CITY OF QUINCY

CMOM PROGRAM

APRIL 2022

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CITY OF QUINCY
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EXECUTIVE SUMMARY

The City of Quincy (City) is continuing a decade-long effort to advance its Sewer Department initiatives and Clean Water Act compliance. These efforts include the programmatic evaluation of its sewer system and significant annual rehabilitation, policy adjustments, and managerial controls. The City entered into a Consent Decree with the United States Environmental Protection Agency (EPA) in the summer of 2021 to fulfill the City's obligations to comply with the Clean Water Act (CWA). The Consent Decree requires the City to provide specific reporting documents on a defined schedule to the United States Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection (DEP) through December 31, 2034.

The information included in this Capacity, Management, Operations and Maintenance (CMOM) Program relies upon the City's CMOM Checklist and CMOM Corrective Action Plan. Areas of improvement have been identified in the City's Corrective Action Plan and are referenced within this report for future documentation for approval by the EPA and DEP.

The CMOM Program is designed to outline the City's existing infrastructure, operation, and maintenance practices utilized to maintain the sanitary sewer system and avoid system failures and sanitary sewer overflow.

1. GENERAL INFORMATION

Chapter 1 of the City's CMOM Program Document describes the City's collection system assets and an overview of the asset management strategy.

1.1 Collection System Assets

The City of Quincy manages its sewer system operation, maintenance, and rehabilitation planning using Geographic Information Systems (GIS). This GIS system is used to document the geospatial location of the sewer system as well as the attribute information associated with each asset. The database holds data specific to each asset such as size, material, installation date, and rehabilitation status. **Table 1** below is a query of the City's database that summarizes the City's sewer system by asset class and general quantity. The number of service connections is estimated based on the number of parcels located in the City.

See **Appendix A** for the City's sewer collection system inventory.

Table 1: Collection System Assets

Asset	Quantity
Sewer Pipe	1,113,260 LF
Service Connections	27,000
Manholes	5,700
City-Owned Pump Stations	6
Privately-Owned Pump Stations	2
MWRA-Owned Pump Station	5
Siphons	5

Table 2: Linear Feet of Gravity Sewer & Force Main

Asset	Linear Feet (LF)
Gravity Sewer	1,102,260
Force Main	11,000

The City owns and operates 6 wastewater pump stations. **Table 3** below is a summary of the city-owned pump stations:

Table 3: City-Owned Pump Stations (PS)

PS Name	PS Startup Year	PS Rehab. Year	Force Main Diameter	Force Main Material	Force Main Status
The Strand	1997	2021	6″	HDPE	Replaced in 2021
Fort Square	1983	2015	18″	CLDI	Original
Quincy Point	1987	2017	20″	CLDI	Original
Squantum Gardens	1980s	Original	4″	CLDI	Original
Carlisle Street	2004	Original	4″	CLDI	Original
Evelyn Place	2007	Original	4″	CLDI	Original

There are 2 privately-owned pump stations located within the City:

- Marina Bay PS
- Scannell/FedEx PS.

There are 5 Massachusetts Water Resource Authority (MWRA)-owned pump stations located within the City:

- Merrymount PS
- Hough's Neck PS
- Nut Island Headworks/PS
- Squantum PS
- Braintree-Weymouth PS.

There are 5 sewer siphons located within the City in the following areas:

- Granite Street MBTA
- Copeland Street
- Edgewater Drive (Salt Water Creek Crossing)
- Camden Street (Tidal Creek Crossing)
- Rockland Street.

1.2 Collection System Asset Management Overview

The City's Department of Public Works (DPW) is responsible for proper maintenance, operation, and rehabilitation of the sewer collection system. **Appendix B** highlights the organizational hierarchy of the DPW and up to date job descriptions. Key department roles in the City's asset management include the

DPW Director, City Engineering Staff, Sewer Superintendent, and GIS Administrator who collectively oversee the incorporation and authorization of all the DPW's GIS assets, including sewer assets. The DPW has one GIS Technician who assists the GIS Administrator in managing the functionality and data quality of the sewer collection system GIS database.

The City utilizes a variety of methods to perform asset management, including GIS, Microsoft Access, and Microsoft Excel, which are utilized to perform asset management and work order management. The City is currently integrating a proprietary asset management software, Cityworks.

The City's collection system is mapped geospatially in the City using GIS. Record drawings for the City's infrastructure were used as the basis in developing the City's GIS. Record drawing information includes the original installation drawings and additional records drawings indicating the rehabilitation completed since each asset's original installation. These record drawings are located at the DPW as paper records and digital scans. Approximately 99% of the GIS system has either an original record drawing or rehabilitation drawing associated with the assets.

Unique object and asset Ids are used in the GIS system to systematically identify manholes, sewer pipes, and pump stations. Sewer pipes are also identified by their upstream and downstream manholes which are used for tracking inspection, maintenance, and rehabilitation data.

As-builts and ArcGIS can be accessed by the Quincy DPW via tablets in the field or can be printed at the DPW office. Maps are updated by field crews or by the City's collection system consultants as field investigations are conducted.

2. COLLECTION SYSTEM MANAGEMENT

Chapter 2 of the City's CMOM Program Document outlines and describes the City's management structure, training, communication tools, customer service response, management information systems, sanitary sewer overflow notification program, and legal authority.

2.1 Organizational Structure

The City of Quincy's Water, Sewer, & Drain Division (WSD) is an integral arm of the Department of Public Works (DPW) and is responsible for all aspects of the City's wastewater collection system. There are 49 total staff that are responsible for the oversight of the sewer, water, and storm drain systems. Staff positions are shown in the DPW organization chart and up to date job descriptions in **Appendix B** along with the name of the employee currently holding the position. Existing vacancies are shown in the organizational chart, if applicable. The organizational chart is updated on an as needed basis. Job descriptions are kept up to date and include the responsibilities, licenses, and certifications required for each position.

Specific to the collection system, the DPW has staff responsible for construction (repairs, structures, castings, etc.), staff responsible for responding to house calls and backups, staff that operate the City's combination vactor/jet trucks. The DPW also has pump station operators that perform daily inspections, light maintenance, and manage the City's O&M contractor for the City's pump stations.

The City's O&M Contractor provides quarterly inspections at all City-owned pump stations and performs other as requested maintenance and inspection that cannot be completed using DPW Staff. Daily inspection logs are kept at each pump station, which are then digitized by office staff monthly. The DPW does not typically share staff with other City departments.

The DPW contracts an "emergency on-call excavation contractor" for excavation work greater than 8-feet deep or that cannot be attended to in a timely fashion by internal DPW resources.

The DPW contracts with sewer inspection and cleaning companies that perform CCTV pipe inspections, manhole inspections, Sanitary Sewer Evaluation Survey (SSES) inspections, on-call cleaning, pump station wet well cleaning, and miscellaneous pump station maintenance.

The DPW does not perform electrical maintenance and repairs in-house and therefore contracts all electrical related work.

*Per Corrective Action 1 (Checklist Reference III.A-2), The City will update job descriptions with each October/April compliance report and these job descriptions will be included the CMOM Program Document. See **Appendix B**.*

2.2 Training

Training is an important part of the City's sewer collection system operation. Proper training is provided to employees to understand health and safety expectations, ensure quality performance standards are maintained and staff skills are improved, and higher productivity is achieved. Staff receive training based

on their job title and role. Licenses and mandatory certifications are kept in the job descriptions for each position and TCHs (Training Contact Hours) are mandatory for certain certifications.

New and existing staff also receive safety training as needed based upon their roles. Example trainings that are provided include first aid, CPR, bloodborne pathogens, OSHA-10, confined space entry, asbestos cement handling, trench excavation, traffic control, competent person, house entry training, dementia training, rigging classes, chainsaws, LOTO, Sanitary Sewer Overflow, emergency response, and CDL, as needed. Staff receive training from NEWWA, NEWEA, Mass Water Works, Bay State Roads, Confined space, MWPCA, the Health Department, and MWRA. On the job training in corrective and preventative maintenance tasks is provided to each new employee until the employee demonstrates sufficient understanding of the safe and proper performance of the work.

Collection system licenses (NASSCO, NEIWPCC, etc.), trainings, and certifications are tracked via paper logs and Microsoft Excel. Training is provided to staff as required by the Sewer Foreman and the Sewer Foreman is responsible for maintaining training records.

Per Corrective Action 6 (Section IV.C-1) of the City's Corrective Action Plan, the City will create a formalized Safety Training Program with lists of defined safety training by job requirement. This Safety Training Program will be under the direction of the DPW Operations Manager and trainings will be tracked using a centralized database. ***Appendix C*** *has been placed into this CMOM Program Document as a place holder for the for the City's future documented Safety Training Program.*

2.3 Internal Communication

The DPW uses a top-down, bottom-up, and lateral exchange of information amongst staff. Bulletin board posters are maintained in the DPW office to share City-specific information. All DPW staff have the ability to obtain an email to facilitate ease of communication. Mobile phones are provided to employees as needed.

A communication chain of command is in place for subordinates to reach out to their managers regarding questions for workflows, standard operating procedures, and employment questions.

The DPW's engineering division and WSD division utilize tablets, web-based mapping, and paper reporting to manage and collect inspectional data on their collection system. This data is managed by the DPW's GIS administration team to facilitate quality assurance/control. The DPW GIS administration team is also responsible for developing inspection forms, digital reporting tools, and other internal communication tools and reporting.

The DPW has an open line of communication with other City Departments including, police, fire, department of health, and emergency management where internal coordination for resources or City-wide priorities are required.

2.4 Customer Service

The City's website is the primary source for information on the WSD Division's operations including a description of the collection system, a list of the services provided, sewer rates, and emergency and non-emergency contact information.

The WSD receives approximately 3 phone calls a day, which are logged by the DPW dispatch. Records of these customer calls or complaints are logged by DPW dispatch and include information such as caller name, location, date and time, and the nature of the complaint or request. This information can be used to identify common, reoccurring issues in the collection system. These general service requests/inquiries are recorded using the City's internally created computerized call logging system. The Sewer Dispatch takes calls for the WSD division and is monitored 24/7. A telephone answering service is utilized after 3PM.

The Sewer Foreman is responsible for evaluating the call and, if needed, will dispatch DPW staff, including a specialized "blockage" crew. Service calls are typically maintenance related issues that require the blockage crew to clean the sewer of grease, debris, roots, etc.

The Sewer Foreman will engage the DPW Engineers, as needed, to identify the appropriate responses to service requests. The Sewer Engineer is responsible for completing compliance related documents such as MassDEP SSO Notification forms and notification of the appropriate City departments and State regulators.

Per Corrective Action 2 (Checklist Reference III.D-6) of the City's Corrective Action Plan, the City is currently in the process of integrating Cityworks, an asset management software, to track, organize, and prioritize the response to customer service calls that and their associated work orders. Cityworks will also be used to schedule preventative maintenance and track emergencies in order to mitigate future issues. ***Appendix D*** *has been placed into this CMOM Program Document as a place holder for the City's future Cityworks Standard Operating Procedures regarding customer complaint work orders, emergency, maintenance, equipment inventories, and safety work order system.*

2.5 Management Information System

The City maintains a GIS database of the sanitary sewer infrastructure including sewer gravity mains, pressurized mains, pump stations, and manholes. Sewer issue calls are tracked via the City's internal database. Spreadsheets (MS Excel) are used to store information on annual SSOs. SCADA is used to monitor the City's pump stations.

Maintenance and Inspection Scheduling:
The City tracks maintenance activities using a combination of Microsoft Excel, Microsoft Access, and GIS. The City's Sewer Foreman keeps a list of preventative maintenance for sewer cleanings throughout the City. Collection system maintenance is also planned on an annual basis by reviewing historic work orders of the City's sewer system and performing SSES investigations. The City uses an outside consultant to assist with the planning and tracking of large-scale maintenance/inspection activities such as SSES evaluations, Infiltration and Inflow (I/I) investigations, or risk analysis. The City is integrating their maintenance and inspection scheduling into their new asset management software, Cityworks, that will store large-scale maintenance and planning activities (i.e., maintenance activities that are contracted to private inspection/maintenance companies).

The City Engineer establishes maintenance priorities by working with City staff and outside consultants/contractors to understand common defects. A combination of City Staff and the O&M Contractor maintain the City's mechanical and electrical pump station equipment. Maintenance is logged via pump station inspections that are digitized into PDF reports.

Emergency Scheduling:
Emergencies are tracked via the City's internal sewer call database. Response to an emergency is tracked by City Staff (typically the Sewer Foreman and the DPW Engineers). Historic emergency information is utilized to inform the City's preventative maintenance schedule in order to decrease the likelihood of a particular emergency reoccurring. See Section 3.5 of this CMOM Program Document for additional information on emergency preparedness.

Per Corrective Action 2 (Checklist Reference III.D-6) of the City's Corrective Action Plan, the City is currently in the process of integrating Cityworks, an asset management software, to track, organize, and prioritize the response to customer service calls that and their associated work orders. Cityworks will also be used to schedule preventative maintenance and track emergencies in order to mitigate future issues. ***Appendix D*** *has been placed into this CMOM Program Document as a place holder for the City's future Cityworks Standard Operating Procedures regarding customer complaint work orders, emergency, maintenance, equipment inventories, and safety work order system.*

2.6 Sanitary System Overflow (SSO) Notification Program

In the event of an unauthorized discharge, the City follows the DEP SSO form procedures for notifying the necessary contacts including the DEP, EPA, and Quincy Health Department. An email or telephone call is to be made within 24 hours of discovering the release and the written report is to be submitted within 5 days.

If a release has directly impacted nearby environmental resources such as waterbodies and wetland resources, the following parties are to be notified based on discharge scope:

- EPA's Water Compliance Section Contact
- Massachusetts Department of Environmental Protection
- City of Quincy Department of Health
- Quincy Conservation Commission (when a wetland is impacted)
- Quincy Harbormaster (when a waterway is impacted)
- Relevant Watershed Associations (when a waterway is impacted)
- Affected Drinking Water Suppliers (when a drinking water supply is impacted)
- Division of Marine Fisheries (when a beach or waterway is impacted)
- Massachusetts Department of Conservation and Recreation (when a beach, state park, or state road is impacted)
- Other affected contacts

See ***Appendix E*** *for the City's SSO emergency response plan. Note that this document is in the process of being updated to meet the new Massachusetts Department of Environmental Protection's (MassDEP) new requirements for SSO response and public notification due to MassDEP July 6, 2022.*

2.7 Legal Authority

The City has established and implemented regulations regarding the use of the wastewater collection system through the Sewer Use Ordinance (SUO), which allows for the enforcement or illegal connection or

other improper activities. As regulation and requirements change, the City will pass additional ordinances to address arising issues. The items addressed through the sewer ordinances (Chapter 13.08) include: Private Inflow, FOG and Grease Traps, Access to Sewers, Sump Pumps, Sewer Service Laterals, etc. The City is also responsible for accepting and adhering to the Massachusetts Water Resource Authority (MWRA) rules and regulations covering the discharge of sewer, substances, or wastes which are included in section 13.08.240. Ordinances are kept up to date and are available to the public electronically through the City's Website, or at http://quincy-ma.elaws.us/code/coor_title13_ch13.08.

The SUO provides authority to the Commissioner of Public Works to have the full supervision, direction, and control over the WSD Division and shall make such rules and regulations for its government as they deem advisable.

See **Appendix F** of the CMOM Program Document for the current service fees as approved by the City.

3. COLLECTION SYSTEM OPERATION

Chapter 3 of the City's CMOM Program Document outlines and describes the operation of the collection system which includes the following: budgeting; monitoring; hydrogen sulfide monitoring and control; safety; emergency preparedness and response; system modeling; system mapping; new construction; pump stations; fats, oils, and grease program; private sewers; off-road and easement sewers; and public education tools.

3.1 Budgeting

Annual Budgeting Procedure

The City's fiscal year begins on July 1st and spans through June 30th of the next calendar year. The City's Mayor establishes an initial budget and then collaborates with individual City Departments to determine the needs and objectives for the City in the coming year. This process includes a review of the expenditures and funding sources for the individual City Departments. The City Council Finance Committee holds hearings on the preliminary budget and makes adjustments, as needed. A finalized budget recommendation is then put before City Council for a vote of approval.

Sewer Enterprise Fund

The City has established an enterprise fund for collection system maintenance, assessment, improvements, and MWRA discharge fees. The allocation to this fund is determined via the process described in the Annual Budgeting Procedure, which looks at the previous year's expenditures, planned capital improvements, and funding that the sewer system received from other sources.

Sewer Rate Setting Procedures

According to City Ordinances, the sewer use charges are assessed based on the best feasible actual net cost of operating, maintaining, and improving the City's sewer system, including charges and assessments against the City by the MWRA. Each user is charge based on the best approximation of their contribution to the wastewater flows in the system.

A sewer rate analysis was completed by the City in June of 2021 and considered O&M expenses, future capital improvement projects, MWRA discharge fees, and debt service. Sewer rates were assessed based on water usage at a rate of $14.67 per hundred cubic feet (hcf) as of July 2021, which is a 3% increase from July 2018.

Available Funding Sources for Capital Projects

The City uses various funding sources for Capital projects in addition to the use of their traditional budget allocation and sewer rate revenues. Examples of previous funding sources include zero interest bonds or grants through the Massachusetts Water Resource Authority (MWRA), loans through the Massachusetts Clean Water Trust (MCWT), and grants from SRF funding and MWRA for Inflow and Infiltration reduction projects.

Accounting Methodology and GASB34

The City uses the Government Accounting Standards Board (GASB34) guidance to value their sewer system. Capital assets are recorded at historical cost or estimated historical costs, if actual historical costs are not available. Donated capital assets are recorded at their estimated fair market value at the date of the donation. Capital assets are depreciated on a straight-line basis, where infrastructure has an estimated

useful life between 10 and 50 years. The cost of normal maintenance and repairs that do not add to the value of the assets or materially extend asset lives are not capitalized and are treated as expenses when incurred. Improvements to the system are capitalized.

Capital Improvement Plan

The City's Capital Improvement Plan (CIP) provides for system repair/replacement on a prioritized basis. The prioritization is based on the SSES investigations which identify collection system defects (structural, maintenance, or I/I related) and consequent of failure analysis, outcomes of IDDE investigations and other water quality-based input. The City's average annual CIP budget is approximately $6-8M. The CIP is typically funded by low-interest State Revolving Fund loans, MWRA I/I Assistance Program, and/or municipal bonds.

Annual Infrastructure Plan

The City submits an Annual Infrastructure Plan as part of their April Consent Decree Compliance Report that documents planned repairs and locations, a prioritized schedule of repairs, and infrastructure that is in need of repair, but requires further assessment.

3.2 Monitoring

Monitoring of the wastewater collection system is a crucial responsibility for the City to ensure public safety, increase and maintain infrastructure lifespan, and protect the environment and downstream water treatment activities. The City is responsible for the monitoring and operation of all City-owned infrastructure including the pipe network and pumping stations. A SCADA system is utilized for continuous monitoring by DPW to ensure continued operations. All City-owned pump stations have auto-dialers to report alarms to the WSD staff.

The City is a member of the MWRA and works closely with the MWRA to meet many of the monitoring goals of the wastewater system, including the Industrial Pretreatment Program.

Routine Inspection – Pump Stations

The City utilizes their in-house pump station operators to inspect all City-owned pump stations daily. The City also retains an O&M contractor responsible for more detailed mechanical and electrical inspection and maintenance of the city-owned pump station who provide quarterly preventative maintenance to the City on the condition of all pump stations.

Routine Inspection – Sewer Piping

The City owns and operates a CCTV inspection truck, push cameras, and vactor trucks to routinely assess sewer piping at the direction of the Sewer Foreman and the DPW Engineering staff. The City utilizes a preventative maintenance flushing program for problematic locations highly susceptible to Fats, Oils, and Grease (FOG). The flushing program is managed by the Sewer Foreman.

Fats, Oils, and Grease (FOG) Monitoring

FOG can cause blockages, damage pumps, and create backups within the collection system. The City's DPW, Inspectional Services Department, and Department of Health have developed a FOG Program that aims to prevent, remove, and mitigate the effects of FOG in the system. This program is described in more detail in Section 3.10.

Industrial Pretreatment Program (IPP)
Industrial users in a collection system can often discharge non-domestic wastewater with non-typical contaminates to the sewer system. Industrial users must apply for IPP permits and comply with sampling requirements and reports in order to discharge to the wastewater system. These permits may require the user to implement pretreatment practices prior to their discharge. IPP permits throughout the City are issued and maintained by the MWRA Toxic Reduction and Control Division.

Sanitary Sewer Overflow (SSO)
The City is responsible for monitoring and reporting on sanitary sewer overflows or unauthorized discharges of wastewater from the collection system within the City. This includes monitoring and remediating the effects of a sanitary overflow to reduce, mitigate, or eliminate the risk to public health and the environment in due to an SSO. See **Appendix E** for the City's SSO Emergency Response Plan.

Storm Drain Management Program
The City maintains and operates their MS4 system which includes monitoring requirements under an existing NPDES permit. This program includes sampling plans that help prevent the discharge of untreated stormwater to the outfall watersheds. The sampling program helps to ensure that there are no cross-connections between the sewer collection system and the stormwater collection systems and that there were no overflows that entered into the stormwater system and discharge into the watershed.

3.3 Hydrogen Sulfide Monitoring and Control

The City maintains two odor control systems in Fort Square and Quincy Point Pump Stations. Hydrogen sulfide meters are present at the pump stations and are coupled with visual and audio alarms. There are four manual air relief valves along the Quincy Point force main used during shutdown or startup of the force main.

Hydrogen Sulfide has not been a major issue for the City. Odors originating from the collection system are not a frequent source of complaints. The City monitors hydrogen sulfide at its pump stations during daily inspections. Calls reporting odors typically originate from MWRA infrastructure or are the result of an internal plumbing issue which would not fall under the responsibility of the DPW. SIUs (significant industrial users) are permitted through the MWRA Toxic Reduction and Control Division.

Per Corrective Action 5 (Checklist Reference IV.B-3) the City inspected each air release valve in April 2022 and a rehabilitation/replacement program is under assessment. ***Appendix G*** *has been placed into the CMOM Program Document as a place holder for the City's long-term ARV maintenance program.*

3.4 Safety

The Sewer Foreman is responsible for specifying training requirements for the sewer division staff. Each employee has an individualized safety training program as appropriate for their individual role. Training certificates are kept on the individual's personnel files, and these files are maintained by the Sewer Foreman.

The Sewer Division maintains sufficient supplies and relevant equipment required for safe operations in the workplace. Personal Protective Equipment (PPE) is provided to each employee and proper equipment

and additional PPE is available to staff as needed for the work (e.g., harnesses for fall protection). Respirators are supplied and training/sizing for the respirators is provided. Methane/LEL metering is also provided.

Per Corrective Action 6 (Checklist Reference IV.C-1) of the City's Corrective Action Plan, the City intends to create a formalized Safety Training Program with lists of defined safety training by job requirement. This Safety Training Program will be under the direction of the DPW Operations Manager and trainings will be tracked using a centralized database. ***Appendix C*** *has been placed into this CMOM Program Document as a place holder for the for the City's future Safety Training Program.*

3.5 Emergency Preparedness and Response

The City adopted the Quincy Multi-Hazard Mitigation Plan in April 2019 which identifies critical community assets and evaluated the risk from natural hazards. This program identified DPW's specific hazard mitigation initiatives including the Water Systems Vulnerability Assessment, Emergency Response Plan, Storm Sewer Overflow policy and Disaster Debris Management Plan.

The City has developed the following documents for emergency preparedness **(Appendix E)**:

1. Sanitary Sewer Overflow Emergency Response Plan (SSO ERP) for collection system emergencies including procedures for Sanitary System Overflows (SSO).
2. Quincy Point Pump Station Emergency Response Plan

The Sewer Foreman and Engineer attend training through the MWRA for emergency response. In-house training for emergency response is provided to all relevant WSD staff. The City has a hazard mitigation plan (focused on natural hazards e.g., flooding mitigation) and an Emergency Management Department which coordinates activities and communication during emergency activations.

Per Section IV.D of the City's Corrective Action Plan, the City will create an integrated Emergency Response Plan that identifies vulnerable points within the sewer collection system, creates standard operating procedures for specific emergencies, and details training plans for staff types. The integrated Emergency Response Plan will supplement the City's existing Multi-Hazard Mitigation Plan and address communication needed with adjacent sewer authorities such as the Massachusetts Water Resource Authority. ***Appendix E*** *has been placed into this CMOM Program Document as a place holder for the for the City's future Critical System Component Emergency Response Plan.*

3.6 Modeling

The City completed a hydraulic capacity analysis of the City-wide collection system using InfoWorks ICM. The model incorporates record drawing level data for sewer pipes greater than 15-inches in diameter and identified no significant locations of hydraulic deficiency during dry weather. The sewer areas that have been identified to have potential hydraulic capacity issues in the hydraulic model are considered for rehabilitation during the City's ongoing sewer capital improvements. The City's hydraulic model is used to determine existing capacity of specific portions of sewer where building development is planned upon request of their design consultant. The InfoWorks ICM model has the capability of predicting the effects of system remediation and can be used to assess downstream capacity for new connections from significant developments. Pump station and force main capacity is evaluated as new significant connections are proposed.

The City completed a capacity analysis of their sewer siphons that was delivered to the EPA along with the CMOM Self-Assessment Checklist in September 2021.

Per Corrective Action Item 10 (Section IV.E-2) of the City's Corrective Action Plan, the City will install real-time alarm-based level sensors at the locations of predicted overflow and a representative sample of locations with limited freeboard to evaluate the actual risk of overflow for a 2-year storm event. A technical memorandum will be produced that documents the hydraulic conditions at these locations.

3.7 Mapping

The City utilizes GIS to map their collection system. The basis of the GIS is the City's record drawings, which are linked as an attribute to each pipe. Approximately 99% of the GIS system has a record drawing associated with the asset. Unique object and asset Ids are used in the GIS system to systematically identify manholes, sewer pipes, and pump stations. Sewer pipes are also identified by their upstream and downstream manholes which aid in tracking inspection data. The DPW has one GIS Administrator who oversees the incorporation and authorization of all the DPW's GIS assets, including sewer assets. The DPW has one GIS Technician who assists the GIS Administrator.

As-builts for collection system infrastructure and ArcGIS can be accessed by the Quincy DPW via tablets in the field or can be printed at the DPW. Maps are updated by field crews or by the City's collection system consultants as field investigations are conducted.

3.8 New Construction

New construction projects that can impact the sewer system or intend to connect to the sewer system are overseen by the DPW Engineers. Capital improvement projects including upgrades/renewal of the sewer system are generally based on aging infrastructure. The City's sewer system is fully developed, and expansion of the sewer system is not expected. Private developments or new constructions are subject to review by the City Engineer in order to ensure the downstream sewer system has the available capacity for the increase in flow volume and the connections to the City-Owned infrastructure are properly planned and constructed. The DPW Engineering Division also reviews development proposals under the site plan review process focusing on stormwater management, roadway adequacy, and sewer and water service.

The City maintains rules and regulations in the City ordinances which grant the City review and approval power for new developments that connect to the City-owned system. The sewer ordinances allow connection fees to be applied.

3.9 Pump Stations

The City's collection system consists of six (6) City-owned pump stations, five (5) MWRA-owned pump stations, and two (2) privately-owned pump stations. These stations are listed in Table 4 below and identified in Section 1.1 of this document. Daily inspections by the City are conducted at the Carlisle, Fort Square, Quincy Point, and Squantum Garden pump stations. All six (6) City-owned pump stations are inspected monthly and quarterly by the City's contract operators. Inspection checks are completed via a paper form located at the individual pump station that is then digitized by the DPW. Operation logs are maintained for the City's pump stations via a two-person pump station crew. Lead/lag/backup pumps are rotated regularly, where they exist.

Table 4: Pump Station Assets

Pump Station	Owner
The Strand	City
Fort Square	City
Quincy Point	City
Squantum Gardens	City
Carlisle	City
Evelyn Place	City
Merrymount	MWRA
Hough's Neck	MWRA
Nut Island	MWRA
Squantum	MWRA
Braintree-Weymouth	MWRA
Marina Bay	Private
Scannell/FedEx	Private

The large pump stations (Fort Square, Quincy Point, and The Strand) have sufficient redundancy of equipment. Evelyn Place, Carlisle Street, and Squantum Gardens are small ejector style pump stations and do not have redundant pumps. All City-owned pump stations have SCADA or auto dialers that report back to the DPW. Alarms and failures are directed to the Sewer Foreman who is responsible for determining if remediation actions are necessary, and then if they can be completed by the DPW, or if emergency contractors are required.

The Quincy Point, Fort Square, Carlisle, and the Strand pump stations are all equipped with backup power sources. Evelyn Place and Squantum Gardens do not have backup power; however, the DPW owns one large 550 kW portable generator and 10 smaller generators capable of handling the Evelyn Place and Squantum Gardens. The DPW also has access to an on-call generator and electrician, as well as their O&M contractor for their pump stations.

There are no procedures in place to modify pump station operations or for in-line storage during wet weather. The City's pump stations do not experience wet weather-related capacity limitations.

3.10 Fats, Oils, and Grease Program

FOG management is important to maintain the integrity of the sanitary collection system. As part of the FOG program, the City's Health Department performs, at a minimum, biannual inspections of the City's food service establishments to determine which have grease traps, the sanitary condition of these grease traps, and whether the facility has a grease log of when these traps were last serviced. The Health Department conducts additional inspections based on the past performance, type, and size of the food service establishment, as well as the risk it poses to the serviced population. The SUO allows the DPW Commissioner to enforce grease trap installation.

See **Appendix H** of this CMOM Program Document for the City's FOG Program Manual.

Per Corrective Action 3 (Checklist Reference III.F-4 of the City's Corrective Action Plan, the City will utilize the Inspectional Services Department and the Department of Health to identify FSEs that are at a high risk of discharging a high FOG load into the sewer system. FSEs that are at a high risk of discharging will be required to install a grease trap. A list of all restaurants requiring grease traps will be appended to ***Appendix H****.*

3.11 Private Sewers

The City receives flow from a number of private collection systems including Marina Bay, State Street, Crown Colony, MBTAs/DCRs, the Quincy Shipyard, and others. Flow from these private communities is billed based on water usage. Typically, these private collection systems will call the City for maintenance activities. During these instances, the City may bill the private entity or recommend a contractor for further maintenance. Wastewater flow from these private systems is not measured directly.

Private residences can be inspected during the property transfer process for illicit connections. The City may also identify illicit connections through SSES programs and through the ongoing IDDE program in accordance with MS4 requirements. SUO 13.08.110, adopted via City council order 2021-174, implemented a fee schedule associated with DPW services and a fee for unauthorized sewer use, such as sump pumps, downspouts, and other private sources of inflow. These connections are the responsibility of the owner to eliminate the inflow source.

Per Corrective Action Item 4 (Checklist Reference III.F-7) of the City's Corrective Action Plan, the City will create a map, with contact information, a standardized letter, and operating procedure will be incorporated into the CMOM Program Document. ***Appendix I*** *has been placed into this CMOM Program Document as a place holder for the for the City's future private sewer procedures.*

3.12 Off-Road & Easement Sewers

The City has various locations where sewers are located outside of the roadways and along City-owned easements. These sewers are critical assets as they are challenging to maintain and repair due to poor access and the need to coordinate with adjacent property owners. In addition, these sewers are typically located along corridors with a high propensity for plant growth, which translates to a higher-than-average risk of root intrusion.

Maintenance of these easements via shrub control and grubbing is an important operational and maintenance procedure to be completed by the City in case of sewer failure or emergency maintenance.

Per Corrective Action Item 11 (Checklist Reference V.B-1) of the City's Corrective Action Plan, the City intends to inventory their off road and easement sewer infrastructure. The inventory will locate sewers located off-road and through easements and will develop and inspection and maintenance protocol for each easement so that infrastructure is accessible for routine maintenance and emergency response. ***Appendix J*** *has been placed into this CMOM Program Document as a place holder for the for the City's future Off-Road Sewer Easement Program.*

3.13 Illicit Discharge Detection & Elimination (IDDE)

The City performs IDDE in accordance with the City's Consent Decree. This work includes dry weather and wet weather sampling of all drainage outfalls and key junction drainage manholes to prioritize drainage

catchments within the City to determine the presence of illicit discharge. Dry weather and wet weather sampling include bacteria, surfactant, ammonia, and chlorine sampling.

Sampling (i.e., screening), prioritization, and remediation of the City's drainage catchments is included in the City's IDDE Plan that aims to locate and remove illicit discharges from the sanitary sewer system to the drainage system. The results of the IDDE investigations are coordinated with the City's sewer system improvements on a rolling basis as illicit discharges must be remediated on an expedited schedule.

3.14 Public Education

The public typically knows very little about wastewater and sewer collection services; therefore, it is the City's goal to inform the public of their role in proper operation and maintenance of their sewer system. The City uses the following tools for public education, see **Appendix K** for example public education tools:

- FOG Pamphlets are available at the DPW and are periodically sent to the community with their water/sewer bills.
- Storm Drain Pamphlets are available at the DPW and are periodically sent to the community with their water/sewer bills.
- Quincy Public Television
- Collection System field crews utilize City of Quincy official vehicles to perform work or inspections. Vehicles are equipped should be equipped with adequate emergency lighting and flashers, traffic control signs and barriers.
- Prior to major construction or maintenance work, the City routinely distributes flyers to the affected community documenting the purpose of the work, the work hours to be expected, and contact information for questions.
- Lateral rehabilitation notices to inform homeowners of work to their sewer lateral during sewer rehabilitation.
- MassDEP SSO Notification Plan (plan in place 7/6/2022)

4. EQUIPMENT AND COLLECTION SYSTEM MAINTENANCE

Chapter 4 of the City's CMOM Program Document outlines and describes the City's maintenance of the collection system including budgeting, planned and unplanned maintenance practices, sewer line cleaning and inspection, and maintaining a spare parts and equipment inventory. Maintaining a comprehensive maintenance program can help a municipality assure infrastructure sustainability and prevent, mitigate, or effectively react to issues that can arise in the system.

4.1 Maintenance Budgeting

Maintenance budgeting is an integral part to the City's sewer collection operations. The maintenance budget is set annually via the Annual Budget Procedure described in Section 3.1 by reviewing the previous year's maintenance budget and projecting out the current year's preventative, corrective, and projected maintenance needs. A sizable portion of the City's maintenance budget is used to contract inspection and maintenance contractors that perform maintenance on the City's collection system.

4.2 Planned and Unplanned Maintenance

Planned maintenance activities are prescribed by the City's preventative maintenance program. Planned maintenance activities are typically completed by in-house staff and equipment or through contracted means. Planned maintenance activities below do not include capital projects such as sewer rehabilitation/replacement, which is discussed in Section 6 of this CMOM Program Document. Planned maintenance activities include the following items:

- Sewer Inspection and cleaning is completed using City equipment and staff. The City will also contract with local sewer inspection contractors for planned cleaning and inspection of sewer pipelines that are to be included in capital improvement projects.
- Fats, oils, and grease hot spot cleaning and degreasing is completed using City equipment and staff.
- Chemical root treatment is completed using contracted services.
- Pump station wet well cleaning is completed using contracted services.
- General pump station maintenance and repair is completed using contracted services and typically includes items such as pump repair/replacement, generator exercising, SCADA alarm checks, gate and valve exercising, and pipe replacement.

Unplanned maintenance activities are budgeted for by the DPW. Unplanned maintenance activities typically involve the following items:

- Use of their on-call excavation contractor to repair failed sewer pipelines.
- Use of their O&M contractor to perform reactive maintenance at their pump stations such as internal piping failure, pump failure, or other mechanical/electrical failure.

4.3 Sewer Cleaning

Sewer pipe cleaning is prioritized based on problem areas based on operator knowledge, and in preparation for upcoming capital improvement projects. System-wide cleaning and inspection prioritization is assessed on an annual basis as prescribed by the City's sewer system risk analysis, SSES inspections, water quality priority areas, and upcoming road paving projects.

Sewer cleaning by the City and its contractors is managed in the City's GIS system and is currently being integrated into the City's asset management software, Cityworks.

Sewer pipe segments with chronic problems are identified based on the customer service calls and operator knowledge. The DPW keeps a list of these priority sewer pipe segments, and the cleaning is completed at the direction of the Sewer Foreman. The City owns two jet vactor trucks, two flushing trucks, and two CCTV trucks (Aries). The City also utilizes two small push cameras for service lateral or other difficult to see inspections. The City has been using Jet Power II (manufactured by IndusCO), a foaming agent attached to the jetter hose, to breakdown grease in known problem locations.

The City assesses the presence of roots during routine maintenance activities as well as during subcontracted CCTV inspection. The City has utilized subcontractors to perform root control (chemical treatment and mechanical cleaning). There is no formal root control program in place, however the City performs annual rehabilitation that is prioritized based upon annual inspection efforts. Significant root blockages that are located during annual inspection efforts are addressed by City for in-house cleaning or potential rehabilitation through an annual capital project. The City uses a subcontractor to perform chemical treatment of roots in pipelines as needed.

4.4 Parts and Equipment Inventory

Critical spare parts for pump stations have been identified in the City's Pump Station O&M manuals and are maintained through the City's contract operators. Manhole covers, pipes, and bypass hoses are all stored at the DPW garage (55 Sea Street). Operators check supplies at the beginning of the workday and identify items with low quantities. The DPW also maintains three backup mobile pumps in order to respond to flood and overflow emergency situations.

Per Section III.D of the City's Corrective Action Plan, the City is currently in the process of integrating Cityworks, an asset management software, to track, organize, and prioritize their parts and equipment inventory. ***Appendix D*** *has been placed into this CMOM Program Document as a place holder for the City's future Cityworks Standard Operating Procedures regarding customer complaint work orders, emergency, maintenance, equipment inventories, and safety work order system.*

5. SEWER SYSTEM CAPACITY EVALUATION – TESTING AND INSPECTION

Maintaining available capacity in the sewer system is necessary for continued operation and use by the served community. The DPW is responsible for maintaining and improving the sewer collection system and the available capacity utilizing preventative and corrective maintenance, repairing failed assets, updating aging infrastructure, mitigating I/I, and monitoring the existing system. The City also has procedures for responding to customer backups as they are reported, which could severely decrease available capacity for upstream users. Inadequate capacity in a sewer system also increases the risk of SSOs, which could pose a public health risk or cause environmental damage. It is important for the DPW to know the capacity limits of the sewer system in both wet and dry weather conditions to prepare for all levels of flow.

The City has also developed a system capacity hydraulic model through InfoWorks ICM which can help identify hydraulic deficiencies the collection system. See Section 3.6 for additional details on this model.

In addition to the routine maintenance practices, the City conducts SSESs to investigate the components of the collection system and address areas of concern. These investigations include flow isolation, closed-circuit television inspections (CCTV), smoke testing, dye testing, and manhole inspections. Findings are used to identify and prioritize rehabilitation projects. Many of the SSES Inspection records are stored in the City's GIS software and available at the DPW.

A comprehensive set of previous SSES programs performed by the City are available at the DPW. Table 6 below is a list of the SSES programs completed or to be completed by the City through 2031.

Table 5: Sanitary Sewer System Evaluation Surveys

Year	Project Name
2011	SSES & City-Wide Flow Monitoring
2016	Salinity Report
2016	W&C SSES Phase III
2017	Wollaston Beach
2018	Citywide SSES
2019	Citywide SSES
2020	Citywide SSES
2022	Supplemental SSES (Areas 1 & 2 as described in the City's Consent Decree)
2025	SSES (Area 3 as described in the City's Consent Decree)
2028	SSES (Area 4 as described in the City's Consent Decree)
2031	SSES (Area 5 as described in the City's Consent Decree)

Flow Monitoring

Flow monitoring is used to provide information on the wastewater flow through the system. The goal of the flow monitoring in the City is to identify areas with high I/I flow or for use in their sewer system hydraulic model. Flow monitoring is generally used as the first stage of an SSES project to track dry weather and wet weather flows through different areas of the system. Flow monitoring data is then used to identify and locate I/I contributing to the system, which is reducing the capacity of the system and is costly for the treatment plant to process the excess water in the system. Elimination of I/I is a component of the SSES projects undertaken by the City. To date, the City has performed a flow monitoring program for the majority of the City-wide system through continuous monitoring for billing or through flow isolations programs.

Sewer System Inspection

Collection system inspections are some of the primary ways to identify problem areas in the manholes and pipelines. Visual inspections are performed on a routine basis and during preventative or corrective maintenance tasks. CCTV Inspections are completed as part of SSES programs to thoroughly observe a sewer pipe or manhole by sending a camera on a robotic crawler through the system. CCTV investigations identify issues in the collection system components such as cracks, breaks, grease buildup, roots, defective taps, I/I sources, evidence of surcharge, and other system defects. Preventative and corrective actions can be planned or performed based on the findings during these investigations.

The City inspects its system components on a routine basis or as needed if a problem area is found to have potential structural or O&M issues. The DPW has sufficient equipment to perform a CCTV inspection and the City's camera operators are certified by the National Association of Sewer Service Companies (NASSCO) in the Pipeline Assessment and Certification Program (PACP). Contractors who conduct SSES program related inspection are also required to be NASSCO PACP certified and submit inspection reports compliant with the NASSCO standard. SSES program inspections are used to find and prioritize I/I elimination, structural defect rehabilitation, or operation and maintenance defect rehabilitation, depending on the project. The City uses their GIS system to keep records of the latest inspections or rehabilitations to the assets.

Sewer System Testing

Testing of the collection system can also help identify defects, inflow sources, and illicit connections in the sewer system. During SSES programs or independent DPW investigations, smoke testing or dye testing may be used to test infrastructure components and connections.

Flow Isolation

Flow isolation is an infiltration measuring technique that the City uses to measure nighttime flows in the sewer system to determine the gallons per day per inch diameter mile (GPD/IDM) of infiltration per sewer stretch (typically completed in 1,000 LF segments). Per MassDEP guidelines, sewers that have a >4,000 GPD/IDM are considered to be cost effective to inspect and rehabilitate. The City uses contractors to complete this specialty type of inspection work.

Smoke Testing

Smoke testing is a relatively inexpensive and quick method of detecting sources of inflow into a sewer. By isolating a section of pipe and introducing a large volume of smoke, investigators will be able to observe sources of inflow by smoke escaping from the system. Common sources or illicit connections that can be identified through smoke testing are roof leaders, abandoned sewer lines, yard drains, cellar sump pumps,

and cross-connections between the storm and sewer system. Smoke can also escape through structural defects in the pipe or manhole which can be seen by smoke escaping through the ground surface or pavement. The City uses contractors to complete this specialty inspection work.

Dye testing

Dye testing is a more targeted approach to collection system testing to determine whether there is a connection from one point to the sewer system. A colored dye is introduced at the drainage source of a potential inflow source to the sewer system. An operator either visually or using a camera observe whether or not the colored dye enters the sewer system. The City typically uses contractors to complete dye tests, but also has the capabilities to perform these tests with DPW staff.

The DPW implements these testing methods in conjunction with, or following system inspection, in order to identify defects, I/I sources, and illicit connections in the collection system. The elimination of illicit connections and I/I sources is especially important in maintaining available flow capacity in the sewer system. SSES programs generally utilize stages of monitoring, inspections, and testing of sewer components to identify and implement a priority-based and cost-effective rehabilitation strategy.

6. SEWER SYSTEM REHABILITATION

The City of Quincy was originally settled in 1625 with portions of the sewer collection system being over 100 years old. The City utilizes the practices described in this program to maintain the collection system in proper working order to ensure effective and continuous sewer service. The City has undertaken a variety of sewer system rehabilitation projects based on findings from SSES evaluations or identified through routine DPW operations. Rehabilitation project information, including record drawings, are available at the DPW. The City is integrating their new asset management software, Cityworks, to manage and maintain records for the collection system operations and maintenance (including repairs).

A list of historic and ongoing sewer rehabilitation projects is provided in Table 6 below. This information was queried from the City's GIS system and supplemented with project documentation.

Table 6: Sanitary Sewer Collection System Rehabilitation Projects

Year	Project Name
1988	Gardiner Road Extension
1997	Strand Sewer and Drain Improvements
2011	Phase I Coastal Manhole II Reduction
2012	Phase IIA Coastal Structures II Reduction
2015	Fort Square Pump Station Improvements
2017	John St. Sewer Repair
2016	Poplar Road Emergency Sewer Repairs
Pre-2016	Sharon Road Rehabilitation
Pre-2016	Sims Road Improvements
2017	Phase IIB Sewer II Reduction
2017	Furnace Brook Parkway and John Street Sewer Repair
2017	Bayside Road Sewer Repair
2017	Wollaston Beach Area SSES Rehabilitation Phase I
2018	Avalon Beach and Bay Point Marina Sewer Easement Repair
2018	Turner Street Emergency Sewer Repair
2018	Greenway Utility Improvement
2018	Wollaston Beach Area SSES Rehabilitation Phase II
2018	Hancock Adams Green Phase 2
2019	FY2019 CIPP
2020	The Strand Pump Station Improvements
2020	FY2019 Open Cut Sewer
2020	FY2020 Sewer and Drainage System Repairs Contract A
2020	FY2020 Sewer CIPP Improvements Contract B
2020	East Squantum Street and Essex Street Emergency Sewer Repairs
2020	Kilroy Square Utility Improvements
2020	Merrymount Parkway Sewer
2020	General McConville Way Utility Improvements
2020	Generals Parks
2021	Phipps Street Emergency Repair
2021	FY2021 CIPP Improvements
2021	Adams Street Emergency Repair
2022	FY21 Open Cut Excavation Sewer System Repairs
2022	FY22 Sewer Improvements Contract 1

2022	FY22 Sewer Improvements Contract 2
2022	Quincy Public Safety Complex Utility Improvements

APPENDIX A: CITY OF QUINCY SEWER COLLECTION SYSTEM INVENTORY

CITY OF QUINCY SEWER COLLECTION SYSTEM INVENTORY

250 Royall Street
Canton, MA 02021
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

#1774
City of Quincy
September 2021

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TABLES

APPENDICES

1. QUINCY COLLECTION SYSTEM INVENTORY

As requested in Paragraph 19a of the City's Consent Decree (Civil Action 1:19-CV-10483-RGS), this section describes the City of Quincy's sanitary sewer collection system characterized by age, condition, type of construction, and operation of each element where such information exists. This inventory is up to date as of September 2021 and relies on the City's GIS systems, inspection databases, and operational inspections for characterization. Collection system asset classes included in this inventory are as follows:

- Sanitary Sewer Gravity Mains (1,102,260 LF)
- Sanitary Sewer Manholes (5,709 Manholes)
- Sanitary Sewer Pump Stations (6 Pump Stations)
- Sanitary Sewer Force Mains (11,000 LF)

See Appendix A for sewer system mapping for age, condition, and construction/operation types.

See Appendix B for recent pump station inspection data and inventory.

1.1 System Age

The City of Quincy's sewer system is characterized by the following age distribution of their gravity sewer mains and manholes.

Table 1: Gravity Main Age Distribution

Gravity Main Pipe Age (Years)	Linear Feet of Sewer	% of System
<21	110,710	10%
21-40	12,706	1%
41-60	63,811	6%
61-80	155,567	14%
81-100	364,963	33%
>100	394,505	36%
Grand Total	1,102,260	100%

The City of Quincy's sewer system is characterized by the following age distribution of their pump stations and force mains.

Table 2: Pump Station & Force Main Age Distribution

Pump Station Name	Original PS Startup Date	PS Rehabilitation Year	FM Diam	FM Material	FM Status
The Strand PS	1997	2021	6"	HDPE	Replaced 2021
Fort Square PS	1983	2015	18"	CLDI	Original
Quincy Point PS	1987	2017	20"	CLDI	Original

Pump Station Name	Original PS Startup Date	PS Rehabilitation Year	FM Diam	FM Material	FM Status
Squantum Gardens PS	1980s	Original	4"	CLDI	Original
Carlisle Street PS	2004	Original	4"	CLDI	Original
Evelyn Place PS	2007	Original	4"	CLDI	Original

1.2 System Condition

The City of Quincy's gravity sewer mains and manholes can be characterized by the following condition distribution based upon CCTV inspection and NASSCO likelihood of failure analysis. Manhole inspections are completed by the City in parallel with pipe inspection, for this analysis manhole likelihood of failure is assumed to equal pipeline likelihood of failure.

Table 3: Gravity Sewer Main Likelihood of Failure Analysis Per CCTV Inspection

Pipe LOF	Linear Feet	% of System
Not Inspected	611,482	55%
LOF=1	152,732	14%
1<LOF<3	48,125	4%
3<=LOF<4	91,899	8%
4<=LOF<5	117,734	11%
>5	80,288	7%
Grand Total	1,102,260	100%

The City of Quincy's pump stations and force mains are assessed on a monthly and quarterly basis by the City's contract operators, Weston & Sampson. In general, the City's large pump stations have been recently rehabilitated (The Strand, Fort Square, and Quincy Point) and the City's smaller pump stations (small, residential, wetwell submersible type) are in satisfactory condition. A general assessment of the pump stations primary components (pumps, screening/grinding, general electrical/structural/mechanical) is included below. **See Attachment B** for recent pump station inspection records and condition.

Table 4: General Pump Station and Force Main Condition Assessment

Pump Station Name	General PS Condition	PS Rehab. Year	FM Diam.	FM Material	FM Status
The Strand PS	Pumps: Operating Normally General: Operating Normally	2021	6"	HDPE	Operating Normally
Fort Square PS	Pumps: Operating Normally Grinders: Cleaning Needed General: Operating Normally	2015	18"	CLDI	Operating Normally

Pump Station Name	General PS Condition	PS Rehab. Year	FM Diam.	FM Material	FM Status
Quincy Point PS	Pumps: Operating Normally Grinders: Operating Normally General: Operating Normally	2017	20"	CLDI	Operating Normally
Squantum Gardens PS	Pumps: Operating Normally General: Operating Normally	Original	4"	CLDI	Operating Normally
Carlisle Street PS	Pumps: Operating Normally General: Operating Normally	Original	4"	CLDI	Operating Normally
Evelyn Place PS	Pumps: Operating Normally General: Operating Normally	Original	4"	CLDI	Operating Normally

1.3 System Construction and Operation

The City of Quincy's sewer system construction and operation is characterized by the following material and size distribution of their gravity sewer mains in linear feet.

Table 5: Sewer Gravity Main Distribution by Size and Material

Pipe Material / Size (in)	Length of 4-8"	Length of 10-12"	Length of 10-12"	Length of 15-30"	Length of >36"	Grand Total
ABS	386					386
AC	179					179
BR	20				1,710	1,730
CI	706	429	429			1,135
CICL	5,845	1,027	1,027			6,873
CIPP	47,551	17,478	17,478	27,053	7,861	99,943
CP	299					299
DIP				1,112		1,112
PVC	33,445	14,879	14,879	1,075	502	49,899
RCP		1,560	1,560	8,819		10,380
VCP	749,982	136,050	136,050	43,731		929,764
HDPE	560					560
Grand Total	**838,973**	**171,424**	**171,424**	**81,791**	**10,072**	**1,102,260**

The City of Quincy's sewer system pump stations are characterized in **Table 4** and as shown in **Appendix B.**

APPENDIX A: SEWER SYSTEM MAPPING

FIGURE 1

City of Quincy
Sewer Collection
System Inventory
Pipe Material & Size

N

MWRA HIGH LEVEL SERVICES

BRAINTREE-WEYMOUTH INTERCEPTOR & TUNNEL

Marina Bay PS
Squantum PS
Scannel Fedex PS
Squantum Garden PS
Carlisle Street PS
The Strand PS
Everlyn Place PS
Merrymount PS
Braintree-Weymouth PS
Nut Island PS
Hough's Neck PS
Fort Square PS
Quincy Point PS

Legend

Sewer Gravity Main
Pipe Diameter
- 4-8"
- 10-12"
- 15-24"
- 26-30"
- >30"

Sewer Gravity Main
Pipe Material
- CIPP
- PVC
- RCP
- ABS
- AC
- CP
- BR
- HDPE
- METAL PIPE
- VCP

Owner
- PS MWRA
- PS Private
- PS Quincy

Sewer Force Main
- Private
- Quincy

MWRA Sewer Main
Flow Type
- Gravity
- Pressurized

0 0.125 0.25 0.5 Miles

Project #: 1774
Map Created: September 2021

Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk. **Data Sources: City of Quincy, MWRA, MassGIS**

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Figure Exported: 9/29/2021 By: plyons Using: \\woodardcurran.net\shared\Projects\23025\5 Quincy, MA - EPA Consent Decree Negotiations\wip\CD Deliverable Schedule\2021.09.30 P19 - CMOM Self Assessment\Collection Inventory\Collection System Inventory-materialsize.mxd

FIGURE 2

City of Quincy
Sewer Collection
System Inventory
Pipe Age

N

Legend

Sewer Gravity Main
Current Pipe Age

- <21
- 21-40
- 41-60
- 61-80
- 81-100
- >100
- PS MWRA
- PS Private
- PS Quincy
- Sub Areas

Marina Bay PS
Squantum PS
Scannel Fedex PS
Squantum Garden PS
Carlisle Street PS
The Strand PS
Evelyn Place PS
Merrymount PS
Fort Square PS
Quincy Point PS
Nut Island PS
Hough's Neck PS
Braintree-Weymouth PS

0 0.125 0.25 0.5 Miles

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FIGURE 3

City of Quincy
Sewer Collection
System Inventory
Gravity Main LOF
(Likelihood of Failure)

N

Legend

Sewer Gravity Main
Current LOF via CCTV

- No CCTV LOF Data
- LOF<3
- 3=<LOF<4
- 4=<LOF<5
- LOF>5
- PS MWRA
- PS Private
- PS Quincy
- Sewersheds

Marina Bay PS
Squantum PS
Scannel Fedex PS
Squantum Garden PS
Carlisle Street PS
The Strand PS
Evelyn Place PS
Merrymount PS
Braintree-Weymouth PS
Nut Island PS
Hough's Neck PS
Fort Square PS
Quincy Point PS

G
E
E2
D
D2
C
B
K1
K2
K3
K4
K5
A
A1
A2
H
J
J2
J3
J4

0 0.125 0.25 0.5 Miles

Project #: 1774
Map Created: September 2021

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APPENDIX B: PUMP STATION INSPECTIONS AND INVENTORY

FORT SQUARE PUMP STATION

CMR Pump Station & Generator Inspection

Record: 10676	
Location	*Quincy*
Client	*Quincy*
Pump Station	*Fort Square*
Inspector	*Michael Greco*
Date	*2020-08-26*
Pumps	*4*
Pump #1 RTM Reading	*8728.1*
H-O-A #1	*Yes*
H-O-A #1 Status	*Auto*
Pump #2 RTM Reading	*7812.4*
H-O-A #2	*Yes*
H-O-A #2 Status	*Auto*
Pump #3 RTM Reading	*8657.9*
H-O-A #3	*Yes*
H-O-A #3 Status	*Auto*
Pump #4 RTM Reading	*25281.0*
H-O-A #4	*Yes*
H-O-A #4 Status	*Auto*
Pump #4 L1	*19.3*
Pump #4 L2	*19.2*
Pump #4 L3	*19.1*
VFD #4	*52hz*
Line Voltage	*484,483,484*
Alarm Status	*On*
Alarm Status Comment	*Ok*
Breakers	*OK*
Wet Well	*Yes*
Level of Wet Well	*Ok*
Wet Well Condition	*OK*
Would this station benefit from a protein matrix system?	*No*
Dehumidifier	*No*
Totalizer (Gallons)	*974601*
Generator	*Yes*
Number of Generator(s)	*1*
Generator #1 Status	*OK*
Run Time #1	*120.8*
Compressors	*No*

Photo 1	
Photo 2	
General Comments	*Pulsar system is still offline.* *City did want to run the bigger pumps due to the lack of inflow ,and conditions of the wet well and running it low* *Notes:* *SEE INSPECTION REPORT*

CMR Grinder Inspection

Record: 3878	
Location	*Quincy*
Clients	*Quincy Pump Stations*
Station	*Fort Square*
Inspector	*Michael Greco*
Date	*2020-08-26*
Power	*On*
Selector Switch	*Hand*
Operating	*Yes*
Alarms	*No*
Chamber Obstructions	*No*
Amps L1	*4.7*
Amps L2	*4.5*
Amps L3	*4.4*
Volts L1	*482*
Volts L2	*482*
Volts L3	*481*
General Comments	*Grinder inlet may need to be cleaned*

QUINCY POINT PUMP STATION

CMR Pump Station & Generator Inspection

Record: 10682	
Location	*Quincy*
Client	*Quincy*
Pump Station	*Quincy Point*
Inspector	*Michael Greco*
Date	*2020-08-26*
Pumps	*3*
Pump #1 RTM Reading	*1455.1*
H-O-A #1	*Yes*
H-O-A #1 Status	*Auto*
Pump #1 L1	*122.2*
Pump #1 L2	*123.7*
Pump #1 L3	*123.2*
VFD #1	*56hz*
Pump #2 RTM Reading	*1435.7*
H-O-A #2	*Yes*
H-O-A #2 Status	*Auto*
Pump #2 L1	*126.5*
Pump #2 L2	*124.8*
Pump #2 L3	*125.9*
Pump #3 RTM Reading	*1464.0*
H-O-A #3	*Yes*
H-O-A #3 Status	*Auto*
Pump #3 L1	*124.4*
Pump #3 L2	*123.4*
Pump #3 L3	*125.6*
VFD #3	*57hz*
Line Voltage	*487:486,486*
Alarm Status	*On*
Alarm Status Comment	*Ok*
Breakers	*OK*
Wet Well	*Yes*
Level of Wet Well	
Would this station benefit from a protein matrix system?	*Yes*
Protein Matrix Added?	*Yes*
Protein Matrix	*PM- 4*
Dehumidifier	*Yes*
Dehumidifier Status	*Operational*
Unit Heater	*Yes*
Unit Heater Status	*Off*
Totalizer (Gallons)	*486378*
Generator	*Yes*
Number of Generator(s)	*1*
Generator #1 Status	*OK*
Run Time #1	*38.0*
Compressors	*No*

Photo 1	
Photo 1 Description	*Wet well*
General Comments	*Operation seems normal at this time*

CMR Grinder Inspection

Record: 3881	
Location	*Quincy*
Clients	*Quincy Pump Stations*
Station	*Quincy Point*
Inspector	*Michael Greco*
Date	*2020-08-26*
Power	*On*
Selector Switch	*Hand*
Operating	*Yes*
Alarms	*No*
Chamber Obstructions	*No*
Amps L1	*4.8*
Amps L2	*4.4*
Amps L3	*4.4*
Volts L1	*487*
Volts L2	*486*
Volts L3	*486*
General Comments	*Operation seems normal at this time*

THE STRAND PUMP STATION

CMR Pump Station & Generator Inspection

Record: 10694	
Location	*Quincy*
Client	*Quincy*
Pump Station	*The Strand Sewer*
Inspector	*Michael Greco*
Date	*2020-08-26*
Pumps	*2*
Pump #1 RTM Reading	*42222.3*
H-O-A #1	*Yes*
H-O-A #1 Status	*Auto*
Pump #1 L1	*3.5*
Pump #1 L2	*3.5*
Pump #1 L3	*3.6*
Pump #2 RTM Reading	*46122.9*
H-O-A #2	*Yes*
H-O-A #2 Status	*Auto*
Pump #2 L1	*3.5*
Pump #2 L2	*3.5*
Pump #2 L3	*3.6*
Line Voltage	*477,478,477*
Alarm Status	*On*
Breakers	*OK*
Wet Well	*Yes*
Level of Wet Well	*Ok*
Wet Well Condition	*OK*
Would this station benefit from a protein matrix system?	*No*
Dehumidifier	*No*
Unit Heater	*No*
Generator	*Yes*
Number of Generator(s)	*1*
Generator #1 Status	*OK*
Compressors	*No*
General Comments	*Operation seems normal at this time*

SQUANTUM GARDENS PUMP STATION

CMR Pump Station & Generator Inspection

Record: 10706	
Location	*Quincy*
Client	*Quincy*
Pump Station	*Squantum*
Inspector	*Michael Greco*
Date	*2020-08-26*
Pumps	*2*
Pump #1 RTM Reading	*30.2*
H-O-A #1	*Yes*
H-O-A #1 Status	*Auto*
Pump #1 L1	*5.9*
Pump #1 L2	*5.6*
Pump #1 L3	*5.8*
Pump #2 RTM Reading	*59.0*
H-O-A #2	*Yes*
H-O-A #2 Status	*Auto*
Pump #2 L1	*5.5*
Pump #2 L2	*5.6*
Pump #2 L3	*5.5*
Line Voltage	*246,246,245*
Alarm Status	*On*
Alarm Status Comment	*Ok*
Breakers	*OK*
Wet Well	*Yes*
Level of Wet Well	*2.2*
Wet Well Condition	*OK*
Would this station benefit from a protein matrix system?	*No*
Dehumidifier	*No*
Unit Heater	*Yes*
Unit Heater Status	*Off*
Generator	*No*
Compressors	*No*
General Comments	*Notes:* *SEE INSPECTION REPORT*

EVELYN PLACE PUMP STATION

CMR Pump Station & Generator Inspection

Record: 10712	
Location	*Quincy*
Client	*Quincy*
Pump Station	*Evelyn Place*
Inspector	*Michael Greco*
Date	*2020-08-26*
Pumps	*2*
Pump #1 RTM Reading	*498.89*
H-O-A #1	*Yes*
H-O-A #1 Status	*Auto*
Pump #1 L1	*16.9*
Pump #1 L2	*16.8*
Pump #2 RTM Reading	*460.10*
H-O-A #2	*Yes*
H-O-A #2 Status	*Auto*
Pump #2 L1	*16.9*
Pump #2 L2	*17.0*
Line Voltage	*243*
Alarm Status	*On*
Breakers	*OK*
Wet Well	*Yes*
Level of Wet Well	*Ok*
Wet Well Condition	*OK*
Would this station benefit from a protein matrix system?	*No*
Dehumidifier	*No*
Unit Heater	*No*
Generator	*No*
Compressors	*No*
Floats	*Ok*
General Comments	*Notes:* *SEE INSPECTION REPORT*

CARLISLE STREET PUMP STATION

CMR Pump Station & Generator Inspection

Record: 10703	
Location	*Quincy*
Client	*Quincy*
Pump Station	*Carlisle St*
Inspector	*Michael Greco*
Date	*2020-08-26*
Pumps	*2*
Pump #1 RTM Reading	*1094.1*
H-O-A #1	*Yes*
H-O-A #1 Status	*Auto*
Pump #1 L1	*6.2*
Pump #1 L2	*6.7*
Pump #1 L3	*6.9*
Pump #2 RTM Reading	*1207.5*
H-O-A #2	*Yes*
H-O-A #2 Status	*Auto*
Pump #2 L1	*6.1*
Pump #2 L2	*6.9*
Pump #2 L3	*6.7*
Alarm Status	*On*
Breakers	*OK*
Wet Well	*Yes*
Level of Wet Well	*2.51*
Wet Well Condition	*OK*
Would this station benefit from a protein matrix system?	*No*
Dehumidifier	*No*
Unit Heater	*No*
Generator	*No*
Compressors	*No*
Photo 1	
General Comments	*Operation seems normal at this time*

WOODARD &CURRAN

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

APPENDIX B: DPW ORGANIZATIONAL CHART

DPW ORGANIZATION CHART APRIL 4, 2022

SEWER DIVISION 4/30/2022
JOB DESCRIPTION UPDATES

COMMISSIONER — A. GRAZIOSO

CITY ENGINEER — P. COSTELLO

SUPT. OF H/S/W/D — L. PRENDEVILLE

BUSINESS MGR. — N. MCCOLE

OPERATIONS MGR. — M. NORTON

ADMIN. SEC. — J. THANO

PROGRAM MGR. — T. HENRY

RECYCLE COOR. — M. McGOWAN

Engineering Division

GIS ADMIN. — S. WASHBURN — E

GIS TECH. — J. DEVIN — E

PROJECT MGR. — M. KINTOGOS — E

SR. DRAFTSPERSON — N. GAVAZA — E

ADMIN. SEC. — T. BOSSART — E

SR. ENG. GR. 4 — J. GUARINO, C. TSANG, D.GIANNANDREA — E

JR.CIV.ENG.GR.3 — J. VRADENBERG, J. CASSERLY, B. TARIYO — E

EIT — M. THOMPSON — E

JR. CIV. ENG.GR.3 — M. VIALPANDO — E/S/W

Billing Operations

OFFICE MGR. — B. DONAGHEY — S/W

W/S BILLING SPEC. — D. HANLY — S/W

PRINC. CLERK I — L. KENNEY, L. GRIMMETT — S/W

SR. CLERK II — P. REARDON, J. JAEHNIG (3 POSITONS) — S/W

MGR. OF ACCOUNTS — K. MCALDUFF — S/W

HEAD CLERK — H. DONOVAN — S/W/D

GENERAL FOREMAN S/W/D — C. NEWTON, J.MASTROIANI

RECEPTIONIST — J. JAEHNIG

DISPATCHER — N. BALL, C. DETOMA — S/W/D

SR. CLERK TYP. II — T. RYAN — S/W/D

S/W/D DIVISION

METER FOREMAN — B. WRIGHT — S/W

SEWER FOREMAN — E. MALAMES — S/W

WATER FOREMAN — A. VALENTINO — S/W

DRAIN FOREMAN — F. McARDLE — S/W

WATER DIST. SUPERVISOR — S. BRENNION — S/W

WF SPEC. HVY. MEO — S. KOSLOWSKI, VACANT — S/W/D

WF W/S MAINT. MAN — VACANT — S/W/D

WF TOOLKEEPER — E. WOOD — S/W/D

WF W/S MAINT. CRAFTSMAN — E. ROWAN, VACANT — S/W/D

SR. WATER SERVICE INSP. — M. CAPORALE, J. SPADORCIA, J. MULLEN — S/W/D

HEAD PUMP STA. OPERATOR — D. TAMULIS — S/W/D

WATER SERV. INSP. — VACANT — W

METER REPAIR — E. DONOVAN, K. GALLIGAN, S. HICKEY, C. LUMAGHINI — S/W

METER READER — F. DONOVAN — W

SPEC. HVY. MEO — A. LEWIS, J. FRAWLEY, S. BRADLEY, G. COOPER, D.BROADBENT, S. ALDEN, A. MORANO — S/W/D

W/S MAINT. CRAFTSMAN — E. McCORMACK ?, C. ELLIS, S. MALOOF, VACANT — S/W/D

HVY. MEO I — S.PACCIORETTI, E. PHINNEY, C. MAHER, VACANT — S/W/D

LABORER — L. MACMACKEN, T.McCORMACK (2 POSITIONS) — S/W/D

MOTOR EQUIP. REPAIR — T. MARBLE — S/W/D

PIPE LAYER BRACER — B. JOHNSON — S/W/D

LABORER MEO — P.McNAMARA, D. McGRATH, R. HARRINGTON — S/W/D

W/S MAINT. MAN — A. GWYNN — S/W/D

LEAK DETECTION SUPERVISOR — B. PEKINEN — S/W

LEAK DETECTOR — J. BERGSTROM — W

PUMP STA. OPERATOR — R. WRIGHT — S/W/D

PUMP STA. ATTENDANT — J. MARIANO — S/W/D

CUSTODIAN — P. SKARZENSKI

VIDEO TECH. — J. McCUE — S/W/D

Waste Mgmt. Division

Highway Operations

GEN. FOREMAN HIGHWAY — E. LEARY, F. MAHER

FOREMAN — K. WOOD, S. MANOLAKIS, K.JOHNSON

WF SPEC. MEO — S. PHILBROOK, A. LIO, T. MACKAY, D. SOLOMINI, VACANT

HVY.MEO MASON — B. HARD, VACANT, VACANT

MASON — M. MORMINO, P. LINEHAN

CARPENTER — J. LEE

HVY. MEO — J. FLAHERTY, F. DONAHUE, VACANT, VACANT, VACANT

MEO LABORER — B. NOONAN, T. BARRY, E. HARVEY, M. ROUTIER, S. EWING, R. KELLEY, P. CONLEY

SPEC. MEO — J. GREENE ?, C. PLACE, R. QUIGLEY, S. BUONOPANE, J. MORRIS, B. CHASE, J. CALLAHAN, VACANT, VACANT

GARDENER/ LABORER — R. GREGORY, C. LOGAN, D. JOYCE, T. KEEF, D. ORIOLA

FOREMAN MER — P. DEVEREAUX

MOTOR EQUIP. REP. II — C. BERGSTROM, J. BOLAND, W. EAGLES

HVY. MEO HIGH PRESSURE — D. McCARTHY

133 EMPLOYEES

4/4/2022

Thomas P. Koch
Mayor

Patricia A. McGowan
Director

City of Quincy,
Massachusetts
Office of Human Resources

NOTICE OF AVAILABLE POSITION
QPEA
(Quincy Public Employee's Association)
For Union Members Only

TITLE: Jr. Civil Engineer

DEPT: Sewer/Water/Drain

SALARY:	Start	Step 1	Step 2	Step 3	10 Years
	$74,564	$79,058	$83,536	$88,024	$91,652

DATE: July 8, 2021

JOB REQUIREMENTS: Please see attached

Please sign and return this notice to the Human Resources Department by **Monday, July 19, 2021,** if you are interested in the position. All information below must be supplied. It is advised to attach a resume.

NAME (PLEASE PRINT)	**DATE SIGNED**	**DEPARTMENT**	**EXTENSION**

City Hall 1305 Hancock Street Quincy, MA 02169
Phone: 617-376-1065 Fax: 617-376-1520 TTY/TD: 617-376-1375
pmcgowan@quincyma.gov

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts
25M 2-80 D396218

POSITION TITLE CODE
N/A

1. POSITION TITLE:
Jr. Civil Engineer- Sewer Water & Drain

CITY OR TOWN AND/OR AGENCY
Quincy/Engineering Department

2. APPROPRIATION OR AGENCY CODE	POSITION NO.	SALARY	DATE PREPARED
N/A			June 29, 2021

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES:
Working under the direction of the Commissioner of Public Works or the City Engineer, shall assist in the engineering office design and project management. Provide technical office and field oversight required in connection with the design, permitting and construction of public works roadway and utility projects.

4. SUPERVISION RECEIVED (NAME AND TITLE OF PERSON FROM WHOM INCUMBENT RECEIVES DIRECTION)
Commissioner of Public Works, City Engineer, Superintendent, Operations Manager

5. SUPERVISION EXERCISED (NAMES AND TITLES OF PERSONS SUPERVISED BY INCUMBENT)
Lower Level Engineering Department Staff and Consulting Engineering Firms

6. DUTIES AND RESPONSIBILITIES

Under the direction, supervision and instruction to the Commission of Public Works, the City Engineer and/or another of employee of high grade, shall:

1. Performs mid- to upper-level project management functions; prepares project plans and specifications; develops quantity take-offs and cost estimates; oversees construction field activities; and coordinates activities within Public Works and with other City departments, external agencies and the general public.
2. Track and record Blacks Creek tides, wind speed and expected precipitation consistent with the DPW tide gate policy.
3. Complete, maintain and file all monthly tide gate and outfall reports, including catch basin cleaning date.
4. Complete, maintain, update, and file all report of all pump station maintenance logs
5. Complete, maintain, updating of all reports regarding Sanitary Sewer Overflows (SSO) Reports
6. Complete, maintain, update, and file all reports regarding the truck wash station.
7. Administers construction contracts by providing engineering support during project construction, reviews requisitions, responds to Requests for Information (RFI), processes contract change orders and design revisions.
8. Performs work on problems or projects from minor to major complexity requiring basic knowledge of civil engineering principals, for water distribution systems, sewer collection and drainage collection systems. Work shall include significant latitude for independent professional judgment.
9. Uses sound approach and technically correct methodology in the solution of problems.
10. Performs necessary computations, collects engineering and field survey data, and checks the work of others.
11. Assists in preparing staff reports for City Hall, the City Council or other meeting agenda items.
12. Attends various internal and external meetings regarding engineering topics or issues and respond to questions and inquiries from various individuals, groups, organizations, or companies regarding a wide range of engineering topics and issues.
13. Assists in updating the various atlas of utilities and the utilities of the City's Geographic Information System (GIS).
14. Supports the relationship between the City and the general public by demonstrating courteous and cooperative behavior when interacting with visitors, the public and City staff; maintains confidentiality of work-related issues and City information; performs other duties, as assigned.

7. QUALIFICATIONS AND ENTRANCE REQUIREMENTS
(Include required knowledge, abilities, and skills. Also specify entrance requirements such as experience and /or education).

- Should possess a minimum of ten (10) years of work experience in the design and construction of civil works and municipal facilities including field survey, design development, permitting, project estimates, development of contract documents and drawings in relation to roads, flood protection works, wastewater collection, storm drainage collection, water supply distribution, parking areas and playgrounds, and other public amenities.
- Proficiency in communication skills is desirable.
- Demonstrate ability to manage others and to work cooperatively with other staff in a professional manner.
- Must posses a Grade 2 Drinking Water License.
- Must have completed certification for Confined Space Entry Training.
- High School graduate with a minimum of an associate degree in civil engineering, construction or related field, or equivalent work-related experience. A higher degree in civil engineering from an accredited college or university is preferred. A Fundamentals in Engineering Certificate or other engineering, water collection, and sewer related licensure is also a plus.
- Organizing with the ability to prioritize work and exercise independent judgment, wisdom, common sense, and initiative.

REMARKS:

Signature of
Appointing Authority _____ Title_____

Agency _____ Prepared by _____

GIS Administrator – City of Quincy

The work involves responsibility for the design, development, implementation, operation, management, maintenance and expansion of the City of Quincy's Geographic Information System (GIS) infrastructure. The GIS Administrator will oversee the GIS program, both technically and administratively including selecting software and hardware systems, designing and implementing data and application development projects. The position requires other related professional or technical duties specific to the assignment such as planning activities, engineering activities such as modeling, creating and processing requests for maps, and/or maintaining computer networks and equipment specific to the GIS infrastructure. The work will be performed under the general supervision of the City Engineer and the Department of Public Works Commissioner with considerable leeway allowed for exercising independent judgment in carrying out the details of the work. Duties include:

- Coordinates the development and integration of GIS in various City departments;
- Develops agreements, contracts and systems for data acquisition and computer application development;
- Develops and maintains web-based GIS applications for spatial data delivery to City users and public via the internet;
- Supervises and oversees the conversion of CAD data and other digital and non-digital data to a GIS based system, including the field collection of data;
- Supervises the work of employees involved in GIS related development and projects including the inventory of municipal assets;
- Performs tasks to ensure that GIS data is compliant with standard GIS data design practices including creating meta-data sets and creating topologies to define the interrelations of the data;
- Disseminates geographic and other data to agencies, city departments and the public;
- Analyzes user needs for GIS and data applications;
- Trains other employees in the use of GIS;
- Creates and maintains written user manuals for the geographic information system;
- Processes requests for maps, obtains digital and non-digital data and creates maps;
- Researches, evaluates and selects software and technologies for the GIS; and
- Writes requests for proposals and technical specifications for the GIS.

GIS Software Specific Knowledge required:

- Demonstrated knowledge of GIS concepts and analytical techniques.
- GIS software tools and applications including but not limited to ArcGIS Pro, ArcMap 10.x, ArcSDE, ArcGIS Online, ArcGIS Server, Collector for ArcGIS, Survey123, and applications of MS Office 365.
- Advanced ArcGIS Desktop skills.
- SQL Server database queries and management, SQL Reporting Services
- Scripting or programming experience with Python.
- Experience with Cartography.
- Web-based programming, including ArcGIS REST and Python API.
- Experience conducting MassGIS Level 3 Parcel Certification.

Minimum Qualifications, Either:

a) Graduation from a regionally accredited college or university to grant degrees with a Master's degree in geography, planning, engineering or a closely related field with similar course curriculum, and three (3) years of full-time paid experience, or its part-time paid and/or volunteer equivalent, administering a Geographic Information System or other computerized mapping and assessment system; or

b) Graduation from a regionally accredited college or university to grant degrees with a Bachelor's degree in geography, planning, engineering or a closely related field with similar course curriculum, and five (5) years of experience as indicated in (a); or

c) An equivalent combination of training and experience as defined by the limits of (a) and (b).

Special Requirement: Possession of a valid driver license appropriate to the vehicles operated or otherwise demonstrated ability to meet the transportation needs of the job.

Please send cover letter and resume to Patricia McGowan, Human Resources Director, City of Quincy, 1305 Hancock Street, Quincy, MA 02169 or email to pmcgowan@quincyma.gov.

Thomas P. Koch
Mayor

Patricia A. McGowan
Director

City of Quincy,
Massachusetts
Office of Human Resources

CITY OF QUINCY
2021 MAY 25 PM 12:49
OFFICE OF THE COMMISSIONER OF HUMAN RESOURCES

NOTICE OF AVAILABLE POSITION
QPEA
(Quincy Public Employee's Association)
For Union Employees Only

TITLE: Principal Clerk I

DEPT: Sewer/Water/Drain

SALARY:

Start	Step 1	Step 2	Step 3	10 Years
$44,272	$45,482	$46,694	$47,894	$50,319

DATE: May 25, 2021

JOB REQUIREMENTS: Please see attached

Please sign and return this notice to the Human Resources Department by **Friday, June 4, 2021,** if you are interested in the position. All information below must be supplied. It is advised to attach a resume.

NAME (PLEASE PRINT)	DATE SIGNED	DEPARTMENT	EXTENSION

City Hall 1305 Hancock Street Quincy, MA 02169
Phone: 617-376-1065 Fax: 617-376-1520 TTY/TD: 617-376-1375
pmcgowan@quincyma.gov

POSITION DESCRIPTION, Form 30 Commonwealth of Massachusetts		POSITION TITLE CODE
1. POSITION TITLE: Principal Clerk I		CITY OR TOWN AND/OR AGENCY City of Quincy/SWD

2. APPROPRIATION OR AGENCY CODE	POSITION NO.	SALARY	DATE PREPARED 05/2021

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES:
Performs general clerical and specific (as listed below) clerical, administrative and billing duties. Strong computer skills and knowledge of specific software, and Microsoft Office as required.

4. SUPERVISION RECEIVED (NAME AND TITLE OF PERSON FROM WHOM INCUMBENT RECEIVES DIRECTION)

- Business Manager of Public Works
- Office Manager of Public Works
- Manager of Accounts, of Public Works

5. SUPERVISION EXERCISED (NAMES AND TITLES OF PERSONS SUPERVISED BY INCUMBENT)

6. DUTIES AND RESPONSIBILITIES

1. Process departmental payroll using the Minus system including maintaining accurate reports of contractual pay rates, anniversary dates, sick, vacation and personal time.
2. Provide accounts payable support to the W/S/D Division including entering requisitions and paying invoices.
3. Provide clerical support for the entire W/S/D Division
4. Assist in tracking and ordering supplies for the Department.
5. Assist in tracking and recording Black's Creeks tides, wind speed and expected precipitation consistent with the DPW tide gate policy
6. Provides front desk coverage in the Public Works Administrative and Water Billing Offices when necessary.
7. Assist and support the completion, filing and maintenance of all monthly tide gate reports.
8. Assist and support the completion, maintenance, updating and filing of all pump station maintenance logs.
9. Assist and support the completion, maintenance, updating and filing of all reports regarding Sanitary Sewer Overflows (SSO) Reports.
10. Assist and support the completion, maintenance, updating and filing of all reports regarding the truck wash station.
11. Responsible for the creation and management of various spreadsheets to track workflow including attendance, overtime, potholes, trenches, catch basin cleaning, pump station management, tide gate, leak reports and licenses.
12. Utilizes analytical skills to identify, track, and resolve residential inquiries and concerns.
13. Assists in departmental administrative functions such as purchase order processing etc
14. Performs other duties as required.

7. QUALIFICATIONS AND ENTRANCE REQUIREMENTS.
(Include required knowledge, abilities, and skills. Also specify entrance requirements such as experience and/or education).

- Associates degree or equivalent job experience required.
- Must be able to demonstrate proficiency with Microsoft Office software systems.
- Departmental payroll experience preferred.
- Must be able to work independently and with others in a cooperative manner.
- Must have strong verbal communication, written and math skills.

REMARKS:

Signature of
Appointing Authority _____ Title _____

Agency _____ Prepared by _____

Thomas P. Koch
Mayor

Helen M. Murphy
Director

City of Quincy,
Massachusetts
Office of Human Resources

NOTICE OF AVAILABLE POSITION

QPEA

(Quincy Public Employee's Association)

TITLE: Senior Clerk Typist I

DEPT: Sewer/Water/Drain

SALARY:	Start	Step 1	Step 2	Step 3	10 Years
	$35,392	$36,444	$37,471	$38,311	$40,463

DATE: October 31, 2013

JOB REQUIREMENTS: Please see attached

Please sign and return this notice to the Human Resources Department by **Tuesday, November 12, 2013,** if you are interested in the position. All information below must be supplied. **It is advised to attach a resume.**

NAME (PLEASE PRINT)	DATE SIGNED	DEPARTMENT	EXTENSION

City Hall 1305 Hancock Street Quincy, MA 02169
Phone: 617-376-1065 Fax: 617-376-1520 TTY/TD: 617-376-1375
hmurphy@quincyma.gov

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts
25M 2-90 D396218

POSITION TITLE CODE
N/A

1. POSITION TITLE:
Senior Clerk Typist I

CITY OR TOWN AND/OR AGENCY
City of Quincy/SWD

2. APPROPRIATION OR AGENCY CODE	POSITION NO.	SALARY	DATE PREPARED
N/A			10/13

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES:
Under the supervision of the Administrative Assistant or an employee of higher grade, performs moderately complex clerical duties; requiring a moderate degree of decision making and knowledge of the function of the department.

4. SUPERVISION RECEIVED (NAME AND TITLE OF PERSON FROM WHOM INCUMBENT RECEIVES DIRECTION)
Commissioner of Public Works Administrative Assistant
Superintendent of Public Works
General Foreman of SWD

5. SUPERVISION EXERCISED (NAMES AND TITLES OF PERSONS SUPERVISED BY INCUMBENT)
N/A

6. DUTIES AND RESPONSIBILITIES

1. Prepare requisitions, resolve billing problems and remit bills for payment from purchase orders.
2. Maintain office ledgers showing divisional departmental expenditures and prepare periodical reports of account balance.
3. Maintain contractual files.
4. File and maintain office files and records.
5. Prepare correspondence, memoranda, reports, spreadsheets and contracts as directed.
6. Shall answer and respond to in-person and telephone inquiries according to procedures and policies.
7. Assist in the Sewer/Water billing office as directed.
8. Provide assistance and support for Commissioners' office as directed.
9. Provide general support for Water, Sewer and Drain operations.
10. Work overtime as required and agreed.
11. Prepare reports on operational activities such as water main breaks, sewer back-ups and other departmental responses.
12. Assist in preparation of payroll and attendance as directed.
13. Perform other duties as directed.

7. QUALIFICATIONS AND ENTRANCE REQUIREMENTS
(Include required knowledge, abilities, and skills. Also specify entrance requirements such as experience and /or education).

- ❑ Proficiency in MS Office and Excel
- ❑ Knowledge of office clerical procedures.
- ❑ Working knowledge of purchase orders and requisitions is required.
- ❑ Ability to operate office equipment such as adding machines, copy machines, calculators, typewriters, computers and printers.
- ❑ Must be able to work alone or with others.
- ❑ Strong mathematical skill required.
- ❑ Written and verbal communication skills required.
- ❑ Ability to work with the public in a service oriented environment.
- ❑ Within six (6) months have a proficiency in MUNIS.

REMARKS:

Signature of
Appointing Authority _____ Title_____

Agency _____ Prepared by _____

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts

POSITION TITLE CODE

1. POSITION TITLE
HEAD PUMP STATION OPERATOR

AGENCY
CITY OF QUINCY/S/W/D

2. APPROPRIATION | POSITION NO. | REQUISITION NO. | SALARY | DATE PREPARED
10/13

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES

Oversee the City's Pump Stations including all electro-mechanical, mechanical and non-mechanical systems, including tide gates.

4. SUPERVISION RECEIVED (Name and title of person from whom incumbent receives direction)
Commissioner, Superintendent, General Supervisor (S/W/D) and Jr. Civil Engineer

5A. DIRECT REPORTING STAFF

PUMP STATION OPERATOR(S)

5B. THEIR STAFF

PUMP STATION ATTENDENT(S)

6. DETAILED STATEMENT OF DUTIES AND RESPONSIBILITIES

1. Oversee daily operation of pump stations including working with consulting engineers and maintenance contractors
2. Perform scheduled daily rounds to the City's major pump stations, Fort Square, Quincy Point, Roosevelt Road, the Strand, Alrick Road and Joyce Road, completing required log entries at each location.
3. Perform scheduled rounds to existing medium and light service pump stations, completing required log entries at each location.
4. Perform minor repairs to pumps and equipment as required;
5. Cleans and maintains wet wells as required.
6. Respond to all alarms twenty four hours/day seven days/week, in rotation with the Pump Station Operator and trouble shoot problems, taking corrective action including notifying necessary contractors.
7. Supervise Pump Station Operator(s) and Attendant(s).
8. Responsible for snow clearing and general exterior maintenance of all facilities.
9. Maintains and operates all (40+) mechanical, electromechanical and non-mechanical City tide gates including routine maintenance and inspections.
10. Responsible for monitoring and operating tide gates during emergency weather situations, including snow.
11. Responsible for ensuring compliance with DPW tide gate protocol.
12. Must be willing work overtime when needed.
13. Responsible for short and long range planning for repairs and upgrades to pumping stations and tide gates.
14. Must attend continuing education classes regularly and at the direction of the General Supervisor.
15. Responsible for reviewing and implementing the recommendations contained in the semi-annual tide gate inspection reports.

7. QUALIFICATIONS REQUIRED AT HIRE (List knowledges, skills and abilities)

Must possess a high school diploma
Must have a working knowledge of SCADA (Supervisory Control and Data Acquisition) system and other computer programs
Must have completed a certified confined space training program within the last year
Must have working knowledge of personal computers and tablets

8. QUALIFICATIONS ACQUIRED ON THE JOB (list knowledges, skills and abilities)

9. MINIMUM ENTRANCE REQUIREMENTS

10. LICENSE AND/OR CERTIFICATION REQUIREMENTS

Must possess a valid Massachusetts Commercial Driver's License Class B with tank and air brake endorsements.
Must possess a Massachusetts Department of Public Safety Hoisting Engineers License 2B and 4E
Must possess a Waste Water Systems Collection Certificate Grade 1 or higher.
Must possess a Massachusetts Grade 1 Drinking Water Supply Facilities Operator License

REMARKS

SIGNATURE OF APPOINTING AUTHORITY

TITLE

AGENCY

PREPARED BY

SIGNATURE INCUMBENT

DATE

SIGNATURES OF SUPERVISOR

DATE

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts

POSITION TITLE CODE

1. POSITION TITLE	AGENCY	
PUMP STATION OPERATOR	CITY OF QUINCY/S/W/D	
2. APPROPRIATION	POSITION NO. REQUISITION NO. SALARY	DATE PREPARED 2/14

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES

Oversee the City's Pump Stations including all electro-mechanical, mechanical and non-mechanical systems, including tide gates.

4. SUPERVISION RECEIVED (Name and title of person from whom incumbent receives direction)
Commissioner, Superintendent, General Supervisor (S/W/D) Jr. Civil Engineer, Head Pump Station Operator

5A. DIRECT REPORTING STAFF	5B. THEIR STAFF
Pump Station Attendant(s)	

6. DETAILED STATEMENT OF DUTIES AND RESPONSIBILITIES

1. Assist the Head Pump Station Operator with oversight of daily pump station operations.
2. Perform scheduled daily rounds to the City's major pump stations, Fort Square, Quincy Point, Roosevelt Road, the Strand, Alrick Road and Joyce Road, completing required log entries at each location.
3. Perform scheduled rounds to existing medium and light service pump stations, completing required log entries at each location.
4. Perform minor repairs to pumps and equipment as required;
5. Cleans and maintains wet wells as required.
6. Respond to all alarms twenty four hours/day seven days/week, in rotation with the Head Pump Station Operator and trouble shoot problems, taking corrective action including notifying necessary contractors.
7. Supervise Pump Station Attendant(s).
8. Responsible for snow clearing and general exterior maintenance of all facilities.
9. Assist in maintenance and operation of all (40+) mechanical, electromechanical and non-mechanical City tide gates including routine maintenance and inspections.
10. Responsible for monitoring and operating tide gates during emergency weather situations, including snow.
11. Responsible for ensuring compliance with DPW tide gate protocol.
12. Must be willing work overtime when needed.
13. Must attend continuing education classes regularly and at the direction of the Head Pump Station Operator.

7. QUALIFICATIONS REQUIRED AT HIRE (List knowledges, skills and abilities)

Must possess a high school diploma
Must have a basic knowledge of SCADA (Supervisory Control and Data Acquisition) system and other computer programs
Must have completed a certified confined space training program within the last year
Must have working knowledge of personal computers and tablets

8. QUALIFICATIONS ACQUIRED ON THE JOB (list knowledges, skills and abilities)

9. MINIMUM ENTRANCE REQUIREMENTS

10. LICENSE AND/OR CERTIFICATION REQUIREMENTS
Must obtain a Waste Water Systems Collection Certificate Grade 1 or higher within six months of hire
Must possess a Massachusetts Grade 1 Drinking Water Supply Facilities Operator License
Valid Class D Driver's License required.

REMARKS

SIGNATURE OF APPOINTING AUTHORITY

TITLE

AGENCY

PREPARED BY

SIGNATURE INCUMBENT

DATE

SIGNATURES OF SUPERVISOR

DATE

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts
25M 2-80 D396218

POSITION TITLE CODE

1. POSITION TITLE
Pump Station Attendant

CITY OR TOWN AND/OR AGENCY
City of Quincy/Sewer/Water/Drain

2. APPROPRIATION OR AGENCY CODE	POSITION NO.	SALARY	DATE PREPARED
N/A			

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES:

To maintain sewer and water pumping facilities or as assigned by

4. SUPERVISION RECEIVED (NAME AND TITLE OF PERSON FROM WHOM INCUMBENT RECEIVES DIRECTION)
Superintendent
General Foreman
Sewer Foreman
Pump Station Operator/Supervisor

5. SUPERVISION EXERCISED (NAMES AND TITLES OF PERSONS SUPERVISED BY INCUMBENT)
N/A

6. DUTIES AND RESPONSIBILITIES
1. Take scheduled readings on pump station recording instruments and enter them into logs ✓
2. Clean, inspect and lubricate machinery in pump stations on a routine basis ✓
3. Maintain the grounds surrounding pump stations and water tanks ✓
4. Read water meters, pressure gauges and flow recording equipment ✓
5. Perform skilled manual work in the installation, testing and adjustment of meters ✓
6. Must be willing to respond to emergency alarms ✓
7. Must be willing to work overtime when needed by the department ✓

NOTE: This formmust be submitted to the Division of Personnel Administration for every new position title in your jurisdiction, and for any substantive change in an established position

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts

POSITION TITLE CODE

1. POSITION TITLE
VIDEOTECHNICIAN

AGENCY
CITY OF QUINCY/S/W/D

2. APPROPRIATION | POSITION NO. | REQUISITION NO. | SALARY | DATE PREPARED

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES

Operate specialized equipment and perform technical and manual work functions associated with th examination of sanitary sewer line and storm drains.

4. SUPERVISION RECEIVED (Name and title of person from whom incumbent receives direction)
Superintendent, Operations Manager General Foreman, Forman, Working Foreman

5A. DIRECT REPORTING STAFF

58. THEIR STAFF

6. DETAILED STATEMENT OF DUTIES AND RESPONSIBILITIES

1. Operate TV inspection equipment to examine sanitary sewer and storm drain lines.
2. Operate gas monitor and other equipment used in sanitary sewer and drain maintenance and repair.
3. Set up traffic control equipment at work sites.
4. Maintain records of inspection data collected from T.V. inspection system.
5. Read and interpret blueprints.
6. Locate sanitary sewer and storm drain mains.
7. Assist in treatment of sanitary sewer and storm drain lines to prevent blockages.
8. Assist other work crews with repairing sanitary sewer and storm drain lines, installing sanitary sev er and storm drain lines, bcating manholes or other assistance as needed.
9. Prepares forms and reports as needed.
10. Responds to routine requests from officials, employees, staff, individuals and customer complair s and concerns regarding problems with sanitary sewer and drain lines.
11. Operate hand tools such, but limited too wrenches, pumps, saw, gas monitor, and metal detector, shovels, snow blowers,
12. Perform preventative maintenance on equipment.
13. Must be willing work overtime when needed.
14. Perform additional tasks as assigned by supervisors

7. QUALIFICATIONS REQUIRED AT HIRE (List knowledge, skills and abilities)

Must possess a high school diploma.

One year experience working with electronic equipment, and knowledge of computer application and techniques necessary in the completion of daily assignments..

Knowledge of pipeline construction illustrated by work experience or education.

Knowledge of the City of Quincy Water, Sewer, Drain policies and procedures as they pertain to the repair of sanitary sewer and storm drain mains, including generally the location of sanitary sewer lines and storm drains within the City's jurisdiction.

8. QUALIFICATIONS ACQUIRED ON THE JOB (list knowledge, skills and abilities)

Must be willing to attend confined space training with six (6) months of hire

9. MINIMUM ENTRANCE REQUIREMENTS

10. LICENSE AND/OR CERTIFICATION REQUIREMENTS

Must possess a valid Massachusetts Driver's License.

REMARKS

HEAVY WORK REQUIRED Must be able to lift 75 lbs consistently

SIGNATURE OF APPOINTI NG AUTHORITY

TITLE

AGENCY

PREPARED BY

SIGNATURE INCUMBENT

DATE

SIGNATURES OF SUPERVISOR

DATE

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts
25M 2-80 D396218

POSITION TITLE CODE
N/A

1. POSITION TITLE:
General Foreman - Water Department

CITY OR TOWN AND/OR AGENCY
Quincy/SWD

2. APPROPRIATION OR AGENCY CODE	POSITION NO.	SALARY	DATE PREPARED
N/A			

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES:

Under the direction of the Superintendent, oversee various programs including: Sewer, Water & Drain Permitting and Inspectional Services: The DPW Dig Safe Program; Leak Detection Training & Safety Programs; Pump Station Operation & Maintenance; Planned Development Review, Water Quality; Special Projects.

4. SUPERVISION RECEIVED (NAME AND TITLE OF PERSON FROM WHOM INCUMBENT RECEIVES DIRECTION)

Commissioner of Public Works, Superintendent, City Engineer and Operations Manager

5. SUPERVISION EXERCISED (NAMES AND TITLES OF PERSONS SUPERVISED BY INCUMBENT)

Foreman, Working Foreman, Equipment Operators, Laborers.

6. DUTIES AND RESPONSIBILITIES

Under the direction, supervision and instruction to the Commission of Public Works, the Superintendent and/or another of employee of high grade, shall:

1. Participate in the development, of maintaining and implementing written standard operating procedures, policies, employee training programs, emergence response plans, and safety programs to ensure efficient and safe operations of water distribution. Also, wastewater and storm water collections.
2. Supervise Water Quality Testing & Flushing Programs, Including the Meter Room and Water Distribution employees' programs and procedures.
3. Review permit applications and track until final occupancy permit is issued
4. Inspect sewer, water, & drain construction that is not being overseen by City Engineer.
5. Supervise SWD employees in the performance of O&M tasks such as, but not limited to, water service /main repairs, valve replacement and exercising, meter maintenance, gravity sewer and force main maintenance and repair, manhole repairs, pavement patching, installing services/mains, ect.
6. Operate various specialized equipment in the field and including office equipment such as a computer and laptop to access SCADA system.
7. Maintain statistical database of daily work orders.
8. Other wastewater and stormwater duties and responsibilities as required, including assisting the pump stations and tide-gate maintenance.
9. Must be willing to work overtime when needed by the Department of Public Works.
10. Must be able to work in various inclement weather conditions.
11. Communicate effectively, including by appropriately tracking activities, electronically, verbally and through written meads to supervisors, co-workers and the public.

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts
25M 2-80 D396218

POSITION TITLE CODE

1. POSITION TITLE:
Foreman

CITY OR TOWN AND/OR AGENCY
City of Quincy/SWD

2. APPROPRIATION OR AGENCY CODE	POSITION NO.	SALARY	DATE PREPARED
N/A			1/2021

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES:

Under the supervision of the Operations Manager, General Foreman and Superintendent will supervise employees of lower grades in the installation and maintenance of water mains, sewer lines and drains.

4. SUPERVISION RECEIVED (NAME AND TITLE OF PERSON FROM WHOM INCUMBENT RECEIVES DIRECTION)
Superintendent
General Foreman
Operations Manager

5. SUPERVISION EXERCISED (NAMES AND TITLES OF PERSONS SUPERVISED BY INCUMBENT)
Will supervise employees of lower grades in all department functions.

6. DUTIES AND RESPONSIBILITIES

Supervise the activities of a crew of mechanics, equipment operators, pipe layers, working foreman, water and sewer maintenance craftsmen, laborers, who are engaged in a particular phase of the activities in the department such as: construction and maintenance of sanitary sewers and storm drains; check to see that all pipe is laid to correct grade and all joints are made tight; manholes are built at correct stations, and all trenches are made safe by bracing and sheathing.

Inspects construction and repair work performed under contract to ascertaining compliance with City specifications. Keeps accurate records on progress of work. Assigns workers to duties.

During snow operations the foreman will assist in coordinating the snow removal operations consisting of:

1. Route assignments
2. Addressing complaints from concerned citizens
3. Keeping accurate time of all trucks and personnel
4. Inspecting snow routes for completeness
5. Other supervisory duties related to snow and ice, as required.
6. Maintain and repair tide gates

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts
25M 2-80 D396218

POSITION TITLE CODE

1. POSITION TITLE
Working Foreman Water/Sewer Maintenance Craftsman

CITY OR TOWN AND/OR AGENCY
City of Quincy/Sewer/Water/Drain

2. APPROPRIATION OR AGENCY CODE	POSITION NO.	SALARY	DATE PREPARED
N/A			

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES:

Supervise and performs skilled and semi-skilled work in the installation and maintenance of water distribution systems and sewer collection systems. Enforce on the job safety. Inspect work of laborers and maintenance men.

4. SUPERVISION RECEIVED (NAME AND TITLE OF PERSON FROM WHOM INCUMBENT RECEIVES DIRECTION)
Superintendent
General Foreman
Sewer & Water Foreman

5. SUPERVISION EXERCISED (NAMES AND TITLES OF PERSONS SUPERVISED BY INCUMBENT)
N/A

6. DUTIES AND RESPONSIBILITIES
1. Supervise up to a 3 man crew and participate in water & sewer repair and installation
2. The ability & licenses to use and operate all tools and equipment
3. Ensure on-site safety precausions are taken
4. Ensure all tools and equipment are kept clean and maintained
5. Read and interpret blueprints
6. Assist laborers in performing installation & repairs
7. Working overtime as required by the department (includes on call coverage)
8. Other duties as required
9. Submit written reports to supervisory staff when required

NOTE: This formmust be submitted to the Division of Personnel Administration for every new position title in your jurisdiction, and for any substantive change in an established position

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts
25M 2-80 D396218

POSITION TITLE CODE

1. POSITION TITLE:
Special Heavy MEO

CITY OR TOWN AND/OR AGENCY
City of Quincy/SWD

2. APPROPRIATION OR AGENCY CODE	POSITION NO.	SALARY	DATE PREPARED
N/A			

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES: Under general supervision, operates any piece of motor driven equipment that would be use for construction and maintenance of highways and utilities. Equipment includes but is not limited to trucks with a rated capacity of over 9 tons, backhoes, loaders, cable operated catch basin cleaners (such as STETCO), vacuum/hydro excavators (such as VACTOR).

4. SUPERVISION RECEIVED (NAME AND TITLE OF PERSON FROM WHOM INCUMBENT RECEIVES DIRECTION)
Superintendent/Operations Manager
General Foreman
Foreman

5. SUPERVISION EXERCISED (NAMES AND TITLES OF PERSONS SUPERVISED BY INCUMBENT)

6. DUTIES AND RESPONSIBILITIES:

1. The primary responsibility of this position will be the operation of STETCO and VACTRO equipment.
2. Excavate/backfill trenches with a backhoe.
3. Operate snow plows and road sanders.
4. Grease, oil and clean equipment.
5. Use equipment such as shovels, compressors, jackhammers and pumps typically used by the department.
6. Work on repairs to pipes and other malfunctions that may occur in the water/sewer/drain system
7. Must be willing to work overtime when needed by the department.
8. Other duties as required.

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts
25M 2-80 D396218

POSITION TITLE CODE
0390A

1. POSITION TITLE:
Water Sewer Maintenance

CITY OR TOWN AND/OR AGENCY
City of Quincy/SWD

2. APPROPRIATION OR AGENCY CODE	POSITION NO.	SALARY	DATE PREPARED
N/A			

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES:

Maintain sewer and water facilities and equipment as assigned by supervisor.

4. SUPERVISION RECEIVED (NAME AND TITLE OF PERSON FROM WHOM INCUMBENT RECEIVES DIRECTION)
Superintendent, General Foreman, Foreman

5. SUPERVISION EXERCISED (NAMES AND TITLES OF PERSONS SUPERVISED BY INCUMBENT)
N/A

6. DUTIES AND RESPONSIBILITIES:

1. Take scheduled readings on pump station recording instruments and enter them into logs
2. Clean, inspect and lubricate machinery on a routine basis
3. Maintain the grounds surrounding pump stations and water tanks
4. Read water meters, pressure gauges and flow recording equipment
5. Perform semi-skilled manual work in the installation of water services, meters and sewer services
6. Work within the department as assigned by supervisor
7. Must be willing to work overtime when needed by the department

NOTE: This form must be submitted to the Division of Personnel Administration for every new position title in your jurisdiction, and for any substantive change in an established position.

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts
25M 2-80 D396218

POSITION TITLE CODE
0390A

1. POSITION TITLE:
Water Sewer Maintenance Craftsman

CITY OR TOWN AND/OR AGENCY
City of Quincy/SWD

2. APPROPRIATION OR AGENCY CODE	POSITION NO.	SALARY	DATE PREPARED
N/A			

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES:
Under general supervision performs semi-skilled and skilled work in the installation and repair of sewer/water/drain systems and allied equipment; and does related work as required.

4. SUPERVISION RECEIVED (NAME AND TITLE OF PERSON FROM WHOM INCUMBENT RECEIVES DIRECTION)
Superintendent, General Foreman, SWD Foreman, Working Foreman

5. SUPERVISION EXERCISED (NAMES AND TITLES OF PERSONS SUPERVISED BY INCUMBENT)
Supervise a crew of less than 3 workers at a lower skill level such as laborers and maintenance personnel

6. DUTIES AND RESPONSIBILITIES:

1. Performs skilled and manual work in the construction, operation and maintenance of either water and/or sewer systems including work on water gates, sewers, side sewers, drains, main and connectors.
2. Lays and connects service pipes with street mains and meters.
3. Lays and connects sewer pipes.
4. Locates and repairs water or sewer leaks
5. Installs fire hydrants
6. Operates water gates.
7. Turns on water for new services
8. Inspects work of laborers and maintenance personnel to see that it conforms with specifications and blue prints.
9. Operates related motor equipment.
10. Supervise a crew of less than 3 workers as a lower skill level such as laborers and maintenance personnel.
11. Research water/sewer/drain records and mark out locations for dig safe.
12. Must be able to work overtime when needed by the department.
13. Takes apart and reassembles hydrants and valve mechanisms for the purpose of repairing worn or broken parts that cause leaks or other malfunctions.
14. Lubricates valves and adjust their settings.
15. Inspects hydrant rods, thrust plates, nozzles, packing and glands and other parts on a regular basis.
16. After fires, inspects hydrants to insure the water level is such that freezing will not occur and if freezing does occur, thaws out hydrant.
17. Others duties as required.

NOTE: This form must be submitted to the Division of Personnel Administration for every new position title in your jurisdiction, and for any substantive change in an established position.

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts
25M 2-80 D396218

POSITION TITLE CODE

1. POSITION TITLE:
Working Foreman, Special MEO

CITY OR TOWN AND/DEPARTMENT
City of Quincy/SWD

2. APPROPRIATION OR AGENCY CODE	POSITION NO.	SALARY	DATE PREPARED
N/A			

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES:

Supervise and work with a small group of workers at a lower skill level. Operate trucks with a rated capacity of more than 3 tons and up through 9 tons, large tractors and other equipment.

4. SUPERVISION RECEIVED (NAME AND TITLE OF PERSON FROM WHOM INCUMBENT RECEIVES DIRECTION)

General Foreman
Foreman

5. SUPERVISION EXERCISED (NAMES AND TITLES OF PERSONS SUPERVISED BY INCUMBENT)
N/A

6. DUTIES AND RESPONSIBILITIES:

1. Supervise laborers
2. Create work assignments
3. Enforce safety regulations
4. Maintain discipline of assigned crew.
5. Order supplies and equipment and review work of assigned crew.

(OVER)

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts
25M 2-80 D396218

POSITION TITLE CODE

1. POSITION TITLE:
MEO Laborer

CITY OR TOWN AND/OR AGENCY
City of Quincy/Sewer/Water/Drain

2. APPROPRIATION OR AGENCY CODE	POSITION NO.	SALARY	DATE PREPARED
N/A			

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES:
Under general supervision, performs a variety of unskilled labor duties in the maintenance and repair of sewer/water/drain systems. Operates trucks with a rated capacity under 3 tons.

4. SUPERVISION RECEIVED (NAME AND TITLE OF PERSON FROM WHOM INCUMBENT RECEIVES DIRECTION)
Superintendent
General Foreman
Water/Sewer/Drain Foreman
Water/Sewer/Drain Working Foreman

5. SUPERVISION EXERCISED (NAMES AND TITLES OF PERSONS SUPERVISED BY INCUMBENT)
N/A

6. DUTIES AND RESPONSIBILITIES

1. Operate vehicles with a rated capacity under 3 tons.
2. Use equipment such as shovels, compressors, jackhammers and pumps typically used by the department.
3. Grease, oil and clean equipment.
4. Must be willing to work overtime when needed by the department.
5. Other duties as required.

NOTE: This form must be submitted to the Division of Personnel Administration for every new position title in your jurisdiction, and for any substantive change in an established position.

(OVER)

7. QUALIFICATIONS AND ENTRANCE REQUIREMENTS.
(Include required knowledge, abilities, skills. Also specify entrance requirements such as experience and /or education).

Valid Massachusetts Drivers License
CDL License preferable.

REMARKS:

Signature of
Appointing Authority _____ Title _____

Agency _____ Prepared by _____

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts
25M 2-80 D396218

CORRECTION

POSITION TITLE CODE
3502A

1. POSITION TITLE	CITY OR TOWN AND/OR AGENCY
LABORER	QUINCY

2. APPROPRIATION OR AGENCY CODE	POSITION NO.	REQUISITION NO.	SALARY	DATE PREPARED

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES

Performs a variety of unskilled labor duties.

4. SUPERVISION RECEIVED (NAME AND TITLE OF PERSON FROM WHOM INCUMBENT RECEIVES DIRECTION)

General Foreman
Foreman

5. SUPERVISION EXERCISED (NAMES AND TITLES OF PERSONS SUPERVISED BY INCUMBENT)

N/A

6. DUTIES AND RESPONSIBILITIES

Duties include: digging holes, trenches, and other excavations; shoveling materials and leveling areas; cleaning out sewers and catch basins; loading and unloading supplies; moving furniture; cleaning litter and debris from streets, runways, parking lots; assisting in placing and holding heavy items in place; mowing grass using hand or powered equipment; trimming shrubs and lower parts of trees along sidewalks and highways; removing snow and ice using manual or small powered equipment; spreading sand on icy areas; performing laboring duties for skilled craftsmen but not as a Helper or Apprentice nor for the purpose of learning the trade. Uses standard hand tools, i.e., shovels, picks, axes, saws, heavy wrenches and small power tools.

NOTE: This form must be submitted to the Division of Personnel Administration for every new position title in your jurisdiction, and for any substantive change in an established position.

(OVER)

7. QUALIFICATIONS AND ENTRANCE REQUIREMENTS

(Include required knowledge, abilities, skills. Also specify entrance requirements such as experience and /or educations).

High School diploma or equivalency

REMARK

POSITION DESCRIPTION, Form 30
Commonwealth of Massachusetts
25M 2-80 D396218

POSITION TITLE CODE
0390A

1. POSITION TITLE:
Dispatcher – Tuesday through Saturday

CITY OR TOWN AND/OR AGENCY
City of Quincy/SWD

2. APPROPRIATION OR AGENCY CODE	POSITION NO.	SALARY	DATE PREPARED
N/A			

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES:
Under general supervision of the Superintendent of the Department of Public Works, monitor and respond to a variety of calls, prepare, prioritize and relay requests for service, provide direction to on site crews, monitor the SCADA System, utilize the automation, and perform office/clerical duties.

4. SUPERVISION RECEIVED (NAME AND TITLE OF PERSON FROM WHOM INCUMBENT RECEIVES DIRECTION)
Commissioner of Public Works
Superintendent – DPW
General Foreman

5. SUPERVISION EXERCISED (NAMES AND TITLES OF PERSONS SUPERVISED BY INCUMBENT)
Provide remote direction of on site work crews and private utility companies.

6. DUTIES AND RESPONSIBILITIES:

1. Monitor and respond to a variety of calls including two way radios, mobile radios and telephones; verify and monitor staff unit locations; record all service calls; prepare, prioritize and relay various requests for service including emergency situations.
2. Receive calls from the public and answer questions and provide information to the public; receive citizen requests and questions and route crews and manpower appropriately.
3. Remotely direct activities of site work crews.
4. Dispatches investigative work crews to field sites and receives calls from crews reporting findings including extent of damage to water sewer mains and related parts, repair work needed and level of priority based on crews reports.
5. Enter information into the computer system including work orders, system changes and messages. Utilize automation of dispatch process.
6. Prepare and maintain a variety of files and filing systems; prepare, maintain and update various records including work orders.
7. Contacts intergovernmental agencies and prepares request to obtain permits required for work crews to dig in the public way.
8. Reviews computerized records and hard copies of atlas pages and service plats. Provide crews with the location of water and sewer equipment.
9. Makes emergency notification to appropriate agencies and employees based on established protocols.
10. Receives notifications from the field of all personal injury, vehicle accidents and utility hits and forwards to proper individual and/or department.
11. Maintains contact with other city departments regarding operations impacting on water and sewer operations.
12. Provides information and updates to management personnel on the status of on-going emergency water and sewer repairs.
13. Performs after hours dispatch duties during storms, power outages, and/or other emergencies.
14. Assist in payroll operations.
15. Shall be required to work overtime as directed when available.
16. Required to perform other duties as assigned.

7. QUALIFICATIONS AND ENTRANCE REQUIREMENTS.
(Include required knowledge, abilities, and skills. Also specify entrance requirements such as experience and /or education).

- Valid Massachusetts drivers license
- Proficiency in MS Word, Excel, and Outlook as well as knowledge of modern office procedure (phone, fax, voicemail).
- Excellent communication skills including the ability to speak in a clear and audible voice and respond to requests and inquiries from the general public and coworkers with tact and courtesy.
- Within six (6) months have a proficiency in the monitoring of the SCADA control system.
- Proficiency in the operation of dispatch equipment.
- Oversight experience for the last (2) years. Greater than two (2) years preferred.
- The ability to work independently in an efficient manner with direction.
- Experience with "on-site" water main breaks, sewer backups and residential pumping.
- Demonstrate proficiency in establishing, updating and maintaining work orders in MUNIS or other software systems.

REMARKS:

Signature of
Appointing Authority_____Title_____

Agency_____Prepared by_____

POSI ION DESCRIPTION, Form 30
Cortmonwealth of Massachusetts
25M 2-80 0396218

POSITION TITLE CODE

1. POSITION TITLE
Working Foreman - Toolkeeper

CITY OR TOWN AND/OR AGENCY
City of Quincy/Sewer/Water/Drain

2. APPROPRIATION OR AGENCY CODE	POSITION NO.	SALARY	)r1A.TE PREPARED
N/A		:	

3. GENERAL STATEMENT OF DUTIES AND RESPONSIBILITIES:

Stock & inventory Sewer, Water & Drain supplies.
Preventive maintenace of small engine equipment such as pumps.
Maintenance of Specialty tools such as tap machines and pip cutters.

4. SUPERVISION RECEIVED (NAME AND TITLE OF PERSON FROM WHOM INCUMBENT RECEIVES DIRECTION)
Superintendent
General Foreman
Water/Sewer/Drain Foreman

5. SUPERVISION EXERCISED (NAMES AND TITLES OF PERSONS SUPERVISEO BY NCUMBENT)
N/A

6. DUTIES AND RESPONSIBILITIES
1. Operate pick-up tuck and flat-bed truck.
2. . Inventory & maintain all stock and tools used by the Sewer, water & Drain divisions.
3. Provides instruction in the use and maintenance of all tool..
4. Obtain price quotes and specifications for equipment & stock.
5. Must be able to assist crews to complete the task at hand if needed.
6. Must be willing to work overtime when needed by the department.
7. Other duties as required.

NOTE: This form ust be submitted to the Division of Personnel Administration for every new position title in your jurisdiction. and for any substantive change in an established position

1. QUALIFICATIONS AND ENTRANCE REQUIREMENTS.
(Include required knowledge, abilities, skills. Also specify entrance requirements such as experience and/or education).

Valid Massachusetts Class B Commercial Driver's License.

Minimum 3 years' experience with sewer, water and drain crews

This position requires presence five (5) days a week and during emergencies such as water main breaks, floods and sewer repairs.

Demonstrate a complete understanding of the crew's need of equipment and stock.

Use of personal computers preferred.

REMARKS:

Signature of
Appointing Authority _____ Title _____

Agency _____ Prepared by _____

APPENDIX C: DPW SAFETY TRAINING PROGRAM

APPENDIX D: CITYWORKS STANDARD OPERATING PROCEDURES

APPENDIX E: EMERGENCY RESPONSE PLANS

EMERGENCY RESPONSE PLAN FOR SANITARY SEWER OVERFLOWS (SSOs)

City of Quincy, MA

October 2021

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APPENDICES

1. INTRODUCTION

Sanitary sewer overflows (SSOs) are the result of a failure or obstruction in the City's sewer collection system. SSOs can be caused by structural pipe failures, clogged pipes, and/or hydraulic deficiencies. SSOs can threatening public health, become costly emergency repairs, lead to regulatory action, and damage the City's reputation. Preventing SSOs is a primary goal of the City of Quincy. However, if an SSO does take place, it is crucial to have a plan in place to effectively respond to the overflow in the field. This document outlines the Emergency Response Plan (ERP) for the Department of Public Works (DPW) during an SSO:

Step 1 – Preparation: Outline of the SSO Response Team, training, available equipment, and general notification procedures.

Step 2 – Field Response: Describes the procedures to make the affected area safe when responding to a sewer issue. The procedures to identify the cause of the sewer issue, to determine if sewer issue is an SSO, and how to properly address the issue.

Step 3 – Documentation and Reporting: Describes the information to be collected during an SSO event and the follow-up documentation to be completed by the City's Department of Public Works.

Step 4 – Follow Up: Team discussion of SSO event including procedures that could be improved.

The City is currently under a Consent Decree, issued by the Department of Justice on behalf of the U.S. Environmental Protection Agency (EPA), requiring that the City take steps to come into compliance with the NPDES Permit. The steps include reporting of all SSOs and this standardized Emergency Response Plan (ERP) to prevent and minimize the environmental and health impacts of SSOs.

1.1 DEFINITIONS

Blockage: Any obstruction that restricts flow in the City's collection system.

Building/Private Property Backup: Any release of wastewater from the City's Collection System into buildings or onto private property, except a release that is the result of blockages, flow conditions, or malfunctions of a building lateral or other piping conveyance system that is not owned or operationally controlled by the City, or is the result of overland, surface flooding, not emanating from the City's Collection System.

Collection System: The wastewater collection, storage, and transmission system (i.e., sanitary sewer system) owned or operated by the City, including, but not limited to, all devices, sewersheds, pump stations, force mains, gravity sewer lines, manholes, and appurtenances.

Municipal Separate Storm Sewer System (MS4): A conveyance or system of conveyances (including roads with drainage system, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) owned and/or operated by the City designed or used for collecting or, conveying stormwater, and discharging stormwater to receiving waters.

Sanitary Sewer Overflow ("SSO"): Any overflow, spill, diversion, or release of wastewater from, or caused by, the City's Collection System. SSOs include, but are not limited to discharges to waters of the United States from the City's Collection System, as well as any release of wastewater from the City's Collection System to public or private property that does not reach waters of the United States, including wastewater backups onto public streets and Building/Private Property Backups. SSOs do not include overflows, spills, diversions, or release on private property from systems or components that are not owned or operated by the City, and that are not caused by the City's Collection System.

Sewer Issue: Any call or request to the DPW for public or private sewer services.

2. SSO EMERGENCY RESPONSE PLAN

This SSO ERP was prepared to serve as a reference guide for the City's Department of Public Works (DPW) employees. The purpose is to document procedures for responding to sewers issues and SSOs and to meet the requirements set forth by the Consent Decree. This ERP provides standard procedures and a framework for the DPW to follow in the event of an SSO. DPW staff should familiarize themselves with this ERP, and should keep it updated, as procedures are refined and improved.

The objectives of this ERP are to:

- Protect the safety of the public and DPW employees.
- Minimize the volume and impact of the untreated wastewater discharged to the environment.
- Establish procedures to identify, respond, and halt all SSOs as rapidly as possible.
- Ensure appropriate mitigation measures are employed.
- Prevent the recurrence of SSOs at the same location.

To achieve these objectives, this ERP details a 4-step SSO response plan to be used for every SSO: preparation, field response, reporting, and follow up.

2.1 STEP ONE: PREPARATION

This section describes how to organize and equip a team to be ready to respond to an SSO and documents the procedure for notifying the public about what to do in the event of an SSO.

2.1.1 Response Team

DPW shall have a team in place that is prepared to mobilize and respond to sewer issues and SSOs in accordance with this ERP. By design, DPW staff should be trained sufficiently to fulfill multiple roles on the response team. See Appendix A for the DPW Organization Chart, current as of September 2021. The roles in the Response Team are listed below:

- Dispatcher: Receives the initial information for the sewer issue or potential SSO and logs the information. Dispatcher is then responsible for coordinating with the Supervisor to assemble the appropriate crew.
- Supervisor (Sewer/Water Engineer): The Supervisor is responsible for ensuring that the procedure is followed correctly, and the Response Team's actions comply with City, DEP, and EPA regulation. The Supervisor is responsible for identifying when a sewer issue is an SSO or when a sewer issue is due to privately owned plumbing/conveyance. Should the sewer issue be deemed an SSO, the Supervisor is responsible for submitting the 24-hour notification and 5-day SSO/Bypass Notification Form to the appropriate contacts.
- General Sewer/Water/Drain (S/W/D) Foreman: The General S/W/D foremen is responsible for the oversight of the Response Crew Foreman, and reviews procedures and documentation completed by the Response Crew Foreman.
- Response Crew Foreman: The Foreman is the SSO response crew leader. They are responsible for mobilizing the response team and making decisions about SSO mitigation strategies.
- Sewer, Water, and Drain (S/W/D) Response Crew: Depending on the severity of the SSO event, the Supervisor will decide how many staff people are needed to contain and stop the overflow. All DPW employees should be trained to perform this responsibility at a minimum.

The Supervisor and/or General Foreman will be responsible for assembling the team and identifying roles. During smaller overflow events, several of these roles can be taken on by one crew member. All crew members are to be properly trained for any role on the response team they are expected to fulfill. The SSO response team should consist of a minimum of two employees to ensure the safety of the workers while they are performing the work necessary to halt the SSO.

2.1.2 Training

Staff are to be properly trained to evaluate the cause of, and how to, safely contain SSOs. It is the Supervisor's responsibility to confirm that the SSO Response Crew receive the appropriate training for their job responsibilities.

DPW staff receive training from NEWWA, NEWEA, Mass Water Works, Bay State Roads, Confined space, MWPCA, the Health Department, and MWRA.

Staff receive training based on their job title and their roll on the SSO response team. Staff may receive safety training in first aid, CPR, and bloodborne pathogens, OSHA-10, confined space entry, asbestos cement handling, trench excavation, traffic control, competent person, house entry training, dementia training, rigging classes, chainsaws, lock-out-tag-out, and commercial driver's licenses as needed.

2.1.3 Equipment

Having the right equipment on hand is essential to a rapid and effective response. Inspect all ERP equipment quarterly or as required by manufacturer. Replace any damaged, missing, or expired equipment immediately. Make sure equipment is easily accessible and that the team knows how to use equipment and where to find it.

- Standard PPE: Traffic vests, high-vis coveralls, sharps-proof gloves, disposable nitrile gloves, work gloves, safety glasses and goggles, hard hats, steel-toed boots.
- Confined space entry equipment: Hoist, harnesses, and gas meters.
- Site safety/control: Cones, barrels, tape, construction fence, temporary signs, electronic signs (optional), portable light tower.
- Communication equipment: Cell phones, tablets, and/or radios.
- Bypass pumping equipment: Portable bypass pumping equipment, spare fuel, at least 50 feet of suction hose and 300 feet of lay flat hose, plus spare sections of each.
- Containment equipment: Sandbags and sand
- Cleaning equipment: The City owns one jet vactor trucks, two flushing/jet trucks, and one CCTV trucks (Aries). The DPW also utilizes two small push cameras for service lateral or other difficult to access locations.
    - The DPW currently uses Jet Power II (manufactured by IndusCO), a foaming agent attached to the jetter hose, to breakdown grease in known problem locations.
    - The DPW utilizes subcontractors to perform root control (chemical treatment and mechanical cleaning) in pipelines as needed.
- Additional heavy equipment for repairs requiring excavation: The DPW has the equipment and ability to perform open cut excavations for shallow repairs. Each situation is evaluated based on the complexity and the City will rely on an emergency excavation contractor to perform open cut excavations as needed at the direction of the Supervisor.

A list of emergency excavation and sewer cleaning contractors is located in Appendix B.

2.1.4 Public Notification

- During an emergency, residents can notify the S/W/D Division. Residents have access to the 24-hour emergency phone number: (617) 376-1910. This phone line must be always staffed.
    - This emergency number is located on the City's website and mailed to residents throughout the year as part of the DPW Info Letter.
- Once the sewer issue is appropriately remedied, the S/W/D Division will coordinate with the affected property owners directly.
- If the sewer issue is due to defective private infrastructure, the S/W/D Division will provide a list of licensed plumbers or insured contractors for the property owner to remedy their private property issue.

2.2 STEP TWO: FIELD RESPONSE

2.2.1 Assess the Situation and Secure the Site

- The dispatcher shall initially log in all sewer issues and communicate sewer issues to the General S/W/D Foreman. During the first shift the dispatcher is responsible for the log in of all sewer issues. During the second and third shifts the most senior employee shall ensure that a sewer issue is properly logged on the daily work log.
- The dispatcher shall enter all sewer issues into the computerized work order system.
- Upon arrival at the sewer issue site, assess the immediate danger to the public health or the environment.
- Prioritize response tactics. Identify which measures should be addressed first and which can wait. The Supervisor/Foreman should make these decisions based on the potential consequences. In general, the first priority of the operation should be to protect the safety of public and employees, and the second priority to protect the environment and property.
- The S/W/D crew shall assess the situation to determine how to secure the site where the sewerage release has occured:
    - Inspect the sanitary sewer main and other City-owned infrastructure that may have caused a release of sewerage in the area.
    - Identify the cause of the sewer issue. With the oversight of the General Foremen and/or Supervisor, determine if the cause of the sewerage release is due to City-owned/operated infrastructure, or due to a private plumbing or private sewer issue.
        - If the sewer release is due to defective privately owned plumbing/conveyance system, then provide the homeowner with a list of licensed plumbers and insured contractors.
    - If the sewerage release is due to City-owned/operated infrastructure, then the sewer issue is an SSO and must be reported by the Supervisor. Continue with the following items and alert the Supervisor so that they can become prepared for the necessary 24-hour documentation.
    - If the SSO occurred on private property, verbally request permission from the property owner to enter the property.
    - Visually determine where the sewage, if any, has released (e.g. bathtub, washing machine, basement, catch basin, backyard, etc.).
    - Visually estimate the volume of sewage, if any, that has released.

- Visually estimate the volume of sewage, if any, that has released to a nearby body of water or catch basin, if any.
- If not complete yet, confirm the specific defective infrastructure and the specific location and defect (such as roots, grease, pipe collapse, etc.) that caused the SSO.
- Take photographs of the property including any alleged private property damage, when possible.
- Report findings to the Supervisor for documentation (see Step Three).

- Secure the site. Set up a perimeter and traffic control to protect the public and the SSO Response Crew. Cordon off areas of ponded or flowing sewage to prevent public contact.

2.2.2 Contain and Stop the Overflow

- If it is imminent that wastewater will be released into wetlands or surface waters, set up floatation booms to contain grease and floating debris.
- If it is apparent that the SSO cannot be stopped or contained quickly, set up pump equipment and hoses from the upstream manhole to the nearest flowing manhole below the blockage. Use a vac truck to remove as much sewage as possible until pumping is established.
- Use the necessary equipment to relieve the blockage, typically by jet flushing up toward the blockage from the first free-flowing downstream manhole. Set up a trap and/or vacuum hose in the downstream manhole to catch debris.
- Work from the surface and avoid entering manholes if possible.
- Sandbag nearby stormwater catch basin inlets and other entrances to the separate stormwater system to prevent the sewer from entering the drainage system and contaminating receiving waters.
- Remove the debris from the sewer pipe or manhole. Examine the debris for clues to determine the cause of the blockage. Record any important information about the cause of the blockage.
- Use sandbags as needed to contain and channel sewage.
- Report findings to the Supervisor for documentation (see Step Three).

Based on the severity of the situation, the Supervisor shall call additional resources and subcontractors as necessary to correct the issue.

2.2.3 Clean Up

- Use the vac truck or pump to collect as much of any ponded sewage as possible and discharge to sewer.
- Use street sweeper, brooms, and/or vac truck to remove sewage-related debris and organic matter from the affected area. Avoid handling debris: use sharps-proof gloves if handling is necessary.
- Disinfect area as required. With PPE, spread disinfectant with a scoop or spreader.
- Flush the area with additional clean water. Use sandbags, vac truck, pumps and/or other means to contain and collect flushing water and direct it to combined or sanitary sewer.
- If the wastewater jeopardizes a park or other public facility, restrict public access until the issue has been remedied to the satisfaction of the local and/or state boards of health. Either cordon off the affected area or close the entire facility.
- Provide signage as required to notify the public of any remaining public health issue. If signage is not sufficient to properly notify the public, utilize local media: newspapers, television, or website to communicate the issue.

- Report findings to the Supervisor for documentation (see Step Three).

2.3 STEP THREE: DOCUMENTATION AND REPORTING

- The Dispatcher shall update the daily work log and the work order system to describe the cause of the sewer issue and the resolution of the sewer issue. During the second or third shifts this work shall be performed by the most senior employee.
- A S/W/D crew member shall fill out a sewer issue call form (Appendix C) to document their findings.
- The Foreman shall:
    - Review the sewer issue call form for completion and accuracy. The Foreman should identify if the sewer issue was an SSO.
    - Deliver the sewer issue call form to the General Foreman.
- General Foreman shall:
    - Review the sewer issue call form for completion and accuracy.
    - Deliver the sewer issue call form to the Sewer/Water Engineer at the end of each day or sooner if the sewer issue was an SSO.
    - Inform the dispatcher of the results of the investigation of the sewer issue (in the absence of the General Foreman this shall be completed by the On-Call Foreman).
    - If sewer issue call was deemed an SSO, additional reporting is necessary as outlined below.
- The Supervisor shall:
    - Report all SSOs as soon as possible, but no later than 1 day (24-hours) of SSO.
        - Notify the following regulatory authorities via email, providing all information available at the time. Refer to Section 3 of this report for contact information.
            - EPA's Water Compliance Section contact
            - MassDEP
            - City of Quincy Engineer
            - City of Quincy Health Department
            - DCR (when a beach, state park, or state road is impacted)
            - MA Divisions of Marine Fisheries (when a beach or waterway is impacted)
    - Within 5 days of SSO: Submit the MassDEP SSO/Bypass Notification Form (also known as the "5-Day Report", located in Appendix D) to the regulatory authorities listed above via email. The SSO/Bypass Notification Form shall contain all requirements of the Consent Decree as described below:
        - Date and time that the event began, if known, and was discovered by, or reported to the City, and date the event was stopped, or if it is continuing, a schedule of its termination.
        - The location, including nearest property address of each event.
        - The source of notification (property owner, field crew, police, etc.). Specifically identify if the SSO was reported by a Citizen (i.e., non-City staff member).

- The specific cause of the event (examples: debris, fats, oils, grease, roots, collapsed pipe, electrical, mechanical, or structural failure, hydraulic issues, etc.).
- The estimated gallons of wastewater released, and the method used to estimate the volume.
- Clear statement of whether or not the release entered a stormwater catch basin or any other portion of the City's MS4.
    - If the release occurred to the ground or street, regardless of whether the discharge entered any portion of the MS4, the City shall provide a location and the distance to the nearest down gradient stormwater catch basin and the name of the receiving water to which the catch basin discharges.
- Clear statement of whether the release did or did not enter any surface water.
    - If sewer entered any surface water – provide name of surface water and description of where the sewer entered.
- The identification of any surface water that received discharge from the SSO either directly or indirectly through the MS4.
- The estimated gallons of wastewater discharged to the MS4 or surface water either directly or indirectly through the MS4.
- The measures taken to stop the overflow and decontaminate the area affected by the overflow
- The measures taken to prevent future overflows at the same location.
- The date the overflow was reported to EPA and MassDEP.

- City shall maintain all reporting records for a minimum of five (5) years.

2.4 STEP FOUR: FOLLOW UP

- Conduct a short debrief with the SSO Response Crew on what went well and improvements for the next response.
- Clean, inventory, and replenish field supplies.
- Short Term Corrective Action: The Supervisor should schedule corrective action work orders to finish any tasks not completed in the immediate field response, such as additional sewer cleaning, root removal, pipe repair, site restoration, etc.
- Long Term Corrective Action: At least once per year, the DPW should perform programmatic assessment of SSO events. Use the data collected and maps generated to look for patterns. Consider, CCTV inspection results and other information to identify habitual causes such as structurally failing pipes or reoccurring grease/root blockages, etc. Incorporate results into capital improvement planning or targeted preventative maintenance as necessary.
- ERP Update: At least once per year, the DPW should review this ERP to address changes in staffing, training needs, contact information, agency reporting requirements, etc. Descriptions of procedures should also be updated to reflect modifications and improvements.

3. CONTACT INFORMATION

EPA Water Compliance Section

Todd Borci
Enforcement Officer
Enforcement and Compliance Assurance Division
U.S. Environmental Protection Agency
5 Post Office Square – Suite 100
Mail Code 04-4
Boston, MA 02109-3912
Borci.Todd@epa.gov
617-918-1870

Massachusetts Department of Environmental Protection (DEP)

Kevin Brander
Section Chief
Wastewater Management Section
Massachusetts Department of Environmental Protection
Northeast Region
205B Lowell Street
Wilmington, MA 01887
kevin.brander@state.ma.us
978-694-3215

David Butler
Environmental Engineer
Northeast Region
205B Lowell Street
Wilmington, MA 01887
David.r.butler@state.ma.us
978-694-3242

MassDEP 24-hour Emergency Line: 1-888-304-1133

City of Quincy: Inspectional Division – Environmental Sanitation/Health

Timothy Marble, R.S.
Chief Sanitarian
tmarble@quincyma.gov
617-376-1276

Department of Conservation and Recreation (DCR)

State House Ranger Base (when state beaches and parks are impacted):
617-722- 1188

MA Division of Marine Fisheries

Boston/Northeast (when shellfish resources are impacted):
617-727-3336 ext. 165

APPENDIX A: DPW ORGANIZATION CHART

DPW ORGANIZATION CHART SEPT. 2021

COMMISSIONER — A. GRAZIOSO

CITY ENGINEER — P. COSTELLO

SUPT. OF H/S/W/D — L. PRENDEVILLE

Engineering Division

GIS ADMIN. — S. WASHBURN — E

PROJECT MGR. — M. KINTOGOS — E

GIS TECH. — J. DEVIN — E

SR. DRAFTSPERSON — N. GAVAZA — E

ADMIN. SEC. — T. BOSSART — E

SR. ENG. GR. 4 — J. GUARINO, C. TSANG, D.GIANNANDREA — E

JR.CIV.ENG.GR.3 — J. VRADENBERG, J. CASSERLY, B. TARIYO — E

EIT — M. THOMPSON — E

JR. CIV. ENG.GR.3 — M. VIALPANDO — E/S/W

Billing Operations

BUSINESS MGR. — N. MCCOLE

MGR. OF ACCOUNTS — K. MCALDUFF — S/W

HEAD CLERK — H. DONOVAN — S/W/D

OFFICE MGR. — B. DONAGHEY — S/W

W/S BILLING SPEC. — D. HANLY — S/W

PRINC. CLERK I — L. KENNEY, L. GRIMMETT — S/W

SR. CLERK II — P. REARDON, J. JAEHNIG (3 POSITONS) — S/W

OPERATIONS MGR. — M. NORTON

ADMIN. SEC. — J. ELTOURY

RECEPTIONIST — J. JAEHNIG

GENERAL FOREMAN S/W/D — C. NEWTON, J.MASTROIANI

DISPATCHER — N. BALL, C. DETOMA — S/W/D

SR. CLERK TYP. II — T. RYAN — S/W/D

S/W/D DIVISION

METER FOREMAN — B. WRIGHT — S/W

WF SPEC. HVY. MEO — S. KOSLOWSKI — S/W/D

WATER SERV. INSP. — ? G. DIBELLA — W

METER REPAIR — E. DONOVAN, K. GALLIGAN, S. HICKEY, C. LUMAGHINI — S/W

METER READER — J. MULLEN — W

SPEC. HVY. MEO — M. SHAW, J. FRAWLEY, S. BRADLEY, G. COOPER, D.BROADBENT, S. ALDEN, A. MORANO — S/W/D

LABORER — L. MACMACKEN, T.McCORMACK (2 POSITIONS) — S/W/D

PIPE LAYER BRACER — B. JOHNSON — S/W/D

SEWER FOREMAN — VACANT — S/W

WF W/S MAINT. MAN — F. McCARDLE — S/W/D

W/S MAINT. CRAFTSMAN — E. McCORMACK *, C. ELLIS, E. WOOD, S. MALOOF — S/W/D

HVY. MEO I — S. STORER, S.PACCIORETTI, E. PHINNEY, A. LEWIS — S/W/D

MOTOR EQUIP. REPAIR — T. MARBLE — S/W/D

LABORER MEO — P.McNAMARA, D. McGRATH, R. HARRINGTON — S/W/D

W/S MAINT. MAN — A. GWYNN — S/W/D

WATER FOREMAN — S. BRENNION — S/W

WF TOOLKEEPER — VACANT — S/W/D

DRAIN FOREMAN — VACANT — S/W

WF W/S MAINT. CRAFTSMAN — A. VALENTINO, E. ROWAN, E. MALAMES — S/W/D

WATER DIST. SUPERVISOR — VACANT — S/W

SR. WATER SERVICE INSP. — M. CAPORALE, J. SPADORCIA, VACANT — S/W/D

LEAK DETECTION SUPERVISOR — B. PEKINEN — S/W

LEAK DETECTOR — J. BERGSTROM — W

PUMP STA. OPERATOR — R. WRIGHT — S/W/D

PUMP STA. ATTENDANT — J. MARIANO — S/W/D

CUSTODIAN — P. SKARZENSKI

HEAD PUMP STA. OPERATOR — D. TAMULIS — S/W/D

VIDEO TECH. — J. McCUE — S/W/D

PROGRAM MGR. — T. HENRY

RECYCLE COOR. — M. McGOWAN

Waste Mgmt. Division

GEN. FOREMAN HIGHWAY — E. LEARY, F. MAHER

Highway Operations

FOREMAN — K. WOOD, S. MANOLAKIS, K.JOHNSON

WF SPEC. MEO — T. KOELCH V, S. PHILBROOK, T. MACKAY, D. SOLOMINI

HVY.MEO MASON — B. HARD, VACANT, VACANT

MASON — M. MORMINO, P. LINEHAN

CARPENTER — J. LEE

HVY. MEO — J. FLAHERTY, F. DONAHUE, T. DELANEY, M. COULSONE, VACANT

MEO LABORER — B. NOONAN, T. BARRY, E. HARVEY, M. ROUTIER, S. EWING, R. KELLEY, P. CONLEY

SPEC. MEO — B. CHASE, J. GREENE ?, C. PLACE, R. QUIGLEY, S. BUONOPANE, A. LIO, J. MORRIS, VACANT, VACANT

WF/LAB./ GARDENER — VACANT

GARDENER/ LABORER — R. GREGORY, C. LOGAN, D. JOYCE, T. KEEF, D. ORIOLA

FOREMAN MER — P. DEVEREAUX

MOTOR EQUIP. REP. II — C. BERGSTROM, J. BOLAND, W. EAGLES

HVY. MEO HIGH PRESSURE — D. McCARTHY

131 EMPLOYEES

9/10/2021

APPENDIX B: EMERGENCY SEWER CONTRACTOR LIST

Cleaning & Maintenance Contractors		
Company Name	**Services Provided**	**Contact #**
Underground Technologies	Video Inspection, Cleaning (vacuum truck)	(617) 471-7077
East Coast Pipelines	Video Inspection, Pipe Lining, Drain Cleaning	(781) 267-5091
Boston Pipe Lining	Pipe Lining	(603) 508-9863
Podgurski Corporation	Cleaning (vacuum truck & pump truck)	(781) 828-0821
Soares Sanitation and Pumping	Cleaning (vacuum truck & pump truck)	(508) 824-8370
Clean Harbors	Cleaning (pump Truck), Hazardous Materials Cleanup	(781) 849-1800
Rapid Flow	Cleaning (vacuum truck)	(617) 799-4444
Bostonian Restoration	Cleaning & Restoration	(781) 356-3303
Weston & Sampson Engineers	Pump Station - Engineering Services	(978) 815-1439
J. Hoadley	Plumbing	(781) 878-8098

Open Cut Repairs (Excavation)		
Company Name	**Services Provided**	**Contact #**
Sean Farrell Excavating	Equipment Rentals	(617) 293-7660
ATS Equipment	Pump Rentals	(617) 825-3600
C. Naughton	Equipment Rentals	(617) 653-0947
Granese & Sons	Water, Sewer, Drain Repair	(781) 576-9060
Ferguson	Pipe Supplies	(781) 828-1350
Core and Main	Pipe Supplies	(781) 407-9134

APPENDIX C: SEWER ISSUE CALL FORM

INTERIOR/EXTERIOR SEWER ISSUE CALL

Address: _____

Date: _____

Time Reported: _____

Time cleared: _____

1. **Did sewage flow out of the clean out or any other interior pipe in the home?**

   ☐ **YES** ☐ **NO**

If YES, proceed to question 2. If NO, proceed to question 9.

2. If sewage flowed in the interior of the home was the amount that overflowed more than one (1) gallon?

   ☐ YES ☐ NO

3. Where did the sewage flow? (be specific)

   _____
   _____
   _____

4. In your best estimate, how much sewerage left the pipe or cleanout?

   ☐ 1 gallon or less ☐ 1-5 gallons ☐ 5- 20 gallons ☐ greater than 20 gallons

5. What was the cause of the issue?

   ☐ Rain Event ☐ Pump Station Failure ☐ Pipe Collapse (LATERAL/MAIN) (Select one)

   ☐ Insufficient Capacity in System ☐ Treatment Unit Failure

   ☐ Sewer System Blockage (LATERAL/MAIN) (Select one) ☐ Root Intrusion (LATERAL/MAIN) (Select one) ☐ Grease Blockage (LATERAL/MAIN) (Select one)

   ☐ Inside Problem ☐ Other, specify: _____

6. If sewage flowed outdoors, did the sewerage flow to any of the following:

☐ Ground surface ☐ Direct Receiving Water ☐ Catch Basin

7. If sewage flowed to a Direct Receiving Water or a Catch Basin, identify the body of water impacted by the release:

_____
_____
_____

8. What corrective actions did you take, if any, to remedy the sewer issue?

_____
_____
_____
_____

Name of Employee Completing Form: _____

WSD Foreman: _____

WSD General Foreman: _____

9. **Did sewage escape the pipe or manhole?**
☐ **YES** ☐ **NO**

10. In your best estimate, how much sewerage left the pipe or cleanout?

☐ Less than 5 gallons ☐ 5-20 gallons ☐ greater than 20 gallons

11. What was the cause of the issue?

☐ Rain Event ☐ Pump Station Failure ☐ Pipe Collapse

☐ Insufficient Capacity in System ☐ Treatment Unit Failure

☐ Sewer System Blockage ☐ Root Intrusion ☐ Grease Blockage

☐ Other, specify: _____

12. Did the sewerage flow to any of the following:

☐ Ground surface ☐ Direct Receiving Water ☐ Catch Basin

13. If sewage flowed to a Direct Receiving Water or Catch Basin, identify the body of water impacted by the release:

_____
_____
_____

14. What corrective actions did you take to remedy the sewer issue?

_____
_____

15. Please attach any applicable sewer plans.

Name of Employee Completing Form: _____

WSD Foreman: _____

WSD General Foreman: _____

APPENDIX D: MASSDEP SSO/BYPASS NOTIFICATION FORM

Massachusetts Department of Environmental Protection
Bureau of Water Protection – Wastewater Management Program

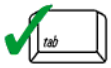
Sanitary Sewer Overflow (SSO)/Bypass Notification Form

FOR DEP USE ONLY

Tax Identification Number

A. Reporting Facility

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Facility Information

Reporting Sewer Authority _____ Permit # _____

2. Authorized Representative Transmitting Form:

First Name _____ Last Name _____ Telephone No. _____

Title _____ E-mail Address _____

B. Phone Notifications:

See DEP Regional Office telephone and fax numbers at the end of this form.

1. **MassDEP staff** contacted: first name _____ last name _____

   Date/Time contacted: Date _____ Time _____ ☐ am ☐ pm

2. **EPA staff** contacted: first name _____ last name _____

   Date/Time EPA contacted: Date _____ Time _____ ☐ am ☐ pm

3. Board of Health contacted: First Name _____ Last Name _____

   Date/Time contacted: Date _____ Time _____ ☐ am ☐ pm

4. Others notified (select all that apply); ☐ Conservation Commission

   ☐ Harbormaster ☐ Shellfish Warden ☐ Division of Marine Fisheries

   ☐ Downstream Drinking Water Supplier ☐ Watershed Association

   ☐ Beach Resource Manager ☐ Other: _____ (specify)

C. SSO Information

1. SSO Discovered: Date _____ Time _____ ☐ am ☐ pm

   By: _____

2. SSO Stopped: Date _____ Time _____ ☐ am ☐ pm

3. SSO Discharge from: ☐ Sanitary Sewer Manhole ☐ Pump Station

   ☐ Backup into Property ☐ Other: _____ (specify)

4. SSO Discharge to: ☐ Ground Surface (no release to surface water)

   ☐ Direct to Receiving Water _____ (surface water)

   ☐ Catch basin to Receiving Water _____ (surface water)

   ☐ Backup into Property Basement

Massachusetts Department of Environmental Protection
Bureau of Water Protection – Wastewater Management Program

Sanitary Sewer Overflow (SSO)/Bypass Notification Form

FOR DEP USE ONLY

Tax Identification Number

C. SSO Information (cont.)

Location: _____
(Description of discharge site or closest address)

5. Estimated SSO Volume at time of this Report: _____

   Method of Estimating Volume: _____

6. Cause of SSO Event:

   ☐ Rain Event ☐ Pump Station Failure ☐ Insufficient Capacity in System

   ☐ Treatment Unit failure

   ☐ Sewer System Blockage: ☐ Pipe Collapse ☐ Root Intrusion ☐ Grease Blockage

   ☐ Other: _____
   (Specify)

7. Corrective Actions Taken:

   _____

   _____

   _____

   _____

   Impact Area cleaned and/or disinfected: ☐ Yes ☐ No

   _____

   _____

   Corrective Actions Completed: ☐ Yes ☐ No

   _____

D. Comments/Attachments/Follow-up

I wish to provide (select all that apply):

☐ Attachment ☐ Additional comments below: ☐ No additional comments or attachments

Additional comments and planned actions:

_____

_____

_____

Massachusetts Department of Environmental Protection
Bureau of Water Protection – Wastewater Management Program

Sanitary Sewer Overflow (SSO)/Bypass Notification Form

FOR DEP USE ONLY

Tax Identification Number

E. Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Authorized Representative

Date Signed

Please keep a copy of this report for your records. When submitting additional information, include the MassDEP Incident Number from this report.

MassDEP Regional Office and EPA Telephone and Fax Numbers:

Northeast Region	Phone: 978-694-3215	Fax: 978-694-3499
Southeast Region	Phone: 508-946-2750	Fax: 508-947-6557
Central Region	Phone: 508-792-7650	Fax: 508-792-7621
Western Region	Phone: 413-784-1100	Fax: 413-784-1149
EPA	Phone: 617-918-1510	
EPA for Southeast Region, David Turin	Phone: 617-918-1598	Fax: 617-918-0598
EPA for Northeast, Central and Western Regions, Douglas Koopman	Phone: 617-918-1747	Fax: 617-918-0747
DEP 24-hour emergency	Phone: 888-304-1133	


1625 1640 1792
MANET
QUINCY
1888

NOTE TO USERS OF THIS ERP

This Emergency Response Plan outlines response protocols for pump station and force main failures at the Quincy Point Pump Station

For response to emergencies of a different nature, please see the following other documents (list not comprehensive):

City of Quincy, Massachusetts
All-Hazard Mitigation Plan

and

Quincy Water, Sewer, and Drain Department
Emergency Response Plan (ERP) & Annex

TABLE OF CONTENTS

1.0 INTRODUCTION

1.1 Purpose, Objectives, and Goals

Emergency conditions can be imposed on a wastewater facility by strikes, civil disorders, equipment failures, etc. Emergency planning is essential to ensure continued effective operation during emergencies. This Emergency Response Plan (ERP) is an operational document that describes procedures to be taken by the Quincy Water, Sewer & Drain Department (WSD) in the event of a failure or other emergency at the Quincy Point Pump Station or its 20-inch force main. This document has been created to ensure that for every reported problem, the appropriate crews are dispatched for response and the appropriate response actions are taken to address each incident. Emergency response procedures cover a wide range of potential problems that might cause wastewater service interruptions including, but not limited to extreme storm events, pipe breaks, pump or equipment failure, vandalism, and third party events.

The primary focus of this ERP is to outline standard operating procedures for response to reported problems in an effort to prevent the release of untreated wastewater to the environment or, in the event that a release does occur, ensure that the City responds to and halts it as quickly as possible. Prompt and clear action will prevent or minimize the volume of untreated wastewater released to the environment, as well as the associated impacts of that release. In addition, the ERP emphasizes procedures to report and document the release and take other actions as appropriate. The primary objectives of the ERP are to:

- Protect public health, the environment, private/public property, and City personnel/infrastructure
- Satisfy regulatory requirements
- Standardize procedures for managing pump station and force main failures, and for the minimization and mitigation of any resulting release of wastewater
- Provide good customer service

This ERP is intended to supplement and be consistent with existing emergency plans and standard operating procedures.

1.2 Sanitary Sewer Overflows

The accidental release of wastewater from a collection system is called a Sanitary Sewer Overflow (SSO). The U.S. Environmental Protection Agency defines a SSO as an "occasional unintended discharge of raw wastewater from a sewage system." This typically includes overflows from manholes, pump stations, and siphons; back-ups into basements; and releases due to pipeline failure. Even properly operated and maintained collection systems can experience an occasional SSO, but frequent or recurring SSOs typically indicate a problem. Problems that can cause chronic SSOs include, but are not limited to excessively high flows due to Infiltration and Inflow; inadequate capacity of sewers and/or pumps to convey wastewater flows; broken, settled, or defective sewer pipes; equipment or power failures at pump stations; sewers that become obstructed by tree roots or debris; and vandalism.

Because SSOs contain raw sewage they can carry bacteria, viruses, protozoa (parasitic organisms), helminthes (intestinal worms), and borroughs (inhaled molds and fungi). The diseases they may cause range in severity from mild gastroenteritis (causing stomach cramps and diarrhea) to life-threatening ailments such as cholera, dysentery, infections hepatitis, and severe gastroenteritis. For this reason, SSOs are considered a serious threat to public health. Since pump station and force main failures can result in numerous and large-volume SSOs, discussion about SSO prevention, mitigation, and cleanup is an integral part of this ERP.

2.0 DESCRIPTION OF FACILITIES

2.1 Quincy Point Pump Station

The Quincy Point Pump Station, on which this ERP focuses, is located at the intersection of Chubbuck Street and Des Moines Road. It serves an area of roughly 400 acres approximately bounded by Sumner Street to the west, Washington Street to the north, Quincy Avenue to the south, and the Weymouth Fore River to the east. Land use in the tributary area is primarily residential, with some limited commercial and industrial, and also the former Fore River ("Quincy") Shipyard. The collection system tributary to the pump station consists of approximately 50,300 linear feet of gravity sewer ranging in diameter from six inches to 27 inches. Figure 1, on the following page, shows the sewer service area for the station.

The pump station is a multi-level structure with one at grade and two levels below. The station is a custom dry pit/wet pit pumping facility. The station has three vertical-coupled centrifugal, two-speed pumps operated in a lead/lag/standby configuration. The peak pumping capacity is approximately 7 million gallons per day (MGD) with two pumps operating in parallel and one pump in reserve. Average daily flow currently ranges between 0.6 and 0.7 MGD.

Electrical power is supplied to the pump station via an overhead high voltage service (site service pole with pole-mounted electric service transformers) to an underground service to the building. Electrical feed is divided in two by dual power busses, with each half able to operate with either normal utility service or the standby generator, and allowing half the pumping capacity in the event of a failure of the electrical equipment and/or power feeders. In the event of a power outage, the pump station is equipped with a diesel generator and automatic transfer switches designed to operate two pumps plus the building's lights, receptacles, instrumentation and controls, fans, heat, sump pumps, etc.

2.2 Quincy Point Force Main

The force main discharge from the Quincy Point Pump Station is 20-inch ductile iron pipe installed in 1971 (see Figure 2, attached, for the force main's record drawings). Approximately 10,670 linear feet in length, the force main travels from the pump station west on Des Moines and South streets, cross-country through a housing complex from Southern Artery to Martensen Street, west on Martensen Street to Scammell Street, cross-country through a residential property to Dysart Street, west on Dysart Street, north and cross-country through a residential property and park to Elm Street, north on Elm Street and Elm Place to Newcomb Street, west on Newcomb Street and Woodward Avenue, and discharges to the 11-foot by 18-foot brick Massachusetts Water Resource Authority (MWRA) high level gravity sewer at Greenleaf Street. Access points along the force main include the following:

Air release valves:
- Southern Artery (aprx. station 15+20)
- #25 Martensen Street (aprx. station 42+00)
- #184 Elm Place (aprx. station 76+50)
- Newcomb & Coddington Streets (aprx. station 89+50)

Six-inch blow offs with valves and discharge to adjacent gravity sewers:
- Southern Artery (aprx. station 16+00)
- #44 Dysart Street (aprx. station 55+50)
- #30 Newcomb Street (aprx. station 84+00)

20-inch by 20-inch Tee:
- Sewer manhole adjacent to the force main discharge at Greenleaf Street (approx. Sta 106+67)

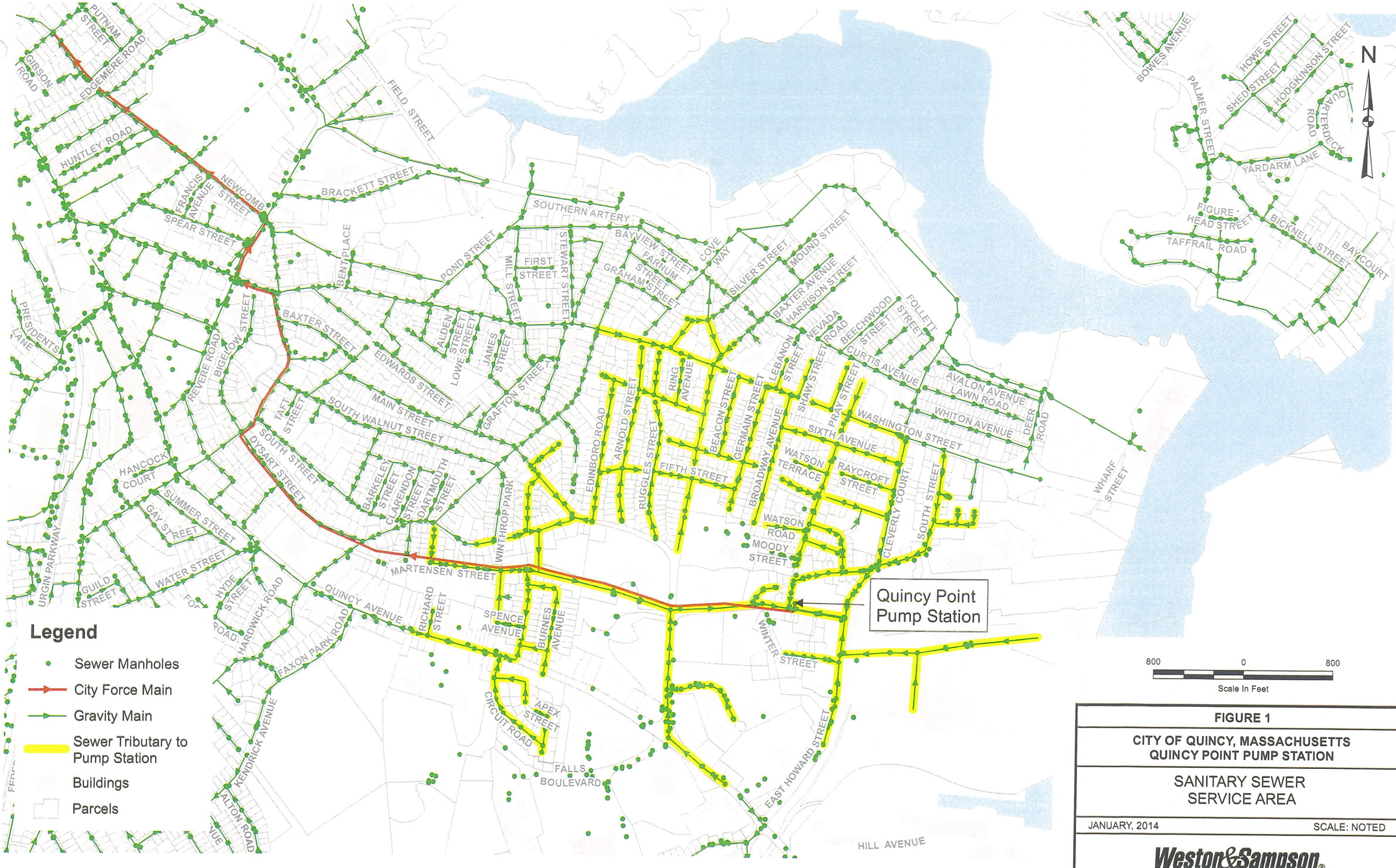


FIGURE 1

CITY OF QUINCY, MASSACHUSETTS
QUINCY POINT PUMP STATION

SANITARY SEWER
SERVICE AREA

JANUARY, 2014 SCALE: NOTED

Weston&Sampson®

<BOL>Path:</BOL> \\gisdata\arcgis\DataStore\Client\Quincy MA\Project\2130441-Quincy Point forcemain\Quincy\PL W&C\Data\Eval_800scale.mxd <BOL>User:</BOL> laptowp <BOL>Saved:</BOL> 1/9/2014 10:43:47 AM <BOL>Opened:</BOL> 1/9/2014 10:43:58 AM

3.0 FACTORS INFLUENCING EMERGENCY RESPONSE

3.1 Sanitary Sewer Overflow Receptors

Once it exits the wastewater system, untreated waste from SSOs flows into our living and natural environment. This typically includes, but is not limited to: basements, streets and sidewalks, catch basins and storm drains, low lying areas, wetlands, and surface waters. The proximity of an SSO to sensitive public health and environmental areas is a factor in response actions. Should an SSO result from failure of the Quincy Point Pump Station or its force main, the most likely receptors would include:

- Basements in the service area
- Local low-lying areas
- The Town River Bay via the stormwater collection system

An understanding of location and risk potential associated with these SSO receptors is necessary to ensure the proper execution of an overflow response.

3.2 Site Accessibility

Site accessibility is an important factor in determining the response to an SSO. In cross-country areas, especially wetlands, it can be difficult to access the wastewater collection system with needed personnel and equipment, significantly increasing the duration and volume of the SSO discharge. The Quincy Point Pump Station is relatively easy to get to with vehicles and equipment. The 20-inch force main has a few cross-country segments; however, this is not the primary concern. Similar to most pressure pipes, the force main has only a handful of relief valves and blow offs along its 10,670-foot length and none of these are designed to allow emergency bypass pumping. There is a 20-inch tee on the force main, but it is located just prior to the discharge of the force main.

3.3 Weather Conditions

The Quincy wastewater collection system – including the area tributary to the Quincy Point Pump Station – contains notable quantities of Infiltration and Inflow (I/I), or extraneous flows entering the collection system from storm, surface and ground water. Sewers with excessive I/I have substantially greater flow during, and immediately following storm events and during seasonal high groundwater periods. Flows at the Quincy Point Pump Station have been recorded as high as seven million gallons per day (MGD) during extreme storm events, whereas the average daily flow typically ranges between 0.6 and 0.7 MGD. Therefore, SSO response strategies are highly dependent upon precipitation.

3.4 In-House Resources

Quincy WSD is responsible for the operation, inspection and maintenance of the wastewater collection system, which includes pump stations and force mains. As such, they have responsibility for the successful resolution of municipal sewer problems. When a sewer problem is encountered, the primary goal for WSD is to restore sewer service to the users and cease any SSOs. In the event of an emergency, the City has to ability to share personnel and equipment resources across all departments. A contact list for WSD staff, as well as other City Departments, is included in Appendix A.

3.5 Outside Resource

Some emergencies may exceed the personnel and equipment resources of the City or require equipment, parts, and/or supplies not owned or kept in the City's inventory. A list of outside potential resources for personnel, equipment, parts, supplies, and technical assistance is also included in Appendix A. As a member community of the MWRA, Quincy also has access to personnel, equipment, and other resources from the MWRA when needed; particularly in the event of an emergency.

4.0 GENERAL RESPONSE PROCEDURES

4.1 Introduction

The general process utilized by Quincy WSD to respond to customer service requests is discussed in this section. This procedure includes all calls received by the WSD, regardless of whether a serious problem or sewer overflow has occurred. This procedure presents a strategy for WSD to mobilize labor, materials, tools and equipment to correct any condition that may arise. The plan is appropriate for a wide range of potential system problems.

4.2 Response Protocol

In the event of a problem in the wastewater collection system, the WSD follows the protocols described below. Figure 3, at the end of this section, summarizes the protocols in an "at-a-glance" diagram.

Step 1 – Notification of Sewer Problem: A problem in the wastewater collection system may be detected by the public, an employee of the City, or by WSD personnel during routine maintenance tasks. WSD is responsible for acting based on received reports of possible problems the wastewater collection system, and for providing immediate response to investigate and, as appropriate, taking corrective action to address the reported problem. Notification of a problem is received by WSD at the following telephone numbers:

Monday-Friday, 7:00 a.m. to 3:00 p.m.:	(617) 376-1910 (WSD dispatcher)
After Hours, Weekends, & Holidays:	(617) 376-1910 (answering service)
2nd Shift Monday - Friday (3:00a.m. to 11:00 p.m.)	Contact the On Call Foreman
3rd Shifts Monday - Friday (11:00p.m. to 7:00 a.m.)	Contact the On Call Foreman

Calls received during normal business hours are taken by the WSD dispatcher at the WSD office. Relevant information is collected regarding the reported problem including, but not limited to:

- Time and date the report was received
- Location of problem
- Description of problem
- Whether the problem is an emergency
- Caller's name, phone number, and observations
- Other relevant information to enable WSD to quickly locate, assess and correct the problem

Calls received after-hours or on weekends and holidays are received by an answering service, logged, and relayed to the on-call foreman via cell phone (See Appendix A for Emergency Contact List).

Step 2 – WSD Logs Report: Upon receipt of a reported problem in the wastewater collection system, WSD logs relevant information, as described above, into a log book. In the case of after-hours calls, the on-call WSD staff logs the information after being contacted by the answering service. All requests for service and information and the subsequent responses are documented by WSD and pertinent data is entered into a computer database.

Step 3 – Personnel Dispatched to Investigate Reported Problem: Upon receipt of a reported problem in the wastewater collection system, WSD staff is dispatched to investigate the report, assess the cause of the problem and make an initial determination as to any necessary action. In the case of reported service interruptions or SSOs, the staff also investigates whether the problem is caused by problem with the municipal system or a problem in a private owner's system.

Step 4 – Personnel Relays Results of Investigation to Supervisor: Once the reported problem has been investigated and the cause and necessary action have been determined, the information is relayed to a WSD supervisor. The supervisor provides concurrence or redirection for necessary corrective action, and then records this information in the log book and computer database.

Step 5 – Take Corrective Action as Necessary: For many service requests, no corrective action is required other than to relay the results of the investigation to another party, such as another department or a property owner. Examples of these types of requests include reports of sinkholes, odors, and problems with private sewer service connections. Obstructions in building plumbing, sewer service connections, or grinder pumps are the responsibility of the individual property owner; therefore, WSD contacts the property owner or the person making the report.

Where the investigation reveals problem with the municipal collection system, WSD takes immediate action to correct the problem, restore sewer service and, if appropriate, cease any resulting SSOs. When the problem has been corrected and service fully restored, the staff initiates SSO mitigation, cleanup, and reporting procedures discussed below if any SSOs have occurred. Staff also reports this information to a WSD supervisor and any affected property owners.

Step 6 – Documentation: As activities related to each individual request for wastewater service are completed, relevant information is recorded in the log book. Pertinent information from completed service requests is entered into the computer database. This information becomes part of the WSD digital archive of wastewater system data that not only documents daily O&M activities, but can also be queried to supply a wide variety of historic data regarding the system.

4.3 SSO Mitigation & Cleanup (if needed)

When WSD becomes aware of a discharge of untreated sewage to public and/or private property, WSD initiates SSO mitigation and cleanup procedures as soon as practical. The objectives of these procedures are to:

- Protect public health, the environment, and property from the discharge of untreated sewage
- Establish perimeters and control zones with appropriate barricades or use of natural topography
- Contain the SSO to the maximum extent possible, including preventing the discharge of raw sewage into surface waters and wetlands
- Restore the impacted area to its original condition as soon as possible
- Promptly notify regulatory agencies of SSO occurrence
- Minimize the City's risk of exposure to litigation from property owners and regulatory agencies

The SSO mitigation and cleanup procedures are detailed below.

Upon Arrival: It is the responsibility of the first staff member on site of an SSO to protect the health and safety of the public by mitigating the impact of the overflow to the maximum extent possible. Should the SSO not be the responsibility of the City (i.e., be from privately-owned sewers or service connections), but there is imminent danger to public health, public or private property, the environment, or to the quality of waters of the Commonwealth, WSD personnel shall take prudent emergency action until the responsible party assumes control and takes appropriate action. Upon observing an SSO, WSD staff follows the general response protocols above to determine cause and take immediate corrective action, but also requests any additional personnel, materials, supplies, or equipment necessary to expedite resolution and minimize impacts from the SSO.

Measures for Standard Containment: As soon as practical, the WSD initiates measures to contain overflowing sewage and recover sewage that has already been discharged, where possible. Steps to contain the overflow include actions such as sandbagging or otherwise isolating the area around the SSOs and/or nearby catch basins. The immediate receptors (street, land, basement, etc.) and terminal receptors (land, surface water, wetland, etc.) of the overflow are determined and measures are implemented to minimize the impact to public health and the environment at these receptors. This includes identifying and requesting additional personnel and/or materials and equipment to contain or isolate the SSO, if not readily available.

Additional Measures for Potentially Prolonged Overflow Conditions: In the event that an SSO may occur for a prolonged period of time, such as in the case of a major pipeline or pump station failure, additional measures are employed to mitigate the potential impacts of the SSO. Examples of such measures include, but are not limited to, sandbags, hay bales, and other materials to contain or divert the overflow, and mobilization of portable by-pass pumps to convey wastewater flows around the problem. If these measures are required, the WSD takes appropriate actions to ensure that the proper size and number of pumps are provided to effectively handle the sewer flow, and that the by-pass pumping operation is closely monitored. The WSD also provides close communication with federal, state, and local regulatory agencies throughout the emergency.

Cleanup: In order to minimize the impacts to public health and the environment from an SSO, overflow sites must be cleaned once the overflow has been stopped. Cleanup should include, but is not limited to, the following general tasks:

- Secure the area impacted by the SSO and cleanup operations to prevent contact by the public until such time that the site has been thoroughly cleaned.
- Take digital photographs of the area before and after cleanup.
- Where the SSO has resulted in ponded wastewater, pump the area dry and dispose of the residue in accordance with applicable regulations and policies.
- If a ponded area cannot be pumped dry, treat the area with bleach if appropriate. If wastewater has discharged into a body of water that may contain fish or other aquatic life, **do not** use bleach. Contact the EPA or DEP for specific instructions.
- Sweep, rake, or otherwise pick-up solids and debris such that no readily identifiable residue remains (i.e., human waste, paper, rags, plastics, etc.), and transport for proper disposal.
- Where practical, thoroughly flush the area with clean water, containing or diverting contaminated wash-water.
- Where appropriate, disinfect and deodorize the overflow site with bleach and/or lime.

4.4 SSO Notification & Reporting (if needed)

Quincy is required to report all observed SSOs occurring within the City limits to federal and state regulatory agencies, regardless of the source, ownership, or responsibility for the SSO. WSD is responsible for these reporting tasks, which are performed by the Commissioner of Public Works. In the absence of the Commissioner, the DPW Superintendent is responsible for reporting tasks. Regulatory agencies must be verbally notified of an SSO occurrence within 24 hours of the City's becoming aware of the SSO, and the local Health Department should also be notified. Verbal reports must be followed by written reports submitted to the EPA and DEP within five days. For SSOs found to be the ownership/responsibility of the City of Quincy, the DEP Sanitary Sewer Overflow (SSO)/Bypass Notification Form must be utilized. A copy of this form, and accompanying instructions, is included in

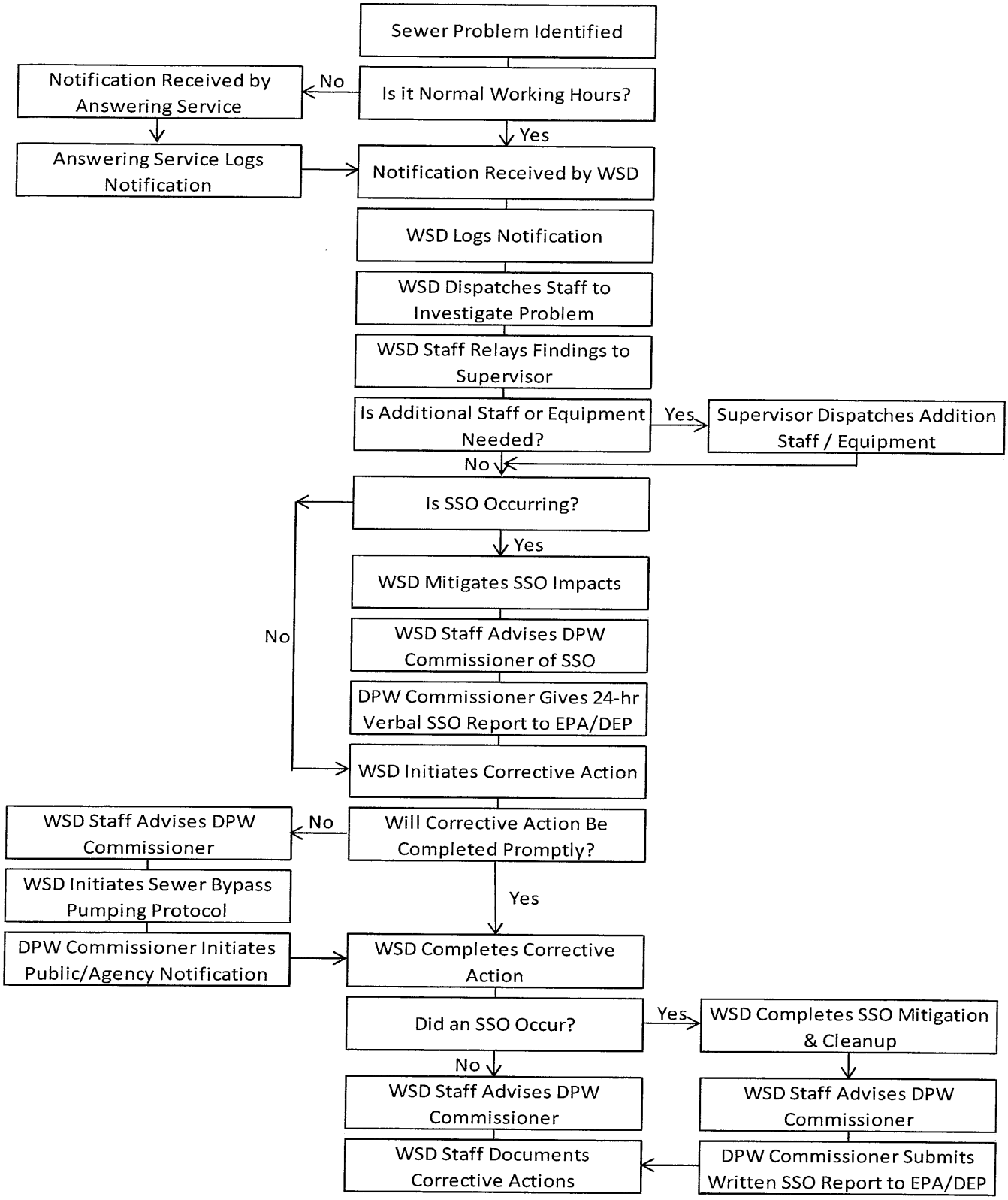
Appendix B. To ensure the most up-to-date contact information and form are utilized, WSD staff should download a new version of the form from the DEP website before each use, or at least annually.

4.5 Public Notification (if needed)

In most cases, the prompt response and corrective action taken by the WSD can resolve wastewater collection system problems before the general public is even aware; however, in the event that the magnitude, location, and/or duration of a problem warrants, the Commissioner of Public Works may decide to issue a news release. In the absence of the Commissioner, the DPW Superintendent is responsible for reporting tasks. All WSD staff have been instructed to direct public notification and other media release needs through the City's Public Information Officer (PIO). Public notification is discussed in greater detail later in this ERP.

FIGURE 3

City of Quincy, Massachusetts
Water, Sewer & Drain Department (WSD)
Sewer Emergency Response Diagram



5.0 QUINCY POINT PUMP STATION EMERGENCY RESPONSE

5.1 Emergency Conditions

Any number of emergencies could impact the Quincy Point Pump Station including:

- Pump Station Failure
- Force Main Failure
- Extended Power Outage
- Natural or Man-Made Disaster

Due to the high flows to the pump station, especially during wet weather, any one of these emergencies could result in substantial risk to public health and the environment. Appropriate emergency response is imperative.

5.2 General Response Procedures

Upon receipt of an alarm or report of a problem at the Quincy Point Pump Station or its force main, the WSD will follow the General Response Procedures described in the previous section, summarized as follows:

1. Receive notification of sewer problem
2. Log the report
3. Investigate the problem
4. Relay the problem to the supervisor
5. Take corrective action, including the following additional steps if a SSO has occurred:
   SSO mitigation & cleanup
   SSO notification & reporting
   Public notification
6. Document findings & actions

If corrective action cannot resolve the problem promptly enough to prevent surcharging and SSOs in the pump station tributary area, bypass pumping may be required as described in this section. Figure 4 shows the location of the bypass pumping discharge manhole.

5.3 Bypass Pumping Protocols

In the event of a failure of the pump station or its force main, wastewater flow can be bypassed through the use of portable pumps and discharge pipe run over the ground surface to an adjacent gravity sewer subarea. Such a bypass operation is a significant undertaking; therefore, procedures and equipment have been identified in advance and are presented in this section.

Bypass Pumping Requirements:

The amount of flow through the pump station varies significantly from dry-weather conditions to wet-weather conditions; therefore, selection of appropriate bypass pumping equipment will need to consider the following approximate flows:

- Average Daily Flow = 0.7 MGD
- Peak Dry Day Flow = 2.0 MGD
- Peak Wet Day Flow = 7.0 MGD

Based on these flow conditions and existing configuration of the pump station, bypass pumping requirements are estimated to be as follows:

Estimated Bypass Pumping Requirements

Dry-Weather [1]		
Flow Rate	1400	gpm
Suction Head (bottom wetwell)	25	feet
Suction Head (top wetwell)	15	feet
Suction Length	35	feet
Discharge Static Head	16	feet
Discharge Length	2400	feet
Discharge Pipe Diameter	See Appendix C	
Manufacturer:	See Appendix C	
Model:	See Appendix C	
Number of Pumps:	See Appendix C	

Wet-Weather		
Flow Rate	4800	gpm
Suction Head (bottom wetwell)	25	feet
Suction Head (top wetwell)	15	feet
Suction Length	35	feet
Discharge Static Head	16	feet
Discharge Length	2400	feet
Discharge Pipe Diameter	See Appendix C	
Manufacturer:	See Appendix C	
Model:	See Appendix C	
Number of Pumps:	See Appendix C	

Note: Sandbag fittings and place elbow on discharge to direct flow down the pipeline to minimize manhole invert scouring.

(1) This pump configuration should only be used in dry-weather conditions for short durations where wet weather is not anticipated and/or forecasted.

Under normal circumstances, pumping should be done from the station wet-well access hatch located outside the pump station (for which the suction head and lengths are provided above). In the event that this access hatch cannot be opened, pumping can be done from the interior wet-well access hatch; however, it is important to note that this may alter the pump specifications presented above.

Discharge Pipe Alignment:

The closest sewer with available capacity to receive bypassed flows from the Quincy Point Pump Station is the old 20-inch interceptor sewer that travels down Washington Court and Cleverly Court. The location of the receiving manhole is shown on Figure 4. The 20-inch receiving pipe can likely accommodate dry-day bypass flows, but can likely not handle wet-weather flows. The 20-inch receiving pipe has not been evaluated for wet or dry conditions.

The discharge pipe will need to exit the pump station perimeter fence either through the gate on Chubbuck Street or by cutting a hole in the fence along Des Moines Road. After exiting the pump station, the discharge pipe should be laid at the edge of the street, along the following recommended route (see Figure 5):

- Southeast on Des Moines Road to East Howard Street (north side of street)
- North on East Howard Street to Cleverly Court (west side of street)
- Cleverly Court to Washington Street (west side of street)

This route will require the discharge pipe to cross streets and driveways; therefore, provisions need to be made for vehicular and pedestrian safety in the following areas:

Streets Impacted:

South Street at East Howard Street
Chase Street at Cleverly Court (dead end)
Raycroft Street at Cleverly Court
Sixth Avenue at Cleverly Court
Washington Street at Cleverly Court (SMH discharge)

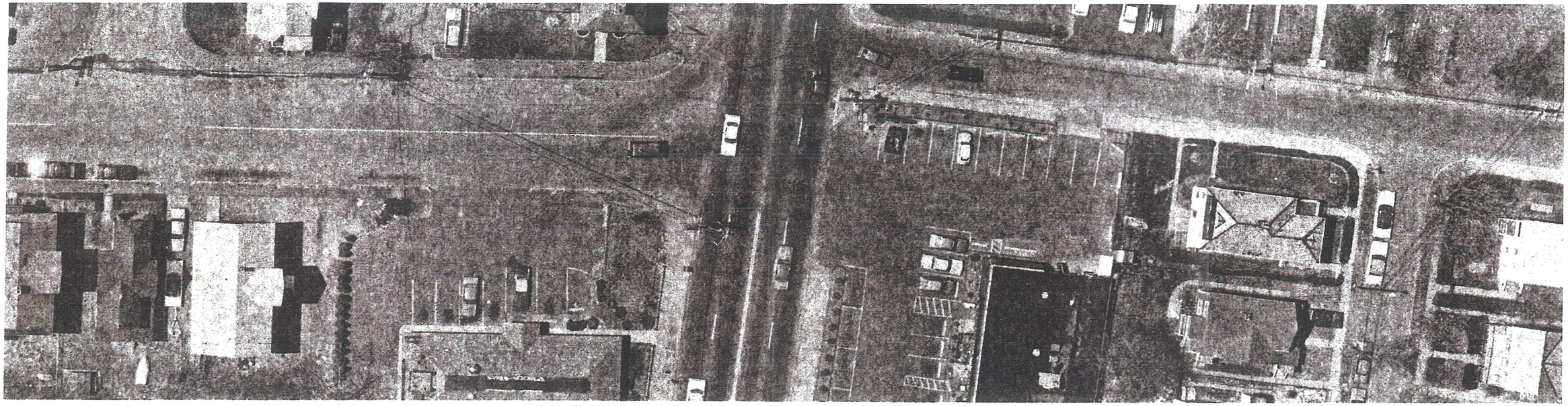
Driveways Impacted:

Des Moines Road
East Howard Street
Cleverly Court

Depending upon the duration of the bypass pumping, provisions may range from simple rerouting of traffic and offering temporary parking all the way to excavation of a trench in which to bury the discharge pipe.

5.4 Public Notification (if needed)

In the event of a large-scale or extended emergency at the Quincy Point Pump Station, the Commissioner of Public Works will decide whether notification of sewer users in the tributary area or a general news release is needed. All WSD staff has been instructed to direct public notification and other media release needs through the City's Public Information Officer (PIO). Public notification is discussed in greater detail later in this ERP.



.Y CT.

WASHINGTON CT.

SIXTH AVE.

WASHINGTON ST.

Gravel

Curb

M.H. N°14

4,800 N

5,200 N

5,000 N

Sign

M.H.

G.G.

Hyd.

WG

Seal Exist. Outlet

12" PVC Sewer

12" RVC Sewer

Outlet

18"S

4"W

4"G

Bit. Conc. Walk

Abandon Exist. 18" Sewer

Seal Inlet

Paved Parking

M.H. N°13

S.M.H. Rim El. = 31.17

EMERGENCY BYPASS DISCHRGE MANHOLE

CB

10"W

10"S

15"S

6"S

6"W

6"G

32.3

23.4

29.5

30.7

30.1

32.6

34.4

31.9

32.9

33.1

31.5

32.0

32.5

33.6

29.9

30

31.3

FIGURE 4 – DISCHARGE MH LOCATION

CITY OF QUINCY, MASSACHUSETTS
QUINCY POINT PUMP STATION

QUINCY POINT PUMP STATION

DESIGNED BY: ABS	CHECKED BY: FEO	DATE: JANUARY, 2014

Weston&Sampson®

O:\Quincy MA\2130441B Emergency Response Plan\ByPass MH Location.dwg

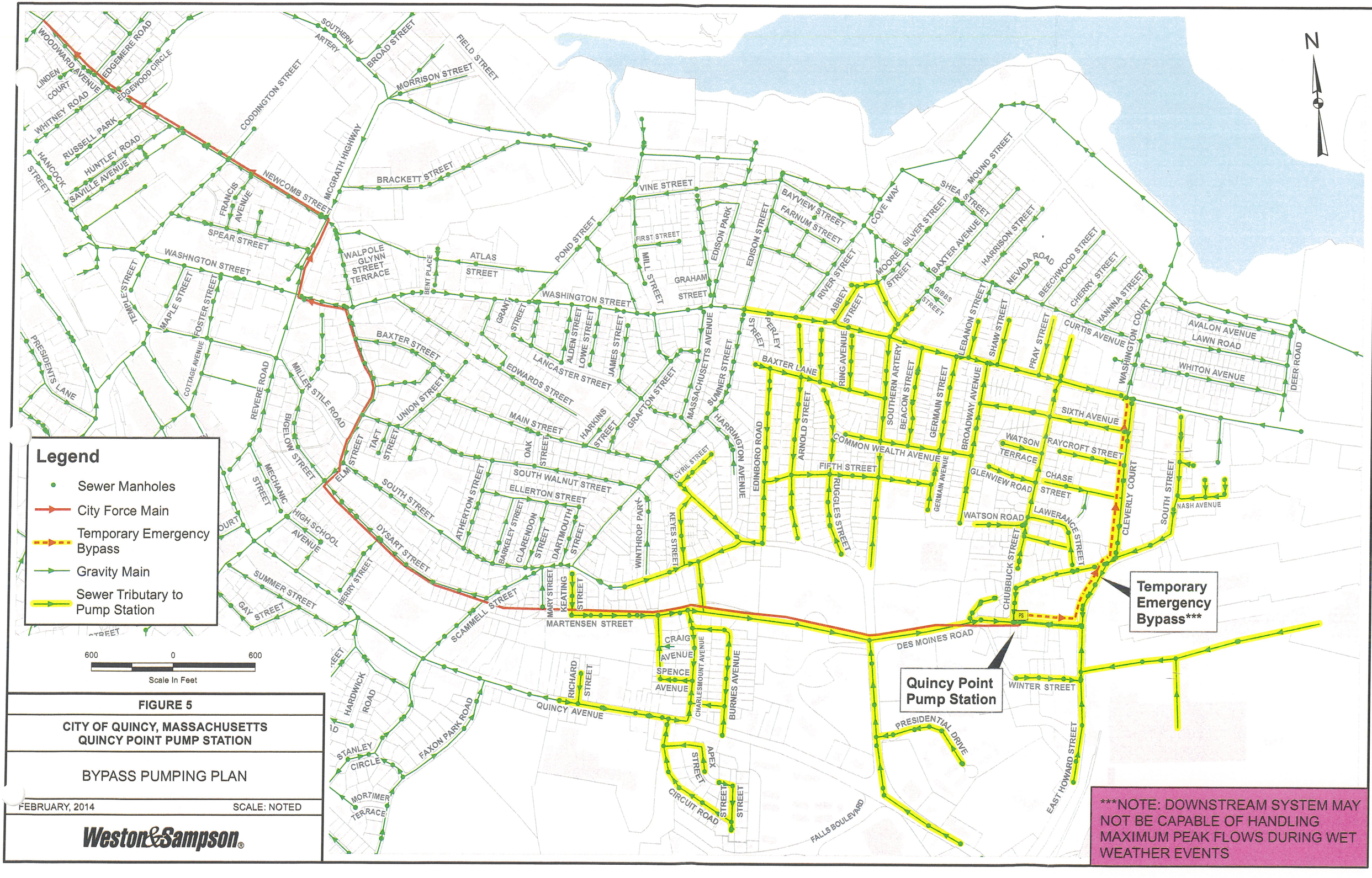


FIGURE 5

CITY OF QUINCY, MASSACHUSETTS
QUINCY POINT PUMP STATION

BYPASS PUMPING PLAN

FEBRUARY, 2014 SCALE: NOTED

Weston&Sampson®

6.0 PUBLIC NOTIFICATON

6.1 Public Notification

In the event of a large-scale emergency at the Quincy Point Pump Station or its force main, it may be necessary to notify sewer users or the general public. In Quincy, all public notification and other media release needs are handled through the City's Public Information Officer (PIO). All WSD staff has been instructed to contact the DPW Commissioner, who will then contact the PIO. In the absence of the Commissioner, the DPW Superintendent is responsible.

6.2 Sewer Service Area

Should it be necessary to distribute hard-copy or telephone notices to sewer users in the Quincy Point Pump Station tributary area, information should be distributed to all addresses on the following streets:

Abbey Road
Altamont Road
Apex Street
Arnold Street
Baxter Avenue (Gibbs to Washington)
Muddock Street
Beacon Street
Broadway Avenue
Burnes Avenue
Charlesmount Avenue
Chase Street
Chubbuck Street
Circuit Road
Claremont Avenue
Cleverly Court
Commonwealth Avenue
Craig Avenue
Cyril Street
Des Moines Road
East Howard Street
Edinboro Road
Faxon Commons
Fifth Street
Fore River Shipyard
German Avenue
German Street
Glenview Road
Graham Street (Abbey to Southern Artery)
Harrington Avenue
Hersey Place
Keating Street
Keyes Street
Kitteridge Avenue
Lawerance Street
Lebanon Street
Main Street (Cyril to South)
Martensen Street (Keating to Charlesmount)
Moody Street
Nash Avenue
Perley Place
Pray Street
Presidential Drive
Quincy Avenue (East Howard to Southern Artery)
Quincy Avenue (Quincy Tr to Charlesmount)
Quincy Terrace
Raycroft Street
Richard Street
Ring Avenue
Ruggles Street
Shaw Street
Sixth Avenue
South Street (Southern Artery to Washington)
South Street (Keating to Edinboro)
Southern Artery (Graham to Washington)
Southern Artery (Quincy Av to Washington)
Spaulding Street
Spence Avenue
Washington Street (Edison to Cleverly)
Watson Road
Watson Terrace
Winter Street

6.3 SSO Posting

Property owners in the immediate vicinity of an SSO are often party to, or notified of an SSO in conjunction with WSD response actions. However, some circumstances may warrant posting of signs or other localized notification, such as when an SSO is prolonged and/or the chance for public exposure is high. In this case, the DPW Commissioner, with prior approval of the PIO, may instruct WSD staff to erect signs to inform the public that an SSO has occurred. In the absence of the Commissioner, the DPW Superintendent is responsible. Figure 6 below, illustrates an example an SSO notification sign.

Figure 6

WARNING
SEWER OVERFLOW

Water in this area may contain raw sewage.
Contact with raw sewage poses a potential health risk.

For more information, contact:

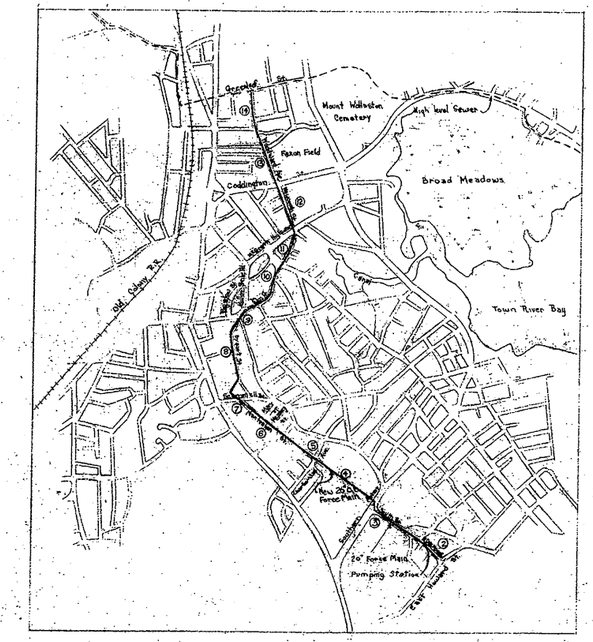
Office of the DPW Commissioner
(617) 376-1959

CITY OF QUINCY, MASSACHUSETTS

SEWAGE WORKS IMPROVEMENTS FOR QUINCY POINT

CONSTRUCTION OF 20" FORCE MAIN

MAYOR
JAMES R. McINTYRE
COMMISSIONER OF PUBLIC WORKS
JOHN M. BROWNE



LOCATION PLAN

DRAWING INDEX

ROBERT CHARLES ENGINEERING ASSOC. INC.
BOSTON, MASSACHUSETTS

JAN., 1971

RECORD DRAWING

50 D/10

N

NEW 20" FORCE MAIN

NEW 20" FORCE MAIN

NEW SEWAGE PUMPING STATION

NEW 27" R.C.P. DIVERSION SEWER

EXISTING MDC HIGH LEVEL SEWER

QUINCY AVE.

SOUTHERN ARTERY

SOUTH ST.

EAST HOWARD ST.

DES MOINES RD.

TUSCANY ST.

DAN ST.

CHARLESMOUNT AVE.

MARTENSEN ST.

SEAWELL ST.

MARY ST.

KEATING ST.

DYSART ST.

ELM ST.

MILLER STILE RD.

BIGGLOW ST.

WASHINGTON ST.

OLD COLONY RR CO.

HANCOCK ST.

QUINCY AVE.

DIMMOCK ST.

UPLAND RD.

ADAMS ST.

GREENLEAF ST.

WHITNEY RD.

RUSSELL AVE.

CODDINGTON ST.

SPEAR ST.

WOODWARD AVE.

EDGEMERE PUTNAM RD.

EDGEWOOD CIRCLE PK.

EDGEMERE RD.

NEWCOMB ST.

WALPOLE ST.

SOUTH BROOK

MORRISON ST.

FIELD ST.

BROAD ST.

SEA ST.

MOUNT WOLLASTON CEMETERY

QUINCY SHORE BLVD.

SOMERSET LANE

NARRAGANSETT RD.

CHICKATABOT RD.

HOBOMACK RD.

ALGONQUIN RD.

WAMPATUCK RD.

HOMER RD.

TOWN RIVER BAY

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

RECORD DRAWING

NO.	REVISION	DATE
1	REVISED FOR RECORD	1-3-72

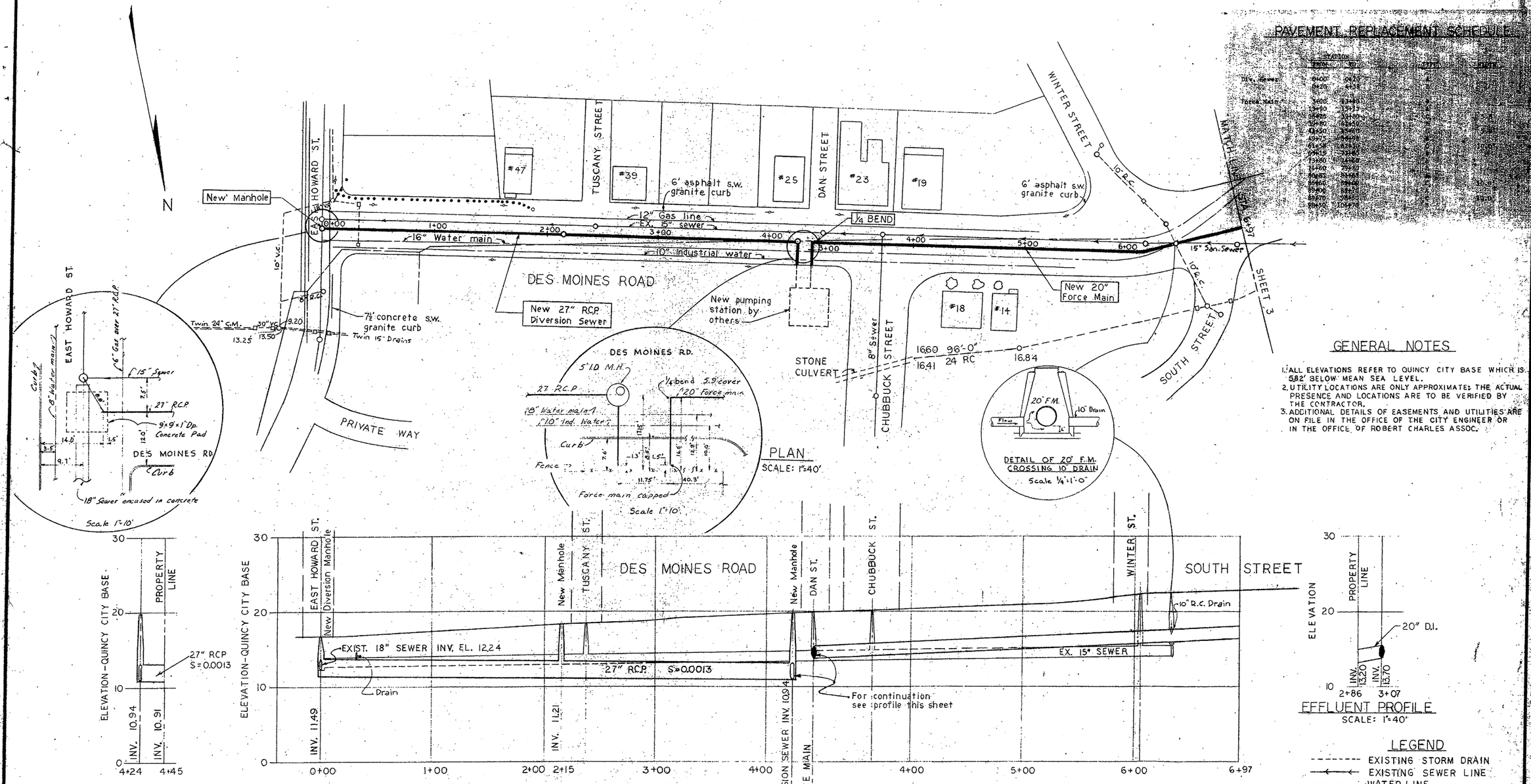
ROBERT CHARLES ENG. ASSOC. INC.
CONSULTING ENGINEERS
BOSTON, MASS.

QUINCY, MASS.
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

DRAWN	J.B.
DESIGN	J.B.
APPROVED	A.L.G.
CHECKED	A.L.G.
SCALE	1"=500'
DATE	JAN. 1971

GENERAL PLAN

1



PAVEMENT REPLACEMENT SCHEDULE

Trench	Sta.	Type	Depth
Dis. Sewer	0+00 to 0+20	Gravel	6"
	0+20 to 4+24	Bit. Conc.	6"
Force Main	3+00 to 3+90	Gravel	6"
	3+90 to 4+20	Bit. Conc.	6"
	4+20 to 4+80	Gravel	6"
	4+80 to 4+90	Bit. Conc.	6"
	4+90 to 5+25	Gravel	6"
	5+25 to 5+45	Bit. Conc.	6"
	5+45 to 5+65	Gravel	6"
	5+65 to 6+15	Bit. Conc.	6"
	6+15 to 6+60	Gravel	6"
	6+60 to 6+80	Bit. Conc.	6"
	6+80 to 6+90	Gravel	6"
	6+90 to 6+97	Bit. Conc.	6"

GENERAL NOTES

1. ALL ELEVATIONS REFER TO QUINCY CITY BASE WHICH IS 582' BELOW MEAN SEA LEVEL.
2. UTILITY LOCATIONS ARE ONLY APPROXIMATE: THE ACTUAL PRESENCE AND LOCATIONS ARE TO BE VERIFIED BY THE CONTRACTOR.
3. ADDITIONAL DETAILS OF EASEMENTS AND UTILITIES ARE ON FILE IN THE OFFICE OF THE CITY ENGINEER OR IN THE OFFICE OF ROBERT CHARLES ASSOC.

INFLUENT PROFILE
SCALE: 1"=40 HORIZ.
1"=6 VERT.

PROFILE
SCALE: 1"=40' HORIZ.
1"=6' VERT.

EFFLUENT PROFILE
SCALE: 1"=40'

LEGEND

- EXISTING STORM DRAIN
- EXISTING SEWER LINE
- WATER LINE
- GAS LINE
- E ELECTRICAL CONDUIT
- TELEPHONE CABLE
- HYDRANT
- MANHOLE
- GATE VALVE
- CATCH BASIN
- UTILITY POLE
- TREES BRUSH
- NEW FORCE MAIN

RECORD DRAWING

NO.	REVISION	DATE
1	REVISED FOR RECORD	1-3-72

ROBERT CHARLES ENG. ASSOC. INC.
CONSULTING ENGINEERS
BOSTON, MASS.

QUINCY, MASS.
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

Designed JB
Drawn LJC
Checked ALQ
Approved ALQ
Scale AS SHOWN
Date JAN 1971

CONSTRUCTION OF 20" FORCE MAIN
DES MOINES ROAD
DIVERSION SEWER AND
FORCE MAIN STA. 2+86 TO 6+97

2

N

SOUTH ST.

Curb

Island

Traffic Signal

20" Force Main

1/8 Bend - 5.6' cover

20" Force Main

Curb

P.G.

Scale 1" = 20'

SOUTHERN ARTERY

12" Sewer

12" Force Main from South St.

Air release M.H.

1/8 Bend

1/32 Vert. bend

20"x20"x6" Tee

6" G.V. for Blowoff

12" Sewer

Connection encased in concrete 7.0' of cover

Scale 1" = 20'

SHEET 2

MATCH LINE STA 6+97

SOUTH STREET

Overhead Walk

POWER LINE UNDERGROUND

10" DRAIN

6+00

7+00

8+00

9+00

10+00

11+00

12+00

13+00

14+00

15+00

ASPHALT SW GRANITE CURB

NEW 20" FORCE MAIN

24" RC DRAIN

TEL. DUCT

24" RC

STONE CULVERT

36" RC

48" RC DRAIN

1/8 BEND

21" RC DRAIN

16" IP GAS LINE

SOUTHERN ARTERY

CURB

12" SEWER

NEW 20" FORCE MAIN

AIR RELEASE MH.

1/32 BEND (VERT)

HEAD WALL

STA 15+90

SHEET 4

MATCH LINE

SOUTHERN ARTERY

AIR RELEASE

16" GAS

FILL AS REQUIRED TO MAINTAIN 2' MIN COVER

21" RC DRAIN

48" RC DRAIN

10" DRAIN

20" FORCE MAIN

10" DRAIN

ELEVATION - QUINCY CITY BASE

40

30

20

10

6+93 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 15+00 15+20 15+90

RECORD DRAWING

NO.	REVISION	DATE
1	REVISED FOR RECORD	1-3-72

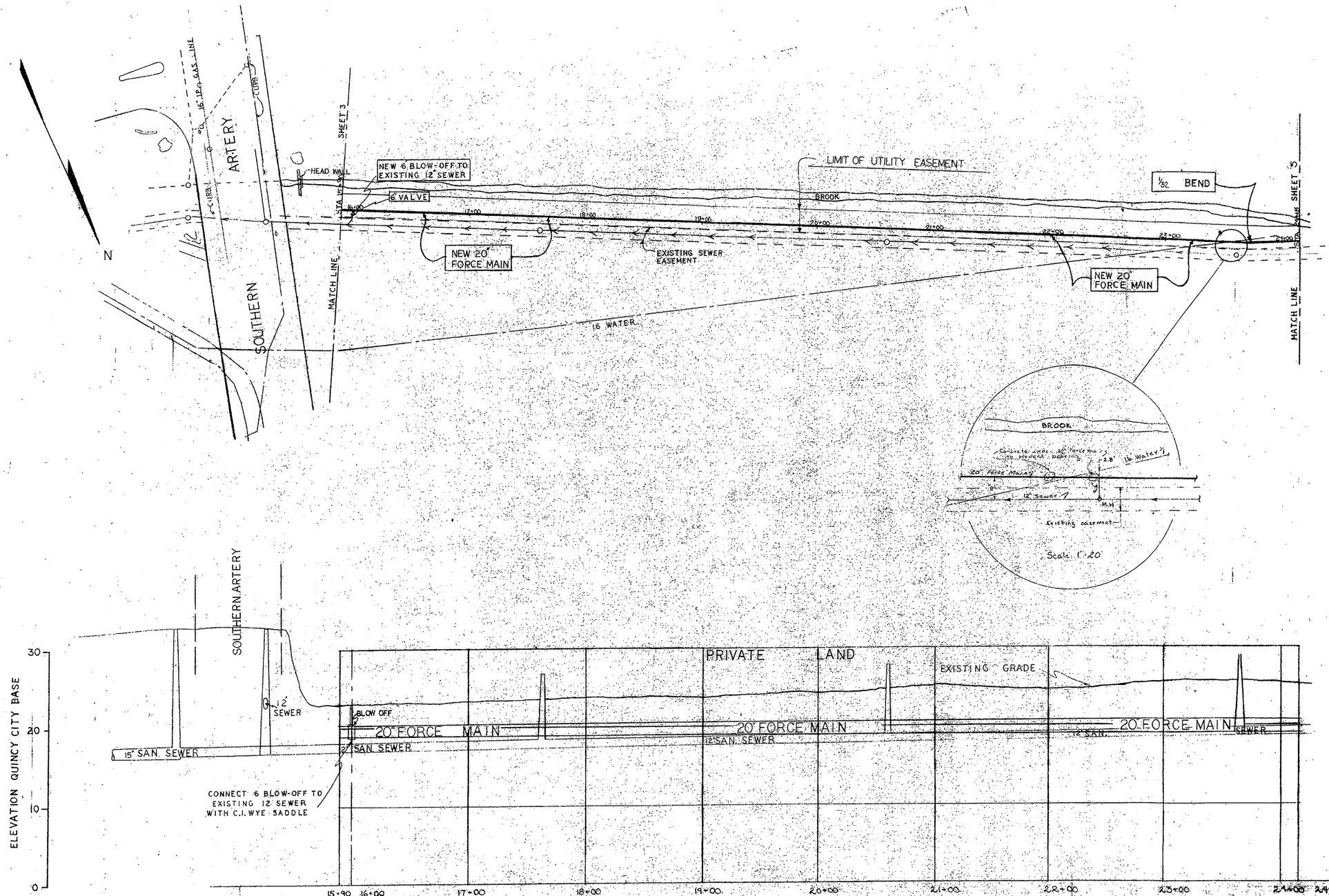
ROBERT CHARLES ENG. ASSOC. INC.
CONSULTING ENGINEERS
BOSTON, MASS.

QUINCY, MASS.
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

DRAWN JB
DESIGN ALQ.
APPROVED ALQ.
SCALE HOR. 1"=40'
SCALE VERT. 1"=5'
DATE JAN. 1971

CONSTRUCTION OF 20" FORCE MAIN
SOUTH STREET
STATION 6+97 TO STATION 15+90

3



RECORD DRAWING

NO	REVISION	DATE
1	REVISED FOR RECORD	1-3-72

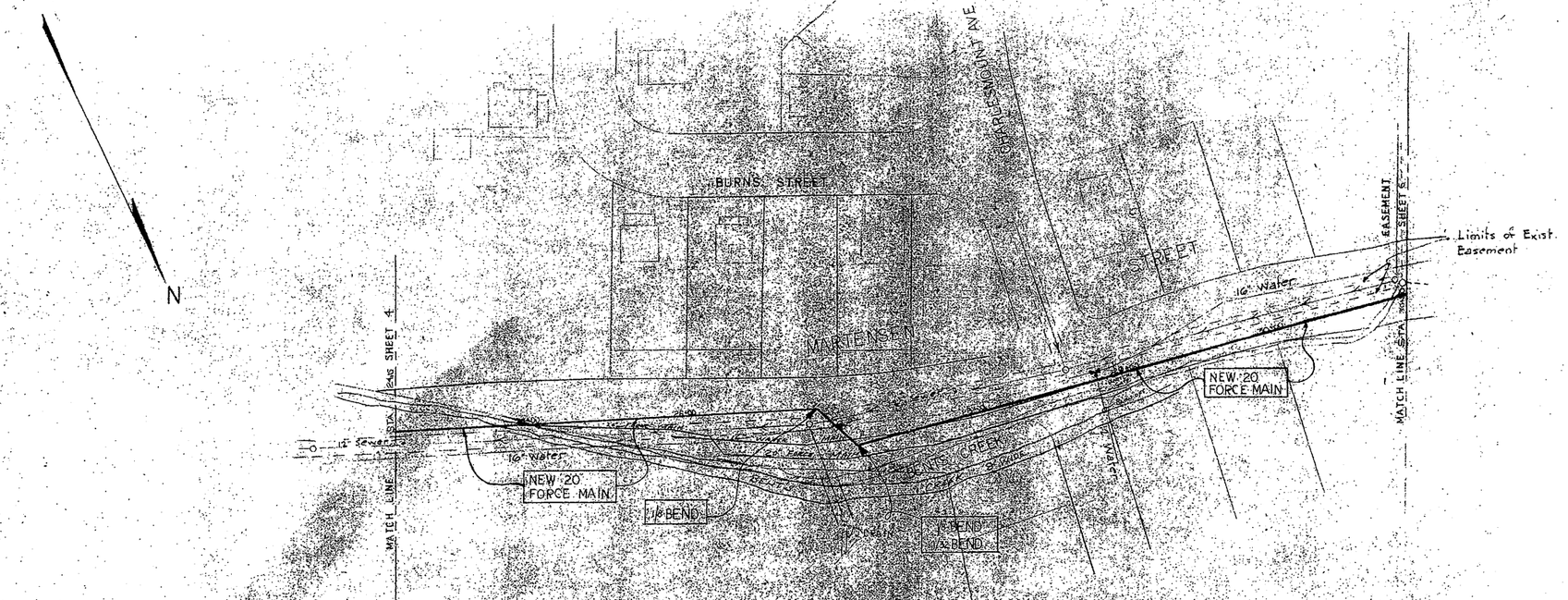
ROBERT CHARLES ENG. ASSOC. INC.
CONSULTING ENGINEERS
BOSTON, MASS.

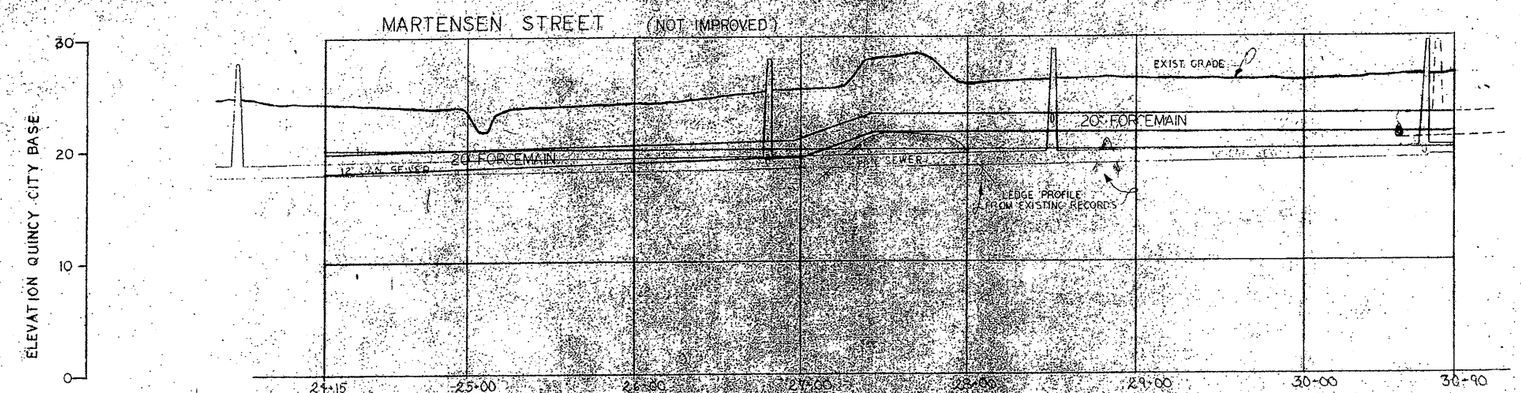
QUINCY, MASS
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

DRAWN JB
DESIGN JB
APPROVED ALQ
SCALE HOR. 1"=40'
SCALE VERT. 1"=6'
DATE Jan. 71

CONSTRUCTION OF 20" FORCE MAIN
PRIVATE LAND
STATION 15+90 TO STATION 24+15

4





RECORD DRAWING

Note: Utilities shown existing conditions 4-1-71

NO	REVISIONS	DATE
		1-8-72

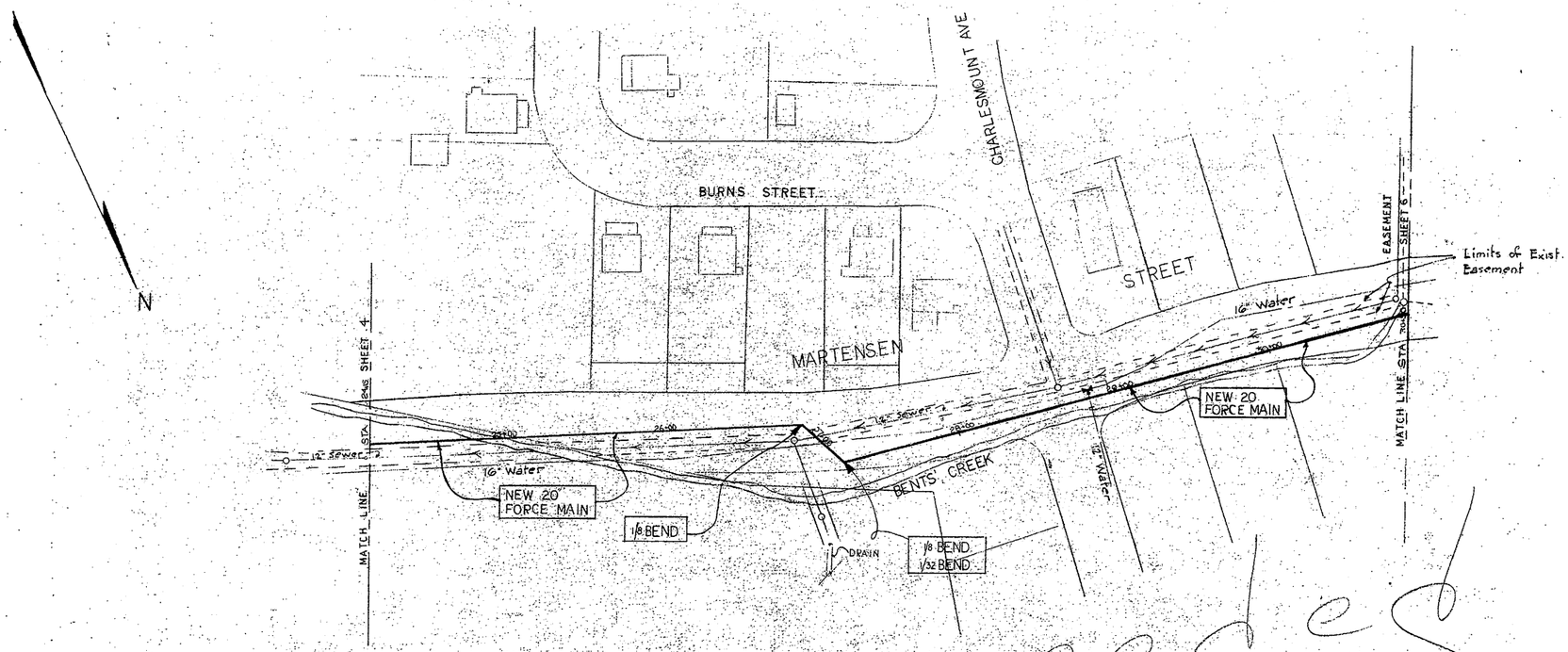
ROBERT CHARLES ENG. ASSOC. INC.
CONSULTING ENGINEERS
BOSTON, MASS.

QUINCY, MASS
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

DRAWN JD
DESIGN JD
APPROVED ALQ
SCALE HOR 1"=40'
SCALE VERT 1"=
DATE Jan 71

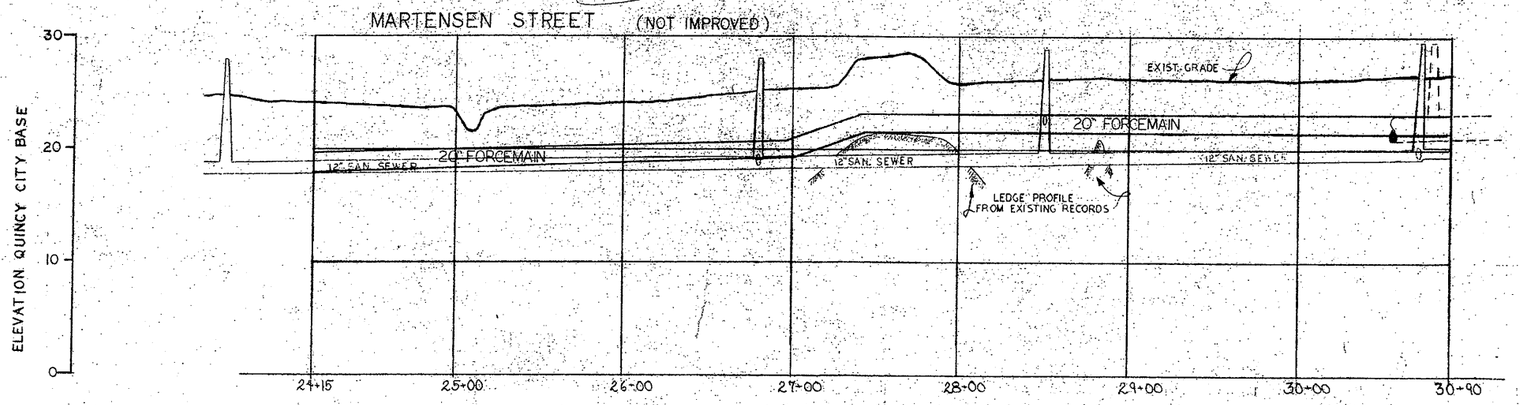
CONSTRUCTION OF 20" FORCE MAIN
MARTENSEN STREET
STATION 24+15 TO STATION 30+90

5



Superceded

See Later Sepia



RECORD DRAWING

NO	REVISIONS	DATE
		5-72

ROBERT CHARLES ENG. ASSOC., INC.
CONSULTING ENGINEERS
BOSTON, MASS.

QUINCY, MASS
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

DRAWN JD
DESIGN JD
APPROVED RLQ
SCALE HOR 1"=40'
SCALE VERT 1"=6'
DATE Jan 71

CONSTRUCTION OF 20" FORCE MAIN
MARTENSEN STREET
STATION 24+15 TO STATION 30+90

5

N

EASEMENT

SHEET 5

(UNDER CONSTRUCTION)

MARTENSEN STREET

1/8 BENDS

7' ASPHALT SW. GRANITE CURB

SHEET 7

STA 38+20

37+00

38+00

32+00

NEW 20" FORCE MAIN

GRASS SIDEWALK

GRANITE CURB

GRANITE CURB

STA 30+90

MATCH LINE

PRIVATE WAY

KEATING STREET

6" ST. GAS LINE

MATCH LINE

MARY STREET

52

53

21

1/8 BEND

90.0'

7.0'

20" FORCE MAIN

13.6'

24" DRAIN

5' SIDEWALK

1/8 BEND

98.0'

KEATING ST.

Scale 1"=20'

MARTENSEN STREET

PRIVATE WAY

KEATING ST.

MARY ST.

ELEVATION QUINCY CITY BASE

30

20

10

0

Exist. Gr.

20" FORCEMAIN

8" SAN. SEWER

20" FORCEMAIN

8" SAN. SEWER

24" PIPE

18" PIPE

30+90

32+00

33+00

34+00

35+00

36+00

37+00

37+32

38+00

38+20

RECORD DRAWING

NO	REVISION	DATE
1	REVISED FOR RECORD	12-72

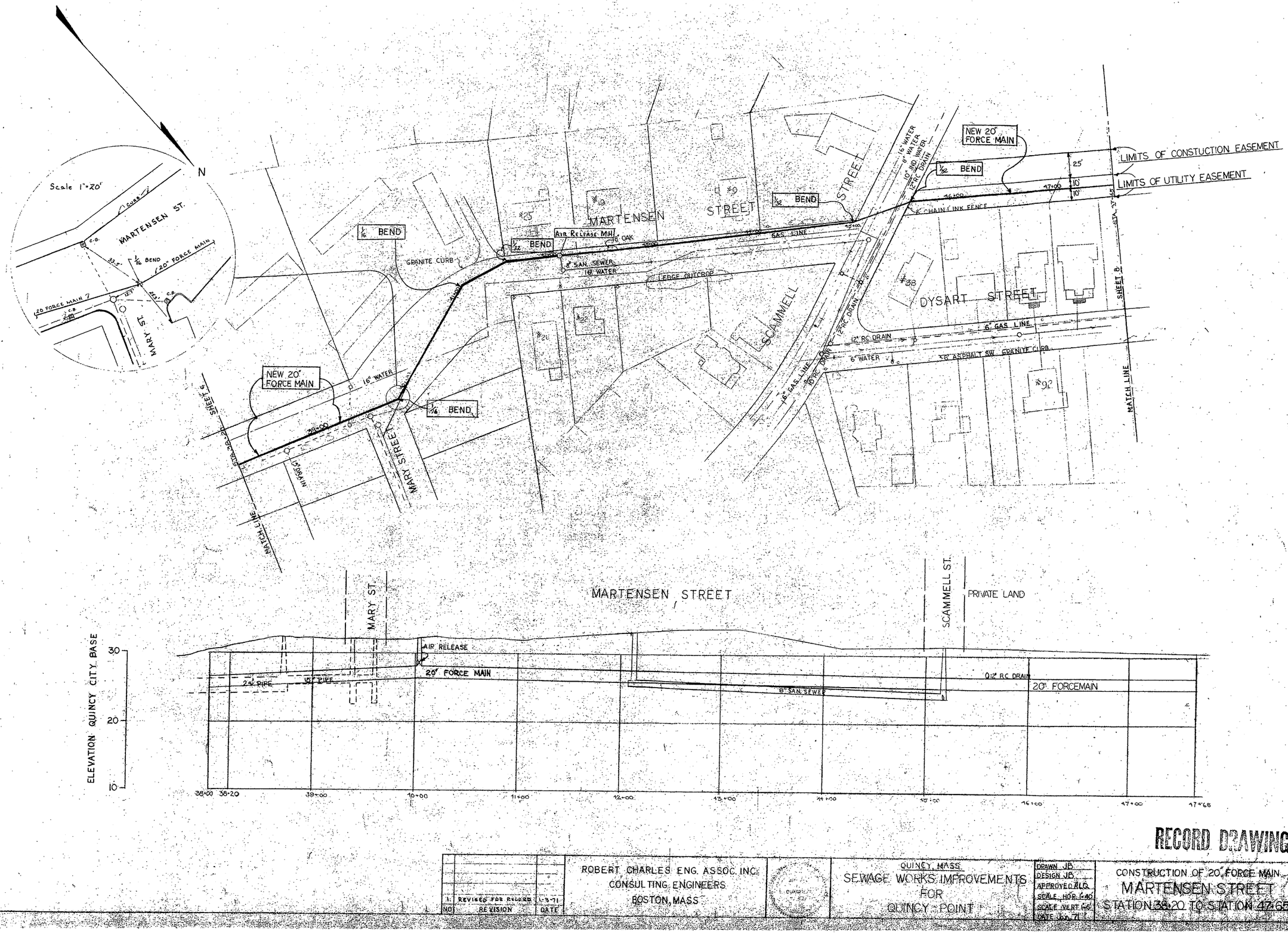
ROBERT CHARLES ENG. ASSOC. INC.
CONSULTING ENGINEERS
BOSTON, MASS.

QUINCY, MASS.
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

DRAWN JB
DESIGN JB
APPROVED RLQ
SCALE, HOR. 1"=40'
SCALE, VERT. 1"=
DATE JAN. 1971

CONSTRUCTION OF 20 FORCE MAIN
MARTENSEN STREET
STATION 30+90 TO STATION 38+20

6



RECORD DRAWING

NO	REVISION	DATE
1	REVISED FOR RECORD	1-3-71

ROBERT CHARLES ENG. ASSOC. INC.
CONSULTING ENGINEERS
BOSTON, MASS.

QUINCY, MASS.
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

DRAWN JB
DESIGN JB
APPROVED RLC
SCALE, HOR. 1"=40'
SCALE VERT 1"=10'
DATE Jan. 71

CONSTRUCTION OF 20" FORCE MAIN
MARTENSEN STREET
STATION 38+20 TO STATION 47+68

7

N

1/4 BEND

12" VC. DRAIN

SEWER

48.00

STA. 47+65

DYSART STREET

24" VC. DRAIN

6" GAS LINE

4' CHAIN LINK FENCE

82.00

21" RC. DRAIN

6" GAS

51.00

12" RC. DRAIN

6" GAS LINE

12" SAN. SEWER

1/8 BEND

MATCH LINE

NEW 20" FORCE MAIN

24" VC. DRAIN

10" RC. DRAIN

6" GAS LINE

EX. ASPHALT SW. GRANITE CURB

6" VALVE

6" BLOW OFF TO EXIST. MH.

24" VC. DRAIN

6" GAS LINE

10" VC. DRAIN

SHEET 9

MATCH LINE

NEW 20" FORCE MAIN

1/8 BEND

20" FORCE MAIN

12" BARREL

12" SEWER

PROPERTY OF DYSART ST.

FENCE

6" GAS

DYSART ST.

1/8 BEND

CURB

Scale 1"=20'

6" VALVE

EXISTING SEWER M.H. & 10" SEWER

6" CAST IRON

20" FORCE MAIN

20"x20"x6" TEE

CURB

6" BLOW-OFF

Scale 1/8"=1'-0"

ELEVATION QUINCY CITY BASE

30

20

10

0

DYSART STREET

12" VC. DRAIN

12" SAN. SEWER

10" RC. DRAIN

24" V.C.

20" FORCE MAIN

10" RC. DRAIN

24" V.C. DRAIN

BLOW OFF

10" VC. DRAIN

20" FORCE MAIN

30 YC

47+65 48+00 49+00 50+00 51+00 52+00 53+00 54+00 55+00 55+50 56+00 57+00 58+00 58+65

RECORD DRAWING

NO	REVISION	DATE
1	REVISED FOR RECORD	1-3-72

ROBERT CHARLES ENG. ASSOC. INC.
CONSULTING ENGINEERS
BOSTON, MASS.

QUINCY, MASS.
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

DRAWN JB
DESIGN JB
APPRDVED RLC
SCALE HOR. 1"=20'
SCALE VERT. 1"=5'
DATE JAN. 1971

CONSTRUCTION OF 20" FORCE MAIN
DYSART STREET
STATION 47+65 TO STATION 58+65

8

N

ELM STREET

CURB

BIGELOW STREET

ELM ST.

MILLER STILE ROAD

TOWN BROOK

DYSART STREET

6"ø GAS

18" STONE WALL

⅛ BEND

NEW 20" FORCE MAIN

6'x4' CONC. CULVERT

MATCH LINE

SHEET 8

CHAIN LINK FENCE

SOUTH STREET

CONSTRUCT NEW MH. WITH INLET TOP AND CONNECTION TO BOX CULVERT

LIMITS OF UTILITY EASEMENT

SHEET 10

GAS LINE

SOUTH WALNUT STREET

DYSART ST.

WATER MAIN

20" FORCE MAIN

DRIVEWAY

EASEMENT

Scale: 1"=10'

4'x4' CULVERT

20' EASEMENT

FENCE

Scale 1"=20'

ELM STREET

Scale 1"=20'

PRIVATE LAND

ELM STREET PARK

MILLER STILE RD.

SQ. WALNUT ST.

ELEVATION QUINCY CITY BASE

20

10

0

20" FORCE MAIN

12" EXIST. CONN.

8" NEW CONN.

12" SAN. SEWER

8" SAN. SEWER

58+65

59+00

60+00

61+00

62+00

63+00

64+00

65+00

66+00

66+10

RECORD DRAWING

NO.	REVISION	DATE
1	REVISED FOR RECORD	1-5-72

ROBERT CHARLES ENG. ASSOC. INC.
CONSULTING ENGINEERS
BOSTON, MASS.

QUINCY, MASS.
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

DRAWN JB
DESIGN JB
APPROVED RLO
SCALE HOR. 1"=40'
SCALE VERT. 1"=5'
DATE JAN 1971

CONSTRUCTION OF 20" FORCE MAIN
ELM STREET
STATION 58+65 TO STATION 66+10

9

N

ELM ST.

2.5 × 3.0' STONE CULVERT

20" FORCE MAIN

1/32 BEND

1/16 BEND

7' SIDEWALK

Scale 1"=20'

SOUTH WALNUT STREET

GAS

SEWER

MATCH LINE

SHEET 9

1/16 BEND

NEW DRAIN MH ITEM NO. 3

TOWN BROOK

ELM STREET

1/16 C.I. BEND

1/16 C.I. BEND

1/8 BEND

GRANITE CURB

ASPHALT

SW

GAS

SHEET 11

NEW 20" FORCE MAIN

1/32 BEND

2.5'×3.0' STONE CULVERT

NEW INVERTED SIPHON - ITEM NO. 6

NEW 20" FORCE MAIN

BAXTER STREET

MATCH LINE

WASHINGTON ST.

ELM ST

SIDEWALK

1/16 BEND

20" FORCE MAIN

#109

Scale 1"=20'

ELM ST.

POLE

1/8 BEND

20" FORCE MAIN

WASHINGTON ST.

HYD.

1/8 BEND

FIRE ALARM

Scale 1"=20'

ELEVATION QUINCY CITY BASE

40

30

20

10

0

SO. WALNUT ST.

ELM STREET

BAXTER ST.

NEW DRAIN M.H.

12" V.C.

12" V.C.

20" FORCE MAIN

8" SAN. SEWER

10" SAN. SEWER

8" SAN. SEWER

CONSTRUCT NEW 12" INVERTED SIPHON UNDER FORCEMAIN

2.5'×3.0' STONE CULVERT

66+10

67+00

68+00

70+

71+

72+00

73+00

73+80

RECORD DRAWING

NO.	REVISION	DATE
1	REVISED FOR RECORD	1-'72

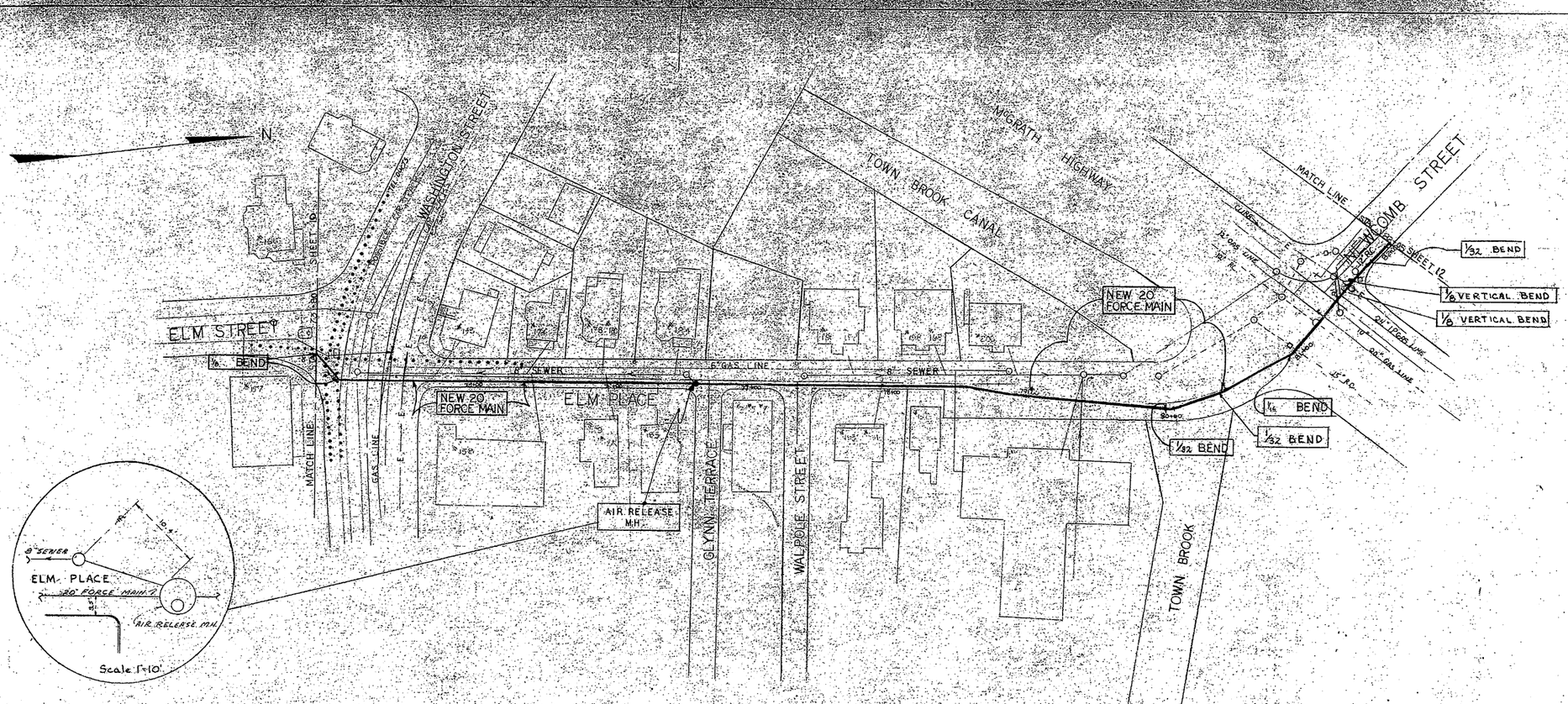
ROBERT CHARLES ENG. ASSOC. INC.
CONSULTING ENGINEERS
BOSTON, MASS.

QUINCY, MASS.
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

DRAWN	JB
DESIGN	JB
APPROVED	RLQ
SCALE HOR	1"=40'
SCALE VERT	1"=6'
DATE	JAN. 1971

CONSTRUCTION OF 20" FORCE MAIN
ELM STREET
STATION 66+10 TO STATION 73+80

10



RECORD DRAWING

NO	REVISION	DATE
1	REVISED FOR RECORD	1-3-72

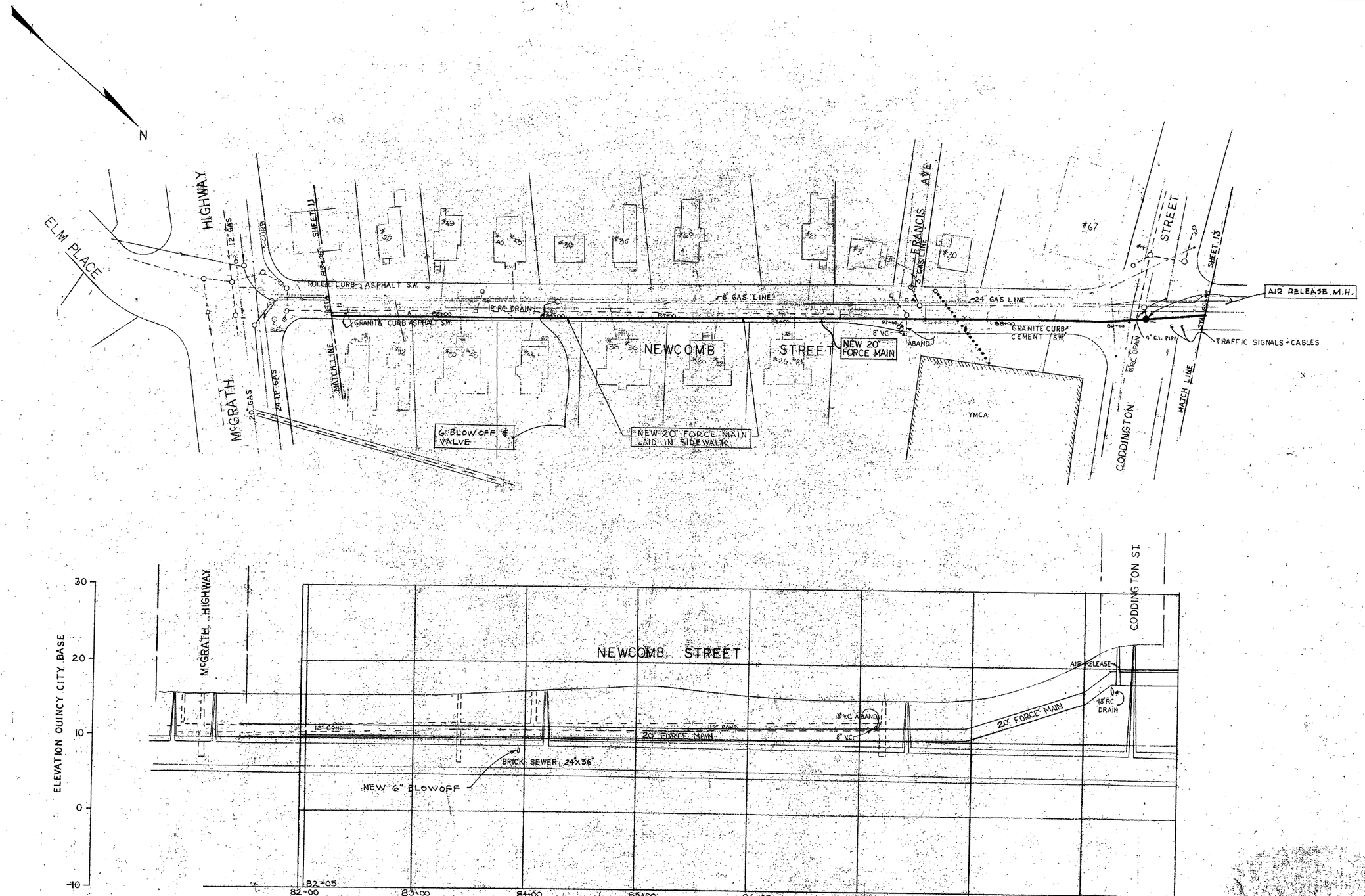
ROBERT CHARLES ENG. ASSOC. INC.
CONSULTING ENGINEERS
BOSTON, MASS.

QUINCY, MASS.
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

DRAWN JB
DESIGN JB
APPROVED RLC
SCALE HOR. 1"=40'
SCALE VERT. 1"=
DATE Jan. 71

CONSTRUCTION OF 20" FORCE MAIN
ELM PLACE
STATION 7380 TO STATION 8205

11



RECORD DRAWING

NO	REVISION	DATE
1	REVISED FOR RECORD	1-72

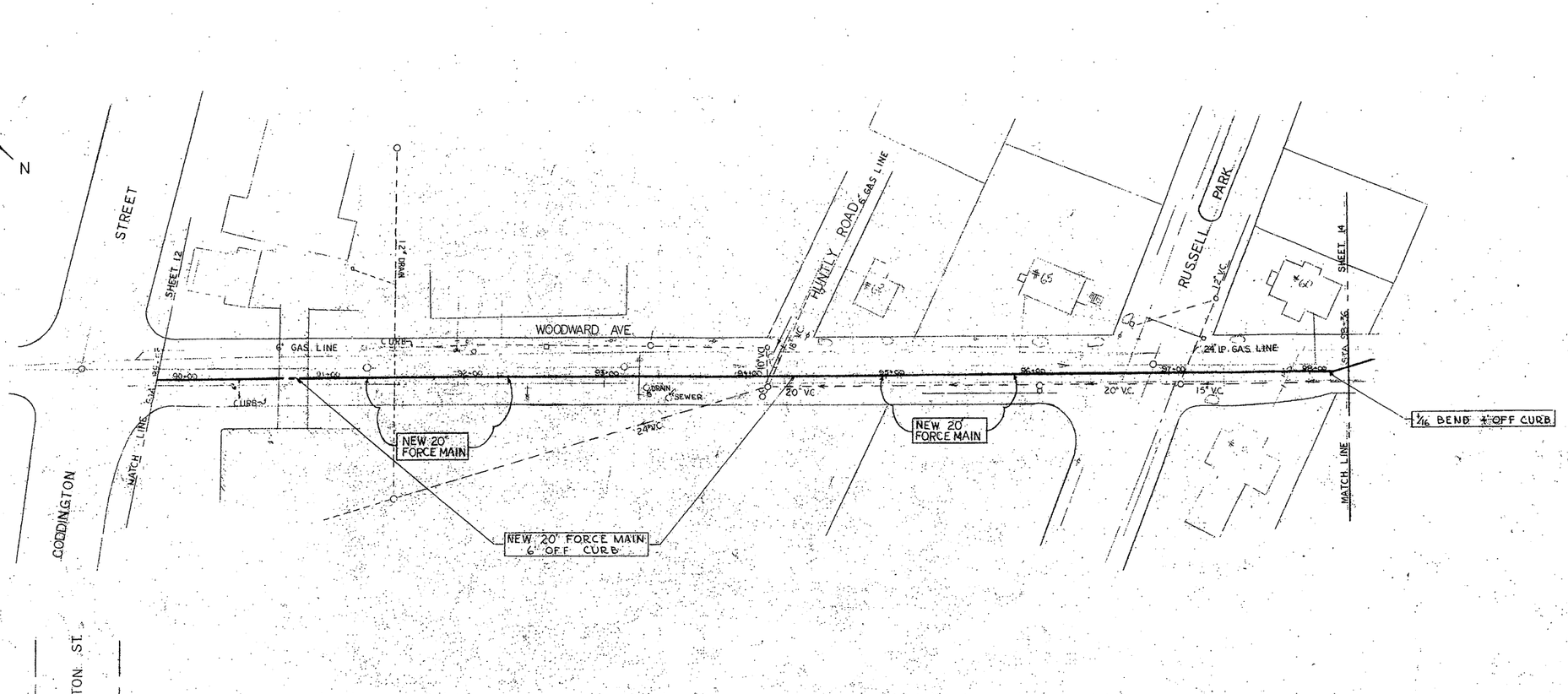
ROBERT CHARLES ENG. ASSOC. INC.
CONSULTING ENGINEERS
BOSTON, MASS.

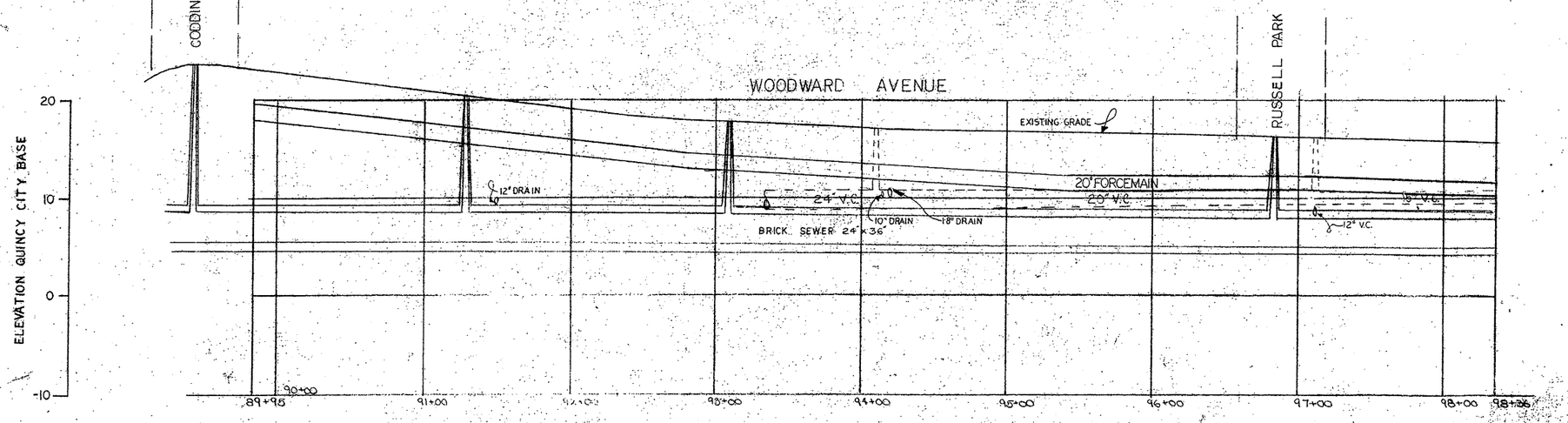
QUINCY, MASS.
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

DRAWN JB
DESIGN JB
APPROVED RLO
SCALE HOR. 1"=40'
SCALE VERT. 1"=
DATE JAN. 1971

CONSTRUCTION OF 20" FORCE MAIN
NEWCOMB STREET
STATION 82+05 TO STATION 89+95

12





RECORD DRAWING

NO	REVISION	DATE
	REVISED AS RECORD	11-3-72

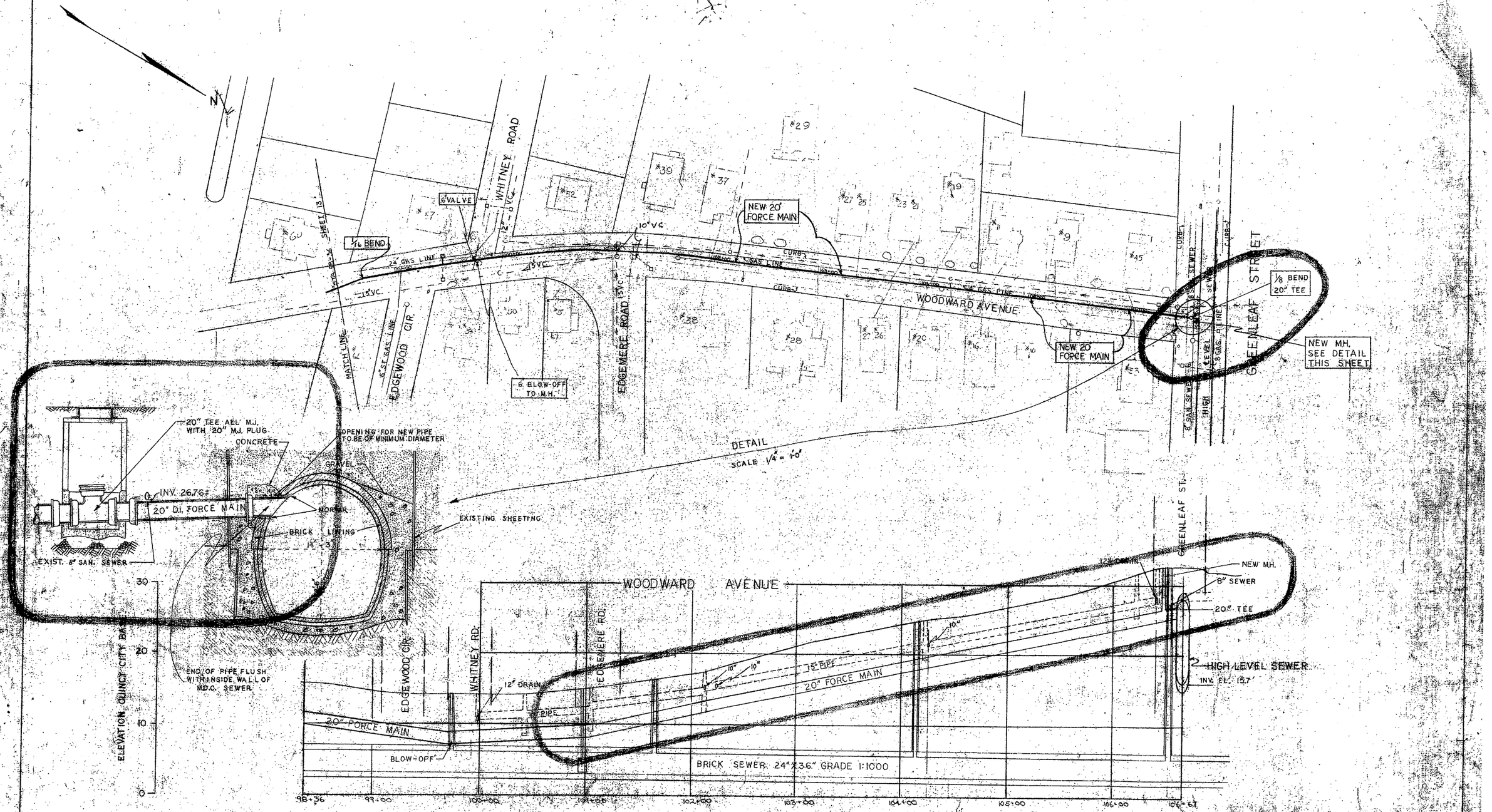
ROBERT CHARLES ENG. ASSOC. INC.
CONSULTING ENGINEERS
BOSTON, MASS.

QUINCY, MASS.
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

DRAWN JB
DESIGN JB
APPROVED ALQ
SCALE HOR. 1"=40'
SCALE VERT. 1"=10'
DATE JAN 1971

CONSTRUCTION OF 20" FORCE MAIN
WOODWARD AVENUE
STATION 89+95 TO STATION 98+36

13



RECORD DRAWING

NO.	REVISION	DATE
2	REVISED FOR RECORD	1-3-72
1	REVISED ST. PROFILE & CONNECT TO M.D.C. SEWER	2/11/71

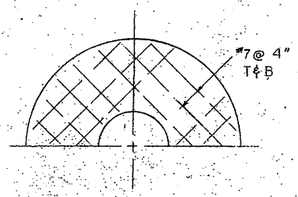
ROBERT CHARLES ENG. ASSOC. INC.
CONSULTING ENGINEERS
BOSTON, MASS.

QUINCY, MASS.
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

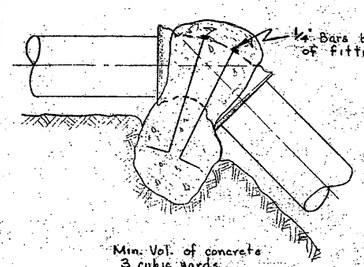
DRAWN JB
DESIGN JB
APPROVED RLC
SCALE HOR. 1"=40'
SCALE VERT. 1"=4'
DATE 1-3-71

CONSTRUCTION OF 20" FORCE MAIN
WOODWARD AVENUE
STATION 98+36 TO STATION 106+67

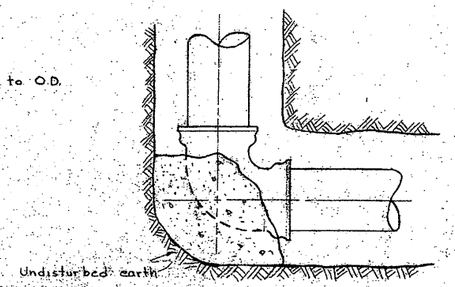
14



HALF PLAN OF COVER



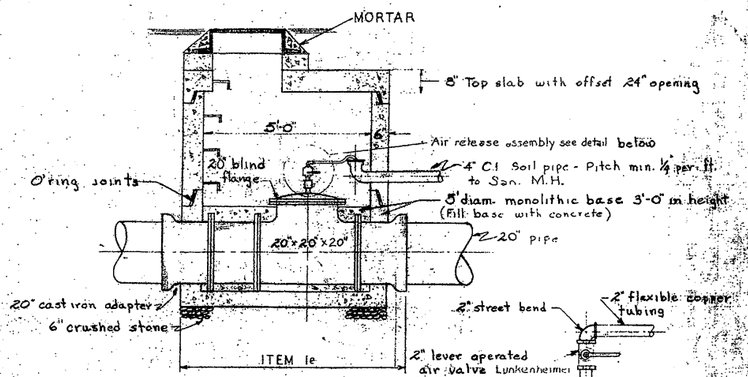
VERT. BEND



HOR. BEND

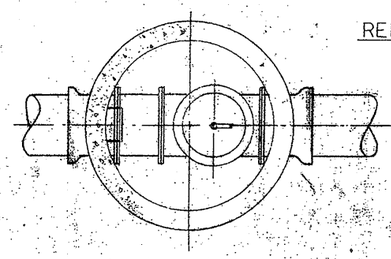
TYP. THRUST BLOCK DETAILS

½" = 1'-0"



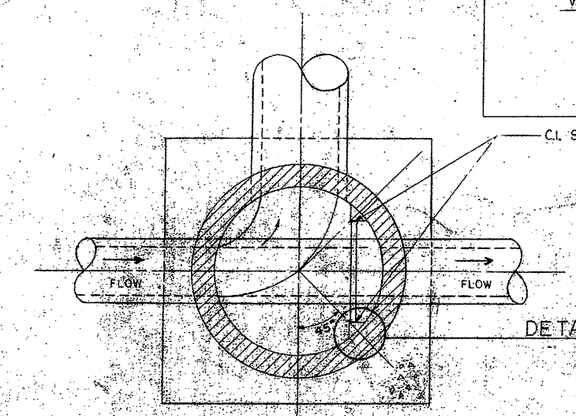
RELEASE ASSEMBLY DETAIL

1" = 1'-0"

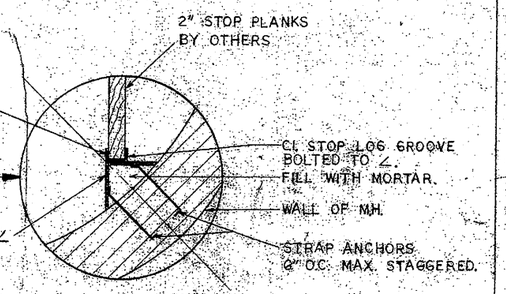


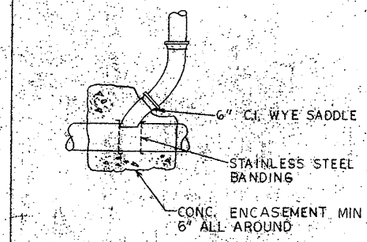
TYP. AIR RELEASE MANHOLE DETAILS

½" = 1'-0"

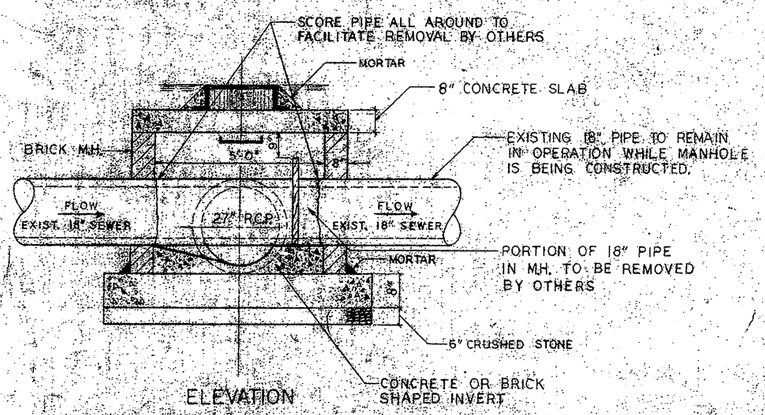


PLAN





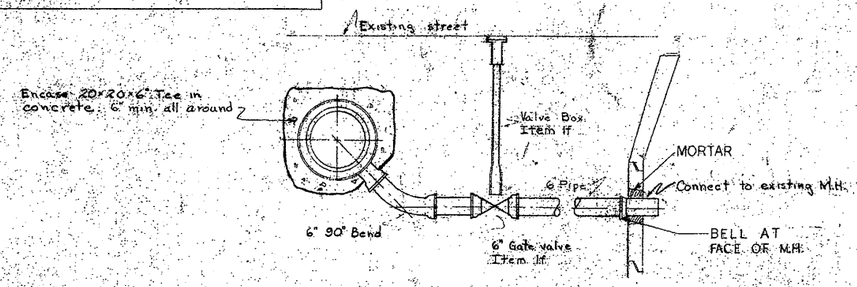
PLAN OF PIPE CONNECTION



ELEVATION

DIVERSION MANHOLE

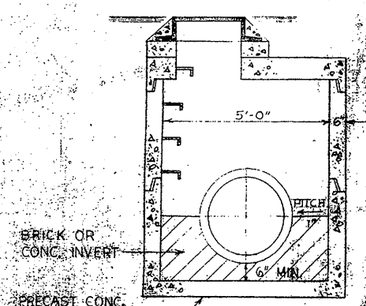
1" = 1'-0"



MANHOLE CONNECTION

TYP. BLOW OFF DETAIL

½" = 1'-0"



TYP. MH. DETAIL

½" = 1'-0"

RECORD DRAWING

DETAIL

NO	REVISION	DATE
	REVISED FOR RECORD	

ROBERT CHARLES ENG. ASSOC. INC.
CONSULTING ENGINEERS
BOSTON, MASS.

QUINCY, MASS.
SEWAGE WORKS IMPROVEMENTS
FOR
QUINCY POINT

DESIGN	TE
APPROVED	ALQ
CHECKED	ALQ
SCALE	AS SHOWN
DATE	MAY 1957

APPENDIX A

Emergency Contacts List

The contact names and numbers in this section should be regularly reviewed and updated so that they are current in the event of a true emergency. In the event of an emergency, it is important that a current list of phone numbers be readily available and accessible to the collection system personnel. Names and numbers of contacts should be reviewed at least annually to ensure that they are kept current.

IN-HOUSE RESOURCES

Department	Contact Name	Office Phone	Mobile Phone
Emergency Dispatch	Emergency	911	
DPW Commissioner	Dan Raymondi	617-376-1959	617-834-0309
DPW Superintendent	Lawrence Prendeville	617 376-1902	617-908-4329
Water, Sewer & Drain Dept.	Mark Vialpondo	617 376-1955	617-590-4164
Water, Sewer & Drain Dept.	Peter Hoyt	617 376-1912	617-913-1340
City Engineer	Shawn Hardy	617-376-1937	857-939-8944
Fire Department	Non-Emergency	617-376-1011	
Fire Chief	Chief Joseph Baron	617-376-1040	617-828-7420
Police Department	Non-Emergency	617-479-1212	
Police Chief	Chief Paul Keenan	617-376-1212	
Public Health	Main Number	617-376-1270	
Public Health Commissioner	Andrew Scheele	617-376-1272	617-908-9827
Mayor	Tom Koch	617-376-1991	617-839-3780
Mayor's Office	Main Number	617-376-1990	
Public Information Officer	Chris Walker	617-376-1990	
Traffic Engineer	John Gillon	617-376-1962	
Emergency Management Director	Chief Joseph Baron	617-376-1105	
Superintendent of Schools	Richard DiChrisofaro	617-984-8700	
Information Systems Manager	Charles Phelan	617-376-1120	
Inspectional Services	Jay Duca	617-376-1450	
Parks & Forestry	Christopher Cassani	617-376-1251	
Purchasing	Kathryn Hobin	617-376-1060	
City Solicitor (attorney)	James Timmins	617-376-1516	
On-Call Foreman (Cell)			
	Anthony Distasi		617-504-9792
	William Wright		617-438-3355
	Chris Newton		617-939-8227
	James Mastroianni		617-590-4084
Pump Station Operator	David Tamulis		339-237-7577

LOCAL MEDIA

All media releases must go through the Mayor's office, Public Information Officer (see prior page).

OUTSIDE RESOURCES

Company / Agency	Contact Info	Office Phone	Other Phone	Description of Services
Federal & State Agencies				
Environmental Protection Agency (EPA)	Emergency	800-424-8802		environmental emergency
Environmental Protection Agency (EPA)	Todd Borci	617-918-1870		SSO reporting
MA Dept. of Environmental Protection (DEP)	Kevin Brander	978-694-3215	24-hr: 888-304-1133	environmental emergency / SSO reporting
MA Water Resources Authority (MWRA)	Emergency	617-305-5950		emergency assistance
MA Water Resources Authority (MWRA)	Main Number	617-242-6000		information
MA Dept. of Health	Main Number	617-624-6000	After hrs: 617-522-3700	health emergency
MA Emergency Management (MEMA)	Framingham	508-820-7775		disaster assistance
Federal Emergency Management (FEMA)	Main Number	617-223-9540	617-223-9562	disaster assistance
MA HAZMAT	Emergency	508-820-2000		spill/haz waste
MA HAZMAT	Main Number	978-567-3150		spill/haz waste
MA State Police	Main Number	888-525-5555	*SP or *77	police assistance - state roads
MA Highway Dept.	Main Number	800-227-0608		state roads
Utility Providers				
Dig Safe	Utility Markout	888-344-7233	888-digsafe	utility markout before excavating
Utilities - National Grid	Gas Emergency	800-233-5325		gas leak / service shutoff
Utilities - National Grid Gas	Non-emergency	781-466-5000	800-732-3400	gas service information
Utilities - National Grid Electric	Outage	800-465-1212		electric service outage
Utilities - National Grid Electric	Main Number	800-322-3223		electric service information
Contractors & Equipment Suppliers				
Weston & Sampson	Peabody, MA	978-532-1900	24-hr 978-265-2947	pump/VFD, controls, electrician
R.H. White Construction	Auburn, MA	508-832-3295		pumps/controls, construction contractor
Rain for Rent	North Oxford, MA	508-987-0042		bypass pumping equipment
Godwin Pumps (Xylem)	Bridgeport, NJ	856-467-3636		bypass pumping equipment
Clean Harbors	Braintree, MA	800-645-8265		spill/haz waste contractor
Murphy's Waste Oil	Woburn, MA	617-935-9066		spill/haz waste contractor
Cyn Environmental	Stoughton, MA	800-242-5818		spill/haz waste contractor
Stonkus Hydraulics	Bangor, ME	508-883-3105		VFD rental
ATS Equipment	Boston, MA	617-825-3600		generator rental
Hertz Equipment Rental	Boston, MA	617-442-4210		generator rental
Pump, Power & HVAC	Kingston, MA	781-585-7881		generator rental
JC Lentine Electric Service	Hyde Park, MA	617-361-1500		electrician
LeFleur Electrical	Auburn, MA	508-832-9333		electrician
McLaughlin Bros.	Brockton, MA	508-587-3409		construction contractor
P. Gioioso & Sons	Hyde Park, MA	617-592-3421		construction contractor
Hoadley & Sons	Rockland, MA	781-878-8088		generator rental
Water Works Supply	Malden, MA	617-322-1238	24-hr 978-531-3799	material supplier
E. J. Prescott, Inc.	Middleton, MA	978-777-7738		material supplier
W.R. Grainger	Norwood, MA	617-762-7375		material supplier

APPENDIX B

DEP Sanitary Sewer Overflow (SSO)/Bypass Notification Form

Massachusetts Department of Environmental Protection
Bureau of Resource Protection – Wastewater Management Program

Sanitary Sewer Overflow(SSO)/Bypass Notification Form

Instructions

Who must notify DEP about an overflow or bypass, and when?

Any owner or operator of the following facilities:

- Municipal, state, federal, regional, industrial or other private wastewater collection system;
- Wastewater utility;
- Wastewater treatment works;
- Facility with a groundwater discharge permit;
- Facility with a surface water discharge permit.

This requirement includes any owner or operator of a satellite municipal collection system or other collection system that is part of a larger POTW not under the same ownership and control.

The following situations require notification to DEP and submittal of the SSO Report Form:

- An un-permitted overflow or bypass;
- Backup of wastewater into public or private property when the event is caused by a condition of the system owned and operated by the sewer authority
- In a combined sewer system, an overflow or bypass during dry weather conditions or at a location not covered by a NPDES permit, or from a portion of the system that has a separate sanitary sewer.

Backups of wastewater into a property which are not caused by conditions in the system owned and operated by the sewer system are not required to be reported. These incidents normally occur due to blockages in service connections to a property or blockages in the internal plumbing system.

What are the procedures for reporting?

Step One:

Immediate Telephone and/or email notification to MassDEP, EPA, and other parties:

Notification to MassDEP and other regulatory authorities is a critical element of the SSO response plan. Notification must be made as soon as possible, and no later than 24 hours after discovery of the event. The agency notifications should include all responsible officials whose duties include management of resources which may be affected by the SSO discharge. A list of agencies, contact staff, phone numbers, and emails should be kept by the Sewer Authority and posted for easy access to responsible staff. A list of some relevant agencies follows:

Agency:	Contact	Requirements
MassDEP	During business hours: Northeast Region: (978) 694-3215 Central Region: (508) 792-7650 Southeast Region:	Report all SSO events to relevant regional office Report SSO's to emergency line during non-business hours

Sanitary Sewer Overflow(SSO)/Bypass Notification Form

Instructions

	(508) 946-2750 Western Region: (413) 784-1100 24-hour Emergency Line: 1-888-304-1133 If you are not sure which Massachusetts DEP Regional Office oversees your facility, go to http://www.mass.gov/dep/about/region/findyour.htm.	
EPA	EPA New England: (617) 918-1870	Report all SSO events
Local Board of Health	List of local BOH contact information available at http://www.mhoa.com/index.aspx?NID=172	Report all SSO events to local BOH(s) where impacts may occur
Department of Conservation and Recreation	State House Ranger Base 617-722-1188	Where DCR beaches or parks affected
MA Division of Marine Fisheries	Boston/Northeast: 617-727-3336 x 165 Southeast: 508-563-1779 x 122	Where shellfish resources may be affected
Drinking Water Resource Managers	List of Drinking Water Supply contacts available at http://www.mass.gov/dep/about/organization/pwscont.pdf	Where Drinking Water Resources may be affected

Hazardous Material Releases: If you believe an overflow, bypass, or any other discharge may have resulted in an oil or hazardous material release, report it to DEP at any time, 24 hours a day, at this toll free number: 1-888-304-1133.

MassDEP may require, on a case-by-case basis, more extensive reporting of the SSO event where determined necessary to protect users of resources affected by SSO discharges.

Step Two:
Submit a written report to DEP within five (5) calendar days of the time you become aware of the overflow, bypass or backup. DEP requires the use of the MassDEP Sanitary Sewer Overflow (SSO)/Bypass notification form, unless an alternative reporting form is authorized by MassDEP in writing.

The Notification form should be fully completed, and shall include a clear description of the overflow, or bypass and its causes, including the best approximation of the dates and times, and if the situation has not been corrected, the amount of time the overflow/bypass is expected to continue, and a description of the measures to be implemented to stop the discharge. The Form or attachments must also include steps taken or planned to reduce, eliminate, and prevent recurrence.

Sanitary Sewer Overflow(SSO)/Bypass Notification Form

Instructions

If you have a discharge permit, check the Monitoring and Reporting Section of your permit to determine if your *Notification Form* should be sent to the attention of DEP's regional Bureau of Waste Prevention (industrial facilities) or the regional Bureau of Resource Protection (nonindustrial facilities). All municipal facilities shall submit their reports to the Bureau of Resource Protection.

Fax the *Notification Form* to the attention of the Bureau of Resource Protection in your DEP regional office:

- Massachusetts Department of Environmental Protection, Northeast Regional Office, 205B Lowell Street, Wilmington, MA 01887. Fax: 978-694-3499.
- Massachusetts Department of Environmental Protection, Central Regional Office, 627 Main Street, Worcester, MA 01608. Fax: 508-792-7621.
- Massachusetts Department of Environmental Protection, Southeast Regional Office, 20 Riverside Drive, Lakeville, MA 02347. Fax: 508-947-6557.
- Massachusetts Department of Environmental Protection, Western Regional Office, 436 Dwight Street, Springfield, MA 01103. Fax: 413-784-1149.
- U.S. Environmental Protection Agency, Water Technical Unit (OES 04-4), 5 Post Office Square – Suite 100, Boston, MA 02109-3912 Fax: 617-918-0870

What should I do if I'm not sure of the information I am providing?
For required items such as time of occurrence, causes of incident, volume of overflow, etc., PROVIDE YOUR BEST ESTIMATE OR ASSESSMENT AT THE TIME OF THIS REPORT. You can submit any additions or corrections later.

What is the best way to report the exact location of the overflow, or bypass?
Include with your *Notification Form* a copy of a map indicating its location. Please use 8 ½ " by 11" paper at an appropriate scale between 1:5000 to 1:25000. Specifying the geographic location will help DEP determine the public health and water quality impacts associated with overflows and bypasses.

Why do I need to report backups into buildings?
DEP wants to ensure that sewage backups into buildings as a result of problems in the sewer system are properly repaired and measures are put in place to reduce the likelihood of recurrence. Owner/operators of sewer systems that caused a backup may need to repair, rehabilitate, or upgrade the hydraulic capacity of their system, or change their operations and maintenance procedures.

Are there some overflows or Bypass that are not subject to these reporting requirements?
DO NOT use the *Sanitary Sewer Overflow(SSO)/Bypass Notification* Form in the following situations:

- The overflow is from a properly permitted Combined Sewer Overflow structure. Follow the reporting requirements in your NPDES Permit.
- You are reporting an overflow or bypass of sewage for a collection system or treatment works that is not under your ownership and control. However, please assist DEP by immediately reporting to the appropriate DEP Regional Office by phone or fax any overflows or bypass incidences for facilities other than your own which involve a discharge of wastewater to the environment.

Sanitary Sewer Overflow(SSO)/Bypass Notification Form

Instructions

What are the state regulations that apply to this notification? Where can I get copies?

These regulations include, but are not limited to:

- Surface Water Discharge Regulations, 314 CMR 3.00
- Groundwater Discharge Regulations, 314 CMR 5.00
- Sewer Connection Regulations, 314 CMR 7.00
- Operation and Maintenance Regulations, 314 CMR 12.00

Official copies of the regulations may be purchased at:

State Bookstore
State House, Room 116
Boston, MA 02133
617-727-2834

State Bookstore
436 Dwight Street
Springfield, MA 01103
413-784-1376

Massachusetts Department of Environmental Protection
Bureau of Resource Protection – Watershed Permitting Program

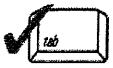
Sanitary Sewer Overflow (SSO)/Bypass Notification Form

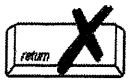
FOR DEP USE ONLY

Tax Identification Number

A. Reporting Facility

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





1. Facility Information

Reporting Sewer Authority _____ Permit # _____

2. Authorized Representative Transmitting Form:

First Name _____ Last Name _____ Telephone No. _____

Title _____ E-mail Address _____

B. Phone Notifications:

See DEP Regional Office telephone and fax numbers at the end of this form.

1. **MassDEP staff** contacted: first name _____ last name _____

   Date/Time contacted: Date _____ Time _____ ☐ am ☐ pm

2. **EPA staff** contacted: first name _____ last name _____

   Date/Time EPA contacted: Date _____ Time _____ ☐ am ☐ pm

3. Board of Health contacted: First Name _____ Last Name _____

   Date/Time contacted: Date _____ Time _____ ☐ am ☐ pm

4. Others notified (select all that apply); ☐ Conservation Commission

   ☐ Harbormaster ☐ Shellfish Warden ☐ Division of Marine Fisheries

   ☐ Downstream Drinking Water Supplier ☐ Watershed Association

   ☐ Beach Resource Manager ☐ Other: _____ (specify)

C. SSO Information

1. SSO Discovered: Date _____ Time _____ ☐ am ☐ pm

   By: _____

2. SSO Stopped: Date _____ Time _____ ☐ am ☐ pm

3. SSO Discharge from: ☐ Sanitary Sewer Manhole ☐ Pump Station

   ☐ Backup into Property ☐ Other: _____ (specify)

4. SSO Discharge to: ☐ Ground Surface (no release to surface water)

   ☐ Direct to Receiving Water _____ (surface water)

   ☐ Catch basin to Receiving Water _____ (surface water)

   ☐ Backup into Property Basement

Sanitary Sewer Overflow (SSO)/Bypass Notification Form

FOR DEP USE ONLY

Tax Identification Number

C. SSO Information (cont.)

Location: _____
(Description of discharge site or closest address)

5. Estimated SSO Volume at time of this Report: _____

   Method of Estimating Volume: _____

6. Cause of SSO Event:

   ☐ Rain Event ☐ Pump Station Failure ☐ Insufficient Capacity in System

   ☐ Treatment Unit failure

   ☐ Sewer System Blockage: ☐ Pipe Collapse ☐ Root Intrusion ☐ Grease Blockage

   ☐ Other: _____
   (Specify)

7. Corrective Actions Taken:

   _____

   _____

   _____

   _____

   Impact Area cleaned and/or disinfected: ☐ Yes ☐ No

   _____

   _____

   Corrective Actions Completed: ☐ Yes ☐ No

   _____

D. Comments/Attachments/Follow-up

I wish to provide (select all that apply):

☐ Attachment ☐ Additional comments below: ☐ No additional comments or attachments

Additional comments and planned actions:

_____

_____

_____

Massachusetts Department of Environmental Protection
Bureau of Resource Protection – Watershed Permitting Program

Sanitary Sewer Overflow (SSO)/Bypass Notification Form

FOR DEP USE ONLY

Tax Identification Number

E. Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Authorized Representative

Date Signed

Please keep a copy of this report for your records. When submitting additional information, include the MassDEP Incident Number from this report.

MassDEP Regional Office and EPA Telephone and Fax Numbers:

Northeast Region	Phone: 978-694-3215	Fax: 978-694-3499
Southeast Region	Phone: 508-946-2750	Fax: 508-947-6557
Central Region	Phone: 508-792-7650	Fax: 508-792-7621
Western Region	Phone: 413-784-1100	Fax: 413-784-1149
EPA Contact	Phone: 617-918-1870	Fax: 617-918-0870
DEP 24-hour emergency	Phone: 888-304-1133	

APPENDIX C

Bypass Pump Specifications

RAIN FOR RENT
ENGINEERING DIVISION
Western Oilfields Supply Company
(661) 399-9128 Fax 399-3211

3404 State Road
P.O. Box 2248
Bakersfield, CA 93303

CONFIDENTIAL

To: Nick Gamache
Branch: 54
From: Kurt Dudley
Date: 2/21/2014
Customer: Western & Sampson
Project: Snall By-pass
Job No: 01-9068
Doc. No: 01-9068-01-01
Quote No.: 10-054-581328

Calculations

Pump and pipe recommendations are needed to pump a maximum flow rate of 4,800 gpm, a distance of 2,400 ft to open discharge. Maximum suction lift from water level to grade is not more than 15 ft. There is a 16 ft elevation gain from pump grade to discharge location. Customer would like to use SA DV200c pumps with 12" piping. Elevation of job site is assumed to be no more than 100 ft above sea level.

The following are the Lift and TDH calculations

SA DV200c Pump:

Total Suction Lift

15.0	Ft. lift, water==>ground level
0.39	Ft. Pipe Hf for 12" - 35' Spirolite Hose
0.58	Ft. Entrance Loss
0.32	Ft. Elbow Loss
0.29	Ft. Reducer Loss and Misc Losses
3.50	Ft. Trailer/ Skid Height
0.81	Ft. Vapor Loss
20.89	Ft.

Total Dynamic Head (TDH)

96.6	Ft. Pipe Hf loss for 12"- 2,400' HDPE SDR 26
1.16	Ft. Pipe Hf loss for 12"- 20' Heavy Duty tank hose
8.57	Ft. Elbow Loss
0.08	Ft. Gate Valve (12")
4.76	Ft. Manifold Loss
4.37	Ft. Check Valve (8")
19.17	Ft. Elevation Change and Misc. Losses
20.89	Ft. Suction Lift
155.58	Ft. Required Pump P

Altitude (Ft): 100 Ft
Atmosphere Adjuster (Ft): 0.12 Ft

Atmosphere = 33.38 - 20.89 Ft. ==> 12.49 $NPSH_A$
At 2,400 GPM NPSHR = 10.00 Ft. < 12.49 Ft. $NPSH_A$ O.K.✓

RECOMMENDATION:

Recommend two (2) SA DV200c pumps @ 2,400 gpm each, discharging into two (2) 12" Heavy Duty tank hoses. These will run approximately 20 ft to connect into one (1) 12" HDPE SDR 26 pipeline to discharge. Discharge off the 8" check valve must be immediately increased to 12" hose.
Recommend one (1) SA DV200c pump manifolded into above pipeline as recommended mechanical failure redundancy.
Suction stingers are to be a minimum of 12" Spirolite Hose. HDPE discharge fittings are to be a minimum rating of SDR 26.
Air/ vacuum vents are recommended at the pump station, discharge location and at high points along the pipeline and every 1/4 mile.
Suction stingers require a minimum submergence of 3.5 ft to reduce the possibility of vortexing and cavitation.

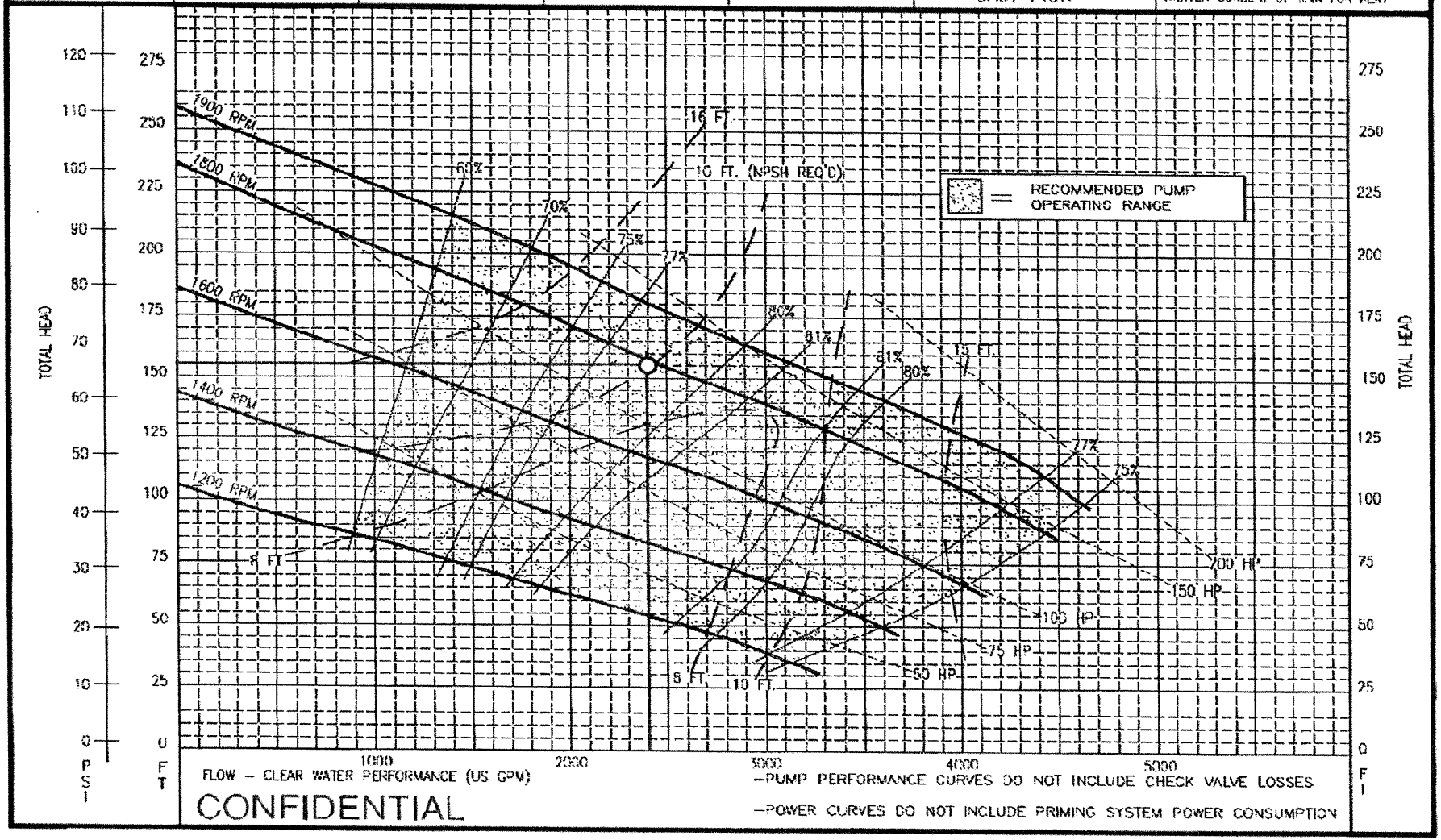
These calculations and recommendations were derived using the published pump curves. Actual pump performance in the field may vary from pump to pump and may not follow the trends displayed here. These calculations delivered by the Rain For Rent Engineering Department are based on the information provided by the customer. Any variations of the system's characteristics may cause a change in the pumping requirements. Different flow, elevation, pipe distance, and fluid composition conditions may require different pumping systems.

Rain For Rent

CURVE: 01-0135-02-16

PUMP : DV-200c

SUCTION	DISCHARGE	MAX. SPHERE	IMPELLER	IMPELLER	IMPELLER & WEAR RINGS
12"	8"	3.375"	2 VANE	14.00"	CAST IRON



CONFIDENTIAL

–PUMP PERFORMANCE CURVES DO NOT INCLUDE CHECK VALVE LOSSES

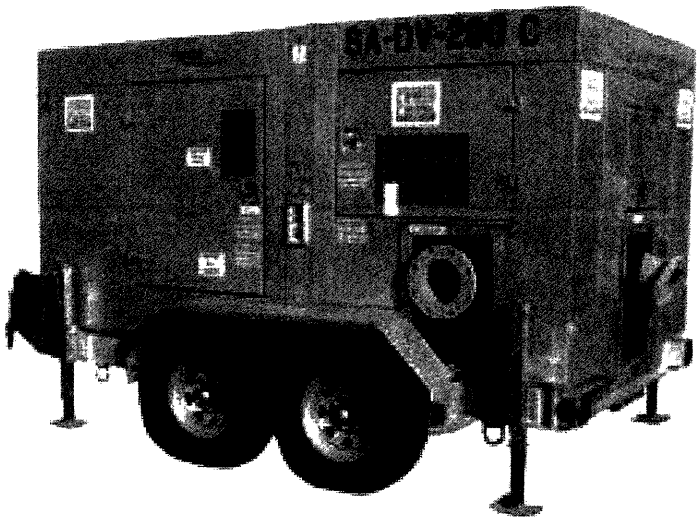
–POWER CURVES DO NOT INCLUDE PRIMING SYSTEM POWER CONSUMPTION

Model SA DV-200c

Size 12" X 8"

Standard Features

- Hot Dip Galvanized Trailers and Skids
  - Radiator Enclosure
  - Battery Box
  - Wheels
- Zinc Plated Jacks
- Emissions Certified Engines
  - Perkins and John Deere
- DOT LED lights
- Electric Brakes with Safety breakaway
- Locking Battery Box



Pump Features

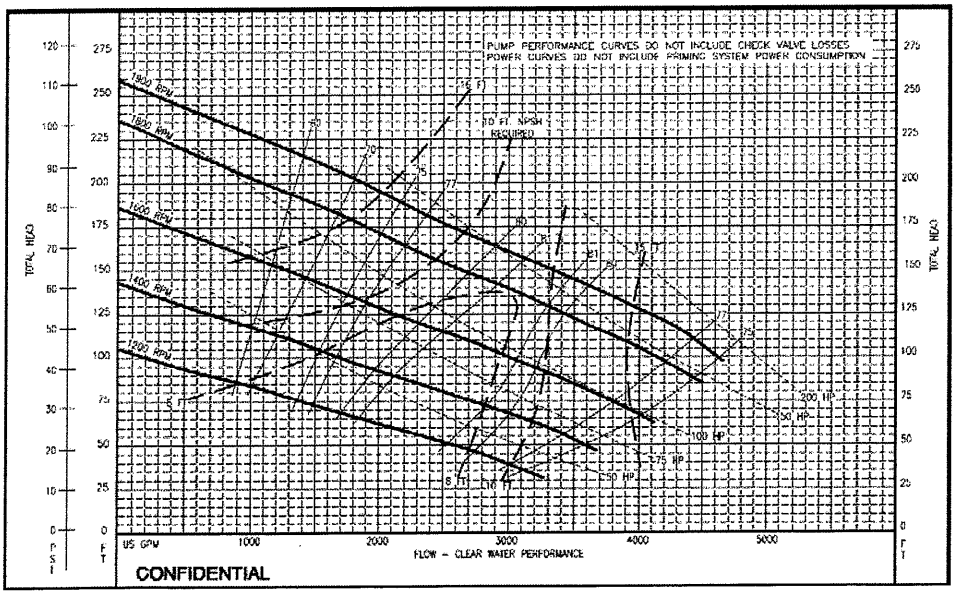
- Quiet operation with noise levels as low as 72 dB(A) at 7m (23ft).
- Solids-handling capabilities to 3.375" diameter maximum
- Continuous self-priming
- Runs dry unattended
- Suction lift up to 28 ft.
- Skid- or trailer-mounted
- Auto-start-capable control panel

Technical

- SAE-mounted
- 12 volt, electric start with control panel
- Skid- or trailer-mounted with lifting bale
- 24-hour minimum capacity fuel tank
- Compressor/Venturi automatic priming system
- Electric drive option available

Material Specifications

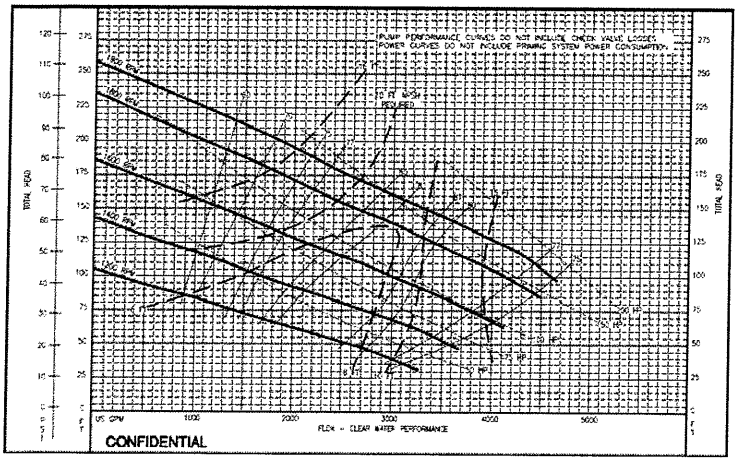
- Standard Build – ASTM A48 CLASS 30 Gray Iron volute Enclosed 2 vane non-clog impeller and replaceable wear rings
- Pump Shaft
  LaSalle 1144 stress proof steel
- Mechanical Seal
  Tungsten carbide vs. silicon carbide mating faces
  Oil-bath lubrication for dry running
- Suction / discharge flanges ANSI 150# FF



Rain for Rent
P.O. Box 2248
Bakersfield CA 93303
800-742-7246
661-393-1542
FAX 661-393-1542
www.rainforrent.com
info@rainforrent.com

SA DV-200c Technical Specifications

Production Curve



Performance Specs

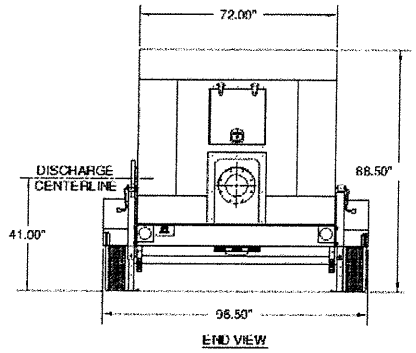
2 VANE NON-CLOG IMPELLER	
Minimum Operating Speed:	1600 rpm
Maximum Operating Speed:	1900 rpm
Maximum Head:	260 ft.
Maximum Flow:	4600 gpm

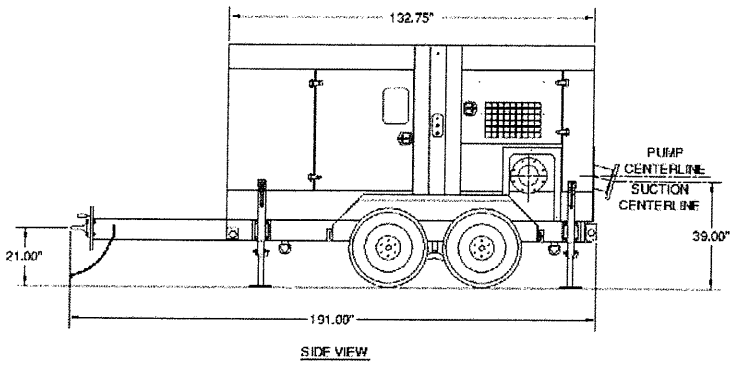
Design Details

Pump Designation:	SA-DV200C
Pump Description:	Centrifugal end suction pump, single stage, volute type, 2 vane non-clog impeller
Noise Levels	Quiet operation with noise levels as low as 72 dB(A) at 7m (23ft)
Solid Handling Size:	Up to 3.375inches (45mm)
Operating Temperature	MIN: -4°F (-20°C) - MAX: +212°F (+100°C)

Rain for Rent
P.O. Box 2248
Bakersfield CA 93303
800-742-7246
661-399-9124
FAX 661-393-1542
www.rainforrent.com
info@rainforrent.com

Dimensions





APPENDIX F: SERVICE FEES

CITY OF QUINCY, MASSACHUSETTS
Department of Public Works

City of Quincy
DPW

Thomas P. Koch
Mayor

Alfred J. Grazioso
Commissioner

SCHEDULE FOR WATER & SEWER
CALENDAR YEAR – 2018
(EFFECTIVE JULY 1, 2018)

WATER USAGE:	**$6.67 per hundred cubic feet**
SEWER USAGE:	**$14.24 per hundred cubic feet**

New Connection Charge, one time administrative fee	$75.00
Application and inspection of a new connection to the water system	$300.00
Application and inspection of a new connection to the sewer system	$300.00

Unauthorized Sewer Connection **$5,000**
Unauthorized connection to the sewer system for which an application was not submitted and approval was not granted by the Commissioner of Public Works.

Unauthorized Sewer Use
Any discharge to the sewer system that does not come from an approved connection. Examples would be dumping of waste directly into the sewer system via a sewer manhole, a sump pump that drains directly into the sewer, or downspouts from gutters that drain directly into the sewer system.

1st Offense	$500.00
2nd Offense	$1,000.00
3rd Offense	$2,500.00

Sewer Pipe Inspection $200 per day - Site visit to inspect sewer connections.

Denial of Access to Premise/Property $25.00 per visit
Site visit necessary to determine the extent and cause of a sewer system issue and access has been denied by the customer or the property owner(s).

Private Infrastructure Analysis - Cost of Labor & Materials
Inspection and/or analysis of a private sewer. The property owner(s) will be responsible for reimbursing the Sewer Department for the cost of labor and materials used.

Private Infrastructure Repair - Cost of Labor & Materials
Repair by the City of a private sewer. The property owner(s) will be responsible for reimbursing the Sewer Department for the cost of labor and materials used.

Lateral Maintenance-Residential (4 units or fewer) - $375.00
Property owner(s) are responsible for maintenance and repair of the sewer line between their foundation and the edge of the sidewalk. In the event that cleaning of the sewer line is required, the City will clean out the sewer line once per fiscal year at no cost to the customer. Property owner(s) will be charged for subsequent cleanings.

Lateral Maintenance-Large Residential and Mixed Use Residential (5 units or more) **$500 or $250** per hour whichever is greater. The property owner(s) are responsible for maintenance and repair of the sewer line between their foundation wall and the edge of the sidewalk. Upon request, the City will clean the sewer line for the charge identified above.

55 Sea Street, Quincy, MA 02169-2572
Telephone: (617) 376-1959 FAX: (617) 376-1969

Lateral Maintenance-Non-residential $1000 or $500/hr, whichever is greater
The property owner(s) are responsible for maintenance and repair of the sewer line from their foundation wall to the point where the line connects to the sewer main (generally in the center of the street). Upon request, the City will clean the sewer line for the charge identified above.

Lateral Repair or Replacement - Cost of Labor & Materials
Upon request, the City will repair or replace a lateral sewer line. The property owner will be charged for the cost of labor and materials used.

Prohibited discharges include all substances, waters, or wastes that may harm or interfere with any wastewater system. They include cooking fat, bacon grease, oil, fuel, etc. A complete listing of prohibited discharges can be obtained from the DPW at 55 Sea St.

Prohibited Discharge—Residential and Large Residential or Residential Mixed Use –
First Offense **$1,000.00**

Prohibited Discharge—Residential and Large Residential or Residential Mixed Use –
2nd Offense **$2,500.00**

Prohibited Discharge—Residential and Large Residential or Residential Mixed Use –
3rd and subsequent Offenses **$5,000.00**

Prohibited Discharge—Non-residential First Offense -	$2,500.00
Prohibited Discharge—Non-residential 2nd Offense -	$5,000.00
Prohibited Discharge—Non-residential - 3rd and Subsequent Offense	$7,500.00
Water Service Turn On/Turn Off	$75.00
Manual Meter Read	$100.00 per billing interval
Water Meter Test – Meter 1” or smaller	$100.00
Water Meter Test – Meter larger than 1”	

If commercial customer fails to comply with city’s request to test meter, then the city is authorized to engage a private vendor
to disassemble and test the meter and charge the cost of same to commercial customer

Meter Freeze Up	$100.00 plus cost of meter
Damaged, tampered, or missing meter	$150.00 plus cost of meter
Damaged, tampered, or missing meter reading device	$175.00 which includes replacement of meter reading device

Valve Replacement	$150.00 which includes labor, parts and valves
Lawn Service Application	$75.00
Water Service Application – 1” or smaller	$75.00
Water Service Application - $1^1/_4$” to 3”	$100.00
Water Service Application - 4” or larger	$150.00
Unauthorized Water Connection	$550.00 plus cost of meter

Massachusetts Water Resource Authority Special Assessment Water Service Line Leak Repair
After notice to customer to repair a leak on the customer’s property, if customer does not repair same, then the city shall complete the repairs and charge the customer for the cost of said labor.

Fire Service Application	$300.00
Fire Flow Test Observation and Assistance	$250.00

55 Sea Street, Quincy, MA 02169-2572
Telephone: (617) 376-1959 FAX: (617) 376-1969

Hydrant Meter Application	$75.00
Hydrant Meter Deposit – Meter 1” or smaller	$500.00 Deposit
Hydrant Meter Deposit – Meter larger than 1”	$3,500.00
Hydrant Meter **Late Return**	$10.00 per **calendar day**
Hydrant Meter Service	$100.00
Hydrant Meter – Minimum Monthly Usage - 5/8” meter	$75.00 per month
Hydrant Meter – Minimum Monthly Usage - 3/4” & 1” meter	$100.00 per month
Hydrant Meter – Minimum Monthly Usage - Meter larger than 1”	$300.00 Minimum Monthly Usage
Unauthorized Hydrant Use – 1st Offense	$1,000.00
Unauthorized Hydrant Use – 2nd Offense	$5,000.00

Cross Connection/New Construction – Initial Survey $200.00
Backflow Prevention Device Test & Inspection – Double Check Valve $75.00
Backflow Prevention Device Test & Inspection – Reduced Pressure Devices (each) - First five (5) $100.00
Backflow Prevention Device Test & Inspection – Reduced Pressure Devices (each) - Next ten $50.00 each
Backflow Prevention Device Test & Inspection – Reduced Pressure Devices (each) - Sixteen or more $25.00

Water/Sewer Pipe Inspection – single instance $600.00 Combined Inspection
Water/Sewer Pipe Inspection – multi-day $100.00 per day

Denial of Access to Premises/Property $25.00 per visit
Private Infrastructure Analysis - Cost of analysis/leak detection charged to customer
Private Infrastructure Repair - Cost of repair: including labor, repair and materials

Street/Sidewalk Opening Application	$75.00
Water Testing	$25.00
Final Meter Read	$50.00

55 Sea Street, Quincy, MA 02169-2572
Telephone: (617) 376-1959 FAX: (617) 376-1969

APPENDIX G: AIR RELEASE VALVE (ARV) MAINTENANCE PLAN

APPENDIX H: FATS, OILS, AND GREASE PROGRAM MANUAL

Fats, Oils, and Grease (FOG)

Self-Assessment Memorandum

980 Washington Street, Suite 325
Dedham, MA 02026
800-466-5518

232464
City of Quincy, MA
September 2021

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1. INTRODUCTION

1.1 BACKGROUND

As requested in Paragraph 19c of the City's Consent Decree (Civil Action 1:19-CB-10483-RGS), this memorandum describes the City's self-assessment of their fats, oils, and grease (FOG) program.

The U.S. Environmental Protection Agency (EPA) established the National Pollutant Discharge Elimination System (NPDES) permit program as part of the Clean Water Act (CWA) to regulate discharges to surface waters. One component of the NPDES permit program is the EPA's National Pretreatment Program, which was developed to prevent discharges that could interfere with operation of the Publicly Owned Treatment Works (POTW) or pass through the treatment facility untreated and pollute receiving waterways. EPA requires local POTWs to establish individual pretreatment programs to enforce national pretreatment standards and regulate discharges from industrial and commercial (i.e. non-residential) users. See Appendix A for the EPA FOG Guidance Manual.

The City of Quincy, Massachusetts (City) operates a sewer collection system that flows to the Massachusetts Water Resources Authority (MWRA) wastewater treatment facility (WWTF) in Boston, Massachusetts. The City is required under EPA's National Pretreatment Program and MWRA's Industrial Pretreatment Program (IPP) to regulate the discharge of fats, oils, and grease (FOG) from food service establishments (FSEs) that can cause obstructions in the sewer collection system and MWRA's treatment facility.

The FOG Program described herein is based on current regulatory requirements and applies to all FSEs within the City. This Manual includes or references legal authority, statement of responsibilities, FOG control equipment installation and maintenance, City inspections, public education, and training. The FOG Program is managed by the Water, Sewer and Drain Department with assistance from the Inspection Services Department for inspecting FSEs and overseeing enforcement actions as an agent to the Health Department.

1.2 WHAT IS "FOG"?

FOG refers collectively to the fats, oils, and grease found in most residential kitchens and commercial FSEs. Many foods that are processed and served contain FOG, including:

- Meat fats & lard
- Cooking oil
- Butter, cheese & other dairy products
- Baked goods
- Sauces

Figure 1-1: FOG Buildup in a Quincy Sewer Pipe

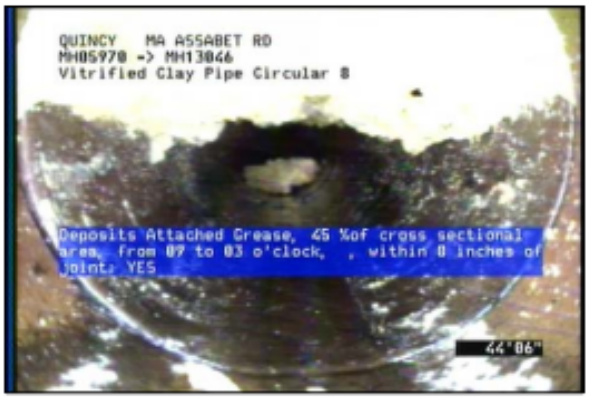


Photo:
MH05970_MH13046_18082017_DAGS_44.5341_143824.jpg,
VCR No.: 191-071917, 01:20:40
44.53FT, Deposits Attached Grease, 45 %of cross sectional area, from 09 to 03 o'clock, , within 8 inches of joint: YES

1.3 IMPORTANCE OF LIMITING FOG

The City of Quincy's Sewer Use Ordinance prohibits the discharge of "substances, waters or wastes that may harm or interfere with any wastewater system. They include cooking fat, bacon grease, oil, fuel, etc. A complete listing of prohibited discharges

can be obtained from the DPW at 55 Sea St".[1] FOG that is released into sewers can coagulate and congeal into a hardened layer on the inside of pipes, as seen in Figure 1-1 – *FOG Buildup in a Quincy Sewer Pipe*, and buildup in wastewater pump stations or treatment facilities. The restriction of wastewater flow caused by FOG buildup can lead to sanitary sewer overflows (SSOs), which can flood commercial and residential properties, impact streets and the surrounding environment, and result in public health hazards and property damage. FOG can also expedite the deterioration of wastewater equipment and encourage rodent colonization. These negative consequences often result in financial ramifications for the City by adding additional equipment maintenance and wastewater treatment costs.

Byproducts from food preparation activities at commercial FSEs represent a significant portion of FOG wastes entering sewer collection systems each year, with annual production ranging from 800 to 1,700 pounds per year per restaurant.[2] FOG management practices, such as installing grease interceptors to capture FOG prior to discharge into the collection system, help to mitigate negative consequences such as SSOs and equipment failure by limiting the amount of oil and grease entering the collection system and WWTF. Preventing FOG from entering the collection system is more economical than managing FOG after it enters the collection system.

1.4 CONSENT DECREE AND THE PURPOSE OF THIS MEMORANDUM

On June 9, 2021 the EPA and City entered into a Consent Decree (a legally binding, negotiated agreement to resolve the alleged violation to the CWA). The EPA alleges that the City is violating the CWA by discharging sewage and untreated wastewater into the Boston Harbor, Dorchester Bay, Quincy Bay and other waterways from the City's sanitary sewer and storm drain systems.

The Consent Decree alleges that SSOs in the City occur due to blockages in the collection system. These blockages may be the result of FOG entering into the system from residential, commercial, or industrial sources. The City's FOG program is intended to meet the standards of national and local pretreatment programs, as well as requirements of the pending Consent Decree.

The purpose of this memorandum is to be used as an attachment to the City's Capacity, Management, Operations and Maintenance (CMOM) Self-Assessment Checklist that provides an assessment of the City's existing FOG program which, at a minimum, includes evaluation of the following Consent Decree requirements:

1. Specific requirements for the installation or upgrade of FOG control equipment at all food preparation establishments.
2. Provisions for periodic and random FOG equipment inspections by the City.
3. Enforcement procedures for non-compliant facilities including the ability to assess fines for violations of the program/permit/ordinance.
4. A public education program targeted at FOG facilities.
5. Necessary modification to local regulations, including the City's sewer use ordinances, to allow full enforcement of the FOG Program including standard operating procedures for escalating enforcement from warnings through penalties.
6. An explanation of which department(s) within the City has (have) the authority and will be responsible for (a) managing, (b) inspecting, and (c) enforcing the FOG Program.
7. A list of all food preparation establishments that includes average daily discharge volume.

[1] 2018 Sewer Use Ordinance Update
[2] p. 2 U.S. EPA Office of Water "Controlling Fats, Oils, and Grease Discharges from Food Service Establishments"

2. ASSESSMENT OF THE CITY'S EXISTING FOG PROGRAM

The City conducts its FOG inspection, management, operation, and enforcement primarily through the City's Sewer Use Ordinance and 2018 Updated Rate Sheet (Appendix B and Appendix C respectively). The FOG program is compliant with both Quincy Sewer Use Ordinances and MWRA. The MWRA follows the Code of Massachusetts Regulations, commonly known as CMRs. FOG requirements are outlined in 360 CMR 10.017 – Grease Traps and Grease Interceptors and 360 CMR 10.023 – Specific Prohibition (Appendix D).

2.1 EXISTING PROVISIONS FOR INSPECTIONS/MAINTENANCE OF FOG CONTROL DEVICES AT FPES

The Quincy Health Department performs biannual inspections of the City's FSEs. These reports have a FOG control device inspection component that includes determining which restaurants have grease traps, as well as an inspection of the sanitary condition of the traps and whether the facility has a grease log of when they were last serviced. The Health Department conducts inspections with a frequency based on the past performance, type, and size of the FSE, as well as the risk it poses to the serviced population. Existing Provisions for Enforcement Including Fines and Penalties are outlined in the City's 2018 sewer use ordinance (SUO) Update as:

- Unauthorized Sewer Connection (Unauthorized connection to the sewer system for which an application was not submitted and approval was not granted by the Commissioner of Public Works): $5,000.00
- Unauthorized Sewer Use (Any discharge to the sewer system that does not come from an approved connection. Examples would be dumping waste directly into the sewer system via a sewer manhole, a sump pump that drains directly into the sewer, or downspouts from gutters that drain directly into the sewer system):
    - 1st Offense: $500.00
    - 2nd Offense: $1,000.00
    - 3rd Offense: $2,500.00
- Prohibited Discharge – Residential and Large Residential or Residential Mixed Used
    - 1st Offense: $1,000.00
    - 2nd Offense: $2,500.00
    - 3rd and Subsequent Offense: $5,000.00
- Prohibited Discharge – Non-resident
    - 1st Offense: $2,500.00
    - 2nd Offense: $5,000.00
    - 3rd and Subsequent Offence: $7,500.00

2.2 EXISTING PUBLIC EDUCATION PROGRAM

The City provides general awareness brochures annually that are inserted into residential water and sewer bills to improve awareness of FOG-related issues. See Appendix E for an example FOG Public Education Brochure.

2.3 PARTIES RESPONSIBLE FOR EXECUTION OF THE PROGRAM

The City's Health Department (or its assigns) is designated to administer the FOG Ordinance. Additional responsible parties are listed in Table 2-1 – *Responsible Parties for Implementing FOG Program*. The current FOG Ordinance can be found in Appendix B.

Table 2-1: Responsible Parties for Implementing FOG Program

Primary Responsible Party	Responsibilities
Health Department	- Administers FOG Ordinance
Water, Sewer and Drain Director of Operations	- Manages FOG Program, conducts technical review of FOG Permit applications, and issues FOG Permits to FSEs - Schedules and conducts training - Manages maintenance of sewer infrastructure - Manages enforcement actions - Conducts abatement activities
Inspectional Services Director	- Coordinates with the Health Department and Department of Public Works - Manages building inspections and code enforcement
Food Inspector	- Conducts periodic and random inspections of FSEs - Notifies FSEs of local and federal pretreatment requirements

2.4 FOOD PREPARATION ESTABLISHMENTS WITH AVERAGE DAILY DISCHARGE

A complete list of FSE's, their water consumption and wastewater discharge flows can be found in Appendix F.

3. FOG PROGRAM RECOMMENDATIONS

3.1 RECOMMENDATIONS FOR INSTALLATION/UPGRADE OF FOG CONTROL EQUIPMENT

Grease traps and interceptors are plumbing devices that intercept the majority of greases and solids before they are introduced into the sewer system. Grease traps, described in Section 3.1.1, are hydromechanical units designed for handling flows up to 50 gallons per minute (gpm) that are installed indoors. Grease interceptors, described in Section 3.1.2, are larger units installed outdoors under the ground surface and designed for flow greater than 50 gpm. Both types of devices must be inspected and cleaned on a regular basis to be in continuously effective operation.

An existing FSE is required to verify that the establishment's FOG control device meets current regulations and standards. If an existing FOG control device is determined to be under-sized, substandard, or inadequately maintained to prevent FOG from entering the sewer system, the FSE will be required to upgrade their device to meet the City's new FOG Ordinance and FOG Program requirements.

3.1.1 Grease Traps

A grease trap is an interior single compartment hydromechanical device, typically constructed from stainless steel that is designed to retain grease from one or more fixtures. As shown in Figure 3-1 – Typical Interior Hydromechanical Grease Trap, these traps use air entrapment, grease's buoyancy in water, and hydromechanical separation to continuously separate FOG from water. Grease traps are installed indoors as near as possible to the source of wastewater and have a maximum rated flow of 50 gpm. Up to four fixtures may be attached to a single grease trap.

The design, sizing, and testing of grease traps are regulated by 248 CMR 10.09 of the State Uniform Plumbing Code based on the flow rate expressed in gpm; refer to Appendix G for an excerpt of the Code and Appendix H for recommended grease trap sizing procedures. Additional performance standards for hydromechanical grease traps include the Plumbing and Drainage Institute (PDI) Standard PDI-G101 and American Society of Mechanical Engineers (ASME) Standard A112.14.3.

Figure 3-1: Typical Interior Hydromechanical Grease Trap

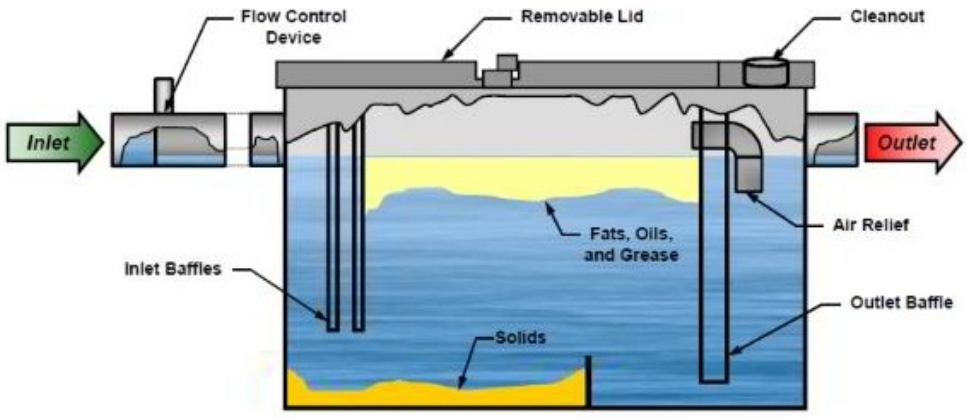


Image from www.inspectapedia.com

3.1.2 Grease Interceptors

A grease interceptor is an outdoor multi-compartment device, typically constructed of concrete or stainless steel, which relies solely on gravity to retain grease from one or more fixtures. Grease interceptors are installed below grade outside the building and are significantly larger than interior grease traps to allow for flow rates exceeding 50 gpm. As shown

in Figure 3-2 – *Typical Exterior Gravity Grease Interceptor*, the larger volume of these units increases the retention time of influent water, giving the buoyancy of the FOG in wastewater enough time to achieve separation from the flow stream.

The design, sizing, and testing of grease interceptors are regulated by 248 CMR 10.09 of the State Uniform Plumbing Code based on effective capacity expressed in gallons; refer to Appendix G for an excerpt of the Code and Appendix H for recommended grease interceptor sizing procedures. Additional design standards for gravity grease interceptors include the American Society for Testing and Materials (ASTM) International F2649 Standard Specification for Corrugated High-Density Polyethylene (HDPE) Grease Interceptor Tanks and the International Association of Plumbing and Mechanical Officials (IAPMO) Standard Z1001.

Figure 3-2: Typical Exterior Gravity Grease Interceptor

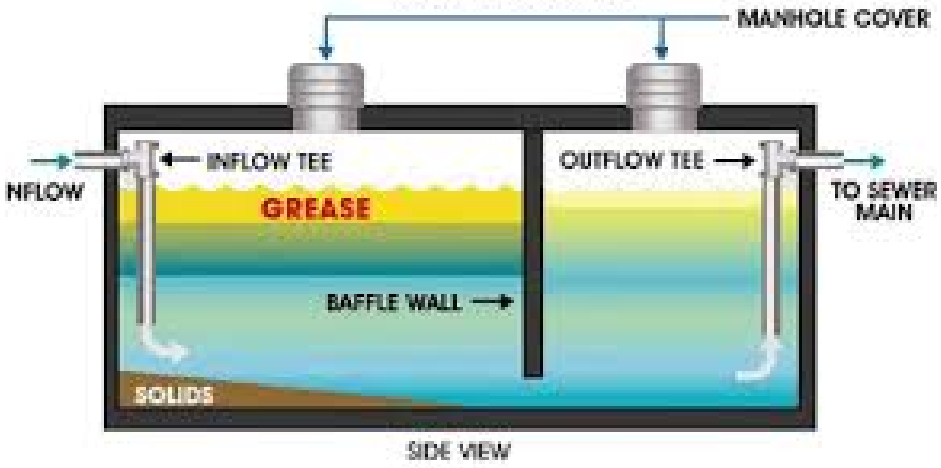


Image from www.eastonutilities.com

3.2 RECOMMENDATIONS INSPECTIONS/MAINTENANCE OF FOG CONTROL DEVICES AT FSE

3.2.1 General Requirements for Food Service Establishments

Grease traps and interceptors must be inspected and cleaned regularly in order to maintain their effectiveness and prevent discharge of FOG into the collection system. Inspections must be completed on a routine basis (either annually for grease traps or monthly for grease interceptors) by properly trained FSE employees. In addition to routine inspections, a qualified professional must inspect all grease traps/interceptors at least once per year. See Appendix I for example inspection and maintenance forms.

Properly trained FSE employees are permitted to conduct routine cleaning and maintenance of grease traps, but only licensed haulers approved by the Health Department may conduct cleaning and maintenance of interceptors. FSEs are required to clean out grease traps and interceptors when FOG and solids accumulate to 25% of the device volume (i.e. the "25% Rule"), or every three months for interceptors, whichever is sooner. FSE Owners must document the recommended cleaning frequency of each grease trap/interceptor installed at the establishment.

All waste oils and collected grease must be either recycled or picked up for disposal by a registered hauler approved by the City. An example Application for Grease Hauler Registration is included in Appendix J.

It is recommended that the FSE Owner witness all grease trap/interceptor cleaning and maintenance activities to verify their FOG control device is operating properly. If the FSE Owner chooses not to witness the grease trap/interceptor

cleaning, another trained FSE employee should be present to witness the cleaning and sign the Grease Trap/Interceptor Cleaning & Disposal Log.

It is strongly recommended that all FSE Owners implement best management practices (BMPs) to improve the performance of installed FOG control devices. BMPs in food preparation and clean up address a wide range of activities beyond routine inspection and maintenance of grease traps/interceptors and following these will be effective in both reducing maintenance costs for business owners as well as preventing FOG discharges into the sewer system. It is important to train kitchen staff and other employees involved with food handling to follow BMPs to reduce FOG discharge to the building drain. Kitchen staff should "Dry Wipe" all pots, pans, and dishware prior to dishwashing and squeegee down the sides of all deep fryers prior to cleaning. Preventing spills and effective spill containment and clean up are also effective ways of reducing FOG discharge. If multiple fryers are in use, develop a rotation system devoting a single fryer for products that are particularly high in deposits and change the oil of that fryer more often. FSE Owners are responsible for posting "No Grease" signs above sinks and on the front of dishwasher to serve as a constant reminder for staff working in kitchen to help minimize FOG discharge to grease traps/inceptors, as well as reduce the cost of cleaning and disposal for FSE Owners. The following must be included near all grease traps installed indoors per the Uniform State Plumbing Code (248 CMR 10.09.2.m.3):

- "A laminated sign shall be stenciled on or in the immediate area of the grease trap or interceptor in letter one-inch high. The sign shall state the following in exact language: **IMPORTANT This grease trap/interceptor shall be inspected and thoroughly cleaned on a regular and frequent basis. Failure to do so could result in damage to the piping system, and the municipal or private drainage system(s)."**

3.2.2 Grease Trap Cleaning Procedure

Grease trap maintenance involves removing the entire volume (both liquids and solids) from the device and properly disposing of the material in accordance with all local, state, and federal laws. When performed at the appropriate frequency, grease trap maintenance can greatly reduce the discharge of FOG into the public sewer system. Pump out schedules should be established and strictly followed to prevent excessive oil and grease loading to wastewater.

Although grease trap maintenance is typically performed by grease haulers or recyclers, indoor grease traps may be maintained by properly trained FSE employees as allowed by the FOG Ordinance. For reference, a typical cleaning procedure for grease traps installed indoors is outlined below. Follow the manufacturer's recommended instructions for the specific device being maintained.

1. To facilitate cleaning, pump out water that has been separated from accumulated grease and solids in the trap. Discharge water to the sanitary sewer system.
2. Remove baffles if possible.
3. Dip the accumulated grease out of the trap and deposit in a watertight container.
4. Scrape or hose down the sides, the lid, and the baffles with a putty knife or scraper to remove as much of the grease as possible. Deposit the grease into a watertight container.
5. Contact an approved hauler or recycler for grease pick up (if one is not already performing the cleaning).
6. Refill the trap with water.
7. Replace the baffle and the lid.
8. Record the volume of grease removed in a Grease Trap/Interceptor Cleaning & Disposal Log.

The following must be included near all grease traps installed indoors per the Uniform State Plumping Code (248 CMR 10.09.2.m.3):

WARNING: Do not use hot water, acids, caustics, solvents, or emulsifying agents when cleaning grease traps.

3.2.3 Recordkeeping

The City's FOG Ordinance requires FSEs to keep records of all employee training, cleaning and inspection activities, and retain these records for inspection by the Health Department for at least three years.

Cleaning and disposal logs should include the following information at a minimum:

- Recommended cleaning frequency
- Date of maintenance
- Name of cleaning service (for interceptors) or FSE employee (for traps) who performed maintenance
- Effective volume taken up by FOG and solids before cleaning
- Gallons pumped
- Signature of cleaner
- Signature of trained FSE employee

Keeping a cleaning log ensures that grease traps/interceptors are inspected and cleaned on a regular basis and documents the frequency and volume of cleaning activities. The cleaning log can also serve as a tool for the FSE Owner to optimize cleaning frequencies and reduce operating costs.

3.3 RECOMMENDATIONS FOR FOG PERMITTING AND INSPECTION

As described in Section 2, the City's FOG Program is managed by the Water, Sewer and Drain Department, with assistance from the Inspectional Services Department for inspecting FSEs and overseeing enforcement actions as an agent to the Health Department.

3.3.1 Annual FOG Permit

It is recommended that all FSEs that use, generate, or store FOG are required to file an annual FOG Permit Application at the time of application for a Food Service Permit. Documentation relating to FOG control devices installed at the FSE must be submitted with the FOG Permit Application for review by the Water, Sewer and Drain Director of Operations before the FOG Permit will be issued. See Appendix K for an example of a FOG Permit Application.

The Food Inspector will not issue a Food Service Permit until the applicant has obtained a completed FOG Permit Application signed by the Water, Sewer and Drain Director of Operations. The City's annual Food Service Permit renewal notice and Procedures for Food Services/Retail Food Establishment checklist will be updated to ensure that FSE Owners are aware of FOG Permit requirements. Example documents are also included in Appendix K.

For FSEs that are not required to apply for a local Food Service Permit (e.g. wholesale food businesses permitted through the State), the Water, Sewer and Drain Department will mail out separate FOG Permit renewal notices. Applications are recommended to be filed on an annual basis.

3.3.2 Temporary Establishments and Events

It is recommended that all temporary FSEs and events that use, generate, or store FOG be required to submit a written FOG Management Plan for review by the Water, Sewer and Drain Department before the Food Inspector will issue a Temporary Food Service Permit. A FOG Management Plan template for temporary FSEs is included in Appendix L.

3.3.3 Mandatory Inspections

The City's Fog Ordinance will have the legal authority for the City to enter and inspect the facilities of every establishment connected to the sewer collection system. The Food Inspector is responsible for conducting random inspections at FSEs to ascertain whether the requirements of the FOG Ordinance are being met. The FOG Ordinance requires that FSE Owners allow City personnel access to the FOG-related equipment at all reasonable times and to all parts of the premises for the purposes of inspection. The City has the right to set up on the user's property such devices as are necessary to conduct sampling, inspection, compliance monitoring and/or metering operations. Denial or unreasonable delay of the City's access to the user's premises is considered a violation of the FOG Ordinance.

Mandatory inspections at FSEs may be required in the event that the Water, Sewer and Drain Department field crews identify excessive FOG during inspection or maintenance of the sewer collection system. The City's field crews will remove FOG from the sewer collection system using the City's jetter trailer, which has a specialized flusher head designed to remove grease from pipes. Once the blockage or buildup is cleared, follow-up closed-circuit television (CCTV) inspection of the sewer line may be conducted to identify the source(s). The Water, Sewer and Drain Director of Operations will notify the Inspectional Services Department to inspect upstream FSEs for suspected noncompliance.

In addition to random mandatory inspections, the Food Inspector will conduct at least one inspection per year at each permitted FSE to verify compliance with FOG control and other food service requirements.

3.4 RECOMMENDATIONS FOR NON-COMPLIANT FACILITIES

3.4.1 Enforcement

Noncompliance with the City's FOG Program will be considered a violation of the national and local pretreatment regulations and may result in escalating enforcement action by the City. The preferred approach to address compliance problems is to pursue voluntary compliance from the FSE Owner. Often, FSE Owners are not aware of problems on their properties that may constitute a violation. In these cases, providing the FSE Owner with information on the problems, reference to any relevant code sections, potential environmental consequences, and suggestions on how to implement corrective actions may be enough to secure voluntary compliance. FSEs found to have improper FOG control will be notified in writing of the deficiencies and required improvements and given a compliance deadline not to exceed six months from the date of notification in accordance with the FOG Ordinance.

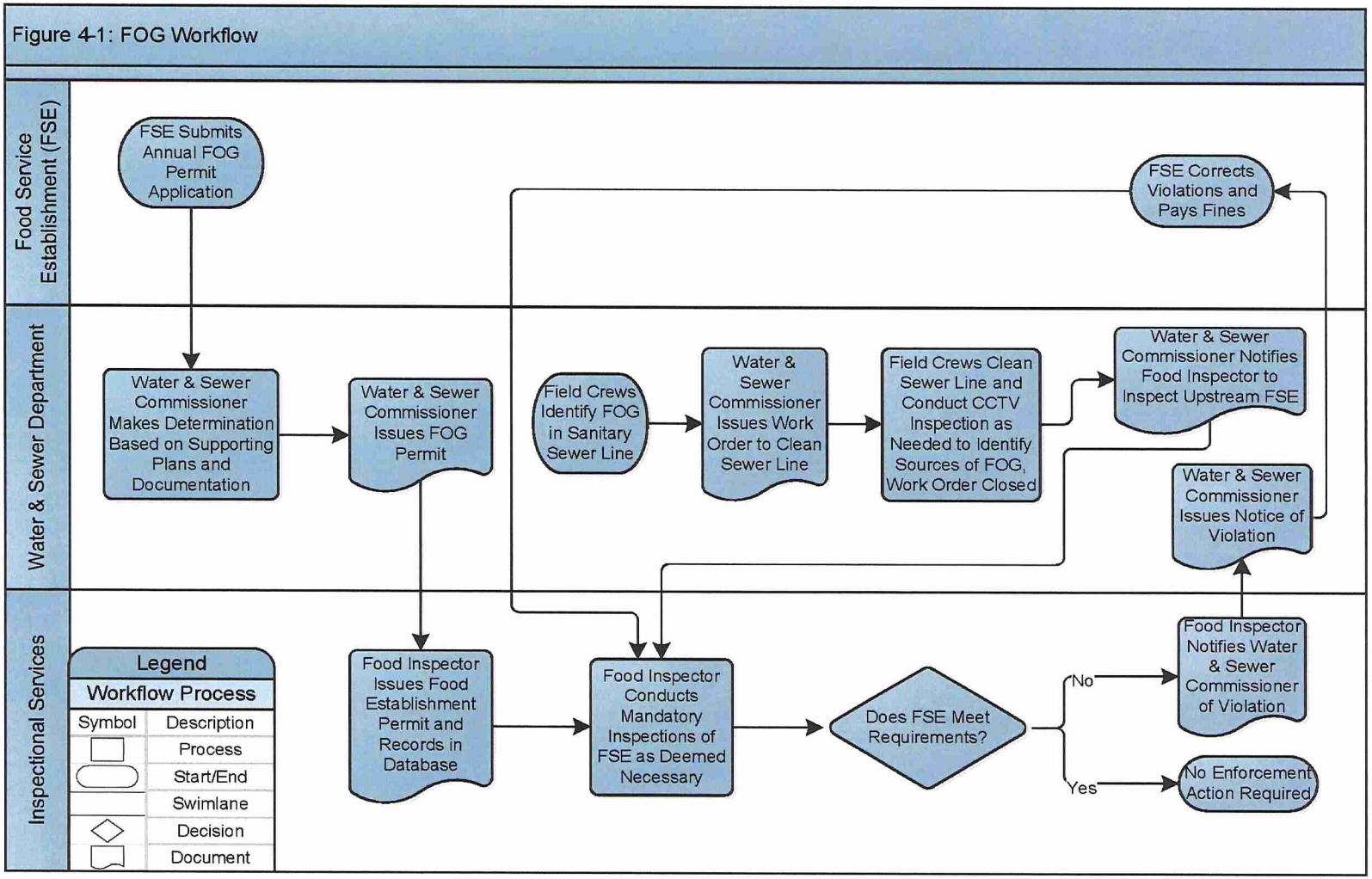
When voluntary compliance cannot be obtained with the allowed timeframe or does not produce the desired result, the City will pursue follow-up enforcement action authorized under its regulatory authority. Enforcement actions will be the responsibility of the Health Department and the Water, Sewer and Drain Director. Violations that are more serious or continued non-compliance may warrant a more aggressive enforcement approach, such as suspending water service, if an "imminent and substantial danger" exists. Table 3-1 – *Enforcement Procedures* outlines detailed enforcement steps.

Table 3-1: Enforcement Procedures

Enforcement Step	Responsibilities
Step 1 – Initial Actions	- Conduct onsite compliance meeting with FSE Owner to document and discuss violations - Set compliance date (determined on an individual basis) - Educate FSE Owner - Encourage voluntary compliance
Step 2 – Follow-up Actions	- Conduct site visit as needed to verify compliance and completion of work - Send "notice of violation" letter[1], as specified in the FOG Ordinance, indicating unresolved issues will be referred to prosecutor - Request evidence of corrected problem
Step 3 – Final Actions	- Send second "notice of violation" letter[1] - Prosecutor to commence fines in accordance with the FOG Ordinance

[1] Document copies of all written notifications.

Figure 4-1: FOG Workflow



3.5 RECOMMENDATIONS FOR TRAINING AND A PUBLIC EDUCATION PROGRAM TARGETED AT FOG FACILITIES

3.5.1 Annual Employee Training

Employee training will be an important component of the City's FOG Program. City staff responsible for implementing the FOG Program, including those that review grease trap/interceptor plans and documentation, notify FOG Permit applicants, spend time doing site inspections or maintain tracking database, will be trained to conduct these activities, perform thorough site inspections, identify FOG control problems, recognize violations, and document findings.

Training will be conducted annually and as needed for staff turnover. Topics may vary each year based on staffing education needs.

3.5.2 Public Education Program

A Public Education Program will be implemented to educate FSE Owners and residents on the impacts of FOG and assist them with implementing BMPs to improve the public sewer system and maintain compliance with the City's FOG Ordinance. Messaging revolves around the elimination of SSOs that can pose a threat to public health. Educational materials will be available at no charge at the Water, Sewer and Drain Department office in Public Works Building.

3.5.2.1 FOG Outreach for Food Service Establishments

The City will inform FSEs of their obligations under the City's FOG Ordinance via an informational brochure that includes Frequently Asked Questions (FAQs) about FOG control devices and local regulations. The City will also provide "No Grease" signs and BMP poster templates for FSEs to use and post in the establishments to educate employees of BMPs for FOG control. See Appendix E for example outreach materials. FSEs targeted under this Program will include retail food establishments, schools, day care centers, food banks and pantries, and other businesses with the potential to discharge FOG into the public sewer system. The City maintains a current list of FSEs in the Inspectional Services Department, which will be used to target materials distribution. A list of FSEs with estimated average daily discharge volumes was previously submitted to EPA.

3.5.2.2 FOG Outreach for General Public

The City will provide a general awareness of BMPs relating to FOG control on the Water, Sewer and Drain Department website and in the City's Annual Drinking Water Quality Report. The City also plans to develop targeted educational brochures for the public that will be inserted into residential water and sewer bills to improve awareness of FOG-related issues.

4. REFERENCES

American Society of Mechanical Engineers (ASME) International, Standard A112.3 – Grease Interceptors (Current Version).

American Society for Testing and Materials (ASTM) International, Standard F2649 – Standard Specification for Corrugated High Density Polyethylene (HDPE) Grease Interceptor Tanks (Current Version).

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International Association of Plumbing and Mechanical Officers (IAPMO), Standard Z1001 – Prefabricated Gravity Grease Interceptors (Current Version).

Town of Billerica Department of Public Works Wastewater Division and Billerica Health Department, 2014. *Fats, Oils and Grease (FOG) Control Program Guidance Manual;* March. http://www.town.billerica.ma.us/DocumentCenter/View/2465 Accessed 05 May 2015.

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APPENDIX A: EPA FOG GUIDANCE

National Pretreatment Program

(40 CFR 403)

Controlling Fats, Oils, and Grease Discharges from Food Service Establishments

Summary

The National Pretreatment Program provides regulatory tools and authority to state and local POTW pretreatment programs for eliminating pollutant discharges that cause interference at POTWs, including interference caused by the discharge of Fats, Oils, and Grease (FOG) from food service establishments (FSE). More specifically, the Pretreatment Program regulations at 40 CFR 403.5(b)(3) prohibit "solid or viscous pollutants in amounts which will cause obstruction" in the POTW and its collection system.

What is the environmental problem with FOG discharges into sewers?

EPA's Report to Congress on combined sewer overflows (CSOs) and sanitary sewer overflows (SSOs) identified that "grease from restaurants, homes, and industrial sources are the most common cause (47%) of reported blockages. Grease is problematic because it solidifies, reduces conveyance capacity, and blocks flow." See Impacts and Controls of CSOs and SSOs, EPA-833-R-04-001, August 2004.

Controlling FOG discharges will help POTWs prevent blockages that impact CSOs and SSOs, which cause public health and water quality problems. Controlling FOG discharges from FSEs is an essential element in controlling CSOs and SSOs and ensuring the proper operations for many POTWs. The interference incidents identified in CSO/SSO report to Congress may indicate the need for additional oversight and enforcement of existing regulations and controls. See 71 FR 76660 (21 December 2006).

What is the source of FOG at Food Service Establishments?

FOG wastes are generated at FSEs as byproducts from food preparation activities. FOG captured on-site is generally classified into two broad categories: yellow grease and grease trap waste. Yellow grease is derived from used cooking oil and waste greases that are separated and collected at the point of use by the food service establishment.

The annual production of collected grease trap waste and uncollected grease entering sewage treatment plants can be significant and ranges from 800 to 17,000 pounds/year per restaurant.

What is the legal authority for POTWs to require FSEs to control FOG discharges?

The National Pretreatment Program already provides the necessary regulatory tools and authority to local pretreatment programs for controlling interference problems. Under the provisions of Part 403.5(c)(1) & (2), in defined circumstances, a POTW must establish specific local limits for industrial users to guard against interference with the operation of the municipal treatment works. See 46 FR 9406 (28 January 1981).

Consequently, pretreatment oversight programs should include activities designed to identify and control sources of potential interference and, in the event of actual interference, enforcement against the violator.

What can FSEs do to control FOG discharges?

Food service establishments can adopt a variety of best management practices or install interceptor/collector devices to control and capture the FOG material before discharge to the POTW collection system.
For example, instead of discharging yellow grease to POTWs, food service establishments usually accumulate this material for pick up by consolidation service companies for re-sale or re-use in the manufacture of tallow, animal feed supplements, bio-fuels, or other products.

Additionally, food service establishments can install interceptor/collector devices (e.g., grease traps) in order to accumulate grease on-site and prevent it from entering the POTW collection system.

How should FSEs design and maintain their FOG controls?

Proper design, installation, and maintenance procedures are critical for these devices to control and capture the FOG. For example,

- Interceptor/collector devices must be designed and sized appropriately to allow FOG to cool and separate in a non-turbulent environment.
- FSE must be diligent in having their interceptor/ collector devices serviced at regular intervals.

The required maintenance frequency for interceptor/collector devices depends greatly on the amount of FOG a facility generates as well as any best management practices (BMPs) that the establishment implements to reduce the FOG discharged into its sanitary sewer system.

In many cases, an establishment that implements BMPs will realize financial benefit through a reduction in their required grease interceptor and trap maintenance frequency.

What are some POTWs doing today to control FOG discharges from FSEs?

A growing number of control authorities are using their existing authority (e.g., general pretreatment standards in Part 403 or local authority) to establish and enforce more FOG regulatory controls (e.g., numeric pretreatment limits, best management practices including the use of interceptor/collector devices) for food service establishments to reduce interferences with POTW operations (e.g., blockages from fats, oils, and greases discharges, POTW treatment interference from Nocardia filamentous foaming, damage to collection system from hydrogen sulfide generation).

For example, since identifying a 73% non-compliance rate with its grease trap ordinance among restaurants, New York City has instituted a $1,000-per-day fine for FOG violations.

Likewise, more and more municipal wastewater authorities are addressing FOG discharges by imposing mandatory measures of assorted kinds, including inspections, periodic grease pumping, stiff penalties, and even criminal citations for violators, along with ‘strong waste’ monthly surcharges added to restaurant

sewer bills. Surcharges are reportedly ranging from $100 to as high as $700 and more, the fees being deemed necessary to cover the cost of inspections and upgraded infrastructure.

Pretreatment programs are developing and using inspection checklists for both food service establishments and municipal pretreatment inspectors to control FOG discharges. Additionally, EPA identified typical numeric local limits controlling oil and grease in the range of 50 mg/L to 450 mg/L with 100 mg/L as the most common reported numeric pretreatment limit.

How can CMOM help control FSE FOG discharges?

EPA expects that blockages from FOG discharges will decrease as POTWs incorporate FOG reduction activities into their Capacity, Management, Operations, and Maintenance (CMOM) program and daily practices. CMOM programs are comprehensive, dynamic, utility specific programs for better managing, operating and maintaining sanitary sewer collection systems, investigating capacity constrained areas of the collection system, and responding to SSOs.

Collection system owners or operators who adopt FOG reduction activities as part of their CMOM program activities are likely to reduce the occurrence of sewer overflows and improve their operations and customer service.

Where can I get more information?

For more information on developing local limits is in the Local Limits Development Guidance, EPA-833-R-04-002A, July 2004, and EPA's Pretreatment Web site, http://cfpub.epa.gov/npdes/home.cfm?program_id=3.

CMOM information is located in the following document, Guide for Evaluating Capacity, Management, Operation, and Maintenance (CMOM) Programs at Sanitary Sewer Collection Systems, EPA-305-B-05-002, January 2005, http://cfpub.epa.gov/npdes/sso/featuredinfo.cfm.

Additional information is also available from your state or EPA Regional Office.

APPENDIX B: CITY OF QUINCY SEWER USE ORDINANCE

13.08.080 - Particular sewers—Grease traps required when.

The commissioner of public works may at any time require such grease traps to be introduced along the line of any particular sewer, or on the discharge of any fixture connected therewith, as he may deem necessary for the proper maintenance of such particular sewer, or of the common sewers.

(Prior code Ch. 16, § 10)

APPENDIX C: 2018 SEWER USE ORDINANCE RATES UPDATE

CITY OF QUINCY, MASSACHUSETTS
Department of Public Works

City of Quincy
DPW

Thomas P. Koch
Mayor

Alfred J. Grazioso
Commissioner

SCHEDULE FOR WATER & SEWER
CALENDAR YEAR – 2018
(EFFECTIVE JULY 1, 2018)

WATER USAGE:	**$6.67 per hundred cubic feet**
SEWER USAGE:	**$14.24 per hundred cubic feet**

New Connection Charge, one time administrative fee	$75.00
Application and inspection of a new connection to the water system	$300.00
Application and inspection of a new connection to the sewer system	$300.00

Unauthorized Sewer Connection **$5,000**
Unauthorized connection to the sewer system for which an application was not submitted and approval was not granted by the Commissioner of Public Works.

Unauthorized Sewer Use
Any discharge to the sewer system that does not come from an approved connection. Examples would be dumping of waste directly into the sewer system via a sewer manhole, a sump pump that drains directly into the sewer, or downspouts from gutters that drain directly into the sewer system.

1st Offense	$500.00
2nd Offense	$1,000.00
3rd Offense	$2,500.00

Sewer Pipe Inspection $200 per day - Site visit to inspect sewer connections.

Denial of Access to Premise/Property $25.00 per visit
Site visit necessary to determine the extent and cause of a sewer system issue and access has been denied by the customer or the property owner(s).

Private Infrastructure Analysis - Cost of Labor & Materials
Inspection and/or analysis of a private sewer. The property owner(s) will be responsible for reimbursing the Sewer Department for the cost of labor and materials used.

Private Infrastructure Repair - Cost of Labor & Materials
Repair by the City of a private sewer. The property owner(s) will be responsible for reimbursing the Sewer Department for the cost of labor and materials used.

Lateral Maintenance-Residential (4 units or fewer) - $375.00
Property owner(s) are responsible for maintenance and repair of the sewer line between their foundation and the edge of the sidewalk. In the event that cleaning of the sewer line is required, the City will clean out the sewer line once per fiscal year at no cost to the customer. Property owner(s) will be charged for subsequent cleanings.

Lateral Maintenance-Large Residential and Mixed Use Residential (5 units or more) **$500 or $250** per hour whichever is greater. The property owner(s) are responsible for maintenance and repair of the sewer line between their foundation wall and the edge of the sidewalk. Upon request, the City will clean the sewer line for the charge identified above.

55 Sea Street, Quincy, MA 02169-2572
Telephone: (617) 376-1959 FAX: (617) 376-1969

Lateral Maintenance-Non-residential $1000 or $500/hr, whichever is greater
The property owner(s) are responsible for maintenance and repair of the sewer line from their foundation wall to the point where the line connects to the sewer main (generally in the center of the street). Upon request, the City will clean the sewer line for the charge identified above.

Lateral Repair or Replacement - Cost of Labor & Materials
Upon request, the City will repair or replace a lateral sewer line. The property owner will be charged for the cost of labor and materials used.

Prohibited discharges include all substances, waters, or wastes that may harm or interfere with any wastewater system. They include cooking fat, bacon grease, oil, fuel, etc. A complete listing of prohibited discharges can be obtained from the DPW at 55 Sea St.

Prohibited Discharge—Residential and Large Residential or Residential Mixed Use –
First Offense **$1,000.00**

Prohibited Discharge—Residential and Large Residential or Residential Mixed Use –
2nd Offense **$2,500.00**

Prohibited Discharge—Residential and Large Residential or Residential Mixed Use –
3rd and subsequent Offenses **$5,000.00**

Prohibited Discharge—Non-residential First Offense -	$2,500.00
Prohibited Discharge—Non-residential 2nd Offense -	$5,000.00
Prohibited Discharge—Non-residential - 3rd and Subsequent Offense	$7,500.00
Water Service Turn On/Turn Off	$75.00
Manual Meter Read	$100.00 per billing interval
Water Meter Test – Meter 1” or smaller	$100.00
Water Meter Test – Meter larger than 1”	

If commercial customer fails to comply with city’s request to test meter, then the city is authorized to engage a private vendor
to disassemble and test the meter and charge the cost of same to commercial customer

Meter Freeze Up	$100.00 plus cost of meter
Damaged, tampered, or missing meter	$150.00 plus cost of meter
Damaged, tampered, or missing meter reading device	$175.00 which includes replacement of meter reading device

Valve Replacement	$150.00 which includes labor, parts and valves
Lawn Service Application	$75.00
Water Service Application – 1” or smaller	$75.00
Water Service Application - $1^1/_4$” to 3”	$100.00
Water Service Application - 4” or larger	$150.00
Unauthorized Water Connection	$550.00 plus cost of meter

Massachusetts Water Resource Authority Special Assessment Water Service Line Leak Repair
After notice to customer to repair a leak on the customer’s property, if customer does not repair same, then the city shall complete the repairs and charge the customer for the cost of said labor.

Fire Service Application	$300.00
Fire Flow Test Observation and Assistance	$250.00

55 Sea Street, Quincy, MA 02169-2572
Telephone: (617) 376-1959 FAX: (617) 376-1969

Hydrant Meter Application	$75.00
Hydrant Meter Deposit – Meter 1” or smaller	$500.00 Deposit
Hydrant Meter Deposit – Meter larger than 1”	$3,500.00
Hydrant Meter **Late Return**	$10.00 per **calendar day**
Hydrant Meter Service	$100.00
Hydrant Meter – Minimum Monthly Usage - 5/8” meter	$75.00 per month
Hydrant Meter – Minimum Monthly Usage - 3/4” & 1” meter	$100.00 per month
Hydrant Meter – Minimum Monthly Usage - Meter larger than 1”	$300.00 Minimum Monthly Usage
Unauthorized Hydrant Use – 1st Offense	$1,000.00
Unauthorized Hydrant Use – 2nd Offense	$5,000.00

Cross Connection/New Construction – Initial Survey $200.00
Backflow Prevention Device Test & Inspection – Double Check Valve $75.00
Backflow Prevention Device Test & Inspection – Reduced Pressure Devices (each) - First five (5) $100.00
Backflow Prevention Device Test & Inspection – Reduced Pressure Devices (each) - Next ten $50.00 each
Backflow Prevention Device Test & Inspection – Reduced Pressure Devices (each) - Sixteen or more $25.00

Water/Sewer Pipe Inspection – single instance $600.00 Combined Inspection
Water/Sewer Pipe Inspection – multi-day $100.00 per day

Denial of Access to Premises/Property $25.00 per visit
Private Infrastructure Analysis - Cost of analysis/leak detection charged to customer
Private Infrastructure Repair - Cost of repair: including labor, repair and materials

Street/Sidewalk Opening Application	$75.00
Water Testing	$25.00
Final Meter Read	$50.00

55 Sea Street, Quincy, MA 02169-2572
Telephone: (617) 376-1959 FAX: (617) 376-1969

APPENDIX D: CODE OF MASSACHUSETTS REGULATIONS

10.016: Gas/Oil Separators

(1) Garages, parking lots, and places where petroleum-based products are used or stored, where Wastes containing petroleum-based grease in levels above those allowed under 360 CMR 10.023(4), (5), (7), (8), or (10) are produced or stored, or where oily and/or flammable Wastes, sand, or other harmful materials are produced or stored shall have Separators to intercept such substances prior to their discharge to the Authority Sewerage System.
(2) The size, capacity, type, and location of each Separator shall be subject to approval by the Authority.

(3) Separators shall be located to allow ready and easy access for purposes of removing the cover, and for service, maintenance, and inspection.

(4) Separators shall be properly serviced and maintained. The schedule for service and maintenance of a Separator shall be subject to approval by the Authority. The operator of the premises where the Separator is located shall maintain a log describing the date and type of all service and maintenance performed in connection with the Separator, the identity of the Person who performed the service and/or maintenance, the amount of residue removed from the Separator on each date, and the method of disposal of the residue. The log entries shall be maintained for six years and shall be made available for inspection and copying by the Authority.

(5) In addition to complying with 360 CMR 10.000, Separators shall conform to the regulations of the Board of State Examiners of Plumbers and Gas Fitters, 248 CMR 10.00 (State Plumbing Code), and all other applicable laws.

(6) Both the owner of the premises where a Separator is required and the owner and/or operator of the establishment or business conducted on the premises, shall be jointly and severally responsible for installing a Separator acceptable to the Authority and for properly servicing and maintaining the Separator.

10.017: Grease Traps and Grease Interceptors

(1) A Person who is required by Massachusetts law or regulation to have a grease trap or grease interceptor (including by 310 CMR 15.230 and 248 CMR 10.00) shall have grease traps and grease interceptors of the appropriate size, type, construction, and location as required by state law or regulation. Such Person shall assure that its grease traps and grease interceptors are appropriately cleaned and maintained so that they operate efficiently and effectively.

(2) Chemical, biological, or physical means shall not be used to release fats, wax, oil, or grease into the sewer, bypass the trap or interceptor, or otherwise make the trap or interceptor operate less effectively. A chemical or biological agent that the Authority has approved in writing for use in a grease trap or interceptor may be added to a trap or interceptor to convert the fats, wax, oil, and grease in a trap or interceptor to a substance not regulated by 360 CMR 10.021 through 10.024 if the resulting discharge from the trap or interceptor will not cause or contribute to an obstruction or blockage in the sewer or otherwise violate 360 CMR 10.021 through 10.024. Unless so converted, the fats, wax, oil, and grease contents of a grease trap or interceptor shall not be discharged to the sewer system.

10.018: Significant Industrial Users

In addition to the requirements of 360 CMR 10.000, any Person operating a facility in the Authority Sewerage District that is a Significant Industrial User shall comply with the applicable requirements of 40 CFR Part 403, including the reporting requirements of 40 CFR 403.12 and any National Categorical Pretreatment Standard applicable to the facility, including effluent limits and Best Management Practices.

PROHIBITED WASTES AND LOCAL LIMITS

10.021: General Prohibitions

No Person shall discharge or cause or allow to be discharged, directly or indirectly, to the Authority Sewerage System any Wastewater, Sanitary Sewage, or substance that, either singly or

10.023: continued

(10) (a) In the Metropolitan Sewerage Service Area, waters or Wastes containing fats, wax, oil, and grease, in excess of 300 mg/l (based on the materials recovered in the applicable EPA approved procedure, unless otherwise authorized or required by the Authority and EPA), or containing any substance which may solidify or become viscous at temperatures between 32°F (0°C) and 180°F (82°C). Waters or Wastes containing such substances, excluding normal household Waste, shall exclude all visible floating oils, fats and greases. The use of chemical, biological, or physical means to bypass or to release fats, wax, oil, and grease into the sewer is prohibited. If a Person is unable to comply with the 300 mg/l requirement after reasonable pretreatment measures, the Authority may increase the limit on a case by case basis if the Authority and appropriate Municipality are satisfied that such increase will not contribute to nuisance conditions or an adverse impact on the Sewerage System, Receiving Waters, or the Authority's Wastewater Residuals program. In no circumstance will the Authority increase the limit to allow a discharge of more than 300 mg/l of oil or grease of hydrocarbon or petroleum origin, including fuel oil, crude oil, and lubricating oil. The Authority may apply a monetary charge to any increase in the 300 mg/l limit to recover the costs it reasonably expects to incur as a result of the increase.

(b) In the Clinton Sewerage Service Area, waters or Wastes containing fats, wax, oil, and grease in excess of 100 mg/l (based on the materials recovered in the applicable EPA approved procedure, unless otherwise authorized or required by the Authority and EPA), or containing any substance which may solidify or become viscous at temperatures between 32°F (0°C) and 180°F (82°C). Waters or Wastes containing such substances, excluding normal household Waste, shall exclude all visible floating oils, fats and greases. The use of chemical, biological, or physical means to bypass or to release fats, wax, oil, and grease into the sewer is prohibited. If a Person is unable to comply with the 100 mg/l requirement after treatment, the Authority may increase the limit on a case by case basis if the Authority and appropriate Municipality are satisfied that such increase will not contribute to nuisance conditions or an adverse impact on the Sewerage System, Receiving Waters, or the Authority's Wastewater Residuals program. In no circumstance will the Authority increase the limit to allow a discharge of more than 100 mg/l of oil or grease of hydrocarbon or petroleum origin, including fuel oil, crude oil, and lubricating oil. The Authority may apply a monetary charge to any increase in the 100 mg/l limit to recover the costs it reasonably expects to incur as a result of the increase.

(11) Waste or Wastewater discharged through a Bypass, unless such discharge through the Bypass was approved in advance by the Authority, or the discharge through the Bypass is allowed by 40 CFR 403.17 and the Person using the Bypass provided to the Authority the notices required by 40 CFR 403.17.

(12) Any radioactive Waste or isotope with a half-life or concentration in excess of any limit established by federal or state law.

(13) Any Sludge, except from a water treatment plant owned and operated by a municipality, or by a water district created by a special or general act of the Massachusetts Legislature, and when specifically permitted by the Authority pursuant to 360 CMR 10.057.

(14) Any substance, including dye water or any vegetable tanning solution, which causes turbidity or discoloration such that the color of the wastewater at the Authority Sewage Treatment Facility changes noticeably.

(15) Any Slug.

(16) Any Hazardous Waste, or any Wastewater which results from the treatment of Hazardous Waste, and is discharged to the Authority Sewerage System by dedicated pipe, truck, rail, or by other method.

(17) Septage containing Hazardous Waste, Septage from haulers other than those permitted under 360 CMR 10.000, or Septage discharged at a location not designated as a Septage discharge location in the Municipal Permit issued by the Authority to the Municipality where the discharge took place.

10.023: continued

(10) (a) In the Metropolitan Sewerage Service Area, waters or Wastes containing fats, wax, oil, and grease, in excess of 300 mg/l (based on the materials recovered in the applicable EPA approved procedure, unless otherwise authorized or required by the Authority and EPA), or containing any substance which may solidify or become viscous at temperatures between 32°F (0°C) and 180°F (82°C). Waters or Wastes containing such substances, excluding normal household Waste, shall exclude all visible floating oils, fats and greases. The use of chemical, biological, or physical means to bypass or to release fats, wax, oil, and grease into the sewer is prohibited. If a Person is unable to comply with the 300 mg/l requirement after reasonable pretreatment measures, the Authority may increase the limit on a case by case basis if the Authority and appropriate Municipality are satisfied that such increase will not contribute to nuisance conditions or an adverse impact on the Sewerage System, Receiving Waters, or the Authority's Wastewater Residuals program. In no circumstance will the Authority increase the limit to allow a discharge of more than 300 mg/l of oil or grease of hydrocarbon or petroleum origin, including fuel oil, crude oil, and lubricating oil. The Authority may apply a monetary charge to any increase in the 300 mg/l limit to recover the costs it reasonably expects to incur as a result of the increase.

(b) In the Clinton Sewerage Service Area, waters or Wastes containing fats, wax, oil, and grease in excess of 100 mg/l (based on the materials recovered in the applicable EPA approved procedure, unless otherwise authorized or required by the Authority and EPA), or containing any substance which may solidify or become viscous at temperatures between 32°F (0°C) and 180°F (82°C). Waters or Wastes containing such substances, excluding normal household Waste, shall exclude all visible floating oils, fats and greases. The use of chemical, biological, or physical means to bypass or to release fats, wax, oil, and grease into the sewer is prohibited. If a Person is unable to comply with the 100 mg/l requirement after treatment, the Authority may increase the limit on a case by case basis if the Authority and appropriate Municipality are satisfied that such increase will not contribute to nuisance conditions or an adverse impact on the Sewerage System, Receiving Waters, or the Authority's Wastewater Residuals program. In no circumstance will the Authority increase the limit to allow a discharge of more than 100 mg/l of oil or grease of hydrocarbon or petroleum origin, including fuel oil, crude oil, and lubricating oil. The Authority may apply a monetary charge to any increase in the 100 mg/l limit to recover the costs it reasonably expects to incur as a result of the increase.

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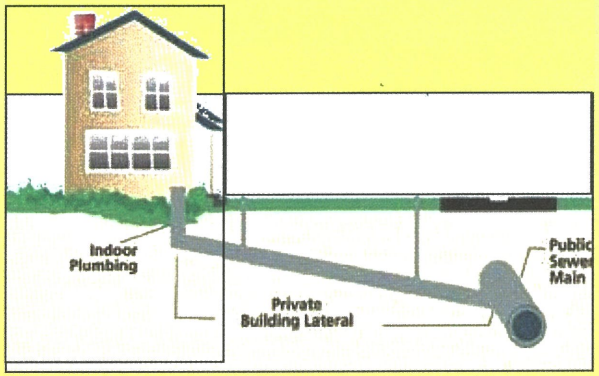
(17) Septage containing Hazardous Waste, Septage from haulers other than those permitted under 360 CMR 10.000, or Septage discharged at a location not designated as a Septage discharge location in the Municipal Permit issued by the Authority to the Municipality where the discharge took place.

APPENDIX E: PUBLIC OUTREACH

With increasingly more rigorous enforcement of environmental regulations by the MA Department of Environmental Protection, it is important for customers to understand that the condition of the sewer lateral is the responsibility of the property owner.

Sewer laterals are the pipes that connect the indoor plumbing to the municipal sewer line. Sewer laterals must allow waste water to flow from the property to the sewer main so that there are no leaks over the distance travelled. Leaks can contaminate both storm drains and water bodies adjacent to the owner's property.



Department of Public Works
55 Sea St.
Quincy MA 02169
617-376-1959
www.quincyma.gov/government/PWD/

ADDITIONAL QUESTIONS?

For more information, contact:
Quincy Department of Public Works - (617) 376-1959

Quincy Sewer Use Ordinance
https://www.municode.com/library/ma/quincy/codes/code_of_ordinances?nodeId=TIT13PUSE_CH13.08SESESY

MWRA Wastewater/FOG Regulations
http://www.mwra.state.ma.us/03sewer/html/trac.htm

其他問題？

欲了解更多訊息，請聯繫
昆士市工務局 — (617) 376-1959

昆士市污水使用條例
https://www.municode.com/library/ma/quincy/codes/code_of_ordinances?nodeId=TIT13PUSE_CH13.08SESESY

麻省水務資源管理局污水部/ 油脂管理條例
http://www.mwra.state.ma.us/03sewer/html/trac.htm

24-Hour

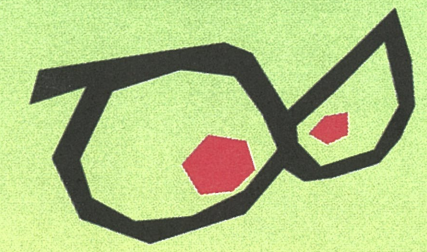
Water, Sewer and Drain

Emergency Hot Line

617-376-1910

DPW

F.O.G.



Fats, Oils and Grease can ruin your day

City of Quincy
Thomas P. Koch, Mayor
Department of Public Works
Daniel G. Raymondi, Commissioner

CLEAN WATER IS EVERYBODY'S BUSINESS

F.O.G. can also ruin your home...

Fats, oils and grease can enter your sewer and drain system when disposed through your sinks, toilets, dishwashers, and garbage disposal.

F.O.G. sticks to the inside of pipes and hardens. It then builds up and reduces the flow capacity of the pipe which greatly increases the chance of unsanitary sewer back-ups directly into your home. The consequence of F.O.G. in your plumbing can also be very costly. Replacement of plumbing, floors, carpet and walls can cost tens of thousands of dollars. In addition, noxious sewer fumes and human waste in your home may pose serious health risks to your entire family.

A Sewer Operations technician removes debris from a sewer.

And that's just the tip of the iceberg.

The City of Quincy and Water and Sewer rate payers spend tens of thousands of dollars each year repairing and replacing expensive equipment underground and in our sanitary sewer pump houses as a result of F.O.G. being improperly deposited into sewer drains.

It's against the law.

According to the Sewer Use Rules & Regulations you can be fined up to $1,000 for the first offense. In addition, users may be required to install monitoring equipment as determined by the Department of Public Works and/or the Health Department.

Sewer Operations technicians prepare a closed circuit TV camera to look for prohibited discharges such as fats, oils and grease.

DO's and DON'TS

Do not dump fats, oils or grease into any drain or toilet.

Do not place greasy food waste into a garbage disposal.

Do not use chemicals that claim to dissolve grease in drains.

Do collect waste fats, oils and grease in a container until they harden, then throw them in the trash.

Do dry wipe pots, pans and work areas prior to washing.

✓	✗
進行清洗前，先將鍋、鏟及工作間地方抹乾	不要把餘糧直接倒入任何排水道
食物渣滓需直接扔進垃圾桶棄掉	不要把油膩的食物殘渣倒進水槽垃圾處理器
廢油需收集作回收或由合資格的油脂運送商處置	不要將廢油或油膩物直接掉入任何排水道
水槽內的清潔墊需要清洗	清洗地墊的水不得流入排水道
油隔及截油器需保持乾淨	不要使用聲稱能溶解水渠內油脂的化學品

APPENDIX F: FOOD SERVICE ESTABLISHMENT AND WATER CONSUMPTION LIST

Quincy Food Service Establishment and Water Consumption List

							Water Consumption (8/1/18 - 8/31/19)			
FPEID	Address	Establishment	Phone	Manager/Owner Name	Licenses	Grease Trap?	Billing Account Number	Cubic Feet per Year	Gallons	Gallons per Day	Wastewater Discharge (g/day)
1	50 ADAMS ST	Planet Fitness	781-335-5802	Dave Rossborough	RF 50	N	18418	128100.00	958188.00	2625.17	2493.91
2	105 ADAMS ST	Interfaith Social Services	617-773-6203	Rick Doane	RF	N	23344	8900.00	66572.00	182.39	173.27
3	500 ADAMS ST	Parkway Automotive	472-9465	Stephen Giglio	T	N	17484	2000.00	14960.00	40.99	38.94
4	550 ADAMS ST	Dunkin Donuts	786-8339	Paul Govastes	FS(75) RF(50) M FD	N	24777	1400.00	10472.00	28.69	27.26
5	550 ADAMS ST	Unchained Pizza	328-3004	John Magraw	RF FS 125	Y	24777	1400.00	10472.00	28.69	27.26
6	550 ADAMS ST	Walgreens Drug	770-3266	Jim Murray	RF(100) M T	N	24777	1400.00	10472.00	28.69	27.26
7	588 ADAMS ST	US Gas	770-1294	Jason Audi	T	N	23088	1800.00	13464.00	36.89	35.04
8	635 ADAMS ST	Dairy Freeze	471-9768	Kevin-Denise Petitti	FS RF M FD 165	Y	14884	7500.00	56100.00	153.70	146.01
9	638 ADAMS ST	Montillio's Bake Shop	472-5500	George Montillio	FS RF M FD 240	Y	15197	5166.67	38646.67	105.88	100.59
10	650 ADAMS ST	Sweet Frog	781-974-7363	Jeremy Stanford	FS M 115	N	15197	5166.67	38646.67	105.88	100.59
11	650 ADAMS ST	7-Eleven	773-0800	Ahmed Makane	B RF(200) M FS FD T	N	15197	5166.67	38646.67	105.88	100.59
12	659-665 ADAMS ST	Atlas Liquors	781-395-4400	Peter Fine	RF(100) T	N	23670	4200.00	31416.00	86.07	81.77
13	670 ADAMS ST	Burger King	479-4975	Elizabeth Deolist	FS RF M FD T	Y	22627	28300.00	211684.00	579.96	550.96
14	678 ADAMS ST	7-Eleven Store #11503	479-8008	Dennis LN	FS RF(100) M FD T	N	23521	26400.00	197472.00	541.02	513.97
15	705 ADAMS ST	Brick and Beam	773-0095	Maria Massey	FS(175) M FD	Y	16378	59400.00	444312.00	1217.29	1156.43
16	4 AGAWAM RD	Merrymount School	984-8762	Sarah Morrison	FS RF M	N	16567	11600.00	86768.00	237.72	225.83
17	4 AGAWAM RD	Merrymount School/ Afterschool Program	773-3299	Sarah Morrison	RF M	N	16567	11600.00	86768.00	237.72	225.83
18	1 ARLINGTON ST	Staybridge Suites/ Holiday Inn Express	N/A	N/A	N/A	Y	30481	34200.00	255816.00	700.87	665.82
19	243 ATLANTIC ST	Matteo's Pizza and Sub	328-0628	Esmeralda Polena	RF FS 125	Y	13851	2950.00	22066.00	60.45	57.43
20	243-247 ATLANTIC ST	Atlantic Market	481-2730	Bobby Patal	RF(100) FD M T	N	13851	2950.00	22066.00	60.45	57.43
21	247 ATLANTIC ST	Coffee Break Cafe	328-8090	Donald Ormond	FS RF M FD	N	28403	4800.00	35904.00	98.37	93.45
22	1 BATTERYMARCH PARK	Elena's Café	781-888-0749	Besim Myshqueri	FS(125) RF M FD C	Y	28589	7800.00	58344.00	159.85	151.85
23	2 BATTERYMARCH PARK	Elena's Café	781-888-0749	Besim Myshqueri	FS RF M 140	Y	23937	153500.00	1148180.00	3145.70	2988.41
24	4 BATTERYMARCH PARK	Elena's Café	781-888-0749	Besim Myshqueri	FS RF M 140	Y	25546	180700.00	1351636.00	3703.11	3517.96
25	6 BAXTER ST	Salvation Army	472-2345	Tim Ross	RF	N	N/A	N/A	N/A	N/A	N/A
26	1 BEALE ST	Papa Gino's	770-3444	Brian Coner	FS(125) RF(100) M	Y	3916A	5700.00	42636.00	116.81	110.97
27	6 BEALE ST	Yaowarat	481-1121	David Chen	R, FS, M	Y	27785	1000.00	7480.00	20.49	19.47
28	13A BEALE ST	The Ice Cream Parlour	471-97S0	Dieter Lambauer	FS RF M FD 165	N	27660	8900.00	66572.00	182.39	173.27
29	15-17 BEALE ST	Great Chow	328-8918	Bill Marr	FS(125) M	Y	27659	136300.00	1019524.00	2793.22	2653.56
30	19 BEALE ST	Lucky Quick Pik	471-9811	Dhrov Patel	T RF 100	N	11971	1800.00	13464.00	36.89	35.04
31	21 BEALE ST	Koi Restaurant	689-0088	Xue Yi Zheng	RF FS M 140	Y	9191	42000.00	314160.00	860.71	817.68
32	31 BEALE ST	Newcomb Farms	472-9641	David Newcomb	FS(125) M	Y	14179	28000.00	209440.00	573.81	545.12
33	42 BEALE ST	CVS Pharmacy #1015	773-8557	Joe Berdoni	RF(200) M T	N	18136	9200.00	68816.00	188.54	179.11
34	58-60 BEALE ST	Wollaston Wine & Spirits	479-4433	George Haivanis	RF(100) T	N	23392	6600.00	49368.00	135.25	128.49
35	163 BEALE ST	Baby Cakes	773-4458	Keri DeLNy	FS M B 190	N	4375	22700.00	169796.00	465.19	441.93
36	205 BEALE ST	Wollaston School/ Afterschool Program	773-3299	Sarah Morrison	FS M	N	7841	15600.00	116688.00	319.69	303.71
37	205 BEALE ST	Wollaston School	984-8791	Sarah Morrison	FS RF M	N	7841	15600.00	116688.00	319.69	303.71
38	263 BEALE ST	Lucky Shamrock	773-1666	Diya Patel	FS RF(100) M FD T	N	640	3500.00	26180.00	71.73	68.14
39	8 BELMONT ST	Montclair School/ Afterschool Program	773-3299	Sarah Morrison	FS M	N	24783	13700.00	102476.00	280.76	266.72
40	8 BELMONT ST	Montclair School	984-8709	Sarah Morrison	FS RF M	N	24783	13700.00	102476.00	280.76	266.72
41	17 BILLINGS RD	Panda Cheers Cut	481-2733	Ying Huang	R, FS,M	Y	7431	29600.00	221408.00	606.60	576.27
42	24 BILLINGS RD	Saigon Corner	770-9333	Yung Sun Fan	FS RF M 140	Y	7199	14700.00	109956.00	301.25	286.19
43	21A-25 BILLINGS RD	East Ocean Rest	472-6868	Joey Jiang	FS(175) RF M	Y	N/A	N/A	N/A	N/A	N/A
44	35 BILLINGS RD	Balducci's House of Pizza	328-9842	Evangelos Kyranis	FS RF M 140	Y	9926	127000.00	949960.00	2602.63	2472.50
45	45 BILLINGS RD	Sophia's Pizza House	479-1020	Vassil Paounov	FS RF M 140	Y	25204	5350.00	40018.00	109.64	104.16
46	47 BILLINGS RD	Long Chuan Garden	328-3288	Richard Wong	FS(125) M	Y	25204	5350.00	40018.00	109.64	104.16
47	48 BILLINGS RD	Red Apple Food Shop	512-8662	Kirshakany Patel	FS RF M T 190	N	14283	2000.00	14960.00	40.99	38.94
48	51 BILLINGS RD	Irish Pub	774-0222	Noel Bowler	FS(125) M T RF	Y	6110	39200.00	293216.00	803.33	763.16
49	60 BILLINGS RD	Atlantic Seafood Trading Corp	290-0558	Jacky Wei Zhang	fs	Y	6999	2500.00	18700.00	51.23	48.67
50	61 BILLINGS RD	Burke's Seafood	479-1540	Richard Burke	FS RF 125	Y	25013	1400.00	10472.00	28.69	27.26
51	64 BILLINGS RD	Buccini's Mister Sub	328-7764	Enis Shehu	FS RF 125	Y	5547	78200.00	584936.00	1602.56	1522.44
52	64 BILLINGS RD	Chai Time	888-5176	Jinny Chen	Fs	N	5547	78200.00	584936.00	1602.56	1522.44
53	65 BILLINGS RD	Billings Store LLC	858-3018	Jinny Chen	Tob	N	12670	800.00	5984.00	16.39	15.57
54	66A BILLINGS RD	Seuy Mook Tenn LLC	847-3958	Zi Ying Li	FS RF M B 240	Y	28512	12100.00	90508.00	247.97	235.57
55	68 BILLINGS RD	Taipei Cuisine	328-4188	Ri Xiong	RF FS M 140	Y	28512	12100.00	90508.00	247.97	235.57
56	74-76 BILLINGS RD	0.B.'s Café	472-2777	Steven Obey	FS RF M 140	Y	2263	37600.00	281248.00	770.54	732.02
57	125 BILLINGS RD	Sam's Variety	328-9135	Ashok Patel	FS RF M T FD 215	N	12376	3600.00	26928.00	73.78	70.09
58	148 BILLINGS RD	Parker School/ Afterschool Program	773-3299	Sarah Morrison	FS M	N	9837	20700.00	154836.00	424.21	403.00
59	148 BILLINGS RD	Parker School	984-8710	Sarah Morrison	FS RF M	N	9837	20700.00	154836.00	424.21	403.00
60	282 BILLINGS RD	Quincy Crisis Center	847-6967	David Wooster	RF	N	9392	600.00	4488.00	12.30	11.68
61	12 BLANCHARD RD	Gennaro's Eatery	773-1500	Gerard Mortechio	FS(125) RF M C	Y	20993	61800.00	462264.00	1266.48	1203.15
62	63 BOWER RD	Adam's Height Men's Club	773-4750	Itevin Gilmartin	FS M	N	22814	9900.00	74052.00	202.88	192.74

							Water Consumption (8/1/18 - 8/31/19)				
FPEID	Address	Establishment	Phone	Manager/Owner Name	Licenses	Grease Trap?	Billing Account Number	Cubic Feet per Year	Gallons	Gallons per Day	Wastewater Discharge (g/day)
63	99 BRACKETT ST	Brookdale	472-4457	Tom Travers	FS M	Y	24147	2400.00	17952.00	49.18	46.72
64	25 BRD ST	Fratelli's Pastry Shop	328-7855	Giovanni Milone	FS M RF B 240	N	28045	2100.00	15708.00	43.04	40.88
65	38 BRD ST	Father Bill's Place	773-3146	Paul Anderson	FS M	N	24315	258700.00	1935076.00	5301.58	5036.50
66	1 BROOK ST	Min Du Seafood Restaurant	328-2006	Yu Hua Chen	FS(125) M	Y	1535	5000.00	37400.00	102.47	97.34
67	5 BROOK ST	Wollaston Convenience Store	328-8020	Raymond Ng	RF M T 115	N	27781	900.00	6732.00	18.44	17.52
68	10 BROOK ST	State St. Sushi	328-1631	Ling Chai Zheng	FS RF M 140	N	27938	28100.00	210188.00	575.86	547.06
69	10-16 BROOK ST #18	Big Boss Pantry	689-8866	Gary Mok	FS RF M 140	N	27943	10700.00	80036.00	219.28	208.31
70	11 BROOK ST	Seuy Mack Tenn II Inc	376-8889	Sammy Mui	FS RF M B 240	Y	23316	2600.00	19448.00	53.28	50.62
71	16 BROOK ST	Fairy Café	773-8880	Washan Ching	FS RF M 90	N	27942	18800.00	140624.00	385.27	366.01
72	20 BROOK ST	Andre's	770-4740	Grace Eng	RF M T 115	N	25087	600.00	4488.00	12.30	11.68
73	22 BROOK ST	Mei Mei Bakery	781-675-2917	Wu Jian Rang	B,FS, F,M	N	476	8500.00	63580.00	174.19	165.48
74	16 BROOK AVE	JNC Varieties Store	617-405-4842	Nguyen Vu	M,RF,Tob	N	15122	300.00	2244.00	6.15	5.84
75	100 BROOKS AVE	Amelia Della Chiesa Early Childhood Center	984-8777	Sarah Morrison	FS RF M	N	24869	16300.00	121924.00	334.04	317.34
76	400 BURGIN PKWY	Quincy Bite- Quincy Adams T	781-535-8504	Lalgopal Subedi	FS RF FD M T 165	N	N/A	N/A	N/A	N/A	N/A
77	50 CALVIN RD	Broadmeadows Middle School	773-2577	Sara Dufour	FS RF M	N	21740	32200.00	240856.00	659.88	626.89
78	15 CENTRE ST	Centre Street Gas & Repair	672-9517	Chonhy Moussallem	T	N	17952	N/A	N/A	N/A	N/A
79	260 CENTRE ST	Joe's Market Place	471-2166	Rocky Patel	FS RF M T 190	N	23194	3000.00	22440.00	61.48	58.41
80	366 CENTRE ST	Dunkin Donuts	376-4767	Victor Carvalho	FS RF FD M 115	N	1968	54300.00	406164.00	1112.78	1057.14
81	465 CENTRE ST	Dunkin Donuts	328-6135	Kevin Donovan	FS RF FD M 165	N	27074	25050.00	187374.00	513.35	487.69
82	465 CENTRE ST	Home Depot	479-0707	Chris Hoban	RF 50	N	27074	25050.00	187374.00	513.35	487.69
83	17 CHESTNUT ST	Café Gelato	781-698-9775	Denise Santini	FS FD M	N	12096	2900.00	21692.00	59.43	56.46
84	24 CHESTNUT ST	The Fat Cat	471-4363	Neil Kiley	FS(125) FD M	Y	9	85800.00	641784.00	1758.31	1670.40
85	52 CODDINGTON ST	President's Café	376-3288	Mark Kelly	FS RF M B C	Y	28574	84900.00	635052.00	1739.87	1652.88
86	79 CODDINGTON ST	SS YMCA/ Daycare	481-4477	Sean Morrissey	FS M	N	28707	800850.00	5990358.00	16411.94	15591.34
87	79 CODDINGTON ST	Y Cafe	479-8500	Jovane Cividini	FS RF FD M 165	Y	28707	800850.00	5990358.00	16411.94	15591.34
88	100 CODDINGTON ST	Quincy High School Cafeteria	376-3372	Sara DuFour	FS RF M	Y	28574	84900.00	635052.00	1739.87	1652.88
89	500 COMMANDER SHEA BLVD	Eurest	689-7487	Aaron Weiner	FS(175) RF(100) M C	N	23139	N/A	N/A	N/A	N/A
90	1COPELAND ST	Southwest Communty Food Center/Food Pantry	471-0796	Melinda Alexander	RF	N	2840	1800.00	13464.00	36.89	35.04
91	5 COPELAND ST	Three Guys Smoke Shop	816-4246	Paritosh Patel	T RF	N	2840	1800.00	13464.00	36.89	35.04
92	15 COPELAND ST	Adams Pizza & Sub	376-0003	Elis Lusha	FS RF M 140	N	23164	101700.00	760716.00	2084.15	1979.95
93	25 COPELAND ST	Soup House	669-8938	Guo Li Zhou	FS RF	N	27644	5500.00	41140.00	112.71	107.08
94	29 COPELAND ST	Simply Good Catering	479-9470	Richard Garriger	C	Y	9586	2900.00	21692.00	59.43	56.46
95	75 COPELAND ST	7-Eleven Store #11496	472-8480	Vipol Patel	FS RF(100) FD M T	N	22880	8900.00	66572.00	182.39	173.27
96	139 COPELAND ST	The Sly Fox	328-5777	Mary McKenna	FS M	Y	17770	13300.00	99484.00	272.56	258.93
97	150 COPELAND ST	Copeland Street Sub & Pizza	770-3350	Despina Varsamis	FS RF M 140	N	16463	7800.00	58344.00	159.85	151.85
98	151 COPELAND ST	Donut King	786-9881	Louis Melchione	FS RF M 140	Y	22427	11200.00	83776.00	229.52	218.05
99	273 COPELAND ST	Copeland Package Store	471-5418	Dennis Carson	RF M T 115	N	22131	3700.00	27676.00	75.82	72.03
100	296 COPELAND ST	Callahan's Tap	773-0808	Anthony Donelly	FS RF M T 190	N	2393	8400.00	62832.00	172.14	163.54
101	15 COTTAGE AVE	The Four's Restaurant and Sports Bar	471-4447	Edward Morris	FS RF M	Y	24180	123900.00	926772.00	2539.10	2412.15
102	16 COTTAGE AVE	Sixteen C	479-2726	Jerry Mulvey	FS(125) RF M	Y	19165	35700.00	267036.00	731.61	695.03
103	20-22 COTTAGE AVE	Shaking Crab	328-3808	Ming Jiang	FS M	Y	19164	76300.00	570724.00	1563.63	1485.45
104	24 COTTAGE AVE	Tully's Cafe	479-9874	Mark Tully	FS M 90	N	21044	12800.00	95744.00	262.31	249.20
105	200 CROWN COLONY DR	BJ's Wholesale Club	857-403-2002	Janet Ford	FS RF(200) M B T	N	27838	143200.00	1071136.00	2934.62	2787.89
106	300 CROWN COLONY DR	Sebastians	328-3901	J Brian	FS RF M 140	Y	24248	104800.00	783904.00	2147.68	2040.30
107	400 CROWN COLONY DR	Crown Café	773-1480	John Mealey	FS RF M	Y	24087	51900.00	388212.00	1063.59	1010.41
108	500 CROWN COLONY DR	Crown Colony Pharmacy	N/A	N/A	N/A	N	24087	51900.00	388212.00	1063.59	1010.41
109	1100 CROWN COLONY DR	Arbella	328-6931	J Brian	FS RF M 140	N	25444	138400.00	1035232.00	2836.25	2694.44
110	1200 CROWN COLONY DR	State Street Bank/ Sodexo	537-3257	N/A	FS(175) RF FD M C	Y	24373	596000.00	4458080.00	12213.92	11603.22
111	1600 CROWN COLONY DR	Harvard Pilgrim Health	509-3226	N/A	FS(175) RF FD M C	Y	25623	365200.00	2731696.00	7484.10	7109.89
112	1900 CROWN COLONY DR	Arbella	328-2246	J Brian	FS(175) RF M C	Y	25444	138400.00	1035232.00	2836.25	2694.44
113	2000 CROWN COLONY DR	BFDS/ Treat America Food	483-7463	Michael Ortyl	FS(175) RF(100) M C	Y	25455	301700.00	2256716.00	6182.78	5873.64
114	23 DES MOINES RD	Cronin's Publick House	786-9804	Margaret Garvey	FS(125) RF M	Y	10486	32800.00	245344.00	672.18	638.57
115	10 DYSART ST	South Shore Recovery Home	773-7033	Robert Monahan	FS M	N	5923	46700.00	349316.00	957.03	909.18
116	23 EAST ELM AVE	Eastern Nazarene College Bookstore	745-3591	Meagan Bourne	RF FD M 90	N	N/A	N/A	N/A	N/A	N/A
117	23 EAST ELM AVE	Eastern Nazarene College Snack Bar	745-3575	Rick Harmon	FS RF M 140	N	N/A	N/A	N/A	N/A	N/A
118	23 EAST ELM AVE	Eastern Nazarene Cafeteria	745-3575	Rick Harmon	FS(175) M	Y	N/A	N/A	N/A	N/A	N/A
119	64 EAST HOWARD ST	Everyday Café	479-9800	Kerrie Doherty	FS RF M 140	N	24758	12500.00	93500.00	256.16	243.36
120	388 EAST SQUANTUM ST	Dunkin Donuts	296-3737	Paul Govastes	FS RF FD M 165	N	10360	33400.00	249832.00	684.47	650.25
121	440 EAST SQUANTUM ST	Coffee Cafe- Senior Center	N/A	Tom Clasby	FS RF M	N	23747	6800.00	50864.00	139.35	132.39
122	7S1 EAST SQUANTUM ST	Dunkin Donuts	296-3737	Paul Govastes	FS RF FD M 165	N	14296	11750.00	87890.00	240.79	228.75
123	751 EAST SQUANTUM ST	Tedeschi Food Shops	328-7289	John Whaley	RF(100) FD M T	N	14296	11750.00	87890.00	240.79	228.75
124	1 ENTERPRISE DR	Blue Cross/ Blue Shield	246-6336	N/A	FS(175) RF M C	Y	23694	631250.00	4721750.00	12936.30	12289.49
125	61 ENTERPRISE DR	Sebastian's Heritage I	N/A	N/A	RF FS M 140	Y	23694	631250.00	4721750.00	12936.30	12289.49
126	101 FALLS BLVD	Roche Bros. Supermarket	471-0500	N/A	FS(125) RF(200) M B T C	Y	25014	105800.00	791384.00	2168.18	2059.77

								Water Consumption (8/1/18 - 8/31/19)			
FPEID	Address	Establishment	Phone	Manager/Owner Name	Licenses	Grease Trap?	Billing Account Number	Cubic Feet per Year	Gallons	Gallons per Day	Wastewater Discharge (g/day)
127	101 FALLS BLVD	National Wine & Liquors	479-3131	Arpan Patel	RF T 100	N	25014	105800.00	791384.00	2168.18	2059.77
128	301 FALLS BLVD	Wal-Mart	745-4390	Michael Ankst	RF(200) M T	N	25189	30350.00	227018.00	621.97	590.87
129	301 FALLS BLVD	Subway	479-0028	Hardik Patel	FS(125) RF FD M	N	25189	30350.00	227018.00	621.97	590.87
130	2003 FALLS BLVD	Atrium at Faxon Woods	471-5595	Bayron Castillo	FS(175) M	Y	25864	193900.00	1450372.00	3973.62	3774.94
131	225 FENNO ST	Beachwood Knoll/ Afterschool Program	773-3299	Sarah Morrison	FS M	N	20552	11650.00	87142.00	238.75	226.81
132	225 FENNO ST	Beachwood Knott Elementary School	984-8634	N/A	FS RF M	N	20552	11650.00	87142.00	238.75	226.81
133	8 FRANKLIN ST	Alfredo Italian Foods	770-6360	Peter Aiello	FS RF(100) FD M	N	15186	6500.00	48620.00	133.21	126.55
134	9 FRANKLIN ST	Prestige Gas Station	508-580-9700	Meaghan Nadeau	T	N	9554	3600.00	26928.00	73.78	70.09
135	35 FRANKLIN ST	DeLNy's Pub	471-9568	Mauria Foley	FS M T 140	N	11177	27700.00	207196.00	567.66	539.28
136	40 FRANKLIN ST	Regina Russell's Tea Room	472-9606	John Schmooch	FS M 90	N	154	8600.00	64328.00	176.24	167.43
137	51 FRANKLIN ST	Casa Do Bife	934-2689	Antonio	FS RF M 140	N	6098	9600.00	71808.00	196.73	186.90
138	52 FRANKLIN ST	Sunshine Fruit	328-5940	Bob Patel	FS RF(100) M T	N	239	4200.00	31416.00	86.07	81.77
139	59 FRANKLIN ST	J Garden (Rising Sun Enterprises)	770-9898	Chi Wah Ho	FS 75	Y	19533	950.00	7106.00	19.47	18.50
140	60 FRANKLIN ST	BP Gas Station	773-3216	Elias Ibrahim	T	N	713	1100.00	8228.00	22.54	21.42
141	61 FRANKLIN ST	Mama Bear's Pizzeria	773-1100	N/A	FS RF 125	Y	19533	950.00	7106.00	19.47	18.50
142	75 FRANKLIN ST	Fusion Kitchen	472-1115	Marios Michalakis	FS M	Y	300	80600.00	602888.00	1651.75	1569.16
143	76 FRANKLIN ST	7-Eleven Store #25059	472-3266	Dhananjay Patel	FS RF(100) FD M T	N	23718	5900.00	44132.00	120.91	114.86
144	95 FRANKLIN ST	Dunkin Donuts	472-9240	Kevin Donovan	FS RF FD M 165	N	23080	62400.00	466752.00	1278.77	1214.83
145	103 FRANKLIN ST	Quincy Hungry Tummy	770-3900	Sidonia Maninos	RF FS	Y	2821	7033.33	52609.33	144.14	136.93
146	106 FRANKLIN ST	Franklin Smoke Shop	N/A	N/A	N/A	N	2821	7033.33	52609.33	144.14	136.93
147	107 FRANKLIN ST	Quincy Creamery	471-2663	Lynne Galligan	FS RF M 140	N	2821	7033.33	52609.33	144.14	136.93
148	144 FRANKLIN ST	McKay's	773-0099	Richard McKay	FS(125) RF M	Y	1000	46100.00	344828.00	944.73	897.50
149	211 FRANKLIN ST	John Adams Continuing Care Center	479-0837	David Botte	FS(125) M	Y	8192	174800.00	1307504.00	3582.20	3403.09
150	701 FURNACE BROOK PKWY	Bernazzani Afterschool Program	773-7299	Sarah Morrison	FS M	N	99999	11300.00	84524.00	231.57	219.99
151	701 FURNACE BROOK PKWY	Charles A. Bernazzani School	984-8713	Sara Morrison	FS RF M	N	99999	11300.00	84524.00	231.57	219.99
152	1269 FURNACE BROOK PKWY	Parkway Mobil	773-9211	Labebe Awde	T	N	23064	2200.00	16456.00	45.08	42.83
153	24 GARFIELD ST	Granite House/ Bay State Community Service	N/A	N/A	FS M	N	744	9300.00	69564.00	190.59	181.06
154	27 GLENDALE RD	Neighborhood Club of Quincy	773-9300	Martin McGovern	FS(175) M	Y	9889	75500.00	564740.00	1547.23	1469.87
155	51-53 GRANITE ST	Malachy's	786-1449	Steve Higgins	FS(125) RF M T	Y	15144	7300.00	54604.00	149.60	142.12
156	57 GRANITE ST	Little Duck Thai Restaurant	479-3157	Nuttachai Wiwatyuhanh	FS RF M 140	Y	24672	19300.00	144364.00	395.52	375.74
157	62 GRANITE ST	Burger King	471-1248	N/A	FS(125) RF FD M	Y	23514	41100.00	307428.00	842.27	800.16
158	65 GRANITE ST	Nick's Pizza	471-6181	Theodoros Sourmoidi	FS RF M 140	Y	21269	6300.00	47124.00	129.11	122.65
159	100 GRANITE ST	Dunkin Donuts	328-6045	Victor Carvalho	FS RF FD M 165	N	24030	13300.00	99484.00	272.56	258.93
160	100 GRANITE ST	Papa Gino's	786-9088	Bryan Masse	FS(125) RF(100) M	Y	24030	13300.00	99484.00	272.56	258.93
161	100 GRANITE ST	Dollar Tree Store #3765	471-1119	Gregg Melnick	RF M	N	24030	13300.00	99484.00	272.56	258.93
162	126 GRANITE ST	Boston Market #0594	774-1155	Louis Grossman	FS(125) RF M	Y	24980	31066.67	232378.67	636.65	604.82
163	130 GRANITE ST	Star Market	479-3492	Donna Barker	FS RF(200) M B T	Y	22680	62050.00	464134.00	1271.60	1208.02
164	132 GRANITE ST	Rite-Aid	479-2330	Nicholas Pfieler	RF(200) M T	N	N/A	N/A	N/A	N/A	N/A
165	148 GRANITE ST	Five Star Pizza	471-555	Zihni Zerk	FS RF M 140	Y	23036	15633.33	116937.33	320.38	304.36
166	148 GRANITE ST	China Chopsticks	471-9277	Vivian Trihn	FS RF 125	Y	23036	15633.33	116937.33	320.38	304.36
167	148 GRANITE ST	Mignosa's Fruit Basket	471-9715	William Mignosa	FS RF M C 290	Y	23036	15633.33	116937.33	320.38	304.36
168	300 GRANITE ST	Lincoln Hancock School/ Afterschool Program	773-3299	Sarah Morrison	RF M	N	455	7400.00	55352.00	151.65	144.07
169	300 GRANITE ST	Lincoln Hancock School	984-8768	Sara Morrison	FS RF M	N	455	7400.00	55352.00	151.65	144.07
170	380 GRANITE ST	Discount Liquors	472-9110	David Devoy	RF T 100	N	1466	1600.00	11968.00	32.79	31.15
171	378 GRANITE ST	Granite Street Café	328-7774	Arben Beberian	FS(125) RF M	Y	27227	21400.00	160072.00	438.55	416.63
172	444 GRANITE ST	Sterling Middle School	984-8961	Sara Morrison	FS RF M	N	15147	26000.00	194480.00	532.82	506.18
173	HANCOCK PARKING AREA	Quincy Farmer's Market	339-225-2607	Janet Little	RF	N	N/A	N/A	N/A	N/A	N/A
174	29 HANCOCK ST	Best Western Adams Inn	328-1580	Thomas Galvin	FS(175) RF FD M T	Y	27519	200.00	1496.00	4.10	3.89
175	61 HANCOCK ST	Domino's Pizza	472-9191	Michael Hatfield	FS RF 125	Y	22438	9600.00	71808.00	196.73	186.90
176	100 HANCOCK ST	Harbor South Tower Café/ppm Food Srvc	770-5609	Antonia Cabral	FS(125) RF M	Y	23705	301800.00	2257464.00	6184.83	5875.59
177	111 HANCOCK ST	Cathay Pacific	328-1115	David Chu	FS(125) FD M	Y	23629	229600.00	1717408.00	4705.23	4469.97
178	125 HANCOCK ST	Dunkin Donuts	328-3407	John Cadete	RF(100) FD FS M	N	13877	54700.00	409156.00	1120.98	1064.93
179	200 HANCOCK ST	Applebee's Neighborhood Grill and Bar	328-9443	Jim Costa	FS(175) M	Y	25931	116200.00	869176.00	2381.30	2262.24
180	200 HANCOCK ST	Panera Bread	328-5473	Carla Gorman	FS(125) RF(100) M B C	Y	25931	116200.00	869176.00	2381.30	2262.24
181	238 HANCOCK ST	Hess Gas Station	328-5742	Hess Corporation	T	N	24197	2700.00	20196.00	55.33	52.56
182	270 HANCOCK ST	D'Angelo/ Papa Gino	689-0522	Mona Pewuh	FS(125) RF M	Y	19800	28500.00	213180.00	584.05	554.85
183	275 HANCOCK ST	McDonald's Restaurant	479-6795	Jing Li	FS(125) RF(100) FD M	Y	23060	111600.00	834768.00	2287.04	2172.68
184	316 HANCOCK ST	North Quincy High School Packing Room	984-8870	Sara Morrison	FS RF M	N	99948	47200.00	353056.00	967.28	918.91
185	316 HANCOCK ST	North Quincy High School	984-8768	Sara Morrison	FS RF M	Y	99948	47200.00	353056.00	967.28	918.91
186	324 HANCOCK ST	Walgreens Drug	471-0517	Anthony Roscia	RF(200) M T	N	27851	5900.00	44132.00	120.91	114.86
187	325 HANCOCK ST	Hancock Street Sunoco	472-9153	Jenny Merhy	T	N	N/A	N/A	N/A	N/A	N/A
188	363 HANCOCK ST	7-Eleven Food Store #32471	773-2832	Siracti Mulatu	FS RF(100) FD M T	N	1520	10300.00	77044.00	211.08	200.53
189	370 HANCOCK ST	Quincy Catholic Academy	328-3830	Janice Hines	FS M	N	1438A	75800.00	566984.00	1553.38	1475.71
190	385 HANCOCK ST	Regal Beagle	238-3530	Nacha Patel	RF T 100	N	5820	23300.00	174284.00	477.49	453.62

							Water Consumption (8/1/18 - 8/31/19)				
FPEID	Address	Establishment	Phone	Manager/Owner Name	Licenses	Grease Trap?	Billing Account Number	Cubic Feet per Year	Gallons	Gallons per Day	Wastewater Discharge (g/day)
191	389 HANCOCK ST	Vivi Bubble Tea Café	818-0068	Hung Chen	FS RF FD M 165	N	5820	23300.00	174284.00	477.49	453.62
192	397 HANCOCK ST	Shabu	689-0288	Tony Liang	FS RF 125	Y	13669	11050.00	82654.00	226.45	215.13
193	405 HANCOCK ST	B Café	657-0008	Tony Liang	FS RF M 140	Y	13669	11050.00	82654.00	226.45	215.13
194	406 HANCOCK ST	Yocha	328-8883	Tony Liang	FS FD M 115	Y	5797	6350.00	47498.00	130.13	123.62
195	409 HANCOCK ST	Pho Noa Restaurant	328-9600	Thanh D Le	FS(125) M	Y	13669	11050.00	82654.00	226.45	215.13
196	412 HANCOCK ST	Contempo Eatery	479-3880	Sau W. Chan	FS RF M B 240	Y	5797	6350.00	47498.00	130.13	123.62
197	415 HANCOCK ST	East Chinatown Restaurant	472-9928	Cecilia Yu	FS M 90	Y	13669	11050.00	82654.00	226.45	215.13
198	416 HANCOCK ST	South Shore Check Cashing	N/A	N/A	T	N	6238	27900.00	208692.00	571.76	543.17
199	419 HANCOCK ST	Lee Han Sandwich	770-2253	Mohammed Alzubaidi	B C M 265	Y	16870	70900.00	530332.00	1452.96	1380.32
200	421A HANCOCK ST	The Butcher Shop	481-1223	Ahmed Karageh	FS RF M 140	N	16870	70900.00	530332.00	1452.96	1380.32
201	425 HANCOCK ST	Rebmi Inc. dba Assembly	302-4987	Paul Adamson	FS(125) M	Y	12248	82000.00	613360.00	1680.44	1596.42
202	453 HANCOCK ST	Wheelhouse Diner	328-3666	LeeAnn McDonough	FS M 90	Y	17173	25200.00	188496.00	516.43	490.61
203	475 HANCOCK ST	Rite-Aid Pharmacy	328-6002	Steve Lacey	RF(100) M T	N	22823	86150.00	644402.00	1765.48	1677.21
204	475 HANCOCK ST	Big Y Super Market #102	769-0088	Bob Masciulli	FS RF(200) FD M T B	Y	22823	86150.00	644402.00	1765.48	1677.21
205	488 HANCOCK ST	Bamboo Garden Early Learning	834-8441	N/A	RF 50	Y	13382	6650.00	49742.00	136.28	129.47
206	498 HANCOCK ST	S&A Convenient Store	N/A	N/A	RF M T 115	N	13382	6650.00	49742.00	136.28	129.47
207	540 HANCOCK ST	Fenno House- Assisted Living	773-5483	Lucille Becker	FS M 90	Y	23263	350600.00	2622488.00	7184.90	6825.65
208	571 HANCOCK ST	A.L. Prime Energy	801-2045	N/A	T	N	17682	500.00	3740.00	10.25	9.73
209	596 HANCOCK ST	A.L. Prime Energy	471-4123	N/A	T	N	17682	500.00	3740.00	10.25	9.73
210	615 HANCOCK ST	Wollaston Supreme Liquor Store	773-1331	Paul Sifrino	RF(100) T	N	15232	14600.00	109208.00	299.20	284.24
211	622 HANCOCK ST	Five J's Convenience Store	N/A	N/A	N/A	N	3020	700.00	5236.00	14.35	13.63
212	649 HANCOCK ST	Mo Mo Café	479-0988	Rita Wong	FS B M	Y	27402	5500.00	41140.00	112.71	107.08
213	662 HANCOCK ST	Tony's House of Pizza	472-8868	Wagieh Hanna	FS RF M 140	Y	2977	28500.00	213180.00	584.05	554.85
214	666 HANCOCK ST	Chili Square	N/A	N/A	FS RF M	Y	2977	28500.00	213180.00	584.05	554.85
215	668 HANCOCK ST	Hancock Tavern	472-5554	N/A	FS(125) FD M	Y	2977	28500.00	213180.00	584.05	554.85
216	669 HANCOCK ST	Yummy Café	773-0088	King Cheu	FS RF FD M 165	Y	27788	8700.00	65076.00	178.29	169.38
217	671 HANCOCK ST	Pad Thai Restaurant	302-4223	Natapong Viutanayucun	FS RF M 140	Y	27787	N/A	N/A	N/A	N/A
218	673 HANCOCK ST	Hakata Ramen	773-8828	Judy Chen	FS 75	Y	11467	400.00	2992.00	8.20	7.79
219	681 HANCOCK ST	The China Restaurant/ Jet Eight Group LLC	786-8890	Judy Chen	FS(125) M	Y	27792	100400.00	750992.00	2057.51	1954.64
220	687 HANCOCK ST	Dunkin Donuts	773-8742	John Cadete	FS RF(100) FD M	N	23764	47200.00	353056.00	967.28	918.91
221	690 HANCOCK ST	Falafel King	773-2283	Hassan Alzubaidy	FS RF M 140	Y	14213	23100.00	172788.00	473.39	449.72
222	694A HANCOCK ST	Shop Accessories	857-928-6667	Tram Vu	RF T 100	N	14213	23100.00	172788.00	473.39	449.72
223	698 HANCOCK ST	Fuji Restaurant	773-0888	Xing Lin	FS RF M 140	Y	14213	23100.00	172788.00	473.39	449.72
224	700 HANCOCK ST	A.L. Prime Energy	471-0675	N/A	T	N	12951	1000.00	7480.00	20.49	19.47
225	707 HANCOCK ST	KFC/ Taco Bell	471-4742	David Evans	FS RF M 140	Y	9904	47500.00	355300.00	973.42	924.75
226	708 HANCOCK ST	Winsor Dim Sum House	481-5871	Michael Ly	FS(125) M	Y	28770	235100.00	1758548.00	4817.94	4577.04
227	721 HANCOCK ST	7-Eleven Store	548-8268	Bon Chibueze	FS RF(100) FD M T	N	17278	9300.00	69564.00	190.59	181.06
228	731 HANCOCK ST	New York Market	472-9000	Mimy Wang	FS RF(200) M T	N	18661	84200.00	629816.00	1725.52	1639.25
229	764 HANCOCK ST	Confectionately Yours	328-6333	Daniel Cummings	FS M B 180	N	21072	11000.00	82280.00	225.42	214.15
230	1012 HANCOCK ST	Central Middle School	984-8915	Sara Morrison	FS RF M	N	1880	N/A	N/A	N/A	N/A
231	1049 HANCOCK ST	The Fowler House Café	773-9000	Richard Rizzoti	FS(175) FD M	Y	24482	62900.00	470492.00	1289.02	1224.57
232	1054 HANCOCK ST	The Early American	328-8225	Jeff Barcelo	FS RF M 140	Y	3569	6033.33	45129.33	123.64	117.46
233	1054 HANCOCK ST	Chocolates U	N/A	Becky Kuehn	C	N	3569	6033.33	45129.33	123.64	117.46
234	1058-1060 HANCOCK ST	The Corner Food Mart	479-4436	Kim Kelly Vo	RF M T 115	N	3569	6033.33	45129.33	123.64	117.46
235	1089 HANCOCK ST	Rozafa	657-5111	Antoneta Vita	FS M 90	Y	16823	21600.00	161568.00	442.65	420.52
236	1183 HANCOCK ST	New Store on the Block	328-2021	Mary Patel	FS RF FD M T 215	N	23070	N/A	N/A	N/A	N/A
237	1185 HANCOCK ST	Quincy T Food Store	328-3636	Bobby Patel	FS RF M 140	N	9985	7600.00	56848.00	155.75	147.96
238	1205 HANCOCK ST	Starbucks Coffee Company	770-4955	Jandi Coma	FS RF FD M 165	N	21271	732300.00	5477604.00	15007.13	14256.78
239	1237 HANCOCK ST	Sher-A-Punjab	786-1010	Mandeep Sinan CFS(125) M	FS(125) M	Y	16782	20660.00	154536.80	423.39	402.22
240	1245 HANCOCK ST	New Store on the Block	781-630-0887	Dinesh Patel	Fs, FD,M,RF,Tob	N	16782	20660.00	154536.80	423.39	402.22
241	1247 HANCOCK ST	Jenny's House	302-4375	N/A	FS RF M 140	N	16782	20660.00	154536.80	423.39	402.22
242	1250 HANCOCK ST	Crush Pizza	603-235-9318	Tony Naser	Fs, RF, M	Y	24512	16616.67	124292.67	340.53	323.50
243	1250 HANCOCK ST	Goodies Mini Mart	801-2090	Dimesh Patel	FS RF FD M T 215	N	24512	16616.67	124292.67	340.53	323.50
244	1250 HANCOCK ST	The Townshend	481-9694	Devin Adams	FS M 90	Y	24512	16616.67	124292.67	340.53	323.50
245	1250 HANCOCK ST	Dunkin Donuts	376-2537	Victor Carvalho	FS RF FD M 165	N	24512	16616.67	124292.67	340.53	323.50
246	1250 HANCOCK ST	Barnes & Noble College Bookstore	328-1602	Tyler	RF, M	N	24512	16616.67	124292.67	340.53	323.50
247	1250 HANCOCK ST	Five Guys	481-8625	Pamela Souza	M,FS,FD	Y	24512	16616.67	124292.67	340.53	323.50
248	1253 HANCOCK ST	Gunther Tooties	471-1866	Lesley Mai	FS RF M 140	Y	16782	20660.00	154536.80	423.39	402.22
249	1259B HANCOCK ST	Tbaar	481-6495	N/A	FS M 90	Y	16782	20660.00	154536.80	423.39	402.22
250	1306 HANCOCK ST	United First Parish Church	773-1290	Jack Phillips	FS RF	N	22298	5600.00	41888.00	114.76	109.02
251	1348 HANCOCK ST	Purefections	376-3245	Vipul Paiel	FS RF	N	3768	8250.00	61710.00	169.07	160.62
252	1354 HANCOCK ST	Craig's Café	770-9271	Tom Anacone	FS RF M 140	Y	22638	64300.00	480964.00	1317.71	1251.82
253	1360 HANCOCK ST	Edible Arrangements	657-0800	Irinia Sagan	FS	N	3768	8250.00	61710.00	169.07	160.62
254	1385 HANCOCK ST	Stop and Shop Cafeteria	472-8671	Chris Strauge	FS(175) RF(100) M C	Y	23657	503400.00	3765432.00	10316.25	9800.44

							Water Consumption (8/1/18 - 8/31/19)				
FPEID	Address	Establishment	Phone	Manager/Owner Name	Licenses	Grease Trap?	Billing Account Number	Cubic Feet per Year	Gallons	Gallons per Day	Wastewater Discharge (g/day)
255	1388 HANCOCK ST	Acapulcos Restaurant	479-1900	Edgar Moreno	FS FD M	Y	25335	39800.00	297704.00	815.63	774.85
256	1420 HANCOCK ST	Fuji at WC	770-1546	Tony Liang	Fs, FD, M	Y	N/A	N/A	N/A	N/A	N/A
257	1429 HANCOCK ST	Korean Grill	472-1006	Suk Grindle	FS RF M	Y	0158A	3750.00	28050.00	76.85	73.01
258	1431 HANCOCK ST	J's News	786-1980	Thuan Tran	RF T 100	N	0158A	3750.00	28050.00	76.85	73.01
259	1437 HANCOCK ST	Angelina's Pizza	328-7827	Genevive Drwila	FS RF M	Y	0158A	3750.00	28050.00	76.85	73.01
260	1441 HANCOCK ST	OH My Tea	417-9706	Xiawe Liu	Fs, Rf, M	N	0158A	3750.00	28050.00	76.85	73.01
261	1445 HANCOCK ST	Family Dollar	471-2842	Ling Chai Zheng	RF(100) M T	N	7797	27000.00	201960.00	553.32	525.65
262	1459-1461 HANCOCK ST	Donut N Donut	479-2852	Petros Muratoglu	FS(125) RF M T	N	15958	23000.00	172040.00	471.34	447.78
263	1462 HANCOCK ST	Pho Pasteur	770-3300	sau Cai	FS, R, M	Y	21041	14750.00	110330.00	302.27	287.16
264	1464 HANCOCK ST	Idle Hour	376-0030	Bernard Conaughton	FS(175) M T	Y	21041	14750.00	110330.00	302.27	287.16
265	1468 HANCOCK ST	Alba Bar & Grill	376-2522	Leo Keka	FS(175) M	Y	9202	9300.00	69564.00	190.59	181.06
266	1495 HANCOCK ST	Fat Cat	328-0076	John McGrail	FS(175) M	Y	2693	16800.00	125664.00	344.28	327.07
267	1515 HANCOCK ST	Ocean Coffee	347-705-4208	Christy Chan	FS M 90 ,RF	N	24539	5500.00	41140.00	112.71	107.08
268	1546 HANCOCK ST	Rewild	770-1546	Tony Liang	FS(175) M	Y	11916	7700.00	57596.00	157.80	149.91
269	1550 HANCOCK ST	S6	774-1550	Ed Cochrane	FS M T 140	Y	27473	27900.00	208692.00	571.76	543.17
270	1554 HANCOCK ST	Len Senn	773-7280	Helen Lau	FS(125) RF M	Y	28123	18700.00	139876.00	383.22	364.06
271	1570 HANCOCK ST	Napoli Café	471-9090	Barbaros Tonuc	FS RF M 140	Y	452	2900.00	21692.00	59.43	56.46
272	1574 HANCOCK ST	Paddy Barry's	770-3620	Gerry Hanley	FS M T 140	N	25858	6050.00	45254.00	123.98	117.78
273	1576 HANCOCK ST	V & K Smoke Shop	481-1365	Krzysztof Sadloushi	T	N	25858	6050.00	45254.00	123.98	117.78
274	1610 HANCOCK ST	Brother's Roast Beef & Pizza LLC	774-1110	Melsi Xhengo	FS RF M 140	Y	24059	12175.00	91069.00	249.50	237.03
275	1630 HANCOCK ST	Good Health Inc.	773-4925	Ralph Maturo	RF(200) M	N	165	14800.00	110704.00	303.30	288.13
276	1635 HANCOCK ST	Monica's Point	328-8611	Monica Cristina	R, Fs, M	Y	24059	12175.00	91069.00	249.50	237.03
277	1659 HANCOCK ST	Peking Kitchen	328-8862	Wan Zhi Lin	FS RF 125	Y	24059	12175.00	91069.00	249.50	237.03
278	1675 HANCOCK ST	Angelo's Pizza	302-3200	Brian Leonard	FS, M	Y	24059	12175.00	91069.00	249.50	237.03
279	10-40 HAYWARD ST	C Mart	781-901-5408	Quieng Lin	RF, M	Y	11288	600.00	4488.00	12.30	11.68
280	2 HERITAGE DR	Sebastians	472-5000	Shanley Swain	FS(125) RF FD M C	Y	23634	167200.00	1250656.00	3426.45	3255.13
281	1776 HERITAGE DR	State Street Bank- Starbucks (Sodexo)	985-8317	Patrick Lyons	FS RF M 140	N	3150A	212300.00	1588004.00	4350.70	4133.16
282	1776 HERITAGE DR	State Street Bank Cafeteria (Sodexo)	985-8317	Patrick Lyons	FS(175) RF FD M C	Y	3150A	212300.00	1588004.00	4350.70	4133.16
283	5 HOLLIS AVE	Knights of Colombus	328-9822	Frank Sayers	FS(175) M	Y	14935	11400.00	85272.00	233.62	221.94
284	86 HOLLIS AVE	Atlantic Middle School	984-8741	N/A	FS RF M	N	21979	55900.00	418132.00	1145.57	1088.29
285	50 HUCKINS AVE	Squantum Elementary School/ Afterschool Program	773-3299	Sarah Morrison	FS M	N	10470	24600.00	184008.00	504.13	478.92
286	50 HUCKINS AVE	Squantum Elementary School	984-8768	N/A	FS RF M	N	10470	24600.00	184008.00	504.13	478.92
287	69 HUCKINS AVE	Carmine's Café	479-4404	Carmine Apostolio	FS RF M 140	Y	11955	5600.00	41888.00	114.76	109.02
288	20 INDEPENDENCE AVE	Shop + Save	773-2060	Rajminter Saini	RF T 100	N	21449	13633.33	101977.33	279.39	265.42
289	22 INDEPENDENCE AVE	Mary Lou's Coffee	302-4977	Sunise Loring	Fs, FD, M	N	21449	13633.33	101977.33	279.39	265.42
290	22 INDEPENDENCE AVE	Adams Variety	845-5185	James Cucinnatta	M, R, Tob	N	21449	13633.33	101977.33	279.39	265.42
291	29 INDEPENDENCE AVE	John's Fruit Store	592-5409	Rocco Fabino	RF 50	N	12468	1600.00	11968.00	32.79	31.15
292	35 INDEPENDENCE AVE	Spettu's Steak House	934-1663	Mario Rodrigues	FS(175) RF M	Y	13546	40200.00	300696.00	823.82	782.63
293	60 LANCASTER ST	Point Webster School	376-6607	Sara Morrison	FS RF M	N	9835	194400.00	1454112.00	3983.87	3784.68
294	73-75 LIBERTY ST	South Side Café (Tavern)	328-0511	John Manning	FS(125) RF M	Y	17098	25600.00	191488.00	524.62	498.39
295	81-83 LIBERTY ST	Morrisette Post	770-4876	Lawrence Norton	FS(175) M	Y	25933	6100.00	45628.00	125.01	118.76
296	112 LIBERTY ST	South Quincy Bocce Club	972-9226	Kim Trillcott	FS M 90	N	1833	12800.00	95744.00	262.31	249.20
297	1 LINDEN ST	Uplift Afterschool Program	472-9470	Reverend Connie	FS M	N	27618	4700.00	35156.00	96.32	91.50
298	1000 MARRIOTT DR	Boston Marriott Quincy	472-1000	Brad Turnball	FS(175) RF FD M T	Y	26014	2027400.00	15164952.00	41547.81	39470.42
299	11 MCGRATH HIGHWAY	Quincy Health & Rehabilitation Center	479-2820	N/A	FS(175) M	N	22803	492400.00	3683152.00	10090.83	9586.29
300	200 MOODY ST EXT.	Clifford Marshall/ Afterschool Program	481-4477	Sarah Morrison	FS M	N	25425	16450.00	123046.00	337.11	320.26
301	200 MOODY ST EXT.	Clifford H. Marshall Elementary School	984-8721	Sarah Morrison	FS RF M	N	25425	16450.00	123046.00	337.11	320.26
302	20 MOON ISLAND RD	Robert I Nickerson Post #382 American Legion	328-9824	Jim Doherty	FS M 90	Y	23687	20000.00	149600.00	409.86	389.37
303	60 MOUND ST	Town River Yacht Club	471-2716	Mike Lavender	FS(125) RF M	Y	11309	26100.00	195228.00	534.87	508.13
304	60 MURPHY MEMORIAL DR	Center Ice Café	508-962-8156	Peter Kalemkeridis	FS RF FD M	Y	24565	32000.00	239360.00	655.78	622.99
305	108 MYRTLE ST	Corporate Chefs	328-0682	N/A	FS RF M C 290	Y	20612	18900.00	141372.00	387.32	367.95
306	66 NEWBURY AVE	Lucky Wine and Liquor	471-6700	David Bradley	RF M T 115	N	9960	4350.00	32538.00	89.15	84.69
307	68 NEWBURY AVE	I Love Italian Pizza	N/A	Halil Keten	FS RF M 140	Y	9960	4350.00	32538.00	89.15	84.69
308	111 NEWBURY AVE	William R. Caddy Detachment Post	479-3505	Wayne Gunthier	FS M 90	Y	1274	7600.00	56848.00	155.75	147.96
309	161 NEWBURY AVE	5 Corners Food Mart	472-6190	Xuan D Quach	FS RF M T 190	N	14753	1300.00	9724.00	26.64	25.31
310	2S NEWPORT AVE	Newport Café	471-4480	A. Kottat	FS RF M 140	Y	23942	89200.00	667216.00	1827.99	1736.59
311	51 NEWPORT AVE	The Paper Store	769-0018	N/A	RF 50	N	25499	66200.00	495176.00	1356.65	1288.81
312	59 NEWPORT AVE	99 Restaurant & Pub	472-5000	N/A	FS(175) RF FD M	Y	25499	66200.00	495176.00	1356.65	1288.81
313	60 NEWPORT AVE	Chipotle Mexican Grill #1150	328-0413	Jessica Paradiso	FS(125) RF M	Y	28533	76500.00	572220.00	1567.73	1489.34
314	65 NEWPORT AVE	Super Stop & Shop	328-4477	Dan Stronach	FS RF(200) FD M B T	Y	25088	108250.00	809710.00	2218.38	2107.46
315	65 NEWPORT AVE	Ani Food Corp.	508-222-0090	Jess Tun	FS RF 125	N	25088	108250.00	809710.00	2218.38	2107.46
316	65 NEWPORT AVE	Dunkin Donuts/ Stop & Shop	781-223-1699	Kevin Donovan	FS RF FD M 165	N	25088	108250.00	809710.00	2218.38	2107.46
317	100 NEWPORT AVE	Lessing's	781-884-5249	Steve Papsis	FS(125) RF M	Y	23631	301800.00	2257464.00	6184.83	5875.59
318	141 NEWPORT AVE	Ocean State Job Lot	479-1778	Scott King	RF 200	N	23452	20150.00	150722.00	412.94	392.29

							Water Consumption (8/1/18 - 8/31/19)				
FPEID	Address	Establishment	Phone	Manager/Owner Name	Licenses	Grease Trap?	Billing Account Number	Cubic Feet per Year	Gallons	Gallons per Day	Wastewater Discharge (g/day)
319	141 NEWPORT AVE	Marshall's #708	328-9529	N/A	RF 100	N	23452	20150.00	150722.00	412.94	392.29
320	150 NEWPORT AVE	Lessing's/ Newport Ave Café	781-884-5249	N/A	FS RF M 140	N	23257	307000.00	2296360.00	6291.40	5976.83
321	191 NEWPORT AVE	Wendy's Restaurant	472-2983	Abe Ajoury	FS(125) RF FD M	Y	N/A	N/A	N/A	N/A	N/A
322	195 NEWPORT AVE	Windy City Pizza	479-3100	Juan D Tabares	FS RF M 140	Y	23537	45300.00	338844.00	928.34	881.92
323	195 NEWPORT AVE	China Jade	328-0999	Sheng Ming Zou	FS RF 125	Y	23537	45300.00	338844.00	928.34	881.92
324	195 NEWPORT AVE	Lapaloma Mexican Restaurant	772-0512	Mike Walsh	FS(125) M	Y	23537	45300.00	338844.00	928.34	881.92
325	195 NEWPORT AVE	Dunkin Donuts	328-3282	Jasan Cadete	FS RF(100) FD M	N	23537	45300.00	338844.00	928.34	881.92
326	200 NEWPORT AVE	Josiah Quincy Building (Sodexo) 985-3780	N/A	N/A	FS(175) RF M C	Y	23771	340700.00	2548436.00	6982.02	6632.92
327	329 NEWPORT AVE	Wollaston Convience Store	N/A	N/A	N/A	N	17034	53800.00	402424.00	1102.53	1047.40
328	627 NEWPORT AVE	Super Petroleum Inc.	781-356-1960	Mullah Bugazia	T	N	18038	4200.00	31416.00	86.07	81.77
329	12 OLD COLONY AVE	Coffee Break Café	799-2459	Donald Ormond	FS RF M 140	N	17622	20800.00	155584.00	426.26	404.94
330	43 OLD COLONY AVE	Phoenix House	328-0409	N/A	FS	N	22425	226400.00	1693472.00	4639.65	4407.67
331	231 PALMER ST	Palmer Street Market	592-5997	Ashok Patel	FS RF FD M T 215	N	9718	4900.00	36652.00	100.42	95.40
332	333 PALMER ST	Snug Harbor School	984-8763	N/A	FS RF M	N	20584	71000.00	531080.00	1455.01	1382.26
333	366 PALMER ST	Germantown Neighborhood Center/ YMCA Pantry	376-1384	Kathy Quigly	RF	N	21956	41200.00	308176.00	844.32	802.10
334	77 PARKINGWAY	Coffee Break Café	773-3400	Dan Ormond	FS RF M 140	N	18770	10700.00	80036.00	219.28	208.31
335	115 PARKINGWAY	International House of Pancakes	770-9414	N/A	FS(175) FD M	Y	27067	92100.00	688908.00	1887.42	1793.05
336	164 PARKINGWAY	Hancock Park & Rehabilitation Center	773-4222	Richard Coushlin	FS M	N	25041	306300.00	2291124.00	6277.05	5963.20
337	164 PARKINGWAY	Hancock Park Rehab Center-Lobby Shop	773-4222	Richard Coushlin	RF M	N	25041	306300.00	2291124.00	6277.05	5963.20
338	22 PRAY ST	Rosemary & Archie Walhburg Center	N/A	N/A	N/A	N	27935	43300.00	323884.00	887.35	842.99
339	100 QUARRY HILLS DR	Tavern at Quarry Hills	689-1900	Peter O'Connell	FS(175) RF FD M	Y	27501	7300.00	54604.00	149.60	142.12
340	9 QUARRY ST	Domenic the Union Caterer	471-9175	Domenic Silvester	M C	Y	22674	2300.00	17204.00	47.13	44.78
341	120 QUARRY ST	Sons of Italy Lodge #1295	472-2870	Marie Lumaghini	FS(175) RF M	Y	23223	2800.00	20944.00	57.00	54.15
342	254 QUARRY ST	The Tirrell Room	847-6149	Mary Barrett Costello	FS(175) M	Y	24862	45500.00	340340.00	932.44	885.82
343	258B QUARRY ST	Quincy Lodge of Elks	472-2223	N/A	FS(175) RF M	Y	24862	45500.00	340340.00	932.44	885.82
344	12 QUINCY AVE	Christ Church Episcopal	773-0310	Rev. Clifford Brown	FS RF M	N	2610	6800.00	50864.00	139.35	132.39
345	85 QUINCY AVE	India Mart	N/A	N/A	FS RF(200) FD M B T	Y	27903	26900.00	201212.00	551.27	523.70
346	170 QUINCY AVE	O'Lindy's Bowling & Billiards	472-3597	J. Messetti	FS RF FD 150	N	23086	15300.00	114444.00	313.55	297.87
347	215 QUINCY AVE	Dollar Tree Store #3765	328-5214	N/A	RF(200) M	N	22752	633.33	4737.33	12.98	12.33
348	217 QUINCY AVE	Pho Countryside Vietnamese Restaurant	412-1409	Bao Trinh	FS(125) RF M	Y	22752	633.33	4737.33	12.98	12.33
349	217 QUINCY AVE	South Garden	N/A	N/A	N/A	Y	22752	633.33	4737.33	12.98	12.33
350	217 QUINCY AVE 2A-D	Jazz Moon, Inc.	328-8263	Jeff Chen	FS(125) RF(100) M	Y	N/A	N/A	N/A	N/A	N/A
351	219 QUINCY AVE	Kam Man Food	328-1533	Wan Wu	FS(125) RF(200) M B T	Y	22751	120780.00	903434.40	2475.16	2351.40
352	Z19 QUINCY AVE	For My Food	N/A	N/A	R	N	22751	120780.00	903434.40	2475.16	2351.40
353	219 QUINCY AVE #25&26	Lollicup Tea Zone	657-3528	Evan Wong	FS FD M 115	N	22751	120780.00	903434.40	2475.16	2351.40
354	219 QUINCY AVE UNIT 30-31A	Ba Le Sandwhich	773-8053	Jennifer Nguyen	FS RF 125	N	22751	120780.00	903434.40	2475.16	2351.40
355	219 QUINCY AVE	Welcome Herb Store, Inc.	376-9595	Yu Zhen Yu	RF 50	N	22751	120780.00	903434.40	2475.16	2351.40
356	223 QUINCY AVE	Domino's Pizza	328-6801	Mike Hatfield	FS RF 125	Y	2731C	1100.00	8228.00	22.54	21.42
357	225 QUINCY AVE	Gong Dong	N/A	N/A	N/A	N	24790	146000.00	1092080.00	2992.00	2842.40
358	226 QUINCY AVE	Good Fortune Supermarket	718-326-8988	Xian Yung Wu	RF(200) M	N	N/A	N/A	N/A	N/A	N/A
359	229 QUINCY AVE	Hancock Liquor	472-0007	Manny Patel	RF T	N	N/A	N/A	N/A	N/A	N/A
360	235-A QUINCY AVE	Taiyou Shabu, Inc.	773-6888	Hui Hun Li	FS 125	Y	24295	28000.00	209440.00	573.81	545.12
361	237 QUINCY AVE	China Pearl	773-9838	Brian Moi	FS(175) M	Y	25824	223400.00	1671032.00	4578.17	4349.26
362	243 QUINCY AVE	Dunkin Donuts	328-1052	Fernando Sardinh	FS RF FD M 165	N	27475	17300.00	129404.00	354.53	336.80
363	245 QUINCY AVE	Subway	773-4600	Ismail Kayyali	FS RF M 140	Y	23444	17200.00	128656.00	352.48	334.86
364	271 QUINCY AVE	Bheemas Indian Cusine	508-768-7017	Venkata Amaraneni	FS, M. M	Y	23722	4800.00	35904.00	98.37	93.45
365	291 QUINCY AVE	Daily Mart	481-9942	Dinesh Patel	FS, M , RF, Tob	N	23939	1400.00	10472.00	28.69	27.26
366	418 QUINCY AVE	Walgreen's #4403	472-4483	Heather Pina	FS(200) M T	N	19639	5400.00	40392.00	110.66	105.13
367	451 QUINCY AVE	Quincy Gas	47-0007	N/A	T	N	15648	1600.00	11968.00	32.79	31.15
368	460 QUINCY AVE	Arbour Hospital Quincy	801-5121	Leticia Cabrera	FS M 90	N	23652	79400.00	593912.00	1627.16	1545.80
369	305 QUINCY SHORE DR	Manar USA Inc.	770-7999	Roger Elnar	T	N	18441	11500.00	86020.00	235.67	223.89
370	321 QUINCY SHORE DR	CVS Pharmacy #2454	471-0002	Kevin Capen	RF(200) M T	N	N/A	N/A	N/A	N/A	N/A
371	643 QUINCY SHORE DR	A Child's View	328-4332	Joseph McCarthy	FS M 90	N	8455	4500.00	33660.00	92.22	87.61
372	646 QUINCY SHORE DR	Squantum Yacht Club	770-4811	N/A	FS(125) RF M	N	3298	9900.00	74052.00	202.88	192.74
373	665 QUINCY SHORE DR	AD Petro Gas	471-3633	Aymon Souleimon	T	N	12429	3700.00	27676.00	75.82	72.03
374	692 QUINCY SHORE DR	Wollaston Yacht Club	472-9796	Mike Mazrimis	FS RF M 140	N	4057	3400.00	25432.00	69.68	66.19
375	789 QUINCY SHORE DR	The Clam Box	773-6677	Todd Schwanke	FS(125) RF FD M	Y	13023	31900.00	238612.00	653.73	621.04
376	790 QUINCY SHORE DR	Baja Box	773-6677	Todd Schwanke	FS RF FD M 165	Y	23151	10900.00	81532.00	223.38	212.21
377	861 QUINCY SHORE DR	Tony's Clam Shop	773-5090	Roy Kandalaft	FS(125) RF M	Y	6780	26800.00	200464.00	549.22	521.76
378	895 QUINCY SHORE DR	Café Maddie	N/A	N/A	N/A	Y	9687	21300.00	159324.00	436.50	414.68
379	20 RESERVOIR RD	Furnace Brook Golf Club	472-8466	Dave Dyar	FS(125) RF M C	Y	1046B	18900.00	141372.00	387.32	367.95
380	41 SAFFORD ST	Pizza Connection Plus	472-9090	Hasan Prashkon	FS RF M	Y	12905	21700.00	162316.00	444.70	422.47
381	215 SAMOSET AVE	Ginger Betty's Bakery	472-4729	Beth M. Veneto	FS RF M B 240	N	17312	10000.00	74800.00	204.93	194.68
382	13 SCAMMELL ST	Webster's Eatery	479-5459	Maroom Abouzeid	FS(125) M C	Y	3723C	7000.00	52360.00	143.45	136.28

							Water Consumption (8/1/18 - 8/31/19)				
FPEID	Address	Establishment	Phone	Manager/Owner Name	Licenses	Grease Trap?	Billing Account Number	Cubic Feet per Year	Gallons	Gallons per Day	Wastewater Discharge (g/day)
383	15 SCAMMELL ST	Papa's Roastbeef & Pizza	773-7400	Nikollaq Papa	FS RF M 140	Y	3723B	17400.00	130152.00	356.58	338.75
384	21 SCAMMELL ST	Lucky Dragon	479-7393	Phillip Hui	FS RF M 140	Y	3723F	30800.00	230384.00	631.19	599.63
385	25 SCAMMELL ST	Presidential Discount Liquors	773-7737	Michael Shane	RF(100) M T	N	3723E	5900.00	44132.00	120.91	114.86
386	33 SCAMMELL ST	Donut N Donut	479-2852	Petros Muratosly	FS RF(100) FD M T	N	3723D	11200.00	83776.00	229.52	218.05
387	3 SCHOOL ST	Schoolhouse Pizza	770-3141	Randall Dodson	FS RF M 140	Y	13351	56100.00	419628.00	1149.67	1092.18
388	26 SCHOOL ST	Sushi Time II	328-8887	Dwayne Law	FS RF C 275	Y	10095	1900.00	14212.00	38.94	36.99
389	34 SCHOOL ST	Alltown Check Cashing	984-0009	James Paras	T	N	10095	1900.00	14212.00	38.94	36.99
390	36 SCHOOL ST	Sam's Restaurant	471-6767	Sam Kutolas	FS RF M 140	Y	10095	1900.00	14212.00	38.94	36.99
391	59 SCHOOL ST	School Street Gas	479-9120	Salim Youssef	T	N	18807	1300.00	9724.00	26.64	25.31
392	68 SCHOOL ST	Bee Zee Auto	479-7978	Salim Youssef	T	N	1143	2500.00	18700.00	51.23	48.67
393	105 SEA ST	Imperial TER Restaurant	471-2255	Giuai King Yip Choi	FS(175) M	Y	17926	42400.00	317152.00	868.91	825.46
394	123 SEA ST	The Fox and Hound Wood Grill & Tavern	471-4030	Steve Curran	FS(175) M	Y	17202	81100.00	606628.00	1661.99	1578.89
395	200 SEA ST	200 Food Mart	472-3489	Santeeu Rai	FS RF(100) FD M T	N	23968	6600.00	49368.00	135.25	128.49
396	211 SEA ST	Grumpy Whites	770-2835	Robery White	FS(125) M	Y	17856	63500.00	474980.00	1301.32	1236.25
397	364 SEA ST	Dunkin Donuts	479-9821	Paul Cleary	FS RF FD M 165	N	N/A	N/A	N/A	N/A	N/A
398	346 SEA ST	Sea Street Gas & Repairs	773-8392	Rabih Habchy	T	N	17428	2900.00	21692.00	59.43	56.46
399	400 SEA ST	J & T Hofbrau	781-706-2594	Mike Novak	FS M T 140	N	11601	10000.00	74800.00	204.93	194.68
400	405 SEA ST	Harry's Pizza, Seafood & Grill	479-8270	Haidar Fawaz	FS RF FD M 115	Y	21373	4400.00	32912.00	90.17	85.66
401	494 SEA ST	Adams Shore Market	472-6455	Nicholas Phillips	RF FD M T 140	N	7517	3800.00	28424.00	77.87	73.98
402	524 SEA ST	Time Out Pizza	479-2300	Pamela Pesiridis	FS RF M 140	Y	17007	11500.00	86020.00	235.67	223.89
403	895 SEA ST	Super Petroleum	781-356-1976	Muftah Bugazia	T	N	17794	2000.00	14960.00	40.99	38.94
404	1084 SEA ST	Atherton Hough/ Afterschool Program	772-3299	Sarah Morrison	RF M	N	N/A	N/A	N/A	N/A	N/A
405	1084 SEA ST	Atherton Hough School	984-8797	Susan Mullen	FS RF M	N	N/A	N/A	N/A	N/A	N/A
406	1094 SEA ST	Hough Many Scoops	302-3961	N/A	FS FD M 115	N	14354	4500.00	33660.00	92.22	87.61
407	1099 SEA ST	Manet Lunch	471-7698	Bernard Van Tassell	FS RF M T 190	Y	10111	8700.00	65076.00	178.29	169.38
408	1149 SEA ST	Bernie's Variety	770-7441	Michael Van Tassell	FS RF FD M T 215	N	12638	9600.00	71808.00	196.73	186.90
409	1183 SEA ST	Houghs Neck Package Store	472-2259	Kim Nguyen	RF T 100	N	7970	1200.00	8976.00	24.59	23.36
410	1269 SEA ST	Louis	481-1980	Bob Galligan	FS(125) M	Y	5000	4000.00	29920.00	81.97	77.87
411	1310 SEA ST	Quincy Yacht Club	N/A	N/A	N/A	Y	8850	14100.00	105468.00	288.95	274.51
412	2 SEAPORT DR	Marina Bay Skilled Nursing & Rehabilitation Center	770-3264	Atria	FS(175) M	Y	25939	877400.00	6562952.00	17980.69	17081.66
413	4 SEAPORT DR	Marina Place	770-3264	N/A	FS(175) M	Y	25399	485800.00	3633784.00	9955.57	9457.79
414	1 SHORE AVE	Merrymount Canteen	733-1327	Merrymount Association	FS RF M 140	Y	99974	1400.00	10472.00	28.69	27.26
415	470 SOUTH ST	Islamic Center of New England	479-8341	N/A	FS M	N	22576	45400.00	339592.00	930.39	883.87
416	540 SOUTH ST	Pete's Grill	471-9714	Louis Gangi	FS(125) M T	Y	4867	21200.00	158576.00	434.45	412.73
417	447 SOUTHERN ARTERY	KBR, Inc.	472-5818	Keven Bearde	T	N	18047	5300.00	39644.00	108.61	103.18
418	4S0 SOUTHERN ARTERY	Stop & Shop Gas Station	328-1242	Bill Summer	T	N	27985	1900.00	14212.00	38.94	36.99
419	459 SOUTHERN ARTERY	Quincy Car Wash	479-4119	George Brewster	RF 50	N	20105	119000.00	890120.00	2438.68	2316.75
420	470 SOUTHERN ARTERY	Sala By Fratellis	N/A	John Milone	N/A	Y	24027	8700.00	65076.00	178.29	169.38
421	473 SOUTHERN ARTERY	McDonald's Restaurant	479-6488	Joe Napoli	FS(125) RF FD M	Y	23536	64400.00	481712.00	1319.76	1253.77
422	479 SOUTHERN ARTERY	Roxie's of Quincy	773-3700	Ed Rubin	FS RF(100) M	N	21935	25400.00	189992.00	520.53	494.50
423	495 SOUTHERN ARTERY	Super Stop & Shop	773-4510	N/A	FS RF(200) M T B	Y	25990	94350.00	705738.00	1933.53	1836.85
424	495 SOUTHERN ARTERY	Dunkin Donuts	773-4510	Victor Carvalho	FS RF FD M	N	25990	94350.00	705738.00	1933.53	1836.85
425	520 SOUTHERN ARTERY	Wendy's Restaurant	472-3981	Boye Jallow	FS(125) RF FD M	Y	28783	119900.00	896852.00	2457.13	2334.27
426	543 SOUTHERN ARTERY	Dunkin Donuts	472-9502	Victor Carvalho	FS RF FD M 165	N	18456	38000.00	284240.00	778.74	739.80
427	626 SOUTHERN ARTERY	CVS Pharmacy #137	42-7534	Derek Johnson	RF(200) M	N	25702	11800.00	88264.00	241.82	229.73
428	637 SOUTHERN ARTERY	Edway Liquors Enterprise	773-6666	Edy Yasmine	RF T	N	17539	21050.00	157454.00	431.38	409.81
429	653 SOUTHERN ARTERY	Punjab Café	472-4860	Balwant Singh	FS(125) M	Y	17539	21050.00	157454.00	431.38	409.81
430	728 SOUTHERN ARTERY	Super Petroleum Inc.	781-356-1960	Muftah Bugazia	T	N	20314	96400.00	721072.00	1975.54	1876.76
431	825 SOUTHERN ARTERY	Dunkin Donuts	472-0752	Victor Carvalho	FS RF FD M 165	N	23013	12050.00	90134.00	246.94	234.60
432	1000 SOUTHERN ARTERY	Senior Housing	471-1000	Brian Baharian	FS(175) M	Y	22742	487100.00	3643508.00	9982.21	9483.10
433	1000 SOUTHERN ARTERY	Artery Groceries	773-8281	Joseph Moses	RF M 65	N	22742	487100.00	3643508.00	9982.21	9483.10
434	121 STANDISH AVE	Everest Market	328-0595	Bishwo manandhar	FS RF FD M T 215	N	27901	800.00	5984.00	16.39	15.57
435	29 TEMPLE ST	Presidential Pub	479-2104	Bill Ryan	FS M 90	N	13112	19400.00	145112.00	397.57	377.69
436	11 VERNON ST	Sushi Catering/Sushi Time	N/A	N/A	N/A	N	19344	17000.00	127160.00	348.38	330.96
437	305 VICTORY RD	Port 305	302-4447	Kristie Henriksen	FS(175) M C	Y	24107	69300.00	518364.00	1420.18	1349.17
438	307 VICTORY RD	Siro's Restaurant	472-4500	Kristie Henriksen	FS(175) M	Y	24129	3950.00	29546.00	80.95	76.90
439	307 VICTORY RD	Blue	472-4500	Kristie Henriksen	FS M 90	Y	24129	3950.00	29546.00	80.95	76.90
440	319 VICTORY RD	The Water Club	847-6500	William O'Connell	FS(125) FD M	Y	25396	27000.00	201960.00	553.32	525.65
441	321 VICTORY RD	Cream & Sugar	770-3600	Carol O'Connell	FS RF FD M 165	Y	24111	4400.00	32912.00	90.17	85.66
442	332 VICTORY RD	Victory Point	N/A	Donato Frattorolli	N/A	Y	25853	11600.00	86768.00	237.72	225.83
443	333 VICTORY RD	Gaveston Café	N/A	N/A	N/A	Y	30334	7300.00	54604.00	149.60	142.12
444	333 VICTORY RD	The Chantey at Marina Bay	770-4121	William O'Connell	FS(125) FD M T	Y	30334	7300.00	54604.00	149.60	142.12
445	500 VICTORY RD	Café at Marina Bay	857-205-3154	Ann Smith	FS(125) RF M C	Y	24169	394000.00	2947120.00	8074.30	7670.59
446	532 VICTORY RD	Marina Bay Market	N/A	N/A	N/A	N	30167	243500.00	1821380.00	4990.08	4740.58

							Water Consumption (8/1/18 - 8/31/19)				
FPEID	Address	Establishment	Phone	Manager/Owner Name	Licenses	Grease Trap?	Billing Account Number	Cubic Feet per Year	Gallons	Gallons per Day	Wastewater Discharge (g/day)
447	542 VICTORY RD	Reelhouse Marina Bay	N/A	N/A	FS, M	Y	30167	243500.00	1821380.00	4990.08	4740.58
448	64 WASHINGTON COURT	The Inn at Bay Point	472-3200	Kevin Hynes	FS(175) FD M	Y	25437	103800.00	776424.00	2127.19	2020.83
449	33 WASHINGTON ST	Quincy Market	471-7355	Mayuri Patel	FS RF M T 190	Y	5182	36600.00	273768.00	750.05	712.55
450	40 WASHINGTON ST	Billy's Café	770-1500	Billy Beydoon	FS RF M 140	N	25615	58800.00	439824.00	1205.00	1144.75
451	57 WASHINGTON ST	Quincy Mutual Fire Insurance	472-8770	N/A	FS RF M	Y	24685	77400.00	578952.00	1586.17	1506.86
452	94 WASHINGTON ST	Cucina Mia	479-1946	Debby Mignosa	FS RF M 140	Y	19186	54000.00	403920.00	1106.63	1051.30
453	134 WASHINGTON ST	Romanzza Pizzeria and More	N/A	Staurs Koci	FS RF M 140	Y	2128	17400.00	130152.00	356.58	338.75
454	210 WASHINGTON ST	The Pour Yard	N/A	N/A	N/A	Y	6600	5900.00	44132.00	120.91	114.86
455	214 WASHINGTON ST	Cagney's Restaurant	847-3940	Mark Dibona	FS(125) M	Y	6600	5900.00	44132.00	120.91	114.86
456	230 WASHINGTON ST	7-11 Store	773-3839	N/A	FS RF(100) FD M T	N	12428	5350.00	40018.00	109.64	104.16
457	230 WASHINGTON ST	Point Liquors	773-1818	Judith Deschenes	RF T 100	N	12428	5350.00	40018.00	109.64	104.16
458	252 WASHINGTON ST	Torre Del Passeri Social Club	472-9360	Joseph Pjopolo	FS M 90	N	7547	5800.00	43384.00	118.86	112.92
459	252 REAR WASHINGTON ST	South Quincy Social Club	770-0381	N/A	FS M 90	N	6341	5600.00	41888.00	114.76	109.02
460	288 WASHINGTON ST	South Cove Manner & Rehab Center	423-7922	George Kin	FS(175) M	N	28821	568300.00	4250884.00	11646.26	11063.94
461	330 WASHINGTON ST	Thao's Dairy Farm	472-1959	Nancy Nguyen	RF M T 115	N	11137	17900.00	133892.00	366.83	348.49
462	342 WASHINGTON ST	Nilo's Market	N/A	N/A	M, RF, Tob	N	13966	8700.00	65076.00	178.29	169.38
463	338 WASHINGTON ST	Atlantic House/ Center for Health & Development	770-9660	N/A	FS M	N	13966	8700.00	65076.00	178.29	169.38
464	375 WASHINGTON ST	Rag's Tavern	770-0303	Ed Cochrane	FS RF M 140	Y	9743	18300.00	136884.00	375.02	356.27
465	379 WASHINGTON ST	Quincy House of Pizza	481-9186	Noshi Girsis	FS RF 125	Y	9743	18300.00	136884.00	375.02	356.27
466	435 WASHINGTON ST	Frozen Freddies	328-7772	Dawn Gaffney	FS RF FD M 165	N	13512	3800.00	28424.00	77.87	73.98
467	464 WASHINGTON ST	Baxter Pharmacy	773-7733	Thomas Libby	RF T 100	N	23013	12050.00	90134.00	246.94	234.60
468	479 WASHINGTON ST	Jersey Mikes Subs	934-4777	Al Graziano	RS, R, M	Y	30424	2500.00	18700.00	51.23	48.67
469	495 WASHINGTON ST	7-11 Store	479-1935	Waleed Al-Shurafa	FS RF FD M T 215	N	23440	42033.33	314409.33	861.40	818.33
470	499 WASHINGTON ST	Jimmy's House of Pizza	984-0333	Elizabeth Skafidas	FS RF M 140	Y	23440	42033.33	314409.33	861.40	818.33
471	501 WASHINGTON ST	Thai Noodle Bar	N/A	N/A	N/A	Y	23440	42033.33	314409.33	861.40	818.33
472	520 WASHINGTON ST	Coops Bar & Grille	472-2667	Mario Recupero	FS(175) M	Y	23569	45100.00	337348.00	924.24	878.03
473	527-529 WASHINGTON ST	Quincy International Foods	479-8353	Eric Ricupero	FS M 90	N	8547	3500.00	26180.00	71.73	68.14
474	531 WASHINGTON ST	Bravo Pizzeria	471-3300	Michael Reza	FS RF M 140	Y	11424	9100.00	68068.00	186.49	177.16
475	536 WASHINGTON ST	Criack Irish Pub	N/A	N/A	N/A	Y	10481	28000.00	209440.00	573.81	545.12
476	588 WASHINGTON ST	Dunkin Donuts	N/A	N/A	N/A	N	25250	46600.00	348568.00	954.98	907.23
477	603 WASHINGTON ST	Discount Liquors/ Quick-6	472-3023	Gurmit Singh	RF M T 115	N	3113	3000.00	22440.00	61.48	58.41
478	609 WASHINGTON ST	Maggy's Lounge	481-5141	George Pepdjonovic	FS M 90	N	121	17500.00	130900.00	358.63	340.70
479	618 WASHINGTON ST	A Child's View	773-5437	Christine Hyslip	FS M 90	N	N/A	N/A	N/A	N/A	N/A
480	652 WASHINGTON ST	Dairy Queen	770-3920	David Chu	FS FD M 115	Y	20474	7300.00	54604.00	149.60	142.12
481	664 WASHINGTON ST	US Petroleum	773-6110	Nick Taylor	T	N	N/A	N/A	N/A	N/A	N/A
482	723A WASHINGTON ST	The Lobster Stop	405-4760	Peter Dawson	FS RF 125	Y	20582	17500.00	130900.00	358.63	340.70
483	139 WATER ST	Mina Halal Meat & Groceries	472-0031	Umar Chaudhry	FS RF M 140	N	13626	8800.00	65824.00	180.34	171.32
484	143 WATER ST	Turo Turo	471-8876	Jervin Erasquin	FS RF 125	N	13626	8800.00	65824.00	180.34	171.32
485	145R WATER ST	Miam Miam Macaronene	N/A	N/A	N/A	N	13626	8800.00	65824.00	180.34	171.32
486	145R WATER ST	Catering by Terrie	N/A	N/A	CAT,	N	13626	8800.00	65824.00	180.34	171.32
487	145 WATER ST	Sure Pinoy Oriental Food Mart	328-8880	Carmen Gato	RF M 65	Y	13626	8800.00	65824.00	180.34	171.32
488	226 WATER ST	Goal Post Bar & Grille	471-6306	Joe Mulkerins	FS(125) M T	Y	14725	28200.00	210936.00	577.91	549.01
489	263 WATER ST	Agileyan Convenience	N/A	N/A	RF M T 115	N	934	22000.00	164560.00	450.85	428.31
490	376 WATER ST	Water Street Petroleum	479-9559	Fali Daher	T	N	15102	3100.00	23188.00	63.53	60.35
491	171 WEST ST	Corner Store & Deli	773-1939	Mohammed A. Uddin	RF M T 115	N	5558	6900.00	51612.00	141.40	134.33
492	139 WEST ELM AVE	NS Corner Store	N/A	N/A	FS, M, T,	N	5936	1500.00	11220.00	30.74	29.20
493	203 WEST SQUANTUM ST	MauLNy's Variety	328-0240	James MulLNy	FS RF(100) FD M T	N	14465	1300.00	9724.00	26.64	25.31
494	218 WEST SQUANTUM ST	David's Pizza	801-2100	Gazmend Struga	FS RF FD M 160	Y	24657	10200.00	76296.00	209.03	198.58
495	357 WEST SQUANTUM ST	The View Restaurant & Tavern	770-2580	Christopher Carr	FS(125) RF M	Y	23995	27400.00	204952.00	561.51	533.44
496	93-97 WILLARD ST	The Common Market	472-5492	Greg McDonald	FS(175) M T	Y	24138	184000.00	1376320.00	3770.74	3582.20
497	110 WILLARD ST	Village Food Mart	472-5492	Greg McDonald	FS(125) RF FD M B T	Y	3857	74300.00	555764.00	1522.64	1446.51
498	177 WILLARD ST	Home Depot #2670	376-0380	N/A	RF 50	N	24681	12800.00	95744.00	262.31	249.20
499	258 WILLARD ST	Emmalisa Restaurant	328-3337	N/A	N/A	Y	1716A	2800.00	20944.00	57.38	54.51
500	273 WILLARD ST	Old Railroad Café	770-0441	Zake Ibrahim	FS RF M 140	Y	22565	16300.00	121924.00	334.04	317.34
501	304 WILLARD ST	Granite Mart Inc.	481-2035	Jitemdrei Patel	FS RF FD M T 215	N	4297	14050.00	105094.00	287.93	273.53
502	308 WILLARD ST	Marylou's Coffee	376-7580	Marylou Sandry	FS FD M 115	N	4297	14050.00	105094.00	287.93	273.53
503	552 WILLARD ST	Blue Hill Ave. Gas & Auto	781-888-5333	George Fadel	T	N	13291	17700.00	132396.00	362.73	344.59
504	859 WILLARD ST	Corporate Chefs	773-0150	Branda Rodrigues	FS(125) RF M C	Y	23966	202700.00	1516196.00	4153.96	3946.26

APPENDIX G: MASSACHUSETTS PLUMBING CODE

248 CMR 10.09: Uniform State Plumbing Code

2) Grease Traps and Interceptors When Installed Inside of Buildings.

(a) Grease traps and interceptors shall be installed in the following establishments to prevent the discharge of fats, oils, and grease into the drainage system:

1. restaurants;
2. cafeterias;
3. hotels;
4. hospitals;
5. institutional facilities;
6. factories;
7. clubs;
8. bars where food is prepared and served; and
9. all commercial kitchens; food and meat packing and processing establishments; super markets, bakeries, and other establishments where fats, oils and grease may be introduced into the building sanitary drainage system in quantities that can cause waste line obstruction or hinder sewage disposal,

(b) Grease traps and interceptors may be installed on individual fixture waste branches.

(c) Plumbing fixtures to be protected by grease traps and interceptors shall include:

1. pot sinks (with bowl depths exceeding ten inches);
2. scullery sinks (with bowl depths exceeding ten inches),
3. floor drains;
4. floor sinks;
5. automatic dishwashers regardless of temperature;
6. pre-rinse sinks;
7. soup kettles or similar devices;
8. wok stations; and
9. automatic hood wash units;

(d) In unsewered areas refer to 310 CMR 15.00: The State Environmental Code, Title 5: Standard Requirements for the Siting, Construction, Inspection, Upgrade and Expansion of On-site Sewage Treatment and Disposal Systems and for the Transport and Disposal of Septage relative to grease removal at installations from which large quantities of grease can be expected to discharge.

(e) Floor Drain Exception: Floor drains that may encounter grease residue and are specifically designed for this purpose may conduct grease to an outside grease interceptor. Grease interceptors may be installed on a separate building drain and shall only receive the discharge from fixtures or equipment which would allow fats, oils or grease to be discharged to the sanitary drainage system.

(f) Food Waste Grinders and Pre-rinse Sinks.

1. The waste from dishwasher pre-rinse sinks that are not equipped with food waste grinders shall be discharged to the drainage system through a grease trap interceptor.
2. A dishwasher pre rinse sink drain not equipped with a food waste grinder that conveys the waste discharge to a dish washing machine drain as shown in 248 CMR 10.22: Figure 22 shall be a minimum diameter of two inch. The total developed length of the horizontal waste drain from the dishwasher pre-rinse sink outlet to the weir of the dish washing machine trap shall not exceed eight feet.
3. The waste discharge from a commercial food waste grinder (garbage disposal) shall not discharge to the sanitary drainage system through a grease trap. Dishwasher pre-rinse sinks equipped with food waste grinders shall be discharged in accordance with 248 CMR 10.10(8)(b), (c), and (d).

(g) Sizing, Testing and Rating.

1. Grease traps and interceptors shall not be installed unless sized, tested, and certified according to PDI-G101 or ASME A112.14.3 or ASME A112.14.4.
2. Grease traps and interceptors must bear the certification seal of the Plumbing and Drainage Institute (P.D.I.) or AMSE. The Board may authorize the use of alternate design traps and interceptors in accordance with 248 CMR 3.04(2) or (3).

(h) Capacity. Installed grease traps and interceptors shall have a grease retention capacity of not less than two pounds of grease for each G.P.M (gallon-per-minute) of flow.

(i) Flow Control Device.

1. Grease traps and interceptors shall be equipped with flow control devices. A flow control device may be equipped with a vented (air intake) or be of an integral non-vented design. Integral non-vented flow control device shall be placed in accordance with manufacturers recommendations. A flow control device is required to be installed between the fixture and the grease trap/interceptor in accordance with manufacturers instructions.
2. The flow control device is designed to regulate the flow and discharge rate of waste water through the trap or interceptor.

3. The vented external flow control device air intake when installed in combination with a Grease Trap, may terminate to the free atmosphere provided it terminates a minimum of six inches above the flood level rim of the fixture(s) being served.
4. The vented external flow control devices when installed in combination with a Grease Interceptor may connect to the sanitary venting system of a building or structure provided that the external flow control and fixture(s) are protected by a trap installed in accordance with all applicable provisions of 248 CMR 10.00.
5. A flow control device will not be required for interceptor/separators that are designed to provide a retention capacity of 30 minutes or less.

(j) Water Cooled Interceptors/Separators. The use of water- cooled interceptors/separators is prohibited.

(k) Interceptors Not Required.

1. Grease traps and interceptors are not required for residential building(s), structure(s), dwellings or dwelling units or any private residence.
2. Grease traps and interceptors shall be required in buildings deemed residential that incorporate commercial cooking accommodations.

(l) Treatment Agents and Chemicals. Chemicals, liquids or agents of any type used for the primary purpose of emulsification and separation of grease that by formula allow grease to be transferred or conveyed from the trap or interceptor to the drainage system are prohibited.

(m) Maintenance.

1. Grease and accumulated solids shall be removed from traps and interceptors and disposed of in accordance with applicable Federal, State and Local health code requirements by the owner or his/her agent. Federal, State and Local laws, regulations and by-laws may require monitoring and registration of installed traps and interceptors.
2. The local board of health official(s) or similar authority having jurisdiction may require other methods or programs to monitor maintenance of grease traps and interceptors.
3. A laminated sign shall be stenciled on or in the immediate area of the grease trap or interceptor in letters one-inch high. The sign shall state the following in exact language:

IMPORTANT This grease trap/interceptor shall be inspected and thoroughly cleaned on a regular and frequent basis. Failure to do so could result in damage to the piping system, and the municipal or private drainage system(s).

(n) Procedures for Sizing Grease Interceptors.

1. Grease traps and interceptors shall be sized in accordance with the following Recommended Procedures For Sizing Grease Interceptor and 248 CMR 10.22: Figure 22.
2. Recommended Procedures and Formulas for Installing Grease Traps and Interceptors. As a general rule it is recommended that traps and interceptors be sized in accordance with the formulas indicated in 248 CMR 10.09: Tables 1 through 3. It is favorable policy to size the interceptor so that its rated capacity is never less than 40% of the individual fixture capacity in gallons. In the example below the actual fixture capacity is 59.8 Gals. and 40% of this would be 23.9 Gals. It is understood that a drainage period other than one or two minutes can be used.

248 CMR 10.09: **Table 1**: **RECOMMENDED PROCEDURE FOR SIZING GREASE TRAPS AND INTERCEPTORS INSIDE BUILDINGS**

EXAMPLE (Single Compartment)

STEP 1. Determine the cubic content of the fixture by multiplying length x width x depth, (of each comp)	A sink 48" long by 24" width by 12" deep. Cubic content 48" x 24" x 12" = 13,824 cu. in. or Cubic contents 4' x 2' x 1' x 7.5 Gals. = 60 Gals.
STEP 2. Determine the total capacity in gallons. 1 gallon = 231 cubic inches	Contents in Gallons 13,824/231 = 59.8 Gals.
STEP 3. Determine actual drainage load. The fixture is usually filled to approximately 75% of the capacity with waste water. The items being washed displace about 25% of the fixture content. Actual drainage load = 75% of fixture capacity.	Actual Drainage Load .75 x 59.8 Gals. = 44.9Gals
STEP 4. Determine the flow rate and the drainage period. In general, good practices dictate a one minute drainage period, however where conditions permit, a two minute period is acceptable. Drainage period is the actual time required to completely empty the fixture.	Calculate flow rate for 1 minute period. Flow rate 44.9 Gals.1/min. = 44.9 G.P.M. For 2 minute period Flow rate 44.9 Gals./2min. = 22.5 G.P.M.

STEP 5. Select the interceptor which corresponds to the flow rate calculated Note: Select larger size when flow rate falls between two sizes listed.	
NOTE: The example above is representative of acceptable method(s) when purchasing an interceptor based on the total fixture flow rate capacity in gallons. When purchasing an interceptor based on grease retention pounds only, multiply the total gallon flow rate capacity of the fixture by two.	

248 CMR 10.09 **Table 2**: **SIZING FORMULAS FOR LARGE CAPACITY GREASE INTERCEPTORS (INSIDE OR OUTSIDE BUILDINGS)**

For Restaurants:	**Other Establishments with Commercial Kitchens:**
(S) X (GS) X (HR/12) X (LF) = Effective Capacity of Grease Traps and Interceptors in Gallons	(M) X (GM) X (LF) = Effective Capacity of Grease Traps and Interceptors in Gallons
WHERE:	WHERE:
S = Number of Seats in Dining Area GS = Gallons of Waste Water Per Seat: HR = Number of Hours Restaurant is Open. LF = Loading Factor Use 25 Gallons for Restaurants with China Dishes and/or automatic dishwashers Use 10 Gallons for Restaurants with Paper or Baskets and No Dishwashers.	M = Meals Prepared Per Day GM = Gallons of Waste Water Per Meal (Use 5 Gallons) LF = Loading Factor Use 1.00 with dishwashing machines and 0.75 without dishwashing machine.
Loading Factors:	
Use 2.00 Interstate Highway, Use 1.00 Main Highway, Use 0.75 Other Highways Use 1.50 Other Roadways Use 1.25 Recreational Areas	

248 CMR 10.09: **Table 3**: **CAPACITY OF GREASE TRAPS AND INTERCEPTORS**

Total Flow Through Rating (g.p.m)	Grease Trap/Interceptor Retention Capacity (pounds)
4	8
6	12
7	14
9	18
10	20
12	24
14	28
15	30
18	36
20	40
25	50
35	70
50	100

(3) Grease Interceptors Installed Outside of the Buildings

(a) General Requirements for Outside Interceptors. When an outside grease interceptor is installed, the entire installation within the property line shall comply with 248 CMR 10.03: Dedicated Systems, and the installation shall be designed by a registered professional mechanical engineer.

(b) This installation shall require a chamber vent which shall:

1. be piped to the inside of the building in compliance with 248 CMR 10.16(5)(e); and
2. shall be not less than four inch minimum pipe diameter.

APPENDIX H: PROCEDURES FOR SIZING GREASE TRAPS AND INTERCEPTORS

Note: The grease trap/interceptor sizing procedures provided below are for **reference only** based on the Uniform State Plumbing Code regulations 248 CMR 10.00. For more information on sizing FOG control devices for your establishment, consult with a plumbing contractor licensed in the Commonwealth of Massachusetts.

PROCEDURES FOR SIZING GREASE INTERCEPTORS

1. Grease traps and interceptors shall be sized in accordance with the following Recommended Procedures For Sizing Grease Interceptor and 248 CMR 10.22: Figure 22.
2. Recommended Procedures and Formulas for Installing Grease Traps and Interceptors. As a general rule it is recommended that traps and interceptors be sized in accordance with the formulas indicated in 248 CMR 10.09: Tables 1 through 3. It is favorable policy to size the interceptor so that its rated capacity is never less than 40% of the individual fixture capacity in gallons. In the example below the actual fixture capacity is 59.8 Gals. and 40% of this would be 23.9 Gals. It is understood that a drainage period other than one or two minutes can be used.

Table 1: RECOMMENDED PROCEDURE FOR SIZING GREASE TRAPS AND INTERCEPTORS INSIDE BUILDINGS

EXAMPLE (Single Compartment)

STEP 1. Determine the cubic content of the fixture by multiplying length x width x depth, (of each comp)	A sink 48" long by 24" width by 12" deep. Cubic content 48" x 24" x 12" = 13,824 cu. in. or Cubic contents 4' x 2' x 1' x 7.5 Gals. = 60 Gals.
STEP 2. Determine the total capacity in gallons. 1 gallon = 231 cubic inches	Contents in Gallons 13,824/231 = 59.8 Gals.
STEP 3. Determine actual drainage load. The fixture is usually filled to approximately 75% of the capacity with waste water. The items being washed displace about 25% of the fixture content. Actual drainage load = 75% of fixture capacity.	Actual Drainage Load .75 x 59.8 Gals. = 44.9Gals
STEP 4. Determine the flow rate and the drainage period. In general, good practices dictate a one minute drainage period, however where conditions permit, a two minute period is acceptable. Drainage period is the actual time required to completely empty the fixture.	Calculate flow rate for 1 minute period. Flow rate 44.9 Gals.1/min. = 44.9 G.P.M. For 2 minute period Flow rate 44.9 Gals./2min. = 22.5 G.P.M.
STEP 5. Select the interceptor which corresponds to the flow rate calculated Note: Select larger size when flow rate falls between two sizes listed.	
NOTE: The example above is representative of acceptable method(s) when purchasing an interceptor based on the total fixture flow rate capacity in gallons. When purchasing an interceptor based on grease retention pounds only, multiply the total gallon flow rate capacity of the fixture by two.	

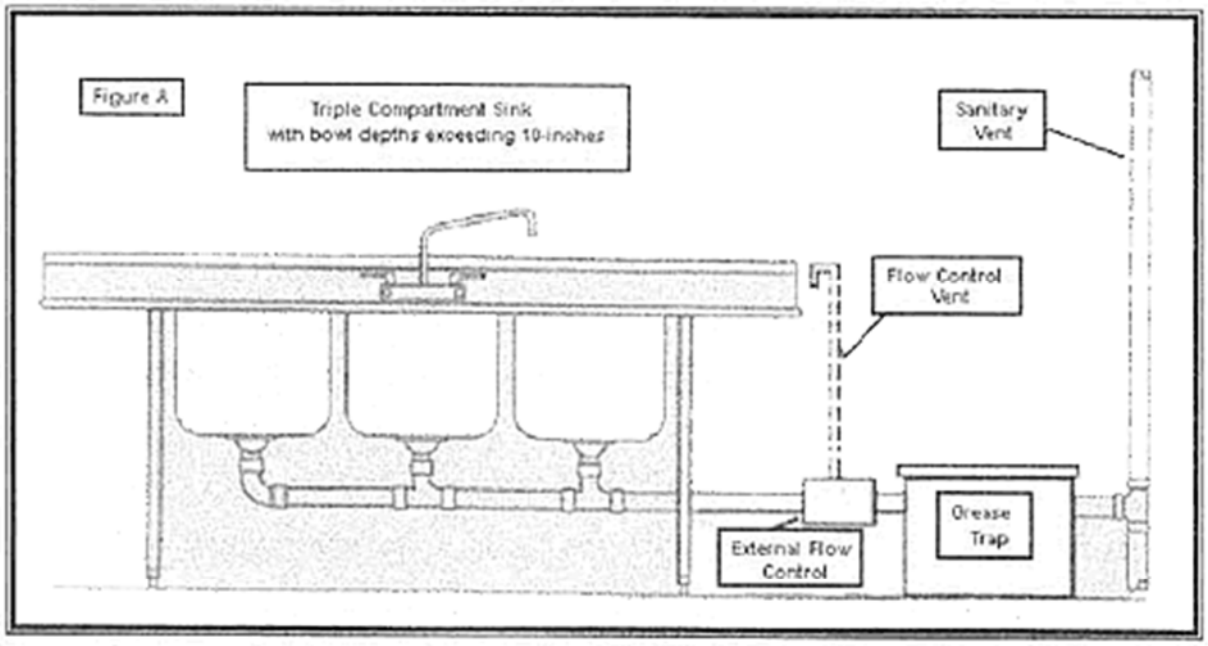
Table 2: SIZING FORMULAS FOR LARGE CAPACITY GREASE INTERCEPTORS (INSIDE OR OUTSIDE BUILDINGS)

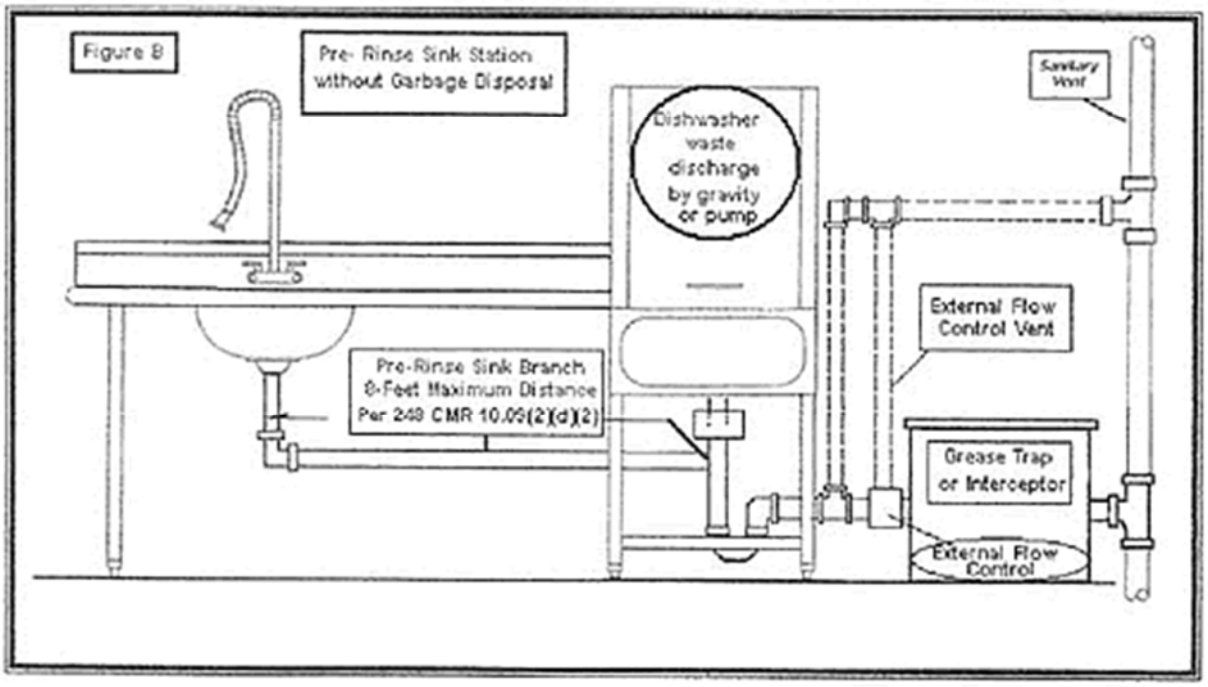
For Restaurants:	**Other Establishments with Commercial Kitchens:**
(S) X (GS) X (HR/12) X (LF) = Effective Capacity of Grease Traps and Interceptors in Gallons	(M) X (GM) X (LF) = Effective Capacity of Grease Traps and Interceptors in Gallons
WHERE:	WHERE:
S = Number of Seats in Dining Area GS = Gallons of Waste Water Per Seat: HR = Number of Hours Restaurant is Open. LF = Loading Factor Use 25 Gallons for Restaurants with China Dishes and/or automatic dishwashers Use 10 Gallons for Restaurants with Paper or Baskets and No Dishwashers.	M = Meals Prepared Per Day GM = Gallons of Waste Water Per Meal (Use 5 Gallons) LF = Loading Factor Use 1.00 with dishwashing machines and 0.75 without dishwashing machine.
Loading Factors:	
Use 2.00 Interstate Highway, Use 1.00 Main Highway, Use 0.75 Other Highways Use 1.50 Other Roadways Use 1.25 Recreational Areas	

Table 3: CAPACITY OF GREASE TRAPS AND INTERCEPTORS

Total Flow Through Rating (g.p.m)	Grease Trap/Interceptor Retention Capacity (pounds)
4	8
6	12
7	14
9	18
10	20
12	24
14	28
15	30
18	36
20	40
25	50
35	70
50	100

Illustrations of Installation of Grease Interceptors





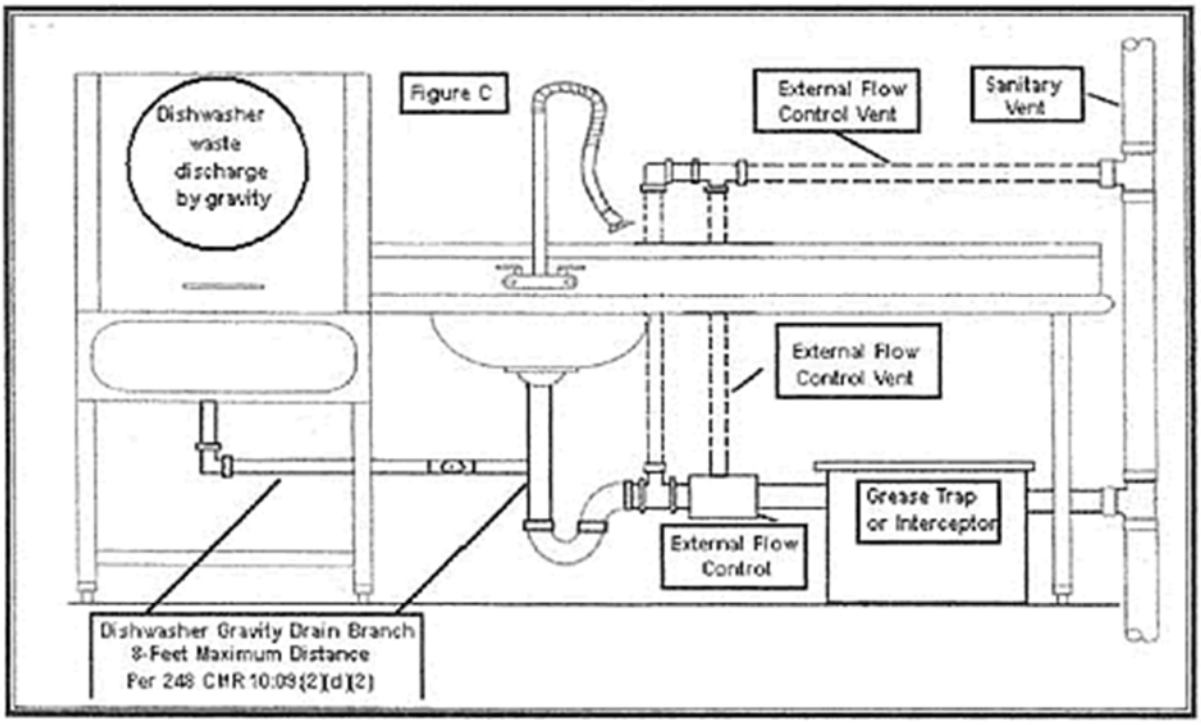


Figure C
Dishwasher waste discharge by gravity
External Flow Control Vent
Sanitary Vent
External Flow Control Vent
Grease Trap or Interceptor
External Flow Control
Dishwasher Gravity Drain Branch 8-Feet Maximum Distance Per 248 CMR 10.09(2)(d)(2)

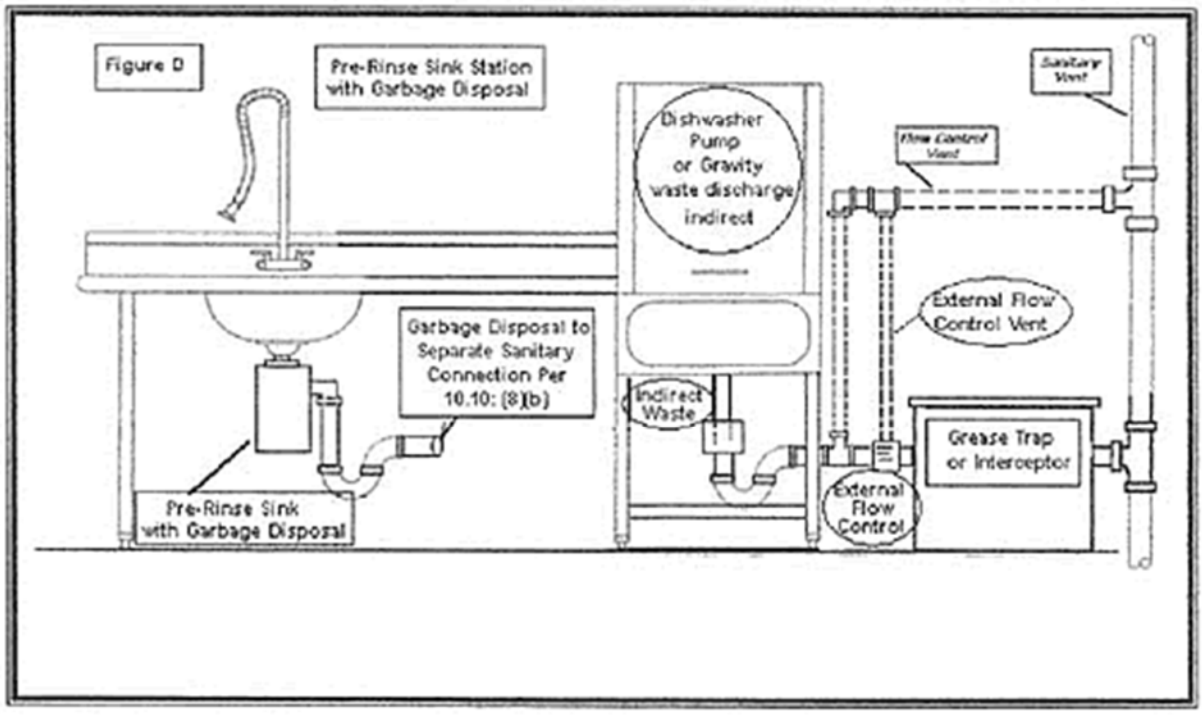


Figure D
Pre-Rinse Sink Station with Garbage Disposal
Dishwasher Pump or Gravity waste discharge indirect
Sanitary Vent
Flow Control Vent
External Flow Control Vent
Garbage Disposal to Separate Sanitary Connection Per 10.10: (8)(b)
Indirect Waste
Grease Trap or Interceptor
External Flow Control
Pre-Rinse Sink with Garbage Disposal

APPENDIX I: INSPECTION CHECKLIST AND CLEANING LOG

Grease Trap/Interceptor Cleaning & Disposal Log

Business Name:

Address: **Phone:**

Grease Trap/Interceptor Make, Model & Size:

Recommended Cleaning Frequency *(check one)*: ☐ Daily ☐ Weekly ☐ Bi-Weekly ☐ Monthly ☐ Other:

Service Company Used:

Date	Cleaned By	Witnessed By	Gallons Removed	Grease Disposal Site	Remarks

I certify that this document was prepared under my direction or supervision. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete.
All records of cleaning and inspections shall be retained at the establishment for at least 3 years in accordance with the City's FOG Ordinance.
Failure to provide copies of cleaning and inspection logs during an inspection by the Inspectional Services may result in fines or other penalties.

Name: **Title:**

Signature: **Date:**

Grease Trap/Interceptor Inspection Log

Business Name:

Address: **Phone:**

Grease Trap/Interceptor Make, Model & Size:

Service Company Used *(if applicable)***:**

Date	Inspected By	Remarks

I certify that this document was prepared under my direction or supervision. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete.
All records of cleaning and inspections shall be retained at the establishment for at least 3 years in accordance with the City's FOG Ordinance.
Failure to provide copies of cleaning and inspection logs during an inspection by the Inspectional Services may result in fines or other penalties.

Name: **Title:**

Signature: **Date:**

Food Establishment FOG Control Inspection Checklist

Inspector Name:	**Date:**
Establishment:	**Time Started:**
Address:	**Time Completed:**
Contact Name:	**Phone:**

Item No.	Item Description	Compliance Status[1]	Comments
1	Grease trap/interceptor maintenance log is available and up to date.		
2	Installed FOG control device(s) is(are) accessible with no obstructions that would prevent inspection and maintenance activities.		
3	The establishment has implemented a staff training program to ensure BMPs for FOG control are followed.		
4	“No Grease” signs are posted in appropriate locations.		
5	The establishment recycles waste cooking oil when possible and can provide records of this.		
6	Food waste is disposed of by recycling or solid waste removal and is not discharged to the grease trap(s)/interceptor.		
7	Grease trap(s)/interceptor is(are) cleaned regularly. Note and record frequency of cleaning.		
8	Grease trap/interceptor cleaning frequency is documented on a maintenance log.		
9	Outdoor grease and oil storage containers are covered and do not show signs of overflowing.		
10	Grease and oil storage containers are protected from discharge to storm drains.		
11	Absorbent pads or other spill control materials are onsite to clean up any spills or leakages that could reach floor or storm drains.		
12	Exhaust system filters are cleaned regularly, which is documented by cleaning records. Note and record frequency of cleaning.		

[1]Use the following codes for Compliance Status:

“C” = Compliance with the item
“V” = Violation of the item (provide explanation in Notes)
“N/A” = Not applicable (provide explanation in Notes)
“N/C” = Not checked (provide explanation in Notes)

Food Establishment FOG Control Inspection Checklist

Notes:

Inspector Signature: _____ **Date:** _____

APPENDIX J: GREASE HAULER APPLICATION

APPLICATION FOR GREASE HAULER REGISTRATION

GENERAL INFORMATION

Name of Business _____ Date _____

Business Address _____

Type of Business (corporation, sole proprietor, partnership, etc.) _____

Mailing Address (if different) _____

Company E-mail Address _____

Business Telephone # _____ Fax # _____

Emergency/After Hours Business Telephone # _____

Designated Signatory Authority of the Business (person who is able to legally act on behalf of the business):

Name _____ Title _____

Address _____

Has the business been issued any penalties and/or fines relating to hauling waste? ☐ Yes ☐ No

List all permits currently held by the business associated with conducting grease removal, hauling, and/or disposal:

Permit Type	Permit No.	Issuing Agency

SERVICE INFORMATION

Indicate service(s) provided by the business involving grease removal, hauling, and/or disposal:

☐ Pump Grease Traps/Interceptors ☐ Pump Septic Tanks

☐ Pump Portable Toilets ☐ Provide Grease Waste Treatment at a Separate Facility

☐ Provide Additional Plumbing Services ☐ Other (specify): _____

List all vehicles that will be used to pump or transport grease waste:

Vehicle Make/Model	License No.	Vehicle Capacity (gallons)

List all sites that are currently being used or anticipated to be used for disposal of grease waste:

1. Disposal Facility Name _____

   Disposal Facility Address _____

   Owner of Disposal Facility _____ Telephone # _____

2. Disposal Facility Name _____

   Disposal Facility Address _____

   Owner of Disposal Facility _____ Telephone # _____

(Attach additional sheets if necessary)

APPLICATION FOR GREASE HAULER REGISTRATION

INSURANCE INFORMATION

Attach proof of an insurance policy or surety bond demonstrating that the business has the ability to respond to damages resulting from grease removal, hauling, and/or disposal.

RECORDKEEPING

Registered Grease Haulers are required to maintain written documentation of maintenance and grease removal activities conducted at food service establishments (FSEs) in accordance with Chapter 8.32 of the Revised Ordinances. Records shall be provided to the FSE Owner and available for inspection by the City at the City's request for at least 3 years from the date of service.

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application, and affirm that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

Signature _____ Date _____

Print Name _____ Title _____

TO BE COMPLETED BY THE WATER & SEWER DEPARTMENT:

Signature of Director _____ Date _____

APPENDIX K: ANNUAL FOG PERMIT APPLICATION AND SUPPORTING DOCUMENTS

FATS, OILS AND GREASE (FOG) PERMIT APPLICATION

ESTABLISHMENT INFORMATION

Name of Establishment _____ Date _____

Business Address _____ Telephone # _____

Mailing Address (if different) _____

Name & Title of Applicant _____ Telephone # _____

Address of Applicant _____

E-mail _____

Name of Owner (if different from applicant) _____

FACILITY OPERATIONAL CHARACTERISTICS

Type of Establishment: *(check all that apply)*

- ☐ Retail (_____ sq. ft.)
- ☐ Food Services (_____ seats)
- ☐ Food Services – Institution (_____ meals/day)
- ☐ Caterer
- ☐ Other: _____
- ☐ Food Delivery
- ☐ Food Services – Takeout
- ☐ Residential Kitchen
- ☐ Limited Retail Prepackage

Days and Hours of Operation: _____

Indicate the quantity of each item that you currently have or will install in your facility:

____ Grill	____ Deep Fryer	____ 3 Bay Pot Sink
____ Oven	____ Floor Drains	____ 2 Bay Pot Sink
____ Dishwasher	____ Hand Sink	____ Single Bay Sink
____ Pre Rinse Sink	____ Tilt Kettle/Crock Pot	____ Other Equipment
____ Mop Sink	____ Garbage Disposal	

DISCHARGE INFORMATION

Fill in the following information about your current wastewater flow.

_____ Maximum Daily Flow (gpd)	_____ Average Daily Flow (gpd)
_____ No. of hours per day discharge occurs	_____ Start Date of Discharge

BEST MANAGEMENT PRACTICES

Identify the Best Management Practices (BMPs) to be implemented by the permittee to minimize the adverse environmental effects of activities authorized under this permit.

- ☐ Train kitchen staff.
- ☐ Clean grease traps/interceptors routinely.
- ☐ Witness all grease trap cleaning and maintenance.
- ☐ Dispose of used oil through a registered grease hauler.
- ☐ Recycle waste cooking oil.
- ☐ Keep maintenance logs.
- ☐ Post “No Grease” signs.
- ☐ Dry wipe pots, pans, and dishware prior to dishwashing.
- ☐ Cover outdoor grease & oil storage containers.
- ☐ Use absorbent pads or other material to clean up spilled fats, oils and grease.
- ☐ Other: _____

_____

FATS, OILS AND GREASE (FOG) PERMIT APPLICATION

GREASE TRAP/INTERCEPTOR INFORMATION

ID #	Location	Make, Model & Size	New or Existing	Recommended Cleaning Frequency

SUPPORTING DOCUMENTATION CHECKLIST

☐ Copies of Employee Training Records

☐ Copies of Grease Trap/Interceptor Cleaning & Disposal Logs

☐ Copies of Hauling Receipts/Waste Disposal Manifests

GREASE RECYCLER INFORMATION

Name of Recycler _____ Phone _____

REGISTERED GREASE DISPOSAL / HAULER INFORMATION

Name of Hauler _____ Phone _____

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application, and affirm that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

I certify that upon issuance of the permit, this establishment's operation and its resultant wastewater discharge will achieve consistent compliance with the City of Quincy's FOG Ordinance and applicable federal and local wastewater discharge requirements.

Signature of Applicant _____ Date _____

TO BE COMPLETED BY THE WATER & SEWER DEPARTMENT:

Signature of Director _____ Date _____

CITY OF QUINCY

CERTIFICATE TO DISCHARGE

FOG PERMIT

THIS CERTIFIES THAT _____ has permission to discharge wastewater at _____ into the public sewer system in accordance the requirements of the City's Sewer Use Ordinance.

Provided that the person accepting this permit shall in every respect conform to the terms of the application on file in this office, and to the provisions of the statutes and by-laws relating to the discharge of Fats, Oils and Grease (FOG) in the City of Quincy, this permit will remain valid until the expiration date listed below. Compliance with these regulations does not relieve the abovementioned establishment of its obligations to comply with all applicable pretreatment regulations, standards, or requirements under City, State and Federal laws, including those that may become effective during the term of this permit.

FOG PERMIT NO. _____

WATER SEWER AND DRAIN DIRECTOR _____

DATE OF APPROVAL _____

EXPIRATION DATE _____

Any violations of the FOG Ordinance shall be cause to void this permit.

April 1, 2020

Re: Annual Food Establishment Permit Renewal Notification

Dear Food Establishment Owner:

This letter is to inform you that your annual Food Establishment Permit will expire on **May 31, 2020**. A renewal application must be submitted to this Department prior to the expiration date listed above to maintain a valid Food Establishment Permit. Under Massachusetts regulations 105 CMR 590 – State Sanitary Code Chapter X: Minimum Sanitation Standards for Food Establishments and the Federal *1999 Food Code*, **"a person may not operate a food establishment without a valid permit to operate issued by the regulatory authority."**

Renewal Fees	
Food Establishment Permit	$125.00
Late Fee Added to Applications Received after May 31	$100.00
Milk Permit	$20.00

All applicants for an annual Food Establishment Permit must:

- Have on staff at least one certified food protection manager in each affected establishment who has been issued a **Massachusetts certificate of allergen awareness training** per 105 CMR 590.009(G).
- Pay all outstanding taxes, water, sewer fines and fees to the City and obtain **signoffs from the Tax Collector, Water Sewer and Drain Department, and Inspectional Services Department**.
- When required, possess a **Certificate in Food Handling Practice** from an accredited program approved by this Department. *Note: Failure to do so will result your license not being renewed and/or suspension of your license to operate a food establishment. If this occurs, your food establishment will have to close until such time as you are in compliance with State regulations.*

VERY IMPORTANT: YOU MUST BRING IN YOUR <u>ORIGINAL CERTIFICATE IN FOOD HANDLING PRACTICE</u> WHEN YOU COME IN TO APPLY FOR YOUR PERMIT.

- Have grease trap(s) or interceptor installed to control the discharge of fats, oils, and grease (FOG) into the public sewer system and **obtain a FOG Permit from the Water Sewer and Drain Department** per the City's Sewer Use Ordinance.

Payment must be submitted via check or money order made payable to City of Quincy. If you have any questions, please contact this Department between 8:30-10:00 AM or 1:00-2:00 PM at (617) 376-1279 or (617) 376-1281.

Sincerely,

William DeCarli
Food Inspector

Paul Anderson
Food Inspector

PROCEDURES FOR FOOD SERVICES/ RETAIL FOOD ESTABLISHMENTS

Certificates/Permits Required:

1. Business Certificate (City Clerk's Office)
2. Certificate of Inspection (Building Department)
3. Food Services/Retail Food License/Milk License if applicable (Inspectional Services - Food Division)
4. Common Victualler License (Food Services & Catering Only)
5. Food Safety Course Certification
6. Allergy Awareness Certificate
7. Fats, Oils, and Grease (FOG) Permit (Water Sewer and Drain Department)

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8. Food Truck Requirements

    i. Transient Vendor Application (City Clerk's Office)
    ii. Signed Fats, Oils, and Grease Management Plan (Water Sewer and Drain Department)
    iii. Must have truck inspected by the Fire Department
    iv. Must apply for a State Hawkers and Peddlers License

CHANGE OF OWNERSHIP

If a change of ownership occurs in an existing business, that business shall remain closed until proper permits to re-open under new ownership have been approved by the Quincy Health Department. Failure to comply will result in immediate closure and a hearing before the Health Department, before any license being granted to open.

Do not mail applications. Sign offs are required from the Tax Collector, Water Sewer and Drain Department, and Inspectional Services Department before any permit may be granted.

APPENDIX L: TEMPORARY FOG CONTROL PLAN

FATS, OILS AND GREASE (FOG) MANAGEMENT PLAN FOR TEMPORARY FOOD SERVICE ESTABLISHMENTS AND EVENTS

FOG refers collectively to the fats, oils, and grease found in kitchens and commercial food service establishments (FSEs). FOG that enters the public sewer system can build up until it completely blocks sewer pipes, causing raw sewage to back up inside buildings or overflow outside into streets and streams.

The City has implemented a FOG Program to reduce FOG discharge into the public sewer system and eliminate sanitary sewer overflows (SSOs) that can threaten public health. Per City Ordinance Chapter 8.32, "**all temporary food service establishments and events in the City of Lawrence that use, generate, or store FOG shall have a written FOG management plan before the Board of Health will issue a temporary food service permit."**

The purpose of this FOG Management Plan is to implement practices that will reduce the discharge of FOG entering the City of Lawrence's sewer system. Temporary food service permits shall not be issued until this Plan has been reviewed and signed by the Water & Sewer Commissioner.

ESTABLISHMENT INFORMATION

Name of Establishment _____ Date _____

Mailing Address _____ Telephone # _____

Name & Title of Applicant _____ Telephone # _____

Address of Applicant _____

E-mail _____

Name of Owner (if different from applicant) _____

Event Location Name _____

Event Coordinator _____ Telephone # _____

FACILITY OPERATIONAL CHARACTERISTICS

Type of Food Served _____

Days and Hours of Operation: _____

DISCHARGE INFORMATION

Fill in the following information about your current wastewater flow.

_____ Maximum Daily Flow (gpd) _____ Average Daily Flow (gpd)

_____ No. of hours per day discharge occurs _____ Start Date of Discharge

BEST MANAGEMENT PRACTICES

Identify the Best Management Practices (BMPs) to be implemented by the permittee to minimize the adverse environmental effects of activities authorized under this permit. More information on BMPs is available in the FOG Program Manual on the Water & Sewer Department website: www.cityoflawrence.com/water

☐ Train kitchen staff.

☐ Clean grease traps/interceptors routinely.

☐ Witness all grease trap cleaning and maintenance.

☐ Dispose of used oil through a licensed grease hauler.

☐ Recycle waste cooking oil.

☐ Post "No Grease" signs.

☐ Dry wipe pots, pans, and dishware prior to dishwashing.

☐ Cover outdoor grease & oil storage containers.

☐ Use absorbent pads or other material to clean up spilled fats, oils and grease.

☐ Other: _____

_____

FATS, OILS AND GREASE (FOG) MANAGEMENT PLAN FOR TEMPORARY FOOD SERVICE ESTABLISHMENTS AND EVENTS

GREASE TRAP INFORMATION

ID #	Location	Make, Model & Size

FOG DISPOSAL PROCEDURES

Describe specific procedures for collecting and disposing of fats, oils and grease from your temporary FSE or event:

GREASE RECYCLER INFORMATION

Name of Recycler _____ Phone _____

REGISTERED GREASE DISPOSAL / HAULER INFORMATION

Name of Hauler _____ Phone _____

A list of approved haulers is available on the Water & Sewer Department website: www.cityoflawrence.com/water

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application, and affirm that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

Signature of Applicant _____ Date _____

Please be aware that per Chapter 8.32 of the Revised Ordinances, the City of Lawrence has the right to inspect the facility to ensure all requirements of the FOG Ordinance are being met.

TO BE COMPLETED BY THE WATER & SEWER DEPARTMENT:

Signature of Commissioner _____ Date _____

WOODARD &CURRAN

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

APPENDIX I: PRIVATE SEWER PROCEDURES AND CONTACT LIST

City of Quincy, MA Private Sewer System Contacts

Customer ID	Company Name	Contact Name	Address	City	State	ZIP Code	Contact Title	Phone Number	Email Address
CU0001	Twin Rivers Technology	Melvin Mullins	780 Washington Street	Quincy	MA	02169	Manager	(617) 775-4166	
CU0002	Shipyard Quirk	Steve Clermont	97 East Howard Street	Quincy	MA	02169	Facility Manager	(781) 964-0068	sclermont@quirkcars.com
CU0003	Shipyard Cashman	Chase Davis	549 South Street	Quincy	MA	02169	Facility Manager	(781) 789-9379	cdavis@jaycashman.com
CU0004	Shipyard Bay State Fertilizer MWRA	Carl Pawloski	551 South Street	Quincy	MA	02169	Manager	(617) 773-4293	
CU0005	The Atrium At Faxon Woods	AnnMarie Jaworski	2003 Falls Blvd	Quincy	MA	02169	Exectutive Director	617-471-5595	Ajaworski@benchmarkquality.com
CU0006	Highlands At Faxon Woods	Joelice Roman	2001 Falls Blvd	Quincy	MA	02169	Communtiy Manager	(339) 235-5217	faxonwoodsapts@northfield.com
CU0007	The Falls Condominiums		200 Falls Blvd	Quincy	MA	02169			
CU0008	Wallmart	Manager	301 Falls Blvd	Quincy	MA	02169	Manager	(617) 745-4390	
CU0009	Roache Brothers Supermarket	Shift Manager	101 Falls Blvd	Quincy	MA	02169	Manager	(617) 471-0500	
CU0010	Alister Quincy Apartments	Chelsea Jones	500 Falls Blvd	Quincy	MA	02169	Communtiy Manger	(844) 280-0366	alisterquincy.com
CU0011	Presidential Estates Apartments	Bruce Morisson	1020 Southern Atrtery	Quincy	MA	02169	Asst. Property Manger	(617) 479-3555	bmorisson@presidentialestates.net
CU0012	Faxon Common Apartments	Chris Carlton	1037 Southern Artery	Quincy	MA	02169	Maintenance Manager	(617) 595-6930	ccarlton@jmcandco.com
CU0013	1000 Southern Artery Senior Apt	Brian Donald	1000 Southern Artery	Quincy	MA	02169	Maintenance Manager	617-481-7946	bdonald@mmsgroup.com
CU0014	Predidents Plaza	Stephen T. Herlihy	219 Quincy Ave	Quincy	MA	02169	Real Estate Manager	617-872-8382	sth@herlihy-co.com
CU0015	Sprague Energy Corp.	Stephen Cipullo	728 Southern Artery	Quincy	MA	02169	Manager Terminal Ops	(617) 306-6101	scipullo@spragueenergy.com
CU0016	MBTA all Stations and Properties	Steve Sullivan	Numerous Citywide	Quincy	MA	02169	Plumbing Foreman	(617) 594-7330	sasullivan@mbta.com
CU0017	Granite Links Golf Course	Robert Silva	100 Quarry Hills Drive	Quincy	MA	02169	Facilities Director	(617) 689-1900	rsilva@granitelinks.com
CU0018	DCR - Wollaston Beach/ Blue Hills	State Conrol Number- Emergency	251 Causeway St 9th Floor	Boston	MA	02114	Supervisor	(508) 820-1428	mass.parks@mass.gov
CU0019	Quincy Housing Athority	James Marathas	80 Clay Street	Quincy	MA	02170	Exectutive Director	(617) 847-4350	jmarathas@quincyha.com
CU0020	Marina Bay (partial)	Hassan Haydar	500 Victory Road	Quincy	MA	02171	Property Manager	(617) 847-6338	hhaydar154@aol.com
CU0021	Marina Bay (MBA-)	Mark Raymondi	1000 Marina Drive	Quincy	MA	02171	Property Manager	(617) 828-7288	markmarinapoint@comcast.net
CU0022	State Street Bank	CBRE Watch Engineer	1 Heritage Drive	Quincy	MA	02171	Watch Engineer	(617) 985-8337	UGLServicesWatchEngineer@statestreet.co
CU0023	Marriott Boston Quincy	Terry Vanslette	1000 Marriott Drive	Quincy	MA	02169	Director	508-5798269	Terry .Vanslette@Marriott.com

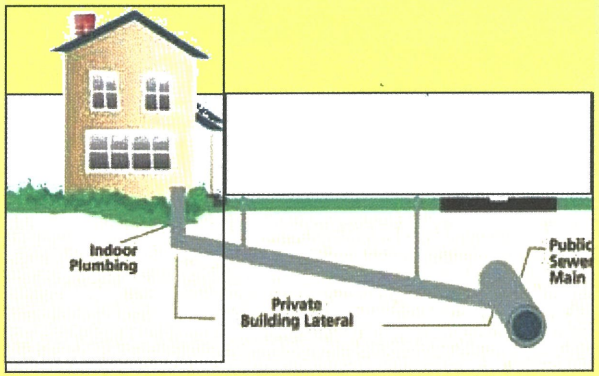
APPENDIX J: OFF-ROAD SEWER EASEMENT PROGRAM

APPENDIX K: PUBLIC EDUCATION TOOLS

FOG PUBLIC EDUCATION TOOLS

With increasingly more rigorous enforcement of environmental regulations by the MA Department of Environmental Protection, it is important for customers to understand that the condition of the sewer lateral is the responsibility of the property owner.

Sewer laterals are the pipes that connect the indoor plumbing to the municipal sewer line. Sewer laterals must allow waste water to flow from the property to the sewer main so that there are no leaks over the distance travelled. Leaks can contaminate both storm drains and water bodies adjacent to the owner's property.



Department of Public Works
55 Sea St.
Quincy MA 02169
617-376-1959
www.quincyma.gov/government/PWD/

ADDITIONAL QUESTIONS?

For more information, contact:
Quincy Department of Public Works - (617) 376-1959

Quincy Sewer Use Ordinance
https://www.municode.com/library/ma/quincy/codes/code_of_ordinances?nodeId=TIT13PUSE_CH13.08SESESY

MWRA Wastewater/FOG Regulations
http://www.mwra.state.ma.us/03sewer/html/trac.htm

其他問題？

欲了解更多訊息，請聯繫
昆士市工務局 — (617) 376-1959

昆士市污水使用條例
https://www.municode.com/library/ma/quincy/codes/code_of_ordinances?nodeId=TIT13PUSE_CH13.08SESESY

麻省水務資源管理局污水部/ 油脂管理條例
http://www.mwra.state.ma.us/03sewer/html/trac.htm

24-Hour

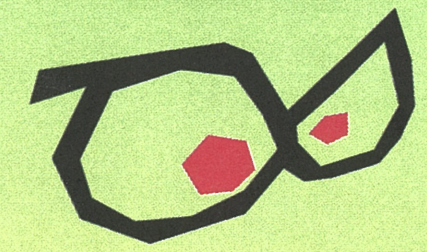
Water, Sewer and Drain

Emergency Hot Line

617-376-1910

DPW

F.O.G.



Fats, Oils and Grease can ruin your day

City of Quincy
Thomas P. Koch, Mayor
Department of Public Works
Daniel G. Raymondi, Commissioner

CLEAN WATER IS EVERYBODY'S BUSINESS

F.O.G. can also ruin your home...

Fats, oils and grease can enter your sewer and drain system when disposed through your sinks, toilets, dishwashers, and garbage disposal.

F.O.G. sticks to the inside of pipes and hardens. It then builds up and reduces the flow capacity of the pipe which greatly increases the chance of unsanitary sewer back-ups directly into your home. The consequence of F.O.G. in your plumbing can also be very costly. Replacement of plumbing, floors, carpet and walls can cost tens of thousands of dollars. In addition, noxious sewer fumes and human waste in your home may pose serious health risks to your entire family.

A Sewer Operations technician removes debris from a sewer.

And that's just the tip of the iceberg.

The City of Quincy and Water and Sewer rate payers spend tens of thousands of dollars each year repairing and replacing expensive equipment underground and in our sanitary sewer pump houses as a result of F.O.G. being improperly deposited into sewer drains.

It's against the law.

According to the Sewer Use Rules & Regulations you can be fined up to $1,000 for the first offense. In addition, users may be required to install monitoring equipment as determined by the Department of Public Works and/or the Health Department.

Sewer Operations technicians prepare a closed circuit TV camera to look for prohibited discharges such as fats, oils and grease.

DO's and DON'TS

Do not dump fats, oils or grease into any drain or toilet.

Do not place greasy food waste into a garbage disposal.

Do not use chemicals that claim to dissolve grease in drains.

Do collect waste fats, oils and grease in a container until they harden, then throw them in the trash.

Do dry wipe pots, pans and work areas prior to washing.

✓	✗
進行清洗前，先將鍋、鏟及工作間地方抹乾	不要把餘糧直接倒入任何排水道
食物渣滓需直接扔進垃圾桶棄掉	不要把油膩的食物殘渣倒進水槽垃圾處理器
廢油需收集作回收或由合資格的油脂運送商處置	不要將廢油或油膩物直接掉入任何排水道
水槽內的清潔墊需要清洗	清洗地墊的水不得流入排水道
油隔及截油器需保持乾淨	不要使用聲稱能溶解水渠內油脂的化學品

City of Quincy, Massachusetts

THOMAS P. KOCH, MAYOR

DEPARTMENT OF HEALTH
440 East Squantum Street
Quincy, MA 02171

Marli Caslli, MPH, MS
Commissioner of Public Health

Telephone: (617) 376-1275
Fax: (617) 376-1271

Dear Business Owner,

I would like to thank you for all of your hard work during these difficult times and it is a pleasure to work with you during this relicensing period. Over the past few months, we have tried to make it an easier process for inspections and payments. Starting this year, all inspections will be done on an iPad and the report will be emailed to the manager you have designated on your application. We have also implemented online payments on the health department website. We hope that this will make it easier to pay for licenses that are due May 31st and for you to keep a personal record of inspection reports.

Going forward, I would like to remind you some of the expectations that we have. It is important to always keep your kitchens clean and to monitor the dumpster to prevent overflow or odors. Your business this year will be **required** to keep a logbook on site that shows monthly rodent control inspections from a licensed pest control company and a separate logbook for grease traps if your business is using one. The grease trap logbook must show each invoice and report from the company that serviced it. Grease traps must be serviced every 3 months. Failure to do so may result in a hearing with the Health Commissioner, fines per violation, or review of your application in front of the license board.

Sincerely,

_____
Marli Caslli, MPH, MS
Commissioner of Public Health

CONSTRUCTION PUBLIC EDUCATION TOOLS

CITY OF QUINCY, MASSACHUSETTS
Department of Public Works

THOMAS P. KOCH
Mayor

ALFRED J. GRAZIOSO
Commissioner

City of Quincy
DPW

City of Quincy Sewer System Evaluations in Your Area

Dear Neighbor,

This notice is to inform you that the City of Quincy will be extending its scheduled sewer system investigations this year throughout the City, including your neighborhood, to facilitate faster implementation of any required improvements. This investigation work is part of Mayor Koch's annual initiative to improve infrastructure City-wide and is supported by the City Council's votes to approve the Annual DPW Budget and to utilize a local MWRA financial support program. The current project schedule and several Frequently Asked Questions (FAQs) are on the reverse of this letter for your review.

These investigations are part of the Department of Public Works sewer collection system study that utilizes closed-circuit television (CCTV) to assess inflow/infiltration to the City's sewer system and identify pipeline defects. Equipment and trucks for City vendor named Next Level Environmental will be seen in your neighborhood beginning in November. Work will be performed during normal working hours (7:00AM-4:00PM). Work will not be completed during the Thanksgiving Holiday.

We do not anticipate disruptions to your sewer service during these evaluations. Contractors will not need to enter your home and no direct interaction with you will be required. As is always the case, if you have any concerns about someone in your neighborhood or on your property, please contact the Quincy Police Department 617-479-1212 or 911.

The City has contracted with Woodard & Curran to work with Next Level Environmental to complete these inspections. If you have any questions about the project, please contact:

Dustin Briere with Woodard & Curran at: Phone: 781-613-0426
Email: dbriere@woodardcurran.com

You may also wish to contact Peter Hoyt at the DPW Office at 55 Sea Street by calling 617-376-1912.

Sincerely yours,

Alfred J Grazioso
Commissioner of Public Works

55 Sea Street, Quincy, MA 02169-2572
Telephone: (617) 376-1959 FAX: (617) 376-1969

Frequently Asked Questions (FAQs)

Q: Why is the City doing these evaluations?

A: The City's infrastructure is aging and the sewer system is critical to public health and safety. It collects wastewater for our residents and businesses. Keeping this infrastructure in good working condition is critical to our quality of life. The City systematically evaluates the sewer system to inform capital planning for improvements. These improvements help to maintain the sewer system and help protect our waterways and beaches.

Q: How will my property be impacted by these evaluations?

A: All work is performed from City owned streets, sidewalks or easements.

Q: Will there be night time work? What is the schedule?

A: The contracted sub-contractor Next Level Environmental will be seen during normal working hours (7:00AM-4:00PM) performing CCTV inspections. CCTV is planned beginning the week of Monday November 23, 2020. No work will be completed during the Thanksgiving Holiday.

Q: Who will be coming to the neighborhood?

A: Woodard & Curran and their sub-contractor (Next Level Environmental) will be on site during these evaluations. All contractors will be clearly identified by their attire and vehicles. As is always the case, if you have any concerns about someone in your neighborhood or on your property, please contact the Quincy Police Department 617-479-1212 or 911.

Q: How are these evaluations being paid for?

A: The project is funded by an MWRA Grant/Loan under the MWRA Infiltration/Inflow Local Financial Assistance Program.

Q: Who do I call with problems or in the case of an emergency?

A: Please see the front of this letter for contact information of the onsite representatives that will be working on these evaluations. *The Quincy Sewer Department's Emergency line can be reached at 617-376-1910.* As always, in case of an emergency, please immediately call the Quincy Police Department at 617-479-1212 or 911.

55 Sea Street, Quincy, MA 02169-2572
Telephone: (617) 376-1959 FAX: (617) 376-1969

CITY OF QUINCY, MASSACHUSETTS
Department of Public Works

THOMAS P. KOCH
Mayor

ALFRED J. GRAZIOSO
Commissioner

City of Quincy
DPW

City of Quincy Sewer System Evaluations in Your Area

Dear Neighbor,

I am writing to inform you that the City of Quincy will be performing sewer system investigations this year throughout the City, including your neighborhood. This work is part of Mayor Koch's annual initiative to improve infrastructure City-wide, and is supported by the City Council's votes to approve the Annual DPW Budget and to utilize a local MWRA financial support program. The current project schedule and several Frequently Asked Questions (FAQs) are on the reverse of this letter for your review.

The investigations will provide information about the sewer system using a range of methods, including camera work and flow measurements. Additional notification and information will be provided about some investigation methods ahead of conducting that work. You will see subcontractor vehicles and crews accessing sewer infrastructure through manholes in your area.

We do not anticipate any major disruption to your sewer service during these evaluations. As is always the case, if you have any concerns about someone in your neighborhood or on your property, please contact the Quincy Police Department 617-479-1212 or 911.

The City has contracted with Woodard & Curran to work with various sub-contractors to complete these inspections. They are scheduled to evaluate sewer infrastructure throughout the City between March and August 2020. If you have any questions about the project, please contact:

Dustin Briere with Woodard & Curran at: Phone: 781-613-0426
Email: dbriere@woodardcurran.com

You may also wish to contact Jeff Vradenburg at the DPW Office at 55 Sea Street by calling 617-376-1051.

Sincerely yours,

Alfred J Grazioso
Commissioner of Public Works

55 Sea Street, Quincy, MA 02169-2572
Telephone: (617) 376-1959 FAX: (617) 376-1969

Frequently Asked Questions (FAQs)

Q: Why is the City doing these evaluations?

A: The City's infrastructure is aging and the sewer system is critical to public health and safety. It collects wastewater for our residents and businesses. Keeping this infrastructure in good working condition is critical to our quality of life. The City systematically evaluates the sewer system to inform capital planning for improvements. These improvements help to maintain the sewer system and help protect our waterways and beaches.

Q: How will my property be impacted by these evaluations?

A: All work is performed from City owned streets, sidewalks or easements.

Q: Will there be Night time work? What is the schedule?

A: All work will typically be conducted during daytime hours Monday through Friday. The work will progress over the next several months. You will be informed in advance of any night time evaluations.

Q: Who will be coming to the neighborhood?

A: Woodard & Curran and their sub-contractors will be on site during these evaluations. All contractors will be clearly identified by their attire and vehicles. As is always the case, if you have any concerns about someone in your neighborhood or on your property, please contact the Quincy Police Department 617-479-1212 or 911.

Q: How are these evaluations being paid for?

A: The project is funded by an MWRA Grant/Loan under the MWRA Infiltration/Inflow Local Financial Assistance Program.

Q: Who do I call with problems or in the case of an emergency?

A: Please see the front of this letter for contact information of the onsite representatives that will be working on these evaluations. *The Quincy Sewer Department's Emergency line can be reached at 617-376-1910.* As always, in case of an emergency, please immediately call the Quincy Police Department at 617-479-1212 or 911.

55 Sea Street, Quincy, MA 02169-2572
Telephone: (617) 376-1959 FAX: (617) 376-1969

CITY OF QUINCY, MASSACHUSETTS
Department of Public Works

THOMAS P. KOCH
Mayor

ALFRED J. GRAZIOSO
Commissioner

City of Quincy
DPW

Improvements to City of Quincy Sanitary Sewer System in Your Area

Dear Neighbor,

As part of Mayor Koch's annual initiative to improve infrastructure City-wide, and as supported by your City Council's votes to approve the annual DPW Budget and to utilize a local MWRA financial support program, your neighborhood is being considered for improvements.

This letter to notify you that field crews consisting of City Department of Public Works (DPW) staff and its consultants will be in your neighborhood to collect information relevant to potential replacement of the sewer main.

Equipment and trucks for City vendor named S.W. Cole will be seen beginning the week of Monday, May 3rd, 2021 during normal working hours performing geotechnical investigations on Quincy Shore Drive. Everyone will be wearing attire identifying their company and will carry identification on hand.

We do not anticipate disruptions to your sewer service during these evaluations. Contractors will not need to enter your home and no direct interaction with you will be required. As is always the case, if you have any concerns about someone in your neighborhood or on your property, please contact the Quincy Police Department 617-479-1212 or 911.

The City has contracted with Woodard & Curran to work with S.W. Cole to complete these investigations. If you have any questions about the project, please contact:

Olivia Lafond with Woodard & Curran at: Phone: 781-613-0287
Email: olafond@woodardcurran.com

The City's representative, Mark Vialpando can be contacted at the DPW Office at 55 Sea Street by calling 617-376-1959.

Sincerely yours,

Alfred J Grazioso
Commissioner of Public Works

55 Sea Street, Quincy, MA 02169-2572
Telephone: (617) 376-1959 FAX: (617) 376-1969

Frequently Asked Questions (FAQs)

Q: Why is the City doing the Project?

A: The City's infrastructure is aging and the sanitary sewer system contributes to public health and safety. Keeping this infrastructure in good working condition is critical to our quality of life. The City systematically replaces portions of the sewer system based upon its age or poor performance.

Q: How will my property be impacted by the Project?

A: You will see field crews in your neighborhood, during this data collection phase of the project. As the project moves forward, we will work with you to ensure you are fully informed as to the potential impacts and timing of work in your neighborhood.

Q: Will there be night time work? What is the schedule?

A: No. All work will be conducted during daytime hours Monday through Friday. Data collection efforts will begin immediately and continue through May.

Q: Who will be coming to the neighborhood?

A: Over the next few months, you will see City staff and engineers in your neighborhood obtaining information for the design of the project. As is always the case, if you have any concerns about someone in your neighborhood or on your property, please contact the Quincy Police Department 617-479-1212 or 911.

Q: How is the project being paid for?

A: Primary funding for this project is provided through a MWRA Inflow/Infiltration Local Financial Assistance Program.

Q: Who do I call with problems or in the case of an emergency?

A: The Quincy DPW Office can be reached at 617-376-1959. As always, in case of a true emergency, please immediately call the Quincy Police Department at 617-479-1212 or 911.

55 Sea Street, Quincy, MA 02169-2572
Telephone: (617) 376-1959 FAX: (617) 376-1969

CITY OF QUINCY, MASSACHUSETTS
Department of Public Works

THOMAS P. KOCH
Mayor

ALFRED J. GRAZIOSO
Commissioner

Improvements to City of Quincy Sewer System in Your Area

Dear Neighbor,

I am writing to inform you that the City of Quincy will be performing over $1.75M in sewer system improvements, a portion of which will be in your neighborhood. As part of Mayor Koch's annual initiative to improve infrastructure City-wide, and as supported by the City Council's votes to utilize Massachusetts Water Resource Authority (MWRA) financial assistance, your neighborhood will benefit. Several Frequently Asked Questions (FAQs) are on the backside of this letter for your review.

The contractor who won the public bid in your area is **National Water Main Cleaning Company (NWMCC)** from Canton, Massachusetts. **They are scheduled to make necessary repairs to sewer infrastructure pipes in your neighborhood now through September 2021**. Materials and equipment may begin to arrive in your neighborhood beginning in June. Once constructions starts, you will be able to access your house but your street may be closed to thru traffic and may include temporary on-street parking restrictions Monday – Friday from 7am – 4pm.

We do not anticipate any major disruption to your sewer service during this project. If needed, NWMCC will notify you 48 hours before any planned service disruptions with an estimated time frame as to when this will occur. NWMCC will not need to enter your home and there will be no required direct social interaction. As is always the case, if you have any concerns about someone in your neighborhood or on your property, please contact the Quincy Police Department 617-479-1212 or 911.

The City has contracted with Woodard & Curran and NWMCC to execute this project, during which, both companies will have representatives available on site daily. If you have any questions about the project, please contact via phone or electronically:

- Zach Ronnow with Woodard & Curran at: (781) 613-0195 & zronnow@woodardcurran.com
- James Fleming with NWMCC at: (617) 590-9222 & jfleming@nwmcc-bos.com
- Jeff Vradenburg with Quincy DPW at: (617) 376-1051 & Jvradenburg@quincyma.gov

Information about the City's COVID-19 responses may be found at www.quincyma.gov

Sincerely yours,

Alfred J Grazioso
Commissioner of Public Works

55 Sea Street, Quincy, MA 02169-2572
Telephone: (617) 376-1959 FAX: (617) 376-1969

Frequently Asked Questions (FAQs)

Q: Why is the City doing the Project?

A: The City's infrastructure is aging and the sewer system is critical to public health and safety. It collects wastewater for our residents and businesses. Keeping this infrastructure in good working condition is critical to our quality of life. The City systematically replaces portions of the sewer system based upon its age or poor performance. In addition to improving sewer performance, this project protects our waterways and beaches.

Q: How is this project being constructed?

A: The repairs to sewer pipes will be made by means of using a trenchless technology that is relatively non-disruptive. You will see construction vehicles and contractor crews accessing sewer infrastructure through manholes. They will be utilizing cured-in-place piping (CIPP) to rehabilitate the pipes, which allows us to line the interior of the pipe without having to excavate the street. While this work is occurring, you will see steam coming out of manholes – this is entirely anticipated and should not be a cause for alarm. You will also see crews along the streets listed above setting up temporary sewer bypass piping to facilitate this project.

Q: How will my property be impacted by the Project?

A: All work is on City owned streets, sidewalks or easements. On a rare occasion grass portions of the front yard may be impacted; however, they will be returned to preconstruction condition.

Q: Will there be Night time work? What is the schedule?

A: All work will typically be conducted during daytime hours Monday through Friday. The work will progress over the next several months. On rare occasions Saturday work or night work may be required due to high day time sewer flows and in areas of heavy day time traffic. You will be informed in advance of any night time construction.

Q: Who will be coming to the neighborhood?

A: NWMCC will be on site during this project. Woodard & Curran representatives will also be on site each day. All contractors will be clearly identified by their attire and vehicles. As is always the case, if you have any concerns about someone in your neighborhood or on your property, please contact the Quincy Police Department 617-479-1212 or 911.

Q: Who do I call with problems or in the case of an emergency?

A: Please see the front of this letter for contact information of the onsite representatives that will be working on this project. *The Quincy Sewer Department's Emergency line can be reached at 617-376-1910.* As always, in case of a true emergency, please immediately call the Quincy Police Department at 617-479-1212 or 911.

National Water Main Cleaning Company of Boston
A Carylon Company
Toll Free - (800) 422-0815

* SPECIAL NOTICE *

This is to inform you that the City of Quincy through National Water Main will be rehabilitating the sewer system in your neighborhood using a method called Cured-in-Place Pipelining. This system will provide a new, joint-less sewer pipe connection for your area that minimizes root and water infiltration problems, improves flow, and provides for a more structurally sound pipe without the need for excavation. To accomplish this, **there will be a temporary disruption of sewer service to your residence or business for a period of approximately __6___ hours.**

This interruption in sewer service will tentatively occur Between_____

You will receive a 48 or a 24-hour pre-notification on the day(s) prior to actually rehabbing the pipe that your home is connected to. This notification is to make you aware of what will be taking place. ***The above date is subject to change.***

During this period your property's sewer service connection will be completely sealed off from the Town's mainline in the street. **Please limit the use of water going down your drains to an absolute minimum and DO NOT USE WASHING MACHINES OR DISWASHERS.** If you must shower, leave the water in the tub until your service has been restored. Any sump pumps connected to the sewer system must be disconnected and/or discharged elsewhere to avoid possible damage to our liner, or backups in your basement. ***Failure to follow these instructions may cause a backup into your property.***

There will be certain areas that will be flagged with no parking. We ask that you please do not park in those areas. A police detail will be on site at all times to direct you to and from your parking spot. You do not need to make any arrangements to leave your vehicle elsewhere.

During certain phases of the operation, you may detect an odor. Odors are most likely to occur in houses or buildings with a faulty, or non-existent trap. In most cases, any odors can be minimized by pouring several gallons of water down your sinks, showers, toilets, etc, and by opening your windows.

If you have any questions or concerns during the course of our installation period; please do not hesitate to ask for the Site Supervisor or Crew Foreman at the job site.

When your service has been restored, you will be promptly notified with another notice.

If you have any questions or concerns regarding this project; please contact any one of the following during business hours, Monday-Friday

General Contractor – National Water Main Cleaning Co
Main Office (781)-828-0863
Superintendent: Henry Boissonneault Jr.
Cell (617) 483-0960

Thank you for your cooperation.

National Water Main
Cleaning Company of Boston
A Carylon Company
Toll Free - (800) 422-0815

* SPECIAL NOTICE *

(24 HOUR PRE-NOTIFICATION)

This is to remind you that the City of Quincy, through National Water Main will be rehabilitating the sewer system in your neighborhood using a method called Cured-in-Place Pipelining. This system will provide a new, joint-less sewer pipe for your area that minimizes root and water infiltration problems, improves flow, and provides for a more structurally sound pipe without the need for excavation. To accomplish this, there will be a temporary disruption of sewer service to your residence or business for a period of approximately 6 hours.

This interruption in sewer service will be:

FROM:___7 AM_____ TO:___5 PM_____ ON:_ _____ THROUGH:_____
TIME TIME DAY/DATE DAY/DATE

During this period your property's sewer service connection will be completely sealed off from the Town's mainline in the street. **Please limit the use of water going down your drains to an absolute minimum and DO NOT USE WASHING MACHINES OR DISWASHERS DURING THE INSTALLATION PROCESS.** If you must shower, bath, or wash hands please leave the water in the tub/sink until your service has been restored.

Any sump pumps connected to the sewer system must be disconnected and/or discharged elsewhere to avoid possible damage to our liner, or backups in your basement. ***Failure to follow these instructions may cause your discharge to backup into your property.***

Due to the configuration of the street in your area the street will be blocked during this work. Please make **alternative parking arrangements** because the street will be blocked tomorrow from 7 am to 4 pm.

During certain phases of the operation, you may detect an odor. Odors are most likely to occur in houses or buildings with dry or non-existent traps. In most cases, any odors can be minimized by pouring several gallons of water down your sinks, showers, toilets, etc.; and by opening your windows.

If you have any questions or concerns during the course of our installation period; please do not hesitate to ask for the Site Supervisor or Crew Foreman at the job site.

When your service has been restored, you will be promptly notified with another notice.

If you have any questions or concerns regarding this project; please contact any one of the following during business hours, Monday-Friday

General Contractor – National Water Main Cleaning Co

Main Office (781)-828-0863
Superintendent: Henry Boissoneault Cell (617) 483-0960

Thank you for your cooperation.

National Water Main Cleaning Company of Boston
A Carylon Company
Toll Free - (800) 422-0815

* SPECIAL NOTICE *
(With-In One Week)

This is to inform you that the City of Quincy, MA will be rehabilitating the sewer Mainline in your neighborhood using a method called Cured-in-Place Pipelining. This system will provide a new, joint-less sewer pipe connection for your area that minimizes root and water infiltration problems, improves flow, and provides for a more structurally sound pipe without the need for excavation. To accomplish this, **there will be a temporary disruption of sewer service to your residence or business for a period of approximately 8 hours.**

This interruption in sewer service will tentatively occur Between _____.

You will receive a 24-hour pre-notification on the day prior to actually rehabbing the pipe that your home is connected to. This notification is to make you aware of what will be taking place. ***The above date is subject to change.***

During this period your property's sewer service connection will be completely sealed off from the Town's mainline in the street. **Please limit the use of water going down your drains to an absolute minimum and DO NOT USE WASHING MACHINES OR DISHWASHERS.** If you must shower, leave the water in the tub until your service has been restored. Any sump pumps connected to the sewer system must be disconnected and/or discharged elsewhere to avoid possible damage to our liner, or backups in your basement. ***Failure to follow these instructions may cause a backup into your property.***

Please do not park on the roadway to allow the crews to complete the sewer rehab process in a timely manner. There will be certain areas that will be flagged with no parking. We ask that you please do not park in those areas. Your vehicle may have to be towed if it is parked where the signs were posted.

During certain phases of the operation, you may detect an odor. Odors are most likely to occur in houses or buildings with a faulty, or non-existent trap. In most cases, any odors can be minimized by pouring several gallons of water down your sinks, showers, toilets, etc, and by opening your windows.

If you have any questions or concerns during the course of our installation period; please do not hesitate to ask for the Site Supervisor or Crew Foreman at the job site.

If you have any questions or concerns regarding this project; please contact any one of the following during business hours, Monday-Friday

General Contractor – National Water Main Cleaning Co
Main Office (781)-828-0863
Superintendent: Henry Boissonneault Jr. Cell (617) 483-0960

Thank you for your cooperation.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