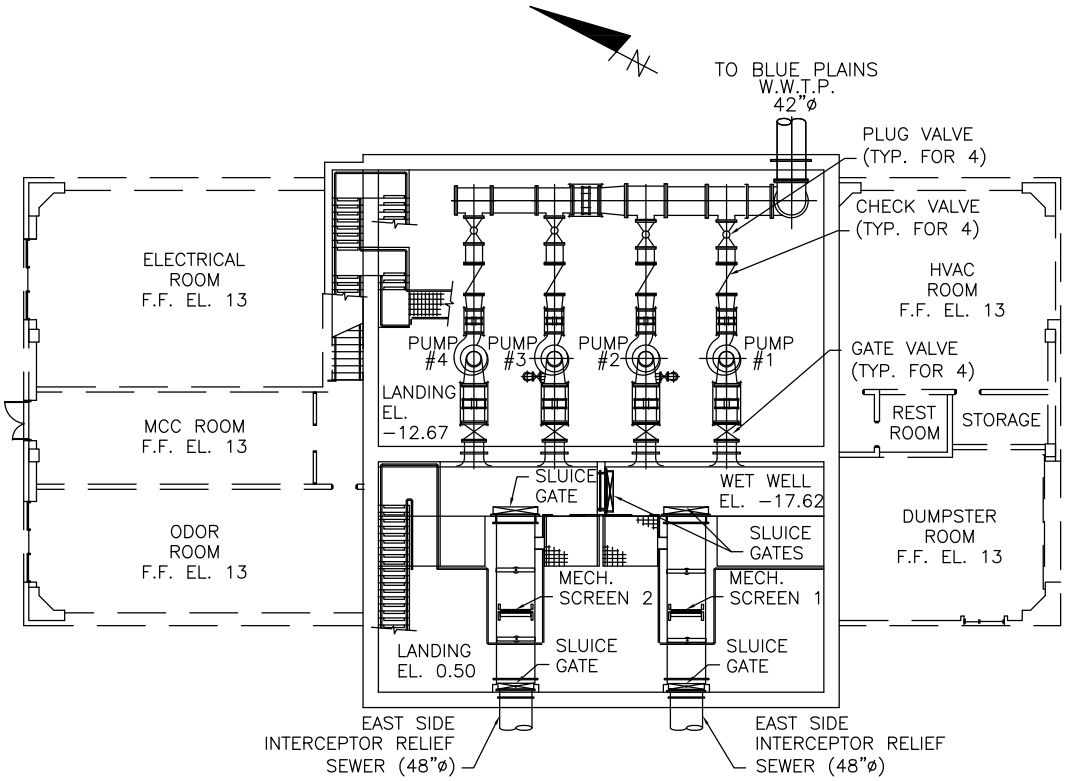
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS-07 1:1 04/21/04 13:15 GH-G

EASTSIDE SEWAGE PUMPING STATION

The Eastside Sewage Pumping Station receives Sanitary Flow from the Eastside Interceptor Relief Sewer, and Wet Weather Combined Flow from the Northeast Boundary Sewer via the Northeast Boundary Swirl Facility. It is equiped with four 15–mgd pumps. It currently discharges to the Anacostia Force Main and Gravity Sewer.



LOCATION PLAN–INFLATABLE DAMS ON NORTHEAST BOUNDARY SEWER OVERFLOW



PLAN

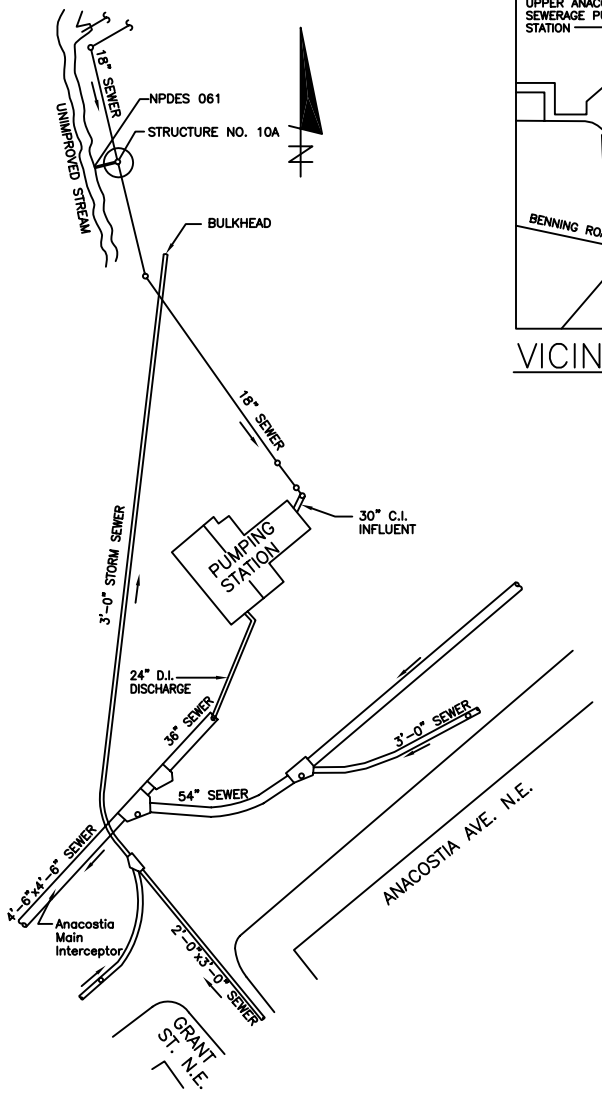
EASTSIDE SEWAGE PUMPING STATION

NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: MARCH 2010
ASSOCIATED NPDES OUTFALL # N/A

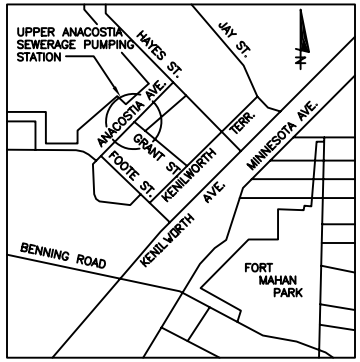
STRUCTURE NO.
PS–8

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS–08 1:1 04/21/04 13:23 GH–G



LOCATION PLAN

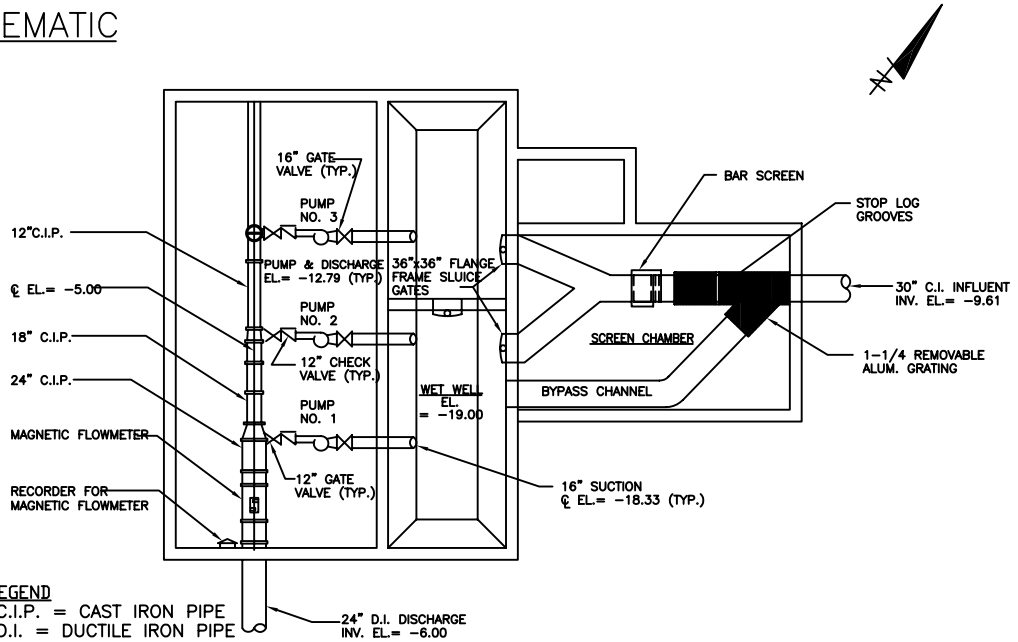
NOT TO SCALE



VICINITY SCHEMATIC

UPPER ANACOSTIA SEWAGE PUMPING STATION

This pumping station receives sanitary flows through an 18" sewer from the upper Anacostia area and discharges into the Anacostia Main Interceptor, which is subsequently repumped at the Popular Point sewage Pumping Station enroute to the Blue Plains Waste Water Treatment Plant. There are three sanitary pumps, each of which is rated at a capacity of 5 mgd. For location and detail of overflow structure, see Structure No. 10a.



PUMPING STATION – PLAN

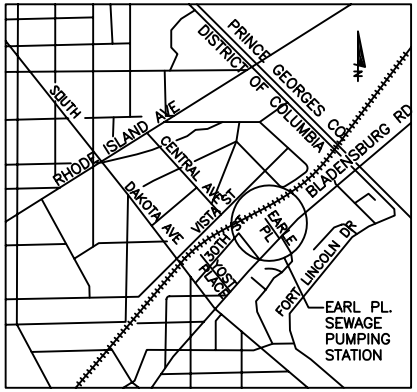
UPPER ANACOSTIA SEWAGE PUMPING STATION

NOT TO SCALE

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
PS-9

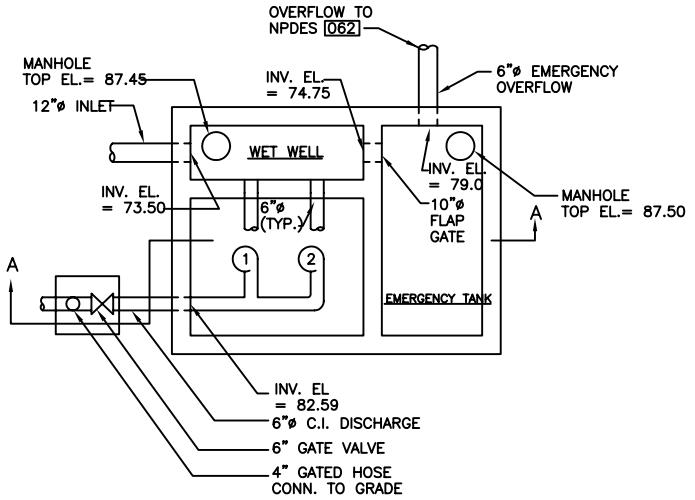
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS-09



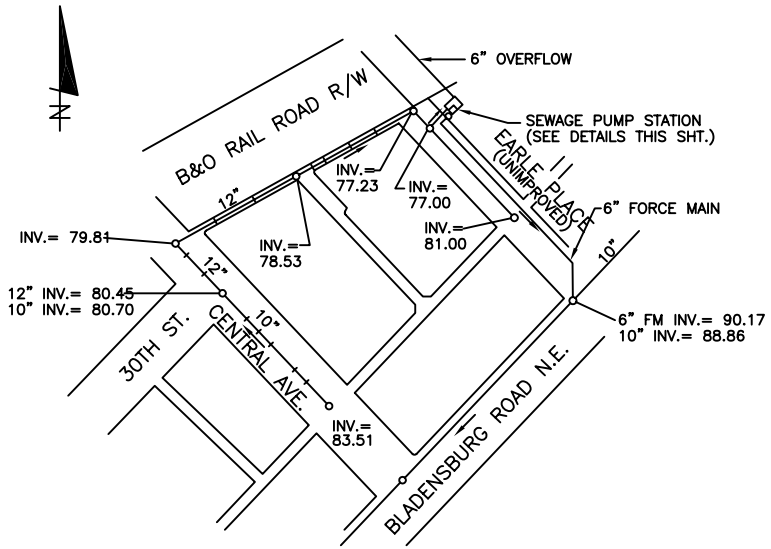
VICINITY SCHEMATIC

EARL PLACE SEWAGE PUMPING STATION

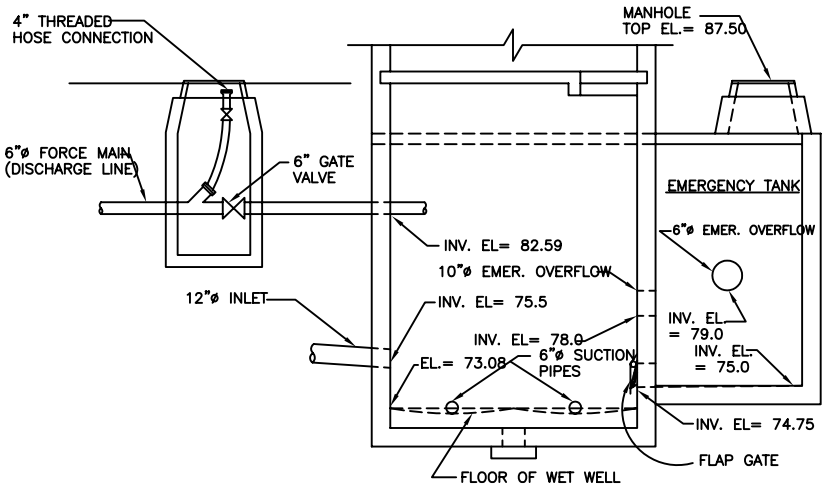
This Pump Station is equipped with two 300 gpm pumps. The 6" discharge line is equipped with a 4" threaded hose connection for flushing. There is an Emergency Overflow from the Wet Well, first to an emergency tank, and then through a 6" Emergency Overflow line to an adjacent ditch.



PLAN



LOCATION PLAN
NOT TO SCALE



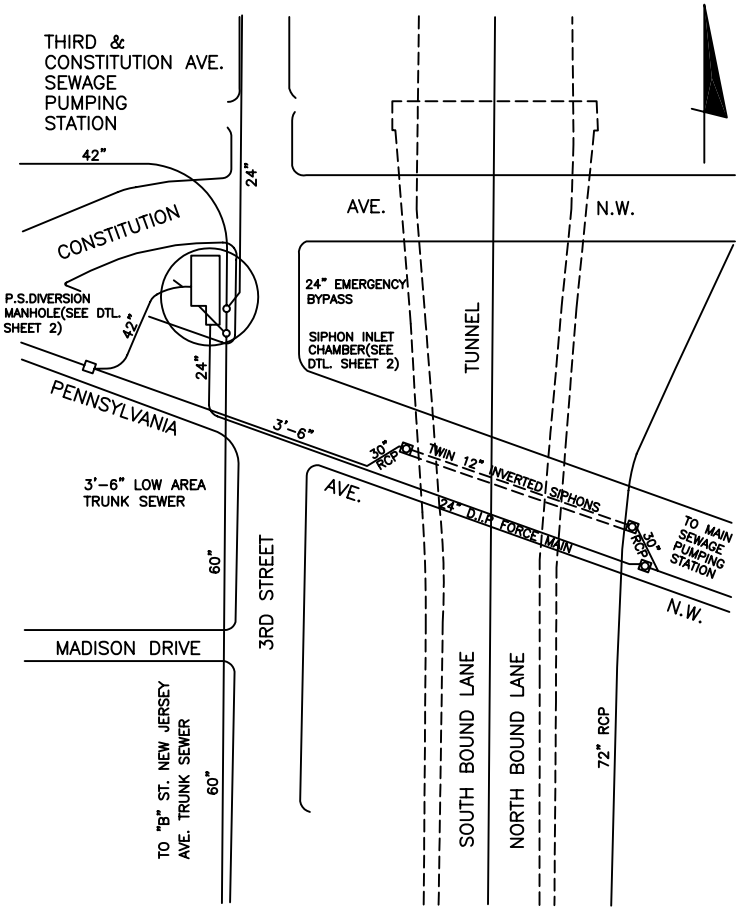
SECTION A–A

EARL PL. SEWAGE PUMPING STATION
NOT TO SCALE

REVISED BY: EPMC–3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
PS–10

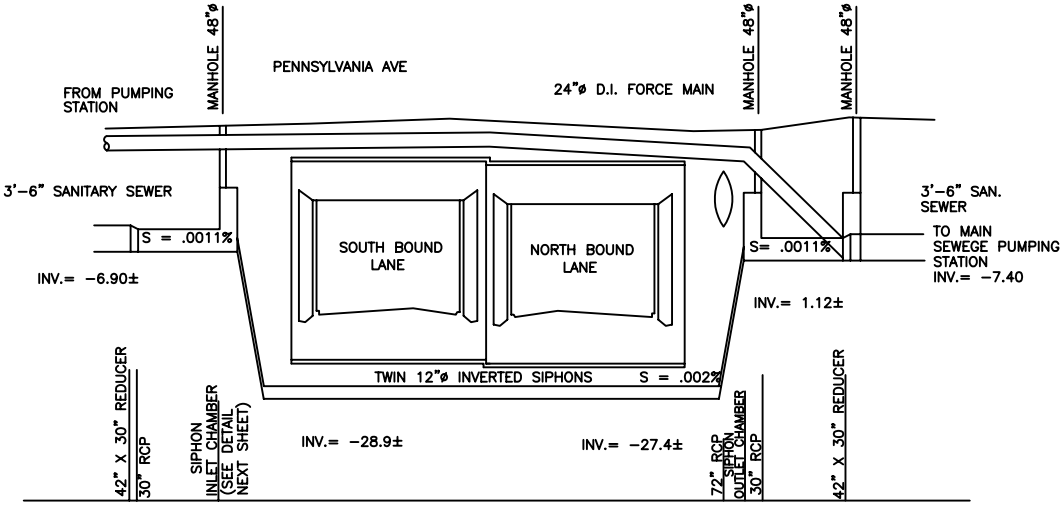
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS–10 1:1 04/21/04 13:26 GH–G



LOCATION PLAN
NOT TO SCALE

3rd AND CONSTITUTION AVENUE N.W SEWGAGE PUMPING STATION

This Pumping Station is designed to lift sewage in the low area Trunk Sewer, in anticipation of future increased flows in this sewer. This sewer currently functions as a Gravity Sewer with the Pumping Station only used for maintenance conditions. This Pumping Station discharges to a 24"Force Main over the route 395 highway tunnel, while the Gravity Sewer crosses beneath the tunnel via a twin inverted siphon. Flow in the Gravity Sewer must discharge over a weir at the Pump Station Diversion Manhole. The Pumping Station is equipped with two 1000 gpm pumps and one 3450 gpm pump. There are provisions for three additionl pumps. There is 24" Emergency By-pass Overflow from the discharge Force Main which would overflow at elev. 0.0. This By-pass discharges to a tributary to the B St. - New Jersey Avenue Trunk Sewer.



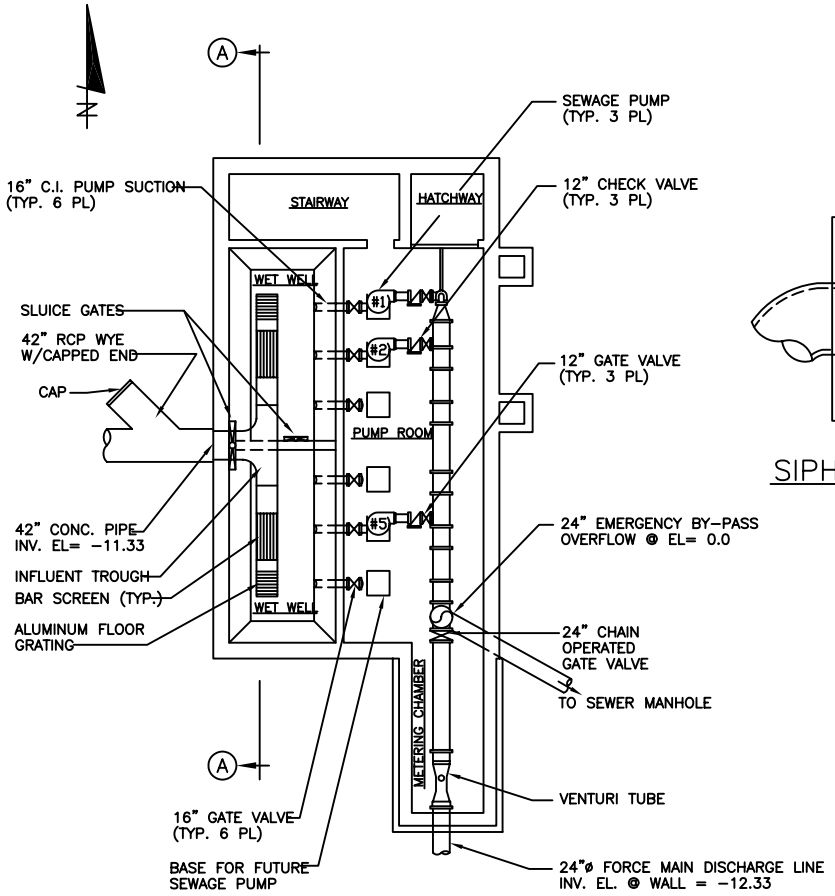
PROFILE

THIRD & CONSTITUTION AVENUE SEWEGE PUMPING STATION
NOT TO SCALE

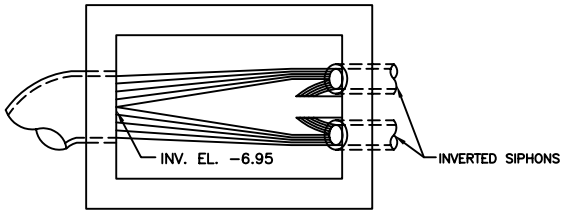
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
PS-11, SH-1

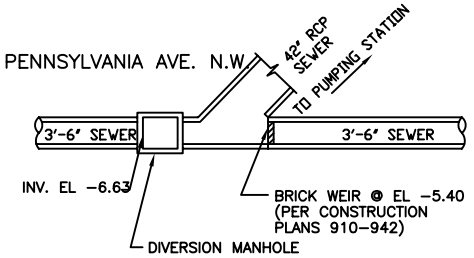
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS-11SH-1 1:1 04/21/04 13:30 GH-G



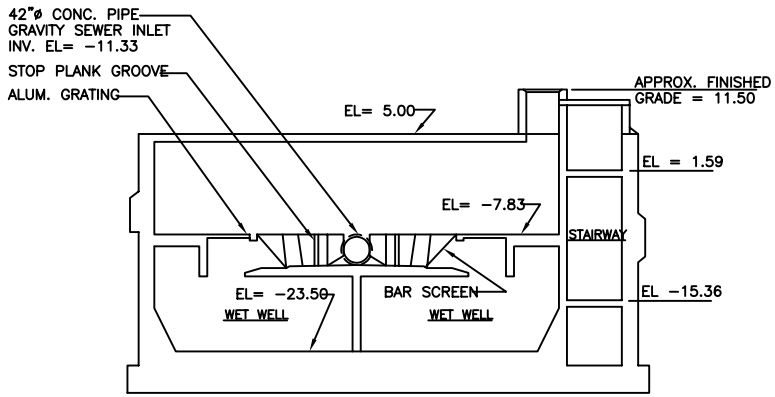
PLAN



SIPHON INLET CHAMBER – PLAN



DIVERSION MANHOLE – PLAN



SECTION A–A

THIRD & CONSTITUTION AVENUE SEWEGE PUMPING STATION

NOT TO SCALE

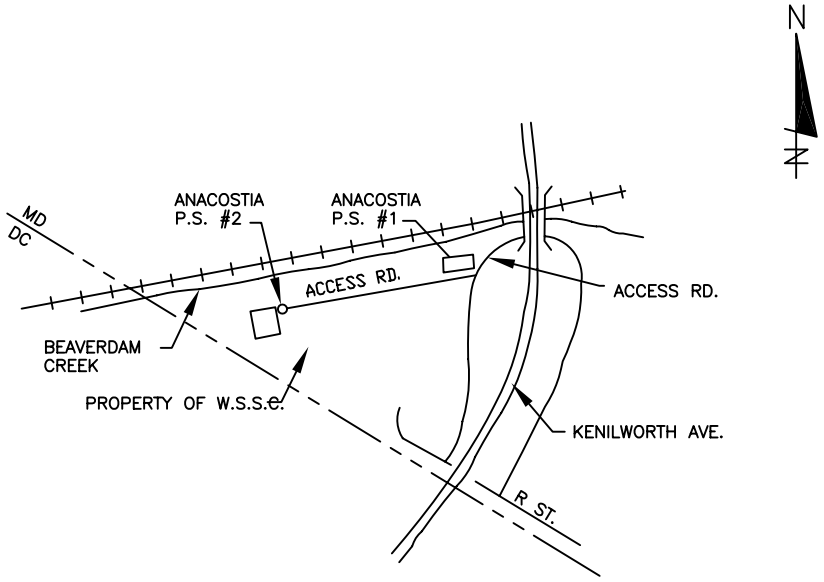
REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
PS-11, SH-2

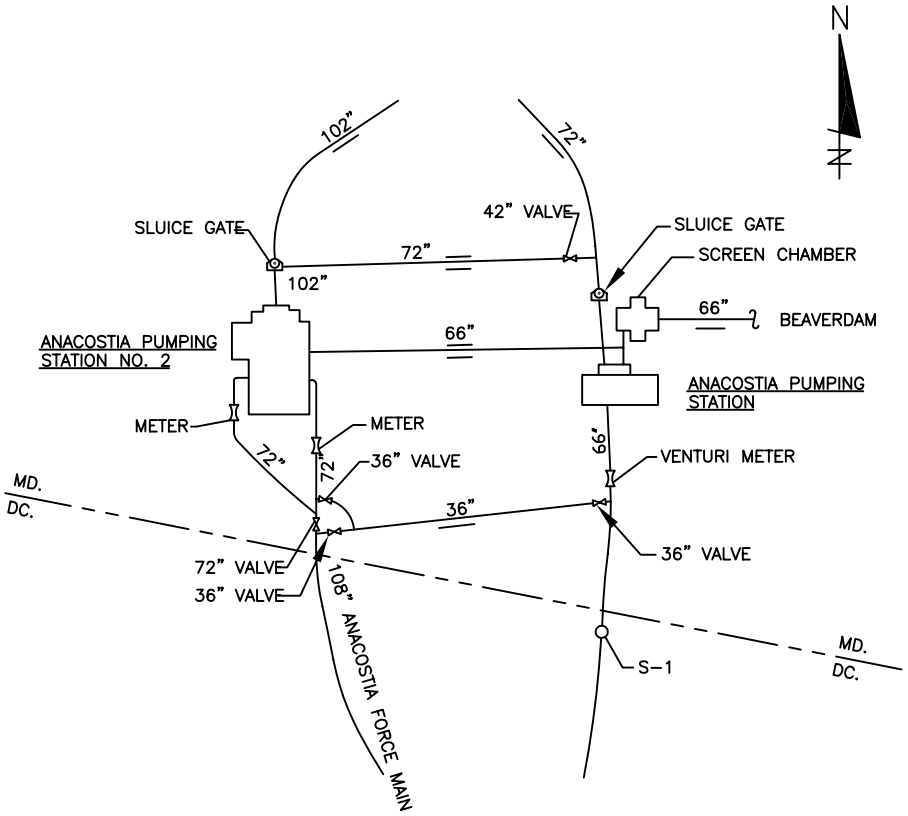
FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS-11SH-2 1:1 04/21/04 13:32 GH-G

WSSC ANACOSTIA SEWAGE PUMPING STATIONS

Anacostia Sewage Pumping Stations are owned and operated by Washington Suburban Sanitary Comission. Flows can be diverted to either Pumping Station through interconnecting 66" and 72" pipes. Both stations have external meters for measuring sanitary flows to the D.C. system. Discharge is primarly through 108" Anacostia Force Main.



LOCATION PLAN
NOT TO SCALE



SCHEMATIC FLOW PLAN

WSSC ANACOSTIA SEWAGE PUMPING STATION
NOT TO SCALE

REVISED BY: EPMC-3A
REVISED DATE: OCTOBER 2004
ASSOCIATED NPDES OUTFALL # N/A

STRUCTURE NO.
PS-12

FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\PS-01-02 1:1 04/20/04 15:19 GH-G

Combined Sewer System Structures Book

DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
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APPENDIX 2-2

Regulator Structure Capacities

Regulator Structure Capacities

Note: The capacities of the diversion structures vary depending on water levels in the combined sewer and the downstream interceptor. As result, the capacities of the diversion structures were determined by reviewing model results developed for the LTCP.

Struct No.	Location	Capacity (mgd)
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	Overflow , no diversion to interceptor
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	Overflow , no diversion to interceptor
5	Poplar Point Pumping Station	Overflow , no diversion to interceptor
6	Chicago Street and Railroad Ave, SE	6.5
7	W Street. and Railroad Ave, SE	0.75
8	Good Hope Rd, west of Nichols Ave, SE	Overflow , no diversion to interceptor
9	13th Street and Ridge Place, SE	4.3
11	"O" Street Pumping Station	Overflow , no diversion to interceptor
12	Storm Pump Discharge at Main Pumping Station	Overflow , no diversion to interceptor
13	2nd Street, 300 ft. north of N Place, SE	2
14	2nd Street, 250 ft. north of N Place, SE	120
15	South Capitol and E Streets	Overflow , no diversion to interceptor
15a	Half and L Streets, SE	Overflow , no diversion to interceptor
15b	South Capitol and I Streets	4.5
15c	South Capitol and I Streets	4.5
16	North of Main Sewage Pumping Station	190
17	4th and N Streets, SE, Both Extended	2
17a	K Street between 6th Street and 7th Street, SE	13
18	6th and M Streets, SE	7.5
19	9th and M Streets, SE	1.1
19a	9th and M Streets, SE	0.18
20	12th and M Streets, SE	9.75
20a	12th and M Streets, SE	9.5
21	14th and M Streets, SE	24
22a	Barney Circle and Pennsylvania Ave, SE	0.25
22b	Barney Circle and Pennsylvania Ave, SE	0.25
22c	Barney Circle and Pennsylvania Ave, SE	0.25
22d	Kentucky Ave and Potomac Street, SE	6.5
22e	14th Street and Kentucky Ave, SE	12.5
23	Independence Ave, 21st Street, SE, Extended	5.5
24a	East Capitol St, west of RFK stadium	80
28	21st and Constitution Ave, NW	5
29	22nd Street, between Constitution Ave and C St, NW	20.5
30	17th and D Streets, NW	6.75
31	15th Street and Pennsylvania Ave, NW	4
33	10th and F Streets, NW	7
34	23rd Street, north of Constitution Ave, NW	45
34a	23rd Street near C Street, NW	17
35	Northeast of Roosevelt Bridge, NW	165
36	27th and I Streets, NW	165
36a	New Hampshire Ave and Eye Street, NW	2.6
36b	19th and L Streets, NW	Overflow , no diversion to interceptor
36h	18th and M Streets, NW	560, 52
37	27th and Eye Streets, NW	50
38	29th and K Streets, NW	26
38a	30th Street, south of K Street, NW	26
39a	30th and K Streets, NW	2
39b	30th and K Streets, NW	1
41b	31st and K Streets, NW	2.2
41c	31st and K Streets, NW	0.1
42	Wisconsin Ave and K Street, NW	2.1
43	Potomac and Water Streets, NW	Overflow , no diversion to interceptor
43a	Potomac and Water Streets, NW	7.5
44	Water Street, west of Potomac St, NW	Overflow , no diversion to interceptor
45	36th and M Streets, NW	2.5
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	11
47	38th Street and Reservoir Road, NW	7.5

Regulator Structure Capacities

Note: The capacities of the diversion structures vary depending on water levels in the combined sewer and the downstream interceptor. As result, the capacities of the diversion structures were determined by reviewing model results developed for the LTCP.

Struct No.	Location	Capacity (mgd)
47a	37th and T Streets, NW	7.5
47b	37th and T Streets, NW	Junction chamber, no diversion
47c	38th and W Streets, NW	2
49	Pennsylvania Ave, east side of Rock Creek, NW	0.25
50	26 and M Streets, NW	2.9
51	N Street Extended, west of 25th Street, NW	Overflow , no diversion to interceptor
52	22nd Street between M and N Streets, NW	2.9
52a	N Street between 22nd and 23rd Streets, NW	3
53	22nd and M Streets, NW	46
53a	22nd and M Streets, NW	32
53b	L Street between 21st Street and New Hampshire Ave, NW	19, 22
53c	L and 22nd Streets, NW	2
54	23rd and O Streets, NW	0.3
55	22nd Street, south of Q Street, NW	140
55a	22nd Street, south of Q Street, NW	650
56	23rd and Massachusetts Ave, NW	13
57	23rd Street, south of Q Street, NW	1.6
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, N	3.1
59	North of Belmont Rd, east of Kalorama Cir, NW	2.2
60	Connecticut Ave, east of Rock Creek, NW	14
61	Biltmore St, Extended, east of Rock Creek, NW	6.5
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	7
63	Harvard Street and Rock Creek Parkway, NW	9.5
64	Adams Mill Road, south of Irving Street, NW	21.5
65	Kenyon Street and Adams Mill Road, NW	1.5
65a	Kenyon Street and Adams Mill Road, NW	1.65
66	Adams Mill Road and Lamont Street, NW	6
67	Park Rd , south of Piney Branch Pkwy, NW	4.4
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	6.25
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	9.5
70	Piney Branch Parkway, west of 16th Street, NW	470
70i	5th and Quackenbos Streets, NW	Internal flow junction
71	28th Street, west of Rock Creek Parkway, NW	38
72	Olive Street Extended and Rock Creek Pkwy, NW	29
72a	Olive Street Extended and Rock Creek Pkwy, NW	1.5
73	O Street Extended and Rock Creek Parkway, NW	25
74	Q Street, west of Rock Creek, NW	0.5
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	Overflow, no diversion to interceptor
77	Normanstone Dr Extended, west of Rock Creek, NW	Overflow, no diversion to interceptor
77a	Normanstone Dr and Normanstone Lane, NW	Overflow, no diversion to interceptor
78	28th Street Extended, west of Rock Creek, NW	11.5
79	Connecticut Ave and Rock Creek Parkway, NW	1.1
84	26th and P Streets, NW	3.3
84a	26th and P Streets, NW	Internal flow junction

APPENDIX 2-3

Inspection and Maintenance Summaries: Regulators

Regulators

The following table summarizes inspections of regulators in the collection system.

Regulator Structures
January 2012

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	01/03/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	01/03/12	*			
5	Poplar Point Pumping Station	004	01/31/12	*			
6	Chicago Street and Railroad Ave, SE	005	01/09/12	*			
7	W Street and Railroad Ave, SE	005	01/13/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A[3]	*			
9	13th Street and Ridge Place, SE	007	01/13/12	*			
11	"O" Street Pumping Station	011(a)	01/13/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	01/13/12	*			
13	2nd Street, 300 ft. north of N Place, SE	009	01/13/12	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	01/13/12	*			
15	South Capitol and E Streets	010	01/24/12	*			
15a	Half and L Streets, SE	010	01/24/12	*			
15b	South Capitol and I Streets	010	01/18/12	*			
15c	South Capitol and I Streets	010	01/18/12	*			
16	North of Main Sewage Pumping Station	012	01/31/12	*			
17	4th and N Streets, SE, Both Extended	013	01/05/12	*			
17a	K Street between 6th Street and 7th Street, SE	013	01/13/12	*			
18	6th and M Streets, SE	014	01/13/12	*			
19	9th and M Streets, SE	015	01/03/12	*			
19a	9th and M Streets, SE	015	01/03/12	*			
20	12th and M Streets, SE	016	01/03/12	*			
20a	12th and M Streets, SE	016	01/03/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
21	14th and M Streets, SE	017	01/05/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	01/11/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	01/11/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	01/11/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	01/17/12	*			
22e	14th Street and Kentucky Ave, SE	018	01/17/12	*			
23	Independence Ave, 21st Street, SE, Extended	019	01/17/12	*			
24a	East Capitol St, west of RFK stadium	019	01/18/12	*			
28	21st and Constitution Ave, NW	020	01/28/12	*			
29	22nd Street, between Constitution Ave and C St, NW	020	01/28/12	*			
30	17th and D Streets, NW	020	01/10/12	*			
31	15th Street and Pennsylvania Ave, NW	020	01/10/12	*			
33	10th and F Streets, NW	020	01/10/12	*			
34	23rd Street, north of Constitution Ave, NW	020	01/18/12	*			
34a	23rd Street near C Street, NW	020	01/29/12	*			
35	Northeast of Roosevelt Bridge, NW	021	01/18/12	*			
36	27th and I Streets, NW	022	01/06/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	01/06/12	*			
36b	19th and L Streets, NW	022, 034	01/06/12	*			
36d	17th and L Streets, NW	022, 034	01/06/12	*			
36g	18th and M Streets, NW	022, 034	01/06/12	*			
36h	18th and M Streets, NW	022, 034	01/06/12	*			
37	27th and Eye Streets, NW	022	01/09/12	*			
38	29th and K Streets, NW	024	01/09/12	*			
38a	30th Street, south of K Street, NW	024	01/09/12	*			
39a	30th and K Streets, NW	024	01/09/12	*			
39b	30th and K Streets, NW	024	01/09/12	*			
41b	31st and K Streets, NW	025	01/09/12	*			
41c	31st and K Streets, NW	025	01/09/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
42	Wisconsin Ave and K Street, NW	026	01/09/12	*			
43	Potomac and Water Streets, NW	027	01/09/12	*			
43a	Potomac and Water Streets, NW	027	01/09/12	*			
44	Water Street, west of Potomac St, NW	027	01/09/12	*			
45	36th and M Streets, NW	028	01/03/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	01/03/12	*			
47	38th Street and Reservoir Road, NW	029	01/03/12	*			
47a	37th and T Streets, NW	029	01/03/12	*			
47b	37th and T Streets, NW	029	01/03/12	*			
47c	38th and W Streets, NW	029	01/03/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A[3]	*			
50	26 and M Streets, NW	032	01/09/12	*			
51	N Street Extended, west of 25th Street, NW	033	01/09/12	*			
52	22nd Street between M and N Streets, NW	034	01/11/12	*			
52a	N Street between 22nd and 23rd Streets, NW	034	01/11/12	*			
53	22nd and M Streets, NW	022, 034	01/18/12	*			
53a	22nd and M Streets, NW	022, 034	01/18/12	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	01/09/12	*			
53c	L and 22nd Streets, NW	022	01/09/12	*			
54	23rd and O Streets, NW	034	01/17/12	*			
55	22nd Street, south of Q Street, NW	035	01/17/12	*			
55a	22nd Street, south of Q Street, NW	035	01/17/12	*			
56	23rd and Massachusetts Ave, NW	036	01/17/12	*			
57	23rd Street, south of Q Street, NW	036	01/17/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A[3]	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	01/17/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	01/05/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	01/05/12	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	01/20/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
63	Harvard Street and Rock Creek Parkway, NW	042	01/20/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	01/20/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	01/20/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	01/20/12	*			
66	Adams Mill Road and Lamont Street, NW	045	01/20/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	01/20/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	01/20/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	01/20/12	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	01/20/12	*			
70i	5th and Quackenbos Streets, NW	049	01/06/12	*			
71	28th Street, west of Rock Creek Parkway, NW	050	01/06/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	01/17/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	01/17/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	01/17/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A[3]	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	01/18/12	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	01/18/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	01/18/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	01/18/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A[3]	*			
84	26th and P Streets, NW	060	01/17/12	*			
84a	26th and P Streets, NW	060	01/17/12	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Structure no longer functions as a combined sewer overflow regulator structure.

Regulators

The following table summarizes inspections of regulators in the collection system.

Regulator Structures
February 2012

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	02/27/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	02/27/12	*			
5	Poplar Point Pumping Station	004	02/16/12	*			
6	Chicago Street and Railroad Ave, SE	005	02/06/12	*			
7	W Street and Railroad Ave, SE	005	02/06/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A[3]	*			
9	13th Street and Ridge Place, SE	007	02/06/12	*			
11	"O" Street Pumping Station	011(a)	02/06/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	02/06/12	*			
13	2nd Street, 300 ft. north of N Place, SE	009	02/17/12	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	02/16/12	*			
15	South Capitol and E Streets	010	02/16/12	*			
15a	Half and L Streets, SE	010	02/16/12	*			
15b	South Capitol and I Streets	010	02/22/12	*			
15c	South Capitol and I Streets	010	02/22/12	*			
16	North of Main Sewage Pumping Station	012	02/16/12	*			
17	4th and N Streets, SE, Both Extended	013	02/17/12	*			
17a	K Street between 6th Street and 7th Street, SE	013	02/21/12	*			
18	6th and M Streets, SE	014	02/08/12	*			
19	9th and M Streets, SE	015	02/10/12	*			
19a	9th and M Streets, SE	015	02/10/12	*			
20	12th and M Streets, SE	016	02/10/12	*			
20a	12th and M Streets, SE	016	02/10/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
21	14th and M Streets, SE	017	02/14/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	02/14/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	02/14/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	02/14/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	02/08/12	*			
22e	14th Street and Kentucky Ave, SE	018	02/08/12	*			
23	Independence Ave, 21st Street, SE, Extended	019	02/21/12	*			
24a	East Capitol St, west of RFK stadium	019	02/21/12	*			
28	21st and Constitution Ave, NW	020	02/22/12	*			
29	22nd Street, between Constitution Ave and C St, NW	020	02/22/12	*			
30	17th and D Streets, NW	020	02/07/12	*			
31	15th Street and Pennsylvania Ave, NW	020	02/07/12	*			
33	10th and F Streets, NW	020	02/07/12	*			
34	23rd Street, north of Constitution Ave, NW	020	02/23/12	*			
34a	23rd Street near C Street, NW	020	02/23/12	*			
35	Northeast of Roosevelt Bridge, NW (1)	021	02/23/12	*			
36	27th and I Streets, NW	022	02/23/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	02/13/12	*			
36b	19th and L Streets, NW	022, 034	02/13/12	*			
36d	17th and L Streets, NW	022, 034	02/13/12	*			
36g	18th and M Streets, NW	022, 034	02/13/12	*			
36h	18th and M Streets, NW	022, 034	02/13/12	*			
37	27th and Eye Streets, NW	022	02/13/12	*			
38	29th and K Streets, NW	024	02/06/12	*			
38a	30th Street, south of K Street, NW	024	02/06/12	*			
39a	30th and K Streets, NW	024	02/06/12	*			
39b	30th and K Streets, NW	024	02/06/12	*			
41b	31st and K Streets, NW	025	02/06/12	*			
41c	31st and K Streets, NW	025	02/06/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
42	Wisconsin Ave and K Street, NW	026	02/07/12	*			
43	Potomac and Water Streets, NW	027	02/07/12	*			
43a	Potomac and Water Streets, NW	027	02/07/12	*			
44	Water Street, west of Potomac St, NW	027	02/07/12	*			
45	36th and M Streets, NW (1)	028	02/07/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	02/07/12	*			
47	38th Street and Reservoir Road, NW	029	02/07/12	*			
47a	37th and T Streets, NW	029	02/07/12	*			
47b	37th and T Streets, NW	029	02/07/12	*			
47c	38th and W Streets, NW	029	02/07/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A[3]	*			
50	26 and M Streets, NW	032	02/10/12	*			
51	N Street Extended, west of 25th Street, NW	033	02/10/12	*			
52	22nd Street between M and N Streets, NW	034	02/23/12	*			
52a	N Street between 22nd and 23rd Streets, NW	034	02/23/12	*			
53	22nd and M Streets, NW	022, 034	02/22/12	*			
53a	22nd and M Streets, NW	022, 034	02/22/12	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	02/13/12	*			
53c	L and 22nd Streets, NW	022	02/13/12	*			
54	23rd and O Streets, NW	034	02/17/12	*			
55	22nd Street, south of Q Street, NW	035	02/17/12	*			
55a	22nd Street, south of Q Street, NW	035	02/17/12	*			
56	23rd and Massachusetts Ave, NW	036	02/17/12	*			
57	23rd Street, south of Q Street, NW	036	02/17/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A[3]	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	02/15/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	02/06/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	02/06/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	02/08/12	*			
63	Harvard Street and Rock Creek Parkway, NW	042	02/08/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	02/08/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	02/08/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	02/08/12	*			
66	Adams Mill Road and Lamont Street, NW	045	02/08/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	02/08/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	02/08/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	02/08/12	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	02/08/12	*			
70i	5th and Quackenbos Streets, NW	049	02/06/12	*			
71	28th Street, west of Rock Creek Parkway, NW	050	02/06/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	02/15/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	02/15/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	02/15/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A[3]	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	02/17/12	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	02/17/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	02/03/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	02/17/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A[3]	*			
84	26th and P Streets, NW	060	02/15/12	*			
84a	26th and P Streets, NW	060	02/15/12	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Structure no longer functions as a combined sewer overflow regulator structure.

Regulators

The following table summarizes inspections of regulators in the collection system.

Regulator Structures
March 2012

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	03/30/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	03/30/12	*			
5	Poplar Point Pumping Station	004	03/15/12	*			
6	Chicago Street and Railroad Ave, SE	005	03/26/12	*			
7	W Street and Railroad Ave, SE	005	03/26/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A[3]	*			
9	13th Street and Ridge Place, SE	007	03/26/12	*			
11	"O" Street Pumping Station	011(a)	03/15/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	03/15/12	*			
13	2nd Street, 300 ft. north of N Place, SE	009	03/26/12	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	03/15/12	*			
15	South Capitol and E Streets	010	03/15/12	*			
15a	Half and L Streets, SE	010	03/15/12	*			
15b	South Capitol and I Streets	010	03/16/12	*			
15c	South Capitol and I Streets	010	03/16/12	*			
16	North of Main Sewage Pumping Station	012	03/15/12	*			
17	4th and N Streets, SE, Both Extended	013	03/12/12	*			
17a	K Street between 6th Street and 7th Street, SE	013	03/21/12	*			
18	6th and M Streets, SE	014	03/16/12	*			
19	9th and M Streets, SE	015	03/19/12	*			
19a	9th and M Streets, SE	015	03/19/12	*			
20	12th and M Streets, SE	016	03/19/12	*			
20a	12th and M Streets, SE	016	03/19/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
21	14th and M Streets, SE	017	03/12/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	03/27/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	03/27/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	03/27/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	03/21/12	*			
22e	14th Street and Kentucky Ave, SE	018	03/21/12	*			
23	Independence Ave, 21st Street, SE, Extended	019	03/21/12	*			
24a	East Capitol St, west of RFK stadium	019	03/21/12	*			
28	21st and Constitution Ave, NW	020	03/21/12	*			
29	22nd Street, between Constitution Ave and C St, NW	020	03/21/12	*			
30	17th and D Streets, NW	020	03/19/12	*			
31	15th Street and Pennsylvania Ave, NW	020	03/19/12	*			
33	10th and F Streets, NW	020	03/19/12	*			
34	23rd Street, north of Constitution Ave, NW	020	03/15/12	*			
34a	23rd Street near C Street, NW	020	03/21/12	*			
35	Northeast of Roosevelt Bridge, NW (1)	021	03/14/12	*			
36	27th and I Streets, NW	022	03/19/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	03/19/12	*			
36b	19th and L Streets, NW	022, 034	03/12/12	*			
36d	17th and L Streets, NW	022, 034	03/12/12	*			
36g	18th and M Streets, NW	022, 034	03/12/12	*			
36h	18th and M Streets, NW	022, 034	03/12/12	*			
37	27th and Eye Streets, NW	022	03/19/12	*			
38	29th and K Streets, NW	024	03/16/12	*			
38a	30th Street, south of K Street, NW	024	03/16/12	*			
39a	30th and K Streets, NW	024	03/16/12	*			
39b	30th and K Streets, NW	024	03/16/12	*			
41b	31st and K Streets, NW	025	03/16/12	*			
41c	31st and K Streets, NW	025	03/16/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
42	Wisconsin Ave and K Street, NW	026	03/16/12	*			
43	Potomac and Water Streets, NW	027	03/16/12	*			
43a	Potomac and Water Streets, NW	027	03/16/12	*			
44	Water Street, west of Potomac St, NW	027	03/16/12	*			
45	36th and M Streets, NW (1)	028	03/01/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	03/01/12	*			
47	38th Street and Reservoir Road, NW	029	03/01/12	*			
47a	37th and T Streets, NW	029	03/01/12	*			
47b	37th and T Streets, NW	029	03/01/12	*			
47c	38th and W Streets, NW	029	03/01/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A[3]	*			
50	26 and M Streets, NW	032	03/12/12	*			
51	N Street Extended, west of 25th Street, NW	033	03/12/12	*			
52	22nd Street between M and N Streets, NW	034	03/15/12	*			
52a	N Street between 22nd and 23rd Streets, NW	034	03/15/12	*			
53	22nd and M Streets, NW	022, 034	03/28/12	*			
53a	22nd and M Streets, NW	022, 034	03/28/12	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	03/12/12	*			
53c	L and 22nd Streets, NW	022	03/12/12	*			
54	23rd and O Streets, NW	034	03/22/12	*			
55	22nd Street, south of Q Street, NW	035	03/22/12	*			
55a	22nd Street, south of Q Street, NW	035	03/22/12	*			
56	23rd and Massachusetts Ave, NW	036	03/22/12	*			
57	23rd Street, south of Q Street, NW	036	03/22/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A[3]	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	03/15/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	03/16/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	03/16/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	03/26/12	*			
63	Harvard Street and Rock Creek Parkway, NW	042	03/26/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	03/26/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	03/26/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	03/26/12	*			
66	Adams Mill Road and Lamont Street, NW	045	03/26/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	03/26/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	03/26/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	03/26/12	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	03/26/12	*			
70i	5th and Quackenbos Streets, NW	049	03/19/12	*			
71	28th Street, west of Rock Creek Parkway, NW	050	03/16/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	03/22/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	03/22/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	03/22/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A[3]	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	03/28/12	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	03/28/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	03/01/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	03/28/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A[3]	*			
84	26th and P Streets, NW	060	03/22/12	*			
84a	26th and P Streets, NW	060	03/22/12	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Structure no longer functions as a combined sewer overflow regulator structure.

Regulators

The following table summarizes inspections of regulators in the collection system.

Regulator Structures
April 2012

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	04/02/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	04/02/12	*			
5	Poplar Point Pumping Station	004	04/03/12	*			
6	Chicago Street and Railroad Ave, SE	005	04/03/12	*			
7	W Street and Railroad Ave, SE	005	04/03/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A[3]	*			
9	13th Street and Ridge Place, SE	007	04/19/12	*			
11	"O" Street Pumping Station	011(a)	04/19/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	04/19/12	*			
13	2nd Street, 300 ft. north of N Place, SE	009	04/27/12	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	04/19/12	*			
15	South Capitol and E Streets	010	04/19/12	*			
15a	Half and L Streets, SE	010	04/19/12	*			
15b	South Capitol and I Streets	010	04/04/12	*			
15c	South Capitol and I Streets	010	04/04/12	*			
16	North of Main Sewage Pumping Station	012	04/19/12	*			
17	4th and N Streets, SE, Both Extended	013	04/27/12	*			
17a	K Street between 6th Street and 7th Street, SE	013	04/18/12	*			
18	6th and M Streets, SE	014	04/04/12	*			
19	9th and M Streets, SE	015	04/25/12	*			
19a	9th and M Streets, SE	015	04/25/12	*			
20	12th and M Streets, SE	016	04/25/12	*			
20a	12th and M Streets, SE	016	04/25/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
21	14th and M Streets, SE	017	04/04/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	04/09/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	04/09/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	04/09/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	04/09/12	*			
22e	14th Street and Kentucky Ave, SE	018	04/09/12	*			
23	Independence Ave, 21st Street, SE, Extended	019	04/09/12	*			
24a	East Capitol St, west of RFK stadium	019	04/11/12	*			
28	21st and Constitution Ave, NW	020	04/11/12	*			
29	22nd Street, between Constitution Ave and C St, NW	020	04/11/12	*			
30	17th and D Streets, NW	020	04/11/12	*			
31	15th Street and Pennsylvania Ave, NW	020	04/11/12	*			
33	10th and F Streets, NW	020	04/11/12	*			
34	23rd Street, north of Constitution Ave, NW	020	04/11/12	*			
34a	23rd Street near C Street, NW	020	04/24/12	*			
35	Northeast of Roosevelt Bridge, NW (1)	021	04/11/12	*			
36	27th and I Streets, NW	022	04/24/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	04/03/12	*			
36b	19th and L Streets, NW	022, 034	04/03/12	*			
36d	17th and L Streets, NW	022, 034	04/04/12	*			
36g	18th and M Streets, NW	022, 034	04/04/12	*			
36h	18th and M Streets, NW	022, 034	04/04/12	*			
37	27th and Eye Streets, NW	022	04/04/12	*			
38	29th and K Streets, NW	024	04/03/12	*			
38a	30th Street, south of K Street, NW	024	04/03/12	*			
39a	30th and K Streets, NW	024	04/03/12	*			
39b	30th and K Streets, NW	024	04/03/12	*			
41b	31st and K Streets, NW	025	04/03/12	*			
41c	31st and K Streets, NW	025	04/04/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
42	Wisconsin Ave and K Street, NW	026	04/04/12	*			
43	Potomac and Water Streets, NW	027	04/04/12	*			
43a	Potomac and Water Streets, NW	027	04/04/12	*			
44	Water Street, west of Potomac St, NW	027	04/04/12	*			
45	36th and M Streets, NW (1)	028	04/02/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	04/02/12	*			
47	38th Street and Reservoir Road, NW	029	04/02/12	*			
47a	37th and T Streets, NW	029	04/02/12	*			
47b	37th and T Streets, NW	029	04/02/12	*			
47c	38th and W Streets, NW	029	04/02/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A[3]	*			
50	26 and M Streets, NW	032	04/09/12	*			
51	N Street Extended, west of 25th Street, NW	033	04/09/12	*			
52	22nd Street between M and N Streets, NW	034	04/24/12	*			
52a	N Street between 22nd and 23rd Streets, NW	034	04/24/12	*			
53	22nd and M Streets, NW	022, 034	04/25/12	*			
53a	22nd and M Streets, NW	022, 034	04/25/12	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	04/09/12	*			
53c	L and 22nd Streets, NW	022	04/09/12	*			
54	23rd and O Streets, NW	034	04/17/12	*			
55	22nd Street, south of Q Street, NW	035	04/17/12	*			
55a	22nd Street, south of Q Street, NW	035	04/17/12	*			
56	23rd and Massachusetts Ave, NW	036	04/17/12	*			
57	23rd Street, south of Q Street, NW	036	04/17/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A[3]	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	04/16/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	04/23/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	04/23/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	04/16/12	*			
63	Harvard Street and Rock Creek Parkway, NW	042	04/16/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	04/16/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	04/16/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	04/16/12	*			
66	Adams Mill Road and Lamont Street, NW	045	04/16/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	04/16/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	04/16/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	04/16/12	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	04/16/12	*			
70i	5th and Quackenbos Streets, NW	049	04/02/12	*			
71	28th Street, west of Rock Creek Parkway, NW	050	04/11/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	04/17/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	04/17/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	04/17/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A[3]	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	04/23/12	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	04/23/12 04/23/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	04/26/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	04/23/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A[3]	*			
84	26th and P Streets, NW	060	04/17/12	*			
84a	26th and P Streets, NW	060	04/17/12	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Structure no longer functions as a combined sewer overflow regulator structure.

Regulators

The following table summarizes inspections of regulators in the collection system.

Regulator Structures
May 2012

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	05/31/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	05/31/12	*			
5	Poplar Point Pumping Station	004	05/01/12	*			
6	Chicago Street and Railroad Ave, SE	005	05/01/12	*			
7	W Street and Railroad Ave, SE	005	05/01/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A[3]	*			
9	13th Street and Ridge Place, SE	007	05/31/12	*			
11	"O" Street Pumping Station	011(a)	05/31/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	05/31/12	*			
13	2nd Street, 300 ft. north of N Place, SE	009	05/31/12	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	05/31/12	*			
15	South Capitol and E Streets	010	05/31/12	*			
15a	Half and L Streets, SE	010	05/04/12	*			
15b	South Capitol and I Streets	010	05/04/12	*			
15c	South Capitol and I Streets	010	05/04/12	*			
16	North of Main Sewage Pumping Station	012	05/04/12	*			
17	4th and N Streets, SE, Both Extended	013	05/15/12	*			
17a	K Street between 6th Street and 7th Street, SE	013	05/07/12	*			
18	6th and M Streets, SE	014	05/31/12	*			
19	9th and M Streets, SE	015	05/31/12	*			
19a	9th and M Streets, SE	015	05/31/12	*			
20	12th and M Streets, SE	016	05/31/12	*			
20a	12th and M Streets, SE	016	05/31/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
21	14th and M Streets, SE	017	05/31/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	05/30/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	05/30/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	05/30/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	05/30/12	*			
22e	14th Street and Kentucky Ave, SE	018	05/30/12	*			
23	Independence Ave, 21st Street, SE, Extended	019	05/31/12	*			
24a	East Capitol St, west of RFK stadium	019	05/31/12	*			
28	21st and Constitution Ave, NW	020	05/30/12	*			
29	22nd Street, between Constitution Ave and C St, NW	020	05/30/12	*			
30	17th and D Streets, NW	020	05/01/12	*			
31	15th Street and Pennsylvania Ave, NW	020	05/01/12	*			
33	10th and F Streets, NW	020	05/01/12	*			
34	23rd Street, north of Constitution Ave, NW	020	05/30/12	*			
34a	23rd Street near C Street, NW	020	05/31/12	*			
35	Northeast of Roosevelt Bridge, NW (1)	021	05/31/12	*			
36	27th and I Streets, NW	022	05/30/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	05/11/12	*			
36b	19th and L Streets, NW	022, 034	05/07/12	*			
36d	17th and L Streets, NW	022, 034	0507/12	*			
36g	18th and M Streets, NW	022, 034	05/07/12	*			
36h	18th and M Streets, NW	022, 034	05/07/12	*			
37	27th and Eye Streets, NW	022	05/30/12	*			
38	29th and K Streets, NW	024	05/30/12	*			
38a	30th Street, south of K Street, NW	024	05/30/12	*			
39a	30th and K Streets, NW	024	05/30/12	*			
39b	30th and K Streets, NW	024	05/30/12	*			
41b	31st and K Streets, NW	025	05/30/12	*			
41c	31st and K Streets, NW	025	05/30/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
42	Wisconsin Ave and K Street, NW	026	05/14/12	*			
43	Potomac and Water Streets, NW	027	05/14/12	*			
43a	Potomac and Water Streets, NW	027	05/14/12	*			
44	Water Street, west of Potomac St, NW	027	05/01/12	*			
45	36th and M Streets, NW (1)	028	05/01/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	05/01/12	*			
47	38th Street and Reservoir Road, NW	029	05/01/12	*			
47a	37th and T Streets, NW	029	05/01/12	*			
47b	37th and T Streets, NW	029	05/01/12	*			
47c	38th and W Streets, NW	029	05/01/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A[3]	*			
50	26 and M Streets, NW	032	05/07/12	*			
51	N Street Extended, west of 25th Street, NW	033	05/07/12	*			
52	22nd Street between M and N Streets, NW	034	05/07/12	*			
52a	N Street between 22nd and 23rd Streets, NW	034	05/07/12	*			
53	22nd and M Streets, NW	022, 034	05/07/12	*			
53a	22nd and M Streets, NW	022, 034	05/07/12	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	05/14/12	*			
53c	L and 22nd Streets, NW	022	05/14/12	*			
54	23rd and O Streets, NW	034	05/11/12	*			
55	22nd Street, south of Q Street, NW	035	05/11/12	*			
55a	22nd Street, south of Q Street, NW	035	05/11/12	*			
56	23rd and Massachusetts Ave, NW	036	05/11/12	*			
57	23rd Street, south of Q Street, NW	036	05/11/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A[3]	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	05/08/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	05/08/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	05/08/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	05/15/12	*			
63	Harvard Street and Rock Creek Parkway, NW	042	05/15/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	05/15/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	05/15/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	05/15/12	*			
66	Adams Mill Road and Lamont Street, NW	045	05/15/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	05/15/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	05/15/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	05/15/12	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	05/15/12	*			
70i	5th and Quackenbos Streets, NW	049	05/07/12	*			
71	28th Street, west of Rock Creek Parkway, NW	050	05/31/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	05/11/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	05/11/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	05/11/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A[3]	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	05/17/12	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	05/17/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	05/17/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	05/17/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A[3]	*			
84	26th and P Streets, NW	060	05/11/12	*			
84a	26th and P Streets, NW	060	05/11/12	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Structure no longer functions as a combined sewer overflow regulator structure.

Regulators

The following table summarizes inspections of regulators in the collection system.

Regulator Structures
June 2012

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	06/18/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	06/18/12	*			
5	Poplar Point Pumping Station	004	06/28/12	*			
6	Chicago Street and Railroad Ave, SE	005	06/08/12	*			
7	W Street and Railroad Ave, SE	005	06/08/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A[3]	*			
9	13th Street and Ridge Place, SE	007	06/08/12	*			
11	"O" Street Pumping Station	011(a)	06/29/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	06/29/12	*			
13	2nd Street, 300 ft. north of N Place, SE	009	06/29/12	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	06/28/12	*			
15	South Capitol and E Streets	010	06/28/12	*			
15a	Half and L Streets, SE	010	06/25/12	*			
15b	South Capitol and I Streets	010	06/25/12	*			
15c	South Capitol and I Streets	010	06/25/12	*			
16	North of Main Sewage Pumping Station	012	06/28/12	*			
17	4th and N Streets, SE, Both Extended	013	06/08/12	*			
17a	K Street between 6th Street and 7th Street, SE	013	06/14/12	*			
18	6th and M Streets, SE	014	06/18/12	*			
19	9th and M Streets, SE	015	06/08/12	*			
19a	9th and M Streets, SE	015	06/08/12	*			
20	12th and M Streets, SE	016	06/08/12	*			
20a	12th and M Streets, SE	016	06/08/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
21	14th and M Streets, SE	017	06/19/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	06/18/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	06/18/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	06/18/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	06/18/12	*			
22e	14th Street and Kentucky Ave, SE	018	06/18/12	*			
23	Independence Ave, 21st Street, SE, Extended	019	06/08/12	*			
24a	East Capitol St, west of RFK stadium	019	06/08/12	*			
28	21st and Constitution Ave, NW	020	06/18/12	*			
29	22nd Street, between Constitution Ave and C St, NW	020	06/11/12	*			
30	17th and D Streets, NW	020	06/11/12	*			
31	15th Street and Pennsylvania Ave, NW	020	06/11/12	*			
33	10th and F Streets, NW	020	06/11/12	*			
34	23rd Street, north of Constitution Ave, NW	020	06/28/12	*			
34a	23rd Street near C Street, NW	020	06/18/12	*			
35	Northeast of Roosevelt Bridge, NW	021	06/28/12	*			
36	27th and I Streets, NW	022	06/11/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	06/11/12	*			
36b	19th and L Streets, NW	022, 034	06/15/12	*			
36d	17th and L Streets, NW	022, 034	06/15/12	*			
36g	18th and M Streets, NW	022, 034	06/15/12	*			
36h	18th and M Streets, NW	022, 034	06/15/12	*			
37	27th and Eye Streets, NW	022	06/11/12	*			
38	29th and K Streets, NW	024	06/04/12	*			
38a	30th Street, south of K Street, NW	024	06/04/12	*			
39a	30th and K Streets, NW	024	06/04/12	*			
39b	30th and K Streets, NW	024	06/04/12	*			
41b	31st and K Streets, NW	025	06/04/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
41c	31st and K Streets, NW	025	06/04/12	*			
42	Wisconsin Ave and K Street, NW	026	06/11/12	*			
43	Potomac and Water Streets, NW	027	06/11/12	*			
43a	Potomac and Water Streets, NW	027	06/11/12	*			
44	Water Street, west of Potomac St, NW	027	06/11/12	*			
45	36th and M Streets, NW	028	06/12/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	06/12/12	*			
47	38th Street and Reservoir Road, NW	029	06/12/12	*			
47a	37th and T Streets, NW	029	06/12/12	*			
47b	37th and T Streets, NW	029	06/12/12	*			
47c	38th and W Streets, NW	029	06/12/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A[3]	*			
50	26 and M Streets, NW	032	06/11/12	*			
51	N Street Extended, west of 25th Street, NW	033	06/11/12	*			
52	22nd Street between M and N Streets, NW	034	06/29/12	*			
52a	N Street between 22nd and 23rd Streets, NW	034	06/29/12	*			
53	22nd and M Streets, NW	022, 034	06/29/12	*			
53a	22nd and M Streets, NW	022, 034	06/29/12	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	06/04/12	*			
53c	L and 22nd Streets, NW	022	06/04/12	*			
54	23rd and O Streets, NW	034	05/25/12	*			
55	22nd Street, south of Q Street, NW	035	05/25/12	*			
55a	22nd Street, south of Q Street, NW	035	05/25/12	*			
56	23rd and Massachusetts Ave, NW	036	05/25/12	*			
57	23rd Street, south of Q Street, NW	036	05/25/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A[3]	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	06/15/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	06/04/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	06/04/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	06/06/12	*			
63	Harvard Street and Rock Creek Parkway, NW	042	06/06/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	06/06/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	06/06/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	06/06/12	*			
66	Adams Mill Road and Lamont Street, NW	045	06/06/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	06/06/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	06/06/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	06/06/12	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	06/06/12	*			
70i	5th and Quackenbos Streets, NW	049	06/15/12	*			
71	28th Street, west of Rock Creek Parkway, NW	050	06/04/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	06/18/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	06/18/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	06/18/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A[3]	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	06/25/12	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	06/25/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	06/12/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	06/25/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A[3]	*			
84	26th and P Streets, NW	060	06/18/12	*			
84a	26th and P Streets, NW	060	06/18/12	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Structure no longer functions as a combined sewer overflow regulator structure.

Regulators
The following table summarizes inspections of regulators in the collection system.

Regulator Structures
July 2012

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	07/09/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	07/09/12	*			
5	Poplar Point Pumping Station	004	07/27/12	*			
6	Chicago Street and Railroad Ave, SE	005	07/27/12	*			
7	W Street and Railroad Ave, SE	005	07/25/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A[3]				
9	13th Street and Ridge Place, SE	007	07/09/12	*			
11	"O" Street Pumping Station	011(a)	07/26/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	07/26/12	*			
13	2nd Street, 300 ft. north of N Place, SE	009	07/26/12	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	07/19/12	*			
15	South Capitol and E Streets	010	07/19/12	*			
15a	Half and L Streets, SE	010	07/19/12	*			
15b	South Capitol and I Streets	010	07/16/12	*			
15c	South Capitol and I Streets	010	07/19/12	*			
16	North of Main Sewage Pumping Station	012	07/02/12	*			
17	4th and N Streets, SE, Both Extended	013	07/16/12	*			
17a	K Street between 6th Street and 7th Street, SE	013	07/02/12	*			
18	6th and M Streets, SE	014	07/02/12	*			
19	9th and M Streets, SE	015	07/02/12	*			
19a	9th and M Streets, SE	015	07/02/12	*			
20	12th and M Streets, SE	016	07/02/12	*			
20a	12th and M Streets, SE	016	07/28/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
21	14th and M Streets, SE	017	07/24/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	07/24/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	07/24/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	07/24/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	07/24/12	*			
22e	14th Street and Kentucky Ave, SE	018	07/24/12	*			
23	Independence Ave, 21st Street, SE, Extended	019	07/24/12	*			
24a	East Capitol St, west of RFK stadium	019	07/24/12	*			
28	21st and Constitution Ave, NW	020	07/16/12	*			
29	22nd Street, between Constitution Ave and C St, NW	020	07/16/12	*			
30	17th and D Streets, NW	020	07/09/12	*			
31	15th Street and Pennsylvania Ave, NW	020	07/09/12	*			
33	10th and F Streets, NW	020	07/09/12	*			
34	23rd Street, north of Constitution Ave, NW	020	07/19/12	*			
34a	23rd Street near C Street, NW	020	07/16/12	*			
35	Northeast of Roosevelt Bridge, NW (1)	021	07/19/12	*			
36	27th and I Streets, NW	022	07/09/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	07/09/12	*			
36b	19th and L Streets, NW	022, 034	07/05/12	*			
36d	17th and L Streets, NW	022, 034	07/05/12	*			
36g	18th and M Streets, NW	022, 034	07/05/12	*			
36h	18th and M Streets, NW	022, 034	07/05/12	*			
37	27th and Eye Streets, NW	022	07/09/12	*			
38	29th and K Streets, NW	024	07/09/12	*			
38a	30th Street, south of K Street, NW	024	07/09/12	*			
39a	30th and K Streets, NW	024	07/09/12	*			
39b	30th and K Streets, NW	024	07/09/12	*			
41b	31st and K Streets, NW	025	07/09/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
41c	31st and K Streets, NW	025	07/09/12	*			
42	Wisconsin Ave and K Street, NW	026	07/16/12	*			
43	Potomac and Water Streets, NW	027	07/16/12	*			
43a	Potomac and Water Streets, NW	027	07/16/12	*			
44	Water Street, west of Potomac St, NW	027	07/16/12	*			
45	36th and M Streets, NW (1)	028	07/02/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	07/02/12	*			
47	38th Street and Reservoir Road, NW	029	07/02/12	*			
47a	37th and T Streets, NW	029	07/02/12	*			
47b	37th and T Streets, NW	029	07/02/12	*			
47c	38th and W Streets, NW	029	07/02/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A[3]				
50	26 and M Streets, NW	032	07/23/12	*			
51	N Street Extended, west of 25th Street, NW	033	07/23/12	*			
52	22nd Street between M and N Streets, NW	034	07/19/12	*			
52a	N Street between 22nd and 23rd Streets, NW	034	07/19/12	*			
53	22nd and M Streets, NW	022, 034	07/23/12	*			
53a	22nd and M Streets, NW	022, 034	07/13/12	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	07/13/12	*			
53c	L and 22nd Streets, NW	022	07/13/12	*			
54	23rd and O Streets, NW	034	07/13/12	*			
55	22nd Street, south of Q Street, NW	035	07/13/12	*			
55a	22nd Street, south of Q Street, NW	035	07/13/12	*			
56	23rd and Massachusetts Ave, NW	036	07/13/12	*			
57	23rd Street, south of Q Street, NW	036	07/13/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A[3]				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	07/09/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	07/03/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	07/03/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	07/11/12	*			
63	Harvard Street and Rock Creek Parkway, NW	042	07/11/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	07/11/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	07/11/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	07/11/12	*			
66	Adams Mill Road and Lamont Street, NW	045	07/11/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	07/11/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	07/11/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	07/11/12	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	07/09/12	*			
70i	5th and Quackenbos Streets, NW	049	07/17/12	*			
71	28th Street, west of Rock Creek Parkway, NW	050	07/17/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	07/13/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	07/13/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	07/12/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A[3]				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	07/27/12	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	07/27/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	07/12/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	07/26/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A[3]				
84	26th and P Streets, NW	060	07/13/12	*			
84a	26th and P Streets, NW	060	07/13/12	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Structure no longer functions as a combined sewer overflow regulator structure.

Regulators

The following table summarizes inspections of regulators in the collection system.

Regulator Structures
August 2012

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	08/30/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	08/30/12	*			
5	Poplar Point Pumping Station	004	08/28/12	*			
6	Chicago Street and Railroad Ave, SE	005	08/28/12	*			
7	W Street and Railroad Ave, SE	005	08/29/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A[3]				
9	13th Street and Ridge Place, SE	007	08/28/12	*			
11	"O" Street Pumping Station	011(a)	08/23/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	08/17/12	*			
13	2nd Street, 300 ft. north of N Place, SE	009	08/17/12	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	08/17/12	*			
15	South Capitol and E Streets	010	08/23/12	*			
15a	Half and L Streets, SE	010	08/23/12	*			
15b	South Capitol and I Streets	010	08/23/12	*			
15c	South Capitol and I Streets	010	08/23/12	*			
16	North of Main Sewage Pumping Station	012	08/23/12	*			
17	4th and N Streets, SE, Both Extended	013	08/22/12	*			
17a	K Street between 6th Street and 7th Street, SE	013	08/06/12	*			
18	6th and M Streets, SE	014	08/17/12	*			
19	9th and M Streets, SE	015	08/17/12	*			
19a	9th and M Streets, SE	015	08/07/12	*			
20	12th and M Streets, SE	016	08/07/12	*			
20a	12th and M Streets, SE	016	08/17/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
21	14th and M Streets, SE	017	08/17/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	08/20/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	08/20/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	08/20/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	08/20/12	*			
22e	14th Street and Kentucky Ave, SE	018	08/20/12	*			
23	Independence Ave, 21st Street, SE, Extended	019	08/22/12	*			
24a	East Capitol St, west of RFK stadium	019	08/24/12	*			
28	21st and Constitution Ave, NW	020	08/29/12	*			
29	22nd Street, between Constitution Ave and C St, NW	020	08/30/12	*			
30	17th and D Streets, NW	020	08/13/12	*			
31	15th Street and Pennsylvania Ave, NW	020	08/13/12	*			
33	10th and F Streets, NW	020	08/13/12	*			
34	23rd Street, north of Constitution Ave, NW	020	08/30/12	*			
34a	23rd Street near C Street, NW	020	08/30/12	*			
35	Northeast of Roosevelt Bridge, NW	021	08/15/12	*			
36	27th and I Streets, NW	022	08/15/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	08/15/12	*			
36b	19th and L Streets, NW	022, 034	08/15/12	*			
36d	17th and L Streets, NW	022, 034	08/15/12	*			
36g	18th and M Streets, NW	022, 034	08/15/12	*			
36h	18th and M Streets, NW	022, 034	08/15/12	*			
37	27th and Eye Streets, NW	022	08/15/12	*			
38	29th and K Streets, NW	024	08/13/12	*			
38a	30th Street, south of K Street, NW	024	08/13/12	*			
39a	30th and K Streets, NW	024	08/13/12	*			
39b	30th and K Streets, NW	024	08/13/12	*			
41b	31st and K Streets, NW	025	08/13/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
41c	31st and K Streets, NW	025	08/13/12	*			
42	Wisconsin Ave and K Street, NW	026	08/01/12	*			
43	Potomac and Water Streets, NW	027	08/31/12	*			
43a	Potomac and Water Streets, NW	027	08/31/12	*			
44	Water Street, west of Potomac St, NW	027	08/01/12	*			
45	36th and M Streets, NW	028	08/01/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	08/10/12	*			
47	38th Street and Reservoir Road, NW	029	08/01/12	*			
47a	37th and T Streets, NW	029	08/17/12	*			
47b	37th and T Streets, NW	029	08/17/12	*			
47c	38th and W Streets, NW	029	08/17/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A[3]				
50	26 and M Streets, NW	032	08/28/12	*			
51	N Street Extended, west of 25th Street, NW	033	08/28/12	*			
52	22nd Street between M and N Streets, NW	034	08/30/12	*			
52a	N Street between 22nd and 23rd Streets, NW	034	08/30/12	*			
53	22nd and M Streets, NW	022, 034	08/17/12	*			
53a	22nd and M Streets, NW	022, 034	08/17/12	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	08/28/12	*			
53c	L and 22nd Streets, NW	022	08/28/12	*			
54	23rd and O Streets, NW	034	08/20/12	*			
55	22nd Street, south of Q Street, NW	035	08/20/12	*			
55a	22nd Street, south of Q Street, NW	035	08/20/12	*			
56	23rd and Massachusetts Ave, NW	036	08/20/12	*			
57	23rd Street, south of Q Street, NW	036	08/20/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A[3]				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	08/08/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	08/08/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
61	Biltmore St, Extended, east of Rock Creek, NW	040	08/08/12	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	08/08/12	*			
63	Harvard Street and Rock Creek Parkway, NW	042	08/08/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	08/08/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	08/08/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	08/08/12	*			
66	Adams Mill Road and Lamont Street, NW	045	08/08/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	08/08/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	08/08/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	08/08/12	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	08/08/12	*			
70i	5th and Quackenbos Streets, NW	049	08/13/12	*			
71	28th Street, west of Rock Creek Parkway, NW	050	08/13/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	08/20/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	08/20/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	08/20/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A[3]				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	08/17/12	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	08/17/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	08/17/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	08/17/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A[3]				
84	26th and P Streets, NW	060	08/31/12	*			
84a	26th and P Streets, NW	060	08/31/12	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Structure no longer functions as a combined sewer overflow regulator structure.

Regulators

The following table summarizes inspections of regulators in the collection system.

Regulator Structures
September 2012

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	09/27/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	09/27/12	*			
5	Poplar Point Pumping Station	004	09/28/12	*			
6	Chicago Street and Railroad Ave, SE	005	09/10/12	*			
7	W Street and Railroad Ave, SE	005	09/10/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A[3]	*			
9	13th Street and Ridge Place, SE	007	09/10/12				
11	"O" Street Pumping Station	011(a)	09/28/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	09/28/12	*			
13	2nd Street, 300 ft. north of N Place, SE	009	09/28/12	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	09/28/12	*			
15	South Capitol and E Streets	010	09/28/12	*			
15a	Half and L Streets, SE	010	09/28/12	*			
15b	South Capitol and I Streets	010	09/05/12	*			
15c	South Capitol and I Streets	010	09/05/12	*			
16	North of Main Sewage Pumping Station	012	09/28/12	*			
17	4th and N Streets, SE, Both Extended	013	09/17/12	*			
17a	K Street between 6th Street and 7th Street, SE	013	09/13/12	*			
18	6th and M Streets, SE	014	09/20/12	*			
19	9th and M Streets, SE	015	09/20/12	*			
19a	9th and M Streets, SE	015	09/04/12	*			
20	12th and M Streets, SE	016	09/17/12	*			
20a	12th and M Streets, SE	016	09/17/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
21	14th and M Streets, SE	017	09/17/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	09/20/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	09/20/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	09/07/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	09/07/12	*			
22e	14th Street and Kentucky Ave, SE	018	09/07/12	*			
23	Independence Ave, 21st Street, SE, Extended	019	09/14/12	*			
24a	East Capitol St, west of RFK stadium	019	09/14/12	*			
28	21st and Constitution Ave, NW	020	09/27/12	*			
29	22nd Street, between Constitution Ave and C St, NW	020	09/27/12	*			
30	17th and D Streets, NW	020	09/10/12	*			
31	15th Street and Pennsylvania Ave, NW	020	09/10/12	*			
33	10th and F Streets, NW	020	09/10/12	*			
34	23rd Street, north of Constitution Ave, NW	020	09/28/12	*			
34a	23rd Street near C Street, NW	020	09/27/12	*			
35	Northeast of Roosevelt Bridge, NW	021	09/28/12	*			
36	27th and I Streets, NW	022	09/04/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	09/04/12	*			
36b	19th and L Streets, NW	022, 034	09/26/12	*			
36d	17th and L Streets, NW	022, 034	09/26/12	*			
36g	18th and M Streets, NW	022, 034	09/26/12	*			
36h	18th and M Streets, NW	022, 034	09/26/12	*			
37	27th and Eye Streets, NW	022	09/04/12	*			
38	29th and K Streets, NW	024	09/13/12	*			
38a	30th Street, south of K Street, NW	024	09/13/12	*			
39a	30th and K Streets, NW	024	09/13/12	*			
39b	30th and K Streets, NW	024	09/13/12	*			
41b	31st and K Streets, NW	025	09/13/12	*			
41c	31st and K Streets, NW	025	09/13/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
42	Wisconsin Ave and K Street, NW	026	09/13/12	*			
43	Potomac and Water Streets, NW	027	09/13/12	*			
43a	Potomac and Water Streets, NW	027	09/13/12	*			
44	Water Street, west of Potomac St, NW	027	09/13/12	*			
45	36th and M Streets, NW	028	09/07/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	09/07/12	*			
47	38th Street and Reservoir Road, NW	029	09/07/12	*			
47a	37th and T Streets, NW	029	09/07/12	*			
47b	37th and T Streets, NW	029	09/07/12	*			
47c	38th and W Streets, NW	029	09/07/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A[3]	*			
50	26 and M Streets, NW	032	09/06/12				
51	N Street Extended, west of 25th Street, NW	033	09/06/12	*			
52	22nd Street between M and N Streets, NW	034	09/28/12	*			
52a	N Street between 22nd and 23rd Streets, NW	034	09/06/12	*			
53	22nd and M Streets, NW	022, 034	09/06/12	*			
53a	22nd and M Streets, NW	022, 034	09/06/12	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	09/26/12	*			
53c	L and 22nd Streets, NW	022	09/26/12	*			
54	23rd and O Streets, NW	034	09/26/12	*			
55	22nd Street, south of Q Street, NW	035	09/26/12	*			
55a	22nd Street, south of Q Street, NW	035	09/26/12	*			
56	23rd and Massachusetts Ave, NW	036	09/26/12	*			
57	23rd Street, south of Q Street, NW	036	09/26/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A[3]	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	09/21/12				
60	Connecticut Ave, east of Rock Creek, NW	039	09/21/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	09/21/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	09/25/12	*			
63	Harvard Street and Rock Creek Parkway, NW	042	09/25/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	09/25/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	09/25/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	09/25/12	*			
66	Adams Mill Road and Lamont Street, NW	045	09/25/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	09/25/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	09/25/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	09/25/12	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	09/25/12	*			
70i	5th and Quackenbos Streets, NW	049	09/06/12	*			
71	28th Street, west of Rock Creek Parkway, NW	050	09/11/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	09/11/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	09/11/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	09/11/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A[3]	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	09/21/12				
77	Normanstone Dr Extended, west of Rock Creek, NW	056	09/21/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	09/26/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	09/21/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A[3]	*			
84	26th and P Streets, NW	060	09/11/12				
84a	26th and P Streets, NW	060	09/11/12	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Structure no longer functions as a combined sewer overflow regulator structure.

Regulators

The following table summarizes inspections of regulators in the collection system.

Regulator Structures
October 2012

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/1/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/1/12	*			
5	Poplar Point Pumping Station	004	10/12/12	*			
6	Chicago Street and Railroad Ave, SE	005	10/10/12	*			
7	W Street and Railroad Ave, SE	005	10/10/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A[3]	*			
9	13th Street and Ridge Place, SE	007	10/10/12				
11	"O" Street Pumping Station	011(a)	10/4/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	10/4/12	*			
13	2nd Street, 300 ft. north of N Place, SE	009	10/12/12	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	10/4/12	*			
15	South Capitol and E Streets	010	10/11/12	*			
15a	Half and L Streets, SE	010	10/11/12	*			
15b	South Capitol and I Streets	010	10/11/12	*			
15c	South Capitol and I Streets	010	10/11/12	*			
16	North of Main Sewage Pumping Station	012	10/11/12	*			
17	4th and N Streets, SE, Both Extended	013	10/3/12	*			
17a	K Street between 6th Street and 7th Street, SE	013	10/12/12	*			
18	6th and M Streets, SE	014	10/1/12	*			
19	9th and M Streets, SE	015	10/04/12	*			
19a	9th and M Streets, SE	015	10/31/12	*			
20	12th and M Streets, SE	016	10/31/12	*			
20a	12th and M Streets, SE	016	10/31/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
21	14th and M Streets, SE	017	10/31/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	10/24/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	10/24/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	10/24/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	10/24/12	*			
22e	14th Street and Kentucky Ave, SE	018	10/24/12	*			
23	Independence Ave, 21st Street, SE, Extended	019	10/24/12	*			
24a	East Capitol St, west of RFK stadium	019	10/12/12	*			
28	21st and Constitution Ave, NW	020	10/12/12	*			
29	22nd Street, between Constitution Ave and C St, NW	020	10/24/12	*			
30	17th and D Streets, NW	020	10/24/12	*			
31	15th Street and Pennsylvania Ave, NW	020	10/24/12	*			
33	10th and F Streets, NW	020	10/24/12	*			
34	23rd Street, north of Constitution Ave, NW	020	10/25/12	*			
34a	23rd Street near C Street, NW	020	10/24/12	*			
35	Northeast of Roosevelt Bridge, NW	021	10/25/12	*			
36	27th and I Streets, NW	022	10/4/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	10/4/12	*			
36b	19th and L Streets, NW	022, 034	10/12/12	*			
36d	17th and L Streets, NW	022, 034	10/12/12	*			
36g	18th and M Streets, NW	022, 034	10/12/12	*			
36h	18th and M Streets, NW	022, 034	10/12/12	*			
37	27th and Eye Streets, NW	022	10/12/12	*			
38	29th and K Streets, NW	024	10/4/12	*			
38a	30th Street, south of K Street, NW	024	10/12/12	*			
39a	30th and K Streets, NW	024	10/12/12	*			
39b	30th and K Streets, NW	024	10/12/12	*			
41b	31st and K Streets, NW	025	10/12/12	*			
41c	31st and K Streets, NW	025	10/12/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
42	Wisconsin Ave and K Street, NW	026	10/1/12	*			
43	Potomac and Water Streets, NW	027	10/1/12	*			
43a	Potomac and Water Streets, NW	027	10/1/12	*			
44	Water Street, west of Potomac St, NW	027	10/1/12	*			
45	36th and M Streets, NW	028	10/18/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	10/18/12	*			
47	38th Street and Reservoir Road, NW	029	10/18/12	*			
47a	37th and T Streets, NW	029	10/18/12	*			
47b	37th and T Streets, NW	029	10/18/12	*			
47c	38th and W Streets, NW	029	10/18/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A[3]	*			
50	26 and M Streets, NW	032	10/3/12				
51	N Street Extended, west of 25th Street, NW	033	10/3/12	*			
52	22nd Street between M and N Streets, NW	034	10/25/12	*			
52a	N Street between 22nd and 23rd Streets, NW	034	10/25/12	*			
53	22nd and M Streets, NW	022, 034	10/26/12	*			
53a	22nd and M Streets, NW	022, 034	10/26/12	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	10/22/12	*			
53c	L and 22nd Streets, NW	022	10/22/12	*			
54	23rd and O Streets, NW	034	10/22/12	*			
55	22nd Street, south of Q Street, NW	035	10/22/12	*			
55a	22nd Street, south of Q Street, NW	035	10/22/12	*			
56	23rd and Massachusetts Ave, NW	036	10/22/12	*			
57	23rd Street, south of Q Street, NW	036	10/16/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A[3]	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	10/4/12				
60	Connecticut Ave, east of Rock Creek, NW	039	10/4/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	10/4/12	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	10/23/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
63	Harvard Street and Rock Creek Parkway, NW	042	10/23/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	10/23/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	10/23/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	10/23/12	*			
66	Adams Mill Road and Lamont Street, NW	045	10/23/12	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	10/23/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	10/23/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	10/23/12	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	10/23/12	*			
70i	5th and Quackenbos Streets, NW	049	10/23/12	*			
71	28th Street, west of Rock Creek Parkway, NW	050	10/23/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	10/23/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	10/23/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	10/23/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A[3]	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	10/10/12				
77	Normanstone Dr Extended, west of Rock Creek, NW	056	10/10/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	10/26/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	10/10/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A[3]	*			
84	26th and P Streets, NW	060	10/3/12				
84a	26th and P Streets, NW	060	10/3/12	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Structure no longer functions as a combined sewer overflow regulator structure.

Regulators

The following table summarizes inspections of regulators in the collection system.

Regulator Structures
November 2012

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/23/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/23/12	*			
5	Poplar Point Pumping Station	004	11/16/12	*			
6	Chicago Street and Railroad Ave, SE	005	11/16/12	*			
7	W Street and Railroad Ave, SE	005	11/16/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A[3]				
9	13th Street and Ridge Place, SE	007	11/14/12	*			
11	"O" Street Pumping Station	011(a)	11/14/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	11/14/12	*			
13	2nd Street, 300 ft. north of N Place, SE	009	11/26/12	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	11/27/12	*			
15	South Capitol and E Streets	010	11/23/12	*			
15a	Half and L Streets, SE	010	11/23/12	*			
15b	South Capitol and I Streets	010	11/7/12	*			
15c	South Capitol and I Streets	010	11/7/12	*			
16	North of Main Sewage Pumping Station	012	11/7/12	*			
17	4th and N Streets, SE, Both Extended	013	11/27/12	*			
17a	K Street between 6th Street and 7th Street, SE	013	11/30/12	*			
18	6th and M Streets, SE	014	11/30/12	*			
19	9th and M Streets, SE	015	11/8/12	*			
19a	9th and M Streets, SE	015	11/02/12	*			
20	12th and M Streets, SE	016	11/02/12	*			
20a	12th and M Streets, SE	016	11/02/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
21	14th and M Streets, SE	017	11/23/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	11/20/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	11/20/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	11/20/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	11/14/12	*			
22e	14th Street and Kentucky Ave, SE	018	11/14/12	*			
23	Independence Ave, 21st Street, SE, Extended	019	11/14/12	*			
24a	East Capitol St, west of RFK stadium	019	11/09/12	*			
28	21st and Constitution Ave, NW	020	11/09/12	*			
29	22nd Street, between Constitution Ave and C St, NW	020	11/09/12	*			
30	17th and D Streets, NW	020	11/16/12	*			
31	15th Street and Pennsylvania Ave, NW	020	11/16/12	*			
33	10th and F Streets, NW	020	11/9/12	*			
34	23rd Street, north of Constitution Ave, NW	020	11/9/12	*			
34a	23rd Street near C Street, NW	020	11/23/12	*			
35	Northeast of Roosevelt Bridge, NW	021	11/8/12	*			
36	27th and I Streets, NW	022	11/16/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	11/2/12	*			
36b	19th and L Streets, NW	022, 034	11/02/12	*			
36d	17th and L Streets, NW	022, 034	11/02/12	*			
36g	18th and M Streets, NW	022, 034	11/02/12	*			
36h	18th and M Streets, NW	022, 034	11/08/12	*			
37	27th and Eye Streets, NW	022	11/1/12	*			
38	29th and K Streets, NW	024	11/1/12	*			
38a	30th Street, south of K Street, NW	024	11/1/12	*			
39a	30th and K Streets, NW	024	11/1/12	*			
39b	30th and K Streets, NW	024	11/23/12	*			
41b	31st and K Streets, NW	025	11/23/12	*			
41c	31st and K Streets, NW	025	11/02/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
42	Wisconsin Ave and K Street, NW	026	11/02/12	*			
43	Potomac and Water Streets, NW	027	11/2/12	*			
43a	Potomac and Water Streets, NW	027	11/2/12	*			
44	Water Street, west of Potomac St, NW	027	11/2/12	*			
45	36th and M Streets, NW	028	11/1/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	11/1/12	*			
47	38th Street and Reservoir Road, NW	029	11/1/12	*			
47a	37th and T Streets, NW	029	11/1/12	*			
47b	37th and T Streets, NW	029	11/1/12	*			
47c	38th and W Streets, NW	029	11/1/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A[3]				
50	26 and M Streets, NW	032	11/7/12	*			
51	N Street Extended, west of 25th Street, NW	033	11/7/12	*			
52	22nd Street between M and N Streets, NW	034	11/13/12	*			
52a	N Street between 22nd and 23rd Streets, NW	034	11/30/12	*			
53	22nd and M Streets, NW	022, 034	11/30/12	*			
53a	22nd and M Streets, NW	022, 034	11/30/12	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	11/07/12	*			
53c	L and 22nd Streets, NW	022	11/07/12	*			
54	23rd and O Streets, NW	034	11/13/12	*			
55	22nd Street, south of Q Street, NW	035	11/13/12	*			
55a	22nd Street, south of Q Street, NW	035	11/13/12	*			
56	23rd and Massachusetts Ave, NW	036	11/13/12	*			
57	23rd Street, south of Q Street, NW	036	11/7/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A[3]				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	11/7/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	11/7/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	11/14/12	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	11/14/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
63	Harvard Street and Rock Creek Parkway, NW	042	11/14/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	11/14/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	11/14/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	11/14/12	*			
66	Adams Mill Road and Lamont Street, NW	045	11/14/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	11/14/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	11/14/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	11/14/12	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	11/1/12	*			
70i	5th and Quackenbos Streets, NW	049	11/1/12	*			
71	28th Street, west of Rock Creek Parkway, NW	050	11/13/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	11/13/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	11/13/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	11/13/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A[3]				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	11/23/12	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	11/23/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	11/23/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	11/23/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A[3]				
84	26th and P Streets, NW	060	11/13/12	*			
84a	26th and P Streets, NW	060	11/13/12	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Structure no longer functions as a combined sewer overflow regulator structure.

Regulators

The following table summarizes inspections of regulators in the collection system.

Regulator Structures
December 2012

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/28/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/28/12	*			
5	Poplar Point Pumping Station	004	12/04/12	*			
6	Chicago Street and Railroad Ave, SE	005	12/03/12	*			
7	W Street and Railroad Ave, SE	005	12/03/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A[3]				
9	13th Street and Ridge Place, SE	007	12/3/12	*			
11	"O" Street Pumping Station	011(a)	12/11/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	12/11/12	*			
13	2nd Street, 300 ft. north of N Place, SE	009	12/28/12	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	12/11/12	*			
15	South Capitol and E Streets	010	12/11/12	*			
15a	Half and L Streets, SE	010	12/11/12	*			
15b	South Capitol and I Streets	010	12/11/12	*			
15c	South Capitol and I Streets	010	12/11/12	*			
16	North of Main Sewage Pumping Station	012	12/11/12	*			
17	4th and N Streets, SE, Both Extended	013	12/26/12	*			
17a	K Street between 6th Street and 7th Street, SE	013	12/26/12	*			
18	6th and M Streets, SE	014	12/13/12	*			
19	9th and M Streets, SE	015	12/26/12	*			
19a	9th and M Streets, SE	015	12/26/12	*			
20	12th and M Streets, SE	016	12/26/12	*			
20a	12th and M Streets, SE	016	12/26/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
21	14th and M Streets, SE	017	12/26/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	12/26/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	12/26/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	12/26/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	12/26/12	*			
22e	14th Street and Kentucky Ave, SE	018	12/26/12	*			
23	Independence Ave, 21st Street, SE, Extended	019	12/28/12	*			
24a	East Capitol St, west of RFK stadium	019	12/28/12	*			
28	21st and Constitution Ave, NW	020	12/26/12	*			
29	22nd Street, between Constitution Ave and C St, NW	020	12/26/12	*			
30	17th and D Streets, NW	020	12/26/12	*			
31	15th Street and Pennsylvania Ave, NW	020	12/26/12	*			
33	10th and F Streets, NW	020	12/26/12	*			
34	23rd Street, north of Constitution Ave, NW	020	12/13/12	*			
34a	23rd Street near C Street, NW	020	12/13/12	*			
35	Northeast of Roosevelt Bridge, NW	021	12/13/12	*			
36	27th and I Streets, NW	022	12/17/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	12/17/12	*			
36b	19th and L Streets, NW	022, 034	12/31/12	*			
36d	17th and L Streets, NW	022, 034	12/31/12	*			
36g	18th and M Streets, NW	022, 034	12/31/12	*			
36h	18th and M Streets, NW	022, 034	12/31/12	*			
37	27th and Eye Streets, NW	022	12/17/12	*			
38	29th and K Streets, NW	024	12/17/12	*			
38a	30th Street, south of K Street, NW	024	12/17/12	*			
39a	30th and K Streets, NW	024	12/17/12	*			
39b	30th and K Streets, NW	024	12/17/12	*			
41b	31st and K Streets, NW	025	12/17/12	*			
41c	31st and K Streets, NW	025	12/17/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
42	Wisconsin Ave and K Street, NW	026	12/31/12	*			
43	Potomac and Water Streets, NW	027	12/31/12	*			
43a	Potomac and Water Streets, NW	027	12/31/12	*			
44	Water Street, west of Potomac St, NW	027	12/31/12	*			
45	36th and M Streets, NW	028	12/7/12	*			
46	Canal Rd, 1000ft. east of Fox hall Rd, NW	029	12/7/12	*			
47	38th Street and Reservoir Road, NW	029	12/7/12	*			
47a	37th and T Streets, NW	029	12/7/12	*			
47b	37th and T Streets, NW	029	12/7/12	*			
47c	38th and W Streets, NW	029	12/7/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A[3]				
50	26 and M Streets, NW	032	12/31/12	*			
51	N Street Extended, west of 25th Street, NW	033	12/31/12	*			
52	22nd Street between M and N Streets, NW	034	12/13/12	*			
52a	N Street between 22nd and 23rd Streets, NW	034	12/13/12	*			
53	22nd and M Streets, NW	022, 034	12/28/12	*			
53a	22nd and M Streets, NW	022, 034	12/28/12	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	12/28/12	*			
53c	L and 22nd Streets, NW	022	12/28/12	*			
54	23rd and O Streets, NW	034	12/31/12	*			
55	22nd Street, south of Q Street, NW	035	12/31/12	*			
55a	22nd Street, south of Q Street, NW	035	12/31/12	*			
56	23rd and Massachusetts Ave, NW	036	12/31/12	*			
57	23rd Street, south of Q Street, NW	036	12/31/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A[3]				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	12/06/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	12/03/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	12/03/12	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	12/12/12	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
63	Harvard Street and Rock Creek Parkway, NW	042	12/12/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	12/12/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	12/12/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	12/12/12	*			
66	Adams Mill Road and Lamont Street, NW	045	12/12/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	12/12/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	12/12/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	12/12/12	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	12/12/12	*			
70i	5th and Quackenbos Streets, NW	049	12/03/12	*			
71	28th Street, west of Rock Creek Parkway, NW	050	12/07/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	12/31/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	12/31/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	12/31/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A[3]				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	12/28/12	*			
77	Norman stone Dr Extended, west of Rock Creek, NW	056	12/28/12	*			
77a	Norman stone Dr and Norman stone Lane, NW	056	12/28/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	12/28/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A[3]				
84	26th and P Streets, NW	060	12/31/12	*			
84a	26th and P Streets, NW	060	12/13/12	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Structure no longer functions as a combined sewer overflow regulator structure.

APPENDIX 2-4

Inspection and Maintenance Summaries: Outfalls and Tide Gates

Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Outfalls and Tide Gates
January 2012

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	01/03/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	01/12/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A[1]	*		*		*		*		
007	Between 11th St. and Anacostia Bridges, SE	01/12/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	01/30/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	01/30/12	*			*			*		
011	Main Sewage Pumping Station, SE	01/30/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	01/30/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
012	Main Sewage Pumping Station, SE	01/30/12	*		*		*		*		
013	Southeast Federal Center, aligned with 4th St.	01/05/12	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	01/05/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	01/05/12	*			*			*		
016	12th and O Streets, SE	01/05/12	*		*		*		*		
017	M and Water Street, SE	01/05/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	01/05/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	01/3012	*			*			*		
020	Rock Creek Parkway and Independence, NW	01/26/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	01/26/12	*			*			*		
022	Rock Creek Parkway and G St., NW	01/12/12	*		*		*		*		
024	South of 30th and K Streets, NW	01/12/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
025	South of 31st and K Streets, NW	01/12/12	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	01/12/12	*		*		*		*		
027	33rd and Water Sts., NW	01/12/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	01/12/12	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	01/12/12	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	N/A[1]	*			*			*		
032	26th and M Street, NW.	01/31/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	01/31/12	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	01/17/12	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	01/17/12	*		*		*		*		
036	22nd Street, South of Q Street NW.	01/12/12	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	N/A[1]	*		*		*				

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	01/17/12	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	01/05/12	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	01/05/12	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	01/12/12	*		*		*		*		
042	Harvard St. and Beach Dr NW.	01/12/12	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	01/12/12	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	01/12/12	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	01/12/12	*		*		*		*		
046	Piney Branch Parkway and Park Road,NW.	01/20/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	01/20/12	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	01/20/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
049	North of Piney Branch Parkway and 17th St.	N/A[1]	*		*		*		*		
050	Rock Creek Parkway and L St., NW	01/26/12	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	01/26/12	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	01/26/12	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway,NW.	N/A[1]	*		*		*				
054	Massachusetts Avenue and Rock Creek Parkway, NW.	01/18/12	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	01/18/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	01/18/12	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	N/A[1]	*			*					
060	North of P Street Bridge and Rock Creek Pkwy, NW	01/12/12	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Outfalls and Tide Gates
February 2012

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	02/27/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	02/09/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A[1]	*		*		*		*		
007	Between 11th St. and Anacostia Bridges, SE	02/09/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	02/21/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	02/21/12	*			*			*		
011	Main Sewage Pumping Station, SE	02/21/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	02/21/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	02/21/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
013	Southeast Federal Center, aligned with 4th St.	02/23/12	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	02/23/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	02/23/12	*			*			*		
016	12th and O Streets, SE	02/09/12	*		*		*		*		
017	M and Water Street, SE	02/09/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	02/09/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	02/21/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	02/09/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	02/09/12	*			*			*		
022	Rock Creek Parkway and G St., NW	02/09/12	*		*		*		*		
024	South of 30th and K Streets, NW	N/A[1]	*		*		*		*		
025	South of 31st and K Streets, NW	02/09/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
026	Wisconsin Avenue and Water Street, NW	02/09/12	*		*		*		*		
027	33rd and Water Sts., NW	02/09/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	02/09/12	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	02/09/12	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	N/A[1]	*			*			*		
032	26th and M Street, NW.	02/10/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	02/10/12	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	02/17/12	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	02/17/12	*		*		*		*		
036	22nd Street, South of Q Street NW.	02/27/12	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	N/A[1]	*		*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	02/15/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	02/06/12	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	02/06/12	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	02/16/12	*		*		*		*		
042	Harvard St. and Beach Dr NW.	02/16/12	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	02/16/12	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	02/16/12	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	02/16/12	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	02/08/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	02/08/12	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	02/08/12	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	02/08/12	*		*		*		*		
050	Rock Creek Parkway and L St., NW	02/27/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
051	Across Rock Creek Parkway, aligned with Olive St., NW.	02/21/12	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	02/21/12	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	N/A[1]	*		*		*				
054	Massachusetts Avenue and Rock Creek Parkway, NW.	02/17/12	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	02/17/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	02/17/12	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	N/A[1]	*			*					
060	North of P Street Bridge and Rock Creek Pkwy, NW	02/27/12	*		*		*		*		

Notes:

1.Structure no longer functions as a combined sewer outfall.

Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Outfalls and Tide Gates
March 2012

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	03/30/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	03/01/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A[1]	*		*		*		*		
007	Between 11th St. and Anacostia Bridges, SE	03/01/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	03/29/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	03/29/12	*			*			*		
011	Main Sewage Pumping Station, SE	03/29/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	03/29/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	03/29/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
013	Southeast Federal Center, aligned with 4th St.	03/08/12	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	03/08/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	03/08/12	*			*			*		
016	12th and O Streets, SE	03/08/12	*		*		*		*		
017	M and Water Street, SE	03/08/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	03/08/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	03/30/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	03/30/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	03/30/12	*			*			*		
022	Rock Creek Parkway and G St., NW	03/30/12	*		*		*		*		
024	South of 30th and K Streets, NW	N/A[1]	*		*		*		*		
025	South of 31st and K Streets, NW	03/30/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
026	Wisconsin Avenue and Water Street, NW	03/30/12	*		*		*		*		
027	33rd and Water Sts., NW	03/30/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	03/30/12	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	03/30/12	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	N/A[1]	*			*			*		
032	26th and M Street, NW.	03/12/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	03/22/12	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	03/22/12	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	03/22/12	*		*		*		*		
036	22nd Street, South of Q Street NW.	03/29/12	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	N/A[1]	*		*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	03/19/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	03/16/12	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	03/16/12	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	03/01/12	*		*		*		*		
042	Harvard St. and Beach Dr NW.	03/01/12	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	03/01/12	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	03/01/12	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	03/01/12	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	03/26/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	03/26/12	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	03/26/12	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	03/26/12	*		*		*		*		
050	Rock Creek Parkway and L St., NW	03/16/12	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	03/29/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	03/29/12	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	N/A[1]	*		*		*				
054	Massachusetts Avenue and Rock Creek Parkway, NW.	03/28/12	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	03/28/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	03/28/12	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	N/A[1]	*			*					
060	North of P Street Bridge and Rock Creek Pkwy, NW	03/29/12	*		*		*		*		

Notes:

1.Structure no longer functions as a combined sewer outfall.

Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Outfalls and Tide Gates
April 2012

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	04/02/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	04/24/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A[1]	*		*		*		*		
007	Between 11th St. and Anacostia Bridges, SE	04/24/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	04/05/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	04/05/12	*			*			*		
011	Main Sewage Pumping Station, SE	04/05/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	04/05/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	04/05/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
013	Southeast Federal Center, aligned with 4th St.	04/25/12	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	04/30/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	04/30/12	*			*			*		
016	12th and O Streets, SE	04/26/12	*		*		*		*		
017	M and Water Street, SE	04/26/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	04/26/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	04/26/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	04/26/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	04/11/12	*			*			*		
022	Rock Creek Parkway and G St., NW	04/11/12	*		*		*		*		
024	South of 30th and K Streets, NW	04/11/12	*		*		*		*		
025	South of 31st and K Streets, NW	N/A[1]	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
026	Wisconsin Avenue and Water Street, NW	04/11/12	*		*		*		*		
027	33rd and Water Sts., NW	04/11/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	04/11/12	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	04/11/12	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	N/A[1]	*			*			*		
032	26th and M Street, NW.	04/11/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	04/11/12	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	04/24/12	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	04/17/12	*		*		*		*		
036	22nd Street, South of Q Street NW.	04/30/12	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	N/A[1]	*		*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	04/16/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	04/23/12	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	04/23/12	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	04/12/12	*		*		*		*		
042	Harvard St. and Beach Dr NW.	04/12/12	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	04/12/12	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	04/12/12	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	04/12/12	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	04/16/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	04/16/12	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	04/16/12	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	04/16/12	*		*		*		*		
050	Rock Creek Parkway and L St., NW	04/11/12	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	04/27/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	04/27/12	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	04/03/12[1]	*		*		*				
054	Massachusetts Avenue and Rock Creek Parkway, NW.	04/23/12	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	04/23/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	04/23/12	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	N/A[1]	*			*					
060	North of P Street Bridge and Rock Creek Pkwy, NW	04/23/12	*		*		*		*		

Notes:

1.Structure no longer functions as a combined sewer outfall.

Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Outfalls and Tide Gates
May 2012

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	05/31/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	05/08/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A[1]	*		*		*		*		
007	Between 11th St. and Anacostia Bridges, SE	05/10/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	05/10/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	05/10/12	*			*			*		
011	Main Sewage Pumping Station, SE	05/10/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	05/10/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	05/10/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
013	Southeast Federal Center, aligned with 4th St.	05/10/12	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	05/31/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	05/31/12	*			*			*		
016	12th and O Streets, SE	05/31/12	*		*		*		*		
017	M and Water Street, SE	05/31/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	05/31/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	05/31/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	05/10/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	05/10/12	*			*			*		
022	Rock Creek Parkway and G St., NW	05/10/12	*		*		*		*		
024	South of 30th and K Streets, NW	05/10/12	*		*		*		*		
025	South of 31st and K Streets, NW	N/A[1]	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
026	Wisconsin Avenue and Water Street, NW	05/10/12	*		*		*		*		
027	33rd and Water Sts., NW	05/10/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	05/10/12	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	05/10/12	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	N/A[1]	*			*			*		
032	26th and M Street, NW.	05/07/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	05/07/12	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	05/11/12	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	05/11/12	*		*		*		*		
036	22nd Street, South of Q Street NW.	05/08/12	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	N/A[1]	*		*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	05/31/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	05/08/12	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	05/08/12	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	05/08/12	*		*		*		*		
042	Harvard St. and Beach Dr NW.	05/10/12	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	05/10/12	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	05/10/12	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	05/10/12	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	05/10/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	05/15/12	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	05/15/12	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	05/15/12	*		*		*		*		
050	Rock Creek Parkway and L St., NW	05/15/12	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	05/31/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	05/31/12	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	05/31/12[1]	*		*		*				
054	Massachusetts Avenue and Rock Creek Parkway, NW.	05/31/12	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	05/31/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	05/31/12	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	N/A[1]	*			*					
060	North of P Street Bridge and Rock Creek Pkwy, NW	05/31/12	*		*		*		*		

Notes:

1.Structure no longer functions as a combined sewer outfall.

Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Outfalls and Tide Gates
June 2012

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	06/18/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	06/26/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A[1]			*		*		*		
007	Between 11th St. and Anacostia Bridges, SE	06/26/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	06/14/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	06/14/12	*			*			*		
011	Main Sewage Pumping Station, SE	06/14/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	06/14/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	06/14/12	*		*		*		*		
013	Southeast Federal Center, aligned with 4th St.	06/08/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
014	Navy Yard, aligned with 6th St., SE	06/29/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	06/29/12	*			*			*		
016	12th and O Streets, SE	06/19/12	*		*		*		*		
017	M and Water Street, SE	06/19/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	06/19/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	06/29/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	06/29/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	06/29/12	*			*			*		
022	Rock Creek Parkway and G St., NW	06/29/12	*		*		*		*		
024	South of 30th and K Streets, NW	06/29/12	*		*		*		*		
025	South of 31st and K Streets, NW	06/29/12	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	06/29/12	*		*		*		*		
027	33rd and Water Sts., NW	06/29/12	*			*			*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
028	Key Bridge and Whitehurst Freeway, NW	06/29/12	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	06/29/12	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	N/A[1]	*			*			*		
032	26th and M Street, NW.	06/11/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	06/11/12	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	06/25/12	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	06/25/12	*		*		*		*		
036	22nd Street, South of Q Street NW.	06/25/12	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	N/A[1]			*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	06/15/12	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	06/04/12	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	06/04/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
041	Beach Dr. and Ontario Pl., NW	06/19/12	*		*		*		*		
042	Harvard St. and Beach Dr NW.	06/19/12	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	06/19/12	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	06/19/12	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	06/19/12	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	06/06/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	06/06/12	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	06/06/12	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	06/06/12	*		*		*		*		
050	Rock Creek Parkway and L St., NW	06/04/12	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	06/14/12	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	06/14/12	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.[1]	N/A[1]			*		*				

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
054	Massachusetts Avenue and Rock Creek Parkway, NW.	06/25/12	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	06/25/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	06/25/12	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.[1]	06/15/12[1]				*					
060	North of P Street Bridge and Rock Creek Pkwy, NW	06/25/12	*		*		*		*		

Notes:

1.Structure no longer functions as a combined sewer outfall.

Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Outfalls and Tide Gates
July 2012

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	07/25/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	07/25/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	07/25/12[1]									
007	Between 11th St. and Anacostia Bridges, SE	07/25/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	07/12/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	07/12/12	*			*			*		
011	Main Sewage Pumping Station, SE	07/12/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	07/12/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	07/12/12	*		*		*		*		
013	Southeast Federal Center, aligned with 4th St.	07/12/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
014	Navy Yard, aligned with 6th St., SE	07/12/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	07/12/12	*			*			*		
016	12th and O Streets, SE	07/26/12	*		*		*		*		
017	M and Water Street, SE	07/26/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	07/26/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	07/26/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	07/05/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	07/05/12	*			*			*		
022	Rock Creek Parkway and G St., NW	07/05/12	*		*		*		*		
024	South of 30th and K Streets, NW	07/05/12	*		*		*		*		
025	South of 31st and K Streets, NW	07/05/12	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	07/05/12	*		*		*		*		
027	33rd and Water Sts., NW	07/05/12	*			*			*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
028	Key Bridge and Whitehurst Freeway, NW	07/05/12	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	07/05/12	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	N/A[1]									
032	26th and M Street, NW.	07/25/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	07/25/12	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	07/13/12	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	07/13/12	*		*		*		*		
036	22nd Street, South of Q Street NW.	07/26/12	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	N/A[1]			*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	07/09/12	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	07/03/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	07/03/12	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	07/12/12	*		*		*		*		
042	Harvard St. and Beach Dr NW.	07/12/12	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	07/12/12	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	07/12/12	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	07/12/12	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	07/11/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	07/11/12	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	07/11/12	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	07/11/12	*		*		*		*		
050	Rock Creek Parkway and L St., NW	07/17/12	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	07/26/12	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	07/26/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
053	Q St. Bridge and Rock Creek Parkway, NW.[1]	07/26/12[1]									
054	Massachusetts Avenue and Rock Creek Parkway, NW.	07/26/12	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	07/26/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	07/26/12	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.[1]	07/26/12[1]				*					
060	North of P Street Bridge and Rock Creek Pkwy, NW	07/26/12	*		*		*		*		

Notes:

1.Structure no longer functions as a combined sewer outfall.

Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Outfalls and Tide Gates
August 2012

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	08/01/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	08/01/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	08/07/12[1]									
007	Between 11th St. and Anacostia Bridges, SE		*		*		*		*		
009	O St. Sewage Pumping Station, SE/	08/22/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE/	08/22/12	*			*			*		
011	Main Sewage Pumping Station, SE	08/22/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	08/22/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	08/31/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
013	Southeast Federal Center, aligned with 4th St.	08/10/12	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	08/10/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	08/10/12	*			*			*		
016	12th and O Streets, SE	08/23/12	*		*		*		*		
017	M and Water Street, SE	08/23/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	08/23/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	08/14/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	08/22/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	08/22/12	*			*			*		
022	Rock Creek Parkway and G St., NW	08/22/12	*		*		*		*		
024	South of 30th and K Streets, NW	08/10/12	*		*		*		*		
025	South of 31st and K Streets, NW	08/10/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
026	Wisconsin Avenue and Water Street, NW	08/10/12	*		*		*		*		
027	33rd and Water Sts., NW	08/10/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	08/10/12	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	08/07/12	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	N/A[1]									
032	26th and M Street, NW.	08/23/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	08/23/12	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	08/20/12	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	08/20/12	*		*		*		*		
036	22nd Street, South of Q Street NW.	08/01/12	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	N/A[1]			*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	08/31/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	08/31/12	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	08/31/12	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	08/10/12	*		*		*		*		
042	Harvard St. and Beach Dr NW.	08/10/12	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	08/10/12	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	08/10/12	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	08/10/12	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	08/10/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	08/10/12	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	08/10/12	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	08/10/12	*		*		*		*		
050	Rock Creek Parkway and L St., NW	08/10/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
051	Across Rock Creek Parkway, aligned with Olive St., NW.	08/10/12	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	08/22/12	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.[1]	08/14/12[1]									
054	Massachusetts Avenue and Rock Creek Parkway, NW.	08/14/12	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	08/14/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	08/14/12	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.[1]	08/10/12[1]				*					
060	North of P Street Bridge and Rock Creek Pkwy, NW	08/10/12	*		*		*		*		

Notes:

1.Structure no longer functions as a combined sewer outfall.

Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Outfalls and Tide Gates
September 2012

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	09/27/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	09/27/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	09/27/12[1]									
007	Between 11th St. and Anacostia Bridges, SE	09/27/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	09/11/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	09/11/12	*			*			*		
011	Main Sewage Pumping Station, SE	09/11/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	09/11/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	09/11/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
013	Southeast Federal Center, aligned with 4th St.	09/11/12	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	09/11/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	09/11/12	*			*			*		
016	12th and O Streets, SE	09/11/12	*		*		*		*		
017	M and Water Street, SE	09/11/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	09/11/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	09/11/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	09/19/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	09/19/12	*			*			*		
022	Rock Creek Parkway and G St., NW	09/07/12	*		*		*		*		
024	South of 30th and K Streets, NW	09/07/12	*		*		*		*		
025	South of 31st and K Streets, NW	09/07/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
026	Wisconsin Avenue and Water Street, NW	09/07/12	*		*		*		*		
027	33rd and Water Sts., NW	09/07/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	09/07/12	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	09/07/12	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	N/A[1]									
032	26th and M Street, NW.	09/19/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	09/19/12	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	09/26/12	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	09/26/12	*		*		*		*		
036	22nd Street, South of Q Street NW.	09/18/12	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	N/A[1]			*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	09/21/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	09/18/12	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	09/18/12	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	09/18/12	*		*		*		*		
042	Harvard St. and Beach Dr NW.	09/18/12	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	09/18/12	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	09/18/12	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	09/18/12	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	09/25/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	09/07/12	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	09/07/12	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	09/07/12	*		*		*		*		
050	Rock Creek Parkway and L St., NW	09/07/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
051	Across Rock Creek Parkway, aligned with Olive St., NW.	09/07/12	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	09/07/12	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.[1]	09/07/12[1]									
054	Massachusetts Avenue and Rock Creek Parkway, NW.	09/07/12	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	09/07/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	09/07/12	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.[1]	09/18/12[1]				*					
060	North of P Street Bridge and Rock Creek Pkwy, NW	09/18/12	*		*		*		*		

Notes:

1.Structure no longer functions as a combined sewer outfall.

Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Outfalls and Tide Gates
October 2012

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	10/1/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	10/18/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A[1]	*		*		*		*		
007	Between 11th St. and Anacostia Bridges, SE	10/18/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	10/04/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	10/04/12	*			*			*		
011	Main Sewage Pumping Station, SE	10/04/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	10/04/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	10/04/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
013	Southeast Federal Center, aligned with 4th St.	10/18/12	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	10/18/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	10/18/12	*			*			*		
016	12th and O Streets, SE	10/18/12	*		*		*		*		
017	M and Water Street, SE	10/18/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	10/18/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	10/18/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	10/26/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	10/26/12	*			*			*		
022	Rock Creek Parkway and G St., NW	10/26/12	*		*		*		*		
024	South of 30th and K Streets, NW	10/04/12	*		*		*		*		
025	South of 31st and K Streets, NW	10/04/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
026	Wisconsin Avenue and Water Street, NW	10/04/12	*		*		*		*		
027	33rd and Water Sts., NW	10/04/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	10/04/12	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	10/04/12	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	N/A[1]	*			*			*		
032	26th and M Street, NW.	10/01/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	10/01/12	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	10/22/12	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	10/22/12	*		*		*		*		
036	22nd Street, South of Q Street NW.	10/26/12	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	N/A[1]	*		*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	10/10/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	10/04/12	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	10/04/12	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	10/31/12	*		*		*		*		
042	Harvard St. and Beach Dr NW.	10/31/12	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	10/31/12	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	10/31/12	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	10/31/12	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	10/23/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	10/23/12	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	10/23/12	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	10/23/12	*		*		*		*		
050	Rock Creek Parkway and L St., NW	10/1/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
051	Across Rock Creek Parkway, aligned with Olive St., NW.	10/31/12	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	10/31/12	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	N/A[1]	*		*		*				
054	Massachusetts Avenue and Rock Creek Parkway, NW.	10/10/12	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	10/10/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	10/10/12	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	N/A[1]	*			*					
060	North of P Street Bridge and Rock Creek Pkwy, NW	10/26/12	*		*		*		*		

Notes:

1.Structure no longer functions as a combined sewer outfall.

Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Outfalls and Tide Gates
November 2012

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	11/14/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	11/01/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A[1]	*		*		*		*		
007	Between 11th St. and Anacostia Bridges, SE	11/01/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	11/14/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	11/14/12	*			*			*		
011	Main Sewage Pumping Station, SE	11/14/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	11/14/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	11/14/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
013	Southeast Federal Center, aligned with 4th St.	11/14/12	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	11/14/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	11/14/12	*			*			*		
016	12th and O Streets, SE	11/14/12	*		*		*		*		
017	M and Water Street, SE	11/14/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	11/14/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	11/14/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	11/20/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	11/20/12	*			*			*		
022	Rock Creek Parkway and G St., NW	11/20/12	*		*		*		*		
024	South of 30th and K Streets, NW	11/20/12	*		*		*		*		
025	South of 31st and K Streets, NW	11/20/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
026	Wisconsin Avenue and Water Street, NW	11/20/12	*		*		*		*		
027	33rd and Water Sts., NW	11/20/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	11/20/12	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	11/20/12	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	N/A[1]	*			*			*		
032	26th and M Street, NW.	11/7/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	11/07/12	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	11/13/12	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	11/13/12	*		*		*		*		
036	22nd Street, South of Q Street NW.	11/23/12	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	N/A[1]	*		*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	11/7/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	11/7/12	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	11/7/12	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	11/20/12	*		*		*		*		
042	Harvard St. and Beach Dr NW.	11/20/12	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	11/20/12	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	11/20/12	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	11/20/12	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	11/14/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	11/14/12	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	11/14/12	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	11/14/12	*		*		*		*		
050	Rock Creek Parkway and L St., NW	11/8/12	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	11/8/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	11/8/12	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	N/A[1]	*		*		*				
054	Massachusetts Avenue and Rock Creek Parkway, NW.	11/23/12	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	11/23/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	11/23/12	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	N/A[1]	*			*					
060	North of P Street Bridge and Rock Creek Pkwy, NW	11/23/12	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Outfalls and Tide Gates
December 2012

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	12/4/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	12/4/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A[1]	*		*		*		*		
007	Between 11th St. and Anacostia Bridges, SE	12/4/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	12/4/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	12/4/12	*			*			*		
011	Main Sewage Pumping Station, SE	12/4/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	12/4/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	12/4/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
013	Southeast Federal Center, aligned with 4th St.	12/4/12	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	12/4/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	12/4/12	*			*			*		
016	12th and O Streets, SE	12/4/12	*		*		*		*		
017	M and Water Street, SE	12/4/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	12/4/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	12/4/12	*			*			*		On December 9, 2011, the CSO sign was replaced and vegetation cleared
020	Rock Creek Parkway and Independence, NW	12/27/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	12/27/12	*			*			*		
022	Rock Creek Parkway and G St., NW	12/27/12	*		*		*		*		
024	South of 30th and K Streets, NW	12/27/12	*		*		*		*		
025	South of 31st and K Streets, NW	12/27/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
026	Wisconsin Avenue and Water Street, NW	12/27/12	*		*		*		*		
027	33rd and Water Sts., NW	12/27/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	12/27/12	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	12/27/12	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	N/A[1]	*			*			*		
032	26th and M Street, NW.	12/31/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	12/31/12	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	12/31/12	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	12/31/12	*		*		*		*		
036	22nd Street, South of Q Street NW.	12/27/12	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	N/A[1]	*		*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	12/06/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	12/03/12	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	12/03/12	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	12/6/12	*		*		*		*		
042	Harvard St. and Beach Dr NW.	12/6/12	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	12/6/12	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	12/6/12	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	12/12/12	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	12/12/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	12/12/12	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	12/12/12	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	12/12/12	*		*		*		*		
050	Rock Creek Parkway and L St., NW	12/7/12	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
051	Across Rock Creek Parkway, aligned with Olive St., NW.	12/27/12	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	12/27/12	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	N/A[1]	*		*		*				
054	Massachusetts Avenue and Rock Creek Parkway, NW.	12/27/12	*		*		*		*		
056	Norman stone Dr. and Rock Creek Parkway, NW.	12/27/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	12/27/12	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	N/A[1]	*			*					
060	North of P Street Bridge and Rock Creek Pkwy, NW	12/27/12	*		*		*		*		

Notes:

1.Structure no longer functions as a combined sewer outfall.

APPENDIX 2-5

Inspection and Maintenance Summaries: Pumping Stations

Pumping Stations

Pumping station operations are summarized in the table below.

Pumping Stations – Inspections and Equipment in Service
January 2012

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	31	4	10	#3 Sanitary Pump	January 1-31	Pump being rehabbed	February 2012
Eastside	31	2	4	None			
Poplar Point	31	2	3	#1 Screen	January 25-31	Screen being rehabbed	February 2012
Potomac	31	4	5	#3 Screen	January 1-31	Screen being rehabbed	February 2012

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

Pumping Stations – Preventive Maintenance
January 2012

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	1/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	1/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	1/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	1/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	1/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	1/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	1/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	1/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

Pumping Stations – Pumpage
January 2012

	Sanitary Pumpage		*Storm Water/CSO Pumped To Anacostia River*		
Pumping Station	*Total Wastewater (mg)*	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	1,682.80	54.28	N/A	N/A	N/A
O St[1]	165.93	5.35	N/A	N/A	N/A
Eastside	343.45	11.08	N/A	N/A	N/A
Poplar Point	669.33	21.59	N/A	N/A	N/A
Potomac	3,718.20	119.94	N/A	N/A	N/A
Rock Creek	304.97	9.84	N/A	N/A	N/A
Upper Anacostia	152.92	4.93	N/A	N/A	N/A
Earle Place	0.17	0.01	N/A	N/A	N/A

Notes:
1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping Stations

Pumping station operations are summarized in the table below.

Pumping Stations – Inspections and Equipment in Service
February 2012

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	29	4	10	#3 Sanitary Pump	February 1-29	Pump being rehabbed	March 2012
Eastside	29	2	4	None			
Poplar Point	29	2	3	#1 Screen	February 1-21	Screen being rehabbed	
Potomac	29	4	5	#3 Screen	February 1-29	Screen being rehabbed	March 2012

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

Pumping Stations – Preventive Maintenance
February 2012

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	2/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	2/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	2/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	2/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	2/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	2/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	2/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	2/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

2. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

Pumping Stations – Pumpage
February 2012

	Sanitary Pumpage		*Storm Water/CSO Pumped To Anacostia River*		
Pumping Station	*Total Wastewater (mg)*	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	1,222.50	42.16	N/A	N/A	N/A
O St[1]	136.67	4.71	2/29/2012	65.10	Normal
Eastside	327.00	11.28	N/A	N/A	N/A
Poplar Point	623.16	21.49	N/A	N/A	N/A
Potomac	3,390.33	116.91	N/A	N/A	N/A
Rock Creek	148.33	5.11	N/A	N/A	N/A
Upper Anacostia	142.50	4.91	N/A	N/A	N/A
Earle Place	0.15	0.01	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping Stations

Pumping station operations are summarized in the table below.

Pumping Stations – Inspections and Equipment in Service
March 2012

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	31	4	10	#3 Sanitary Pump	March 1-31	Pump being rehabbed	April 2012
Eastside	31	2	4	None			
Poplar Point	31	2	3	None			
Potomac	31	4	5	#3 Screen	March 1-31	Screen being rehabbed	April 2012

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

Pumping Stations – Preventive Maintenance
March 2012

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	3/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	3/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	3/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	3/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	3/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	3/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	3/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	3/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

Pumping Stations – Pumpage
March 2012

	Sanitary Pumpage		*Storm Water/CSO Pumped To Anacostia River*		
Pumping Station	*Total Wastewater (mg)*	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	1,651.30	53.27	N/A	N/A	N/A
O St[1]	134.30	4.33	N/A	N/A	N/A
	434.00	14.00	N/A	N/A	N/A
	708.93	22.87	N/A	N/A	N/A
	3,736.30	120.53	N/A	N/A	N/A
Eastside	243.33	7.85	N/A	N/A	N/A
Poplar Point	152.08	4.91	N/A	N/A	N/A
Potomac	0.69	0.02	N/A	N/A	N/A
Rock Creek	1,651.30	53.27	N/A	N/A	N/A
Upper Anacostia	134.30	4.33	N/A	N/A	N/A
Earle Place	434.00	14.00	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping Stations

Pumping station operations are summarized in the table below.

Pumping Stations – Inspections and Equipment in Service
April 2012

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	30	4	10	#3 Sanitary Pump	April 1-31	Pump being rehabbed	July 2012
Eastside	30	2	4	None			
Poplar Point	30	2	3	None			
Potomac	30	4	5	#3 Screen	April 1-31	Screen being rehabbed	June 2012

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

Pumping Stations – Preventive Maintenance
April 2012

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	4/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	4/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	4/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	4/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	4/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	4/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	4/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	4/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

Pumping Stations – Pumpage
April 2012

Pumping Station	*Sanitary Pumpage*		*Storm Water/CSO Pumped To Anacostia River*		
	Total Wastewater (mg)	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	1,238.50	41.28	N/A	N/A	N/A
O St[1]	123.50	4.12	N/A	N/A	N/A
Eastside	196.94	6.56	N/A	N/A	N/A
Poplar Point	647.82	21.59	N/A	N/A	N/A
Potomac	3,458.10	115.27	N/A	N/A	N/A
Rock Creek	170.00	5.67	N/A	N/A	N/A
Upper Anacostia	147.71	4.92	N/A	N/A	N/A
Earle Place	0.16	0.01	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping Stations

Pumping station operations are summarized in the table below.

Pumping Stations – Inspections and Equipment in Service
May 2012

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	30	4	10	#3 Sanitary Pump	May 1-31	Pump being rehabbed	July 2012
Eastside	30	2	4	None			
Poplar Point	30	2	3	None			
Potomac	30	4	5	#1 Screen #3 Screen #4 Screen	May 31 May 1-31 May 21-31	Screen being rehabbed Screen being rehabbed Screen being rehabbed	June 2012 June 2012 June 2012

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

Pumping Stations – Preventive Maintenance
May 2012

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	5/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	5/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	5/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	5/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	5/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	5/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	5/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	5/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

Pumping Stations – Pumpage
May 2012

Pumping Station	*Sanitary Pumpage*		*Storm Water/CSO Pumped To Anacostia River*		
	Total Wastewater (mg)	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	1,347.90	43.48	N/A	N/A	N/A
O St[1]	154.50	4.98	N/A	N/A	N/A
Eastside	230.15	7.67	N/A	N/A	N/A
Poplar Point	669.96	21.61	N/A	N/A	N/A
Potomac	3,610.30	116.46	N/A	N/A	N/A
Rock Creek	165.83	5.35	N/A	N/A	N/A
Upper Anacostia	152.71	4.93	N/A	N/A	N/A
Earle Place	0.19	0.01	N/A	N/A	N/A

Notes:
1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping Stations

Pumping station operations are summarized in the table below.

Pumping Stations – Inspections and Equipment in Service
June 2012

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	30	4	10	#3 Sanitary Pump	June 1-30	Pump being rehabbed	July 2012
Eastside	30	2	4	#1 Screen	June 18-21	Screen being rehabbed	
Poplar Point	30	2	3	#1 Screen #2 Screen	June 19-30 June 25-30	Screen being rehabbed Screen being rehabbed	July 2012 July 2012
Potomac	30	4	5	#3 Screen #4 Screen	June 1-22 June 1-30	Screen being rehabbed Screen being rehabbed	July 2012

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

Pumping Stations – Preventive Maintenance
June 2012

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	6/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	6/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	6/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	6/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	6/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	6/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	6/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	6/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

Pumping Stations – Pumpage
June 2012

	Sanitary Pumpage		*Storm Water/CSO Pumped To Anacostia River*		
Pumping Station	*Total Wastewater (mg)*	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	1,622.10	54.07	N/A	N/A	N/A
O St[1]	154.40	5.15	6/30	13.4	Normal
Eastside	180.06	6.00	N/A	N/A	N/A
Poplar Point	668.88	22.30	N/A	N/A	N/A
Potomac	3,335.80	111.19	N/A	N/A	N/A
Rock Creek	171.63	5.72	N/A	N/A	N/A
Upper Anacostia	147.71	4.92	N/A	N/A	N/A
Earle Place	0.16	0.01	N/A	N/A	N/A

Notes:
1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping Stations

Pumping station operations are summarized in the table below.

Pumping Stations – Inspections and Equipment in Service
July 2012

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	31	4	10	#3 Sanitary Pump	July 1-31	Pump being rehabbed	December 2012
Eastside	31	2	4	#2 Screen	July 28-31	Screen being rehabbed	December 2012
Poplar Point	31	2	3	#1 Screen	July 1-31	Screen being rehabbed	December 2012
Potomac	31	4	5	#2 Sanitary Pump #4 Screen	July 23-31 July 1-31	Pump being rehabbed Screen being rehabbed	September 2012 December 2012

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

Pumping Stations – Preventive Maintenance
July 2012

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

Pumping Stations – Pumpage
July 2012

Pumping Station	*Sanitary Pumpage*		*Storm Water/CSO Pumped To Anacostia River*		
	Total Wastewater (mg)	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	1,574.80	50.80	N/A	N/A	N/A
O St[1]	171.00	5.52	7/25/2012	196.60	Normal
Eastside	283.25	9.14	N/A	N/A	N/A
Poplar Point	670.59	21.63	N/A	N/A	N/A
Potomac	3,527.60	113.79	N/A	N/A	N/A
Rock Creek	193.33	6.24	N/A	N/A	N/A
Upper Anacostia	152.08	4.91	N/A	N/A	N/A
Earle Place	0.16	0.01	N/A	N/A	N/A

Notes:
1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping station operations are summarized in the table below.

Pumping Stations – Inspections and Equipment in Service
August 2012

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	31	4	10	#3 Sanitary Pump	August 1-31	Pump being rehabbed	December 2012
Eastside	31	2	4	#2 Screen	August 1-31	Screen being rehabbed	December 2012
Poplar Point	31	2	3	#1 Screen	August 1-31	Screen being rehabbed	December 2012
Potomac	31	4	5	#2 Pump #4 Screen	August 1-31 August 1-31	Pump being rehabbed Screen being rehabbed	September 2012 October 2012

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

Pumping Stations – Preventive Maintenance
August 2012

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

Pumping Stations – Pumpage
August 2012

	Sanitary Pumpage		*Storm Water/CSO Pumped To Anacostia River*		
Pumping Station	*Total Wastewater (mg)*	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	1,531.80	49.41	N/A	N/A	N/A
O St[1]	177.00	5.71	8/10/2012	20.20	Normal
Eastside	294.45	9.50	N/A	N/A	N/A
Poplar Point	662.67	21.38	N/A	N/A	N/A
Potomac	3,452.30	111.36	N/A	N/A	N/A
Rock Creek	194.17	6.26	N/A	N/A	N/A
Upper Anacostia	151.04	4.87	N/A	N/A	N/A
Earle Place	0.19	0.01	N/A	N/A	N/A

Notes:
1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping Stations

Pumping station operations are summarized in the table below.

Pumping Stations – Inspections and Equipment in Service
September 2012

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	30	4	10	#3 Sanitary Pump #2 Screen	September 1-30 September 1-30	Pump being rehabbed Screen being rehabbed	December 2012 December 2012
Eastside	30	2	4	#2 Screen	September 1-30	Screen being rehabbed	December 2012
Poplar Point	30	2	3	#1 Screen	September 1-30	Screen being rehabbed	December 2012
Potomac	30	4	5	#2 Sanitary Pump #4 Screen	September 1-24 September 1-30	Pump being rehabbed Screen being rehabbed	Completed, September 2012 December 2012

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

Pumping Stations – Preventive Maintenance
September 2012

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

Pumping Stations – Pumpage
September 2012

Pumping Station	*Sanitary Pumpage*		*Storm Water/CSO Pumped To Anacostia River*		
	Total Wastewater (mg)	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	1,536.90	51.23	N/A	N/A	N/A
O St[1]	131.20	4.37	9/2/2012	25.60	Normal
			9/8/2012	77.70	Normal
			9/18/2012	29.40	Normal
			9/28/2012	7.60	Normal
Eastside	309.69	10.32	N/A	N/A	N/A
Poplar Point	647.28	21.58	N/A	N/A	N/A
Potomac	3,166.10	105.54	N/A	N/A	N/A
Rock Creek	151.67	5.06	N/A	N/A	N/A
Upper Anacostia	147.71	4.92	N/A	N/A	N/A
Earle Place	0.18	0.01	N/A	N/A	N/A

Notes:
1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping Stations

Pumping station operations are summarized in the table below.

Pumping Stations – Inspections and Equipment in Service
October 2012

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	31	4	10	#3 Sanitary Pump #2 Screen	October 1-31 October 1-31	Pump being rehabbed Screen being rehabbed	March 2013 March 2013
Eastside	31	2	4	#2 Screen	October 24-31	Screen being rehabbed	March 2013
Poplar Point	31	2	3	#1 Screen	October 9-31	Screen being rehabbed	March 2013
Potomac	31	4	5	#2 Sanitary Pump #4 Screen	October 9-31 October 1-31	Pump being rehabbed Screen being rehabbed	February 2013 December 2012

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

Pumping Stations – Preventive Maintenance
October 2012

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	10/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	10/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	10/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	10/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	10/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	10/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	10/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	10/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

Pumping Stations – Pumpage
October 2012

Pumping Station	*Sanitary Pumpage*		*Storm Water/CSO Pumped To Anacostia River*		
	Total Wastewater (mg)	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	1,944.20	62.72	N/A	N/A	N/A
O St[1]	175.60	5.66	10/2	5.0	Normal
			10/19	16.8	Normal
			10/29	300.7	Normal
			10/30	174.3	Normal
Eastside	276.62	8.92	N/A	N/A	N/A
Poplar Point	685.80	22.12	N/A	N/A	N/A
Potomac	3,536.20	114.07	N/A	N/A	N/A
Rock Creek	236.67	7.63	N/A	N/A	N/A
Upper Anacostia	165.42	5.34	N/A	N/A	N/A
Earle Place	0.21	0.01	N/A	N/A	N/A

Notes:
1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping Stations

Pumping station operations are summarized in the table below.

Pumping Stations – Inspections and Equipment in Service
November 2012

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	30	4	10	#3 Sanitary Pump #2 Screen	November 1-30 November 1-30	Pump being rehabbed Screen being rehabbed	March 2013 March 2013
Eastside	30	2	4	#2 Screen	November 1-30	Screen being rehabbed	March 2013
Poplar Point	30	2	3	#1 Screen	November 1-30	Screen being rehabbed	March 2013
Potomac	30	4	5	#2 Sanitary Pump #4 Screen	November 1-30 November 1-30	Pump being rehabbed Screen being rehabbed	February 2013 December 2012

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

Pumping Stations – Preventive Maintenance
November 2012

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

Pumping Stations – Pumpage
November 2012

Pumping Station	*Sanitary Pumpage*		*Storm Water/CSO Pumped To Anacostia River*		
	Total Wastewater (mg)	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	1,610.60	53.69	N/A	N/A	N/A
O St	128.90	4.30	N/A	N/A	N/A
Eastside	162.06	5.40	N/A	N/A	N/A
Poplar Point	637.92	21.26	N/A	N/A	N/A
Potomac	3,158.90	105.30	N/A	N/A	N/A
Rock Creek	155.83	5.19	N/A	N/A	N/A
Upper Anacostia	148.96	4.97	N/A	N/A	N/A
Earle Place	0.17	0.01	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping Stations

Pumping station operations are summarized in the table below.

Pumping Stations – Inspections and Equipment in Service
December 2012

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	31	4	10	#3 Sanitary Pump #2 Screen	December 1-31 December 1-31	Pump being rehabbed Screen being rehabbed	March 2013 March 2013
Eastside	31	2	4	#2 Screen #2 Pump	December 1-31 December 26-31	Screen being rehabbed Pump being rehabbed	March 2013 January 2013
Poplar Point	31	2	3	#1 Screen	December 1-31	Screen being rehabbed	March 2013
Potomac	31	4	5	#2 Sanitary Pump #4 Screen #3 Screen #1 Screen	December 1-31 December 1-25 December 27-31 December 9-31	Pump being rehabbed Screen being rehabbed Screen being rehabbed Screen being rehabbed	February 2013 Restored 12/26/2012 January 2013 February 2013

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

Pumping Stations – Preventive Maintenance
December 2012

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	12/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	12/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	12/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	12/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	12/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	12/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	12/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	12/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

Pumping Stations – Pumpage
December 2012

Pumping Station	*Sanitary Pumpage*		*Storm Water/CSO Pumped To Anacostia River*		
	Total Wastewater (mg)	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	1,503.17	48.49	N/A	N/A	N/A
O St	153.60	4.95	12/26	46.60	Normal
Eastside	273.81	8.83	N/A	N/A	N/A
Poplar Point	677.34	21.85	N/A	N/A	N/A
Potomac	3,272.70	105.57	N/A	N/A	N/A
Rock Creek	137.50	4.44	N/A	N/A	N/A
Upper Anacostia	152.71	4.93	N/A	N/A	N/A
Earle Place	0.19	0.01	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

APPENDIX 2-6

Inspection and Maintenance Summaries: Northeast Boundary Swirl Facility

Northeast Boundary Swirl Facility

The Northeast Boundary Swirl Facility provides screening, swirl concentration, chlorination and dechlorination of CSO overflow from CSO 019. The capacity of the facility is 400 MGD. Facility operations are summarized below:

Northeast Boundary Swirl Facility – Inspections and Equipment in Service - 2012

Date Inspected	*# Screens*	*# Swirls*	*Screens or Swirls Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
01/26/12	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a
02/26/12	1, 2 & 3	1, 2 & 3	None	N/a	N/a	N/a
03/26/12	1, 2 & 3	1, 2 & 3	None	N/a	N/a	N/a
04/26/12	1, 2 & 3	1, 2 & 3	None	N/a	N/a	N/a
05/26/12	1, 2 & 3	1, 2 & 3	None	N/a	N/a	N/a
06/26/12	1, 2 & 3	1, 2 & 3	None	N/a	N/a	N/a
07/26/12	1, 2 & 3	1, 2 & 3	None	N/a	N/a	N/a
08/26/12	1, 2 & 3	1, 2 & 3	None	N/a	N/a	N/a
09/26/12	1, 2 & 3	1, 2 & 3	None	N/a	N/a	N/a
10/26/12	1, 2 & 3	1, 2 & 3	None	N/a	N/a	N/a
11/26/12	1, 2 & 3	1, 2 & 3	None	N/a	N/a	N/a
12/26/12	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a

Northeast Boundary Swirl Facility – Preventive Maintenance - 2012

Date Performed	*Type of Preventive Maintenance Performed*	*Comments*
01/27/12	Group A	
02/27/12	Group A	
03/27/12	Group A	
04/26/12	Group A	
05/27/12	Group A	
06/27/12	Group A	
07/27/12	Group A	
08/27/12	Group A	
09/27/12	Group A	
10/25/12	Group A	
11/25/12	Group A	
12/25/12	Group A	

APPENDIX 2-7

Inspection and Maintenance Summaries: Inflatable Dams

Inflatable Dams

The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflow occurs.

Inflatable Dams – Inspections and Equipment in Service – 2012

Inflatable Dam Structure No	*Date Inspected*	*Was Dam Out of Service During the Month?*	*Dates out of Service*	*Reason*	*Schedule to Restore to Service*
14 - East	01/20, 2/20,3/20,4/20, 5/20, 6/20, 7/20, 8/20, 9/20, 10/20, 11/20, 12/20	**No**	**N/A**	**N/A**	**N/A**
14 - West	01/20, 2/20, 3/20, 4/20, 5/20, 6/20, 7/20, 8/20, 9/20, 10/20, 11/20, 12/20	**No**	**N/A**	**N/A**	**N/A**
15	01/20, 2/20, 3/20, 4/20, 5/20, 6/20, 7/20, 8/20, 9/20, 10/20, 11/20, 12/20	**No**	**N/A**	**N/A**	**N/A**
15A	01/20, 2/20, 3/20, 4/20, 5/20, 6/20, 7/20, 8/20, 9/20, 10/20, 11/20, 12/20	**No**	**N/A**	**N/A**	**N/A**
16 - East	01/20, 2/20, 3/20, 4/20, 5/20, 6/20, 7/20, 8/20, 9/20, 10/20, 11/20, 12/20	**No**	**N/A**	**N/A**	**N/A**
16 - West	01/20, 2/20, 3/20, 4/20, 5/20, 6/20, 7/20, 8/20, 9/20, 10/20, 11/20, 12/20	**No**	**N/A**	**N/A**	**N/A**
24 - North	01/20, 2/20, 3/20, 4/20, 5/20, 6/20, 7/20, 8/20, 9/20, 10/20, 11/20, 12/20	**No**	**N/A**	**N/A**	**N/A**
24 - Middle	01/20, 2/20, 3/20, 4/20, 5/20, 6/20, 7/20, 8/20, 9/20, 10/20, 11/20, 12/20	**No**	**N/A**	**N/A**	**N/A**
24 - South	01/20, 2/20, 3/20, 4/20 5/20, 6/20, 7/20, 8/20, 9/20, 10/20, 11/20, 12/20	**No**	**N/A**	**N/A**	**N/A**
34	01/20, 2/20, 3/20, 4/20, 5/20, 6/20, 7/20, 8/20, 9/20, 10/20, 11/20, 12/20	**No**	**N/A**	**N/A**	**N/A**
35	01/20, 2/20, 3/20, 4/20, 5/20, 6/20, 7/20, 8/20, 9/20, 10/20, 11/20, 12/20	**No**	**N/A**	**N/A**	**N/A**
52	01/20, 2/20, 3/20, 4/20, 5/20, 6/20, 7/20, 8/20, 9/20, 10/20, 11/20, 12/20	**No**	**N/A**	**N/A**	**N/A**

Section 3
Maximize Use of Collection System for Storage

3.1 NPDES PERMIT REQUIREMENTS

For this NMC, the NPDES permit requires that DC Water operate and maintain the inflatable dams to maximize storage in the CSS.

3.2 INFLATABLE DAM OPERATION

The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflows occur. The effect of the installation is to retain a greater volume of combined sewage flow resulting from low to moderate intensity storms by maximizing storage within the CSS. During higher intensity storms, when the full carrying capacity of the overflow conduit is required to prevent upstream flooding, the dam is deflated automatically based on a signal from an upstream level sensor. During dry weather conditions the dams are normally maintained fully inflated under low pressure.

Inspection and maintenance of the inflatable dams are addressed in Section 2.

Section 4
Pretreatment Program

4.1 NPDES PERMIT REQUIREMENTS

The NPDES Permit requires the following:

- Use pretreatment regulations to control any industrial discharges that may be identified as impacting CSOs

- Use pretreatment regulations to require permitted significant industrial users (SIUs) discharging directly to the CSS to establish management practices to limit (e.g., use of control, detention or prohibition) batch discharges during wet weather conditions to the maximum extent feasible. Conduct an annual inspection of the above users to identify the existence of any batch discharges. Evaluate batch discharges identified to determine whether and to what extent limitations are appropriate during wet weather, taking into consideration volume, frequency, characteristics and the need to protect life and property.

- Prepare an Annual Report by March 31 of each year addressing the following items for the prior calendar year:
  - Industrial Listing
  - Control Mechanism Issuance
  - Sampling and Inspection
  - Industrial User (IU) Compliance and POTW Enforcement
  - Summary of POTW Operations
  - Pretreatment Program Changes
  - Signatory Requirement

4.2 INDUSTRIAL DISCHARGES IMPACTING CSOs

As part of the development of its Long Term Control Plan (LTCP), DC Water conducted an extensive sampling program for CSO overflows. Toxic or other parameters typical of industrial discharges were not found to be impacting CSOs. Indeed, the concentration of metals and other parameters in CSOs was found to be similar to the concentrations of those parameters in storm water runoff. This suggested that the source of these parameters was urban runoff.

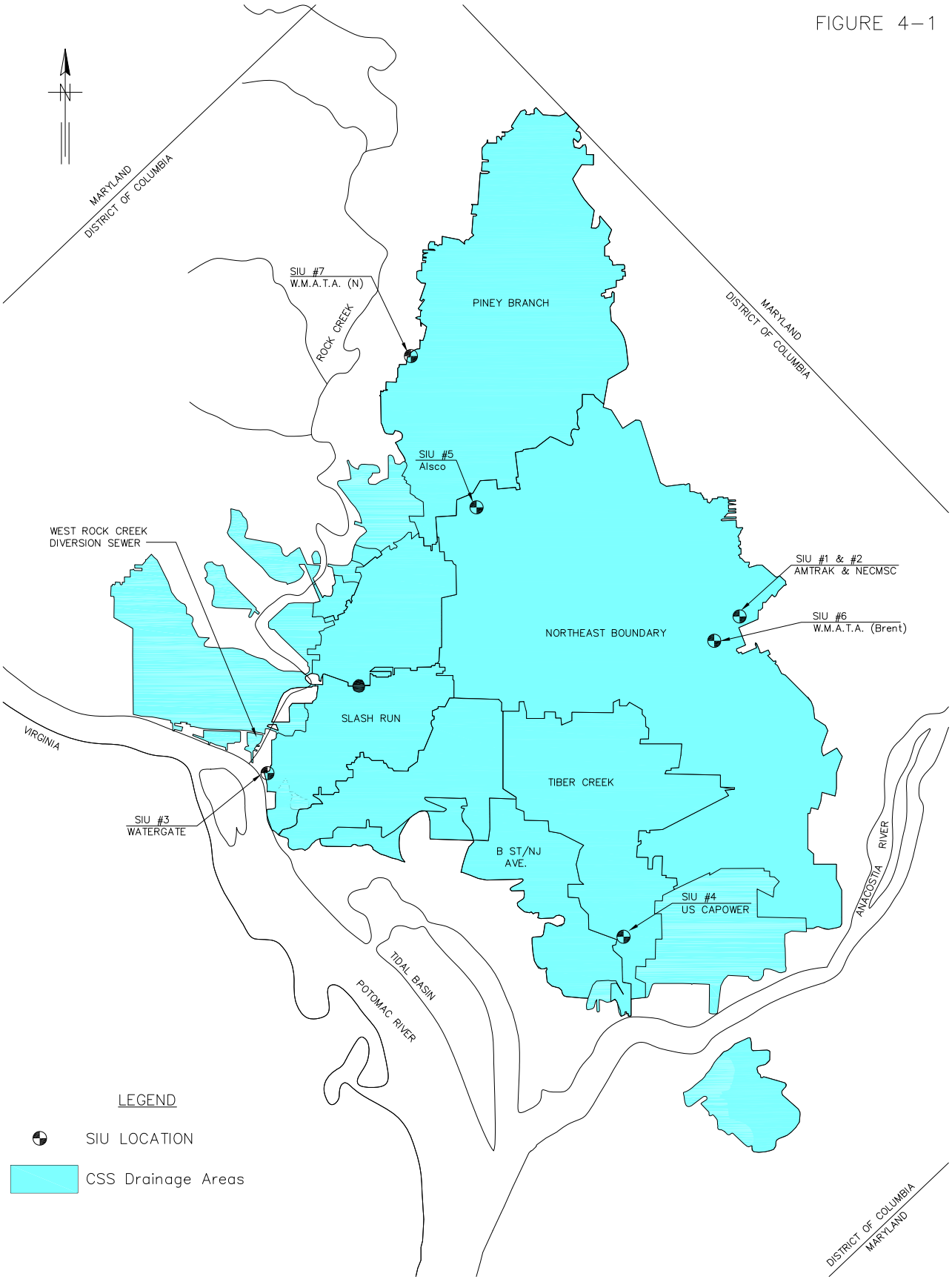
4.3 ANNUAL REPORT

DC Water generates and submits a Pretreatment Program Annual Report to the EPA Region III by March 31st of each year. This report is submitted to EPA under separate cover. Only Part B of the Annual Report is provided here as Appendix 4-1 and the Attachment 6 referred in it is not included for brevity.

4.4 SIGNIFICANT INDUSTRIAL USERS

Based on annual inspections performed by DC Water's Pretreatment and Lab Section, the SIUs in Table 4-1 have been identified to be within the CSS area. The location of each SIU is shown on Figure 4-1.

FIGURE 4-1



LOCATIONS OF SIGNIFICANT INDUSTRIAL USERS
IN CSS DRAINAGE AREAS

SCALE: 1"=70,000'

PROGRAM CONSULTANT'S ORGANIZATION

DC WATER
NINE MINIMUM CONTROL ANNUAL REPORT

FILE: LTCP\DOCUMENTS\05\0502\NPDES PERMIT\NMC ANNUAL REPORTS\2012 NMC REPORT\FIGURES\Figure 4-1.DWG

Table 4-1
Significant Industrial Users in CSS Area

#	Permit No.	Industrial User	Facility Address	Batch/Intermittent Discharges
1	011	Amtrak	1401 W Street, NE Washington, DC 20018	Train Wash
2	054	Amtrak – High Speed Rail	1401 W St., NE Washington, DC 20018	Train Wash
3	039	Greenpenz (formerly Bentley Forbes Watergate)	2500 Virginia Ave., NW Washington, DC 20037	None (no report required groundwater only)
4	022	Capitol Power Plant	N. Jersey Ave & E St., SE Washington, DC 20003	None
5	029	Alsco (formerly Linens of the Week)	713 Lamont Street, NW Washington, DC 20010	None
6	053	WMATA Brentwood Yard	601 T Street, NE Washington, DC 20018	Steam Cleaning
7	005	WMATA Northern Garage	4615 14th Street, NW Washington, DC 20011	Steam Cleaning/Bus Wash

WMATA = Washington Metropolitan Area Transit Authority

4.5 SIGNIFICANT INDUSTRIAL USER DISCHARGE PERMIT

In compliance with EPA Region III requirements, DC Water has issued special condition permits to those SIUs discharging to the combined sewer system. These special condition permits have standard language requiring submittal of annual reports (due March 31 of the following year) documenting batch, intermittent, and continuous discharge activity. Based on these reports, DC Water will evaluate the need to place wet weather restrictions on those batch discharges identified, depending on the volume and frequency of their discharge, water quality characteristics, and safety issues.

In addition, the permit requires users to sample the discharge points semiannually and to create and submit a spill prevention/slug control plan that identifies discharge practices, procedures to prevent spills/slugs, procedures to notify DC Water of spills/slugs and control measures to minimize damage from spills/slugs. DC Water also performs annual sampling and inspections of each discharger to confirm compliance with permit requirements.

APPENDIX 4-1

PART B
PRETREATMENT DEVELOPMENTS

PART B
PRETREATMENT DEVELOPMENTS

I. Summary of POTW Operations

1. The Blue Plains Advanced Wastewater Treatment Plant (AWTP) did not have any NPDES permit violations in 2012.

2. As required by the NPDES permit, plant influent, effluent, and biosolids data for all local limit parameters are submitted to EPA Region III on a quarterly basis with the Discharge Monitoring Reports (DMRs) by the 28th day of the following month. Additionally, a complete priority pollutant scan is conducted annually on the influent and biosolids. The 2012 influent, effluent, and biosolids concentrations for the local limit pollutants are provided in a summary table in Attachment 6. The annual priority pollutant scan and additional data collected, but not documented in the summary table, are also provided in Attachment 6. Influent values are calculated based on an estimated flow-weighted average of three contributing waste streams and are reported as "<" if at least one of the individual waste streams was non-detect for that parameter. Influent goals are based on EPA Region III's evaluation of DC Water's local limits published in the DC Register on September 10, 2010. Influent goals were consistently met in 2012, and influent pollutant concentrations have remained fairly consistent with minor fluctuations.

3. DC Water currently accepts hauled waste from domestic, commercial, and pre-approved industrial sources at the headworks to the Blue Plains AWTP. Additional hauled waste is received from WSSC, Fairfax County, and Loudoun Water at designated septage receiving stations. Table B-1 summarizes the hauled waste contributions to the Blue Plains AWTP. Loudoun Water opened their septage receiving station that discharges to the Potomac Interceptor (and ultimately to the Blue Plains AWTP) from September 20 through December 31, 2012, due to mechanical failure of the screening equipment at their Broad Run Wastewater Reclamation Facility Septage Receiving Facility. No brine wastes (oil and gas drilling wastes) are accepted at any of the designated septage receiving stations.

   All jurisdictions require waste hauler permits, although in Fairfax County, the permit is issued by the Health Department. As of December 31, 2012, DC Water had 16 permitted waste haulers, WSSC had 40 permitted waste haulers, Fairfax County has 51 permitted waste haulers, and Loudoun Water had 15 permitted waste haulers. DC Water permits require manifest forms, documenting the source and volume of each load, be submitted prior to receiving access to the facility to discharge.

PART B (Continued)
PRETREATMENT DEVELOPMENTS

I. Summary of POTW Operations (Continued)

Table B-1. Summary of Hauled Waste Discharged to the Blue Plains AWTP

Jurisdiction	Discharge Site	Sources of Wastewater	Estimated Volume/Mo.	Controls on Users
DC Water	Blue Plains AWTP	Domestic and commercial (portable toilets, domestic holding tanks, sewage ejector pits, grease trap waste, and non-wastewater discharges)	1,073,502 gal/mo (435 loads)	Manned site, permits, manifests, random sampling
WSSC	Muddy Branch	Domestic and commercial (portable toilets, septic tanks, and grease trap waste)	Unknown	Permits, restricted hours, surveillance cameras, fines, self-monitoring (sludge)
WSSC	Tanglewood	Domestic	Unknown	Permits, restricted hours, surveillance cameras, fines
WSSC	Montgomery Co. Solid Waste Disposal Site	Industrial - Oaks Sanitary Landfill leachate	Approx 500,000 gal/mo. 80,000 gpd max	SIU permit
Fairfax Co.	Colvin Run	Domestic and commercial (67% septic tanks, 29% portable toilets, 3% grease trap waste from restaurants, and 1% car washes)	1,000,000 gal/mo (est.) (530 loads)	Permits (Health Dept), restricted access, random sampling, surveillance cameras
Loudoun Water	Russell Branch Sewer (S-17)	Domestic septic tanks and sludge from LW community system WWTPs	16,000 gal/3 mo	Permits, restricted access, surveillance cameras

Domestic sources of wastewater are primarily septic holding tanks and portable toilets. The majority of commercial wastewater is from grease traps. Other commercial sources of wastewater are storm runoff (from an off-site biosolids storage facility and maintenance of water quality catch basins) and car washes. Industrial sources of wastewater are landfill leachate from Oaks Sanitary Landfill (80,000 gpd max). Oaks Sanitary Landfill is permitted as a Significant Industrial User by WSSC and the permit contains requirements for monitoring, reporting, and pre-treating their waste.

PART B (Continued)
PRETREATMENT DEVELOPMENTS

I. Summary of POTW Operations (Continued)

3. The amount of wastewater received from waste haulers discharging at the Blue Plains AWTP Septage Receiving Facility during 2012 averaged 1,073,502 gallons or 435 loads per month. Random sampling is conducted by DC Water on the hauled waste to characterize the waste and to help ensure that hazardous waste is not being brought onto the plant by these waste haulers. Samples are collected at least monthly by DC Water and analyzed for pH, oil and grease, total metals, PCBs, and conventional pollutants. Trucked waste must meet local limits. Five notices of violation were issued to haulers in 2012 for exceedances of local limits, specifically for pH, copper, zinc, and PCBs.

   Many of the SIUs within the District have waste hauled off-site for disposal. Table B-2 summarizes the information updated during the 2012 inspections. Recycled wastes including used oil, fryer oil, and silver recovery waste is not included in this table.

Table B-2. Summary of Hauled Waste from SIUs in the District

Type of Hauled Waste	Description of Operations that Generate the Waste	Name(s) of Facilities Used by SIUs for Waste Disposal and Disposal Location (if known)
Oily wastewater/ pretreatment sludge and other non-hazardous waste	Maintenance cleaning activities, treatment residuals	Bishop & Assoc (Baltimore, MD or Cycle Chem/Lewisberry, PA) Clean Harbors (Baltimore, MD/Reidsville, NC) Clean Ventures (Cycle Chem/Lewisbury, PA) Combs Industrial Services (Nashville, TN) Environmental Waste Specialist (FCC or Water Depot) FCC (Alexandria, VA) Magnolia Plumbing (Metrex/Hyattsville, MD) Monarch Environmental Petroleum Management Inc. Potomac Environmental (Giant Resource Recovery, Sumter, SC) Safety Kleen (Manassas, VA) Sphinx (Spirit Services in Williamsport, MD) Triumvirate Environmental (Baltimore, MD)
Grease trap waste	Cafeteria cleaning activities	Action Tank and Drain (Fairfax, VA) Adams Liming and Septic Tank (Fairfax, VA) Magnolia Plumbing (WSSC)
Spent car wash reclaim	Vehicle cleaning activities	Adams Liming and Septic Tank (Fairfax, VA) Capitol Tank and Drain Safety Kleen (Manassas, VA)
Bucket wash solution	Cleaning of paint drums	Dupont/Chamber Works (Deepwater, NJ)
Hazardous waste	Cleaning, lab waste, solvent use, etc.	Clean Harbors (Baltimore MD/Reidsville, NC) Clean Ventures (Cycle Chem/Lewisbury, PA) EMSI (Env Enterprises/Cincinnati, OH) Tradebe (E. Chicago, IN)

PART B (Continued)
PRETREATMENT DEVELOPMENTS

II. Pretreatment Program Changes

Staffing, Funding, and Local Limits

There was no change in staffing or funding of the District's pretreatment program in 2012 and no significant changes in the staffing and funding of the jurisdiction programs. There were no changes to the local limits approved by EPA Region III on May 25, 2010 and adopted by DC Water in a Final Rulemaking published on September 10, 2010.

Streamlining Changes

DC Water and the User Jurisdictions are either in the process of adopting the required changes or have finalized the required changes in response to the streamlining amendments promulgated by EPA, as discussed below:

- DC Water published the Final Rulemaking for the Wastewater Discharge Regulations (21 DCMR Chapter 15) on February 10, 2012 and were submitted electronically to EPA Region III. The Final Rulemaking for the Wastewater Discharge Regulations, the 2010 Wastewater System Regulation Amendment Act, and revised Enforcement Response Plan (ERP) will be submitted to EPA Region III in DC Water's final pretreatment program modification package.

- The 2011 WSSC Plumbing & Fuel Gas Code became effective on July 1, 2011. This code has not previously been submitted to EPA Region III; however, it is available on their website at http://www.wsscwater.com/home/jsp/content/plumb-gas-code.faces, and will be submitted to EPA Region III in DC Water's final pretreatment program modification package. The WSSC ERP was modified December 2010 and is available at http://www.wsscwater.com/file/ERP%20121310.pdf. The WSSC ERP will be submitted to EPA Region III in DC Water's final pretreatment program modification package.

- The Fairfax County Code, Chapter 67.1 Sanitary Sewers and Sewage Disposal, has incorporated required Pretreatment Streamlining changes and was approved and adopted by the Fairfax County Board of Supervisors on October 19, 2010. The Fairfax County Code, Chapter 67.1 Sanitary Sewers and Sewage Disposal, is available on their website at http://www.fairfaxcounty.gov/dpwes/wastewater/industrialwaste/discharge.htm#limits and will be submitted to EPA Region III in DC Water's final pretreatment program modification package. The Virginia DEQ approved Fairfax County's ERP (dated October 2011) on February 9, 2012. The Fairfax County ERP will be submitted to EPA Region III in DC Water's final pretreatment program modification package.

Streamlining Changes (Continued)

- The Town of Herndon discharges to Fairfax County, and this wastewater flows to the Blue Plains AWTP. The Town of Herndon adopted a revised ordinance on January 24, 2012, which will be submitted to EPA Region III in DC Water's final pretreatment program modification package. The Town of Herndon uses Fairfax County's ERP as a guide and through their Pretreatment Agreement, Fairfax County can enforce pretreatment violations within the Town of Herndon, if needed.

- Loudoun Water has drafted proposed ordinance changes to incorporate the required streamlining changes and the draft ordinance has been reviewed by Virginia DEQ and EPA Region III. In January 2013, the Loudoun Water Board of Supervisors passed a resolution to send the Pretreatment Ordinance to the County Attorney for review. Following this review, the ordinance will go the County Board of Supervisors for promulgation. Loudoun Water's ERP was approved by the Loudoun Water CIP Committee on February 27, 2013, and will go to the full Board for approval following promulgation of the Pretreatment Ordinance by the County. Loudoun Water's draft ordinance and draft ERP are included in this report in Attachment 4. The final ordinance and ERP, once adopted, will be submitted to EPA Region III in DC Water's final pretreatment program modification package.

III. Miscellaneous Developments

Control of Batch Discharges During Wet Weather

As part of the Combined Sewer Overflow (CSO) Nine Minimum Controls, DC Water is required by NPDES permit to 1) use pretreatment regulations to control any industrial discharges that may be identified as impacting CSOs and 2) to require permitted SIUs discharging directly to the CSS to establish management practices to control batch discharges during wet weather conditions whenever possible.

There are seven (7) SIUs that currently discharge directly to the combined sewer system. A list of these facilities is provided in Table B-3. Each facility has a permit requirement to prepare an annual report identifying all batch discharges to the combined sewer system, with the exception of the Watergate Hotel, currently known as Greenpenz, 2600 Virginia Ave., LLC, which is only permitted for their groundwater remediation system and has a continuous operation. These annual reports were due March 31, 2012. Following DC Water review, it was determined that all SIU discharges were either continuous or intermittent and that none of these discharges met the definition of a batch discharge. Some facilities have voluntarily developed management practices to minimize intermittent discharges during wet weather, but DC Water is not requiring development of management practices to control intermittent discharges at this time, since no pollutants of concern in combined sewer overflows have been attributed to these discharges.

PART B (Continued)
PRETREATMENT DEVELOPMENTS

Table B-3. Significant Industrial Users Discharging Directly to Combined Sewers

#	Permit No.	Industrial User	Facility Address	Batch/Intermittent Discharges
1	011	Amtrak	1401 W Street, NE Washington, DC 20018	Train Wash
2	054	Amtrak – High Speed Rail	1401 W St., NE Washington, DC 20018	Train Wash
3	039	Greenpenz (formerly Bentley Forbes Watergate)	2500 Virginia Ave., NW Washington, DC 20037	None (no report required groundwater only)
4	022	Capitol Power Plant	N. Jersey Ave & E St., SE Washington, DC 20003	None
5	029	Alsco (formerly Linens of the Week)	713 Lamont Street, NW Washington, DC 20010	None
6	053	WMATA Brentwood Yard	601 T Street, NE Washington, DC 20018	Steam Cleaning
7	005	WMATA Northern Garage	4615 14th Street, NW Washington, DC 20011	Steam Cleaning/Bus Wash

WMATA = Washington Metropolitan Area Transit Authority

Pollution Prevention

DC Water has incorporated pollution prevention (P2) surveys into the routine annual inspections of SIUs. P2 surveys are conducted every two years and significant P2 accomplishments or deficiencies may be noted annually in the inspection report. These surveys were conducted in 2012. DC Water has ongoing public education efforts to reduce influent mercury concentrations including posting educational content on our website, permitting hospitals in the area (as Non-Significant Industrial Users), and adoption of mercury amalgam Best Management Practices for dental facilities.

WSSC worked on a number of pollution prevention initiatives in 2012 and continues to promote the following:

- Hospital and Healthcare Facility Waste Best Management Practices;
- Best Management Practices for dental facilities;
- Recommendations for disposal of prescription drugs;
- Surveys of dry cleaners and initiation of an oil/water separator inspection program; and
- Continuation of the annual Pollution Prevention Award program.

PART B (Continued)
PRETREATMENT DEVELOPMENTS

Industrial User Survey

DC Water is actively surveying, sampling, and/or inspecting non-permitted commercial/ industrial users to determine whether facilities should be permitted and assist them in conforming to the District of Columbia municipal regulations on wastewater discharges. DC Water has developed a network of contacts at other agencies in the District of Columbia to obtain information on potential violators including the District Department of Public Works, the Mayor's Neighborhood Service Coordinators, and the District of Columbia Department of the Environment Hazardous Waste and Water Quality Divisions. In addition, DC Water periodically reviews queries of commercial and federal accounts for new connections and users that consume more than 25,000 gpd of water.

Temporary Discharge Authorizations

As of December 31, 2012, DC Water had 57 active Temporary Discharge Authorization (TDA) permits for discharges to the sanitary or combined sewer system consisting primarily of construction dewatering, façade cleaning, and other miscellaneous discharges. The maximum permit term is two years. Most of these permits require periodic self-monitoring, depending on flow and the characteristics of the wastewater discharge.

IV. Signatory Requirements

The Assistant General Manager (AGM) of Wastewater Treatment has signed Part A of this report. This individual is directly responsible for wastewater treatment plant operations and has been authorized to sign the report by the General Manager (written authorization letter dated November, 1, 2011, and previously submitted to EPA Region III).

Section 5
Maximize Flow to Treatment Plant

5.1 NPDES PERMIT REQUIREMENTS

For this NMC, the NPDES permit requires the following:

- During wet weather, operate the pumping stations and collection system to deliver the maximum flow possible to the BPAWWTP within the constraints of the pumping stations, configuration and capacity of the collection system, and the capacity of the treatment plant.

- Develop a reporting system to show that operation of the pumping stations has been maximized during wet weather and that the maximum flow possible is being delivered to the BPAWWTP for treatment within the constraints of the pumping stations, collection system and treatment plant. Report such operations for each wet weather event.

- Maintain pumps to maximize flow to Blue Plains.

- The permittee shall ensure that the collection system has the capacity to convey flows at a rate totaling atleast 1076 mgd to Blue Plains for treatment.

5.2 PUMPING STATION OPERATION

DC Water operates its pumping stations to deliver the maximum flow possible to BPAWWTP within the constraints of the pumping stations, configuration and capacity of the collection system, and the capacity of the treatment plant. BPAWWTP is currently undergoing a construction program to improve performance and reliability at the facility. During this program, the permit specifies that the plant flow limits during wet weather are as follows:

Time Period	*Complete Treatment Rate (Discharge at Outfall 002)*	*Excess Flow Treatment Rate (Discharge at Outfall 001)*	*Total Treatment Rate*
First 4 hours	Up to 511 mgd	Up to 336 mgd	Up to 847 mgd
After 4 hours	Up to 450 mgd	Up to 336 mgd	Up to 786 mgd

Appendix 5-1 presents the maximum hourly flow rates at BPAWWTP based on hourly readings. The data demonstrate that the plant is consistently providing complete treatment to more flow than is required by the NPDES permit.

5.3 REPORTING SYSTEM

DC Water reports on the operation of the pumping stations that deliver flow to the BPAWWTP in its quarterly CSO reports. Further, DC Water has developed a reporting system in draft format and is refining the system.

5.4 MAINTAIN PUMPING STATIONS

Documentation of pumping station maintenance and equipment serviceability is included in Section 2, Appendix 2-4.

DC Water has upgraded the pumping stations listed in Table 5-1 below. Certification for the Potomac Pumping Station is pending. All other stations listed now function at firm capacity.

Table 5-1
Pumping Station Design Firm Capacities

Facility	*Planned Design Firm Capacity*(1)	*Deadline for Placing in Operation*
Potomac Pumping Station	460 mgd	(2)
Main Pumping Station	Sanitary Pumps – 240 mgd	Completed
O Street Pumping Station	Sanitary Pumps – 45 mgd	Completed
Poplar Point Pumping Station	45 mgd	Completed
East Side Pumping Station	45 mgd	Completed

Notes:

(1) Firm capacity is the capacity with the largest pump out of service.

(2) The deadline in the Three Party Consent Decree is September 1, 2008. DC Water has declared Force Majeure and is completing work at the station. DC Water anticipates completion in 2013.

5.5 ENSURE COLLECTION SYSTEM HAS 1076 MGD CONVEYANCE CAPACITY

In accordance with the Three Party Consent Decree, DC Water rehabilitated the Blue Plains influent sewers on April 1, 2011. The purpose of the rehabilitation, in part, is to achieve 1076 mgd of conveyance capacity. In addition, DC Water continues to work on achieving the firm pumping capacity for the Potomac Pumping Station in accordance with paragraph V.12. (e) of the Decree. However, as noted in our February 8, 2012 letter to Earthjustice with copy to EPA and DOJ, DC Water has concluded that the collection system has the capacity to convey 1,076 mgd to Blue Plains with Potomac Pump Station at its current capacity of 425 mgd.

APPENDIX 5-1

BPAWWTP Flow Summaries

Date (1)	Rainfall at National Airport, inches (2)	Maximum Hourly Flow to Excess Flow Treatment Outfall 001 mgd	Maximum Hourly Flow to Complete Treatment Outfall 002 mgd
1/11/2012,1/12/2012	0.75	97	599
1/17/2012	0.26	0	414
1/21/2012	0.23	0	361
1/27/2012	0.63	0	530
2/24/2012	0.31	0	448
2/29/2012	1.44	66	563
3/2/2012	0.34	0	433
3/25/2012	0.2	0	324
4/22/2012	1.27	0	562
5/9/2012	0.58	0	465
5/14/2012, 5/15/2012	1.46	0	562
5/23/2012	0.31	0	486
5/29/2012	0.51	0	495
6/1/2012	1.22	0	528
6/12/2012	0.26	0	390
6/18/2012	0.28	0	343
6/29/2012	0.59	0	470
7/8/2012,7/9/2012,7/10/2012	1.55	81	568
7/19/2012	0.42	67	549
7/21/2012	0.21	0	396
7/28/2012	0.27	0	324
8/10/2012	0.59	0	465
8/14/2012	0.2	0	318
8/19/2012	0.36	0	507
8/21/2012	0.59	0	421
8/22/2012	0.35	0	343
8/26/2012	0.28	0	461
9/1/2012	1.64	0	440
9/6/2012	0.24	0	360
9/8/2012	0.49	0	515
9/18/2012	0.93	0	522
9/27/2012, 9/28/2012	0.73	0	483
10/2/2012	0.43	0	566
10/19/2012	0.24	0	457
10/29/2012, 10/30/2012	4.69	270	548
11/13/2012	0.5	0	418
12/20/2012, 12/21/2012	0.82	0	326
12/26/2012	1.42	250	538

Notes:

(1) By observing the trend of the plant flows, rain events were grouped if they appeared to have occured continuously over consecutive days

(2) Rainfall events 0.2" or greater are shown.

Section 6
Dry Weather Overflows

6.1 NPDES PERMIT REQUIRMENTS

The NPDES Permit prohibits dry weather overflows (DWOs) from CSO outfalls. However, there is recognition that some DWOs may occur due to unavoidable conditions such as debris, pipe failure or other reasons. Given this situation, the permit requires the following:

- When a dry weather overflow is detected, DC Water is required to begin corrective action immediately. DC Water must inspect the dry weather overflow each subsequent day until the overflow has been eliminated

- Maintain a program to enlist public support for reporting DWOs.

- Receive reports of DWOs on a 24- hour basis. Report each confirmed DWO to the District of Columbia Department of the Environment and EPA Region III within 24 hours of being aware of the DWO. In addition, DC Water is required to submit a written report to EPA Region III within 5 days of the time DC Water becomes aware of the DWO.

6.2 BACKGROUND

In the CSS, sanitary wastewater and storm water are collected and diverted to the BPAWWTP at facilities called regulators. During periods of rainfall, the capacity of a combined sewer may be exceeded. When this occurs, regulators are designed to discharge the excess flow directly to the Anacostia River, Rock Creek, the Potomac River, or tributary waters. This excess flow is called Combined Sewer Overflow (CSO). Release of the excess flow is necessary to prevent flooding of homes, basements, businesses, and streets. CSOs are designed to occur during wet weather events and will occur when the system is functioning normally.

During dry weather conditions, sanitary wastewater in the combined sewer system should not be discharged to the receiving waters. However, debris, trash, and other materials can block regulators and affect the regulators function, sometimes resulting minor overflows during dry weather. There can also be overflow due to vital infrastructural breakdown such as a cut in power supply. These occurrences are called dry weather overflows (DWOs). Dry weather overflows are prohibited by DC Water's NPDES Permit.

DC Water maintains an aggressive program to prevent DWOs and to correct any DWOs that are identified.

6.3 DWOs DURING REPORTING PERIOD

There were six (6) dry weather combined sewer overflows during the year 2012.

Table 6-1

Dry Weather Discharges

Location	27th Street and I Street NW.
Cause	During their monthly scheduled structure inspection, a sewer maintenance crew observed sewage overflowing at diversion structure #036 at 27th St. and I St. NW. Upon further investigation, the crew found a long wooden plank wedged across the 2.5ft x 3ft opening in the 4.5ft combined sewer causing a building of sticks and other debris that obstructed the flow through the diversion structure causing a back up and overflow into the Rock Creek Diversion Sewer that flow into the Potomac River at the outfall (CSO #022).
Date/ Time Discovered	August 15, 2012 at 10:10 am
Action Taken	The DC Water crew removed the log and cleared the 4.5ft sewer at approximately 11:15 am.
Date/Time Discharge Ceased	August 15, 2012 at 11:15 am
Estimated Volume	3300 gallons
Did Overflow Reach Receiving water?	Yes. Potomac River.
Action taken to prevent reoccurrence	On August 16, 2012, diversion structure #036 was re-inspected and was found to be in working condition.

Location	29th and K Streets, NW.
Cause	A sewer maintenance crew from the District of Columbia Water and Sewer Authority during a monthly scheduled inspection observed sanitary waste overflowing diversion structure #038. Upon further investigation, the crew found that a buildup of grease and other debris had clogged the 18 inch connecting pipe from the West Rock Creek Diversion Sewer to the Upper Potomac Interceptor and obstructed flow through the structure causing it to back up and overflow in the Potomac River at the outfall (CSO #24).
Date/ Time Discovered	December 17, 2012 at 12:00 PM
Action Taken	The DC Water crew cleared the line and flushed it with a degreasing chemical.
Date/Time Discharge Ceased	December 17, 2012 at 9:30 PM
Estimated Volume	30,000 gallons
Did Overflow Reach Receiving water?	Yes. Potomac River.
Action taken to prevent reoccurrence	DC Water will identify the food service establishments that contributed to the grease problem and take corrective action to prevent a recurrence at this location. A follow up inspection performed on December 19th, 2012 confirmed that the structure was functioning properly.

Overflows in Separate Sanitary Area

Location	On the campus of Georgetown University. Canal Road, east of Foxhall Road, NW.
Cause	A sewer maintenance crew from DC Water during routine outfall inspection observed a sanitary leak into the Potomac River in Washington, DC. The crew found a separated joint on an 18" sanitary sewer inside a storm line on Georgetown University campus to be the cause of the leak.
Date/ Time Discovered	April 5, 2012 at 1:45 pm
Action Taken	DC Water immediately authorized Corinthian Construction Inc. to set up bypass pumping operations to divert the sanitary discharge from the storm sewer into a sanitary line. DC Water also authorized Corinthian Construction to continue to by-pass the flow in the pipe until repairs were made on the 18" sanitary sewer. Corinthian Construction then mobilized equipment onsite and used a collar, fabric wrap & quick setting cement to stop the leak in the sanitary sewer.
Date/Time Discharge Ceased	April 6, 2012 at 6:00 pm
Estimated Volume	No estimate.
Did Overflow Reach Receiving water?	Yes. Potomac River
Action taken to prevent reoccurrence	On April 20, 2012 and April 27, 2012, DC Water crews inspected the repair work. There were no leaks. We plan to rehabilitate the 18" sanitary sewer by using a cast-in-place trenchless product.

Location	Wheeler Road and Varney Street NE.
Cause	A sewer maintenance crew from the District of Columbia Water and Sewer Authority was dispatched to investigate a service call regarding a sewer odor at Wheeler Rd and Varney St, SE. The crew found that sewage was seeping through the pick holes of a manhole cover in the roadway in front of 900 Varney Street, SE. There was a buildup of grease in a 10 inch sanitary sewer causing the problem. The flow through the pick holes entered a nearby 27 inch storm sewer.
Date/ Time Discovered	July 27, 2012 at 11:00 am
Action Taken	The DC Water crew removed the grease blockage from the 10 inch sanitary sewer at approximately 1:00 pm.
Date/Time Discharge Ceased	July 27, 2012 at 1:00 pm
Estimated Volume	600 gallons
Did Overflow Reach Receiving water?	Yes. Oxon Run Creek.
Action taken to prevent reoccurrence	On July 30, 2012, DC Water crews used the close circuit television camera (CCTV) to assess the condition of the 10 inch sewer. The pipe is structurally sound, but the crew removed a wooden plank across the pipe channel that contributed to the grease build up in the line.

Location	Beech St. and 32nd St. NW.
Cause	A sewer maintenance crew from the District of Columbia Water and Sewer Authority was dispatched to investigate a service call regarding a sewer leak coming from a manhole at 3129 Beech St NW. The crew found three manholes obstructed. There was a piece of milled asphalt in a 10 inch sanitary sewer causing the problem. The flow through the manholes entered Pinehurst Branch.
Date/ Time Discovered	October 28, 2012 at 3:30 pm
Action Taken	The DC Water crew removed milled asphalt from a 10 inch sanitary sewer.
Date/Time Discharge Ceased	October 28, 2012 at 6:30 pm
Estimated Volume	2,000 gallons
Did Overflow Reach Receiving water?	Yes. Pinehurst Branch, a tributary into Rock Creek.
Action taken to prevent reoccurrence	The Department of Engineering and Technical Services has assigned engineering consultants Arcadis/Malcolm Pirnie and one of their CCTV contractors to perform in-depth inspection and condition assessment of all the sewers in the area to make recommendations on action needed to prevent a recurrence.

Location	East Beach Dr. and Redbud Lane, NW.
Cause	A sewer maintenance crew from the District of Columbia Water and Sewer Authority was dispatched to investigate a service call regarding an overflowing sewer manhole on the Maryland side of the District Line near East Beach Dr. and Redbud Lane, NW. The crew found a manhole that brings flow from Maryland into the District blocked with grease and overflowing into nearby unnamed stream.
Date/ Time Discovered	November 17, 2012 at 10:49 AM
Action Taken	The DC Water crew cleared the line and flushed it with a degreasing chemical.
Date/Time Discharge Ceased	November 17, 2012 at 2:30 PM
Estimated Volume	4,500 gallons
Did Overflow Reach Receiving water?	Yes. An unnamed stream that is a tributary to Rock Creek.
Action taken to prevent reoccurrence	DC Water has contacted Washington Suburban Sanitary Commission to monitor grease activity in the vicinity and plan to use a closed circuit television camera to evaluate the condition of the 12 inch sewer crossing to determine whether additional steps may be needed to prevent a recurrence.

6.4 PUBLIC PROGRAM TO REPORT DWOs

Part of DC Water's program to prevent and report DWOs includes use of their website as a tool to inform and involve the public. The website includes an explanation and photos of how littering and improper debris disposal can increase the potential for DWOs. Furthermore, it describes DC Water's maintenance program for debris control and removal. In addition, the website also provides a telephone number that the public can call to report a Dry Weather Overflow. Printouts of excerpts from DC Water's website can be found in Appendix 9-1.

Besides the website, DC Water also includes biannual mailers in residents' water and sewer bills. These mailers, entitled "Clean Rivers Project News" summarize the work being done by DC Water, provide information on the CSS and explain both CSOs and DWOs and the role of the public in preventing and reporting these events. Copies of the 2012 mailers are located in Appendix 9-2.

Section 7
Control of Solids and Floatables

7.1 NPDES PERMIT REQUIREMENTS

Permit requirements for this NMC are summarized as follows:

- Screen pumped overflows at the Main and O Street Pumping Stations.
- Screen flow into the Northeast Boundary Swirl Facility.
- Operate and maintain end of pipe solid and floatable BMP demonstration controls which consist of the end of pipe netting system at CSO Outfall 018 and the bar racks at CSO Outfalls 040 and 041.
- Clean 85 percent of the 8200 catch basins in the combined sewer area at least annually. Inspect catch basins in CSO areas tributary to the Anacostia River at least 2 times per year and clean more frequently as identified by inspections.
- Operate the Anacostia River Floatable Debris Removal Program (Skimmer Boat program).
- Implement an ongoing, appropriate bi-lingual (English and Spanish) public education program aimed at reducing litter in the CSO sewer shed, including public service announcements, public school presentations and stenciling programs.
- Advise D.C. Department of Public Works (DPW) and the National Park Service (NPS) in writing at least once per year on methods and systems to maximize litter control in the CSS, targeting neighborhoods that contribute disproportionate amounts of trash to the CSS. Document these efforts in quarterly CSO reports.
- Prepare lesson plan materials to educate school children on the ways and means for citizens to assist in reducing the amount of solid and floatable materials in CSOs. Make the materials available to D.C. Public elementary schools for their use. Offer to make presentations to schools on the lesson plan and the CSO program at up to 6 occasions per year.

7.2 SCREENING AT MAIN AND O STREET PUMPING STATIONS

Solids and floatables control is provided to the pumped overflows at Main and O Pumping Stations by bar racks on the influent side of the storm pumps are screened. Due to the nature of the configuration, the amount of floatables removed cannot be quantified.

7.3 NORTHEAST BOUNDARY SWIRL FACILITY SCREENING

Solids and floatables are removed from the influent to the Northeast Boundary Swirl Facility by mechanically cleaned screens. A summary of the quantity removed in 2012 is presented in Table 7-1.

Table 7-1
Screenings Removed at Northeast Boundary Swirl Facility

Month	*Quantity of Material Removed (cu.ft)*
January	452
February	212
March	156
April	120
May	360
June	162
July	591.2
August	480
September	408
October	1,380
November	80
December	186
Total	4,587.2

Notes:
(1) The Inflatable dams at Structure 24, diverts flow from the Northeast Boundary sewer to the Northeast Boundary Swirl Facility.

7.4 BMP DEMONSTRATION FOR SOLID AND FLOATABLES CONTROL

- Netting system at CSO 018

  Netting devices intercept floatables from CSOs passing through a set of netted bags. DC Water has installed a floating end of pipe netting system as a demonstration project.

  The CSO 018 netting system is located adjacent to the skimmer boats. The DSS skimmer boat staff inspects the netting system on normal workdays, removes the captured floatable debris and changes the nets when necessary. Table 7-2 summarizes the materials removed by the netting system.

Table 7-2
Screenings Removed at CSO 018 Netting System

Month	*Quantity of Material Removed (lbs)*
January	0[1]
February	0[1]
March	0[1]
April	0[1]
May	0[1]
June	0[1]
July	0[1]

Month	*Quantity of Material Removed (lbs)*
August	0[1]
September	0[1]
October	0[1]
November	0[1]
December	0[1]
Total	0

Notes:

1) The netting platform at CSO 018 fell below the water level and was unsafe to operate. DC Water therefore authorized a repair and rehabilitation contract. The facility will be placed back in service by first quarter of 2013. .

- Bar Racks at CSO 040 and CSO 041
  These are manually cleaned bar racks that capture solids from the CSO prior to discharge. The bar rack system is designed so that the captured solids and floatables are conveyed to BPAWWTP for treatment. Bar racks are inspected monthly.

7.5 CATCH BASIN CLEANING

The Catch Basin crews inspect and clean catch basins on a rotating basis beginning in District Ward No. 1 and continuing through to Ward No. 8.

A summary of the catch basins cleaned by DC Water for the reporting period is provided in Table 7-3.

Table 7-3
Catch Basin Summary

			Inspections			*Cleaning*	
						Total CBs Cleaned This Year to Date	
Ward	*Total CBs*	*CBs in CSS*	*CBs in Anacostia CSS*	*Total Anacostia CBs Inspected Once this Year*	*Total Anacostia CBs Inspected Twice this Year*	Total	In CSS
1	1,591	1,568	734	734	734	2786	2495
2	4,714	4,112	2,316	2,316	2,316	6403	5395
3	3,555	461	-	0	0	5677	768
4	2,782	1,985	159	159	159	4648	3166
5	2,167	1,035	1,035	1,035	1,035	4173	2492
6	1,783	1,594	1,594	1,594	1,594	4094	3329
7	2,313	-	-	0	0	3725	0
8	1,278	116	116	116	116	3014	940
DC Water Subtotal	**20,183**	**10,871**	**5,954**	**5,954**	**5,954**	**34,520**	**18,585**
DDOT (via VMS) Subtotal				**0**	**0**	**0**	**0**
Grand Total	**20,183**	**10,871**	**5,954**	**5,954**	**5,954**	**34,520**	**18,585**
% Cleaned/Inspected to Date				**100%**	**100%**	**>100%**	**>100%**

The table indicates that DC Water has met or exceeded the permit requirements to clean 85 percent of the catch basins in the combined sewer area at least annually, and inspect catch basins in CSO areas tributary to the Anacostia River at least 2 times per year and clean more frequently as identified by inspections.

7.6 ANACOSTIA RIVER FLOATING DEBRIS REMOVAL PROGRAM

This program was initiated in September 1992 to remove floating debris from the Anacostia and Potomac Rivers on a routine basis. The Department of Sewers Services operates two skimmer boats, 5-days per week excluding holidays (weather permitting) to remove small floating debris from the Rivers as well as trash. The Army Corps of Engineers is responsible for removing hazards to navigation such as trees and logs. DSS Crews document the amount and type of debris, which is included in the monthly operations report. A summary of 2012 reports is included in Table 7-4.

Table 7-4
Anacostia River Floatable Debris Removal Program Summary

Month	*Material Removed (tons)*
January	10
February	20
March	40
April	30
May	40
June	50
July	40
August	30
September	20
October	10
November	70
December	20
Total	380

7.7 COORDINATION OF LITTER CONTROL WITH DPW AND NPS

DC Water shared the requirement of NPDES permit with DPW and NPS in order to engender there collaboration in Litter Control efforts within the District of Columbia. The cooperation of DPW and NPS was further stressed in the implementation of specific mitigation programs such as catch basin cleaning and Floatable River Debris Removal Program. As a start, DC Water requested DPW and NPS to present a contact person to jointly develop and review efforts to control litter. See coordination letter in Appendix 7-2.

7.8 BI-LINGUAL PUBLIC EDUCATION PROGRAM

DC Water implemented an appropriate bi-lingual (English and Spanish) public education program aimed at reducing litter in the CSO sewer shed, including public service announcements, public school presentations and stenciling programs. DC Water hired MAYA Advertising to organize bi-lingual radio commercials, in the form of a skit, to sensitize the public on the negative impact of waste littering within the district. Scripts are attached in Appendix 7-3.

7.9 SCHOOL OUTREACH EFFORTS

DC Water presented at the following schools to educate school children on the ways and means for citizens to assist in reducing the amount of solid and floatable materials in CSOs. For each presentation, the project and environment benefits of the sustainable project were discussed, “A Drop’s Life” video is shown, followed by a deeper discussion about urban storm water pollution and DC Water’s role in reduce CSOs and improving the health of our local waterways.

Table 7-5
School Outreach Efforts

No.	Date & Time	Location	No. of Students Attended
1	Friday, January 27 noon-3 p.m.	Malcolm X Elementary 1351 Alabama Avenue, SE Washington, DC	60
2	Friday, February 10 9:30-10:30 a.m.	John Burroughs Educational Campus, 1820 Monroe Street, NE Washington, DC	20
3	Wednesday, June 27 9:30-10:45 a.m.	Boys and Girls Club- Greenleaf 205 L Street, SW Washington, DC	25
4	Wednesday, July 11 10:15-11:45 a.m.	FBR Boys and Girls Club 1901 Mississippi Avenue, SE Washington, DC	15
5	Thursday, November 15, 2012 2 p.m. and 2:50 p.m.	J.C. Nalle 219 50th Street, SE Washington, DC	20
6	Monday, November 19, 2012 2:50 p.m. and 3:40 p.m.	J.C. Nalle 219 50th Street, SE Washington, DC	20
7	Tuesday, November 20, 2012 2:50-3:35 p.m.	J.C. Nalle 219 50th Street, SE Washington, DC	15
8	Monday, December 3, 2012 12:50 – 1:40 p.m	Browne Education Campus 850 26th Street, NE Washington, DC	12
9	Tuesday, December 4, 2012 11 a.m. - noon	Ideal Academy Public Charter School, 6130 N. Capitol Street, NW Washington, DC	12
10	Thursday, December 6, 2012 4:15-5:15 p.m.	Achievement Prep Academy 908 Wahler Place, SE Washington, DC	15

APPENDIX 7-1

Coordination of Litter Control

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY | 5000 OVERLOOK AVENUE, SW | WASHINGTON, DC 20032

December 21, 2012

Mr. Peter May
Associate Regional Director
National Park Service
1100 Ohio Drive SW
Washington, DC 20242

Mr. William O. Howland, Jr.
Director
Department of Public Works
Government of the District of Columbia
2000 14th Street N.W., 6th Floor
Washington, DC 20009

Dear Sirs:

The U.S. Environmental Protection Agency (EPA) issued DC Water a permit for the Blue Plains Wastewater Treatment Plant and sewer system. The permit, the National Pollutant Discharge Elimination System Permit (NPDES Permit), requires DC Water to conduct certain activities. In addition to other requirements, the permit requires DC Water to:

> *Advise the D.C. Department of Public Works (DPW) and the National Park Service (NPS) in writing at least once per year on methods and systems to maximize litter control in the CSS, targeting neighborhoods that contribute disproportionate amounts of trash to the CSS.* (Page 38, Part III.B.1.f.vi of permit).

As you are aware, litter and trash on streets can be washed into drainage inlets during rain events. Litter and trash that is not captured by catch basins and other facilities enters sewers and can be discharged to the receiving waters where it negatively impacts aesthetics. DC Water has programs such as catch basin cleaning and the Anacostia Floatable River Debris Removal Program to mitigate the impact of trash and litter. In addition, we are constructing the DC Clean Rivers Project to control CSO discharges to the receiving waters.

EPA Guidance on best practices to control liter is available at the following location: http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse&Rbutton=detail&bmp=5&minmeasure=1. An overview of the recommended practices is as follows:

- Community education. Community education and awareness is essential to preventing trash from entering waterways. Informing the public about littering can instill a sense of citizen responsibility. For example, a community education program can inform residents of the consequences of littering and then provide them with options for recycling and waste disposal. Such messages can be conveyed to the

public in flyers, door hangers, magnets, and bumper stickers. These materials can be distributed through the mail, at public places (e.g., libraries, town halls), in schools, and at local businesses. Regular messaging to the community can help with long-term behavioral changes.

- Improved infrastructure. The location, number, and size of trash receptacles, recycling bins, and cigarette butt receptacles should be based on expected needs. Communities and private trash disposal companies should work together to meet community trash management goals, including ensuring that trash trucks are properly covered.

- Waste reduction. The public should be encouraged to buy products free of excessive packaging materials. Likewise, manufacturers should be encouraged to reduce the amount of packaging they use. This information can be distributed in flyers, magnets, and the community's web page.

- Cleanup campaigns. Clean up campaigns are effective ways to reduce trash. They have been used successfully along rivers and in parks. By tracking what is collected, the sources of trash can be quantified and targeted to improve source reduction. Municipal projects such as regular street sweeping, receptacle servicing, and roadside cleanups are also important means to prevent trash from accumulating and entering waterways.

- Catch basin cleaning. Regular cleaning of drainage inlets can reduce the conveyance of litter to the receiving water.

In accordance with our permit, we encourage your assistance in implementing best practices for litter control to improve the quality of the receiving waters in the District. Thank you for your assistance and please contact me at 202-787-4469 or at Carlton.Ray@dcwater.com if there are any questions.

Sincerely,

Carlton M. Ray, Director
DC Clean Rivers Project

APPENDIX 7-2

Bi-Lingual Public Education Program

LA NUEVA 87.7 FM WDCN Invoice

WDCN-FM
8121 GEORGIA AVE
SUITE 900
SILVER SPRING, MD 20910
301-686-1123 Phone

Invoice ID: 12110179
Invoice Date: 11/30/2012
Account ID: 0489
Order ID: 0489-002
Account Rep: WALTER TORREZ

Amount Due: $0.00

Amount Paid: _____

DC WATER
5000 OVERLOOK AVENUE SW
WASHINGTON DC, 20032

OUR FED TAX # 203648254

REMIT TO: MEDIA ONE COMM
8121 GEORGIA AVE SUITE 900
SILVER SPRING, MD 20910

Sponsor: DC WATER
DC WATER

Date	Time	Length	Description	CopyID / ISCI Code	Cost
11/18/2012	10:12 AM	:30	Spot	DA1115	44.64
11/18/2012	11:12 AM	:30	Spot	DA1115	44.64
11/18/2012	12:12 PM	:30	Spot	DA1115	44.64
11/18/2012	01:42 PM	:30	Spot	DA1115	44.64
11/18/2012	03:36 PM	:30	Spot	DA1115	44.64
11/18/2012	06:42 PM	:30	Spot	DA1115	44.64
11/18/2012	07:42 PM	:30	Spot	DA1115	44.64
11/19/2012	05:12 AM	:30	Spot	DA1115	44.64
11/19/2012	06:12 AM	:30	Spot	DA1115	44.64
11/19/2012	07:12 AM	:30	Spot	DA1115	44.64
11/19/2012	11:42 AM	:30	Spot	DA1115	44.64
11/19/2012	02:12 PM	:30	Spot	DA1115	44.64
11/19/2012	06:42 PM	:30	Spot	DA1115	44.64
11/19/2012	08:12 PM	:30	Spot	DA1115	44.64
11/20/2012	05:12 AM	:30	Spot	DA1115	44.64
11/20/2012	10:42 AM	:30	Spot	DA1115	44.64
11/20/2012	12:42 PM	:30	Spot	DA1115	44.64
11/20/2012	03:12 PM	:30	Spot	DA1115	44.64
11/20/2012	07:42 PM	:30	Spot	DA1115	44.64
11/20/2012	09:12 PM	:30	Spot	DA1115	44.64
11/20/2012	09:42 PM	:30	Spot	DA1115	44.64
11/21/2012	05:12 AM	:30	Spot	DA1115	44.64
11/21/2012	07:42 AM	:30	Spot	DA1115	44.64
11/21/2012	01:12 PM	:30	Spot	DA1115	44.64
11/21/2012	02:42 PM	:30	Spot	DA1115	44.64
11/21/2012	05:12 PM	:30	Spot	DA1115	44.64
11/21/2012	08:12 PM	:30	Spot	DA1115	44.64
11/21/2012	08:42 PM	:30	Spot	DA1115	44.64
11/22/2012	05:12 AM	:30	Spot	DA1115	44.64
11/22/2012	09:12 AM	:30	Spot	DA1115	44.64
11/22/2012	10:12 AM	:30	Spot	DA1115	44.64
11/22/2012	11:12 AM	:30	Spot	DA1115	44.64
11/22/2012	03:12 PM	:30	Spot	DA1115	44.64
11/22/2012	04:12 PM	:30	Spot	DA1115	44.64
11/22/2012	09:12 PM	:30	Spot	DA1115	44.64
11/23/2012	05:42 AM	:30	Spot	DA1115	44.64
11/23/2012	07:12 AM	:30	Spot	DA1115	44.64
11/23/2012	09:12 AM	:30	Spot	DA1115	44.64
11/23/2012	01:42 PM	:30	Spot	DA1115	44.64
11/23/2012	02:42 PM	:30	Spot	DA1115	44.64
11/23/2012	06:12 PM	:30	Spot	DA1115	44.64
11/23/2012	07:12 PM	:30	Spot	DA1115	44.64

AFFIDAVIT OF PERFORMANCE: I certify that, in accordance with the Official Station Logs, announcements were broadcast as shown on this invoice.

Continued

_____

STATE OF
COUNTY OF
Subscribed and sworn before me this _____ day of _____

_____, NOTARY PUBLIC

LA NUEVA 87.7 FM WDCN Invoice

Invoice ID: 12110179
Invoice Date: 11/30/2012

Sponsor: DC WATER
DC WATER

Date	Time	Length	Description	CopyID / ISCI Code	Cost
11/24/2012	10:12 AM	:30	Spot	DA1115	44.64
11/24/2012	11:12 AM	:30	Spot	DA1115	44.64
11/24/2012	12:12 PM	:30	Spot	DA1115	44.64
11/24/2012	03:12 PM	:30	Spot	DA1115	44.64
11/24/2012	04:42 PM	:30	Spot	DA1115	44.64
11/24/2012	05:42 PM	:30	Spot	DA1115	44.64
11/24/2012	07:42 PM	:30	Spot	DA1115	44.64
11/25/2012	10:42 AM	:30	Spot	DA1115	44.64
11/25/2012	01:12 PM	:30	Spot	DA1115	44.64
11/25/2012	02:42 PM	:30	Spot	DA1115	44.64
11/25/2012	03:42 PM	:30	Spot	DA1115	44.64
11/25/2012	05:12 PM	:30	Spot	DA1115	44.64
11/25/2012	06:12 PM	:30	Spot	DA1115	44.64
11/25/2012	07:12 PM	:30	Spot	DA1115	44.64
		56	**Total Items**	**Total Cost:**	**2,499.84**
				11/5/2012 PrePayment Applied Credit Card 081887:	-2,499.84
				Amount Due:	**0.00**

Amount Due: **0.00**

RADIO ONE DC
1010 WAYNE AVE STE 1400
SILVER SPRING, MD 2091056520, US
3013061111

Store #1001118983

12/26/12 10:58:29 AM

MO/TO Sale

Radio One Inc.

Billing Address

Tamara Stevenson

5000 Overlook Ave., SW

Washington, DC
20032

Credit Card Information

CREDIT CARD NUMBER:	Mastercard 0330
SWIPE CARD:	No
STATUS:	APPROVED - 048687
ORDER NUMBER:	DC Water & Sewer 12/26-1/1
PO NUMBER:	Andre Tillman

Qty	Unit Cost	Extended Cost
1	2,500.00	2,500.00
	SUBTOTAL:	**$2,500.00**
	TOTAL:	**$2,500.00**

I AGREE TO PAY ABOVE AMOUNT ACCORDING TO CARD ISSUER.

SIGNATURE X_____
Tamara Stevenson
WKYS/WMMJ/WOL/WYCB

(SFX): CITY AMBIENCE: TRAFFIC BEEPS, AIRBRAKES OF A BUS STOPPING, PEOPLE WALKING ON SIDEWALK.

(BILLY): (CAUCASIAN, 28) Hey amigos, aquí traigo unas sodas bien frías y una pizza con pepperoni.
Hey friends, I have some cold sodas and a pepperoni pizza.

(JUAN): (HISPANIC) Ahí van los chips y la salsita.
There they go the chips and the sauce.

(SFX): (WALKING OUT ONTO CITY SIDEWALK): STORE DOOR CREAKS OPEN; BELL ON DOOR JINGLES; FOOTSTEPS ON CONCRETE; PULL-UP: CITY STREET SOUNDS (TRAFFIC, BUS AIRBRAKES, ETC.)

(BILLY): Eugenio – Compraste las cartas de truco?
Eugenio- Have you bought the deck cards?

(EUGENE): (BLACK HISPANIC, NASAL & NERDY, 28) Nah – compré unos antiácidos y unas mentitas.
Nah – I bought some antiacids and mints.

(BILLY): (EXASPERATED) Hermano!
Brother!

(EUGENE): (KNOW-IT-ALL) Mejor ser precavido que celebrar.
It's better safe than sorry.

(SFX): SODA CAN POPS OPEN WITH FIZZ. DRINKING SOUND

(JUAN): (SMACKS LIPS) Oye! Esta soda no tiene GAS!
Oye! This soda is flat!

(BILLY): Pues tírala.
So, throw it away.

(SFX): CAN CRINKLES; THEN AN ANIMATED HOLLOW THUD & ECHO AS TRASH LANDS DOWN IN SEWER.

(JUAN): (LIKE A SPORTS ANNOUNCER) García lanza… y anota!!
Garcia shoots…and scores!!

(EUGENE): (PANICKED) No, no lo arrojes en la alcantarilla!!
Don't throw it into the sewer!!

(JUAN): La alcanta-qué?!?
The sewe – what?

(EUGENE): (PANICKED) La alcantarilla, la cloaca. No tires nada ahí nunca.
The sewer, drain. Don't throw anything there ever.

(JUAN): (CLUELESS) Por qué no?!?
Why not?

(EUGENE): Cuando llueve toda la basura ahí depositada acaba en el río. Esto los contamina. Solamente tienes que mirar el Anacostia.
When it rains all the trash there ends up in the river. This pollutes. You only have to look at the Anacostia.

(JUAN): Pero es una simple lata…
But it's only one simple can…

(EUGENE): (FINISHES HIS THOUGHT FOR HIM) …y que se apila con la colilla del cigarro del vecino...
…that get piles up with the cigarette butt.

(SFX): A HOLLOW, SQISHY SOUND OF TRASH LANDING DOWN IN THE SEWER & HITTING OTHER DEBRIS.

(EUGENE): …y la taza de plástico de la vecina.
….and the neighbor's plastic cup.

(SFX): A HOLLOW, SQUEAKY SOUND OF STYROFOAM LANDING IN THE SEWER.

(EUGENE): …y el aceite del melenudo de la moto.
. …and the oil from the guy on the motorcycle.

(SFX): AN ECHOE SOUND OF THICK LIQUID SQUIRTING & GURGLING AS IT'S DUMPED DOWN IN THE SEWER.

(JUAN): (FED UP) Está bien, ya no tiraré nada a la alcantarilla.
It's ok, I won't throw any more thing at the sewer.

(EUGENE): (MATTER OF FACT) Bueno (hesitates)...recógelo.
Ok…pick it up.

(ANNCR): (GUYS ARGUING UNDER) POR FAVOR, nunca arrojes basura en las calles o en las alcantarillas.
Es un mensaje de DC Water.

PLEASE, never throw trash on the streets or in sewers.
This is a message from DC Water.

(SFX): GUYS CONTINUE TO ARGUE. "RECOJELO" NO" "RECOGELO" "NO", INCLUDE LAUGHTER

(SFX): (INSIDE CORNER STORE): OLD-FASHIONED CASH REGISTER; THE CRINKLE OF PAPER GROCERY BAGS; MUFFLED CITY STREET SOUNDS OUTSIDE (CAR HORNS, A BUS GOING BY).

(BILLY): (CAUCASIAN, 28; HURRIED) I got the sausage pizzas. You ready?

(JUAN): (HISPANIC, 30; PLAYS ALONG, INTENSELY) I got the chips n' sodas. It's game-time!

(SFX): (WALKING OUT ONTO CITY SIDEWALK): STORE DOOR CREAKS OPEN; BELL ON DOOR JINGLES; FOOTSTEPS ON CONCRETE; PULL-UP: CITY STREET SOUNDS (TRAFFIC, BUS AIRBRAKES, ETC.)

(BILLY): (IMPATIENT) Eugene?!? – Didja get the hot wings?

(EUGENE): (AFRICAN AMERICAN, NASAL & NERDY, 28) No – I purchased antacids and breathmints.

(BILLY): (EXASPERATED) *Dude?!?*

(EUGENE): (KNOW-IT-ALL) Better to be safe than celebratory.

(SFX): SODA CAN POPS OPEN WITH FIZZ. DRINKING SOUND

(JUAN): (SMACKS LIPS) Eeecchh, this soda's FLAT!

(BILLY): (FED UP) Awww, just pitch it.

(SFX): CAN CRINKLES; THEN AN ANIMATED HOLLOW THUD & ECHO AS TRASH LANDS DOWN IN SEWER.

(JUAN): (LIKE A SPORTS ANNOUNCER) Martinez shoots n' scores!!

(EUGENE): (PANICKED) Don't throw it in the catch basin!!

(JUAN): The catch *whats-in?!?*

(EUGENE): (PANICKED) The catch basin. The sewer. You should *never* throw trash down there.

(JUAN): (CLUELESS) Why not?!?

(EUGENE): Rainwater carries sewer trash to the river.

(BILLY): What's the *Catch?!?*

(OTHERS): SNICKER, LAUGH.

(EUGENE): That trash pollutes our waterways. Look at the Anacostia.

(JUAN): (SKEPTICAL): *One little can…*

(EUGENE): (FINISHES HIS THOUGHT FOR HIM) …***really*** piles up – with that guy's cigarette butt.

(SFX): A HOLLOW, SQISHY SOUND OF TRASH LANDING DOWN IN THE SEWER & HITTING OTHER DEBRIS.

(EUGENE): That lady's Styrofoam cup.

(SFX): A HOLLOW, SQUEAKY SOUND OF STYROFOAM BEING CRUSHED AND LANDING IN THE SEWER.

(EUGENE): And that old man's motor oil.

(SFX): AN ECHO SOUND OF THICK LIQUID SQUIRTING & GURGLING AS IT'S DUMPED DOWN IN THE SEWER.

(JUAN): (FED UP) OKAY, I'll stop throwin' trash in sewer.

(EUGENE): (MATTER OF FACT) Well?? (hesitates)...***Go get it.***

(JUAN): (EXASPERATED) *What the?!?*

(SFX): GUYS CONTINUE TO ARGUE. "GO GET IT" NO I WON'T" "GO GET IT" "NO I WON'T", INCLUDE LAUGHTER.

(ANNCR): ***Please, never dump trash in the sewer or street.*** Sponsored by DC Water.

(FADE)

APPENDIX 7-3

School Outreach Efforts

Grades: K-8

A Drop's Life (DC Clean Rivers Project)

Overview

Clean, healthy waterways are vital to the quality and sustainability of our communities. Reducing pollutants from entering District waterways will greatly improve the condition of the Anacostia and Potomac Rivers. By examining the life of a water drop, students will learn how water from rain and snow storms becomes runoff and flows into our watersheds, how stormwater runoff causes erosion and picks up pollution, how various human activities impact the quality of our waterways, and how the DC Clean Rivers Project will help reduce water pollution.

Objectives

After completing this lesson, students will be able to:

- Define combined sewer overflows and stormwater runoff
- Explain the impact pollution has on water quality
- Give four examples of the kinds of human activities that affect water quality
- Identify the benefits of the DC Clean Rivers Project

Content Standard: NS.K-4.3 LIFE SCIENCE

As a result of the activities in grades K-4, all students should develop an understanding of

- The characteristics of organisms
- Life cycles of organisms
- Organisms and environments

Content Standard: NS.5-8.3 LIFE SCIENCE

As a result of the activities in grades 5-8, all students should develop an understanding of

- Abilities of technological design
- Understandings about science and technology

Content Standard: NS.K-4.6 PERSONAL AND SOCIAL PERSPECTIVES

As a result of the activities in grades K-4, all students should develop an understanding of

- Personal health
- Characteristics and changes in populations
- Types of resources
- Changes in environments

- Science and technology in local challenges

Content Standard: NS.5-8.6 PERSONAL AND SOCIAL PERSPECTIVES

As a result of the activities in grades 5-8, all students should develop an understanding of

- Personal health
- Populations, resources, and environments
- Natural hazards
- Risks and benefits
- Science and technology in society

Procedures

Ask students: If they know what happens to the water when it rains? Explain the concepts of combined sewer overflows (CSOs) and stormwater runoff to students. Discuss how pollution from CSOs and runoff affect water quality. Ask students to share examples of various human activities that may impact the quality of our waterways. Explain the purpose of the DC Clean Rivers Project and the environmental benefits it will provide. Students will observe a 4 ½-minute animated cartoon and engage in a group discussion.

Activity

1st-3rd grades: Make a Bottle Ocean
Students will conduct an experiment by making an "ocean in a bottle." By mixing different liquids with water, students will determine what will and will not mix. In particular, students will see if oil or detergent will mix with water. Oil and detergents are two common liquids that get dumped into our waters.

4th–8th grades: Modeling of a Watershed
Students will participate in a science lab, demonstrating how water from rain and snow storms becomes runoff and flows down watersheds through storm drains in cities and neighborhoods. Students will observe how stormwater runoff causes erosion and picks up pollution. Following the lab, students will discuss and identify ways to reduce or prevent urban stormwater pollution.

Malcolm X Event

Living Classrooms Event

Section 8
Pollution Prevention

8.1 NPDES PERMIT REQUIREMENTS

The requirements in the NPDES permit for this NMC are as follows:

- Conduct regular public education programs to advise citizens of proper disposal of substances
- Conduct tours of the BPAWWTP to educate public on aspects of CSO control that can be enhanced with public assistance.
- Use the pretreatment program to encourage industrial waste reduction through recycling and improved housekeeping.
- Notify responsible agencies to enforce regulations that prohibit entrance into the CSS of any substance that may impair or damage the function and performance of collection and treatment systems.
- Coordinate where feasible and practicable DC Water's pollution prevention programs with those of D.C. government agencies such as Department of Public Works Programs and Department of Health Programs

8.2 PUBLIC EDUCATION PROGRAMS

DC Water provides information about pollution prevention and proper disposal of substances to the public through the following:

- DC Water website – excerpts from the website documenting this are included in Section 9.
- Water and sewer bill mailers – DC Water issues water and sewer bill mailers related to CSOs (called the "CSO Update") twice per year to all customer accounts. The mailer includes information on pollution prevention and proper disposal of substances.
- Public workshops – The presentation for the workshop is included in Section 7.

Tours of the Blue Plains Wastewater Treatment Plant may be arranged through the DC Water Department of External Affairs or via the DC Water webpage. A list of tour dates for 2012 is included in Appendix 8-1.

8.3 PRETREATMENT PROGAM

During the annual inspections of Significant Industrial Users, the Pretreatment and Lab Section of DC Water identifies pollution prevention techniques currently practiced at each facility. These include, but are not limited to secondary containment, spill containment and overfill protection and the use of environmentally friendly products. In addition, the pretreatment inspection report includes recommendations to improve the facility's pollution prevention techniques.

DC Water has developed a joint guidance document with the District Department of the Environment (DDOE) Hazardous Waste Division on Wastewater Management and Minimization for HealthCare Facilities. This document identifies acceptable disposal practices for a number of chemicals and other waste categories typically found in hospitals, and promotes pollution prevention by suggesting best management practices for minimizing waste streams through material and equipment substitutions and source reduction.

8.4 NOTIFICATION OF RESPONSIBLE AGENCIES

In accordance with its permit requirements, DC Water notified the DDOE, Transportation and Public Works regarding their responsibilities to enforce regulations that prohibit entrance into the CSS of any substance that may impair or damage the function and performance of collection and treatment systems. A copy of this notification is in Appendix 8-2.

8.5 AGENCY COORDINATION

In addition to the above activities, DC Water also coordinates with DC government agencies to conduct pollution prevention programs. With the DC Department of Public Works and the Department of the Environment, they provide education to the public about the following topics:

- Leaf Collection
- Curbside Recycling
- Household Hazardous Waste Collection
- Residential Bulk Refuse Collection and Self-Service Disposal
- Street Cleaning and Sweeping
- Inspection and Enforcement of Storm Water and Erosion/Sedimentation Control Regulations

Examples of pamphlets distributed to the public, information and reports concerning these programs are included in Appendix 8-3.

APPENDIX 8-1

Blue Plains Public Tours – 2012

The following Blue Plains tour dates were scheduled for 2012:

January

February

23

28

29

March

1

8

15 (x2)

21

22

29 (x2)

April

2

5 (x2)

11

12

25

26

May

1

3

4

10

11

June

21

22

27

28

July

5

11

12 (x3)

13

18

August

2

9

16

23

September

6 (x2)

12

13

21

28

October

5

11 (x2)

12

18

November

5

December

3

5

Who We Are

- Contact Information
- General Information
- Tours
  - Request a Tour
- History
- Executive Management
- Senior Management
- Board of Directors
- Finance & Operations
- DC Water Cares

Tours of Blue Plains

Welcome to the Blue Plains Advanced Wastewater Treatment Plant. You may request an on-site guided tour via our website.

Wastewater is collected by the District of Columbia sewer system and from the Maryland and Virginia suburbs and is delivered to the Blue Plains AWTP. The Blue Plains AWTP is the largest advanced wastewater treatment facility of its type in the world.

We also have the wastewater treatment process detailed in the "What We Do" section of this website.

What can you find in this section?

- Request a Tour
  Sign up for a personal or group tour of DC Water facilities.

Who We Are

- Contact Information
- General Information
- Tours
  - Request a Tour
- History
- Executive Management
- Senior Management
- Board of Directors
- Finance & Operations
- DC Water Cares

Request a Tour

Please use this form to request a tour of the DC Water Blue Plains Advanced Wastewater Treatment Plant, located at 5000 Overlook Avenue, SW. At Blue Plains, tours are offered on Wednesdays for junior and high school students, and Thursdays for other interested groups. Tours are scheduled to begin at 10 a.m. and last approximately 60-90 minutes.

Middle school students, grades 6 and up, are allowed on the plant, but will not be permitted to exit the vehicle. High school seniors (12th grade only) will be permitted to exit the vehicle on the plant, at the tour guide's discretion. Students in grades 5 and below are not permitted on the plant. Please include a brief description of your group's origin and interests, so we can assign an appropriate guide. You will receive an e-mail confirmation or phone call to acknowledge your request within 2 business days.

If your tour group has 15 or more members, you will be responsible for providing a vehicle that includes one space for our guide to accompany your group. We do not allow multiple vehicles to tour the facility at one time. All participants will need to ride together in one vehicle (van, bus, etc.). We offer tours on an as-needed basis for our Bryant Street Water Pumping Station located at 301 Bryant Street, NW. Please call (202) 787-2206 to inquire. To learn more, go to http://www.dcwater.com/about/facilities.cfm

* = Required field

Group Type: *	- Please Select -
Group type, if other:	
Preferred Tour Date: *	
Tour Time: *	10 00 AM
Secondary Tour Date: *	
Tour Time: *	10 00 AM
Group Size: *	

Does the group speak English? * ◉ yes ○ no

If no, language spoken:
(DCWater does not provide translation services.)

If arriving at Blue Plains in a private bus or van, can the DC Water tour guide use your vehicle for the tour? (if "no", a DC Water vehicle will be provided)

○ yes ◉ no

Contact Person's First Name: *

Contact Person's Last Name: *

Contact Person's Phone: *

Contact Person's Fax:

Contact Person's Email: *

Organization:

Address 1:

Address 2:

City:

State: - Please Select -

or Province:

Zip or postal code:

Country: United States

Comments:

Back Submit

APPENDIX 8-2

Notification of Responsible Agencies

dc clean RIVERS PROJECT

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY | 5000 OVERLOOK AVENUE, SW | WASHINGTON, DC 20032

March 21, 2013

Mr. Keith Anderson, Director
District Department of Environment
1200 First Street NE
Washington, DC 20002

Mr. Terry Bellamy, Director
District Department of Transportation
55 M Street SE, Suite 400
Washington, DC 20003

Mr. William O. Howland, Jr., Director
Department of Public Works
2000 14th Street N.W., 6th Floor
Washington, DC 20009

Dear Sirs:

The U.S. Environmental Protection Agency (EPA) issued a National Pollutant Discharge Elimination System Permit (NPDES Permit) to DC Water to operate the Blue Plains Advanced Wastewater Treatment Plant and sewer system. In addition to other requirements, the permit requires DC Water to:

> *Notify responsible agencies to enforce regulations that prohibit entrance into the CSS of any substance that may impair or damage the function and performance of collection and treatment systems.* (Page 38, Part III.B.1.g.iv of permit).

Therefore, in accordance with the NPDES Permit, it is requested that the Department of Environment, Department of Transportation and Department of Public Works diligently enforce the relevant code regulations to prohibit entrance of substances the sewer system which may damage the sewer system or impair its performance. Examples of such substances may include oil, anti-freeze, contaminated groundwater, greases, sand, salt and similar materials.

Your support to ensure that this requirement is completed in accordance with the NPDES Permit is appreciated. Thank you for your assistance and please contact me at 202-787-4469 or at Carlton.Ray@dcwater.com if there are any questions.

Sincerely,

Carlton M. Ray, Director
DC Clean Rivers Project

APPENDIX 8-3

Examples of Agency Coordination for Pollution Prevention

Department of Public Works

About DPW
Education and Outreach
Parking Enforcement
Sanitation Services

"The Preferred Choice"

Department of Public Works

Office Hours
Monday - Friday, except District holidays, 8:15 am - 4:45 pm

How to Reach Us

Leaf Collection - Holiday Tree Collection

The fall leaf collection program runs between Monday, November 5, 2012 and January 12, 2013, and every neighborhood in the District will have its leaves collected. DPW will collect leaves at least twice from residential neighborhoods by "vacuuming" the leaves residents rake into their treebox spaces.

DPW also will collect bagged leaves from the curbside treebox spaces. These leaves will be sent for composting. Bagged leaves placed in the alley where trash and recycling are placed will be collected with the trash as space in the truck permits. By collecting leaves, we reduce potential accidents and injuries resulting from slipping on wet leaves and prevent catch basins (storm drains) from clogging and causing street flooding during heavy rains.

Check Leaf Collection Status in Your Neighborhood

How You Can Help
• Rake leaves into the treebox space the weekend before your street's collection weeks.
• Please – leaves only! Tree limbs, bricks, dirt, rocks, etc., will damage the equipment and delay collections.
• Prevent fires, parking problems and possible flooding by placing leaves in the treebox space, not in the street. When it rains, leaves will block the storm drain and cause flooding.
• Holiday trees and wreaths will be picked up between December 31 and

Service Need

DPW collects leaves at least twice from residential neighborhoods by "vacuuming" the leaves raked into treebox spaces

Service at a Glance

Provided By: DPW
Phone: 311

Frank D. Reeves Municipal Center, 2000 14th Street, NW
Washington, DC 20009
dpw@dc.gov

Phone: (202) 673-6833
Fax: (202) 671-0642
TTY: (202) 673-6833

FOIA Information
Agency Performance

Website: http://dpw.dc.gov

William O. Howland Jr.
Director
Ask the Agency

Recycling Hotline:
(202) 645-8245

Other DPW Services:
311 or (202) 737-4404

January 12. Remove all ornaments and between Sunday, December 30 and Sunday, January 6, place the greenery at the curb for collection. Please do not put the trees in plastic or cloth bags. Trees collected between December 31 and January 12 will be chipped and composted.

• Any trees not collected by January 12 will be picked up as space in the trash trucks allow over the following weeks.
Just the Facts
• Snow and ice will disrupt the leaf collection schedule because DPW leaf collection staff is the backbone of the District's Snow and Ice Control Program. Expect schedule delays when snow/ice storms are predicted.
• DPW collects between 8,000 and 10,000 tons of leaves between November and January each year. Most of the leaves collected by vacuum trailers are composted. .
• About 5,800 tons of leaves collected during the 2011-2012 leaf collection season were composted. Between March and October, residents may call 311 to request compost for neighborhood garden/beautification projects or go to the Ft. Totten Transfer Station, 4900 John F. McCormack Drive, NE, Saturdays (except holidays) between 8 am and 3 pm.
• A printed leaf collection brochure is mailed to DPW's trash/recycling customers in October. For the status of collections in your neighborhood visit leaf.dcgis.dc.gov.

Related Documents | **Related News** |

- Are You Shredding Yet? [PDF]
- 2012-2013 Leaf Collection Brochure

Phone: 311
Days: Monday - Saturday
Location: 2000 14th Street NW, 8th Floor
Washington, DC 20009

Related Services

- Street Sweeping, Alley Cleaning and Litter Can Collection

Request this Service

Download Request Form and Submit Instructions

Department of Public Works

About DPW
Education and Outreach
Parking Enforcement
Sanitation Services

"The Preferred Choice"

Department of Public Works

Office Hours
Monday - Friday, except District holidays, 8:15 am - 4:45 pm

How to Reach Us

Street Sweeping, Alley Cleaning and Litter Can Collection

Improved Street Sweeping Program Begins March 1

March 1st is the first day of the residential street sweeping season. DPW conducted a study of the sweeping program and found that rerouting the sweepers would increase efficiency and allow us to increase the number of streets we can sweep regularly. Another plus of the new program is that it has a specific start date – March 1 (barring any snow) – and end date – October 31 – each year. That information is on the signs so that everyone knows when parking restrictions will be in effect. Parking enforcement of residential sweeping violations will begin Monday, March 12.

In residential neighborhoods where there are no signs identifying parking restrictions, sweeping will occur twice a month.

General Street, Alley Cleaning and Litter Can Collection Information

DPW cleans residential and arterial streets using mechanical sweepers of various sizes. The most prevalent type of sweeper used is equipped with License Plate Recognition System (LPRS) technology and is known as Sweepercam. Between March and October, these sweepers operate along residential streets where signs are posted restricting parking during street sweeping hours. In 2009, DPW began using Sweepercam to improve parking enforcement so the sweepers can clean effectively. Photographs are taken of each vehicle parked during street sweeping hours and motorists are mailed a

Service Need

DPW street and alley cleaning services ensure clean and safe District streets and proper removal of litter.

Service at a Glance

Provided By: DPW
Phone: 311
Days: Monday - Friday
Location: 2000 14th Street NW, 8th Floor
Washington, DC 20009
Cost of Service: None

Related Services

- Bulk Trash Collection

Request this Service

Visit the Service Request Center

Frank D. Reeves Municipal Center, 2000 14th Street, NW
Washington, DC 20009
dpw@dc.gov

Phone: (202) 673-6833
Fax: (202) 671-0642
TTY: (202) 673-6833

FOIA Information
Agency Performance

Website: http://dpw.dc.gov

William O. Howland Jr.
Director
Ask the Agency

Recycling Hotline:
(202) 645-8245

Other DPW Services:
311 or (202) 737-4404

DC DPW
DCDPW

DCDPW @AliceSpeck It's a good thing it was just the can.
about 1 hour ago · reply · retweet · favorite

dcdmv DMV is hiring. Position info at ow.ly/h3lWu.
yesterday · reply · retweet · favorite

DCDPW @20002ist I searched the mentions for previous tweets. I don't see any. How did you submit your

$30 ticket. Smaller, golf cart-size sweepers, known as litter vacs, are used to vacuum litter from gutters and sidewalks in commercial areas.

DPW uses larger sweepers for sweeping District freeways and main arterials. These sweepers operate year-round depending on the temperature.

How You Can Help

- Pick up the litter and trash in your alley and around your property, rather than sweeping these items into the gutter to eventually end up in one of the District's rivers.
- Residential property owners are responsible for maintaining the sidewalks and tree box spaces around their property. Commercial property owners are responsible for the public space around their property up to 18 inches from the curb into the street.
- Use the street litter and recycling cans as you walk along the District's commercial streets. The litter cans are for pedestrian trash only, not household trash.
- Avoid a street sweeping ticket by obeying the parking (No Parking Street Cleaning) signs along residential streets. Eighty percent of the residents of these streets signed petitions pledging to move their cars so sweeping would be effective.
- Overnight scheduled sweeping of the District's major roadways occurs year-round, weather permitting. Motorists are urged to obey the signs when parking in these areas during the posted overnight sweeping hours.
- To obtain street and alley cleaning services, call 311.

Just the Facts

- The signed, residential, weekly street sweeping program operates in densely-populated neighborhoods with high-volume pedestrian traffic. Residential streets where there are no parking restriction signs are swept twice a month and cars do not need to be moved.
- Mechanical residential street sweeping is suspended during the winter because the sweepers emit a fine spray of water than can freeze and cause accidents to pedestrians and vehicles.
- Alley cleaning takes place in spring, summer and fall. The crews rotate throughout the city. Call 311 to request alley cleaning services.
- DPW installed more than 4,800 street litter cans along commercial corridors for pedestrians to deposit their trash. Litter cans are emptied at night, following a daily to three times per week schedule, based on how much trash they receive. Collections are noisy, which is why litter cans are not placed in residential neighborhoods.

DPW LEAF COLLECTION PAMPHLET

THE DISTRICT'S

2012 - 2013
FALL - WINTER

Leaf COLLECTION

NOVEMBER 5, 2012
JANUARY 12, 2013

"The Preferred Choice"

Government of the District of Columbia
Vincent C. Gray, Mayor

PRST STD
AUTO
U.S. POSTAGE PAID
WASHINGTON, D.C.
PERMIT No. 2027

DISTRICT DEPARTMENT OF THE ENVIRONMENT
green forward
Christophe A.G. Tulou, *Director*

DISTRICT OF COLUMBIA DEPARTMENT OF PUBLIC WORKS

Solid Waste Management Administration
2750 South Capitol Street, SE
Washington, DC 20032

Follow the progress of leaf collection at www.dpw.dc.gov

If you need information about leaf collection in Spanish, Chinese, Vietnamese, Korean or Amharic, please see inside or call 202.673.6833.

GOOD TO KNOW...
BRING LEAVES TO FT. TOTTEN

4900 John F. McCormack Drive, NE, Monday to Friday 1 pm to 5 pm and Saturday (except holidays), 8 am to 3 pm. For more information, call 311.

FREE COMPOST

Between March and October, pick up compost for garden projects at the Ft. Totten Transfer Station, Saturdays (except holidays) between 8 am and 3 pm.

PREVENT WATER POLLUTION

Keep catch basins clear of loose leaves, debris and trash. Clogged catch basins (storm drains) can cause increased street flooding during heavy rain. Use the street litter cans for pedestrian litter and your trash cans for trash. Organic material, cigarette butts, and trash washed into catch basins contribute to water pollution. To report a clogged catch basin, please call DC Water at 202.612.3400.

Properly dispose of motor oil and other hazardous materials. Dumping these items into the catch basins pollutes our waterways and harms wildlife. Bring these or other household hazardous (or electronic) waste items to the Fort Totten Trash Transfer Station (address above) the first Saturday of each month, except holidays, from 8 am to 3 pm.

2013 HOLIDAY TREE PICK-UP

Place holiday trees and wreaths next to your trash containers at your regular collection point. Please remove all ornaments. Trees collected between December 31 - January 12 will be recycled. After January 12 trees will be collected with your trash as space allows in the trash trucks.

Si necesita información sobre el servicio de recogida de hojas, sírvase llamar al (202) 673-6833.

如果您需要有關樹葉收集的資訊，請致 (202) 673-6833。

낙엽 수집에 대한 정보를 원하시면, (202) 673-6833번으로 연락하십시오.

Nếu bạn cần thông tin về sưu tầm lá cây, vui lòng gọi số điện thoại (202) 673-6833.

ቅጠል አንዲት አንድሚሰበሰብ መረጃ ካስፈለጎ አባክዎን (202) 673-6833 ይደውሉ።

District of Columbia 2012-2013 Leaf Collection Program

The Department of Public Works will collect leaves from November 5, 2012 to January 12, 2013. DPW uses vacuum trucks to collect the bulk of the leaves, which are then composted. We *urge* residents to follow the schedule detailed in this brochure when planning to rake loose leaves into piles in the curbside treebox space for collection.

DPW will collect bagged leaves from the curbside treebox space. Bagged leaves placed in the alley where trash and recycling are placed will be collected with the trash as space in the truck permits.

Tips for a Smooth-Running Leaf Collection Season

- Review the schedule for your street's collection weeks.
- Rake leaves into the treebox space the **weekend** before your street's collection weeks.
- **Please – leaves only!** Tree limbs, bricks, dirt, rocks, etc., will damage the equipment and delay collections.
- Prevent fires, clogged storm drains, and parking problems by placing leaves in the treebox space, not in the street.

Leaf Collection Facts

- Every street will have at least two collections. During each pass, crews will vacuum loose leaves from the treebox space, collect bagged leaves, and clear potentially hazardous situations.

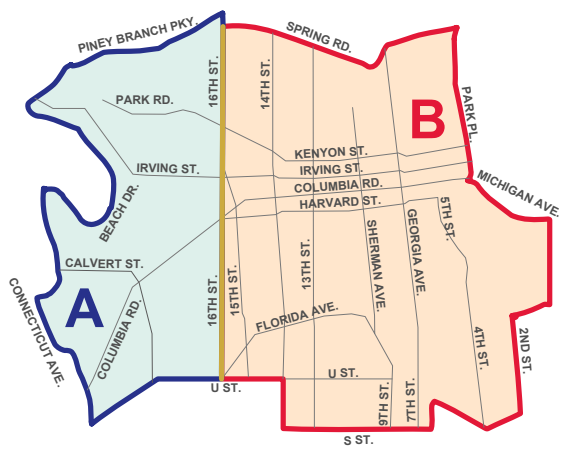
- Collections ***will*** be made Veterans Day (Monday, November 12) and Thanksgiving Day (Thursday, November 22).
- No collections will be made Christmas Day (Tuesday, December 25) and New Year's Day (Tuesday, January 1).

- ***Snow and ice can disrupt the leaf collection schedule*** because DPW leaf collection staff support the snow and ice control program. Expect schedule delays when snow/ice storms are predicted.

- DPW will make the scheduled passes, even if the schedule is delayed due to weather or other circumstances.

Please be patient. Check the leaf collection status online at *www.dpw.dc.gov.*

WARD 1



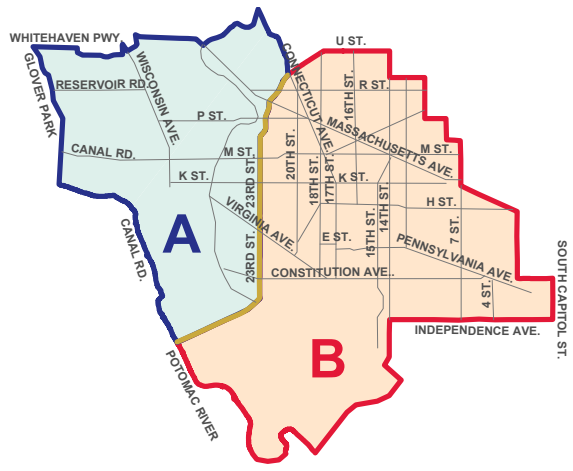
Area A
West side of 16th Street, NW

Rake Leaves Out By Sunday:	**For Collection From:**
November 4	November 5 to 17
December 2	December 3 to 15

Area B
East side of 16th Street, NW

Rake Leaves Out By Sunday:	**For Collection From:**
November 18	November 19 to December 1
December 16	December 17 to December 29

WARD 2



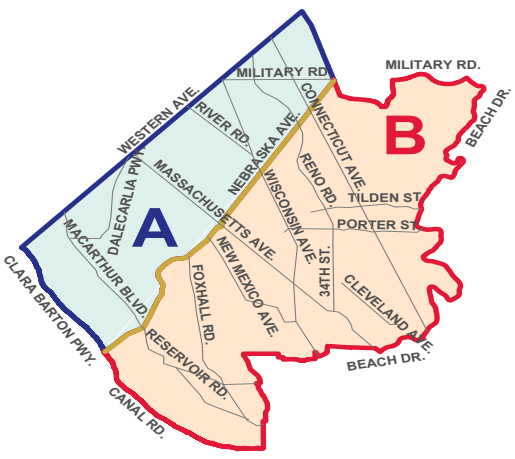
Area A
West side of 23rd Street, NW

Rake Leaves Out By Sunday:	**For Collection From:**
November 4	November 5 to 17
December 2	December 3 to 15

Area B
East side of 23rd Street, NW

Rake Leaves Out By Sunday:	**For Collection From:**
November 18	November 19 to December 1
December 16	December 17 to December 29

WARD 3



Area A
West side of Nebraska Avenue, Loughboro Road and Chain Bridge Road, NW

Rake Leaves

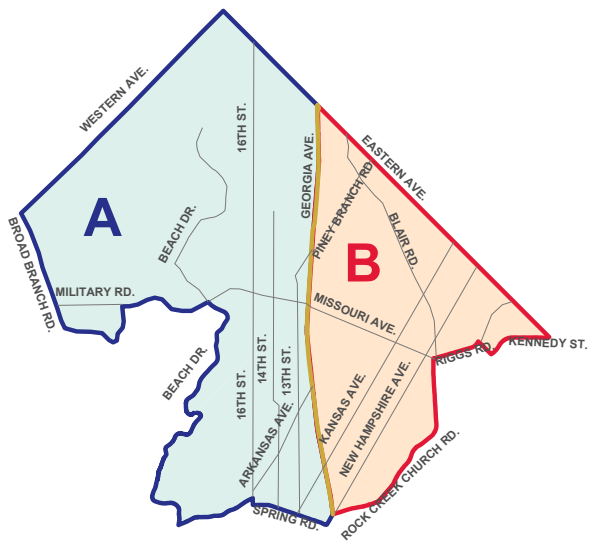
Out By Sunday:	**For Collection From:**
November 4	November 5 to 17
December 2	December 3 to 15
December 30	*December 31 to* January 5

Area B
East side of Nebraska Avenue, Loughboro Road and Chain Bridge Road, NW

Rake Leaves

Out By Sunday:	**For Collection From:**
November 18	November 19 to December 1
December 16	December 17 to December 29
January 6	January 7 to 12

WARD 4



Area A
West side of Georgia Avenue, NW

Rake Leaves

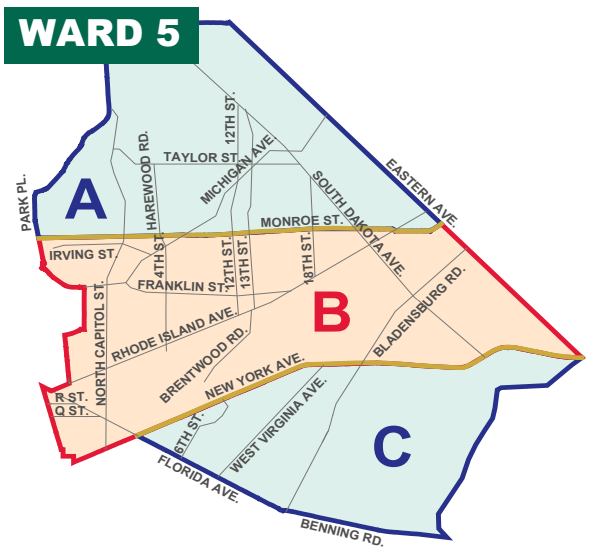
Out By Sunday:	**For Collection From:**
November 4	November 5 to 17
December 2	December 3 to 15
December 30	*December 31 to* January 5

Area B
East side of Georgia Avenue, NW

Rake Leaves

Out By Sunday:	**For Collection From:**
November 18	November 19 to December 1
December 16	December 17 to December 29
January 6	January 7 to 12

WARD 5



Area A
North side of Monroe Street, NE

Rake Leaves

Out By Sunday:	**For Collection From:**
November 4	November 5 to 17
December 9	December 10 to 22

Area B
South side of Monroe Street, NE to North side of New York Avenue, NE

Rake Leaves

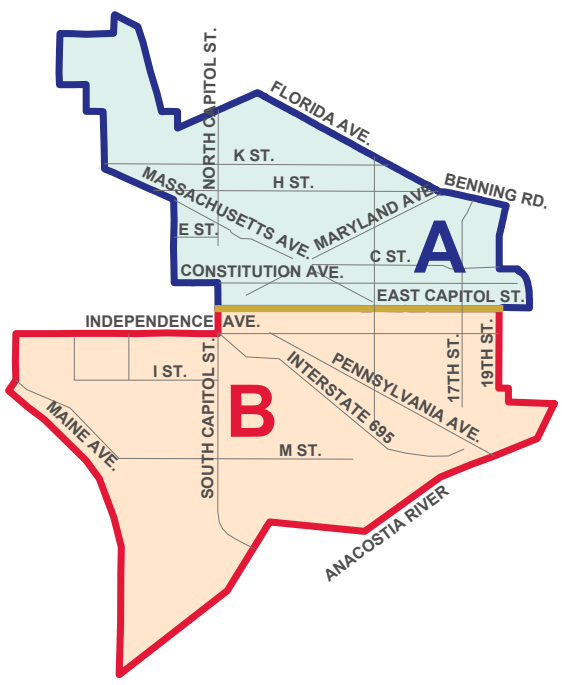
Out By Sunday:	**For Collection From:**
November 18	November 19 to December 1
December 23	December 24 to January 5

Area C
South side of New York Avenue, NE

Rake Leaves

Out By Sunday:	**For Collection From:**
December 2	December 3 to December 8
January 6	January 7 to January 12

WARD 6



Area A
North side of East Capitol Street, NE

Rake Leaves

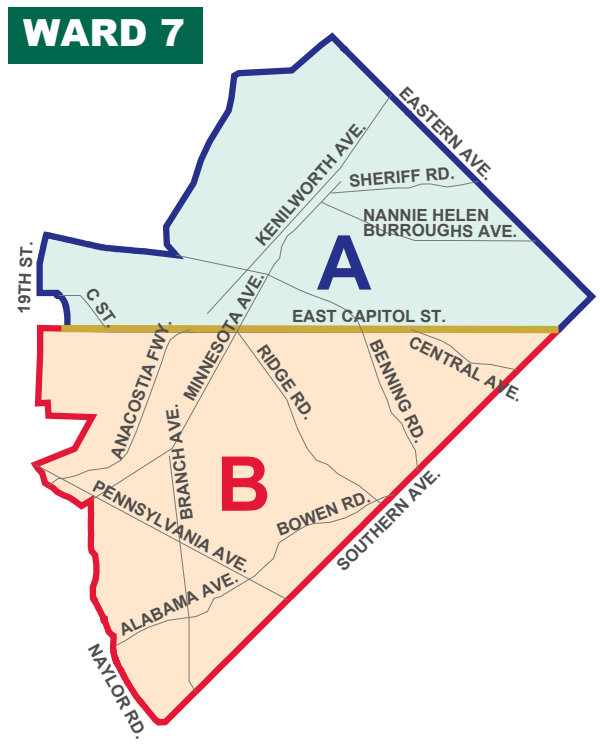
Out By Sunday:	**For Collection From:**
November 4	November 5 to 17
December 2	December 3 to 15

Area B
South side of East Capitol Street, SE

Rake Leaves

Out By Sunday:	**For Collection From:**
November 18	November 19 to December 1
December 16	December 17 to December 29

WARD 7



Area A
North side of East Capitol Street, NE

Rake Leaves

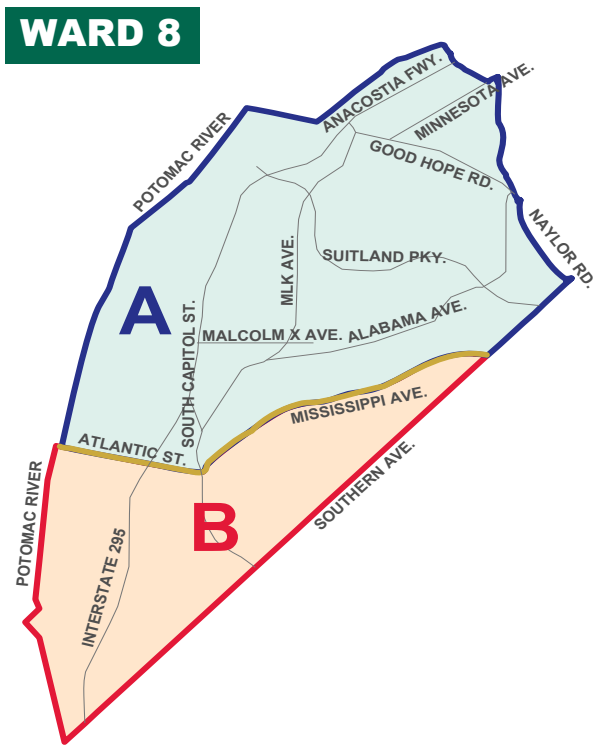
Out By Sunday:	**For Collection From:**
November 4	November 5 to 17
December 2	December 3 to 15

Area B
South side of East Capitol Street, SE

Rake Leaves

Out By Sunday:	**For Collection From:**
November 18	November 19 to December 1
December 16	December 17 to December 29

WARD 8



Area A
North side of Atlantic Street and Mississippi Avenue, SE

Rake Leaves

Out By Sunday:	**For Collection From:**
November 4	November 5 to 17
December 2	December 3 to 15

Area B
South side of Atlantic Street and Mississippi Avenue, SE

Rake Leaves

Out By Sunday:	**For Collection From:**
November 18	November 19 to December 1
December 16	December 17 to December 29

Section 9
Public Notification

9.1 NPDES PERMIT REQUIREMENTS

The requirements in the NPDES permit for this NMC are summarized as follows:

- Install and operate two CSO warning lights, one light on the Anacostia River and a second light on the Potomac River to notify river users of CSO events.

- Maintain a website with information on: (a) nature of CSO discharges; (b) locations of CSOs; (c) potential health threats of CSOs; (d) record of CSO events by outfall with number, average duration and volume for the prior three month calendar quarter based on modeled results; (e) description of light system on the Anacostia River and Potomac River that advises river users of times that CSOs are actually occurring; and (f) nature and duration of conditions potentially harmful to users of receiving waters during and after a CSO event.

- Prepare and distribute semi-annually in sewer bills an informational pamphlet with information similar to that maintained on the web site

- Distribute a pamphlet semi-annually to locations (e.g., boathouses, marinas, water sports shops) frequented by receiving water users.

- Prepare and maintain an information bulletin to distribute to callers requesting information on the CSS and CSOs.

- Include updates and status of CSS and CSO plans and programs in information distributed to the public.

- Maintain warning signs at all CSOs.

9.2 CSO WARNING LIGHTS

The Three Party Consent Decree (CD) requires the construction of CSO notification lights at two locations: in the vicinity of CSO 010-12 (Main and O St. Pumping Station site) on the Anacostia, and at Thompson's Boathouse on the Potomac River. The lights are located as follows:

- Potomac River Site – The installation of the required CSO Warning Light is complete. The location of the Potomac River light is adjacent to Thompson's Boat House.

- Anacostia River Site – The installation of the required CSO Warning Light is complete. The location of the Anacostia River light is adjacent to Main Pumping Station.

9.3 CSO WEBSITE

A portion of the DC Water website is dedicated to providing information to the public on pertinent combined sewer issues. Examples of the website and the information contained therein can be found in Appendix 9-1. The website is updated at least quarterly and the following information is included:

- The nature and locations of CSO's
- Potential health implications of CSO's
- Quarterly monitoring reports with CSO predictions
- Description of CSO warning light system
- Description of nature and duration of impacts from CSO's on receiving water

The web site can be viewed at www.dcwater.com. CSO information is at the following link: http://www.dcwater.com/wastewater_collection/css/

9.4 INFORMATIONAL MAILERS

Informational mailers are included in customers' water and sewer bills twice per year. Copies from this past year's mailer 'CSO Update" are included in Appendix 9-2. A portion of the mailer provides updates on CSS related programs and projects. The remaining content of the mailer is in accordance with the requirements of the Three Party Consent Decree.

The mailer is also distributed to boathouses, marinas and other interested parties twice per year. In 2012, the organizations listed in Table 9-1 accepted the mailer:

Table 9-1
Organizations That Accepted Mailers

Organizations	***Location***
Belle Haven Marina Inc.	Alexandria, Virginia.
Capital Yacht Club	Washington D.C.
Columbia Island Marina	Arlington, Virginia.
District Yacht Club	Washington D.C.
Fort Washington Marina	Fort Washington, Maryland.
James Creek Marina	Washington D.C.
Buzzard Point Boat Yard	Washington D.C.
Washington Marina Company	Washington D.C.
Washington Sailing Marina	Alexandria, Virginia.
Anacostia Watershed Society	Bladensburg, Maryland.
Gangplank Marina	Washington D.C.

Fletcher's Boat House	Washington D.C.
Capitol Rowing Club	Washington D.C.
Old Dominion Boat Club	Alexandria, Virginia.
Potomac Boat Club	Washington D.C.
Jack's Boats	Washington D.C.
Seafarers Boat Club	Washington D.C.
Thompson's Boat Center	Washington D.C.
Tidal Basin Boat House	Washington D.C.
Washington Canoe Club	Washington D.C.
Washington Yacht Club	Washington D.C.
Earth Conservation Corps	Washington D.C.
National Capital Park – East	Washington D.C.

9.5 INFORMATION BULLETIN

Informational Bulletins that cover pertinent CSO topics are distributed by DC Water Customer Service Representatives to the public on request. A copy of the Informational Bulletin is included in Appendix 9-3.

9.6 CSO WARNING SIGNS

The Three-Party Consent Decree required DC Water to install larger CSO warning signs at sites it controlled, and to seek approval to install these new signs at locations controlled by the National Park Service, the Zoo, the Southeast Federal Center and the Navy Yard. The Zoo was the only approval agency that allowed installation of the larger signs. As a result, the following signs are installed at CSO outfalls:

- At DC Water controlled sites (CSO 001, 003, 009, 010, 011, 011a, 012) and at National Zoo controlled sites in Rock Creek (CSO 041, 042, 043, 044 and 045), the following 3' x 4' signs are installed:

- For all other outfalls, the signs shown below are installed. In accordance with a permit negotiated with the National Park Service, signs are 1' x 1' in size along Rock Creek and 2' x 2' in size along the Anacostia and Potomac Rivers.

APPENDIX 9-1

Excerpts from DC Water's Website

Environment

- Sewer System Improvements
- Reusing Biosolids in Agriculture
- Low-Impact Development
- Nitrogen Reduction Program
- Cleaning Our Waterways
- Chesapeake Bay
- Understanding the Watershed
- Partnerships and Community Activities
- Environmental Education
- Environment-Related Links
- For Kids

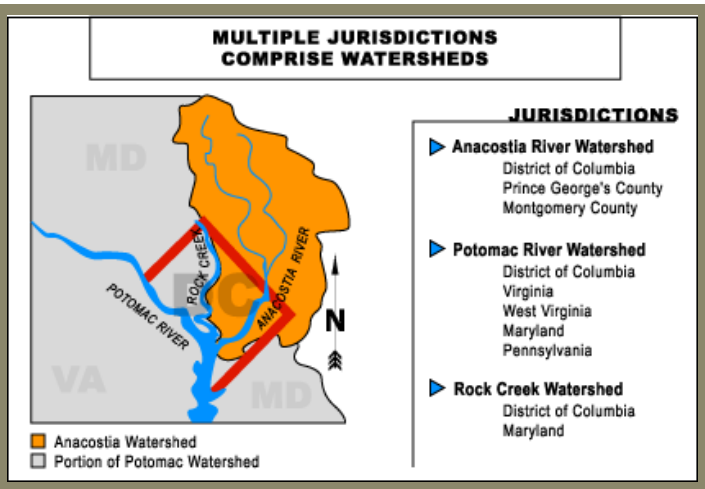
Understanding the Watershed

What Affects Water Quality?

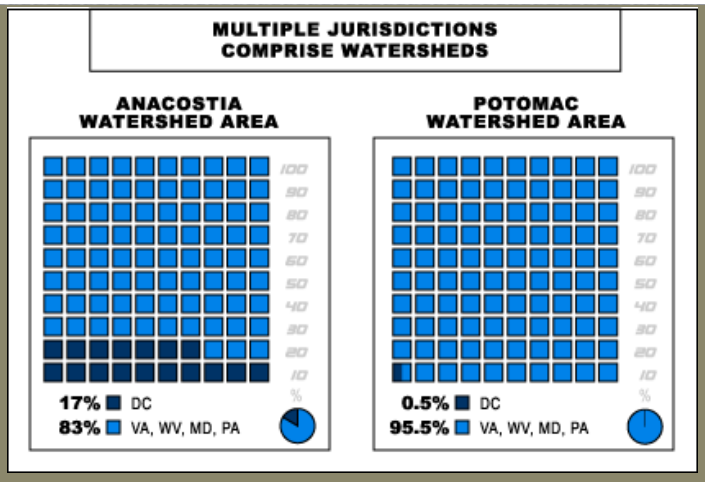
Water flows into the District from outside jurisdictions

The water in the Potomac River, Anacostia River, and Rock Creek flows into the District from outside jurisdictions. For example, the Potomac River begins in West Virginia, while the Anacostia River begins in Maryland. The quality of water in the District is thus affected by activities throughout the watershed. Storm water runoff from commercial, industrial, residential and agricultural sites, point source pollutants from wastewater treatment plants and industrial discharges, and combined sewer overflows(CSOs) from as far away as West Virginia and Pennsylvania all contribute to the quality of water in the District.

Multiple jurisdictions comprise the watersheds as shown below:



Multiple Jurisdictions Comprise Watersheds: Map



Multiple Jurisdictions Comprise Watersheds: Chart

TOP

What Are the Water Quality Impacts of CSO?

CSOs can adversely affect the quality of our receiving waters in the following ways:

- CSOs contain material which contributes to high bacteria levels in the receiving waters;
- Organic material in CSOs can contribute to low dissolved oxygen levels, which can contribute to a potential for fish stress or fish kills, especially in summer months; and,
- Debris in CSOs such as plastic bottles, styrofoam cups (otherwise known as "floatables") contribute to poor aesthetics.

DC Water has developed the Clean Rivers Project to control CSOs and improve water quality

TOP

What We Do

- Drinking Water
- Wastewater Collection
  - History of Sewer System
  - Combined Sewer System
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    - Preventing Sewer Overflows
    - CSO Predictions
    - CSS Reports
  - Sanitary Sewer System
  - Potomac Interceptor
  - Catch Basins
- Wastewater Treatment
- Fire Hydrants
- Projects & Initiatives

Preventing Sewer Overflows

You Can Help!

You can help improve the water quality in the District.

Please don't litter or use catch basins as trash receptacles! In addition to the unpleasant physical appearance, trash and debris deposited on public streets, private property and right-of-ways often washes into catch basins and storm inlets.

Trash on street washes into catch basin.

Catch basins can fill with trash.

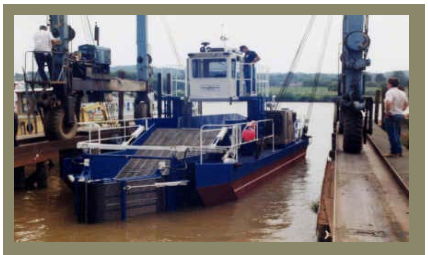
Don't use catch basins as trash receptacles or to dispose of leaves! Debris in catch basins can cause local flooding and increase the potential for dry weather overflows (see photo below).

Trash in the catch basins can cause problems.

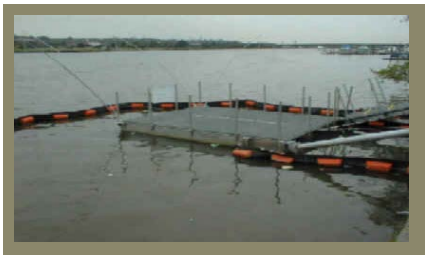
Trash on the Potomac River shoreline.

Handle household hazardous wastes responsibly! Improperly handled wastes often end up in storm, sanitary or combined sewers, increasing the potential for introduction into the environment. Examples of some typical household hazardous wastes include: paint, insecticides, cleaning fluids, and used automobile oil.

DC Water Is Doing Its Part! DC Water is doing its part to control & remove solids, floatables, and trash on the receiving waters.



Anacostia River Floatables Debris Program
DC Water operates boats which remove floatable debris from the Anacostia River. The program removes large quantities of debris, as illustrated

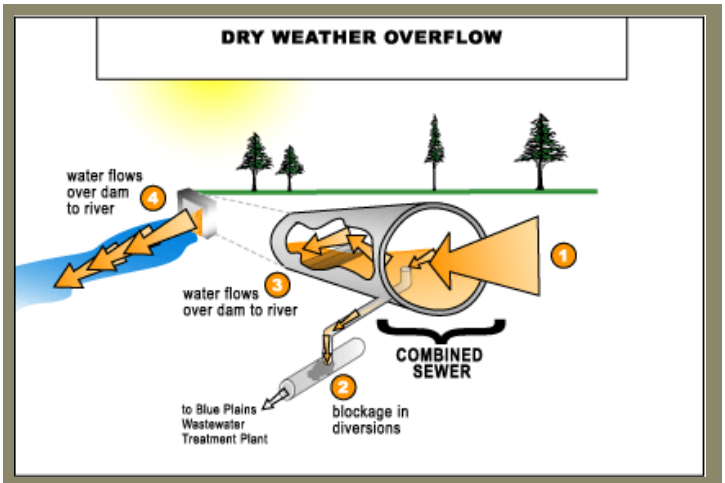


Anacostia Floating End-of-Pipe Netting System
DC Water is demonstrating a floating end-of-pipe netting system at CSO 018 on the Anacostia River

in the photograph above.

to remove solids and floatables from overflows. The system has been operational since April 2000.

Help Stop Dry Weather Overflows! During dry weather conditions, sanitary wastewater in the combined sewer system is not usually discharged to receiving waters. However, regulators, which control the flow of sanitary and storm waste in combined sewers, can become blocked by debris, trash, and other materials. When this occurs, the regulator's functions can be impaired and can result in minor overflows during dry weather. These are called Dry Weather Overflows (DWOs). DC Water has an intensive maintenance and inspection program to prevent DWOs from occurring. When DWOs do occur, DC Water corrects them and takes measures to prevent their recurrence.



Dry Weather Overflow

Report Dry Weather Overflows

If you notice a sewer overflow issue during dry weather, please call DC Water at 202-612-3400.

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Combined Sewer System Reports

DC Water Reports to the United States Environmental Protection Agency quarterly on the implementation of its long term plan for controlling CSOs (the Clean Rivers Project). This is a requirement of the CSS LTCP Consent Decree between DC Water and the Federal Government.

Total Nitrogen Removal/Wet Weather Plan

The report contains DC Water's latest plan for implementing Enhanced Nutrient (Total Nitrogen) Removal as required by the Chesapeake Bay Program and the Blue Plains National Pollutant Discharge Elimination System (NPDES) permit. DC Water is committed to have these reports available to the public.

- Summary & Findings (PDF 1018 kb)
- Total Nitrogen Removal/Wet Weather Plan (PDF 9.3 mb)

Show All 2012 2011 2010 2009 2008 2007 2006 2005

CSO Division Quarterly Operation Reports

DC Water Reports to the United States Environmental Protection Agency quarterly on the implementation of its long term plan for controlling CSOs (the Clean Rivers Project). This is a requirement of the CSS LTCP Consent Decree between DC Water and the Federal Government.

Date	Title	Type	Size
2012			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	788 KB

Show All

CSO Division Quarterly Operation Reports

Long-Term Control Plan Consent Decree Quarterly Reports

Three Party Consent Decree Quarterly Reports

3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	399 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	552 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	557 KB
2011			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	460 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	365 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	357 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	379 KB
2010			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	367 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	912 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	364 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	353 KB
2009			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	414 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	896 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	426 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	395 KB

2008			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	368 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	373 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	407 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	2.4 MB
2007			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	385 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	476 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	390 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	388 KB
2006			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	402 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	1 MB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	402 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	393 KB
2005			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	404 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	1.1 MB

2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	1 MB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	1 MB

Long-Term Control Plan Consent Decree Quarterly Reports

DC Water Reports to the United States Environmental Protection Agency quarterly on the implementation of its long term plan for controlling CSOs (the Clean Rivers Project). This is a requirement of the CSS LTCP Consent Decree between DC Water and the Federal Government.

Date	Title	Type	Size
2012			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	243 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	241 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	114 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	243 KB
2011			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	114 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	240 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	118 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	120 KB
2010			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	81 KB
3rd Quarter	Long Term Control Plan Consent Decree Status	PDF	120 KB

	Report		
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	174 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	177 KB
2009			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	95 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	175 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	173 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	209 KB
2008			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	86 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	130 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	126 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	131 KB
2007			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	71 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	128 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	126 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	124 KB
2006			

4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	123 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	131 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	131 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	71 KB
2005			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	132 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	125 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	241 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	203 KB

Three Party Consent Decree Quarterly Reports

DC Water reports to EPA and the parties to the Nine Minimum Control Consent Decree on progress in completing the projects identified in the 3-Party Consent Decree. Providing these reports is a requirement of this Consent Decree. DC Water is committed to having these reports available to the public

Date	Title	Type	Size
2012			
4th Quarter	3-Party Consent Decree Status Report	PDF	203 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	202 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	109 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	202 KB
2011			
4th Quarter	3-Party Consent Decree Status Report	PDF	110 KB

3rd Quarter	3-Party Consent Decree Status Report	PDF	202 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	109 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	107 KB
2010			
4th Quarter	3-Party Consent Decree Status Report	PDF	64 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	107 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	121 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	122 KB
2009			
4th Quarter	3-Party Consent Decree Status Report	PDF	65 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	123 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	123 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	69 KB
2008			
4th Quarter	3-Party Consent Decree Status Report	PDF	68 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	186 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	188 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	186 KB
2007			
4th Quarter	3-Party Consent Decree Status Report	PDF	70 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	73 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	72 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	125 KB
2006			
4th Quarter	3-Party Consent Decree Status Report	PDF	125 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	128 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	196 KB

1st Quarter	3-Party Consent Decree Status Report	PDF	335 KB
2005			
4th Quarter	3-Party Consent Decree Status Report	PDF	127 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	125 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	386 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	33 KB

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Combined Sewer System Contacts

DC Water wants to answer your questions about Combined Sewer Overflows (CSOs) and our efforts to continually keep our water supply safe and clean. If you have questions, please use the contact information below.

- For questions about CSOs, please call Ron Bizzarri, DC Water CSO Program Manager at 202-787-4473 or send an email to ronald.bizzarri@dcwater.com.
- In February 2007, management of the District's stormwater permit was transferred to the District Department of the Environment (DDOE). For more information, please visit DDOE's website or call DDOE at 202-535-2600.
- For all other matters, please contact DC Water at 202-787-2000 or click here for additional DC Water contact information.

Public Information Depositories

DC Water maintains copies of public information for review at the following public libraries in the District:

Martin Luther King, Jr. Library 901 G St. NW Washington, DC	Capitol View Library 5001 Central Ave. SE Washington, DC
Mount Pleasant Library 3160 16th St. NW Washington, DC	Northeast Library 330 7th St. NE Washington, DC
Southeast Library 403 7th St. SE Washington, DC	Shepherd Park Library 7420 Georgia Ave. NW Washington, DC
Tenley-Friendship Library 4200 Wisconsin Ave. NW Washington, DC	Washington Highlands Library 115 Atlantic Street SW Washington, DC
Woodridge Library 1801 Rhode Island Avenue, NEWashington, DC	

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Combined Sewer Overflow Model Predictions

CSOs should only occur during wet weather. Whether an overflow occurs and its magnitude depends on many factors including rainfall volume, rainfall intensity, whether it has rained in previous days. CSOs typically overflow more in wet years than dry years. More intense rains also make it more likely that CSOs will occur.

Yearly Predictions

Download a summary, based on computer modeling, of overflow events in an average year with typical rainfall (PDF 58 kb) . For each CSO, the document summarizes:

- Number of overflows
- Total overflow volume
- Estimated minimum rainfall volume necessary to cause an overflow
- Average duration of overflow.

Prior Quarter CSO Predictions

DC Water uses its computer model of the combined sewer system to predict the actual CSOs that have occurred in the prior calendar quarter. The most recent CSO prediction results (PDF 11 kb) are available for download.

What We Do

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- Projects & Initiatives
  - Active Workzones
  - Capital Improvement Program
  - Clean Rivers Project
    - A Drop's Life
    - About the Clean Rivers Project
    - Anacostia River Tunnel
    - Clean Rivers Project Facilities Quarterly Reports
    - Clean Rivers Project Quarterly Status Reports
    - Clean Rivers Project Updates
    - Current/Future Tunnel Capacity (PDF)
    - Groundbreaking

Clean Rivers Project

Restoring Our Rivers

The Clean Rivers Project is DC Water's ongoing program to reduce combined sewer overflows into the District's waterways - the Anacostia and Potomac Rivers and Rock Creek. The Project is a massive infrastructure and support program designed to capture and clean water during heavy rainfalls before it ever reaches our rivers

Protecting Our District

With the Clean Rivers Project, DC Water will protect the public from possible harmful substances in our wastewater. It is also cleaning up our waterways, by reducing the pollutants that enter our rivers and can be harmful to our wildlife.

What can you find in this section?

- A Drop's Life
  Learn about the Clean Rivers Project from the perspective of a single water drop, in this 4-1/2-minute cartoon.
- About the Clean Rivers Project
  Learn how the Clean Rivers Project works
- Anacostia River Tunnel
  The Anacostia River Tunnels project is the first Long-Term Control Plan project to begin construction. Check here for updates as the project progresses.
- Clean Rivers Project Facilities Quarterly Reports
- Clean Rivers Project Quarterly Status Reports

Ceremony
- Low-Impact Development
- Name the Tunnel Boring Machine Contest
- Photo Gallery
- The DC Watershed
- Tunnel Boring Machine (TBM) - Virtual Video

- Stimulus funds Projects
- Flooding in Bloomingdale and LeDroit Park
- 16th & Alaska Pumping Station Rehabilitation Project
- Anacostia Elevated Water Storage Tower Project
- Bryant Street Pumping Station Discharge Piping Replacement Project
- B Street/New Jersey Avenue Trunk Sewer Rehabilitation Project
- Cross-Town Tunnel Rehabilitation Project
- Fort Reno Pumping Station Rehabilitation Project
- Fort Stanton Reservoir Rehabilitation
- Glover-Archbold Park Sewer Rehabilitation Project
- Inspection of Sewers Under Buildings
- Internal Joint Repairs project

- Clean Rivers Project Updates
  Our semiannual updates on the project
- Current/Future Tunnel Capacity (PDF 52 kb)
- Groundbreaking Ceremony
  Senator Benjamin Cardin, Congresswoman Eleanor Holmes Norton, Mayor Vincent Gray and others joined DC Water to break ground on the Clean Rivers Project October 12, 2011.
- Low-Impact Development
  DC Water is exploring the use of low-impact development to capture stormwater before it enters our system.
- Name the Tunnel Boring Machine Contest
- Photo Gallery
- The DC Watershed
  Where the water flows
- Tunnel Boring Machine (TBM) - Virtual Video
  Learn about the tunnel boring process as part of the DC Clean Rivers Project.

APPENDIX 9-2

Informational Mailers

dc clean RIVERS PROJECT
RESTORING OUR RIVERS
PROTECTING OUR DISTRICT

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BIANNUAL REPORT APRIL 2012

COMBINED SEWER OVERFLOW (CSO) CONTROL ACTIVITIES

CLEAN RIVERS PROJECT NEWS

How Do We Love Green? Let Us Count the Ways

DC Water Appeals to U.S. EPA to Open Consent Decree and Pilot Green Infrastructure Program

Greening the District has a number of important benefits. It creates and sustains green jobs, increases property values, creates more shade and helps capture and reuse stormwater before it enters the sewer system. In the end, this improves river quality and may aid in keeping water and sewer bill increases below current projections.

DC Water is under a 2005 federal mandate to nearly eliminate combined sewer overflows (CSOs) to the Anacostia and Potomac Rivers and Rock Creek (see page 3 for more information on CSOs). The solution for the Anacostia River is a massive underground tunnel to hold and convey combined sewage from heavy rain events, and treat it at the Blue Plains Advanced Wastewater Treatment Plant.

Right now, the solution for the Rock Creek and Potomac area is a similar tunnel, but DC Water is exploring the potential for green infrastructure for these sewersheds. The goal is to create more green areas that will keep at least some stormwater out of the sewer system, possibly reducing the size of tunnels and shafts needed. A tunnel might even be eliminated if enough green infrastructure is built and maintained.

Greening the District would mean taking up hard, impervious surfaces and replacing them with grass and vegetation, through planting trees, making green roofs, and creating bioswales and rain gardens and other forms of low impact development.

Right now DC Water is constrained to the tunnel solution by the 2005 federal consent decree. DC Water is appealing to the US Environmental Protection Agency to reopen the consent decree and extend the timeline to allow for a pilot green program that would measure the feasibility of this concept. This would be of a scale not seen before, covering 50 acres of the Potomac and Rock

… continued on page 2

Tunnel Project Begins!

DC Water broke ground in October on its largest construction project ever—the Clean Rivers Project. Senator Benjamin Cardin, Congresswoman Eleanor Holmes Norton, Mayor Vincent Gray, and dignitaries from the Maryland Department of the Environment, District Department of the Environment and Joint Base Anacostia Bolling joined the celebration to kick off the largest construction project in the District since Metro was built.

The Anacostia River Tunnel will reduce combined sewer overflows into the Anacostia River by 98 percent. The tunnel also plays an important part of the nitrogen reduction treatment strategy for the Potomac River and Chesapeake Bay and will reduce flooding in Northeast DC.

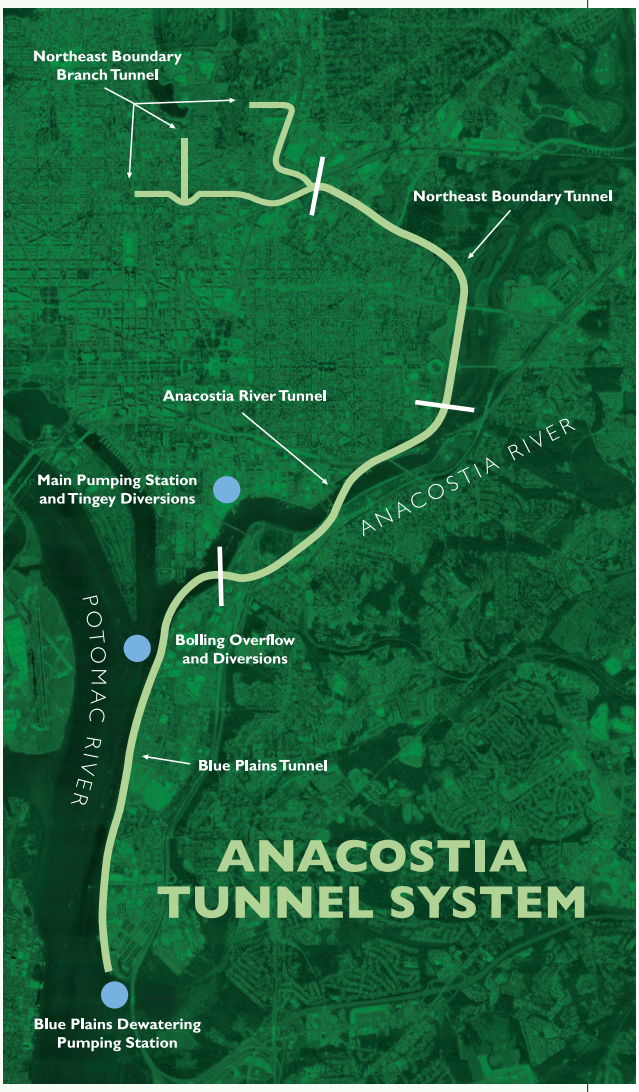
Right now, the work is focused on the Anacostia River Tunnel that will snake 13 miles up, and under, the Anacostia River at depths up to 120 feet. The first part of that system, named the Blue Plains Tunnel, is 23 feet in diameter and extends from Blue Plains in Southwest DC, roughly along the east bank of the Potomac, crossing under the Anacostia and extending along the west bank to about RFK Stadium.

From there, it extends north and west to form a segment known as the Northeast Boundary Tunnel. The tunnel segments south of RFK Stadium, together with their surface hydraulic facilities and a tunnel dewatering pump station, are scheduled to be put into operation by March 2018, providing relief to the Anacostia first.

Work has begun at the Blue Plains site to build the shaft through which the giant tunnel boring machine will be lowered and assembled. This machine along with its trailing support equipment is the length of a football field and will mine the tunnel like an oversized caterpillar moving underground. The dirt and rock will be removed, lifted to the surface and hauled away by the truckload. Additional shafts will be constructed along this section. Activity is underway and equipment is staged at some of these locations.

DC Water is building similar shafts and diversion facilities in the District at Division C (south of RFK Stadium) and Division E (Navy Yard). Contractor crews began work on the Division C contract last September. The Division E contract has been awarded and DC Water is currently finalizing agreements for relocation of utilities.

The tunnel boring machine is expected to be placed into operation in early 2013.



The Anacostia Tunnel System is 13 miles long and will be built in three distinct stages.

The first portion is called the Blue Plains Tunnel. Here construction begins at Blue Plains to build the shaft nearly 16 stories deep where the tunneling will begin.

continued from page 1 **How Do We Love Green? Let Us Count the Ways**

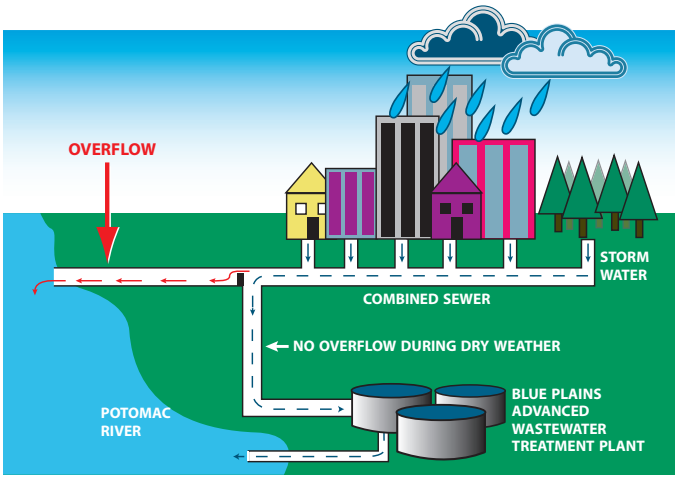
Creek sewersheds at a cost of between $10 and $30 million. The results of the pilot program could potentially shift the solution for these two waterways to a green rather than gray one. This approach is in line with recent EPA direction.

DC Water and EPA reconvened in late February of this year to receive EPA feedback. EPA was supportive of the concept but believes achieving the set water quality objectives through green infrastructure in the Georgetown area will be challenging. EPA is more encouraged by the prospect in the Rock Creek area. You can voice your support of allowing DC Water to develop and implement the green infrastructure pilot program by signing DC Water's petition at *dcwater.com/lid*

FAQs About the Combined Sewer System

What is a Combined Sewer?

A combined sewer is a single pipe that carries both sanitary wastewater and stormwater runoff. Many older cities in the United States are served by combined sewers. In the District, the combined sewer system was designed and built by the U.S. Army Corps of Engineers. Modern practice is to build two pipes in the street—one for stormwater runoff, and one for wastewater from homes and businesses.



What is a CSO and why does it occur?

A CSO is a combined sewer overflow. During dry weather, sewage from homes and businesses is conveyed to the District's wastewater treatment plant at Blue Plains, where the wastewater is treated to remove pollutants before being discharged to the Potomac River. During certain rainfall conditions, the capacity of a combined sewer may be exceeded. When this occurs, the excess flow, a dilute mixture of wastewater and stormwater runoff, is discharged to the Anacostia River, Potomac River, Rock Creek and tributary waters. The Federal Clean Water Act allows CSOs, but the Environmental Protection Agency (EPA) requires communities to develop a plan to address overflows. There are 53 CSO outfalls listed in DC Water's existing discharge permit from the EPA.

When do CSOs occur?

CSOs occur during wet weather and are more frequent in wet years than dry years. During years with average rainfall, DC Water estimates that combined sewers overflow into the Anacostia and Potomac rivers about 75 times annually, spilling nearly 1.5 billion gallons into the Anacostia and 850 million gallons into the Potomac. Rock Creek averages 30 CSO events and 52 million gallons of overflow a year.

Where are CSO Outfalls?

There are 10 CSO outfall locations on the Potomac River, 15 on the Anacostia River and 28 along Rock Creek and its tributaries. DC Water has posted signs for each outfall location.

What are the possible public health impacts of CSOs?

CSOs may pose a danger to the public because of the rapid flow of water exiting the outfalls and the potentially harmful substances it may contain. The public is advised to stay away from any sewer pipe discharge. CSOs could affect the receiving waters for up to 24 hours during small rainstorms and for up to three days when it rains one inch or more.

What are the environmental impacts of CSOs?

CSOs can adversely affect the quality of rivers and streams by contributing to high bacterial levels and low dissolved oxygen levels, which is harmful to fish and other aquatic life.

What is a Dry Weather Overflow (DWO)?

In dry weather, sanitary wastewater normally flows to the Blue Plains Advanced Wastewater Treatment Plant through pipes with regulators. During wet weather, regulators are designed to let the excess flow discharge directly to a river or creek. If regulators become blocked by debris or trash, wastewater can also overflow during dry weather. This is called a dry weather overflow (DWO). DC Water has an intensive maintenance and inspection program to prevent DWOs from occurring. If you see a CSO outfall discharging during dry weather, call DC Water at (202) 612-3400.

Where can you get more information?

You can learn more by visiting DC Water's website at ***dcwater.com/cleanrivers***. You may also contact DC Water's Office of External Affairs at (202) 787-2200.

The complete text of the Long Term Control Plan for Combined Sewer Overflows can also be found at the following public libraries: Capitol View, Mount Pleasant, Northeast, Woodridge, Southeast, Shepherd Park, Tenley-Friendship and Washington Highlands.

Ways to Green Your Neighborhood

You can employ plenty of sustainable practices to keep runoff from entering the sewer system and make your neighborhood more attractive at the same time.

- Rain barrels catch runoff from rooftops and store the water for gardening, washing cars and for other gray water uses.
- When selecting garden plants, look for varieties native to the region. These should soak up normal rains and not require too much extra watering. Their root structure does a better job soaking up water than turf grass. (In this region, this practice is called "BayScaping.")
- Plant a tree, shrubs or other plants to soak up rainfall.
- Replace impervious surfaces like driveways with grass or stone that allows water to infiltrate the ground, or use porous pavers.
- Create a neighborhood rain garden that redirects runoff from streets or walkways to water the garden.

For more information on how to green your home, DDOE has detailed information at: *ddoe.dc.gov/riversmarthomes*

This porous pavement allows water to infiltrate the ground instead of running into the sewer system.

Photo Credit: National Ready Mix Concrete Association

GM Hawkins Shares Vision for Greener DC at Green Project Summit 2012

DC Water hosted an informational low impact development (LID) meeting at its Blue Plains campus on February 29. Called the "Green Project 2012," this was a follow up to last year's Low Impact Development Summit at George Washington University. DC Water General Manager George Hawkins summarized progress since the 2011 meeting and introduced the Authority's proposal to reopen the federal consent decree and pilot a large-scale green project in the Rock Creek and Potomac sewersheds.

In attendance were District agencies including District Department of Transportation, District Department of the Environment, and the Office of Planning, all of whom would play an integral part in a green infrastructure solution; environmental groups like Casey Trees, Natural Resources Defense Council and the Anacostia Watershed Society; and other interested parties such as George Washington University's Office of Sustainability and the National Park Service, in addition to a dozen other groups. Mr. Hawkins shared his passion for the potential of a much greener DC and asked for support of the pilot program and re-opening the federal consent decree.

District of Columbia Water and Sewer Authority
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Green Infrastructure Reduces Runoff While Looking Great

Courtesy District Department of Environment (DDOE)

Green infrastructure (GI) can help in the campaign against runoff by using natural elements to absorb the first flushes of rainstorms, keeping that rain out of stormwater or combined sewer systems. Using the moisture to nourish vegetation is one way to capture the runoff—trees and treeboxes, rain gardens and green roofs use this method. Porous pavements allow the rain to penetrate the ground underneath, and rain barrels collect the rain during the storm, then make it available later for uses such as landscape irrigation. Greening the District with GI would create jobs, raise property values, clean the rivers and provide an enhanced ecosystem, all while beautifying the District.

Update on Green Infrastructure Component of DC Water's Plan

Earlier this year, DC Water proposed to U.S. EPA a review of the requirements for the Rock Creek and Potomac River portions of the consent decree. DC Water hopes to pilot a project that would test the ability of green infrastructure to serve as a solution to CSOs. The Authority may be able to reduce the tunnel sizes serving Rock Creek and the Potomac if the pilot proves to reduce enough runoff. Discussions with U.S. EPA have been positive, though at press time for this newsletter no decision had been reached.

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dc clean RIVERS PROJECT

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

BIANNUAL REPORT OCTOBER 2012

COMBINED SEWER OVERFLOW (CSO) CONTROL ACTIVITIES

CLEAN RIVERS PROJECT NEWS

The massive tunnel boring machine, with a view of the head that will eat through dirt and rock, more than 100 feet deep. Courtesy Herrenknecht AG

An Environmental Legacy for Washington DC

Growing up in the Caddo Lake Bayou Country in eastern Texas, Lady Bird Johnson exhibited a passion for the natural beauty she found around her.

When her husband became president in 1964 she made it her mission to preserve and protect the environment. In 1964 she formed *The Committee for a More Beautiful Capital*, whose positive contributions are still visible today. She encouraged her husband to declare the Potomac River "a national disgrace," which drew attention to the declining health of America's waterways and was a catalyst for the eventual Clean Water Act of 1972.

Almost fifty years later, a dramatic $2.6 billion program by DC Water is getting underway to reduce combined sewer overflows (CSOs) in the Anacostia River by 98 percent and by nearly as much in the Potomac River.

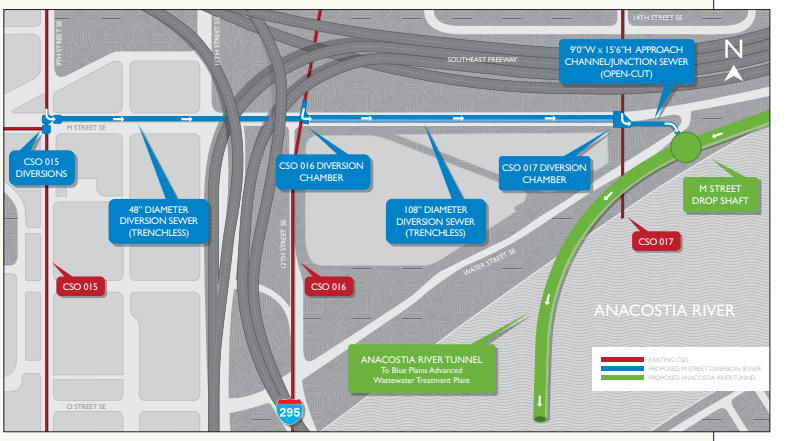
A 13-mile network of 23-foot-diameter tunnels will carry combined storm runoff and sanitary sewage to the Blue Plains Advanced Wastewater Treatment Plant for treatment rather than sending it to receiving waters untreated during heavy rainstorms.

The construction of the 13 miles of tunnels will be completed by a 1350 ton, 400-foot-long tunnel boring machine. As in nautical tradition these machines are typically given a feminine name. What better recipient of this honor could there be than our environmental First Lady, Lady Bird Johnson? The tunnel boring machine will be formally named during a ceremony in early 2013.

Be sure to follow DC Water on Twitter and Facebook as Lady Bird makes her journey to protect our waterways.

Division E (M Street) Construction to Address CSOs Along Southeast Waterfront

Although the project has many construction sites across the District, Division E (M Street) may well be the most visible outside of Blue Plains. Division E, in the Southeast Waterfront neighborhood, consists of three diversion sewers to capture CSOs from existing outfalls and along the future tunnel system on M Street between 9th and 14th Streets SE.



Proposed M Street Diversion Sewer and Anacostia River Tunnel

Communicating the construction impacts has been a high priority. DC Water and its contractors worked closely with the Capitol Riverfront BID (Business Improvement District) and ANC 6B, coordinated traffic advisories with DDOT, and conducted door-to-door delivery of door hangers to ensure residents, businesses and the boathouse community were notified in advance.

To date, most of the utility relocation has been completed and current efforts include rehabilitation of the East Side Interceptor and the 36-inch water main. The next phase will be the construction of two new sewer tunnels and three diversion structures (CSOs 15, 16 and 17) along with underground channels that feed into the larger tunnels.

Underway since April 2012, the project is scheduled to be completed in July 2014.

Plant your Rooftop and Reap a Rebate

Courtesy District Department of Environment (DDOE)

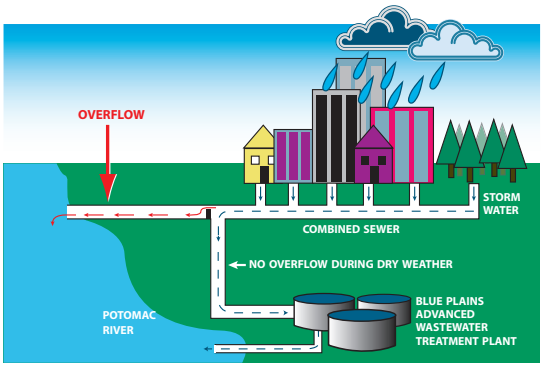
Adding a green roof to your building helps improve the environment by reducing the rain runoff that can overwhelm the combined sewer system or stormwater system. Now when you plant a green roof you can also reap a financial reward. The Anacostia Watershed Society and District Department of the Environment (DDOE) are offering $5 per square foot on a first-come, first-served basis for qualified DC buildings of any size. This program is available for residential, commercial and institutional properties and property owners must first complete the application process.

Green Roofs provide numerous ecological, health and economic benefits. The owner of a green roof can benefit from lower energy costs, extended roof-life, possible future fee/tax credits, and increased property values. Green roofs also improve the District's air quality, lower the heat-island effect, and improve water quality.

You can begin the application process by visiting *anacostiaws.org* and clicking on Green Roof Rebate Program in the upper right corner under Quick Links. For more information, or to register, contact AWS at (202) 557-5814 or (301) 699-6204 or *greenroofs@anacostiaws.org*.

FAQs About the Combined Sewer System

What is a Combined Sewer? A combined sewer is a single pipe that carries both sanitary wastewater and stormwater runoff. Many older cities in the United States are served by combined sewers. In the District, the combined sewer system was designed and built by the U.S. Army Corps of Engineers. Modern practice is to build two pipes in the street—one for stormwater runoff, and one for wastewater from homes and businesses.



What is a CSO and why does it occur?

A CSO is a combined sewer overflow. During dry weather, sewage from homes and businesses is conveyed to the District's wastewater treatment plant at Blue Plains, where the wastewater is treated to remove pollutants before being discharged to the Potomac River. During certain rainfall conditions, the capacity of a combined sewer may be exceeded. When this occurs, the excess flow, a dilute mixture of wastewater and stormwater runoff, is discharged to the Anacostia River, Potomac River, Rock Creek and tributary waters. The Federal Clean Water Act allows CSOs, but the Environmental Protection Agency (EPA) requires communities to develop a plan to address overflows. There are 53 CSO outfalls listed in DC Water's existing discharge permit from the EPA.

Where are CSO Outfalls? There are 10 CSO outfall locations on the Potomac River, 15 on the Anacostia River and 28 along Rock Creek and its tributaries. DC Water has posted signs for each outfall location.

When do CSOs occur? CSOs occur during wet weather and are more frequent in wet years than dry years. During years with average rainfall, DC Water estimates that combined sewers overflow into the Anacostia and Potomac rivers about 75 times annually, spilling nearly 1.5 billion gallons into the Anacostia and 850 million gallons into the Potomac. Rock Creek averages 30 CSO events and 52 million gallons of overflow a year.

What are the possible public health impacts of CSOs?

CSOs may pose a danger to the public because of the rapid flow of water exiting the outfalls and the potentially harmful substances it may contain. The public is advised to stay away from any sewer pipe discharge. CSOs could affect the receiving waters for up to 24 hours during small rainstorms and for up to three days when it rains one inch or more.

What are the environmental impacts of CSOs? CSOs can adversely affect the quality of rivers and streams by contributing to high bacterial levels and low dissolved oxygen levels, which is harmful to fish and other aquatic life.

What is a Dry Weather Overflow (DWO)? In dry weather, sanitary wastewater normally flows to the Blue Plains Advanced Wastewater Treatment Plant through pipes with regulators. During wet weather, regulators are designed to let the excess flow discharge directly to a river or creek. If regulators become blocked by debris or trash, wastewater can also overflow during dry weather. This is called a dry weather overflow (DWO). DC Water has an intensive maintenance and inspection program to prevent DWOs from occurring. If you see a CSO outfall discharging during dry weather, call DC Water at (202) 612-3400.

Where can you get more information?

You can learn more by visiting DC Water's website at ***dcwater.com/cleanrivers***. You may also contact DC Water's Office of External Affairs at (202) 787-2200.

The complete text of the Long Term Control Plan for Combined Sewer Overflows can also be found at the following public libraries: Capitol View, Mount Pleasant, Northeast, Woodridge, Southeast, Shepherd Park, Tenley-Friendship and Washington Highlands.

WHAT'S ON TAP?

dc water is life

NEWS FOR DC WATER CUSTOMERS | VOL. 13 ISSUE 1

General Manager's Message: Out in the Cold

Dear Customers,

I hope you had a terrific holiday season. For me, the holidays are always a time of good cheer, generosity, and perhaps spending some time away from work with family and friends.

But for a number of our dedicated employees, the holidays can also be a time of standing for hours, in the dark, in freezing water several inches deep. These are the members of Team Blue who fix water main breaks, which are common this time of year. DC Water averages about 400 breaks a year, with most happening when the weather is cold.

We have multiple crews from multiple departments on standby to address broken mains quickly, but we can't be everywhere at once. Our first reports of trouble often come from customers like you.

If you see water somewhere it shouldn't be, like bubbling up in the middle of a road or sidewalk, please call us at (202) 612-3400, send a tweet to *@dcwater* or visit *dcwater.com* on your mobile phone to report it. Water can freeze when it hits a paved surface, causing a danger for pedestrians and drivers. With your help, we'll continue to keep the water running and the streets safe this winter.

George S. Hawkins
gmsuggestions@dcwater.com

Did You Know?

The U.S. Geological Survey studied the Potomac River and released data in 2010 showing that nitrogen loads to the Potomac River from wastewater treatment plants has been cut almost in half since 1985, while submerged aquatic vegetation, a positive indicator of river health, has increased.

Nature Magazine's Richard A. Lovett noted that "efforts to clean up the Potomac River have markedly improved conditions for fish and waterfowl, reported a study in the Proceedings

see **DID YOU KNOW?** *continued on back*

Selected DC Water Achievements in 2011

In 2011, DC Water continued its global leadership in water sector science and technology. The Authority's 1,100-strong workforce made significant strides in environmental protection, customer service and regulatory compliance.

- **Three major groundbreakings.** Enhanced Nutrient Removal will protect the Chesapeake Bay and help DC Water meet its 2014 permit requirements. Digesters will generate clean, renewable energy to operate the Blue Plains Advanced Wastewater Treatment Plant while producing fewer and cleaner biosolids. The Clean Rivers Project is the District's largest construction project in a generation, building Metro-sized tunnels to keep billions of gallons of pollution out of the Anacostia and Potomac Rivers and Rock Creek.

- **An award-winning year.** The agency and the staff won numerous awards, including:
  - o 2011 Platinum Peak Performance Award (National Association of Clean Water Agencies)
  - o 2011 Environmental Leadership Award (Alliance for the Chesapeake Bay)
  - o 2011 George Bradley Gascoigne Medal for Operational Problem Solving and Improvement (Water Environment Federation)
  - o 2011 Ed Malemezian Utility Professional Best Practices Award (Utilimetrics)
  - o 2011 CIO 100 Award (CIO Magazine)
  - o Certificate of Achievement for Excellence in Financial Reporting (Government Finance Officers Association)
  - o 2011 Hermes Creative Award (Hermes Awards)
- **Serving customers better.** DC Water upgraded the technology in its customer service office and in the field, including a new call recording system to better evaluate the quality of service. The Authority is also working with Itron, a meter technology company, to use sound wave technology to better detect leaks along water distribution mains.
- **Reaching out.** The Authority continued to connect with its customers in new and innovative ways, including

see **ACHIEVEMENTS** *continued on back*

In an Emergency…

Though water emergencies are rare, there can be instances when special precautions should be taken. DC Water has experienced experts in emergency management and water quality on staff. In the event of an emergency, DC Water communicates with customers by reaching out to the media, posting information on the homepage, and contacting government agencies like the U.S. EPA and the CDC, as well as elected officials. In a short amount of time, the Authority makes a mass notification.

DC Water also provides customer information on water emergencies, such as what to do during a boil water advisory, on the website at: *dcwater.com/education/sudden_emergencies.cfm*. Bookmark the page on your web browser today to reference when you need it.

If there is an emergency and you have concerns about drinking water, please visit the website, pay attention to the media or call the 24-hour emergency line at (202) 612-3400.

GM Hawkins Cuts Ribbon at Waterfront Park

George Hawkins joined various dignitaries and several Presidents on November 22 to cut the ribbon on a new bridge connecting Diamond Teague Park and the Yards Park in Southwest. The bridge runs past DC Water's historic Main Pumping Station along the waterfront. DC Water supported the effort to provide historical and environmental information

about the buildings and area included on giant informational panels.

Achievements *continued*

standing-room-only town hall meetings, steady growth of the *@dcwater* Twitter feed, innovative marketing of tap water and aggressive outreach to national and local media.

- **Lending a helping hand.** More than 6,000 low-income customers received nearly $1.5 million toward their water bills through DC Water's two customer assistance programs.

Cold Weather and Cloudy Water

During cold weather, air bubbles can form in your pipes and cause tap water to appear cloudy. Naturally, cold water holds more air than warmer water. When water travels from the pipes in the street and into your household pipes, air bubbles escape and cause the water to temporarily appear cloudy or milky. If you experience cloudy water, simply run the tap water into a clear container and observe for a few minutes.

The water will eventually clear from the bottom to the top as the air bubbles escape. If you have questions, contact the Drinking Water Division at (202) 612-3440 or *drinkingwater@dcwater.com*.

Thawing Frozen Pipes in the Home

If you find you have a frozen pipe, you should immediately take steps to thaw the pipe to keep it from bursting.

First, locate and shut off the main water supply valve in case a pipe has broken. Next, open the faucet so that water will flow through the pipe once the area is melted. This will help melt more ice. Then, apply heat to or around the pipe. Keep all sources of heat away from flammable materials and do not use any open flame devices. Also, do not use devices that will cause the melted ice to boil, as that can also cause pipes to break.

Call a licensed plumber if you cannot locate the frozen section, you are unable to reach it, or you are unable to thaw it. Check for other frozen pipes in your home or business, especially those pipes that are located along an exterior wall or bring the water into the building at the foundation.

For emergency service inside your home, contact a licensed plumber. Call the DC Water 24-hour emergency line at (202) 612-3400 for water emergencies on public property.

Did You Know? *continued*

of the National Academy of Sciences." The article also quotes William Ball, an environmental engineer at Johns Hopkins University, saying, "Because much of the nitrogen decrease in the Potomac has been due to advanced wastewater treatment, this study is a strong validation of the importance of applying this technology worldwide."

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DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
George S. Hawkins, General Manager

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WHAT'S ON TAP?

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NEWS FOR DC WATER CUSTOMERS | VOL. 13 ISSUE 2

General Manager's Message: Front Page News

Dear Customers,

Happy New Year! You may have seen the recent *Washington Post* article, "Billions needed to upgrade America's leaky water infrastructure" on the front page. Reporter Ashley Halsey used a recent, complicated sewer repair in Adams Morgan to illustrate the challenges DC Water and other utilities face in maintaining aging systems.

This media attention is welcome and overdue. As one of my colleagues recently told a United States Senate committee, water and sewer infrastructure are underfunded by more than $600 billion nationwide. This is how much it would cost to keep pipes from breaking and to ensure quality service in the years to come.

The online version of the *Post* story drew hundreds of comments, many posing the legitimate policy question of how large a role the federal government should play in infrastructure funding. A number of commenters suggested the cities, or the end users, should pay the bill for needed upgrades.

I disagree. The federal government installed water and sewer systems in many cities, not just the District, and for years invested large sums in their upkeep. The infrastructure we maintain and operate is every bit as important as the roads, rails and bridges that are included in federal appropriations every year and were a major part of the recent stimulus package.

Roads, rails and bridges matter because they provide jobs and support society. Yet we can have no jobs – or society – without reliable, reasonably priced clean water. In an era of deficit spending and continued military involvement overseas, it's easy to argue that we can't afford to spend more on pipes. But I would argue that we can't afford not to do so.

With increased federal spending on water infrastructure, we have the chance to ensure clean water for the next generations and put people to work today. Now is the time.

George S. Hawkins
gmsuggestions@dcwater.com

National State of Water Infrastructure

The American Society of Civil Engineers (ASCE) in December released a report on the state of the nation's water and sewer infrastructure. The ASCE regularly evaluates infrastructure in each industry—transportation, water and sewer, bridges, dams, and more.

This water report looked at the economic impact of underinvestment, meaning what will it cost the nation in terms of lost business sales, loss in gross domestic product, job losses and water-borne illnesses if we don't step up to replace aging water and sewer systems. According to the authors, the U.S. could suffer more than $700 billion in losses by 2020 and ten times that amount by 2040 if we don't act more quickly.

The authors also analyzed the water infrastructure needs in the U.S. compared with current and projected spending to identify the funding gap. The U.S. Environmental Protection Agency sees the need at $126 billion in 2020, while roughly $42 billion will get funded, leaving a gap of $84 billion in repairs and projects that won't be addressed. This gap only widens over time.

Here in the District, DC Water has been paying attention. Two years ago, the Authority's Board decided to

see **NATIONAL STATE OF WATER INFRASTRUCTURE** *continued on back*

Did You Know?

Did you know DC Water offers automatic bill payment through Electronic Funds Transfer, which automatically deducts money from your checking or savings account? You still receive an itemized statement, but you don't have to write checks. Instead, the bank sends the funds for you and you can rest assured that your payment will be on time.

You may sign up for this option at *dcwater.com* on My DC Water under the "Pay my bill" option. Or you can set up recurring credit card payments in a similar fashion.

National State of Water Infrastructure *continued*

accelerate the pace of water main replacements, from .033 percent per year to 1 percent – or 11 miles—per year. This is twice the national average and three times what the Authority had been replacing. DC Water is ramping up to this schedule by 2015.

The rate of deterioration in sewer lines is not as predictable and some can last much longer than water mains since many are not pressurized. DC Water's sewers are inspected on a set schedule and any problems are identified and fixed. For local sewers, the Authority plans to inspect about 70 miles (or 4 percent of the system) each year, and rehabilitate as many as 15 miles (almost 1 percent), depending on the inspection results.

To aid in firefighting, DC Water developed GIS technology that is delivered to laptop computers in the fire trucks to give firefighters instant access to information about each of the 9,100+ hydrants in the District—their status, when they were last inspected, and how much fire flow to expect from each.

These capital programs, as well as huge environmental projects required by the U.S. EPA, come with significant costs that are currently borne mostly by ratepayers. Each year when the Board of Directors evaluates water and sewer rates, there is robust discussion about needs versus ratepayer burden. It is a necessary conversation and a delicate balance. But if we don't invest now, we will certainly pay later.

Spring Cleaning the District's Water Pipes

From March 26 through May 7, 2012, the disinfectant used for drinking water treatment will temporarily switch from chloramine (chlorine + ammonia) to chlorine. During this time, you may notice a slight change in the taste and smell of your drinking water. This standard switch in disinfection is part of an annual program to spring clean water pipes and maintain water quality throughout the year.

If you notice an increased chlorine odor:

- Flush the cold water tap for two minutes.
- Refrigerate a pitcher of cold tap water to allow the chlorine odor to disappear.
- Use a pitcher-style or faucet mount filter to remove chlorine taste and odor.

Individuals and business owners who take special precautions to remove chloramine from tap water, such as dialysis centers, medical facilities and aquatic pet owners, should continue to take the same precautions during the temporary switch to chlorine. Most methods for removing chloramine from tap water are effective in removing chlorine.

The Washington Aqueduct is the organization responsible for treating drinking water in the District. Water is routinely monitored throughout the city to ensure chlorine levels meet safe target levels. To view monthly chlorine levels, visit *dcwater.com/testresults*. For more info, contact the Drinking Water Division at (202) 612-3440.

DC Water Permit Operations Moves to Convenient Location in SW

Now offering fast track service. Some new fees in effect.

Anyone performing construction that will affect, either directly or indirectly, the public water or sewer systems must first obtain approval from DC Water and get permits from the Department of Consumer Regulatory Affairs (DCRA), the District Department of Transportation (DDOT), and the District Department of the Environment (DDOE).

The DC Water Department of Permit Operations is the starting point for most of DC Water's permit services. This office can provide mapping of the existing water and sewer infrastructure and can answer many general questions.

The DC Water Department of Permit Operations recently moved from Blue Plains to be conveniently co-located with DCRA, DDOT and DDOE. The new address is 1100 4th Street SW, 3rd floor, Washington, DC 20024.

All permit applications, reviews, fee assessments, fee payments and questions will be handled at this new office. The option of an expedited or "fast track" review for a fee has been added and staff will pre-screen permit submissions at intake to determine completeness and the amount of review fees. Fees will now be collected at the time of submission.

The new phone number for the Department of Permit Operations is (202) 646-8600. Please check *dcwater.com/permits* for updated contact information, staff extensions, and submission requirements and fees.

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George S. Hawkins, General Manager

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WHAT'S ON TAP?

dc water is life

NEWS FOR DC WATER CUSTOMERS | VOL. 13 ISSUE 3

General Manager's Message: Fats, Oils and Grease

Dear Customers,

You may have noticed that within this space I often address national and global issues related to water and wastewater.

On the local level, I have been asked by many individuals what they can do in their everyday lives to make a difference to the District of Columbia's water and sewer system. This month I am using this column to talk about something simple, yet very critical to our sewer system.

Fats, oils and grease that go down the drain wreak havoc in the sewer system, sticking to the inside of sewer pipes that are located on both public and private property. Over time, this creates a build up of hardened grease, effectively making the inside of the pipe smaller and smaller, until it entirely blocks the flow. Clogged sewers lead to serious problems including backups and overflows in homes and in the streets.

Backups can cause property damage, expensive cleanup and repairs, and health risks. Backups that overflow into the street may end up in the stormwater system, which discharges directly to local waterways, creating additional health risks and environmental harm.

You can help by keeping fats, oils and grease out of your plumbing and out of the sewer system. Use a can to collect cooking grease, put a lid on it, and throw it out in the garbage. Commercial kitchens should do the same, and also install grease interceptors in both sink and floor drains. Each one of us can make positive changes that help protect our water and sewer systems and the environment.

George S. Hawkins
gmsuggestions@dcwater.com

TOWN HALL MEETINGS BEGIN IN MARCH

DC Water proudly hosts the spring Town Hall Meetings in the months of March and April. Come out to hear the General Manager of your water utility explain what your water bill pays for. Please check *dcwater.com/customercare/rates.cfm* for the latest schedule and contact information.

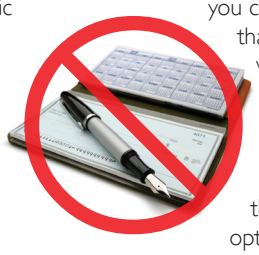
DC Water Cleans Air Over C&O Canal

More than a decade ago, DC Water began investigating ways to reduce odors along the 50-mile Potomac Interceptor, where vents from the large sewer produced an odor noticeable in the air above ground. The Authority researched the problem and arrived at a plan. All parties came together for a groundbreaking for "Operation Clean Air" in spring 2010. Six "scrubbing facilities" with advanced technology and carbon filters will clean the air and allow DC Water to close most of the vents along the sewer. This is welcome news for outdoor enthusiasts who enjoy the C&O Canal and Clara Barton Parkway.

After securing more than 40 permits, the Authority was able to begin construction on facilities at three Maryland sites and one District site. This construction should be completed in late 2012. DC Water continues working to secure the required permits for the two Virginia sites. Contingent on these permits being granted, the Authority plans to begin construction later this year. DC Water and community groups along the interceptor have worked for years on this solution.

Did You Know?

Did you know DC Water offers automatic bill payment through Electronic Funds Transfer (EFT), which automatically deducts money from your checking or savings account? You still receive an itemized statement, but you don't have to write checks. Instead, the bank sends the funds for you and you can rest assured that your payment will be on time. You may sign up for this option at *dcwater.com* on My DC Water under the "Pay my bill" option. Or you can set up recurring credit card payments in a similar fashion.



DC Water Offers Customer Service 24/7 through Voice Recognition Program in English and Spanish

Language line supports 100 languages during business hours

DC Water offers customer service in many ways. Customers and the public can access information on the website, *dcwater.com*, anytime and even pay bills or report a problem online. Or during business hours, customers may call (202) 354-3600 for Customer Service.

The Authority has a voice recognition program on its Customer Service phone line in both English and Spanish so that customers can get information about their services, their bills or receive answers to other questions, anytime. For emergencies, there is a 24-hour Command Center located at the Customer Service Center, reachable at (202) 612-3400.

For customers who speak other languages, assistance is offered through the Language Line, which supports about 100 different languages. Those who need assistance in another language can simply call in and ask for a specific language. DC Water connects with the Language Line in a three-way call, where the Language Line serves as translator.

DC Water Launches New Mobile Application

You can download and use DC Water's new mobile application to report a problem. Even better, your location can be automatically dispatched if your phone has GPS functionality. You can still reach us through all the old channels as well—tweet *@dcwater*, call our Command Center at (202) 612-3400, or visit the website at *dcwater.com/report_problem/*

April is Earth Month – Join Volunteers from Across the Region to Clean Up Our Waterways

Anacostia Watershed Society (AWS) Annual Earth Day Cleanup and Celebration

Saturday, April 21, 2012
Cleanup: 9 a.m.-12 p.m.
Celebration: 12 p.m.-2 p.m.

Location:
Cleanup: Various sites throughout the Watershed.
Celebration: RFK Parking Lot #6 and #7
Please visit *anacostiaws.org* for more information.

Alice Ferguson Foundation's Potomac River Watershed Cleanup

Saturday, April 14, 2012
Cleanup: 9 a.m.-12 p.m.

Contact the Cleanup Coordinator at (202) 973-8203 or *potomaccleanup@fergusonfoundation.org*

Spring Cleaning the District's Water Pipes

Beginning in March, DC Water will begin its annual flushing program to clean the District's water distribution system. During this program, DC Water opens fire hydrants and flushes water mains throughout the city. Each year, the flushing program and a temporary switch in water disinfection are conducted to enhance drinking water quality and minimize the impacts of aging pipes. The average age of a water main pipe in the District is 77 years old.

Customers will be notified when DC Water flushes hydrants in their area. Crews will perform flushing between 10:30 p.m. and 6:30 a.m., when water usage is typically low. Flushing may cause temporary water discoloration and customers are recommended to run cold water taps for a few minutes until water clears. Customers may also notice a slight change in the taste or smell of their water during the temporary switch in water disinfection that will occur March 26 through May 7. For more information or to report a water quality issue, contact the Drinking Water Division at (202) 612-3440.

dc water is life

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
George S. Hawkins, General Manager

Customer Service Department 810 First Street, NE
Washington, DC 20002 | **DCWATER.COM**

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WHAT'S ON TAP?

dc water is life

NEWS FOR DC WATER CUSTOMERS | VOL. 13 ISSUE 4

GM's Message

Dear Customers,

My team and I visited every ward in the District again this year, asking for your comments at the town hall meetings DC Water co-sponsored with members of the DC Council. I want to thank you for a great turnout and your excellent questions.

The next step as the Board considers the proposed rates for your water and sewer service is a public hearing Wednesday, May 9 at 6:30 p.m. at the Metropolitan Washington Council of Governments, 777 North Capitol Street, NE. If you are unable to attend or are reading these words after it took place, the Board would still like to hear from you. Please submit your comments to:

DC Water
Office of the Board Secretary
5000 Overlook Avenue, SW
Washington, DC 20032

Also feel free to send comments on our proposed rates, or anything else, to me at the email address below.

George S. Hawkins

George S. Hawkins
gmsuggestions@dcwater.com

Don't Tamper With the Hydrants

Local swimming pools will soon be buzzing, air conditioners are humming, and the bells of the ice cream truck can be heard in the distance. It is important to stay cool and hydrated. A fun summer is a safe summer and opening fire hydrants is dangerous and can cause serious injury to anyone, but especially children.

Opening a hydrant lowers water pressure and hinders firefighting by reducing the flow of water to hoses and pumps. Illegally opened hydrants can cause problems at hospitals and other medical facilities. They generally release more than 1,800 gallons of water per minute. Considering this is our most valuable resource, we should use it wisely.

There are plenty of other ways to stay cool. Request one of DC Water's misting tents at *dcwater.com* for your annual summer festival of 100 people or more. Go to an air conditioned theater, museum or mall. Take a dip in your local pool, but please do not tamper with the District's hydrants. Save yourself from harm and paying the unnecessary fine. Enjoy the summer, and make it a safe one!

Tap Water Disinfectant Returns to Chloramine

Beginning May 8, 2012 the Washington Aqueduct will resume using chloramine (chlorine + ammonia) for drinking water disinfection. Chloramine is a common drinking water disinfectant used most of the year and provides long-lasting protection as water flows through the District's large distribution system and to your tap.

Customers who take special precautions to remove chlorine from tap water, such as dialysis centers, medical facilities and aquatic pet owners, should take the appropriate precautions for removing chloramine.

March 26 through May 7, 2012, the disinfectant used for drinking water treatment was temporarily switched to chlorine. The Washington Aqueduct is the organization responsible for treating drinking water in the District. Water is routinely monitored throughout the city to ensure disinfection levels meet safe target levels. To view monthly water quality results, visit *dcwater.com/testresults*. For more info, contact the Drinking Water Division at (202) 612-3440.

Celebrate Your Tap Water

Imagine a day without water for drinking, showering, flushing toilets and fighting fires. Every year, National Drinking Water Week celebrates the essential role of safe, reliable water systems. May 6 -12, 2012, DC Water will highlight the importance of the District's water system in supporting household water usage, fire protection and thriving communities.

We invite you to join DC Water and celebrate the importance of your tap water. Every faucet and fountain in the District relies on DC Water to deliver more than 106 million gallons of water each day. Countless water professionals and processes are involved in ensuring water is treated, tested and delivered across more than 1,300 miles to your tap. The Washington Aqueduct is responsible for drinking water treatment in the District. DC Water purchases water from the Washington Aqueduct and ensures high quality water is delivered to more than 600,000 residents.

Ensuring tap water quality is a shared responsibility of DC Water and individual residents. Check out DC Water's new Household Water Quality Guide. To view the guide, visit *dcwater.com/homeguide.*

Did You Know?

DC Water publishes an Annual Report each year highlighting the Authority's achievements in operations, employee relations, customer service, environmental stewardship, and financial performance. The report covering Fiscal Year 2011 (October 2010-September 2011) is now available.

To download an electronic copy, please visit *dcwater.com/annualreport.* Print copies are available by calling the Office of External Affairs at (202) 787-2200.

Dial Before You Dig

MISS UTILITY

Summer is fast approaching and you may want to build that deck before the first barbecue. Before you begin any major outdoor projects that involve digging, call "Miss Utility" at (800) 257-7777. "Miss Utility" is a one-call notification system used in DC, Maryland and Virginia that alerts participating utilities of upcoming excavation so they can locate and mark underground utilities in advance to prevent damage or disruption of service. The law requires you to notify "Miss Utility" at least two working days before digging. Remember dial before you dig… Miss Utility at (800) 257-7777 or (800)-552-7001 for Northern Virginia.

Free Water-Wise Landscaping Guide

This year, landscape with native plants to lower your water bill and absorb rain before it becomes runoff in the stormwater system. Plants that are native to the area thrive on local conditions, requiring less watering while soaking up rain. They also need less fertilizing and pesticide application, which can pollute our waterways.

DC Water offers customers a *Water Wise-Landscaping and Watering Guide*. To download a copy of the publication, please visit *dcwater.com/landscapeguide.* You can also have one sent to you by contacting the Office of External Affairs at (202) 787-2200.

dc water is life

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
George S. Hawkins, General Manager

Customer Service Department 810 First Street, NE
Washington, DC 20002 | **DCWATER.COM**

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WHAT'S ON TAP?

dc water is life

NEWS FOR DC WATER CUSTOMERS | VOL. 13 ISSUE 5

General Manager's Message

Dear Customers,

In the next few weeks, you'll be receiving your 2011 Water Quality Report in the mail. DC Water sends this information to every address in the District – whether the customers at that address pay a water bill or not.

This report is a great opportunity for us to remind you how reliable and cost-effective your drinking water is. For good reason, tap water is subject to more stringent regulations than most products you can use at home – including bottled water.

We hope you'll take the time to learn how DC Water works to make sure the water we deliver meets these regulations and beyond. This includes the results of the thousands of water quality tests we perform every year. You can also find last year's report, detailed test results, and answers to common questions about water quality at *dcwater.com/waterquality*.

George S. Hawkins

George S. Hawkins
gmsuggestions@dcwater.com

Did You Know?

To help keep things cool when the temperature rises, DC Water has two misting tents available for large festivals of 100 or more people. Reserve one for your large event online at *dcwater.com/mistingtent* or call the Office of External Affairs at (202) 787-2200.

One Year Later – Nitrogen Removal Project on Track

A year ago, DC Water broke ground on a $950 million project called the Enhanced Nutrient Removal (ENR) facilities. Today, the beginning portion of the project is nearly 40 percent complete, as construction of a major pumping station and 35-foot-deep tanks continues.

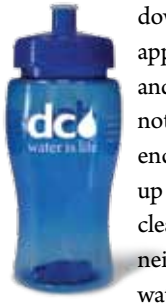
The project's mission is to reduce the level of nitrogen from the cleansed wastewater that DC Water discharges at Blue Plains. Nitrogen can act as a fertilizer in the Potomac River and Chesapeake Bay, creating profuse, unruly grasses that deplete oxygen needed by marine life to live and thrive.

Once the project is completed, Blue Plains will produce effluent with some of the lowest levels of nitrogen in the country. At 4 milligrams per liter, not only is it extremely low, it is considered at the limit of technology.

So far the progress made includes the installation of more than 2,000 foundation piles that, if placed end to end, would be more than 22 miles long; the excavation of over 100,000 cubic yards of material; and the placement of more than 50,000 cubic yards of concrete – enough to make a 22-foot-wide roadway over 11 miles long. The ENR facilities will be operational in the summer of 2014.

Hydrate for Free – No Bottled Water Necessary

More than 160 cafés and restaurants in the District provide free water bottle refills for people carrying reusable water bottles. TapIt™ is a city-wide water refilling network that offers filtered and unfiltered drinking water options. During the hot summer months, hydration is important. With a reusable water bottle, you can get free, chilled water at any TapIt location and save money spent on bottled water.



Find TapIt locations that are on your way to work, school, on your exercise route, and in your favorite areas of the city. Visit *tapitwater.com/dc* or download the iPhone app. If your local cafés and restaurants are not TapIt partners, encourage them to sign up – it's free. Let's clean up our neighborhoods, local waterways and keep plastic bottles out of landfills. Drink tap, protect the environment and save your money. Grab a reusable bottle and fill up for free.

Inquisitive Minds Find Answers on First "Down the Tubes Ride"

On April 1st, 50 enthusiasts combined their interests in bicycling and water/wastewater infrastructure for the "Down the Tubes" ride with DC Water and the Washington Area Bicycle Association. The two organizations created a bike ride and tour of DC Water's facilities including the Drinking Water Division at Ft. Reno, Bryant Street Water Pumping Station and the Main and O Street Sewer Pumping Stations. DC Water staff members delighted the inquisitive crowd with detailed briefings at each stop. The 13-mile ride ended on the banks of the Anacostia River with a discussion about the Clean Rivers Project and Blue Plains. From there, many boarded the Metro with their bikes and headed back to the start at the Tenleytown station.

Photo courtesy of The Washington Area Bicyclist Association

Prevent Flooding and Sewer Backups

Severe weather can cause seasonal flooding. When a major storm approaches, DC Water's Sewer Services crews deploy to District neighborhoods prone to flooding. They clean the catch basins, inspect stormwater pumping stations and make sure backup generators are ready.

Customers are reminded to pick up trash and debris from the sidewalk and street to reduce the risk of flooding in their own buildings when rains come. Otherwise, the trash enters the sewer system and clogs the sewer lines, ultimately causing sewer backups.

If you notice street flooding, please call DC Water's 24-hour Emergency Command Center at (202) 612-3400. To request a copy of DC Water's free brochure on preventing flooding and sewer back ups, call the Office of External Affairs at (202) 787-2200 or download it at *dcwater.com* under "Publications."

Be Prepared for Hurricane Season

Hurricanes pack powerful forces and can cause massive damage and injury. Hurricane season is June 1 to November 30, with the peak season occurring between mid-August and October. Residents are urged to protect themselves, their loved ones and their property.

Coastal areas are not the only ones affected. Inland areas can experience wind and flood damage. DC Water offers the following precautions to take when the weather service reports impending severe weather or hurricane. Do the following before severe weather arrives:

- Visit *ready.gov/hurricanes*
- Keep a first aid kit handy, including flashlights and extra batteries.
- Keep a battery-powered radio nearby.
- Maintain an emergency supply of food and bottled water for your family and pets.
- Visit *dcwater.com/education/water_emergencies.cfm* and print out how to prepare for and respond to water emergencies.
- Listen to media reports if serious weather has damaged water and sewer infrastructure.
- Call DC Water's 24-hour Command Center for true water and sewer emergencies at (202) 612-3400.

dc water is life

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
George S. Hawkins, General Manager

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WHAT'S ON TAP?

dc water is life

NEWS FOR DC WATER CUSTOMERS | VOL. 13 ISSUE 6

General Manager's Message: Beat the Heat. Drink Tap.

Dear Customers,

Another long, steamy summer in the District means it's important to replace the fluids your body loses to the sun.

If you're out and about on a hot, sunny day, the best way to stay hydrated is to avoid alcohol and caffeine and to drink water instead. And the best way to drink water is to drink tap. Why turn to bottled water, with its environmental and financial costs, when it's never been more convenient to drink DC tap?

Our team continues to visit major festivals and community events all summer, bringing cold, refreshing tap water and reusable bottles to thousands of people. And our TapIt™ network of businesses where you can refill your water bottle for free has expanded to the suburbs. You'll find hundreds of locations at *tapitwater.com/dc*.

George S. Hawkins

gmsuggestions@dcwater.com

Bill Roundup Makes a Difference

One in five District residents lives in poverty, and many households struggle to pay their bills. You can help families keep their critical water and sewer services by simply rounding up your bill to the next nearest dollar. Every dollar goes to helping families pay their bills. You also have the option of rounding up plus $1 and rounding up plus $2. It's as easy as checking the box on the bottom of your bill.

To learn more, including other ways to donate, please contact a Customer Care Associate at (202) 354-3600.

Free Household Water Quality Guide

Ensuring clean and reliable tap water is a shared responsibility of DC Water and individual residents. DC Water monitors and maintains water quality in the distribution system. Homeowners are responsible for maintaining plumbing on private property. When water flows from the treatment plant to your taps, factors in the distribution system and household plumbing can affect your water quality.

DC Water offers customers a Household Water Quality Guide. Learn about your household plumbing, tips for ensuring water quality and how to identify water quality issues. To download a copy of the guide, visit *dcwater.com/homeguide* or request a mailed copy by contacting the Office of External Affairs at (202) 787-2200.

Be a Part of Team Blue!

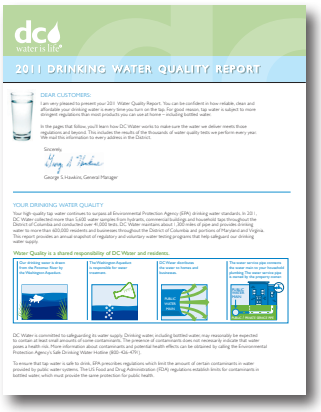
Want a job where you make a difference? DC Water is always looking for a wide range of skills in professional and labor occupations to help deliver life-sustaining water and sewer services. Join Team Blue and work alongside employees who take pride in their jobs that support the lives and livelihoods of everyone in the nation's capital. DC Water employees enjoy a great benefits package, supportive working environment and mission-driven work. Visit us online at *dcwater.com/jobs* or call the Office of Human Capital Management at (202) 787-2220 for more information.

Annual Drinking Water Report Released

Each year, DC Water releases a report about the quality of your tap water. This year's report highlights that your drinking water continues to surpass all federal drinking water standards and is a summary of test results collected in 2011. The Annual Drinking Water Quality Report provides a snapshot of regulatory and voluntary water testing programs that help safeguard the drinking water supply. In 2011, DC Water collected more than 5,600 water samples from hydrants, commercial buildings and household taps throughout the District of Columbia and conducted more than 41,000 tests.

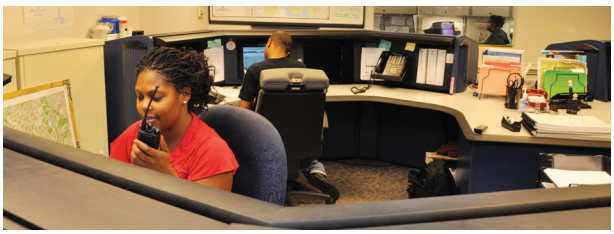
The US Army Corps of Engineers, Washington Aqueduct draws water from the Potomac River and is responsible for drinking water treatment. DC Water purchases water from the Washington Aqueduct. The Aqueduct is responsible for water quality monitoring in the Potomac River and testing treated water before it enters the District's distribution system. To view the Washington Aqueduct's Annual Water Quality Report, visit *dcwater.com/WADreport*

The annual report is mailed to every resident in the District. To view the report and current monthly water quality results, visit


dc water is life
2011 DRINKING WATER QUALITY REPORT
DEAR CUSTOMERS:
George S. Hawkins, General Manager
YOUR DRINKING WATER QUALITY

dcwater.com/testresults or call (202) 787-2200 to request a copy.

Where the Action Is



In the midst of DC Water Customer Service operations at 810 First Street is a vital communications hub called the Emergency Command Center. This group operates 24/7/365 to field calls from the public—reporting suspected—water main breaks or sewer problems, low water pressure or water outages. The Command Center staff dispatches investigators and repair crews as needed and coordinates with the District Department of Transportation (DDOT), Metropolitan Police Department (MPD), Fire and EMS (FEMS), contractors and other District agencies. They also keep in touch with DC Water staff and managers, and wield cell phones, landlines, computers and 800 MHZ radios as their tools of the trade.

If you have a water or sewer emergency, please contact the Command Center on the emergency line at (202) 612-3400. They are at the ready!

You're Saving Water Indoors – How About Outdoors Too?

By now you've heard many ways to conserve water indoors, but have you thought about conserving water outdoors, too? In addition to planting native plants that thrive on average weather conditions, and therefore need less watering, there is also an irrigation controller that adjusts automatically according to everything going on in the yard! This technology reduces the overall amount of water used, and can reduce your water bill, saving you money and helping to conserve a precious resource.

The programming information includes:

- light conditions (varying degrees of sun vs shade)
- plant type
- amount of slope
- soil type

Another feature is the on-site weather sensor that communicates current weather data on a regular basis back to the controller. The weather station measures rain fall and temperature and compares this information with the programmed historical data based upon the zip code entered. As weather conditions change, the irrigation schedule adjusts accordingly on a daily basis. Check your local hardware or home improvement store for smart irrigation controllers.

For more ways to use water wisely, please visit: *wateruseitwisely.com*

dc water is life

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
George S. Hawkins, General Manager

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WHAT'S ON TAP?

dc water is life

NEWS FOR DC WATER CUSTOMERS | VOL. 13 ISSUE 7

General Manager's Message: Meet the Board.

Dear Customers,

You see my picture in every issue of *What's On Tap?*, as the public face and the chief executive of DC Water. But this month, I'd like to tell you a little about another group of people who are also very much in charge.

DC Water is an independent agency of the District Government, governed by a Board of Directors instead of directly by the Mayor. The Board consists of 11 principal members and 11 alternates, representing the District, Montgomery and Prince George's Counties in Maryland, and Fairfax County in Virginia. The Chairman, who must by law be a District resident, is William M. Walker. The members serve four-year terms.

The members of this body set DC Water's policy and annual budget, and decide on the rates you pay for the services we provide. I also serve at their pleasure. In short, they have a big role in our work!

Board meetings are open to the public and take place the first Thursday of every month, except August. You'll find more details on the Board and its work at *dcwater.com/theboard*.

George S. Hawkins
gmsuggestions@dcwater.com

Did You Know…

…that a single leaking toilet in your home can add hundreds of dollars to your water bill in just one month? Check out the latest in the *Wendy the Waterdrop* videos as Wendy discovers how it all adds up and what you can do if you have a leak. Visit *bit.ly/toiletvideo*

Drain Your Water Heater Annually

Ensuring quality tap water is a shared responsibility of DC Water and homeowners. Draining your household water heater is an important step for maintaining high water quality. Over time, sediment, bacteria and metals can build up in your water heater tank, impacting water quality and minimizing household water pressure. Homeowners are recommended to drain a water heater annually or more frequently if discoloration or low water pressure are experienced from hot water taps.

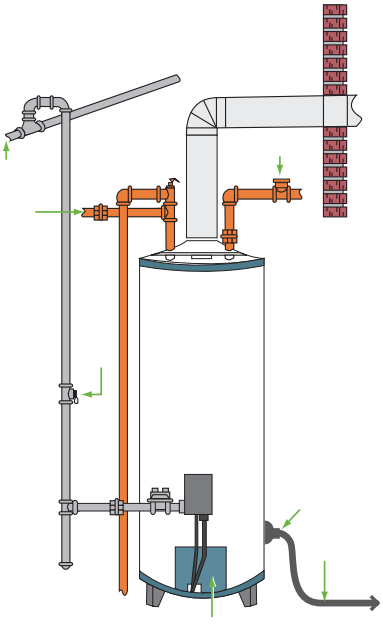
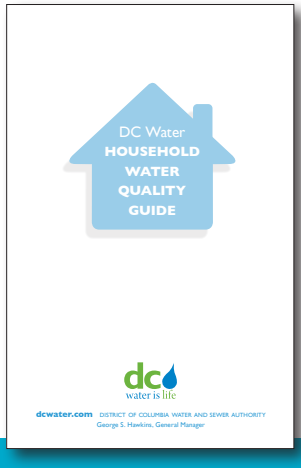


Diagram of a gas water heater. Electric water heater will vary slightly.

Due to the impacts of the water heater on your household water quality, you should not use hot tap water for drinking and cooking. Hot water dissolves contaminants and may contain metals, sediment and bacteria from the water heater. When using water for cooking or drinking, always use cold tap water.

DC Water provides instructions for draining your water heater or you can contact a licensed plumber. For more information visit *dcwater.com/homeguide* or contact the Drinking Water Division at (202) 612-3440.



What to Do in an Emergency

During the windstorm of June 29 that brought power outages to more than a million people across the Mid-Atlantic, DC Water was lucky to sustain very little damage. Two short-lived power losses at sewer pumping stations were resolved with emergency generators and it became business as usual.

Others weren't so lucky. Neighboring water suppliers lost power to pumping stations and ordered mandatory water restrictions or a boil water alert. So how would a DC Water customer know if there were issues with the DC system?

DC Water posts emergency information on the homepage of the website and works closely with the media. For those without power, though, getting to the Internet or watching television may not be an option. Therefore, we recommend a battery-operated radio to listen to news reports. DC Water also operates a 24/7 Emergency Command Center that customers can call with questions: 202-612-3400. You may want to print out directions in advance for emergencies such as a boil water alert. These can be found at: *dcwater.com/boil*.

Otherwise stay tuned to local officials, local media and, and follow DC Water on Twitter: *@dcwater*

DC Water lent a helping hand to the District, supplying large front-end loaders, tandem trucks, operators and laborers to assist the Department of Transportation (DDOT) in removing storm debris. DC Water continued its assistance for a week after the storm. "DC Water's help was invaluable in getting the roads open more quickly," said DDOT Director Terry Bellamy. "They had the right equipment, the right people and provided a service to DC residents this week."

IMPORTANT CUSTOMER CONTACT NUMBERS AND INFORMATION

Customer Billing: (202) 354-3600 (8 a.m.-5 p.m., M-F)
News and Publications: (202) 787-2200 (8 a.m.-5 p.m., M-F)
Water and Sewer Emergencies: (202) 612-3400 (24 hours)
Drinking Water Quality: (202) 612-3440 (8 a.m.-5 p.m., M-F)

Customer Care and Operations

The DC Water department known as Consumer Services has changed names, though the department function and structure remain the same. Now called "Customer Care and Operations" it includes Water Services, Sewer Services, Water and Sewer Pumping and Customer Service. Together these four sectors care for residents, businesses, and visitors throughout the District by repairing and replacing water and sewer infrastructure, answering questions and solving problems concerning water rates, permits, emergencies, bills and payments.

"The old name was vague," said DC Water Assistant General Manager Charles Kiely. "***Customer Care and Operations*** accurately represents the work the department does and will be less confusing for our customers, the public and our own personnel."

DC Students Help Solve Real-World Water Challenges

From installing rain barrels and planting rain gardens at schools, to helping restore the population of native fish in the Anacostia River—students in the ***Be Water Wise DC*** program showed their water smarts to their peers, educators and city officials.

Students from 13 participating schools presented their water conservation efforts in the 2011-12 school year at a ceremony June 1st at the DC Council.

DC Water is a partner of ***Be Water Wise DC***, developed by the National Environmental Education Foundation (NEEF) with sponsor HSBC Bank and other city agencies, businesses and organizations.

View photos & learn more at *neefusa.org*.

Be water wise DC!

dc water is life

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
George S. Hawkins, General Manager

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NEWS FOR DC WATER CUSTOMERS

1937 **WHAT'S ON TAP?** 2012

VOL. 13 ISSUE 8

Special Anniversary Issue!

General Manager's Message

The people, processes and facilities at Blue Plains do this region the great service of treating the water that we all use on a daily basis—that is, taking the city's and region's dirty water and making it clean again.

Sewer pipelines and wastewater treatment 75 years ago, though basic, were heralded for cleaning up the waterways and providing protection from disease. Over time, the need for better treatment became evident, and Blue Plains added processes and capacity. Today, our plant is nothing short of a remarkable technical marvel.

It is a green factory, where we can pull off nutrients and recycle them back to the land, and where we cleanse the water and return it to the Potomac River. In a couple of years, we'll be able to generate heat and electricity through processing the solids.

Blue Plains is an original, successful and efficient recycling facility and I am proud of the work that we do.

George S. Hawkins

Blue Plains Turns 75!

In July 2012, Blue Plains celebrated 75 years of providing the region with the highest levels of wastewater treatment and bringing the world innovative research that influences treatment solutions around the globe.

In July 1937, the Blue Plains Sewage Disposal Plant opened for limited operations, ushering in a new era in sanitation. Previously, open sewers ran through the city and discharged to the waterways without treatment, carrying with them the potential for infectious disease outbreaks. The federal government commissioned the construction of Blue Plains, under the Public Works Administration as part of FDR's New Deal and funded the $4 million construction. There was heavy debate about whether the plant should offer secondary treatment or just primary.

In the end, Blue Plains began with just 12 primary clarification tanks and acres of unused land. Through massive upgrades over the last 75 years, today's Blue Plains has primary, secondary, tertiary and filtration wastewater treatment processes. These take up almost all of the 153-acre site -- and more facilities are being built to protect the environment. Blue Plains is held to some of the strictest discharge permit levels in the world, requiring cutting-edge scientific research to achieve. DC Water's research team operates on Blue Plains and in collaboration with highly regarded researchers around the world.

For more information—and to see the timeline— please visit *dcwater.com/bp75*

Through the Years

Prior to 1937 The federal government created separate Water and Sewer Departments

1953 Chlorination facilities added for disinfection

1955-1960 Capacity was expanded to 240 MGD and secondary treatment added

1982 Advanced waste water treatment added

1983 Became WASUA

1996 Became DC WASA

1997 Biological Nitrogen Removal pilot begins

2000 Nitrogen removal implemented

2009 George Hawkins appointed GM

2010 Became DC Water

2011 Three massive environmental projects break ground

Did You Know?

Decades ago, when Blue Plains was running out of places to put sludge (now called biosolids), they started piling it up at the south end of the plant. This was dubbed "Sludge Mountain" and someone was required to measure it every week. At its tallest, it was 90 feet high and 5 acres at the base.

Clean Rivers Project

This $2.6 billion program will dramatically reduce combined sewer overflows in the District, helping to improve water quality in Rock Creek, the Potomac and Anacostia rivers and ultimately the Chesapeake Bay. The first part of the project is building a shaft on Blue Plains where a massive tunnel boring machine will be lowered, assembled and will make its way—100+ feet underground—along and under the Potomac and Anacostia Rivers! Additional shafts are being constructed along the tunnel alignment including Poplar Point near I-295 and South Capitol Street.

Latest news: *DC Water would like to pilot a $10 to $30 million Green Infrastructure (GI) project for the Rock Creek and Potomac portions of the plan. The Anacostia River tunnel solution is moving along as planned, but DC Water wants to test the viability of using GI to reduce runoff enough to reduce the size or eliminate the other two tunnels while greening the city and creating sustainable jobs.*

Work on the Enhanced Nutrient Removal Facilities (ENRF) began in 2011 and is due to be completed in 2014. It is just one of three massive construction projects on Blue Plains.

What's New at Blue Plains—All that Construction!

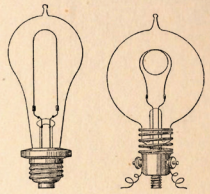
Just driving by the Blue Plains facility anyone can see the flurry of construction activity—20 cranes, hundreds of construction workers and a steady stream of vehicles in and out of the plant. There are three major projects underway, totaling almost $4 billion.

Enhanced Nutrient Removal Facilities

This $950 million project will reduce nitrogen in the treated wastewater from 8.5 million pounds per year to 4.4 million pounds per year. The solution includes modifying the existing nitrification / denitrification tanks and building additional large denitrification tanks that use microbes to transfer nitrogen in the liquid to a gaseous form, releasing it from the wastewater.

Nitrogen can cause algae blooms that deplete oxygen in the water that marine life needs to survive. Nitrogen is found in agricultural runoff and suburban and urban runoff, as well as wastewater treatment plants. DC Water was the first to meet the Chesapeake Bay Agreement goals for nutrient reduction and is on target to meet the new requirements in 2015.

Latest news: *This project is already halfway complete, on time and on budget, and should be operational by late 2014.*



Thermal Hydrolysis/ Anaerobic Digestion

This is the only one of the three big projects that is not mandated by the federal government—this project makes economical sense as it allows DC Water to create energy (heat and electricity) from the wastewater treatment process.

Latest news: *The base slabs for the digesters are down and construction is on track for a 2014 ribbon-cutting.*

Did You Know?

From 1969-1974, the U.S. EPA and the District piloted a large, national research center at Blue Plains, investigating all major wastewater treatment technologies. It later moved to Cincinnati, Ohio.

WHAT'S ON TAP?

dc water is life

NEWS FOR DC WATER CUSTOMERS | VOL. 13 ISSUE 9

General Manager's Message: Join Our Team

Dear Customers,

If you're looking for work, we may be looking for you. DC Water has about 1,100 employees all across the District of Columbia. We have the traditional water, sewer, wastewater and engineering jobs you'd probably expect from a utility such as ours. But we also hire lawyers, accountants, outreach workers, drivers and office staff – just to name a few.

DC Water offers competitive pay and one of the best public-sector benefits packages in the metropolitan area. Our employees also go home from work knowing they have a role in providing a service our species – and every species – depends on for survival. I have been the head of this agency for a little more than three years, and on my worst day, this is still the best job I've ever had.

Have a look at our recruitment website at *dcwater.com/jobs* today or visit us on LinkedIn. You might soon find yourself part of the team we call Team Blue.

George S. Hawkins

George S. Hawkins
gmsuggestions@dcwater.com

Keep Leaves Out of Catch Basins

Catch basins (also known as storm drains) are an often overlooked part of the District's infrastructure. They are usually located within a curb and are a vital part of flood control, allowing water to quickly drain from the streets. If these basins get clogged by falling leaves, trash or other debris, flooding may result.

Many catch basins in the District are connected to the storm sewers, which may drain directly into area waterways. Others connect to combined sewers and, if clogged, may cause sewer backups or overflows.

Help keep catch basins clear by properly collecting and disposing of fallen leaves. Please don't rake leaves into the street. Instead, you can use them as mulch to reduce weeds, conserve moisture and moderate soil temperatures in your garden or flower beds. Or you can bag them up for recycling. The DC Department of Public Works (DPW) will collect bagged leaves from the curbside treebox space. These leaves will be recycled. Bagged leaves placed in the alley where trash and recycling are placed will be collected with the trash as space in the truck permits. The District Public Works Department (DPW) will collect up to five bags (per week) of yard waste from residences that receive DPW trash and recycling collection services. Yard waste is bagged leaves, grass clippings, weeds, bulbs, twigs, pine cones, and uprooted

see **CATCH BASINS** *continued on back*

Help a Family in Need—Give to SPLASH

As the year winds to a close, many people think about giving to those who are in financial hardship. At DC Water, we encourage gifts to SPLASH (*Serving People by Lending a Supporting Hand*) to help families maintain their most critical of all services—water and sewer. SPLASH is an emergency fund to help those struck with an immediate, temporary need and who would otherwise face service shut off.

The good news is that giving is easy. Customers can use the *Round Up* feature when they pay their bill by check through the mail to round up to the next nearest dollar, or to add $2.00 or customers can add a check to add

see **SPLASH** *continued on back*

Taste the Challenge: Tap versus Bottled

Can you taste the difference between tap and bottled water? Hundreds of people across the District are finding they prefer DC tap water over bottled water or can't taste a difference between the two samples. Even more, only about half of people can correctly identify a blind water sample as tap or bottled.

So why are people choosing to pay for bottled water when tap water is cheap, clean and tastes good? The DC Water Taste Test Challenge Series shows people that bottled water isn't necessary, especially when tap water is only a penny per gallon. DC tap water is high quality and tested more frequently than bottled water. If people prefer, a certified water filter is a better option than the financial and environmental costs of bottled water.

For more information about DC tap water, visit *dcwater.com/tap*. If you carry a reusable water bottle, you can find free water bottle refills at more than 180 District locations at *tapitwater.com/dc*.

SPLASH *continued*

any amount above their bill. Non-customers can donate by making a check payable to DC Water SPLASH program and mailing it to 810 First Street, NE, Washington, DC 20002.

In the last 11 months, donors contributed $89,807 which assisted more than 325 families on the brink of losing service. Qualifying customers may also be able to take part in a program that provides a discount on both water and sewer services. Contact the District Department of the Environment (DDOE) at (202) 673-6700 to apply for that program.

While many DC Water employees have given passionately to the SPLASH fund for years, DC Water is making it even easier for employees to contribute through automatic paycheck withdrawal. Please join us in helping District customers keep their water on.

Catch Basins *continued*

plants. Please visit *http://1.usa.gov/OpwPEc* or call (202) 645-8245 for more information, or follow this schedule:

- Once-a-week trash/recycling customers should put bagged and bundled yard waste where their trash is collected at the same time the trash container is placed.
- Twice-a-week trash/recycling customers should put their yard waste out with the trash on their second collection day.

Don't Pour Grease Down the Drain

Pouring oil or grease down your drain can lead to a blockage and even a sewer backup– causing property damage, environmental problems, and other health hazards. Fats, oils and grease, known as FOG, are a major cause of sewer blockages.

FOG gets into the sewers from residential and commercial establishments. Restaurants are required to have grease interceptors or "grease traps" to prevent FOG from entering the sewer system, but not all are in compliance.

FOG sticks to the inside of storm and sewer pipes on both private and public space. Over time, it builds up and eventually blocks the pipe, causing sewage backups and overflows. Clogged sewers can lead to overflows into the street, eventually entering the storm drain system. At that point, the overflow may be carried to local waterways, creating health risks for people and marine life.

For additional information, please call DC Water's Sewer Services Department at (202) 264-3820. To report a sewer emergency, please call the 24-hour Command Center at (202) 612-3400.

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DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
George S. Hawkins, General Manager

Customer Service Department | 810 First Street, NE
Washington, DC 20002 | DCWATER.COM

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WHAT'S ON TAP?

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NEWS FOR DC WATER CUSTOMERS | VOL. 13 ISSUE 10

General Manager's Message: Making a SPLASH

Dear Customers,

I hope this holiday season finds you well. This time of year brings colder weather and shorter days, but also the pressure of spreading household resources thinner.

Some of our customers need your help. DC Water has two programs to help low-income residents in the District. We call our emergency assistance program SPLASH for short. It makes the difference for dozens of customers each year who are about to lose their service because they can't afford to pay the bill.

This year, for the first time, DC Water employees will have the chance to donate to SPLASH through a deduction on their paychecks. I am encouraging every member of our team, and our Board, to pitch in on a regular basis – even with a nominal donation.

I hope you will join them. You can make a tax-deductible SPLASH donation by rounding your bill up to the nearest $1 or $2, by sending a separate check with your payment, or by visiting *razoo.com/splash* online.

George S. Hawkins
gmsuggestions@dcwater.com

Keep Coal Tar out of our Ecosystem

Coal tar is used in pavement products and is highly toxic, known to have harmful impacts on humans and animals and is suspected to cause cancer. Concentrations of toxic polycyclic aromatic hydrocarbons (PAHs) in coal-tar-based pavement sealants are about 1,000 times higher than in alternative asphalt-based products.

see **COAL TAR** *continued on back*

Water Main Breaks in the District

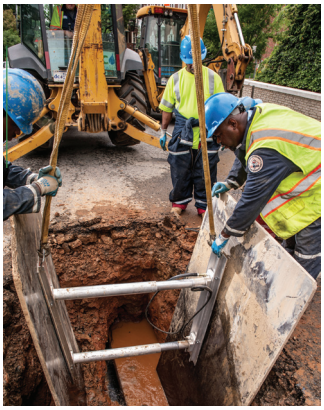

Photo courtesy of USEPA

As the weather turns cold, we experience more water main breaks. This is due to the expansion and contraction of the pipe material, weakening the water mains. Pipe corrosion, soil conditions, age and ground movement can also cause a water main break, creating unexpected problems for customers and motorists.

DC Water averages about 400 water main breaks per year and most occur in the winter months. For this reason, the Authority schedules more stand-by crews in the winter months and in recent years has cross-trained sewer repair workers to also make water main repairs.

Water main repairs are prioritized based on several factors such as severity of the break, impact to customers and the environment, potential damage to public and private property, and unsafe traffic conditions due to street flooding. Emergency water main breaks can cause widespread service disruptions and are considered critical repairs by DC Water crews.

DC Water's newest Wendy the Water Drop video on **YouTube** explains the steps involved in repairing a water main break. It can be viewed at: *bit.ly/mainbreaks*.

Anyone observing tap water running from streets or sidewalks is encouraged to report the leak for a crew to inspect. To do this, call DC Water's 24-hour Command Center at (202) 612-3400, or report it on the website *dcwater.com* or tweet *@dcwater* with a picture and location. Please provide specific information about the location and appearance of the break when reporting a water emergency. For listings of current repairs, please visit the website and click the "Current Workzones" link.

Cold Weather and Cloudy Water

During cold weather, air bubbles can form in your pipes and cause tap water to appear cloudy. Naturally, cold water holds more air than warmer water. When water travels from the pipes in the street into your household pipes, air bubbles escape at your taps and cause the water to temporarily appear cloudy or milky. This is not a health concern.

If you experience cloudy water, simply run the tap water into a clear container and wait a few minutes. The water will eventually clear from the bottom to the top as the air bubbles escape. If you have questions, contact the Drinking Water Division at (202) 612-3440 or *drinkingwater@dcwater.com*.

Coal Tar *continued*

Since 2009, it has been illegal to sell, use, or permit the use of coal-tar pavement products on District property, subject to a daily fine of $2,500. Please do not use, or allow others to use, coal-tar-based sealant on your parking lot, driveway, etc. Contractors and distributors should provide a Material Safety Data Sheet that lists product ingredients or components. Do not use products with ingredients that include the words "coal," "tar," "refined coal tar pitch," or "RT-12."

- You can demand the use of a much less toxic asphalt-based sealer instead of coal-tar-based products. Don't allow a mixed product containing both coal tar and asphalt to be used. For new projects, consider using porous concrete.
- Homeowners may DISPOSE of unused sealant products at District Household Hazardous Waste Disposal sites.

Help protect the health of waterways, marine life, animals and people by knowing what's in your pavement products. For more information please contact Kate Judson at the District Department of the Environment, at *kate.judson@dc.gov* or (202) 407-1277.

Photo courtesy of DDOE

Water and the Environment: Education through Tours, Speaker's Bureau and Website

Want to learn more about water and the environment? DC Water offers several ways. You can take a tour of the Blue Plains Advanced Wastewater Treatment Plant. It's the world's largest facility of its kind and more than a thousand people tour it each year. Local, regional and international visitors come to Blue Plains to learn how wastewater from the sewer system is treated and cleaned through a series of steps and ultimately recycled and returned to the Potomac River.

Public tours are held on Thursday mornings throughout the year. Middle and high schools can schedule class trips on Wednesdays, for grades 6 and up. The minimum age of all visitors is 12 years old, and individuals 18 and older must present a valid, government-issued ID to enter the facility.

All tours are scheduled on a first-come, first-served basis. If you wish to visit Blue Plains, please submit your request at least two weeks in advance by visiting *dcwater.com/about/tours.cfm* and completing the tour request form. You may also call the number below.

If you can't come to DC Water, the Authority may be able to come to you. DC Water staffs a wide range of experts on its Speaker's Bureau to offer presentations to neighborhood associations, schools, business and civic organizations, community groups and religious institutions. Groups of 10 or more can request a speaker at dcwater.com, by clicking on *Customer Services and Outreach* and selecting **Speakers Bureau** or by calling the number below.

Finally, the website, at *dcwater.com*, offers information on the Authority's programs and services, construction projects and the environment. If you can't find your answers there, please call (202) 787-2200.

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DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
George S. Hawkins, General Manager

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APPENDIX 9-3

Informational Bulletin

District of Columbia Water and Sewer Authority

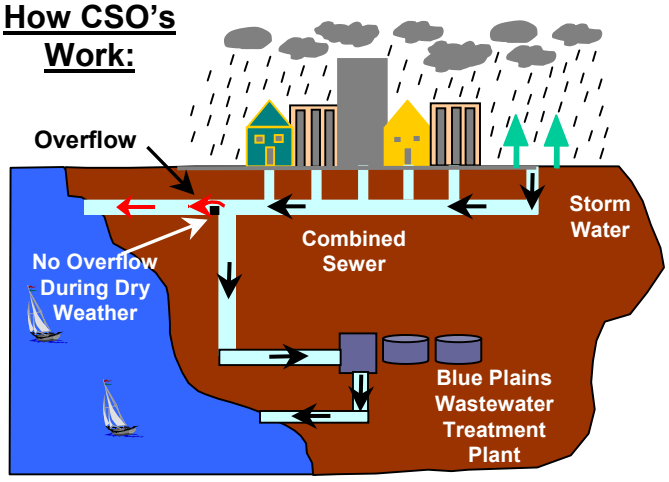
Serving the Public • Protecting the Environment

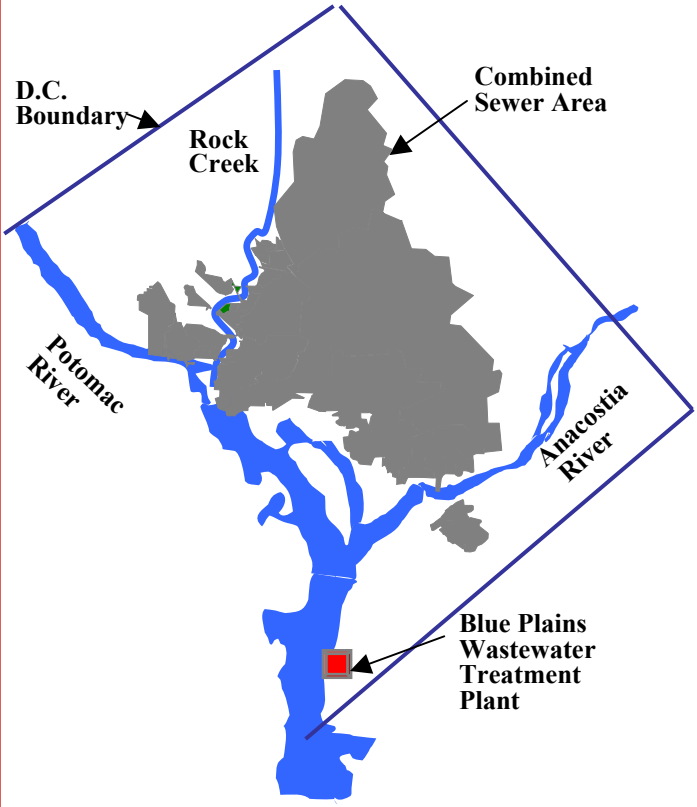
CSO Information Bulletin

What is a Combined Sewer?

Many older cities in the United States are served by combined sewers. A combined sewer carries both sewage and runoff from storms in a single pipe. Modern practice is to build two pipes in the street - one for storm water runoff, and one for wastewater from homes and businesses. No new combined sewers have been built in the District since the early 1900s. Combined sewers are located mostly in the older developed areas of the District. The figure below shows the CSO area in the District.

How CSO's Work:





What is a Combined Sewer Overflow?

During dry weather, sewage from homes and business is conveyed to the District's Wastewater Treatment Plant at Blue Plains. There the wastewater is treated to remove pollutants before being discharged to the Potomac River.

During certain rainfall conditions, the capacity of a combined sewer may be exceeded. When this occurs, the excess flow, which is a mixture of sewage and storm water runoff, is discharged to the Anacostia River, Potomac River, Rock Creek and tributary waters. If these flows were not released to local waterways, there would be widespread street flooding and basement backups. There are a total of 53 CSO outfalls in the system.

Where are the CSO Locations?

There are 10 CSO locations on the Potomac River, 15 CSO locations on the Anacostia River, and 28 CSO locations along Rock Creek and its tributaries. WASA has posted a sign at each CSO outfall, similar to what is shown below. The location of each outfall is shown on maps on WASA's web site at www.dcwasa.com.

When do CSOs Occur?

CSOs should only occur during wet weather. Whether an overflow occurs and its magnitude depends on may factors including rainfall volume, intensity and on whether it has rained in previous days. CSOs typically occur more in wet years than dry years.

How Can CSO's Affect the Environment and Human Health?

CSOs can adversely affect the quality of the receiving waters by contributing to low dissolved oxygen and high bacteria levels. Discharges may also be dangerous to the public due to the high flow of water that may exit these sewers (outfalls) and due to potentially harmful substances that may also be present in these discharges. The public is advised to stay away from any sewer pipe discharge.

Example CSO Outfall – CSO 040 to Rock Creek

You Can Help! Don't litter, or use catch basins as trash receptacles or to dispose of leaves. Dispose of hazardous substances properly. These simple measures can reduce the impact of CSOs and make our rivers better.

Signs like these are posted at CSO Outfalls

What is a Dry Weather Overflow?

The sanitary flow collected in the combined sewer during dry weather is routed to the Blue Plains Wastewater Treatment Plant through facilities called regulators. During wet weather, the regulators are designed to let the excess flow (or CSO) discharge directly to a river or creek. During dry weather conditions, sanitary wastewater in the combined sewer system should not be discharged to receiving waters. However, regulators can become blocked by debris, trash, or other materials. When this occurs, the regulator's functions can be impaired and can result in overflows during dry weather. These are called Dry Weather Overflows (DWOs). WASA has an intensive maintenance and inspection program to prevent DWOs from occurring. When a DWO does occur, WASA corrects it and takes the necessary measures to prevent its reoccurrence. If you see a CSO outfall discharging during dry weather, call DCWASA at (202) 612-3400.

What is WASA Doing About CSOs?

WASA has proposed an aggressive plan for reducing CSOs and improving water quality called a Long Term Control Plan (LTCP). The plan calls for constructing storage tunnels to capture CSOs during rain events providing a 98% reduction in CSO to the Anacostia River, and a 96% reduction in CSO overall. The plan is currently being reviewed by EPA. Details on the plan can be found on WASA's web site at www.dcwasa.com.

More Information? Learn more about CSOs by visiting WASA's web site, www.dcwasa.com or by contacting Dr. Mohsin Siddique at (202) 787-2634.

RECYCLED PAPER

Updated: July 2003

Section 10
Monitoring

10.1 NPDES PERMIT REQUIREMENTS

The requirements in the NPDES permit for this NMC are as follows:

- Operate and maintain the SCADA system that monitors activation of selected CSO outfalls.
- Monitor and record debris removed by the Anacostia River Floatable Debris Removal Program.
- Monitor and record flow, screenings removal and disinfection at the Northeast Boundary (NEB) Swirl Facility.
- Monitor and record demonstration floatables removal at the end of pipe netting system at CSO 018 and the bar rack CSO 040 and 041.
- Monitor and record rainfall at a minimum of four (4) locations in the CSS.
- Report the number, volume and average duration of overflows for each active CSO outfall. The information shall be prepared using the latest model of the CSS, based on the measured storm event data and the operation of the inflatable dams for the previous calendar year.
- Monitor and record the condition of the bar racks at the Main and O Street Pumping Stations storm, CSO pumps to assess their ability to trap floatables.

10.2 SCADA SYSTEM – INFLATABLE DAM MONITORING

In accordance with the Three Party Consent Decree, the inflatable dams were placed in operation by March 29, 2004. The SCADA system monitors the occurrence and approximate duration of overflow at the inflatable dam sites. The SCADA system monitored the occurrence and approximate duration of overflows at these locations after the dams were placed in operation. This information is summarized in DC Water's quarterly operations report for the combined sewer system to EPA. The data is summarized in Appendix 10-1.

10.3 CONDITION OF BAR RACKS AT MAIN AND O STREET PUMPING STATIONS

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations in order to characterize the quantity and nature of the floatable discharged. Condition surveys conducted for the reporting period are presented in Appendix 10-2.

10.4 ANACOSTIA RIVER FLOATING DEBRIS REMOVAL PROGRAM

A description of this program and the quantity of materials removed is summarized in Section 7 of this report.

10.5 NORTHEAST BOUNDARY SWIRL FACILITY

Monthly monitoring data (flow, screenings removal and disinfection) is included in Appendix 10-3.

10.6 BMP DEMONSTRATION FLOATABLES REMOVAL

The BMP floatables demonstration project monitors the quantity of floatable material captured by the netting system at CSO 018 and the bar racks at CSO 040 and CSO 041. Monthly monitoring data is included in Section 7 of this report.

10.7 RAINFALL GAGES

DC Water maintains rainfall gages at four locations within the CSS. This monitoring is performed at the Brentwood Reservoir, the Bryant Street Pumping Station, the Main Pumping Station and the Rock Creek Pumping Station. Data from these gages are recorded daily and is reported in the DSS monthly operations reports. Monthly totals are presented in Table 10-1.

Table 10-1
Monthly Rain Gage Totals – 2012

Date	Monthly Rain Totals in inches			
	Brentwood Reservoir	Bryant St Pumping Station	Main Pumping Station	Rock Creek Pumping Station
Jan	1.44	1.74	1.88	1.95
Feb	0.91	2.15	2.23	2.21
Mar	0.84	0.99	1.02	1.31
Apr	1.71	2.01	1.79	2.06
May	2.27	2.32	2.31	2.73
Jun	0.62	1.01	2.27	2.84
Jul	3	6.1	2.43	4.56
Aug	1.52	2.99	2.15	2.21
Sep	0.78	5.18	3.04	2.73
Oct	5.99	7.29	5.78	6.4
Nov	0.48	0.75	0.61	0.75
Dec	2.08	3.11	2.58	3.47
Total	**21.64**	**35.64**	**28.09**	**33.22**

10.8 CSO OVERFLOW MODEL PREDICTIONS

A computer model of the CSS was developed and calibrated as part of the preparation of the LTCP. The model is the Danish Hydraulic Institute's MIKE URBAN Model. The model is updated to reflect changes in the sewer system. In accordance with the permit the model is run quarterly to

make predictions of actual overflows to the receiving water in the prior calendar quarter. Quarterly model results for 2012 are included in Appendix 10-4.

Based on the model results, the total overflow volume for 2012 is summarized in Table 10-2:

Table 10-2
Predicted CSO Overflow Volume for 2012

	Predicted CSO Overflow Volume in 2012 (mg)				
	Quarter 1	*Quarter 2*	*Quarter 3*	*Quarter 4*	*Total*
Anacostia River CSOs	44.70	97.25	438.53	520.87	1101.35
Potomac River CSOs	56.67	74.77	240.76	229.08	601.28
Rock Creek CSOs	21.70	23.40	67.49	126.49	239.08
Total	**123.06**	**195.42**	**746.79**	**876.45**	**1,941.72**

APPENDIX 10-1

SCADA System – Inflatable Dam Monitoring

Inflatable Dams & SCADA Sites - Wet Weather Operations
January 2012

Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
14 (E & W)	*None*	*N/A*
15	*None*	*N/A*
15A	*1/24*	*57 min*
16 (E & W)	*1/13*	*1 min*
	1/25	*1 min*
	1/26	*12 sec*
	1/27	*12 sec*
	1/31	*3 min*
24	*1/11*	*2 min*
	1/12	*4 min*
	1/17	*10 sec*
	1/27	*4 min*
34	*1/17*	*7 sec*
	1/23	*8 sec*
	1/27	*27 sec*
35	*1/11*	*9 sec*
	1/12	*1 min*
	1/27	*10 min*
52	*None*	*N/A*
Structures on Outfall Sewers	*Overflow Dates*	*Estimated Duration of Overflow*
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
Outfall Sewer Control Gates	*Operational Status*	*Position*
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

Inflatable Dams & SCADA Sites - Wet Weather Operations
February 2012

Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
14 (E & W)	*None*	*N/A*
15	*2/24* *2/29*	*30 sec* *24 min*
15A	*2/24* *2/29*	*2 min* *4 hrs, 10 min*
16 (E & W)	*2/1* *2/29*	*19 sec* *17 min*
24	*2/11* *2/22* *2/24* *2/29*	*9 sec* *10 sec* *2 min* *10 min*
34	*2/23* *2/29*	*7 sec* *7 sec*
35	*2/24* *2/29*	*3 min* *21 min*
52	*None*	*N/A*
Structures on Outfall Sewers	*Overflow Dates*	*Estimated Duration of Overflow*
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
Outfall Sewer Control Gates	*Operational Status*	*Position*
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

Inflatable Dams & SCADA Sites - Wet Weather Operations
March 2012

Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
14 (E & W)	*None*	*N/A*
15	*3/1* *3/3*	*4 min* *1 min*
15A	*3/1* *3/3*	*13 min* *2 min*
16 (E & W)	*None*	*N/A*
24	*3/1* *3/2* *3/3*	*2 min* *2 min* *2 min*
34	*None*	
35	*3/1* *3/3*	*1 min* *4 min*
52	*None*	*N/A*
Structures on Outfall Sewers	*Overflow Dates*	*Estimated Duration of Overflow*
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
Outfall Sewer Control Gates	*Operational Status*	*Position*
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

Inflatable Dams & SCADA Sites - Wet Weather Operations
April 2012

Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
14 (E & W)	*None*	*N/A*
15	*4/22* *4/23*	*6 mins* *3 mins*
15A	*4/22* *4/23*	*42 mins* *142 mins*
16 (E & W)	*4/9* *4/12* *4/21* *4/22* *4/23* *4/24* *4/27* *4/28*	*28 secs* *82 secs* *4 mins* *14 mins* *54 mins* *24 secs* *24 secs* *7 mins*
24	*None*	*N/A*
34	*None*	*N/A*
35	*4/22*	*23 secs*
52	*None*	*N/A*
Structures on Outfall Sewers	*Overflow Dates*	*Estimated Duration of Overflow*
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
Outfall Sewer Control Gates	*Operational Status*	*Position*
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

Inflatable Dams & SCADA Sites - Wet Weather Operations
May 2012

Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
14 (E & W)	*None*	*N/A*
15	*5/15* *5/29*	*53 min* *35 sec*
15A	*5/10* *5/15* *5/23* *5/29* *5/30*	*2 min* *118 min* *2 min* *26 min* *2 min*
16 (E & W)	*5/9* *5/15*	*2 min* *95 min*
24	*None*	*N/A*
34	*5/29*	*2 min*
35	*5/15* *5/23* *5/29*	*10 min* *37min* *20 min*
52	*None*	*N/A*
Structures on Outfall Sewers	*Overflow Dates*	*Estimated Duration of Overflow*
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
Outfall Sewer Control Gates	*Operational Status*	*Position*
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

Inflatable Dams & SCADA Sites - Wet Weather Operations
June 2012

Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
14 (E & W)	*None*	*N/A*
15	*6/1* *6/2* *6/29* *6/30*	*66 mins* *15 mins* *16 mins* *28 mins*
15A	*6/1* *6/2* *6/29* *6/30*	*73 mins* *78 mins* *9 mins* *75 mins*
16 (E & W)	*6/1* *6/29*	*109 mins* *18 mins*
24	*None*	*N/A*
34	*6/1* *6/29*	*136 mins* *19 mins*
35	*6/1* *6/29*	*81 mins* *22 mins*
52	*None*	*N/A*
Structures on Outfall Sewers	*Overflow Dates*	*Estimated Duration of Overflow*
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
Outfall Sewer Control Gates	*Operational Status*	*Position*
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

Inflatable Dams & SCADA Sites - Wet Weather Operations
July 2012

Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
14 (E & W)	*None*	*N/A*
15	*7/9*	*2 mins*
	7/10	*1 hr, 18 mins*
	7/19	*92 secs*
	7/20	*2 mins*
	7/31	*3 mins*
15A	*7/9*	*2 hrs, 11 mins*
	7/10	*35 mins*
	7/11	*2 mins*
	7/18	*2 mins*
	7/19	*18 mins*
	7/20	*1 hr, 54 mins*
	7/31	*31 mins*
16 (E & W)	*7/9*	*75 secs*
	7/10	*52 mins*
	7/18	*91 secs*
	7/19	*24 mins*
	7/20	*100 secs*
24	*7/11*	*98 secs*
	7/18	*15 mins*
	7/19	*12 mins*
	7/20	*6 mins*
	7/21	*2 mins*
	7/24	*11 mins*
	7/31	*3 mins*
34	*7/10*	*15 mins*
	7/18	*17 mins*
	7/19	*15 mins*
35	*7/9*	*19 secs*
	7/10	*12 mins*
	7/18	*32 mins*
	7/19	*31 mins*
	7/21	*4 mins*
	7/31	*15 mins*
52	*None*	*N/A*
Structures on Outfall Sewers	*Overflow Dates*	*Estimated Duration of Overflow*
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
Outfall Sewer Control Gates	*Operational Status*	*Position*
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

Inflatable Dams & SCADA Sites - Wet Weather Operations_ August 2012

Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
14 (E & W)	*None*	*N/A*
15	*8/10*	*3 mins*
15A	*8/10*	*5 mins*
16 (E & W)	*8/10*	*27 mins*
24	*8/10* *8/11* *8/19* *8/20* *8/22*	*4 mins* *3 mins* *2 mins* *2 mins* *14 mins*
34	*8/11*	*3 mins*
35	*8/10* *8/11* *8/19* *8/20*	*1 mins* *1 min* *15 mins* *2 mins*
52	*None*	*N/A*
Structures on Outfall Sewers	*Overflow Dates*	*Estimated Duration of Overflow*
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
Outfall Sewer Control Gates	*Operational Status*	*Position*
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

Inflatable Dams & SCADA Sites - Wet Weather Operations_ September 2012

Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
14 (E & W)	*None*	*N/A*
15	*9/1* *9/2* *9/8* *9/18*	*3 mins* *4 mins* *10 mins* *4 mins*
15A	*9/1* *9/2* *9/3* *9/8* *9/18*	*50 mins* *98 mins* *2 mins* *107 mins* *59 mins*
16 (E & W)	*9/8* *9/18*	*10 mins* *2 mins*
24	*9/2* *9/3* *9/8* *9/11* *9/18*	*27 mins* *2 mins* *4 mins* *11 mins* *21 mins*
34	*9/2* *9/8* *9/18*	*38 mins* *21 mins* *23 mins*
35	*9/1* *9/2* *9/8* *9/18*	*3 mins* *39 mins* *26 mins* *16 mins*
52	*None*	*N/A*
Structures on Outfall Sewers	*Overflow Dates*	*Estimated Duration of Overflow*
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
Outfall Sewer Control Gates	*Operational Status*	*Position*
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.

Inflatable Dams & SCADA Sites - Wet Weather Operations
October 2012

Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
14 (E & W)	*None*	*N/A*
15	*10/2* *10/19* *10/29*	*4 mins* *4 mins* *15 mins*
15A	*10/2* *10/19* *10/29*	*75 mins* *39 mins* *50 mins*
16 (E & W)	*10/29*	*64 mins*
24	*10/2* *10/19* *10/29*	*7 mins* *14 mins* *158 mins*
34	*10/19* *10/29*	*26 mins* *17 mins*
35	*10/2* *10/19* *10/29*	*23 mins* *31 mins* *9 hours, 19 mins*
52	*None*	*N/A*
Structures on Outfall Sewers	*Overflow Dates*	*Estimated Duration of Overflow*
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
Outfall Sewer Control Gates	*Operational Status*	*Position*
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

Inflatable Dams & SCADA Sites - Wet Weather Operations
November 2012

Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow*
14 (E & W)	*None*	*N/A*
15	*None*	*N/A*
15A	*11/13*	*2 mins*
16 (E & W)	*None*	*N/A*
24	*11/13*	*2 mins*
34	*None*	*N/A*
35	*11/13*	*37 secs*
Structures on Outfall Sewers	*Overflow Dates*	*Estimated Duration of Overflow*
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
Outfall Sewer Control Gates	*Operational Status*	*Position*
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

Inflatable Dams & SCADA Sites - Wet Weather Operations
December 2012

Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
14 (E & W)	*None*	*N/A*
15	*12/20* *12/26*	*15 mins* *77 mins*
15A	*12/20* *12/26*	*28 mins* *113 mins*
16 (E & W)	*12/3* *12/26*	*2 mins* *1 mins*
24	*12/21* *12/26* *12/27*	*2 mins* *30 mins* *2 mins*
34	*12/26*	*1 min*
35	*12/3* *12/13* *12/20* *12/21* *12/26*	*2 mins* *10 mins* *32 mins* *58 mins* *79 mins*
52	*None*	*N/A*
Structures on Outfall Sewers	*Overflow Dates*	*Estimated Duration of Overflow*
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
Outfall Sewer Control Gates	*Operational Status*	*Position*
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

APPENDIX 10-2

Condition Report for Bar Racks at Main & O Street Pumping Stations

Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Claude Price

Date Inspected: 1/16/12

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	1/16/12	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	1/16/12	X			

Condition Report Bar Racks at Main and O Street Storm Pumps
DC Water performs visual surveys of the bar racks at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Claude Price

Date Inspected: 2/15/12

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	2/15/12	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	2/15/12	X			

Condition Report Bar Racks at Main and O Street Storm Pumps
DC Water performs visual surveys of the bar racks at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Claude Price

Date Inspected: 3/26, 3/22/12

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	3/26/12	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	3/22/12	X			

Condition Report Bar Racks at Main and O Street Storm Pumps
DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Claude Price

Date Inspected: 4/20/12

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	4/20	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	4/20	X			

Condition Report Bar Racks at Main and O Street Storm Pumps
DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Claude Price

Date Inspected: 5/24/12

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	5/24	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	5/24	X			

Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Claude Price

Date Inspected: 6/12/12

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	6/12	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	6/12	X			

Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Claude Price

Date Inspected: 7/11/12

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	7/11	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	7/11	X			

Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Claude Price

Date Inspected: 8/22/12

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	8/22	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	8/22	X			

Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Claude Price

Date Inspected: 9/12/12

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	9/12	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	9/12	X			

Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Claude Price

Date Inspected: 10/19/12

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	10/19	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	10/19	X			

Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Claude Price

Date Inspected: 11/20/12

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	11/20	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	11/20	X			

Condition Report Bar Racks at Main and O Street Storm Pumps
DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Claude Price

Date Inspected: 12/25/12

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	12/25	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	12/25	X			

Appendix 10-3

Northeast Boundary Swirl Facility Monitoring Data

Northeast Boundary Swirl Facility – Wet Weather Operations-January 2012

Date	*Approx. Storm Duration[1] (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume[2] (mg)*	*Approx. Screenings Volume[3] # of bins (cu ft)*
1/11/2012	4.5	43.93	43.930	0.000	120.0
1/12/2012	7.5	10.02	10.020	0.000	80.0
1/17/2012	4.0	6.57	6.570	0.000	12.0
1/27/2012	4.7	31.45	31.450	0.000	240.0

Note:

1. **Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.**
2. **Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.**
3. **One Bin = 80 ft^3**

Northeast Boundary Swirl Facility – Wet Weather Operations-February 2012

Date	*Approx. Storm Duration1 (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume2 (mg)*	*Approx. Screenings Volume3 # of bins (cu ft)*
2/24/2012	5	105.	105.	0	104.0
2/29/2012	8	44.6	2.2	42.4	72.0
2/29/2012	4.5	5.3	5.3	0	36.0

Note:

1. **Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.**
2. **Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.**
3. **One Bin = 80 ft^3**

Northeast Boundary Swirl Facility – Wet Weather Operations-March 2012

Date	*Approx. Storm Duration[1] (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume[2] (mg)*	*Approx. Screenings Volume[3] # of bins (cu ft)*
3/1/2012	6.5	8.8	8.8	0.0	60.0
3/2/2012	7	2.1	2.1	0.0	48.0
3/3/2012	6	10.4	10.4	0.0	48.0

Note:

1. **Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.**
2. **Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.**
3. **One Bin = 80 ft^3**

Northeast Boundary Swirl Facility – Wet Weather Operations-April 2012

Date	*Approx. Storm Duration[1] (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume[2] (mg)*	*Approx. Screenings Volume[3] # of bins (cu ft)*
4/21/2012	3.5	93.2	93.2	0.0	48.0
4/22/2012	10	30.2	3.4	26.8	60.0
4/23/2012	4	2.1	2.1	0.0	12.0

Note:

1. **Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.**
2. **Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.**
3. **One Bin = 80 ft^3**

Northeast Boundary Swirl Facility – Wet Weather Operations-May 2012

Date	*Approx. Storm Duration[1] (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume[2] (mg)*	*Approx. Screenings Volume[3] # of bins (cu ft)*
5/1/2012	2.25	2.0	2.0	0.0	24.0
5/9/2012	4.5	2.1	2.1	0.0	48.0
5/9/2012	4	4.8	4.8	0.0	48.0
5/10/2012	4	0.8	0.8	0.0	24.0
5/15/2012	7	16.8	1.9	14.9	96.0
5/23/2012	4	5.1	5.1	0.0	48.0
5/29/2012	2	9.7	9.7	0.0	48.0
5/30/2012	2	1.0	1.0	0.0	24.0

Note:

1. **Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.**
2. **Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.**
3. **One Bin = 80 ft^3**

Northeast Boundary Swirl Facility – Wet Weather Operations-June 2012

Date	*Approx. Storm Duration[1] (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume[2] (mg)*	*Approx. Screenings Volume[3] # of bins (cu ft)*
6/1/2012	8	18.35	18.35	0.00	96
6/2/2012	4	2.52	2.52	0.00	18
6/30/2012	2	7.96	7.96	0.00	48

Note:

1. **Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.**
2. **Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.**
3. **One Bin = 80 ft^3**

Northeast Boundary Swirl Facility – Wet Weather Operations-July 2012

Date	*Approx. Storm Duration[1] (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume[2] (mg)*	*Approx. Screenings Volume[3] # of bins (cu ft)*
7/9/2012	5	6.45	6.450	0.000	220
7/10/2012	4	13.88	13.880	0.000	40
7/11/2012	4	1.92	1.920	0.000	20
7/18/2012	7	22.86	22.860	0.000	100
7/19/2012	1.5	11.63	11.630	0.000	40
7/20/2012	6.5	6.09	1.477	4.613	40
7/21/2012	4	5.76	5.760	0.000	40
7/31/2012	5	23.23	23.230	0.000	91.2

Note:

1. **Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.**
2. **Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.**
3. **One Bin = 80 ft^3**

Northeast Boundary Swirl Facility – Wet Weather Operations-August 2012

Date	*Approx. Storm Duration[1] (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume[2] (mg)*	*Approx. Screenings Volume[3] # of bins (cu ft)*
8/10/2012	6.25	12.46	12.46	0.00	180.0
8/11/2012	5.5	14.02	14.02	0.00	60.0
8/19/2012	2.25	6.81	6.81	0.00	60.0
8/20/2012	4	2.32	2.32	0.00	60.0
8/22/2012	4	2.12	2.12	0.00	60.0
8/26/2012	4	2.88	2.88	0.00	60.0

Note:

1. **Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.**
2. **Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.**
3. **One Bin = 80 ft^3**

Northeast Boundary Swirl Facility – Wet Weather Operations-September 2012

Date	*Approx. Storm Duration1 (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume2 (mg)*	*Approx. Screenings Volume3 # of bins (cu ft)*
9/1/2012	4	4.0	4.0	0.0	96.0
9/2/2012	4	7.2	7.2	0.0	24.0
9/8/2012	6.5	5.3	5.3	0.0	40.0
9/18/2012	4	2.2	2.2	0.0	40.0
9/18/2012	4.5	6.0	6.0	0.0	160.0
9/28/2012	6.5	18.2	18.2	0.0	48.0

Note:

1. **Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.**
2. **Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.**
3. **One Bin = 80 ft^3**

Northeast Boundary Swirl Facility – Wet Weather Operations-October 2012

Date	*Approx. Storm Duration1 (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume2 (mg)*	*Approx. Screenings Volume3 # of bins (cu ft)*
10/2/2012	4.5	18.4	3.9	14.5	180
10/19/2012	6	12.0	12.0	0	240
10/29/2012	5	41.4	5.4	36.0	220
10/29/2012	4	20.7	2.6	18.1	20
10/29/2012	8	60.1	5.0	55.0	240
10/30/2012	8	38.2	7.2	31.0	240
10/30/2012	6.5	6.3	4.8	1.6	240

Note:

1. **Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.**
2. **Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.**
3. **One Bin = 80 ft^3**

Northeast Boundary Swirl Facility – Wet Weather Operations-November 2012

Date	*Approx. Storm Duration1 (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume2 (mg)*	*Approx. Screenings Volume3 # of bins (cu ft)*
11/13/2012	8.5	5.10	5.10	0.000	80.0
11/13/2012	4	0.39	0.39	0.000	0.0

Note:

1. **Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.**
2. **Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.**
3. **One Bin = 80 ft^3**

Northeast Boundary Swirl Facility – Wet Weather Operations-December 2012

Date	*Approx. Storm Duration1 (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume2 (mg)*	*Approx. Screenings Volume3 # of bins (cu ft)*
12/9/2012	4	21.4	21.4	0.0	24.0
12/21/2012	9.5	41.8	8.7	33.1	104.0
12/26/2012	3.5	21.5	2.9	18.6	30.0
12/26/2012	8	14.6	14.6	0.0	24.0
12/27/2012	4	1.9	1.9	0.0	4.0

Note:

1. **Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.**
2. **Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.**
3. **One Bin = 80 ft^3**

Appendix 10-4

CSO Overflow Predictions

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: January, February, & March 2012
SCENARIO: Q1Y2012, 4-10-2012

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
Anacostia CSOs							
005	Chicago St and Railroad Station SE	8	1.16	25.00	3.13	7.75	1.00
006	Good Hope Road, West of Nichols Ave.,SE	separated					
007	13th Street and Ridge Place,SE	4	0.35	2.75	0.69	1.75	0.25
009	2nd Street, 300 feet North of N Place, SE	5	0.36	5.50	1.10	2.75	0.50
010	O Street SewagePumping Station, SE (pumped Overflow)	4	8.33	2.00	0.50	1.25	0.25
011	South of Main Sewage Pumping Station, SE (pumped overflow)	1	0.83	0.25	0.25	0.25	0.25
011a	South of Main SewagePumping Station, SE (gravity overflow)	0	0.00	0.00	0.00	0.00	0.00
012	North of Main SewagePumping Station, SE (Tiber Creek)	0	0.00	0.00	0.00	0.00	0.00
013	4th and N Streets, SE	3	0.06	3.00	1.00	2.00	0.25
014	6th and M Streets, SE	5	0.71	5.00	1.00	3.25	0.25
015	9th and M Streets, SE	5	0.11	3.25	0.65	2.00	0.25
016	12th and M Streets, SE	2	0.50	2.50	1.25	2.00	0.50
017	14th and M Streets, SE	5	2.07	15.00	3.00	6.00	1.00
018	Barney Circle andPennsylvania Ave, SE	4	0.73	4.25	1.06	2.25	0.50
019	Northeast Boundary - Swirl Effluent	4	29.48	24.25	6.06	7.50	3.75
019	Northeast Bound. - Swirl Bypass	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL		**44.70**				
Potomac CSOs							
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
020	23rd Street, North ofConstitution Ave, NW (Easby Point)	2	0.39	2.00	1.00	1.75	0.25
021	Northeast ofRoosevelt Bridge, NW	4	14.78	5.00	1.25	2.25	0.50
022	27th and K Streets, NW	7	0.18	9.00	1.29	3.75	0.25
024	30th and K Streets, NW	5	0.76	4.25	0.85	2.00	0.25
025	31st & K St NW	1	0.02	0.25	0.25	0.25	0.25
026	Wisconsin Avenue andK St., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West ofStreet, NW	31	34.85	349.00	11.26	89.50	0.50
028	36th and M Streets, NW	28	3.41	91.50	3.27	31.25	0.25
029	Canal Road 1000 feet east of Rock Creek,NW	4	2.28	8.00	2.00	5.25	0.25
	SUBTOTAL		**56.67**				
Rock Creek							
031	Pennsylvania Avenue, East Rock Creek, NW	separated					
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00
033	N Street extendedwest of 25th Street,NW	0	0.00	0.00	0.00	0.00	0.00
034	23rd and O Streets, SW	0	0.00	0.00	0.00	0.00	0.00
035	22nd Street south of Q Street, NW	0	0.00	0.00	0.00	0.00	0.00
036	22nd Street South of Q Street, NW	13	0.220	29.75	2.29	14.50	0.25
037	Northwest of Belmontand Rock Creek and Potomac Parkway	separated					
038	North of Belmont Road,east of Kalorama Circle, NW	0	0.00	0.00	0.00	0.00	0.00
039	Connecticut Avenue east of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
040	Biltmore Street extended east of RockCreek, NW	0	0.00	0.00	0.00	0.00	0.00
041	Ontario extended and Rock Creek Parkway	0	0.00	0.00	0.00	0.00	0.00

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: January, February, & March 2012
SCENARIO: Q1Y2012, 4-10-2012

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
042	Harvard Street and RockCreek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
043	Adams Mill Road South of Irving Street, NW	1	0.06	0.25	0.25	0.25	0.25
044	Kenyon Street and Adams Mill Road, NW	0	0.00	0.00	0.00	0.00	0.00
045	Adams Mill Road and Lamont Street, NW	1	0.00	0.25	0.25	0.25	0.25
046	Park Road south of Piney Branch Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
047	Ingleside Terrace extended and Piney Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
048	Mt. Pleasant Street extended and Piney Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
049	Piney Branch and LamontStreet, NW	21	18.362	61.00	2.90	25.00	0.25
050	28th Street west of 16th Street, NW	0	0.00	0.00	0.00	0.00	0.00
051	Olive Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
052	O Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
053	O Street west of Rock Creek Parkway, NW	separated					
054	West Side of Rock Creek300 ft. south of Mass. Ave, NW	0	0.00	0.00	0.00	0.00	0.00
056	Normanstone Drive extended west of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
057	28th Street extended west of Rock Creek, NW	6	3.05	37.25	6.21	29.00	0.25
058	Connecticut Avenue and Rock Creek Parkway, NW	separated					
060	P St and 26th St, NW	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL		**21.70**				
	TOTAL		**123.06**				

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Prepared by: Greeley and Hansen LLC and Limno-Tech, Inc.

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: April, May & June 2012
SCENARIO: Q2Y2012, 7-12-2012

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
Anacostia CSOs							
005	Chicago St and Railroad Station SE	10	1.49	26.25	2.63	11.00	0.25
006	Good Hope Road, West of Nichols Ave.,SE	separated					
007	13th Street and Ridge Place,SE	3	0.62	2.00	0.67	0.75	0.50
009	2nd Street, 300 feet North of N Place, SE	4	0.43	6.25	1.56	4.00	0.25
010	O Street SewagePumping Station, SE (pumped Overflow)	4	19.58	5.00	1.25	3.75	0.25
011	South of Main Sewage Pumping Station, SE (pumped overflow)	0	0.00	0.00	0.00	0.00	0.00
011a	South of Main SewagePumping Station, SE (gravity overflow)	0	0.00	0.00	0.00	0.00	0.00
012	North of Main SewagePumping Station, SE (Tiber Creek)	0	0.00	0.00	0.00	0.00	0.00
013	4th and N Streets, SE	6	1.26	13.25	2.21	9.00	0.25
014	6th and M Streets, SE	4	1.42	11.00	2.75	7.00	0.25
015	9th and M Streets, SE	3	0.28	2.00	0.67	1.00	0.50
016	12th and M Streets, SE	2	0.73	2.25	1.13	1.25	1.00
017	14th and M Streets, SE	6	3.34	19.00	3.17	9.75	0.50
018	Barney Circle andPennsylvania Ave, SE	3	1.45	9.25	3.08	5.50	1.25
019	Northeast Boundary - Swirl Effluent	4	65.73	23.75	5.94	10.75	2.75
019	Northeast Bound. - Swirl Bypass	2	0.92	0.75	0.38	0.50	0.25
	SUBTOTAL		**97.25**				
Potomac CSOs							
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
020	23rd Street, North ofConstitution Ave, NW (Easby Point)	2	0.10	3.00	1.50	1.75	1.25
021	Northeast ofRoosevelt Bridge, NW	4	25.72	12.50	3.13	8.25	0.75
022	27th and K Streets, NW	7	0.30	8.75	1.25	3.25	0.25
024	30th and K Streets, NW	4	2.33	13.25	3.31	8.00	1.50
025	31st & K St NW	2	0.05	0.75	0.38	0.50	0.25
026	Wisconsin Avenue andK St., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West ofStreet, NW	37	39.61	385.50	10.42	89.50	0.50
028	36th and M Streets, NW	34	3.98	109.00	3.21	31.25	0.25
029	Canal Road 1000 feet east of Rock Creek,NW	6	2.67	9.25	1.54	5.25	0.25
	SUBTOTAL		**74.77**				
Rock Creek							
031	Pennsylvania Avenue, East Rock Creek, NW	separated					
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00
033	N Street extendedwest of 25th Street,NW	0	0.00	0.00	0.00	0.00	0.00
034	23rd and O Streets, SW	0	0.00	0.00	0.00	0.00	0.00
035	22nd Street south of Q Street, NW	0	0.00	0.00	0.00	0.00	0.00
036	22nd Street South of Q Street, NW	15	0.255	32.75	2.18	14.50	0.25
037	Northwest of Belmontand Rock Creek and Potomac Parkway	separated					
038	North of Belmont Road,east of Kalorama Circle, NW	0	0.00	0.00	0.00	0.00	0.00
039	Connecticut Avenue east of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
040	Biltmore Street extended east of RockCreek, NW	0	0.00	0.00	0.00	0.00	0.00
041	Ontario extended and Rock Creek Parkway	0	0.00	0.00	0.00	0.00	0.00

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: April, May & June 2012
SCENARIO: Q2Y2012, 7-12-2012

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
042	Harvard Street and RockCreek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
043	Adams Mill Road South of Irving Street, NW	2	0.10	0.50	0.25	0.25	0.25
044	Kenyon Street and Adams Mill Road, NW	0	0.00	0.00	0.00	0.00	0.00
045	Adams Mill Road and Lamont Street, NW	2	0.00	0.50	0.25	0.25	0.25
046	Park Road south of Piney Branch Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
047	Ingleside Terrace extended and Piney Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
048	Mt. Pleasant Street extended and Piney Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
049	Piney Branch and LamontStreet, NW	23	19.842	69.25	3.01	25.00	0.50
050	28th Street west of 16th Street, NW	0	0.00	0.00	0.00	0.00	0.00
051	Olive Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
052	O Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
053	O Street west of Rock Creek Parkway, NW	separated					
054	West Side of Rock Creek300 ft. south of Mass. Ave, NW	0	0.00	0.00	0.00	0.00	0.00
056	Normanstone Drive extended west of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
057	28th Street extended west of Rock Creek, NW	7	3.20	38.25	5.46	29.00	0.25
058	Connecticut Avenue and Rock Creek Parkway, NW	separated					
060	P St and 26th St, NW	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL		**23.40**				
	TOTAL		**195.42**				

Prepared by: Greeley and Hansen LLC and Limno-Tech, Inc.

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: July, August & September 2012
SCENARIO: Q3Y2012, October 15, 2012

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
Anacostia CSOs							
005	Chicago St and Railroad Station SE	17	3.16	31.25	1.84	4.75	0.25
006	Good Hope Road, West of Nichols Ave.,SE	separated					
007	13th Street and Ridge Place,SE	9	6.10	10.00	1.11	3.50	0.25
009	2nd Street, 300 feet North of N Place, SE	11	2.16	12.50	1.14	2.25	0.25
010	O Street SewagePumping Station, SE (pumped Overflow)	7	34.24	8.50	1.21	3.75	0.25
011	South of Main Sewage Pumping Station, SE (pumped overflow)	0	0.00	0.00	0.00	0.00	0.00
011a	South of Main SewagePumping Station, SE (gravity overflow)	0	0.00	0.00	0.00	0.00	0.00
012	North of Main SewagePumping Station, SE (Tiber Creek)	4	27.96	8.00	2.00	2.75	1.25
013	4th and N Streets, SE	13	3.07	23.75	1.83	4.75	0.25
014	6th and M Streets, SE	12	4.97	18.25	1.52	4.00	0.25
015	9th and M Streets, SE	11	1.16	7.75	0.70	1.75	0.25
016	12th and M Streets, SE	6	3.21	7.25	1.21	2.00	0.75
017	14th and M Streets, SE	15	9.42	27.75	1.85	4.50	0.50
018	Barney Circle andPennsylvania Ave, SE	9	7.68	15.75	1.75	3.50	0.25
019	Northeast Boundary - Swirl Effluent	8	158.14	45.50	5.69	9.25	2.25
019	Northeast Bound. - Swirl Bypass	7	177.27	6.75	0.96	1.75	0.25
	SUBTOTAL		**438.53**				
Potomac CSOs							
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
020	23rd Street, North ofConstitution Ave, NW (Easby Point)	7	20.84	12.25	1.75	3.50	1.00
021	Northeast ofRoosevelt Bridge, NW	7	110.32	13.25	1.89	2.75	1.00
022	27th and K Streets, NW	15	31.86	19.75	1.32	3.25	0.25
024	30th and K Streets, NW	12	11.77	18.75	1.56	5.50	0.25
025	31st & K St NW	8	0.52	5.00	0.63	1.25	0.25
026	Wisconsin Avenue andK St., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West ofStreet, NW	44	51.37	429.75	9.77	89.50	0.50
028	36th and M Streets, NW	43	5.87	123.50	2.87	31.25	0.25
029	Canal Road 1000 feet east of Rock Creek,NW	14	8.20	18.25	1.30	5.25	0.25
	SUBTOTAL		**240.76**				
Rock Creek							
031	Pennsylvania Avenue, East Rock Creek, NW	separated					
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00
033	N Street extendedwest of 25th Street,NW	1	0.34	1.00	1.00	1.00	1.00
034	23rd and O Streets, SW	0	0.00	0.00	0.00	0.00	0.00
035	22nd Street south of Q Street, NW	1	2.11	0.50	0.50	0.50	0.50
036	22nd Street South of Q Street, NW	22	0.798	42.25	1.92	14.50	0.25
037	Northwest of Belmontand Rock Creek and Potomac Parkway	separated					
038	North of Belmont Road,east of Kalorama Circle, NW	0	0.00	0.00	0.00	0.00	0.00
039	Connecticut Avenue east of Rock Creek, NW	1	0.03	0.25	0.25	0.25	0.25
040	Biltmore Street extended east of RockCreek, NW	1	0.20	0.75	0.75	0.75	0.75
041	Ontario extended and Rock Creek Parkway	0	0.00	0.00	0.00	0.00	0.00
042	Harvard Street and RockCreek Parkway, NW	1	0.21	0.75	0.75	0.75	0.75

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: July, August & September 2012
SCENARIO: Q3Y2012, October 15, 2012

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
043	Adams Mill Road South of Irving Street, NW	5	1.61	2.00	0.40	0.75	0.25
044	Kenyon Street and Adams Mill Road, NW	1	0.04	0.75	0.75	0.75	0.75
045	Adams Mill Road and Lamont Street, NW	6	0.16	2.75	0.46	0.75	0.25
046	Park Road south of Piney Branch Parkway, NW	3	0.04	1.00	0.33	0.50	0.25
047	Ingleside Terrace extended and Piney Branch Parkway	2	0.12	1.00	0.50	0.75	0.25
048	Mt. Pleasant Street extended and Piney Branch Parkway	3	0.33	1.75	0.58	0.75	0.50
049	Piney Branch and LamontStreet, NW	31	55.461	84.25	2.72	25.00	0.25
050	28th Street west of 16th Street, NW	0	0.00	0.00	0.00	0.00	0.00
051	Olive Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
052	O Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
053	O Street west of Rock Creek Parkway, NW	separated					
054	West Side of Rock Creek300 ft. south of Mass. Ave, NW	0	0.00	0.00	0.00	0.00	0.00
056	Normanstone Drive extended west of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
057	28th Street extended west of Rock Creek, NW	13	6.02	49.50	3.81	29.00	0.25
058	Connecticut Avenue and Rock Creek Parkway, NW	separated					
060	P St and 26th St, NW	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL		**67.49**				
	TOTAL		**746.79**				

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Prepared by: Greeley and Hansen LLC and Limno-Tech, Inc.

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: October, November, & December 2012
SCENARIO: Q4Y2012, 1-15-2013

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
Anacostia CSOs							
005	Chicago St and Railroad Station SE	6	4.11	44.00	7.33	26.25	2.00
006	Good Hope Road, West of Nichols Ave.,SE	separated					
007	13th Street and Ridge Place,SE	4	8.09	25.00	6.25	21.50	0.25
009	2nd Street, 300 feet North of N Place, SE	3	2.54	23.25	7.75	19.00	0.75
010	O Street SewagePumping Station, SE (pumped Overflow)	4	113.96	25.25	6.31	20.25	0.25
011	South of Main Sewage Pumping Station, SE (pumped overflow)	0	0.00	0.00	0.00	0.00	0.00
011a	South of Main SewagePumping Station, SE (gravity overflow)	0	0.00	0.00	0.00	0.00	0.00
012	North of Main SewagePumping Station, SE (Tiber Creek)	2	38.37	14.50	7.25	14.00	0.50
013	4th and N Streets, SE	6	5.16	28.00	4.67	20.50	0.25
014	6th and M Streets, SE	4	7.92	30.75	7.69	23.25	0.25
015	9th and M Streets, SE	5	0.23	15.75	3.15	12.25	0.25
016	12th and M Streets, SE	3	3.52	18.00	6.00	15.50	0.25
017	14th and M Streets, SE	6	12.83	43.50	7.25	27.25	0.75
018	Barney Circle andPennsylvania Ave, SE	5	7.40	29.75	5.95	22.50	0.25
019	Northeast Boundary - Swirl Effluent	6	282.48	85.50	14.25	32.50	4.50
019	Northeast Bound. - Swirl Bypass	3	34.26	5.25	1.75	4.75	0.25
	SUBTOTAL		**520.87**				
Potomac CSOs							
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
020	23rd Street, North ofConstitution Ave, NW (Easby Point)	4	19.17	22.25	5.56	17.75	0.50
021	Northeast ofRoosevelt Bridge, NW	5	149.96	26.00	5.20	17.25	0.50
022	27th and K Streets, NW	6	2.44	30.00	5.00	16.50	0.25
024	30th and K Streets, NW	5	19.91	30.50	6.10	22.50	0.25
025	31st & K St NW	3	0.18	6.00	2.00	5.25	0.25
026	Wisconsin Avenue andK St., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West ofStreet, NW	9	11.84	63.75	7.08	28.00	0.25
028	36th and M Streets, NW	47	9.68	151.75	3.23	31.25	0.25
029	Canal Road 1000 feet east of Rock Creek,NW	16	15.89	29.50	1.84	9.50	0.25
	SUBTOTAL		**229.08**				
Rock Creek							
031	Pennsylvania Avenue, East Rock Creek, NW	separated					
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00
033	N Street extendedwest of 25th Street,NW	1	0.61	1.00	1.00	1.00	1.00
034	23rd and O Streets, SW	1	0.00	0.25	0.25	0.25	0.25
035	22nd Street south of Q Street, NW	1	4.21	0.50	0.50	0.50	0.50
036	22nd Street South of Q Street, NW	24	1.549	61.50	2.56	14.75	0.25
037	Northwest of Belmontand Rock Creek and Potomac Parkway	separated					
038	North of Belmont Road,east of Kalorama Circle, NW	0	0.00	0.00	0.00	0.00	0.00
039	Connecticut Avenue east of Rock Creek, NW	1	0.05	0.25	0.25	0.25	0.25
040	Biltmore Street extended east of RockCreek, NW	1	0.40	0.75	0.75	0.75	0.75
041	Ontario extended and Rock Creek Parkway	0	0.00	0.00	0.00	0.00	0.00
042	Harvard Street and RockCreek Parkway, NW	1	0.43	0.75	0.75	0.75	0.75

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: October, November, & December 2012
SCENARIO: Q4Y2012, 1-15-2013

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
043	Adams Mill Road South of Irving Street, NW	5	3.12	2.25	0.45	1.00	0.25
044	Kenyon Street and Adams Mill Road, NW	1	0.10	0.75	0.75	0.75	0.75
045	Adams Mill Road and Lamont Street, NW	6	0.33	2.75	0.46	0.75	0.25
046	Park Road south of Piney Branch Parkway, NW	3	0.09	1.00	0.33	0.50	0.25
047	Ingleside Terrace extended and Piney Branch Parkway	2	0.29	1.00	0.50	0.75	0.25
048	Mt. Pleasant Street extended and Piney Branch Parkway	3	0.70	1.75	0.58	0.75	0.50
049	Piney Branch and LamontStreet, NW	33	102.332	108.00	3.27	25.00	0.25
050	28th Street west of 16th Street, NW	0	0.00	0.00	0.00	0.00	0.00
051	Olive Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
052	O Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
053	O Street west of Rock Creek Parkway, NW	separated					
054	West Side of Rock Creek300 ft. south of Mass. Ave, NW	0	0.00	0.00	0.00	0.00	0.00
056	Normanstone Drive extended west of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
057	28th Street extended west of Rock Creek, NW	15	12.29	71.75	4.78	29.00	0.25
058	Connecticut Avenue and Rock Creek Parkway, NW	separated					
060	P St and 26th St, NW	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL		**126.49**				
	TOTAL		**876.45**				

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Prepared by: Greeley and Hansen LLC and Limno-Tech, Inc.

Year 2012
Nine Minimum Controls Annual Report
For
Combined Sewer System

DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
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