

STONEGATE VILLAGE METROPOLITAN DISTRICT

RULES AND REGULATIONS

Adopted:
December 17, 1986
Amended:
3/16/1994
2/15/1995
1/1/2002

Revised 2018

STONEGATE VILLAGE METROPOLITAN DISTRICT

RULES AND REGULATIONS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
1.0	GENERAL	1-1
1.1	PURPOSE	1-4
1.2	DEFIITIONS	1-3
1.3	TERMS AND ABBREVIATIONS	1-16
1.4	SPERVISION OF THE DISTRICT	1-17
1.5	INTERFERENCE PROHIBITED	1-17
1.6	AVAILABILITY OF SERVICE	1-17
1.7	SERVICE OUTSIDE DISTRICT BOUNDARIES	1-18
1.8	INSPECTION AND RIGHT OF ACCESS	1-18
1.9	GENERAL DISCHARGE PROHIBITIONS	1-18
1.10	WATER RESTRICTIONS	1-19
2.0	ADMINISTRATION	2-1
2.1	DISTRICT WORK	2-1
2.2	SERVICE PERMITS	2-1
2.3	CONDITIONS FOR GRANTING PERMITS	2-1
2.4	REVIEW AND OBSERVATION FEES DEPOSIT	2-3
2.5	REVOCAION OF PERMIT	2-3
2.6	CHANGE OF OWNERSHIP OF EXISTING SERVICE LINES	2-3
2.7	ABANDONMENT OF SERVICE LINES	2-4
2.8	HEARING PROCEDURES	2-4
2.9	REBATE AGREEMENTS	2-5

3.0	WATER DISTRIBUTION AND IRRIGATION SYSTEMS	3-1
3.1	BUILDING SERVICE LINES	3-1
3.2	SERVICE LINES RESPONSIBILITY	3-1
3.3	SERVICE METERING	3-2
3.4	GENERAL SERVICE LINE REGULATIONS	3-3
3.5	SERVICE THROUGH FIRE HYDRANTS	3-4
3.6	TURN OFF SERVICE	3-4
3.7	UNAUTHORIZED CONNECTIONS	3-4
3.8	UNAUTHORIZED TAMPERING WITH SYSTEMS	3-4
3.9	WATER DISTRIBUTION SYSTEM	3-5
3.10	IRRIGATION SYSTEM – RECLAIMED WATER	3-6
4.0	SANITARY COLLECTION SYSTEM	4-1
4.1	BUILDING SERVICE LINES	4-1
4.2	SERVICE LINES RESPONSIBILITY	4-1
4.3	GENERAL SERVICE LINE REGULATIONS	4-2
4.4	PUBLIC SEWER CONSTRUCTION	4-3
4.5	WASTEWATER DISCHARGERS	4-3
4.6	GREASE, OIL AND SAND INTERCEPTORS	4-3
4.7	LIFT STATIONS AND FORCE MAINS	4-4
5.0	INDUSTRIAL USER AND PRETREATMENT REQUIREMENTS	5-1
5.1	PRETREATMENT REQUIREMENTS	5-1
5.2	PERMIT APPLICATION CONTENTS	5-1
5.3	EXISTING INDUSTRIAL USER PERMIT APPLICATION	5-2
5.4	NEW APPLICATION FOR TYPE OR VOLUME CHANGES	5-4
5.5	SURVEY OF EXISTING INDUSTRIAL USERS	5-4

5.6	DENIAL OF INDUSTRIAL PERMIT	5-4
5.7	PERMIT MAY BE CONDITIONAL	5-4
5.8	PERMIT CONTENTS	5-5
5.9	ISSUANCE OF INDUSTRIAL PERMIT	5-6
5.10	PERMIT DURATION	5-7
5.11	PERMIT MODIFICATIONS	5-7
5.12	PERMIT TRANSFER	5-8
5.13	DILUTION PROHIBITION	5-8
5.14	MONITORING	5-8
5.15	SAMPLING AND ANALYSIS	5-8
5.16	REPORTING REQUIREMENTS	5-10
5.17	RECORDS	5-11
5.18	ACCIDENTAL DISCHARGES	5-11
5.19	VARIANCES	5-12
5.20	PRETREATMENT	5-12
5.21	GREASE, OIL AND SAND INTERCEPTORS	5-12
5.22	DISCHARGE LIMITATIONS	5-13
5.23	VIOLATION NOTIFICATION	5-14
5.24	EMPLOYEE TRAINING	5-15
5.25	FALSIFYING INFORMATION	5-15
5.26	BYPASS	5-15
5.27	UPSET PROVISIONS	5-16
5.28	SPILL PREVENTION AND SLUG CONTROL PLANS	5-17
5.29	TRADE SECRETS	5-18

6.0	USE REGULATIONS	6-1
6.1	EXCESSIVE DISCHARGE PROHIBITED	6-1
6.2	PROHIBITIVE DISCHARGE STANDARDS	6-2
6.2	SPECIFIC POLLUTANT LIMITATIONS	6-4
7.0	ENFORCEMENT	7-1
7.1	REVOCAION OF ALL SERVICES	7-1
7.2	REVOCAION OF PERMIT	7-1
7.3	NOTICE OF VIOLATION	7-2
7.4	ADMINISTRATIVE ORDERS	7-2
7.5	CONSENT ORDERS	7-2
7.6	SHOW CAUSE HEARING	7-3
7.7	COMPLIANCE ORDER	7-3
7.8	CEASE AND DESIST ORDERS	7-3
7.9	EMERGENCY SUSPENSIONS	7-3
7.10	ADMINISTRATIVE FINES	7-4
7.11	ADMINISTRATIVE APPEAL PROCEDURE	7-4
7.12	CIVIL LIABILITY	7-5
7.13	LEGAL AND INJUNCTIVE RELIEF	7-5
7.14	CIVIL LIABILITY FOR EXPENSES AND FINES	7-5
7.15	CRIMINAL VIOLATION	7-6
7.16	SERVICE	7-6
7.17	REMEDIES CUMULATIVE	7-6
7.18	PUBLIC NOTIFICATION OF NONCOMPLIANT INDUSTRIAL USERS	7-6
7.19	TERMINATION OF PERMIT OF NONCOMPLIANT INDUSTRIAL USERS	7-6
7.20	WASTEWATER DISCHARGE VIOLATION	7-7

7.21	GREASE, SAND AND OIL INTERCEPTORS: ENFORCEMENT	7-8
8.0	FEE STRUCTURE	8-1
8.1	PERMISSIBLE FEES AND CHARGES	8-1
8.2	DETERMINATION OF USER RATES AND ANNUAL ADJUSTMENT	8-2
8.3	CLASSIFICATION OF USERS	8-2
8.4	SERVICE CHARGES	8-3
8.5	WASTEWATER STRENGTH OR INDUSTRIAL SURCHARGE	8-4
8.6	WASTEWATER STRENGTH SCHEDULE	8-6
8.7	SURCHARGE FOR LIFT STATIONS	8-7
8.8	PAYMENT OF SERVICE CHARGES	8-7
8.9	UNPAID CHARGES	8-7
8.10	MISCELLANEOUS COSTS AND EXPENSES INDEMNIFICATION	8-8
8.11	LIABILITY FOR PAYMENT	8-8
8.12	CONTRACTOR RESPONSIBILITIES	8-8
8.13	UNAUTHORIZED COLLECTION OF PENALTIES	8-8
8.14	TURN-OFF FEE	8-9
8.15	PENALTY FOR "UNAUTHORIZED TURN-ON"	8-9
8.16	CHANGE IN USE OR SQUARE FOOTAGE	8-9
8.17	AUTHORIZATION TO COLLECT FEES AND CHARGES	8-9

APPENDIX A: FEES AND CHARGES

APPENDIX B: PARKS AND RECREATION

APPENDIX C: SERVICE PLAN

SECTION 1 GENERAL

1.1 PURPOSE

1.1.1 Scope: Except where revised, these regulations shall be treated and considered as the continuing and comprehensive regulations governing the operations and functions of the Stonegate Village Metropolitan District, and shall, where revised, supersede all previous regulations of the District.

1.1.2 Purpose: The purpose of these rules and regulations is to provide for the administration, operation and protection of all streets, parks, recreation, and other facilities or systems that are owned or operated by the District; provided, however, that the District has limited resources available to it for the purpose of monitoring the effect of and/or enforcing these rules and regulations, and nothing herein shall be deemed or construed as an assumption on the part of the District of any duty or obligation to police its properties, or the use thereof by any person. The Board expects the residents of the District, customers, and other users of District property to exercise normal care and to utilize common sense in the use and enjoyment thereof, but undertakes no responsibility for the actions of such persons or for the results of such actions.

It is necessary for the health, safety and general welfare of the residents of the District to regulate the treatment and distribution of irrigation and potable water, and the collection and treatment of wastewater to provide for maximum public benefit. This regulation sets forth uniform requirements for water (irrigation and potable) users, and direct and indirect contributors into the wastewater collection and treatment system. This regulation enables the District to comply with all State and Federal laws applicable to the treatment of potable water, treatment of irrigation water, and treatment of wastes and discharge of clean and safe water.

1.1.3 Policy: The rules and regulations hereinafter set forth will serve the public in securing the health, safety, prosperity, security, and general welfare of the inhabitants of the District. They are intended and have been adopted to:

1.1.3.1 Preserve the District's property, vegetation, signs, markers, statues, buildings and grounds, and any other structures;

1.1.3.2 Restrict and limit the use of the District's buildings and property as to time, manner and permitted activities;

1.1.3.3 Prohibit activities or conduct within the District facilities or on District property which may be expected to interfere with the use and enjoyment of such places by others or which may constitute a general nuisance;

1.1.3.4 Maintain necessary sanitation, health and safety measures;

1.1.3.5 Regulate camping, picnicking, public meetings and assemblages, and other group usage of the District's property, including the place, time and manner in which such activities are permitted;

- 1.1.3.6 Regulate the use of vehicles as to time, place and manner;
- 1.1.3.7 Control and limit fires and designate the places where fires are permitted;
- 1.1.3.8 Prevent the introduction of pollutants into the water system that would contaminate the potable water distribution system;
- 1.1.3.9 Regulate the use of the irrigation system in order to prevent contamination of the potable water system;
- 1.1.3.10 Prevent the introduction of pollutants into the wastewater system that would interfere with the operation of the system or contaminate the resulting sludge;
- 1.1.3.11 Prevent the introduction of pollutants into the wastewater system which will pass through the system, inadequately treated, into receiving waters or the atmosphere or that would otherwise be incompatible with the system;
- 1.1.3.12 Improve the opportunity to recycle and reclaim wastewater and sludge from the system;
- 1.1.3.13 Provide for equitable distribution among users of the cost of the water and wastewater systems, and;
- 1.1.3.14 Provide for and promote the general health, safety and welfare of the citizens residing within the District boundaries, employees of the District and downstream water users.

All in accordance with and as permitted by the laws of the State of Colorado, including but not limited to Section 18-9-117, and violations of these rules and regulations shall, in addition to any other remedy available to the District or its constituents, be subject to enforcement and punishment under said laws.

- 1.1.4 Adoption and Amendment: These rules and regulations are adopted and subject to later amendment by action of the Board of Directors of the District without notice. *Whether stated in the body of this document or not, amendments declared in the minutes of the meetings of the Board of Directors, or effected by virtue of the entry by the Board into, or the amendment of, any agreement, shall be in full force and effect from the date of such declaration or agreement.* Where these rules and regulations call for a determination by the Board as to their application or operation, or where additional action is necessary; *i.e.*, the adoption of specific controls and guidelines, the Board shall do so by Resolution at a regular or special meeting, and such Resolution shall be made a part of the District's records and by its adoption shall be made a part hereof whether incorporated into the body hereof or not.
- 1.1.5 No Rights Conferred: These rules and regulations are subject to change without notice. Except to the extent that the District is prohibited by Colorado law from enacting retroactive measures, no provisions of these rules and regulations, nor any amendment

thereof by whatever method, shall be interpreted or construed as conferring any right, property or other, upon any individual or entity other than the District itself.

Any dispute as to the interpretation of these rules and regulations or as to their application in any given case shall be submitted to the Board of Directors and their decision shall be final.

The Manager shall have the authority to make interim decisions on matters not expressly covered by these rules and regulations. Such interim decisions shall be binding until ratified or altered by the Board of Directors.

- 1.1.6 Rule Construction: It is intended that these Rules and Regulations shall be liberally construed to effect the general purposes set forth herein, and that each part thereof is separate and distinct from all other parts. No omission or additional material set forth in these Rules and Regulations shall be construed as an alteration, waiver, or deviation from any grant of power, duty, or responsibility or limitation or restriction, imposed or conferred upon the Board by virtue of statutes now existing or subsequently amended, or under any contract or agreement existing between the District and any other governmental entity. Nothing contained herein shall be so construed as to prejudice or affect the right of the District to secure the full benefit and protection of any law which is now enacted or subsequently may be enacted by the Colorado General Assembly pertaining to the governmental or proprietary affairs of the District.
- 1.1.7 Violation of Rules and Regulations: Any District user, customer, or other person violating any of the provisions of these Rules and Regulations shall become liable to the District for expense, loss, or damage occasioned by reason of such violation, and at the discretion of the Manager, may be assessed a fine in an amount set forth in Appendix A.
- 1.1.8 Regional Facilities: It is recognized that the District has entered into a Regional Facilities Construction Agreement and a Maintenance and Operations Agreement with Lincoln Park and Compark. The Agreements, among other things, provide for the operation and maintenance of the domestic water, sewage collection, irrigation and storm sewer, and other systems and facilities within the District in accordance with these rules and regulations. To the extent that these rules and regulations may differ from the terms of those agreements as between the Districts, the terms of the agreements will govern.
- 1.1.9 This regulation provides for the regulation of all District customers and users through the enforcement of general requirements binding on users of the potable water and irrigation systems, direct and indirect contributors to the wastewater system, and to certain non-domestic wastewater system users through the issuance of discharge permits, and, authorizes monitoring and enforcement activities, requires user reporting, and provides for the setting of fees for the equitable distribution of costs resulting from the program established herein.
- 1.1.10 The provisions of this regulation are made for the benefit of the users of the water and wastewater utilities, for the protection of both systems, and to protect the quality of the potable water from the water treatment plant, and the effluent from the wastewater treatment plant. This regulation shall apply to all persons and users of the two systems

whether within or without the District. Any official or employee of the District shall in no case willingly ignore enforcement.

1.2 DEFINITIONS

Unless the context specifically indicates otherwise, the following terms and phrases used in this regulation shall have the following meanings:

1.2.1 General Definitions:

Act shall mean the Federal Water Pollution Control Act, as amended by the Clean Water Act and the Water Quality Act of 1987, 33 U.S.C. 1251, *et seq.*

Active service line shall mean an uncapped private sewer connected to the wastewater system for premises to which water service has been turned on.

Actual Cost shall mean all direct costs applicable to the construction of a given facility, including surveys, preliminary and design engineering, construction, inspection by the Inspector/Engineer, administrative, regulatory agency fees, bond fees, all required easements and/or rights-of-way, plan approval fees, "as-built" drawings, attorneys' fees, any other Inspector/Engineer expense caused by a contractor's failure to work according to schedule and other costs necessary for the completion of a given facility.

Administrative order shall mean an enforcement document that directs a user to undertake or to cease specified activities or to comply with other specific terms contained in the order, including, but not limited to, payment of an administrative fine.

Administrator shall mean the regional administrator of the U.S. Environmental Protection Agency.

Authorized representative of the industrial user may be a principal executive officer of at least the level of vice president if the industrial user is a corporation; a general partner or proprietor if the industrial user is a partnership or proprietorship, respectively; or a duly authorized representative of the individual designated above if such representative is responsible for the overall operation of the facilities from which any discharge originates.

Biochemical oxygen demand (BOD) shall mean the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five (5) days at twenty (20) degrees centigrade, expressed in milligrams per liter.

Board and Board of Directors shall mean the duly elected or appointed Board of Directors of the Stonegate Village Metropolitan District, which acts as the governing body of the District.

Bypass shall mean the intentional diversion of waste streams from any portion of an industrial user's treatment facility.

Categorical standard or national categorical pretreatment standard shall mean a national categorical pretreatment standard or federal regulation containing pollutant discharge limits promulgated by the Environmental Protection Agency under authority of Sections 307(b) and (c) of the Act which applies to a specific category of industrial users.

Cease and desist order shall mean an administrative order that directs a user to cease immediately any violation of the provisions of this regulation or of a permit or administrative order issued hereunder. The order may also temporarily suspend or permanently revoke a discharge permit.

Chemical Oxygen Demand (COD) shall mean the measure the oxygen equivalent of that portion of organic matter in a sample that is susceptible to oxidation by a strong chemical oxidant under laboratory procedures expressed in milligrams per liter.

Combined wastewater shall mean wastewater containing stormwater, infiltration or inflow that is ordinarily prohibited from entering public sanitary sewers in addition to sanitary and industrial wastewater.

Compark shall mean the Compark Business Campus Metropolitan District, formerly known as the E-470 Business Metropolitan District in Douglas County, Colorado.

Compliance date shall mean the final deadline by which a user is required to correct a violation of a prohibition or limitation or to meet a pretreatment standard or requirement as specified in a compliance schedule, industrial discharge permit, or federal, state or local regulation adopting an applicable pretreatment standard.

Compliance order shall mean an administrative order that directs a user to comply with the provisions of this regulation, or of a permit or administrative order issued hereunder, by a specific date. The order may contain a compliance schedule involving specific actions to be completed within specific time periods.

Compliance schedule or schedule of compliance shall mean an enforceable schedule specifying a date or dates by which a user must comply with a pretreatment standard, a pretreatment requirement, or a prohibition or limitation and which may include increments of progress to achieve such compliance.

Composite sample shall mean a representative flow-proportioned sample collected within a twenty-four hour period composed of a minimum of four (4) individual samples collected at two-hour intervals and combined according to flow.

Consent order shall mean an administrative order that is issued pursuant to an agreement between a user and the District, usually containing a compliance schedule and stipulated fines, penalties, or other remedial actions.

Contaminate shall mean to impair the quality of the waters of the state by wastes to a degree which creates a hazard to the environmental and/or public health through poisoning or through the spread of disease.

Contributor shall mean any person who contributes or causes the contribution or discharge of wastewater to the wastewater system, whether through a direct connection to a public sewer or not.

Cooling water shall mean the water discharged from any use as air conditioning, cooling, or refrigeration, or to which the only pollutant added is heat.

Cross-Connection shall mean any physical arrangement whereby the District's Water Distribution System is connected, directly or indirectly with any non-potable or unapproved water supply system, sewer drain, well, conduit, pool, reservoir, plumbing fixture or other device which contains or may contain any contaminated water, liquid or other waste of unknown, non-potable or unsafe quality that could impart a contaminant into the Water Distribution System as a result of backflow.

C.R.S. shall mean the Colorado Revised Statutes.

Customer shall mean any person, company, corporation, or governmental authority or agency authorized to use the Stonegate Village Metropolitan District systems.

Developer shall mean the Person(s) which is the Owner or operator of land and which seeks to have the land served by the District.

DIP shall mean ductile iron pipe.

Discharge shall mean the disposal of any liquid, solid or other material, including, but not limited to, wastewater, holding tank waste, and water by a wastewater system user into the wastewater system of the District. Holding tank waste means any wastewater from holding tanks such as vessels, chemical toilets, campers, trailers, septic tanks, sealed vaults, and vacuum-pump tank trucks.

Discharger shall mean any person who discharges or causes the discharge of wastewater to the wastewater system.

Discharge rate shall mean that daily volume of effluent from a user's plant which has been determined by the District to be representative of the process effluent from the plant. Effluent volume is based upon metered water usage unless in the opinion of the District significant amounts of water are diverted and not discharged into the wastewater system.

Dissolved solids shall mean that concentration of matter in the wastewater that will pass through a forty-five-hundredths micrometer pore size filter.

District shall mean the Stonegate Village Metropolitan District, a Colorado Special District, Douglas County, Colorado.

District Water Service Line shall mean the District-owned water line, designated to carry Potable Water only, extending from the Water Main to the outlet of the meter pit, including the tap on the Water Main, corporation stop, meter and meter pit.

Domestic (sanitary) wastes or wastewater shall mean liquid and water carried wastes from the non-commercial preparation and handling of food or containing human excrement and similar matter from toilets and the sanitary plumbing systems of dwellings, commercial buildings, industrial facilities and institutions.

Engineer shall mean the engineering firm(s), or duly authorized representative(s) (engineer(s)), designated by the District to act on its behalf in all engineering and related matters, including any Inspector(s) employed by the Engineer.

Environmental Protection Agency (EPA) shall mean the United States Environmental Protection Agency or, where appropriate, the term may also be used as a designation for the administrator or other duly authorized official of the agency.

Existing user shall mean an industrial user which is in operation at the time of promulgation of an applicable categorical standard, or at the time of the District's adoption of a new or more stringent pretreatment standard or other pretreatment requirement, or as of the date of January 5, 1982, whichever is later.

Fats, oils and grease (FOG) shall mean any hydrocarbons, fatty acids, soaps, fats, waxes, oils and any other material that is extracted by freon solvent.

Fee Schedule shall mean the schedule of fees, rates and charges on file in the District's office and included in Appendix A, as it may be amended from time to time.

Flow shall mean volume of water (potable or irrigation) or wastewater.

Garbage shall mean solid wastes from the domestic and commercial preparation and handling of food, and from the storage and sale of produce.

Grab sample shall mean a sample that is taken from a waste stream on a one-time basis with no regard to the flow in the waste stream and without consideration of time.

Industrial shall mean of or pertaining to industry, manufacturing, commerce, trade or business, as distinguished from domestic or residential.

Industrial surcharge shall mean another name for wastewater strength surcharge.

Industrial User shall mean any person who introduces pollutants into the District treatment works from any non-domestic source regulated under the Act, state law, or local ordinance.

Industrial wastes or wastewater shall mean the liquid and water carried wastes from the industrial processes or discharged from industrial plants as distinct from sanitary wastewater, including wastewater from pretreatment facilities and polluted cooling water.

Inspector shall mean the Manager, Engineer, agent, officer or employee of the District or other Person so designated by the Manager to perform inspections pursuant to these Rules and Regulations.

Interference shall mean any discharge which alone or in conjunction with a discharger or discharges from other sources both 1) inhibits or disrupts the District treatment works and any of its process or operations, or its sludge use or disposal; and 2) therefore is a cause of a violation of any requirement of the District's treatment works NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal.

Irrigation Main shall mean a District-owned irrigation pipeline, carrying only Irrigation Water that is installed in a public street or easement.

Irrigation Service Line shall mean the privately-owned irrigation line extending from the Irrigation Main to the Customer's irrigation facilities and shall include the tap on the Irrigation Main.

Irrigation System shall mean the system of Irrigation Mains for the distribution of Irrigation Water, owned, maintained and operated by the District.

Irrigation Water shall mean Reuse Water that may or may not be mixed with Raw Water for use in the Irrigation System.

Lincoln Park shall mean the Lincoln Park Metropolitan District, formerly known as the Stonegate Center Metropolitan District in Douglas County, Colorado.

Line(s) shall mean Service Line(s) and Main(s).

Local Facilities shall mean those facilities designed primarily to serve individual developments and includes all facilities necessary to serve the infrastructure of the development. Local Facilities do not include Service Lines.

Main(s) shall mean Water Main(s), Sewer Main(s), Irrigation Main(s) and Storm Water Main(s).

Manager shall mean the District's General Manager or such other person as the Board may from time to time designate as the person responsible for the day-to-day administration of the District's affairs.

Mass limitations shall mean any EPA limit imposed pursuant to Section 307(b) of the Act on discharge of pollutant mass or mass limits deemed necessary by the District to meet NPDES permit requirements.

May is permissive; Shall is mandatory.

National Categorical Pretreatment Standard shall mean any regulation containing pollutant discharge limits promulgated by the EPA in accordance with Section 307(b) and (c) of the Act (33 U.S.C. 1317), which applies to a specific category of Industrial Users.

National Pollutant Discharge Elimination System (NPDES) shall mean the program for issuing, conditioning, and denying permits for the discharge elimination system for discharge of wastewaters to the navigable waters of the United States pursuant to the Act.

Natural (water) outlet shall mean any outlet into a watercourse, pond, ditch, lake or other body of surface or groundwater.

New Source shall mean any building, structure, facility or installation from which there is or may be a discharge of pollutants, the construction of which commenced after the publication of proposed pretreatment standards under Section 307(c) of the Act, which will be applicable to such source if such standards are thereafter promulgated in accordance with that section, provided other conditions found in 40 CFR 403.3(k) are met.

Notice of violation shall mean an official written communication from the District to a user that informs the user that it is in violation of the provisions of this regulation, or of a permit or administrative order issued under this regulation.

NPDES or State Discharger Permit shall mean a permit issued pursuant to Section 402 of the Federal Water Pollution Control Act (33 U.S.C. 1342).

Oversize Costs shall mean a part of the costs of a Main, to be installed within, or for, a development project and for which the District has assigned a transmission function that results in the need for a larger Main than is necessary to serve just the development project. Oversize Costs are the difference between the Actual Costs of the size Main required by the District and the size Main required by the Developer; provided however, it shall be assumed that the Developer requires at least the minimum size Main required under these Rules and Regulations. Engineering and inspection costs are assumed to be proportional to the estimated or experienced construction costs. Incremental costs will be allowed for Line fittings, valves, manholes and other appurtenances, if a size increase is required.

Owner shall mean the fee title holder of record of a property, or the lessee of a piece of property, if the lessee has obtained the right from the fee title holder of record to develop the property.

Park and Recreational Facilities Fee shall mean the monthly fee charged against each residential unit connected to a water meter to pay a portion of the costs of maintaining District streets and open space landscaping, and operating the District recreation center and other recreational facilities.

Pass through shall mean a discharge which exits the treatment works into the waters of the United States in quantities or concentrations, which alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the treatment works' NPDES permit (including an increase in the magnitude or duration of a violation).

Permit shall mean written permission of the Board of Directors or its authorized representative to undertake an activity pursuant to the Rules and Regulations of the District.

Person shall mean any individual, partnership, firm, company, corporation, association, society, group, joint stock company, trust, estate, governmental entity, or any other legal entity or its legal representative, agent or assigns. The masculine gender shall include the feminine, and the singular shall include the plural where indicated by the context.

pH shall mean the intensity of the acid or base condition of a solution expressed as the logarithm (Base 10) of the reciprocal of the hydrogen ion concentration in moles or grams per liter of solution.

Plant investment fee (PIF) shall mean that charge assessed against new users of the water and/or wastewater systems to finance capital improvement of these systems.

Pollutant shall mean dredged spoil, dirt, slurry, solid waste, incinerator residue, sewage, sewage sludge, garbage, trash, chemical waste, biological nutrient, biological material, disease causing agents, radioactive material, heat, wrecked or discarded equipment, rock, sand, or any industrial, municipal or agricultural waste.

Polluted water shall mean water, the quality of which through manmade or man-induced alteration of its chemical, physical, biological or radiological integrity, is less than the effluent criteria in effect or would cause violation of receiving water quality standards and would be benefited by discharge to and treatment by the wastewater system.

Potable Water shall mean water that is suitable for human consumption and complies with all regulatory standards.

Pretreatment or treatment shall mean the reduction of the amount of pollutants, the elimination of pollutants or the alteration of the nature of pollutant properties in wastewater to a less harmful state prior to or in lieu of discharging or otherwise introducing such pollutants into the wastewater utility which may be obtained by physical, chemical or biological processes, or process changes by other means except as prohibited by 40 CFR 403.6(d).

Pretreatment requirement shall mean any substantive or procedural requirement related to pretreatment other than a national categorical pretreatment standard imposed on an industrial user.

Pretreatment Standard or *Standard* shall mean any local, State, or Federal regulation containing pollutant discharge limits. This term includes local limits, prohibitive discharge limits including those promulgated under 40 CFR 403.5, and categorical pretreatment standards.

Private sewer shall mean the same as service line.

Prohibitive discharge standard or national prohibitive discharge standard shall mean any regulations developed under the authority of Section 307(b) of the Act and 40 CFR Section 403.5.

PRV shall mean pressure reducing valve.

Public sewer shall mean the sewer main or other major street sewer in which all owners of abutting properties have equal rights and which is part of the wastewater system subject to the control and maintenance of the District.

PVC shall mean poly vinyl chloride.

Raw Water shall mean water that has not been treated.

Receiving waters shall mean lakes, rivers, streams or other watercourses which receive treated or untreated wastewater.

Regional Facilities shall mean those facilities generally serving the Service Area as a whole.

Reuse Water shall mean raw sewage that has been treated at the wastewater treatment plant to the secondary or tertiary level.

Sanitary sewer shall mean a sewer which carries wastewater and to which storm, surface and ground waters are not intentionally admitted, including the pipe or conduit system and appurtenances for the collection, transportation, pumping and treatment of wastewater. This definition includes the terms public sewer, sewer system, and collection line.

Service Area shall mean all property within the boundaries of the District, as changed from time to time through annexation.

Service line (private sewer) shall mean a sewer commencing at and collecting wastewater from a structure or facility on property served by the wastewater system and ending at the public sewer where the wastewater is contributed to the wastewater system.

Service Lines shall mean any and all Water Service Lines, District Water Service Lines, Sewer Service Lines, Irrigation Service Lines, Storm Water Service Lines and privately-owned lines used for fire protection.

Service Plan shall mean the Service Plan of the District, as approved by Douglas County, and as amended from time to time in accordance with Colorado law.

Severe property damage shall mean substantial physical damage to property or damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

Sewage shall mean wastewater.

Sewer shall mean a pipe or conduit which collects and carries wastewater to a treatment plant.

Shall is mandatory; May is permissive.

Show cause order shall mean an administrative order that directs a user to appear at a hearing held before the District Board for the user to explain its alleged noncompliance with the provisions of this regulation, or of a permit or administrative order issued hereunder, and to show cause why the District should not take enforcement action authorized under this regulation against the user.

Significant Industrial User shall mean the following:

- A. All industrial users subject to categorical pretreatment standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N.
- B. Any other industrial user that discharges an average of twenty-five-thousand (25,000) gallons per day or more of process wastewater to the treatment works (excluding sanitary, non-contact cooling and boiler blowdown wastewater), contributes a process wastestream which makes up five (5) percent or more of the average dry weather hydraulic or organic capacity of the treatment works treatment plant, or is designated as such by the control authority as defined in 40 CFR 403.12(a) on the basis that the industrial user has a reasonable potential for adversely affecting the treatment works operation or for violating any pretreatment standard or requirement (in accordance with 40 CFR 403.8(f)(6)).
- C. Upon a finding that an industrial user meeting the criteria in subparagraph (b) of this section has no reasonable potential for adversely affecting the treatment works operation or for violating any pretreatment standard or requirement, the control authority [as defined in 40 CFR 403.12(a)] may, at any time, on its own initiative or in response to a petition received from an industrial user or treatment works, and in accordance with 40 CFR 403.8(f)(6), determine that such industrial user is not a significant industrial user.

Significant noncompliance shall mean an industrial user who is in violation of one (1) or more of the following criteria:

- A. Chronic violation of wastewater discharge limits, defined as those in which sixty-six (66) percent or more of all of the measurements taken during a six-month period exceed (by any magnitude) the daily maximum limit or the average limit for the same pollutant parameter;
- B. Technical review criteria (TRC) violations, defined as those in which thirty-three (33) percent or more of all of the measurements for each pollutant parameter taken during a six-month period equal or exceed the product of the daily maximum limit or the average limit times the applicable TCC (TRC=1.4 for BOD, TSS, fats, oil and grease and 1.2 for all other pollutants except pH);

- C. Any other violation of a pretreatment effluent limit (daily maximum or longer term average) that the control authority determines has caused, alone or in combination with other discharges, interferes or pass through (including endangering the health of treatment works personnel or the general public);
- D. Any discharge of a pollutant that has caused imminent endangerment to human health, welfare, or to the environment or has resulted in the treatment works exercise of its emergency authority to halt or prevent such a discharge;
- E. Failure to meet, within ninety (90) days after the scheduled date, a compliance schedule milestone contained in a local control mechanism or enforcement order, for starting construction, completing construction or attaining final compliance;
- F. Failure to provide, within thirty (30) days after the due date, required reports such as baseline monitoring reports, ninety-day compliance reports, periodic self-monitoring reports, and reports on compliance with compliance schedules;
- G. Failure to accurately report noncompliance; or
- H. Any other violation or group of violations that the control authority determines will adversely affect the operation or implementation of the local pretreatment program.

Single Family Equivalent or SFE shall mean the demand placed on a system attributable to an average single-family detached residence or the equivalent.

Sludge shall mean the accumulated solids separated from liquids such as water or wastewater during processing or deposits on bottoms of streams or other bodies of water or the precipitate resulting from chemical treatment, coagulation or sedimentation of water or wastewater.

Slug, slug discharge, or slugload shall mean any discharge of a non-routine, episodic nature, including, but not limited to, an accidental spill or a non-customary batch discharge, or the discharge of any pollutant, or combination of pollutants, at a non-customary flow rate or concentration that may cause interference with the wastewater system.

Standard industrial classification (SIC) shall mean a classification pursuant to the most recent edition of the "Standard Industrial Classification Manual" issued by the Executive Office of the President, Office of Management and Budget.

Standard Methods shall mean procedures described in the most recent edition of "Standard Methods for Examination of Water and Wastewater" as published by the American Public Health Association, American Water Works Association, and the Water Pollution Control Federation.

State shall mean the State of Colorado.

Stormwater shall mean any flow occurring during or following any form of natural precipitation and resulting therefrom.

Suspended solids or total suspended solids (TSS) shall mean the total suspended matter expressed in milligrams per liter that floats on the surface of or is suspended in water, wastewater or other liquids and which is removable by laboratory filtering in accordance with procedures set forth in “Standard Methods”.

Systems shall mean the Water Distribution System, the Irrigation System, the Sewer Collection System and the Storm Water System.

Tap Connection shall mean the connection of a water and a sewer service line to the mains or stub-outs, their extension through any exterior wall of the structure they are to serve, and the setting of a water meter in accordance with the District’s design guidelines.

Total organic carbon (TOC) shall mean the analytical measurement of organic carbon using methods specified in 40 CFR, Part 136, as amended.

Toxic shall mean the condition of water which after receiving the discharge of pollutants will cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions or physical deformations in organisms, animals or humans exposed to, inhaling near, ingesting or otherwise assimilating the water.

Toxic pollutant shall mean any pollutant or combination of pollutants listed as toxic in schedule A of this regulation or in regulations promulgated by the administrator under the provisions of Section 307(a) of the Act or of other acts or which create a toxic effect in the receiving waters after discharge thereto.

Unauthorized Connection Fee shall mean a fee that would be due for a piece of property that has an unauthorized connection.

User shall mean any person who discharges, contributes, causes or permits the contribution or discharge of any liquid, solid or other material, including, but not limited to, wastewater into the wastewater system, or who owns, operates, manages or is otherwise responsible for a connection to or consumption from the District potable water or irrigation systems.

Wastewater (sewage) shall mean any liquid or water-carried industrial or sanitary wastes, whether treated or untreated, including polluted cooling water from dwellings, commercial buildings, industrial facilities and institutions that is contributed into or permitted to enter the District’s wastewater system.

Wastewater strength surcharge shall mean the rate system used to charge significant users and industrial users whose wastewater strength is higher than normal domestic strength in the parameters of BOD, COD, TOC or TSS.

Wastewater system shall mean any devices, facilities, structures, equipment or works owned by the District for the purpose of the transmission, storage, treatment, recycling and reclamation of industrial and domestic wastes from within and without the District or necessary to recycle or reuse water at the most economical cost over the estimated life of the system including intercepting sewers, outfall sewers, collection lines, pumping, power and other equipment and their appurtenances and excluding service lines, extensions, improvements, additions, alterations or any remodeling thereof; elements essential to provide a reliable recycled supply such as standby treatment units and clear well facilities; and any works including the land and sites that may be acquired that will be an integral part of the treatment process or is used for ultimate disposal of residues resulting from such treatment.

Watercourse shall mean any natural or artificial channel in which a flow of water occurs either continuously or intermittently.

Water Distribution System shall mean the system of Water Mains for the distribution of Potable Water, owned, maintained and operated by the District.

Water Main shall mean a District-owned water pipeline, carrying Potable Water only, that is installed in a public street or easement.

Water Resource Fee shall mean a one-time fee to be imposed on a per SFE basis on all property that is included in the Service Area in the future, for the development of the District's water resources and necessary infrastructure to transport, treat, and use a raw water source.

Water Service Line shall mean a privately-owned water line, designated to carry Potable Water only, extending from the curb stop, to the Customer's building. The District has responsibility for the Service Line from the Main to the curb stop. The District has responsibility for the water meter.

Waters of the State shall include the following:

- A. Both surfaces and underground waters within the boundaries of the State subject to its jurisdiction, including all ponds, lakes, rivers, streams, public ditches, tax ditches, and public drainage systems within the State, other than those designed and used to collect, convey, or dispose of sanitary sewage;
- B. The flood plain free-flowing waters determined by the Department of Natural Resources on the basis of 100-year flood frequency;
- C. Any other waters specified by State or Federal law.

Winter quarter water use shall mean the average monthly amount of water billed to the user during the preceding months of December, January, and February.

Working Day shall mean any day except Saturday, Sunday and any national, state or local holidays or days of observation during which the office of the District is not open for regular business.

Other capitalized terms located within these Rules and Regulations shall have the meaning set forth herein or in such other authorities as may be referenced herein.

1.3 TERMS AND ABBREVIATIONS

1.3.1 Terms. Shall and will are mandatory; may is permissive. Terms not otherwise defined herein shall have the meanings adopted in the latest edition of “Standard Methods for the Examination of Water and Wastewater,” published by the American Public Health Association, the American Water Works Association, and the Water Pollution Control Federation.

1.3.2 Abbreviations

BOD shall mean biochemical oxygen demand.

CFR shall mean Code of Federal Regulations.

COD shall mean chemical oxygen demand.

CDPHE shall mean Colorado Department of Public Health and Environment

CRS shall mean Colorado Revised Statutes

DIP shall mean Ductile Iron Pipe

EPA (USEPA) shall mean United States Environmental Protection Agency.

FOG shall mean fats, oils and grease.

l shall mean liter.

LEL shall mean lower explosive limit.

mg shall mean milligrams.

mg/l shall mean milligrams per liter.

NPDES shall mean National Pollutant Discharge Elimination System.

PIF shall mean plant investment fee.

PRV shall mean pressure reducing valve.

PVC shall mean poly vinyl chloride.

SIC shall mean standard industrial classification.

TOC shall mean total organic carbon.

TSS shall mean total suspended solids.

1.4 SUPERVISION OF THE DISTRICT

1.4.1 The District shall be responsible for the supervision and management of the water and wastewater systems and all of the utility property and appurtenances. The systems shall be kept properly cleaned and in good working order and repair. The District shall manage the systems for proper compliance with all local, State and Federal regulations for: treatment and distribution of potable water; treatment and distribution of irrigation water; and collection, treatment and discharge of wastewater.

1.4.2 The District may formulate and promulgate rules and regulations consistent with the provisions of this regulation for the administration of the water and wastewater systems and the implementation of this regulation, to become effective upon approval by the District Board.

The District shall have the authority to regulate the volume and flow rate of water delivered from the potable and irrigation water systems, materials, to specify standards for installation of water lines and services and to enforce compliance with Federal and State standards promulgated pursuant to the Act.

The District shall have the authority to regulate the volume and flow rate of discharge to the wastewater system, to establish permissible limits of concentration for various specific substances, materials, waters or wastes that can be accepted into the wastewater system, to establish pretreatment requirements, to specify those substances, materials, waters or wastes that are prohibited from entering the wastewater system, to specify standards for installation of wastewater lines and services and to enforce compliance with Federal and State standards promulgated pursuant to the Act.

1.5 INTERFERENCE PROHIBITED

It is unlawful for any person to break, damage, destroy, uncover, deface or tamper with any property, equipment or appliance constituting a part of the District or to trespass upon the property of the District and interfere in any manner with the operation of the District or the property, equipment, manholes, piping or appliances of the potable water, irrigation water, and wastewater systems including all facilities. No person shall operate a water system valve. No person shall open any public sewer manhole without the permission of the District or deposit any type of refuse into sewer manholes.

1.6 AVAILABILITY OF SERVICE

Service to existing District customers shall take precedence over service to potential new customers until an adequate supply of water and other facilities has been acquired, developed, and made available in and through District facilities and systems. The District does not guarantee a quantity of water to be available to meet demands that may arise in the future. The District reserves the rights, therefore, to impose certain conditions and limitations with respect to the use of facilities and services, and the ability to make new connections when requested.

1.7 SERVICE OUTSIDE DISTRICT BOUNDARIES

Persons outside the District boundaries may apply for connections to the water or wastewater systems for use of excess capacity of the treatment systems, but accrue no vested right to District service by virtue of a connection to the systems. Service will be furnished to premises outside the District boundaries only if the procedures and conditions specified are satisfied. Users outside the District boundaries are subject to all requirements and provisions of this regulation the same as users inside District boundaries and no existing user outside the District boundaries shall alter, change, enlarge or extend in any manner the use for which the connection was made to the systems as of the date of connection or the date of issuance of the revocable permit, whichever is later, without obtaining a permit under this regulation for the altered use and otherwise complying with the provisions of this regulation.

1.8 INSPECTION AND RIGHT OF ACCESS

Representatives of the District, the State, and the EPA, upon showing proper identification, may inspect the equipment and facilities of any user at any reasonable time to ascertain compliance with applicable rules and regulations. Persons or occupants of premises where service is provided shall allow District, State, or EPA personnel ready access to the premises for the purposes of inspection, sampling, records examination and copying, and performance of any of their duties. The District, State, and EPA shall have 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. Where a user has security measures in force which would require proper identification and clearance before entry into its premises, the user shall make the necessary arrangements with the security guards so that, upon presentation of suitable identification, District, State, and EPA personnel will be permitted to enter without delay for the purposes of performing their specific responsibilities. While performing the necessary work on private property, District, State, and EPA personnel shall observe all security and safety rules applicable to the premises as established by the user. Where training or wearing of special protective gear is required, the user shall make necessary arrangements, at its own expense, to enable authorized representatives of the District, State, and EPA to enter and inspect the premises.

1.9 GENERAL DISCHARGE PROHIBITIONS

1.9.1 It is unlawful to discharge into or upon any public highway, watercourse or natural outlet, drain, cesspool, storm or private sewer or private property within the District or in an area under the jurisdiction of the District, any sanitary sewage, industrial wastes or other polluted waters except where suitable treatment has been provided in accordance with subsequent provisions of this regulation and other local, State, and Federal laws

1.9.1.1 Except as authorized, stormwater and all other polluted drainage water shall only be discharged to such stormwater facilities as are specifically authorized for such discharge by the District; provided, however, that in no event shall non-stormwater runoff or water from natural springs be permitted to be discharged into or upon any street, sidewalk or gutter.

- 1.9.1.2 No person shall use any water well within the District as a cesspool or as a place to deposit wastewater or wastes of any kind.
- 1.9.1.3 No user shall contribute or cause to be contributed, directly or indirectly, to any treatment works any pollutant or wastewater that will pass through or cause interference with the operation or performance of the treatment works.
- 1.9.2 No user shall contribute the following substances to any treatment works:
 - 1.9.2.1 Any substance which by reason of its nature or quantity may create a fire or explosion hazard or be injurious to the treatment works or to the operation of the treatment works, including, but not limited to, wastestreams with a closed cup flashpoint of less than 140-degrees Fahrenheit or 60-degrees Centigrade using the test methods specified in 40 CFR 261.21.
 - 1.9.2.2 Any solid or viscous substances which may cause obstruction to the flow or other interference with the operation of the treatment works such as, but not limited to, grease, garbage with particles greater than one-half inch (1/2") in any dimension, or any material which can be disposed of as trash.
 - 1.9.2.3 Any wastewater having a pH less than 5.0 or greater than 10.0 or having any other corrosive property capable of causing damage or hazard to structures, equipment, or personnel of the treatment works.
 - 1.9.2.4 Any substance which may cause a public nuisance, cause hazard to life or prevent entry into the collection system for maintenance and repair.
 - 1.9.2.5 Heat in amounts which will inhibit biological activity in the treatment works resulting in interference, but in no case heat in such quantities that the temperature at the treatment works treatment facility exceeds 40-degrees Centigrade (104-degrees Fahrenheit) unless the District approves alternate temperature limits.
 - 1.9.2.6 Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through.
 - 1.9.2.7 Pollutants which result in the presence of toxic gases, vapors, or fumes within the treatment works in a quantity that may cause acute worker health and safety problems.
 - 1.9.2.8 Any trucked or hauled pollutants, except at discharge points approved by the District prior to transporting.
 - 1.9.2.9 Any pollutant, including oxygen-demanding pollutants released in a discharge at a flow rate and or concentration, (including any slug load), which may cause interference to the treatment works.

1.10 WATER RESTRICTIONS

- 1.10.1 The District shall, at any time, have the power to impose water restrictions on its customers. Such restrictions shall only be implemented subsequent to a Board action.
- 1.10.2 The District reserves the right to restrict or prohibit the use of either raw or treated water for irrigation purposes. Subsequent to and in conjunction with the restriction of water use for irrigation purposes, the District reserves the right to restrict or prohibit the use of irrigation water from the irrigation system. The District further reserves the right to restrict or prohibit the use of potable water for irrigation purposes at private residences.
- 1.10.3 Subsequent to and in conjunction with the imposition of water restrictions, the District reserves the right to restrict or prohibit the use of water for any purpose and in any manner deemed necessary by the District to enable the District to meet water demands for emergency purposes, including but not limited to, fire flows, and to protect the District's water supply.
- 1.10.4 The District reserves the right to implement penalties for the violation of any water restriction imposed.

SECTION 2 ADMINISTRATION

2.1 DISTRICT WORK

No work by District personnel to make a tap connection or to provide other services to customers shall be done on Saturdays, Sundays, or holidays unless permission is granted by the Manager.

No such work shall start until all applicable District fees have been paid.

2.2 SERVICE PERMITS

2.2.1 Any person desiring to make or alter a connection to the water or wastewater systems, or to in any way contribute wastewater to any of the District's wastewater collection or treatment facilities, shall apply in writing to the District for a connection permit prior to commencing any work related to excavating, laying, altering, repairing or connecting any service line. The application shall set forth:

2.2.1.1 The name, address and phone number of the owner of the property to be served;

2.2.1.2 The name, address and phone number of the applicant, if the applicant is a contractor or plumber and not the owner;

2.2.1.3 A legal description of the premises to be served or designation of the lot, block and subdivision number and common street address;

2.2.1.4 The size of the tap;

2.2.1.5 The nature of the wastewater to be discharged and if the premises are to be used for industrial purposes, the applicant shall also apply for an industrial permit.

2.2.1.6 Any other information which the Manager may deem necessary.

2.2.2 If any work requiring a permit is commenced without a permit first being obtained, the District may immediately issue a stop-work order until the proper permit is obtained and the offender shall pay any additional penalties determined and established by the Manager or as set forth in Appendix A. No building permit shall be issued until all application requirements have been met.

2.3 CONDITIONS FOR GRANTING PERMITS

2.3.1 A water and sewer connection permit will be granted if all of the following conditions are met:

- 2.3.1.1 The application is complete and the connection will in all respects conform to the requirements of this regulation.
 - 2.3.1.2 Any main or service line stub to which the connection has been made has been accepted by the District, or if there is no existing service line stub, the work within the public right-of-way will be performed by a licensed and bonded contractor or plumber.
 - 2.3.1.3 The new or altered connection will not adversely impact other persons whose property has been or may be connected with the same public main.
 - 2.3.1.4 If the connection or new connection is to be made through an existing service line, the service line conforms to the requirements of this regulation.
 - 2.3.1.5 Any industrial use of the premises to be served by the connection is conditioned on the application for the industrial discharge permit, or on the basis of the best information available at the time. There will be no industrial use conducted on the premises in violation of any pretreatment requirements and the owner agrees for self and tenants or successors in interest to apply for an industrial discharge permit for any industrial use.
 - 2.3.1.6 All required fees, charges and assessments have been paid or will be paid at the time of issuance of the corresponding building permit. No permit issued under this regulation is valid until all fees, charges and assessments required to be paid in advance have been paid in full.
- 2.3.2 The connection permit shall contain all the information requested in the permit application pertaining to the physical connection as well as the fees, charges and assessments paid for the permit, the user rate category for the proposed use, and any conditions imposed. It shall be signed and dated by the person authorized by the Manager to issue connection permits and by the applicant.
- 2.3.3 Should any information disclosed by the person making the application prove at any time to be false, or should such person omit any information, the District shall have the right to reassess the fees originally charged at the rate current at the time the discovery is made, disconnect the user from District systems, backcharge the property for service fees that may be due or owing, together with interest at the maximum legal rate, and/or charge any additional fee or penalty specified in these Rules and Regulations.
- 2.3.4 Water and sewer service permits shall be issued to an applicant only following a grant of probationary acceptance by the District for all infrastructure and improvements constructed to make the connection, in accordance with the District's *Domestic Water and Sanitary Sewer System Specifications*. A one-year warranty and a Performance and Payment Bond are required to cover the full cost of all constructed improvements connecting to District systems. Eleven (11) months following the grant of probationary acceptance, the District shall conduct a second inspection of the improvements to ensure that all mains, service lines, valves, curb stops, and other improvements are operating properly. The applicant shall be responsible for remedying any defects or

other conditions not in conformance with the *Domestic Water and Sanitary Sewer System Specifications* at that time. In the event the applicant fails to remedy the condition in a timely manner, the District reserves the right to complete the work, as well as cover all costs expended in the completion of the corrections to the improvements, by calling on the applicant's Performance and Payment Bond. In the event the Performance and Payment Bond is inadequate to complete all necessary corrections to the improvements, the District further reserves the right to attach a lien for such costs to the property and/or revoke the service permit.

2.4 REVIEW AND OBSERVATION FEES DEPOSIT

- 2.4.1 All applications for District service connection shall be accompanied by a \$5,000.00 refundable deposit to cover District expenses for review and observation. No application for District water, sewer, or irrigation service shall be considered by the District until the deposit is paid in full.
- 2.4.2 The District shall invoice the applicant monthly for all review and observation expenses incurred. The applicant shall pay all invoiced expenses within 30 days so as to maintain the minimum \$5,000.00 deposit. If the deposited funds fall below \$5,000.00 at any time, the District may suspend all reviews and issue a stop work order for all construction related to District services until such time that the deposit is restored to its full amount.
- 2.4.3 The applicant's deposit shall be returned in full following probationary acceptance of the work and issuance of the service permits.

2.5 REVOCATION OF PERMIT

- 2.5.1 All connections authorized by the permit shall be made strictly in accordance with the terms and conditions of the permit and the requirements of this regulation. The Manager may at any time revoke a permit because of defective work which has not been corrected promptly after the giving of written notice or because of failure to complete the work within the time limit specified in the permit.

Any licensed and bonded contractor or plumber who is the permittee or is under contract to the owner of the connecting premises shall be responsible for any and all work done pursuant to the permit, regardless of whether the work is actually done by the contractor or the authorized representative of such contractor. No further permits will be issued to such contractor or plumber who fails to promptly and satisfactorily remedy defective work after having been notified in writing by the District. No contractor or plumber shall use or allow a right-of-way license to be used in any way for the purpose of procuring a permit for any person other than such licensee or the authorized representative of such licensee.

2.6 CHANGE OF OWNERSHIP OF EXISTING SERVICE LINES

Where there is no change in the nature or quantity of the use of the connection to the water or wastewater systems, a new owner of residential or minor non-residential premises with an existing active service line conforming to the requirements of this regulation may continue the

use of the service line upon notifying the District of the change in ownership and paying any delinquent charges which are a lien against the property. The new owner is liable for all bills for service furnished to the premises after the date of transfer of ownership. In all other cases, the new owner must apply for a new connection permit and any industrial discharge permit that may be required by this regulation.

2.7 ABANDONMENT OF SERVICE LINES

2.7.1 If a property owner desires to permanently disconnect premises from the District water or wastewater systems, or to abandon and replace the existing service line, the service line shall be cut and tightly capped at the public main at the owner's expense. For water mains, the cap shall be sufficiently tight to prevent the infiltration of water into the public main and shall be inspected and approved by the District. For sewer mains, the cap shall be sufficiently tight to prevent the escaping of sewer gas from or the infiltration of water into the public sewer and shall be inspected and approved by the District. The work of excavating and disconnecting the line may be done only after a plan review by the District and the payment of an inspection fee. The District may require the owner to remove the service line and all appurtenances. New services to replace abandoned service will not be approved by the District until the old service lines are permanently disconnected.

If the District receives notice from the County, the local Health Department or CDPHE that a structure has been condemned as not habitable or unsanitary and dangerous to human life, any service line serving such structure will be deemed abandoned and monthly service charges will cease. The owner may be required to permanently disconnect the abandoned line as provided in 2.7.1 above.

2.8 HEARING PROCEDURES

2.8.1 At a hearing the Board shall preside. The customer shall have the right to be represented any other person or by legal counsel. Both the customer or customer's representative and the District shall have the right to present evidence and arguments, to confront or cross-examine any person testifying at the hearing, and to oppose any statement or testimony that may be relied upon in support of or in opposition to the matter at issue. The Board may receive or consider any evidence that has probative value commonly accepted by reasonable and prudent persons in the conduct of their affairs.

The Board shall decide whether clear and convincing evidence exists to alter, amend, or defer the interpretation, application, and/or enforcement of these Rules and Regulations that are the subject of the hearing. The decision shall be based upon evidence presented at the hearing. The burden of showing that grounds exist to alter, amend, or defer the interpretation, application, and/or enforcement of the Rules and Regulations shall be on the customer.

The Board shall make written findings and an order disposing of the issue, and mail a copy thereof to the customer/complainant not later than ten (10) days after the date of the hearing.

2.9 REBATE AGREEMENTS

2.9.1 The District may, in the Board's discretion, enter into rebate agreements with developers, payable from fees collected from future developers or customers, in circumstances where a developer is required to construct or invest in facilities which can partially benefit future development, including oversizing costs. The rebate amounts shall be for actual costs paid. In the case of disputed eligibility of costs, the Board's decision shall be final. No interest shall be allowed in determining rebate amounts.

**SECTION 3
WATER DISTRIBUTION AND IRRIGATION SYSTEMS**

3.1 BUILDING SERVICE LINES

- 3.1.1 Each property shall be served with its own service line, and no connection shall be made extending the service line from one property to another property. Each building shall be served by a separate service line; however, the District may require that a building be served by more than one service line. For purposes of this section, the term “building” means a structure standing alone, excluding fences and covered walkways. A separate accessory structure is a separate building. To qualify as one building, all portions, additions and extensions must be connected by an attachment that is an enclosed part of the building and usable by the occupants.
- 3.1.2 Notwithstanding the provisions of 3.1.1 above, after review and approval of the plans and specifications therefor, the District may authorize the service of more than one building by a single service line, conditioned upon the following criteria:
- 3.1.2.1 If the service is for residential use, only one of the buildings may be used as a residential dwelling;
- 3.1.2.2 If the buildings are served by one service line, the building shall be under single ownership, and no subsequent division of ownership, or subdivision of the property upon which the buildings are located, shall be permitted until separate service lines have been installed to each building.

If the District should determine that the foregoing criteria have been met, a written permit shall be granted, which permit shall contain a listing of the foregoing requirements, shall contain reference to subsection 3.1.1 requiring individual service lines for each building, shall be signed by the District, and shall be duly recorded at the office of the County Clerk and Recorder.

3.2 SERVICE LINES RESPONSIBILITY

- 3.2.1 The owner of the property connecting to the water system is responsible for the installation at the owner’s expense and risk of the service line from the corporation stop at the connection to the main to the structure served, and all other water pipes, machinery, plumbing fixtures and apparatus within the property which may be required to use the potable water.
- 3.2.2 The owner shall be responsible for the cleaning, unstopping, maintenance and repair of the private water and at self-expense shall keep the entire service line as well as all pipes, fixtures, appliances and apparatus on the property tight and in good working order to prevent leakage and infiltration of contaminants into the water system. The owner shall replace at the owner’s expense any portion of the service line which in the opinion of the District has become so damaged or disintegrated as to be unfit for further use or is in such condition as to permit contamination of the public water system. All repairs shall

be completed within thirty days after written notification from the District. If the owner fails or refuses to complete repairs required by the District, the District may cause the repairs to be completed and charge the owner for the cost of such repairs. If the cost of repairs made are not paid by the owner they may be treated as any other delinquent utility charges due the District.

- 3.2.3 The owner shall employ a licensed contractor or plumber to install, repair or alter service lines. The owner shall pay a tap charge to the District for the use of the distribution system and treatment facilities. The owner is responsible for connection of the service line to the main, and shall notify the District when the service line is ready for inspection and connection to the public water system. Streets, sidewalks, parkways and other property disturbed in the course of the work shall be restored by the owner to acceptable District standards after the connection is made.
- 3.2.4 The District is not responsible for any loss or damage caused by negligence or want of care on the part of the owner or the contractor of the owner in installing, maintaining, using, or operating service lines and private water pipes, fixtures, appliances and apparatus. The owner shall hold the District harmless from any loss or damage that may be directly or indirectly occasioned by the installation or malfunction of any service line or private appurtenances. The owner is responsible for the costs of repairing or replacing adjacent sidewalks, curbs, and gutters damaged by the settling of such owner's service line trenches.
- 3.2.5 No alteration of, addition to or disconnection from the private water or any public water or apparatus shall be made without the prior written consent of the District.
- 3.2.6 All users shall comply with the limitations and prohibitions placed on the user of water from their premises by standards set forth or incorporated by reference in this regulation as well as all other requirements by this regulation. No user shall make or permit another person to make a connection to such user's service line which would allow the use of water from property not otherwise served by the utility.

3.3 SERVICE METERING

- 3.3.1 All water service shall be metered by the District. Removal, tampering, or bypassing a meter shall be grounds for immediate termination of water service. No service will be provided to any customer except through a meter. Meters, meter pits, covers, and all connections shall be installed by a licensed contractor or plumber and shall be subject to inspection by District employees or agents.
- 3.3.2 The District shall have the right during the course of any normal business day to enter upon the customer's property for the purpose of reading a water meter.
- 3.3.3 The Customer must maintain unrestricted access to the meter pit. If the District incurs any expenses in exposing or repairing the meter pit, due to the Customer's actions, those costs will be charged to the Customer; and a lien for such charges will attach to the property if payment is not otherwise timely made after demand therefore is received.

3.3.4 Meters shall be sized in conformance with the most current version of the *International Plumbing Code*. The District may allow an applicant for a service permit to use an alternate meter sizing criteria. The District representative must provide written approval of such alternate method before a service permit will be granted.

3.4 GENERAL SERVICE LINE REGULATIONS

3.4.1 The design, number, location, grade and size of all service lines shall be subject to the approval of the District. The size, slope, alignment and materials of construction of a service line and the methods to be used in excavating, placing of the pipe, jointing and testing and backfilling the trench and all other work shall conform to the specifications of the District and the requirements of the building and plumbing codes or other applicable codes, laws, rules and regulations of the Federal, State and local entities. In the event of a conflict, the rules and regulations promulgated by the District shall control. All work concerning the installation or repair of service lines and their appurtenances is subject to inspection by the District.

3.4.2 The connection of the service line to the public water system shall conform to the specifications and regulations of the District and shall only be made by or under the supervision of the District.

3.4.3 Service lines that have not been capped and abandoned may be reused in connection with new buildings or uses only when they are found to pass a pressure test and meet all requirements of this regulation and solely at the risk of the user. However, the District may require the modification or replacement of existing service lines to make them suitable for the proposed use in conformance with District standards.

3.4.4 Each Customer shall be responsible for maintaining the entire length of his Water Service Line and Irrigation Service Line, from the building to the curb stop regardless of whether the Service Line is located on the Customer's property or in public right-of-way. Damage or breaks in the Water Service Line and/or Irrigation Service Line shall be repaired by the Customer within seventy-two (72) hours from the time of notification of such condition by the District, or the Customer's discovery of such condition. If satisfactory progress toward repairing the leak has not been made by the time specified, the District shall have the authority to repair, or have repaired, the Service Lines and shall charge the Customer all resulting costs thereof. The District shall be entitled to place a lien against the property of such Customer or Owner securing the payment of such costs.

3.4.5 The District requires that water and irrigation service lines be equipped with pressure regulating and reducing valves. Pressure regulating valves shall be upstream of all uses. Installation in the meter pit acceptable if the meter pit and piping are designed to permit convenient servicing of the meter, unless the District otherwise finds that placing the pressure regulating valve in the meter pit would be inappropriate given the circumstances. Customers are responsible to maintain suitable pressure reducing valves and the District assumes no liability for injury or damage to property resulting from variation in water pressures provided by the water supply system.

3.4.6 Customers having appliances or requirements depending on the pressure of water in pipes shall provide at their own expense suitable safety or storage appliances to protect themselves and their property against the stoppage of water supply or loss of pressure.

3.5 SERVICE THROUGH FIRE HYDRANTS

Upon application to the District and payment of a refundable deposit of \$2,000.00, users may obtain a District permit for use of hydrant water. Permits shall be issued on an individual basis as approved by the District, and service shall be metered at locations selected by the District. Use of hydrant water shall cease for the duration of any fire within the District. Any damage to the hydrant, meter, or other property of the District shall be paid for by the user. The deposit shall be refunded, less water usage and cost of any unpaid damages, upon return of the District's meter.

In the event a hydrant meter is not available, the Manager may require that the applicant provide a hydrant meter or make other arrangements to verify the quantity of water taken the hydrant.

3.6 TURN OFF SERVICE

Customers desiring a "turn-off" service for purposes of vacation, vacancy of rental property, or any other reason may request that the District disconnect or turn off their service. See Appendix A.

3.7 UNAUTHORIZED CONNECTIONS

It shall be unlawful for any person to connect to the water or irrigation system without the prior payment of all applicable fees, prior approval of the service permit, and adequate supervision and inspection of the taps by District employees or agents. The right to connect to the systems and receive District service may be revoked by the District upon any unauthorized connection to District systems. If the right to connect to District systems is revoked, the would-be customer may re-acquire such rights only by re-applying for a service permit in accordance with the requirements of these Rules and Regulations.

3.8 UNAUTHORIZED TAMPERING WITH SYSTEMS

3.8.1 No unauthorized Person shall uncover, use, alter, disturb or make any connection with, or opening onto the water systems without first obtaining a Permit from the District. Unauthorized uses of the water systems include, but are not limited to, an unauthorized disconnection or re-connection of water distribution or irrigation service, or a tampering or in any way modifying any meter, even though the same may be performed on a privately-owned and maintained service line.

3.8.2 No Person shall maliciously, willfully or negligently, break, damage, destroy, uncover, deface or tamper with any portion of the Systems.

3.8.3 Any Person who shall violate the provisions of this section 3.7 shall be prosecuted to the full extent of Colorado law and the Owner of the property where such violation occurred

shall be assessed an unauthorized tampering/use fee as the same is set forth in Appendix A.

3.9 WATER DISTRIBUTION SYSTEM

The water distribution system has been planned and constructed to provide potable water for conventional domestic and commercial uses and fire protection and irrigation. Any applicant for use of the water distribution system for an industrial or high-demand commercial water supply, which use could be expected to require large quantities of water or unusual demand rates, shall be required to submit demand data as to water use before a Permit will be issued and said Permit may contain use limitations as determined to be necessary by the Board.

3.9.1 Cross-Connection/Dual Supply. Water from the Water Distribution System and water from any other source shall be distributed through systems entirely independent of each other and Cross-Connection between such supplies is prohibited. Where any potential of backflow is present, a protective device or system, acceptable to the District, shall be installed to prevent its occurrence.

3.9.1.1 All automatic lawn sprinkler systems shall be equipped with a vacuum breaker approved by the District.

3.9.1.2 All plumbing shall be designed and installed in conformity with the latest edition of the Manual, *Cross-Connection Control*, published by CDPHE.

3.9.2 Backflow Preventers (Commercial Customers): All backflow preventers and the installation of the same shall be approved by the District. The Customer shall install, operate, test and maintain the backflow preventer as required by the District. The District reserves the right to test or otherwise inspect the installation and operation of the backflow prevention device at any time.

3.9.2.1 The Customer shall provide the District, on an annual basis, with certified test results of the backflow preventer. Tests shall be made on the device at a minimum of one (1) per year or at any time the District reasonably believes that the backflow preventer may not be operating properly.

3.9.2.2 All testing gauges shall be tested and calibrated for accuracy annually, or more often as deemed necessary by the District in the event of questionable readings.

3.9.2.3 Backflow prevention devices are to be installed in a location that is readily accessible so as to facilitate inspection, testing, and maintenance. All backflow prevention devices shall be installed downstream of the water meter.

3.9.2.4 Services of water to any property may be discontinued by the District if unprotected cross connections exist on the property, or if any defect is found in an installed backflow prevention assembly, or if a backflow prevention device has been removed or bypassed. Service shall not be restored until such conditions or defects are remedied to the satisfaction of the District. Discontinuation of water service by the District may be without prior notice if, in the District's sole discretion, such discontinuation is necessary to protect the integrity or safety of the District's systems.

3.10 IRRIGATION SYSTEM (Reclaimed Water)

All Customers receiving a Permit to use the Irrigation System shall abide by the *Regulation 84*, latest version, prepared by CDPHE.

**SECTION 4
SANITARY COLLECTION SYSTEM**

4.1 BUILDING SERVICE LINES

- 4.1.1 Each property shall be served with its own service line, and no connection shall be made extending the service line from one property to another property. Each building shall be served by a separate service line; however, the District may require that a building be served by more than one service line. For purposes of this section, the term “building” means a structure standing alone, excluding fences and covered walkways. A separate accessory structure is a separate building. To qualify as one building, all portions, additions and extensions must be connected by an attachment that is an enclosed part of the building and usable by the occupants.
- 4.1.2 Notwithstanding the provisions of subsection 4.1.1 of this section, after review and approval of the plans and specifications therefor, the District may authorize the service of more than one building by a single service line, conditioned upon the following criteria:
- 4.1.2.1 The combined wastewater flows from the building shall not exceed the capacity of the service line;
- 4.1.2.2 If the service is for residential use, only one of the buildings may be used as a residential dwelling;
- 4.1.2.3 If the buildings are served by one service line, the building shall be under single ownership, and no subsequent division of ownership, or subdivision of the property upon which the buildings are located, shall be permitted until separate service lines have been installed to each building.

If the District should determine that the foregoing criteria have been met, a written permit shall be granted, which permit shall contain a listing of the foregoing requirements, shall contain reference to subsection 4.1.2. of this section requiring individual service lines for each building, shall be signed by the District, and shall be duly recorded at the office of the County Clerk and Recorder.

4.2 SERVICE LINES RESPONSIBILITY

- 4.2.1 The owner of the property connecting to the wastewater system is responsible for the installation at the owner’s expense and risk of the service line from the property line to the structure served and all other wastewater pipes, machinery, plumbing fixtures and apparatus within the property which may be required for collecting, treating and discharging wastewater from the premises.
- 4.2.2 The owner shall be responsible for the cleaning, unstopping, maintenance and repair of the private sewer and at self-expense shall keep the entire service line as well as all pipes, fixtures, appliances and apparatus on the property tight and in good working order to prevent discharge of combined wastewater or prohibited substances into the wastewater system. The owner shall replace at the owner’s expense any portion of the service line which in the opinion of the District has become so damaged or disintegrated

as to be unfit for further use or is in such condition as to permit infiltration into the public wastewater system. All repairs shall be completed within thirty days after written notification from the District. If the owner fails or refuses to complete repairs required by the District, the District may cause the repairs to be completed and charge the owner for the cost of such repairs. If the cost of repairs made are not paid by the owner they may be treated as any other delinquent utility charges due the District.

- 4.2.3 The owner shall employ a licensed contractor or plumber to install, repair or alter service lines. The owner shall pay a tap charge to the District for the use of the collection system and treatment facilities. The owner is responsible for connection of the service line to the main, and shall notify the District when the service line is ready for inspection and connection to the public sewer. Streets, sidewalks, parkways and other property disturbed in the course of the work shall be restored by the owner to acceptable District standards after the connection is made.
- 4.2.4 The District is not responsible for any loss or damage caused by negligence or want of care on the part of the owner or the contractor of the owner in installing, maintaining, using, or operating service lines and private wastewater pipes, fixtures, appliances and apparatus. The owner shall hold the District harmless from any loss or damage that may be directly or indirectly occasioned by the installation or malfunction of any service line or private appurtenances. The owner is responsible for the costs of repairing or replacing adjacent sidewalks, curbs and gutters damaged by the settling of such owner's service line trenches.
- 4.2.5 No alteration of, addition to or disconnection from the private sewer or any public sewer or apparatus shall be made without the prior written consent of the District.
- 4.2.6 All users shall comply with the limitations and prohibitions placed on the discharge of wastewater from their premises by standards set forth or incorporated by reference in this regulation as well as all other requirements by this regulation. No user shall make or permit another person to make a connection to such user's service line which would allow the discharge of wastewater from property not otherwise served by the utility.

4.3 GENERAL SERVICE LINE REGULATIONS

- 4.3.1 The design, number, location, grade and size of all service lines shall be subject to the approval of the District. The size, slope, alignment and materials of construction of a service line and the methods to be used in excavating, placing of the pipe, jointing and testing and backfilling the trench and all other work shall conform to the specifications of the District and the requirements of the building and plumbing codes or other applicable codes, laws, rules and regulations of the Federal, State and local entities. In the event of a conflict, the rules and regulations promulgated by the District shall control. All work concerning the installation or repair of service lines and their appurtenances is subject to inspection by the District.
- 4.3.2 The connection of the service line to the public sewer shall conform to the specifications and regulations of the District and shall only be made by or under the supervision of the District. All such connections shall be made gas tight and watertight.

- 4.3.3 For all structures where the elevation is too low to permit gravity flow of wastewater through the service line to the public sewer, the owner of the property shall install, maintain and operate a lift facility for the discharge of sanitary wastewater from the premises to the public sewer at an approved flow rate. The lift facility shall not be used for the discharge of combined wastewater.
- 4.3.4 Service lines that have not been capped and abandoned may be reused in connection with new buildings or uses only when they are found to pass a pressure test and meet all requirements of this regulation and solely at the risk of the user. However, the District may require the modification or replacement of existing service lines to make them suitable for the proposed use in conformance with District standards.
- 4.3.5 Except as authorized by the District, it is unlawful for any person to connect roof downspouts, exterior foundation drains, areaway drains, sump pumps or other sources of surface runoff or groundwater to a service line or building drain which in turn is connected directly or indirectly to a sanitary sewer.

4.4 PUBLIC SEWER CONSTRUCTION

The extension of public sewers in the course of private development and of public system improvements is governed by the provisions of these rules and regulations.

4.5 WASTEWATER DISCHARGERS

It shall be unlawful for any person to contribute, deposit, discharge or cause to be contributed, deposited, or discharged to any District wastewater collection facility any solid or liquid waste unless through a connection made or supervised and approved by the District. No person shall make any connections with or opening into a public sewer or its appurtenances or alter, repair or reuse an existing private sewer without first having obtained a sewer connection permit for the new or altered use. Changes in the use of a private sewer may also require obtaining an industrial discharge permit as required by this regulation.

4.6 GREASE, OIL AND SAND INTERCEPTORS

Interceptors shall be provided when required, when in the judgment of the District or its Engineer they are necessary for the proper handling of liquid wastes containing grease or solids which may be harmful to, or cause obstruction of, the treatment system, or interfere with the operation of the treatment system.

- 4.6.1 Grease, oil and sand interceptors or other pretreatment facilities shall be provided for laundries, restaurants, service stations, auto repair shops, car washes and other non-residential facilities when, in the opinion of the District, they are necessary for the proper handling of liquid wastes containing FOG in excessive amounts, any flammable wastes, acid or alkaline substances, sand, or other harmful ingredients.
- 4.6.2 All drains from kitchens, food preparation and dishwashing areas shall be connected to the grease interceptor. Fixtures to be connected include, but are not limited to, scullery sinks, pot and pan sinks, dishwashing machines, soup kettles and floor drains located in

areas where grease containing materials may exist. Garbage disposal or garbage grinders will be required to be connected to an approved interceptor.

- 4.6.3 Toilets, urinals and similar fixtures shall not waste through the interceptor. All waste shall enter the interceptor through the inlet pipe only.
- 4.6.4 Upon approval by the District, installation of an interceptor will not be required of facilities that do not cook the food that is served, and/or do not wash equipment or utensils associated with preparation or service of cooked foods. All new commercial building within the District must have an ICPP form completed and on file with the District.
- 4.6.5 Interceptors shall be constructed of impervious materials capable of withstanding abrupt and extreme changes in temperature. They shall be of substantial construction, watertight and equipped with easily removable covers which when bolted in place shall be gas tight and watertight. Interceptors are subject to the requirements of the plumbing code and the District Sanitary Sewer System Specifications.
- 4.6.6 All interceptors shall be maintained by the owner, at self-expense, in continuously efficient operation at all times, and the owner shall keep records of the dates and means of disposal of captured materials which are subject to review by the District. Any removal and hauling of the collected materials not performed by owner or occupant personnel must be performed by currently licensed waste disposal firms. All records of dates and means of disposal of captured material shall be sent to the District upon completion of each disposal event, a minimum of once a year.

4.7 LIFT STATIONS AND FORCE MAINS

- 4.7.1 The District is hereby authorized to cause surveys or engineering studies to be made for the purpose of determining those areas either within or without the District which would require the installation and operation of lift stations to accumulate wastewater at low points or the perimeter of the collection system and pump it to a continuation of the system at a higher elevation or to the treatment works. The lift station areas may include areas outside the District which might by annexation become a part of the District or which might require wastewater services from the District for the purpose of preserving the health and welfare of District residents and adjacent to such areas.
- 4.7.2 When lift station and force mains are required because of development within the lift station area, the cost of their construction is entirely the responsibility of the owners of the property to be served. If only a part of a lift station area is initially developed, the District may require that the developer install lift station and force mains of sufficient capacity to serve the entire area. The District will pay the additional cost mutually agreed to be attributable to the oversizing requirement and collect a front foot or other proportionate charge from property owners or developers connecting to lines served by the lift station. Such assessment shall be paid at the time of issuance of the sewer connection permit.
- 4.7.3 All lift stations shall be planned, designed, and constructed in accordance with applicable State laws. The portion of the wastewater system requiring lift stations and force mains shall be designed whenever possible to permit an eventual connection into a

gravity system with a minimum of additional expense. Where practicable, property owners shall provide easements and construct lines to tie into the gravity system. Where the District deems necessary, the District may require deposits from the property owners requiring the force system to pay for the eventual construction of gravity lines.

- 4.7.4 Lift stations are part of the wastewater system. When lift stations and force mains have been installed pursuant to the requirements of the District and have been inspected and accepted by the District, then they shall become the property of the District. The term lift station as used in this section does not include individual lift facilities as described in section 4.3.3.

**SECTION 5
INDUSTRIAL USER AND PRE-TREATMENT REQUIREMENTS**

5.1 PRETREATMENT REQUIREMENTS

- 5.1.1 Industrial users shall provide necessary wastewater treatment as required to comply with the most stringent standards of this regulation, Federal pretreatment standards as established by 40 CFR Chapter N Subpart I, State standards and permit conditions, and shall achieve compliance with all national categorical pretreatment standards within the time limitations as specified by the Federal pretreatment regulations, and with any other pretreatment standards by applicable deadlines.
- 5.1.2 Any facilities required to pre-treat wastewater shall be provided, operated, and maintained at the industrial user's expense. Detailed plans showing the pretreatment facilities and operating procedures shall be submitted to the District for review, and shall be approved by the District before construction of the facility. The review and approval of plans and operating procedures does not relieve the industrial user from complying with the provisions of this regulation and permit conditions. Any subsequent changes in the pretreatment facilities or method of operation shall be reported to and approved by the District prior to the industrial user's initiation of the changes.
- 5.1.3 If the Federal government issues Federal categorical pretreatment standards for an industrial category that are more stringent than the standards prescribed by this regulation, the Federal standards immediately supersede the standards prescribed by this regulation. The District shall notify all affected users of the applicable reporting requirements.
- 5.1.4 State requirements and limitations on discharges shall apply in any case where they are more stringent than Federal requirements and limitations or those in this regulation.
- 5.1.5 The District may establish limitations or requirements on discharges to the wastewater system more stringent than Federal and State requirements or limitations initially established in this regulation as deemed necessary to comply with objectives of this regulation.

5.2 PERMIT APPLICATION CONTENTS

- 5.2.1 All significant industrial users proposing to connect to or contribute to the treatment works shall obtain an industrial discharge permit for their discharge to the District facilities.
- 5.2.2 At least ninety (90) days prior to any discharge into the wastewater system, all significant industrial users shall complete and file with the District an application for an industrial discharge permit in the form prescribed by the District accompanied by any required filing fee. Other industrial users may be required to complete and file with the District an application for an industrial discharge permit as described in this section if the District has reasonable grounds to believe that the user may be a significant industrial user. In support of the application, the applicant shall submit in units and terms appropriate for evaluation, the following information:

- 5.2.2.1 Name, address, phone number and location (if different from the address) of the industrial facility which will be discharging to the wastewater system;
- 5.2.2.2 Names, addresses and phone numbers of the operator and the owner of the industrial facility;
- 5.2.2.3 List of environmental control permits held by or for the facility;
- 5.2.2.4 Standard Industrial Classification (SIC) number according to the Standard Industrial Classification Manual, Bureau of the Budget, 1972, as amended;
- 5.2.2.5 Site plans, floor plans, mechanical and plumbing plans and details to show all sewers, connections and appurtenances by size, location and elevation, including dual systems for handling sanitary and industrial wastewater when required;
- 5.2.2.6 Description of activities, facilities and plant processes to be conducted on the premises, including each product and byproduct to be produced by type, amount, process or processes and rate of production, type and amount of principle raw materials and catalysts to be used and all materials which are or could be discharged;
- 5.2.2.7 Times and durations of discharge;
- 5.2.2.8 Number and type of employees, and hours of operation of the facility, and processed or actual hours of operation of the pretreatment system;
- 5.2.2.9 Any other information deemed necessary by the District to evaluate the permit application and develop compliance schedules for pretreatment requirements and standards.

The District will evaluate the data furnished by the user and may require additional information. After evaluation and acceptance of the data furnished, the District may issue an Industrial Discharge Permit subject to terms and conditions provided herein.

5.3 EXISTING INDUSTRIAL USER PERMIT APPLICATION

- 5.3.1 An existing industrial user may also be required to apply for an industrial discharge permit if it does not have one for its present use of the wastewater system. An application shall be submitted within forty-five (45) days of notification by the District of the need to do so or at the time of application of a building permit for expansion or remodeling of the premises, or at the time of a material and significant alteration in the quantity or quality of the wastewater being discharged, or upon enactment of an applicable categorical standard, whichever occurs first. A new owner of premises with an existing connection to the wastewater system desiring to introduce or continue an industrial activity shall also be required to contact the District and if required, apply for an industrial discharge permit in accordance with this section.

5.3.2 When required to apply for an industrial discharge permit, an existing industrial user shall provide the following information, in addition to all information required for a wastewater service permit under these Rules and Regulations:

5.3.2.1 The constituents and characteristics of its wastewater as identified and determined by a reliable analytical laboratory. Sampling and analysis shall be performed in accordance with procedures established by the EPA pursuant to Sections 304(g) and 304(h) of the Act and contained in 40 CFR, Part 136, as amended;

5.3.2.2 Average daily and thirty-minute peak wastewater flow rates including daily, monthly and seasonal variations, if any;

5.3.2.3 Where known, the quantity and specific nature of any pollutants in the discharge which are limited by any pretreatment standards, and a statement regarding whether or not the pretreatment standards are being met on a consistent basis, and if not, whether additional operation and maintenance and/or additional pretreatment is required for the user to meet applicable pretreatment standards;

5.3.2.4 A written description and diagram of existing pretreatment equipment, if any, included but not limited to treatment processes, treatment tank dimensions and retention time, chemical supplies, operating personnel and certification, and a plumbing diagram of the treatment system;

5.3.2.5 If additional pretreatment and/or operation and maintenance will be required to meet the pretreatment standards, the shortest proposed compliance schedule by which the user will provide such additional treatment. The completion date in the schedule shall not be later than the compliance date established for the applicable pretreatment standard. The following conditions shall apply to this schedule:

5.3.2.5.1 The schedule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the user to meet the applicable pretreatment standards (e.g., hiring an engineer, completing preliminary plans, completing final plans, executing contract for major components, commencing construction, completing construction, etc.);

5.3.2.5.2 No increment in a. shall exceed nine (9) months;

5.3.2.5.3 Not later than 14 days following each date in the schedule and the final date for compliance, the user shall submit a progress report to the District including, as a minimum, whether or not it complied with the increment of progress to be met on such a date and, if not, the date of which it expects to comply with this increment of progress, the reason for delay, and the steps being taken by the user to return the construction to the schedule

established. In no event shall nine months elapse between such progress reports to the District.

- 5.3.2.5.4 Any such information deemed necessary by the District to evaluate the permit application.

5.4 NEW APPLICATION FOR TYPE OR VOLUME CHANGES

If the type or volume of material from the property for which an industrial discharge permit has been previously granted shall materially and substantially change as determined by the District, the permittee shall make a new application to the District for the altered use of the wastewater system in the same manner and form as required for a new service permit under these Rules and Regulations.

5.5 SURVEY OF EXISTING INDUSTRIAL USERS

The District may require existing non-residential and industrial users who have not applied for an industrial discharge permit to provide information needed to determine their compliance with this regulation. This may be done through the means of a survey or requiring periodic reports and notification when significant changes are proposed in the quantity and characteristics of wastewater from their premises. If it appears at any time from information submitted that the user is or will become a significant industrial user, the user shall be required to apply for an industrial discharge permit.

5.6 DENIAL OF INDUSTRIAL PERMIT

If an application for an industrial permit is denied, the District shall notify the applicant in writing of the denial. The District shall state the grounds for such denial with that degree of specificity which will inform the applicant of the measures or actions which must be taken by the applicant prior to issuance of a permit.

5.7 PERMIT MAY BE CONDITIONAL

5.7.1 Permits shall be expressly subject to all provisions of this regulation and all other applicable regulations, user charges and fees established by the District. Permits may contain without limitation the following conditions or requirements:

- 5.7.1.1 The unit charge or schedule of user charges and fees for the wastewater to be discharged to the system;
- 5.7.1.2 Limits on the average and maximum concentration or mass of wastewater constituents and characteristics;
- 5.7.1.3 Limits on average and maximum rate and time of discharge or requirements for flow regulation and equalization;
- 5.7.1.4 Requirements for installation and maintenance of inspection and sampling facilities;

- 5.7.1.5 Specifications for monitoring programs which may include sampling locations, frequency of sampling, number, types and standards for tests and reporting schedules;
- 5.7.1.6 Requirements for submission of technical reports, or discharge reports and compliance progress reports;
- 5.7.1.7 Compliance schedules;
- 5.7.1.8 Requirements for maintaining and retaining plant records relating to wastewater discharge as specified by the District, and affording the District access thereto;
- 5.7.1.9 Requirements for notification of the District prior to any new introduction of wastewater constituents or any substantial change in the volume or character of the wastewater constituents being introduced into the wastewater system;
- 5.7.1.10 Daily average and daily maximum discharge rates, or other appropriate conditions, when substances subject to limitation and prohibition are proposed or present in the user's wastewater discharge;
- 5.7.1.11 Requirements for immediate notification of all slug discharges and all discharges of pollutants that are specified in 40 CFR 403.5(b);
- 5.7.1.12 Requirements for separate systems to handle sanitary and industrial wastewater, such that in the event of a violation of the prohibitions and limitations set forth in this regulation, the user's industrial wastewater may be eliminated from the discharge to the District without interrupting flow of sanitary wastewater from the premises;
- 5.7.1.13 Other conditions as deemed appropriate by the District.

5.8 PERMIT CONTENTS

- 5.8.1. Permits for industrial pretreatment shall contain, as appropriate, the following:
 - 5.8.1.1 Statement of duration (not greater than 5 years) including issuance and expiration dates;
 - 5.8.1.2 Effluent limitations based on the more stringent of categorical pretreatment standards, local limits as established by this regulation, and local, State and Federal law;
 - 5.8.1.3 General and specific discharge prohibitions as established by this regulation;
 - 5.8.1.4 Requirements to pay fees for the wastewater to be discharged to the treatment works;

- 5.8.1.5 Limitations on the average and maximum rate and time of discharge or requirements for flow regulation and equalization;
- 5.8.1.6 Requirements for installation and maintenance of inspection and sampling facilities;
- 5.8.1.7 Requirements and specifications for monitoring programs including sampling locations, frequency of sampling, number, types and standards for tests and reporting schedule;
- 5.8.1.8 Compliance schedules;
- 5.8.1.9 Requirements for submission of technical reports or certification statements, including any reporting requirements contained in a National Categorical Standard or Pretreatment Requirement;
- 5.8.1.10 Requirements for collecting/retaining and providing access to plant records relating to the user's discharge and for providing entry for sampling and inspection;
- 5.8.1.11 Requirements for notification of any new introduction of wastewater constituents or any substantial change in the volume or character of the wastewater treatment system;
- 5.8.1.12 Requirements for notification of spills, potential problems to the treatment works including slug loadings, upsets or violations;
- 5.8.1.13 Requirements for installation, operation and maintenance of pollution control equipment;
- 5.8.1.14 Requirements to develop and implement spill and slug control plans;
- 5.8.1.15 Other conditions as deemed appropriate by the District to ensure compliance with this regulation, State and Federal pretreatment standards and requirements;
- 5.8.1.16 Statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements;
- 5.8.1.17 Statement of non-transferability;
- 5.8.1.18 Conditions for modification or revocation of permit.

5.9 ISSUANCE OF INDUSTRIAL PERMIT

- 5.9.1. An industrial discharge permit shall be issued to the applicant if all of the following conditions are met:

- 5.9.1.1 The application is complete and the data provided has been evaluated and accepted;
- 5.9.1.2 The service line connection conforms to all requirements of this regulation;
- 5.9.1.3 The accidental discharge program and the pretreatment facilities plan are acceptable to the District;
- 5.9.1.4 The proposed discharge, taking into account and pretreatment required, is or will be in compliance with the prohibitions and limitations in Sections 5.1 through 5.3 of this regulation, would permit the normal and efficient operation of the wastewater treatment system, and would not result in a violation by the District of the terms and conditions of its NPDES permit;
- 5.9.1.5 The industrial user agrees to the pretreatment, reporting and monitoring requirements to be imposed as conditions of the industrial discharge permit.

5.10 PERMIT DURATION

Permits shall be issued for a specified time period, not to exceed five (5) years. If the industrial user desires to renew an existing permit, the industrial user may be required by the District to submit an updated application prior to the renewal of the permit. The user shall apply for permit renewal at least 60 days prior to the expiration of the user's existing permit. The District may modify the terms and conditions of the permit at any time during the term of the permit pursuant to Section 3.3. Any permit may be revoked for failure to comply with the requirements of this regulation.

5.11 PERMIT MODIFICATIONS

- 5.11.1 The terms and conditions of any industrial discharge permit are subject to modification by the District as the limitations, prohibitions or requirements of the regulation are amended or if necessary to meet requirements of the District's NPDES permit or if other just cause exists. Any changes or new conditions to the permit shall include a reasonable time schedule for compliance, as determined by the District.
- 5.11.2 Upon enactment of a categorical standard that is new or more stringent than that imposed by the District, the industrial discharge permit of a user subject to the standard is automatically modified to require compliance with the standard within the time prescribed by the Federal regulation established by the standard. The District shall notify the permit holder in writing of the new requirements, and within thirty (30) days of the notification the affected industrial user shall submit a proposed schedule for compliance. The industrial discharge permit shall be revised to include the new standard, the compliance schedule and the reporting requirements. Where a user, subject to a National Categorical Pretreatment Standard, has not previously submitted an application for an Industrial Pretreatment Contribution Permit as required by this regulation, the user shall apply for such permit within 60 days after the promulgation of the applicable National Categorical Pretreatment Standard. In addition, the user with an existing Industrial Pretreatment Contribution Permit shall submit to the District within 60

days after the promulgation of an applicable Federal Categorical Pretreatment Standard the information required by this regulation.

5.12 PERMIT TRANSFER

Wastewater contribution permits are issued to a specific user for a specific process or operation. A wastewater contribution permit shall not be reassigned, transferred, traded, sublet or sold to a new owner, new user, different premises or a new or changed operation without prior notification to the District and provision of a copy of the existing wastewater contribution permit to the new owner or operator. Any succeeding owner or user shall also comply with the terms and conditions of the existing permit. The District may set additional conditions, such as an application requirement.

5.13 DILUTION PROHIBITION

No industrial user shall increase the use of process water or dilute a discharge as a substitute for adequate treatment to achieve compliance with any pretreatment standard or requirement.

5.14 MONITORING

5.14.1 Whenever required by the District, an industrial user shall provide, operate and maintain at its sole expense monitoring equipment and facilities sufficient to allow safe and proper inspection, sampling and flow measurements of the private sewer or internal drainage systems. The monitoring facility should normally be a monitoring manhole situated on the industrial user's premises, but the District may, when such a location may be impractical or cause undue hardship on the industrial user, allow the facility to be constructed in the public street or sidewalk area and located so it will not be obstructed by landscaping or parked vehicles. Whenever required by the District, a monitoring manhole shall be installed for each separate regulated discharge to the public sewer in accordance with plans and specifications approved by the District. The decision to require installation of monitoring equipment will consider factors such as sampling frequency, parameters, economics and physical limitations of the facility site.

5.14.2 There shall be ample room in or near the monitoring manhole or facility to allow accurate sampling and preparation of samples for analysis, and such manhole shall be safely, easily and independently accessible to authorized representatives of the District during normal business hours. The District may require that the monitoring equipment be installed in an enclosed facility outside of the manhole.

5.14.3 Whether constructed on public or private property, the sampling and monitoring equipment and facilities shall be provided in accordance with the District's requirements and all applicable local construction standards and specifications. Construction shall be completed within sixty (60) days following written notification by the District of the requirement for installation.

5.15 SAMPLING AND ANALYSIS

5.15.1 Each monitoring manhole shall contain a recording and totaling register for measurement of the liquid quantity approved by the District. At the discretion of the

District, the metered water supply to the industrial facility or a measurable adjustment thereof may be used to determine the liquid waste quantity.

- 5.15.2 Samples shall be taken from the required monitoring manhole and properly preserved in accordance with standard methods. Grab samples must be used for pH, cyanide, total phenols, oil and grease, sulfide and volatile organics. For all other pollutants, twenty-four-hour composite samples must be obtained through flow proportional composite sampling techniques where feasible. The District may waive flow proportional composite sampling for any industrial user that demonstrates that such sampling is infeasible. In such cases, samples may be obtained through time proportional composite sampling techniques or through a minimum of four (4) grab samples where the user demonstrates that such sampling method will provide a representative sampling of the effluent being discharged. Grab samples may be required whenever the District determines that composite samples are inappropriate. All measurements, tests and analysis of the characteristics of water and wastes to which reference is made in this regulation shall be determined in accordance with procedures established by the EPA pursuant to Sections 304(g) and 304(h) of the Act and contained in 40 CFR, Part 136, as amended. If no special monitoring facility has been required, the point of sampling shall be as specified by the District.
- 5.15.3 All analyses, including sampling results submitted in support of any application reports, evidence or required by any permit or order shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto or, if 40 CFR Part 136 does not contain sampling or analytical techniques for the pollutant in question, in accordance with procedures approved by the EPA.
- 5.15.4 The District shall determine the measurements and analysis required and the frequency of sampling for each significant industrial user and include them as conditions of the user's industrial discharge permit. The District may impose mass limitations on industrial users that use flow equalization to meet applicable pretreatment standards or requirements and may impose them in other cases where mass limitations are appropriate.
- 5.15.5 The industrial user may be required by the District to perform sampling, flow metering and other self-monitoring at the user's own expense. The industrial user may also be required to deliver aliquots of samples to the District's laboratory for optional analysis. Any user may contract with a private entity to provide such services as deemed necessary, including, but not limited to, monitoring equipment, sampling and laboratory analysis.
- 5.15.6 The individual user's sampling methods, frequency of sampling and analysis of samples shall be subject to inspection and verification at any time. The industrial user shall maintain records of all information, resulting from its self-monitoring activities. Such records shall include for all samples:
- 5.15.6.1. Dates, times, places and methods of sampling and the name of the person taking the sample;

5.15.6.2. Dates and analytical methods/techniques used for analysis and who performed the analysis;

5.15.6.3. Results of the analysis.

5.15.7 Any industrial user subject to the industrial pretreatment reporting requirements established by this regulation shall be required to retain, for a period of three (3) years, any records of the monitoring activities and results (whether or not such monitoring activities are required by this section), and shall make such records available for inspection and copying by the District. Said period of retention shall be extended to include the pendency of any litigation existing between the user and the District or EPA or the Colorado Department of Health regarding the requirements of the industrial pretreatment program as they relate to the industrial user, or when requested by the District.

5.16 REPORTING REQUIREMENTS

5.16.1 An industrial user subject to a self-monitoring program of sampling and analysis prescribed in its industrial discharge permit shall submit reports of its findings to the District as frequently as required by the permit. If the user is also subject to a categorical standard, additional reports and periodic compliance reports will be required and shall be submitted in the time and manner prescribed by the industrial discharge permit or in accordance with 40 CFR 403.12.

5.16.2 Within ninety (90) days following the date for final compliance with an applicable pretreatment standard, an existing industrial user shall submit to the District a report verifying that the user's regulated discharge is in compliance with the applicable pretreatment standards and requirements. The report shall indicate the results of sampling and analysis of the discharge from each regulated process stream, including the average and maximum daily flow and the nature and quantity of the pollutants limited by the standard. The report shall also state whether the applicable pretreatment standards or requirements are being met on a consistent basis and, if not, what additional operation and maintenance and/or pretreatment is necessary to bring the user into compliance. This statement shall be signed by an authorized representative of the industrial user and certified to by a qualified professional. In the case of a new source, the industrial user shall file the report required by this subsection within ninety (90) days of introducing industrial wastewater into the wastewater system, together with such information as may be necessary to create a baseline report for monitoring compliance.

5.16.3 After submitting the compliance date report, an industrial user subject to a pretreatment standard shall report the results of self-monitoring at least semi-annually to verify continued compliance with the limits contained in the standard. These reports shall be submitted to the District during the months of June and December, unless required more frequently in the pretreatment standard or by the District, indicating for each regulated process stream the nature and quantity of pollutants limited by the pretreatment standards and a record of all daily flows which, during the reporting period, exceeded the average daily flow reported in the compliance date report. The report shall explain any problems or changes in the industrial processes, chemical usage, or wastewater characteristics or flow. The report shall be signed by an authorized representative of the

industrial user and the accuracy certified to by a qualified professional. In the discretion of the District and in consideration of such factors as local high or low flow rates, holidays, budget cycles, etc., the District may agree to alter the months during which the above reports are to be submitted.

5.17 RECORDS

- 5.17.1 Users shall retain and make available upon request of authorized representatives of the District, the State or the EPA all records required to be collected by the user pursuant to this regulation or any permit or order issued pursuant to this regulation.
- 5.17.2 These records shall be made available for a period of at least three (3) years after their collection.
- 5.17.3 This period shall be extended during any litigation concerning compliance with this regulation or permit conditions.

5.18 ACCIDENTAL DISCHARGES

- 5.18.1 Each industrial user shall provide to the District written procedures for preventing and handling accidental discharge of materials or substances prohibited or regulated by this regulation at the time of application for an industrial discharge permit or upon thirty (30) days written notice from the District, whichever occurs first. The user may also be required to provide and maintain containment facilities at the user's expense.
- 5.18.2 Each industrial user shall permanently post on a bulletin board or other prominent place at each area of possible accidental discharge a spill prevention and notification procedure in compliance with this section. Users shall ensure that all employees whose work may cause dangerous discharges or who monitor discharges are advised of the accidental discharge and emergency notification procedures.
- 5.18.3 In the case of an accidental discharge, the user shall immediately notify the District of the incident. The notification shall include location of the accidental discharge, type, concentration and volume of waste, and corrective actions taken. Within five (5) working days following the accidental discharge, the industrial user concerned shall submit to the District a detailed written report describing the cause of the discharge and the measures to be taken by the user to prevent similar future occurrences.
- 5.18.4 An accidental discharger is liable for any expense, loss, damage or liability that may be incurred from injury to the wastewater system or quality of the receiving waters, fish kills or injury to persons or property, and compliance with the notification requirements of this section does not relieve the user from such liability nor from any other liability or civil penalty which may be imposed by this regulation or other applicable law. Failure to report accidental discharges may, in addition to any other remedies, result in the revocation of the user's industrial discharge permit.

5.19 VARIANCES

5.19.1 Industrial wastewater of unusual strength or character or not in compliance with the prohibitive discharge standards of this regulation may be admitted to the wastewater system under an industrial discharge permit or pursuant to a written agreement between the District and any user, upon such terms and conditions and for such periods of time as may be deemed reasonable by the District. Such variances or agreements shall not be construed to waive any applicable pretreatment standards. Variances may be considered only under the following circumstances:

5.19.1.1 Compliance with the local prohibitive discharge provisions or pollutant limitations would impose an undue hardship on the user concerned;

5.19.1.2 Acceptance of the discharge does not adversely affect the wastewater system or cause violation of the District's NPDES permit;

5.19.1.3 The user will compensate the District for any additional costs of surveillance, testing and treatment;

5.19.2 A variance will not be allowed a user seeking relief from a limit imposed by an applicable categorical standard unless the user complies with the procedural requirements and meets the variance criteria established by the Administrator under the Act.

5.20 PRETREATMENT

5.20.1 In addition to providing protection against accidental discharges, an industrial user shall provide all preliminary treatment of its wastewater necessary to bring its discharge in compliance with the prohibitive discharge standards, pollutant limitations and pretreatment standards and requirements before the wastewater is discharged to a public sewer.

5.20.2 To accomplish the preliminary treatment, the District may require that each industrial user provide and operate pretreatment facilities at the user's expense. Detailed plans showing the proposed facilities and operating procedures shall be submitted to and approved by the District prior to construction of the facility. Review and approval of such plans does not relieve the industrial user from the responsibility of modifying the facility as may become necessary to produce an effluent acceptable to the District under the requirements of this regulation. Any subsequent changes in the pretreatment facilities shall be maintained continuously in satisfactory and effective operation by the user at self-expense.

5.20.3 This section applies to existing industrial users as well as to new sources. Existing users shall submit pretreatment plans within thirty (30) days of notification by the District to do so or prior to introducing any industrial wastewater into the public sewer under a new or altered use of the premises.

5.21 GREASE, OIL AND SAND INTERCEPTORS

Interceptors shall be provided when required, when in the judgement of the District or its Engineer they are necessary for the proper handling of liquid wastes containing grease or solids which may be harmful to, or cause obstruction of, the treatment system, or interfere with the operation of the treatment system.

5.21.1 Grease, oil and sand interceptors or other pretreatment facilities shall be provided for laundries, restaurants, service stations, auto repair shops, car washes and other non-residential facilities when, in the opinion of the District, they are necessary for the proper handling of liquid wastes containing FOG in excessive amounts, any flammable wastes, acid or alkaline substances, sand, or other harmful ingredients.

5.21.2 All drains from kitchens, food preparation and dishwashing areas shall be connected to the grease interceptor. Fixtures to be connected include, but are not limited to, scullery sinks, pot and pan sinks, dishwashing machines, soup kettles and floor drains located in areas where grease containing materials may exist. Garbage disposal or garbage grinders will be required to be connected to an approved interceptor.

5.21.3 Toilets, urinals and similar fixtures shall not waste through the interceptor. All waste shall enter the interceptor through the inlet pipe only.

5.21.4 Upon approval by the District, installation of an interceptor will not be required of facilities that do not cook the food that is served, and/or do not wash equipment or utensils associated with preparation or service of cooked foods. All new commercial building within the District must have an ICPP form completed and on file with the District.

5.21.5 Interceptors shall be constructed of impervious materials capable of withstanding abrupt and extreme changes in temperature. They shall be of substantial construction, watertight and equipped with easily removable covers which when bolted in place shall be gas tight and watertight. Interceptors are subject to the requirements of the plumbing code and the District Sanitary Sewer System Specifications.

5.21.6 All interceptors shall be maintained by the owner, at self-expense, in continuously efficient operation at all times, and the owner shall keep records of the dates and means of disposal of captured materials which are subject to review by the District. Any removal and hauling of the collected materials not performed by owner or occupant personnel must be performed by currently licensed waste disposal firms. All records of dates and means of disposal of captured material shall be sent to the District upon completion of each disposal event, a minimum of once a year.

5.22 DISCHARGE LIMITATIONS

5.22.1 The following are the pollutant limitations for dischargers of wastewater:

<u>PARAMETER</u>	<u>MAXIMUM CONCENTRATION (UG/L)</u>	<u>SAMPLE TYPE</u>
Arsenic, total	0.09	composite

Boron, total	750	composite
Cadmium, total	5	composite
Chromium, hexavalent	50	grab
Chromium, total	50	composite
Copper, total	5	composite
Cyanide, amenable	200	grab
Iron, total	300	composite
Lead, total	5	composite
Manganese, total	50	composite
Mercury, total	2	composite
Oil and grease	10,000	grab
pH, minimum	6.5	grab
pH, maximum	9.0	grab
Nickel, total	20	composite
Selenium, total	10	composite
Silver, total	50	composite
Zinc, total	2000	composite

5.22.2 Discharges of fluoride by significant industrial users shall be limited by and industrial discharge permit. Permit limitations will be based on a maximum allowable total discharge of two-hundred-eighteen (218) pounds of fluoride per day.

5.22.3 The concentration of silver in discharges resulting from the development of photographs or x-rays is limited to a maximum of one-hundred (100) mg/l. The limit applies at the end of the development process, downstream of any pretreatment by the discharger, and prior to dilution with other wastewater. Non-acidified grab samples shall be analyzed for compliance monitoring.

5.22.4 Organic compounds that may cause or result in toxic fumes or vapors in the wastewater collection system are limited to a maximum concentration in discharges of wastewater calculated by the following formula:

$$\text{Maximum Concentration in mg/l} = (\text{TVL/TWA})/\text{HLC}$$

Where:

TVL/TWA = The compound's Threshold Level Value/Time-Weighted Average in mg/m³ as listed in the American Conference of Governmental Industrial Hygienists' Guide to Occupational Exposure Values-1992, or latest addition.

HLC = The compound's Henry's Law Constant in (mg/m³)/mg/l).

5.23 VIOLATION NOTIFICATION

5.23.1 In the case of any discharge in violation of this regulation or permit conditions, and in the case of any discharge that could cause problems to the treatment works, including any slug loadings, the industrial user shall immediately notify the District of the discharge by telephone. The notification shall include:

5.23.1.1 The date, time, location and duration of the discharge;

5.23.1.2 The type of waste, including concentration and volume;

5.23.1.3 Any corrective actions taken by the user.

5.23.2 Within five (5) days following such a discharge, the user shall submit a written report describing the cause for the discharge and the measures that will be taken by the user to prevent similar future discharges.

5.23.3 Such notification shall not relieve the user of any expense, loss, damage, or other liability resulting from the discharge, nor shall such notification relieve the user of any fines, civil penalties, or other liability which may be imposed under this regulation or other applicable State or Federal law.

5.23.4 All industrial users shall promptly notify the District in advance of any substantial change in the volume or character of pollutants in their discharge, including the listed or characteristics hazardous wastes for which the industrial user has submitted initial notification under 40 CFR 403.12(p).

5.24 EMPLOYEE TRAINING

The industrial user shall permanently post a notice in a prominent place advertising all employees to call the manager in the event of a dangerous discharge for which notification is required. Employers shall advise all employees who may cause or be injured by such a discharge of the emergency notification procedure.

5.25 FALSIFYING INFORMATION

Any person who knowingly makes false statements, representations or certifications in any application, record, report, plan or other document filed with the District or required to be maintained pursuant to the provisions of this regulation, or of any permit or administrative order issued hereunder, or who falsifies, tampers with or knowingly renders inaccurate any monitoring device or method required under this regulation, or of any permit or administrative order issued hereunder, commits a misdemeanor under this regulation subject to punishment upon conviction.

5.26 BYPASS

5.26.1 An industrial user may allow any bypass to occur which does not violate pretreatment standards or requirements, but only if it is for essential maintenance to assure efficient operation. These bypasses are not subject to B. and C.

5.26.2 Notice

5.26.2.1 If an industrial user knows in advance of the need for a bypass, it shall submit prior notice to the district if possible at least ten (10) days before the date of a bypass.

5.26.2.2 An industrial user shall orally notify the District of an unanticipated bypass that exceeds applicable pretreatment standards or requirements within twenty-four (24) hours of becoming aware of the bypass. A written submission shall also be provided within five (5) days of becoming aware of the bypass. The written submission shall contain a description of the bypass and its cause, the duration of the bypass, including exact times and dates, and if the bypass has not been corrected, the anticipated time it is expected to continue, and the steps taken or planned to reduce, eliminate and prevent recurrence of the bypass.

5.26.2.3 Prohibition of Bypass

A. Bypass is prohibited and the District may take enforcement action against an individual user for a bypass, unless: i) bypass was unavoidable to prevent loss of life, personal injury or severe property damage; ii) there are no feasible alternatives to bypass, such as use of auxiliary treatment facilities, retention of wastes or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed to prevent bypass which occurred during normal periods of equipment downtime or preventative maintenance; and iii) the industrial user submitted notices as required by paragraph B, of this section.

B. The District may approve an anticipated bypass, after considering its adverse effects, if the District determines that it will meet the three conditions listed in paragraph C. (1) of this section.

5.27 UPSET PROVISIONS

5.27.1 Definition: For the purposes of this section, "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with pretreatment standards because of factors beyond the reasonable control of the industrial user. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.

5.27.2 An upset shall constitute an affirmative defense to an action brought for noncompliance with pretreatment standards if the requirements of paragraph C. are met.

5.27.3 An industrial user who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence, that:

5.27.3.1 An upset occurred and the industrial user can identify the cause(s) of the upset;

5.27.3.2 The facility was at the time being operated in a prudent and workman-like manner and in compliance with applicable operation and maintenance procedures;

5.27.3.3 The industrial user has submitted the following information to the District and Control Authority within twenty-four (24) hours of becoming aware of the upset. If this information is provided orally, a written submission must be provided within five (5) days:

- A. A description of the discharge and cause of noncompliance;
- B. The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue;
- C. Steps being taken and/or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

5.27.3.4 In any enforcement proceeding the industrial user seeking to establish the occurrence of an upset shall have the burden of proof.

5.27.3.5 The industrial user shall control production or all discharges to the extent necessary to maintain compliance with pretreatment standards upon reduction, loss, or failure of its treatment facility until the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost or fails.

5.28 SPILL PREVENTION AND SLUG CONTROL PLANS

5.28.1 Industrial users shall provide protection from accidental discharge of materials which may interfere with the treatment works by developing spill prevention plans. Facilities necessary to implement these plans shall be provided and maintained at the Owner's or industrial user's expense. Spill prevention plans, including the facilities and operating procedures, shall be approved by the District before construction of the facility.

5.28.2 Industrial users that store hazardous substances shall not contribute to the treatment works after the effective date of this regulation unless a spill prevention plan has been approved by the District. Approval of such plans shall not relieve the industrial user from complying with all other rules, laws and regulations governing the use, storage, and transportation of hazardous substances.

5.28.3 The District shall evaluate each significant industrial user at least once every two (2) years, and other industrial users as necessary, to determine whether such user needs a plan to control slug discharges. If the District decides that a slug control plan is needed, the plan shall contain, at a minimum, the following elements:

5.28.3.1 Description of discharge practices, including routine and non-routine batch discharges;

5.28.3.2 Descriptions of stored chemicals;

5.28.3.3 Procedures for immediately notifying the District of slug discharges, including any discharge that would violate a prohibition, with procedures for follow-up written notification within five (5) days;

5.28.3.4 If necessary, procedures to prevent adverse impact from accidental spills, including inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site runoff, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants (including solvents), and measures and equipment for emergency response;

5.28.3.5 If necessary, follow-up practices to limit damage suffered by the treatment plant or the environment.

5.29 TRADE SECRETS

5.29.1 Information and data, (other than effluent data), on an industrial user obtained from reports, questionnaires, permit applications, permits and monitoring programs and from inspections shall be available to the public or some other governmental agency without restriction unless the user specifically requests and is able to demonstrate to the satisfaction of the District that the release of such information would divulge information, processes or methods of production entitled to protection as trade secrets of the user. Any such request must be asserted at the time of submission of the information or data. When such a confidentiality claim is asserted, the information shall be treated as such until the District makes a determination. Wastewater constituents and characteristics including effluent data shall be available to the public without restriction.

5.29.2 When the person furnishing a report satisfies the District that such a person has made the demonstration required by A., the portions of a report which might disclose trade secrets or secret processes shall not be made available for inspection except by governmental agencies for uses related to this regulation, the NPDES permit or the pretreatment program. Confidential portions of a report shall be available for use by governmental agencies in judicial review or enforcement proceedings involving the person furnishing the report. Effluent data will not be recognized as confidential information.

**SECTION 6
USE REGULATIONS**

6.1 EXCESSIVE DISCHARGE PROHIBITED

6.1.1 It is unlawful for any person to discharge or cause to be discharged any stormwater, surface water, water from natural springs and groundwater, roof runoff, subsurface drainage, uncontaminated cooling water or unpolluted industrial process water or like waters into any sanitary sewer, except as authorized in writing by the District. Any person seeking authorization for such discharge shall make application to the District in accordance with this regulation and shall pay all fees and charges as established pursuant to this regulation. As a part of any application for such discharge, the applicant must also provide the District with a good and reliable estimate, made by a registered engineer authorized by profession to make such estimate, of the quantity of water to be discharged, showing the peak day amount of discharge in number of gallons per day. Upon finding by the District that:

6.1.1.1 The applicant cannot reasonably discharge such water onto the applicant's own property for irrigation, piscatorial or other purposes;

6.1.1.1.1 There exists no authorized stormwater facility within four-hundred (400) feet of the property line upon which the discharge is generated or, if such facility does exist within such distance, the requirement to connect to such facility would result in peculiar and exceptional practical difficulties to or undue hardship upon the applicant by reason of the existence of an extraordinary physical barrier or obstruction lying between such property and such facility;

6.1.1.1.2 Adequate capacity to accept the discharge exists within the affected sanitary sewer line;

6.1.1.1.3 The discharge of such water into the sanitary sewer line will not hinder or threaten to hinder the District's ability to comply with its NPDES permit requirements for the removal of BOD and TSS;

6.1.1.1.4 Such water is not contaminated with petroleum or other substances which could threaten or endanger the safe and efficient operation and maintenance of the District's wastewater collection and treatment system;

6.1.1.1.5 Any improvements situated upon the property generating the discharge have not been constructed with careless or willful disregard for the need to protect such improvements from groundwater without utilizing the provisions of this section; then the District may authorize such discharge upon the condition that the applicant first pay all additional plant investment fees required by this regulation applicable to such excessive discharge and pay in a timely manner any additional monthly charges applicable to such excessive discharge. In the event that an authorized stormwater facility should, at some later time, become available for acceptance of the aforesaid discharge, the District shall have the right to terminate any

authorization is so terminated, no further discharge which has been given pursuant to this subparagraph. If such authorization is so terminated, no further discharge into the sanitary sewer shall be permitted.

- 6.1.1.1.6 No user shall increase the use of process water or in any way attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with any applicable limitations set by this regulation.

6.2 PROHIBITIVE DISCHARGE STANDARDS

- 6.2.1 No user, whether subject to pretreatment standards or requirements or not, shall contribute or cause to be contributed directly or indirectly any pollutant or wastewater that may interfere with the operation or performance of the wastewater system or pass through the treatment system untreated or any pollutant or wastewater that is prohibited by the national prohibitive discharge standards. Without limiting the acts or discharge that may constitute a violation of this section, a user shall not contribute any of the following wastewater, substances, materials or wastes into the District's wastewater system:

- 6.2.1.1 Any liquids, solids or gases which by reason or other nature or quantity are or may be sufficient, either alone or by interaction with other substances, to cause fire or explosion or be injurious in any other way to the wastewater system or to the operation of the wastewater system. At no time shall two (2) successive readings on any explosion hazard meter, at the point of discharge into the system, be more than five (5) percent nor any single reading over ten (10) percent of the lower explosive limit (LEL) of the meter; Prohibited materials include, without limitation, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, sulfides, waste streams with a closed cup flash point of less than one-hundred-forty (140) degrees Fahrenheit or sixty (60) degrees Celsius, as determined using test methods specified in 40 CFR 261.21, and any other substance which the District, State or EPA has notified the user is a fire hazard or a hazard to the system;

- 6.2.1.2 Any solid or viscous substance which could cause an obstruction to flow in the sewers or in any way could interfere with the treatment process, including without limitation: ashes, cinders, sand, mud, tars, gas, cement, plaster, stone or marble dust, asphalt residues, spent lime, wax, paraffin, paint, wood, sawdust or shavings, straw, grass clippings, wastepaper, plastics, metals, glass, rags, paunch manure, animal bones, hooves or toenails, hides, hair or bristles, fat, fleshings or entrails, poultry heads, feet or feathers, whole blood, beer and distillery slops, grain processing wastes, grinding or polishing compounds, acetylene generation sludge, chemical residues from refining or processing of fuel or lubricating oil, and all other like solid materials, objects, refuse and debris;

- 6.2.1.3 Garbage that has not been ground or comminuted to such a degree that all particles are less than one-fourth (1/4) inch in any dimension and will be carried freely in suspension under conditions normally prevailing in public sewers;
- 6.2.1.4 Any wastewater containing pollutants which either singly or by interaction with other substances results in the presence of toxic gases, vapors or fumes within the treatment system in a quantity that may cause acute worker health and safety problems or otherwise cause injury or interference with the wastewater collection system or treatment process, or create any hazard or toxic effect in the receiving waters or exceed the limitations for toxic pollutants set forth in this regulation or in categorical standards;
- 6.2.1.5 Excessive amounts of ammonia nitrogen or substances readily converted thereto or any other substance which will cause the District to violate its NPDES permit or the receiving water quality standards;
- 6.2.1.6 Any substance that may cause the effluent or any other product of the District's wastewater treatment facilities, such as residues, sludge or scums, to be unsuitable for reclamation and reuse, or to interfere with the reclamation process where the District is pursuing a reuse and reclamation program, or cause the District to be in noncompliance with Federal or State sludge use or disposal criteria, guidelines or regulations;
- 6.2.1.7 Any pollutants, including oxygen-demanding pollutants (BOD, etc.) released at a flow or pollutant concentration which will cause interference with the wastewater system. In no case shall such pollutants be released at slug load;
- 6.2.1.8 Any wastewater containing any radioactive wastes or isotope of such half-life or concentration as may exceed limits stated in the "Rules and Regulations Pertaining to Radiological Control," published by the Colorado Department of Health and Environment;
- 6.2.1.9 Any wastewater with objectionable color not removable in the treatment process, such as but not limited to, dye wastes, paint pigments and vegetable tanning solutions;
- 6.2.1.10 Any wastewater having a pH of less than 5.0 or more than 9.0 or wastewater having any other corrosive property capable of causing damage or hazard to structures, equipment and/or personnel of the District;
- 6.2.1.11 Any wastewater having a temperature which will cause the temperature of the influent to the wastewater treatment facility to exceed forty (40) degrees Celsius or inhibit the biological activity in the wastewater system;
- 6.2.1.12 Any petroleum oil, non-biodegradable cutting oil, products of mineral oil origin or any other fat, oil and grease in amounts that will cause interference or pass through;

- 6.2.1.13 Wastes from septic tank pumpage or vaults, or any other trucked or hauled pollutants unless pursuant to a specific written agreement with the District;
- 6.2.1.14 Any wastewater containing BOD, dissolved solids or suspended solids of such character and quantity that unusual attention or expense is required to handle such materials at the wastewater treatment facility unless pursuant to a specific written agreement with the District;
- 6.2.1.15 Any material or substance not specifically mentioned in this section which in itself is corrosive, irritating or noxious to human beings and animals or which by interaction with other water or waste in the public sewer system could produce undesirable effects such as preventing entry into the sanitary sewer for its maintenance and repair or create any other condition deleterious to structures, treatment processes and quality of the receiving waters.

6.3 SPECIFIC POLLUTANT LIMITATIONS

- 6.3.1 No person shall discharge wastewater containing pollutants in excess of the limitations on discharge set forth in this regulation unless permitted by the terms and conditions of an industrial wastewater discharge permit.
- 6.3.2 Any material or substance entering into the public sewer which interferes with the wastewater system, even if it is within the wastewater concentration limitations, may be prohibited upon written notice by the District.

SECTION 7 ENFORCEMENT

7.1 REVOCATION OF ALL SERVICES

Water and wastewater services shall be revocable by the District upon non-payment of valid fees owing to the District, as set forth herein, or upon failure to comply with the Rules and Regulations of the District, whether or not the violation in question relates to the provision or receipt of any particular service. The provision of District services is in this regard viewed as an integrated matter, and the violation of one section is considered a violation of the Rules and Regulations generally. It shall not be a defense to the revocation of all District services that only a portion of these Rules and Regulations have been violated. Accordingly, the violation of any part of these Rules and Regulations may result in the revocation of all services. In the event of non-compliance with the rules and regulations other than non-payment of fees, the customer shall be given ten (10) days' notice of revocation, in order to provide an opportunity for correction of such non-compliance.

7.2 REVOCATION OF PERMIT

7.2.1 The District may revoke a service permit or industrial discharge permit and terminate the water and/or wastewater services of any permittee who:

7.2.1.1 Violates any condition stated in the permit, any provisions of this regulation, any provision of an administrative order issued under this regulation, or any applicable State or Federal law, rule or regulation;

7.2.1.2 Provided false information, intentionally or otherwise, in its original application for a service or industrial discharge permit, and who failed to notify the District of such error upon receiving notice of such false information;

7.2.1.3 Fails to report an accidental discharge of a toxic pollutant;

7.2.1.4 Increases the use of process water or attempts to dilute its discharge for the sole purpose of achieving compliance with any limitations;

7.2.1.5 Falsifies any report of the wastewater constituents and discharge characteristics;

7.2.1.6 Fails to report significant changes in operations or wastewater constituents or characteristics;

7.2.1.7 Tampers with, disrupts, or destroys District monitoring and sampling equipment or facilities;

7.2.1.8 Refuses reasonable access to its premises for the purpose of inspection or monitoring; or

7.2.1.9 Fails to pay any fees or charges.

- 7.2.2 If the District finds one of the grounds in 7.2.1 or any other ground for revocation in this regulation, the District may issue a cease and desist order either revoking the permit for the remainder of its term or suspending it for any shorter period according to the severity of the violation, its effect on public health, safety and welfare, and the time during which the violation can be remedied, if at all.
- 7.2.3 Any user notified by a cease and desist order of the revocation of its industrial discharge permit or privilege to use the wastewater system shall immediately stop or eliminate the offending discharge. If the user fails to voluntarily comply with the cease and desist order, the District may turn off District water to the premises and, when necessary to prevent or minimize damage to the wastewater system, harm to any individual, or harm to the environment, disconnect the wastewater service.
- 7.2.4 The District may reinstate the industrial discharge permit and the privilege to use water and/or wastewater system service upon proof that the violation of this regulation, or of a permit or administrative order issued hereunder, has been eliminated and upon the payment by the user of all costs and expenses incurred by the District as a result of the violation, on account of the suspension of service, and for the restoration of water and/or wastewater service.
- 7.2.5 The District may, in its sole discretion, require a holder of a revoked license to re-apply for the service or industrial discharge permit before service is resumed if circumstances warrant such action.

7.3 NOTICE OF VIOLATION

Whenever the District finds that any user has violated or is violating this regulation, or a permit or administrative order issued hereunder, the District may have served upon said user a notice of violation. The notice may require from the user an explanation of the violation and the submission of a satisfactory plan for the correction and prevention thereof. Submission of the plan and completion of any related actions shall not relieve the user of liability for any violations of this regulation occurring before or after receipt of the notice or prevent the District from taking any other enforcement action authorized under this regulation.

7.4 ADMINISTRATIVE ORDERS

Whenever the District finds that any user has violated or is violating this regulation, or a permit or administrative order hereunder, the District may have served upon said user an administrative order. Such order may be a compliance order, a show cause order, a cease and desist order, or an order assessing an administrative fine. Compliance with an administrative order shall not relieve the user of liability for any violations occurring before or after the issuance of the administrative order or prevent the District from taking any other enforcement action authorized under this regulation.

7.5 CONSENT ORDERS

The District is authorized to enter into consent orders establishing an agreement with any user responsible for noncompliance with the provisions of this regulation or of a permit or

administrative order issued under this regulation. Such orders shall include specific action to be taken by the user to correct the noncompliance within a time period also specified by the order. The consent order shall have the same force and effect as administrative orders issued pursuant to this regulation.

7.6 SHOW CAUSE HEARING

Whenever the District finds that any user has violated or is violating this regulation, or a permit or administrative order issued hereunder, the District may hold a show cause hearing. A show cause order specifying the time and place of the hearing, the reason for the hearing, any proposed enforcement action, and a request that the user show cause why the proposed enforcement action should not be taken, shall be served on the user. The show cause order shall be served on the user at least ten (10) days prior to the hearing. Whether or not a duly notified user appears or is represented at the hearing, the District may immediately pursue any other enforcement action authorized under this regulation.

7.7 COMPLIANCE ORDER

Whenever the District finds that any user has violated or continues to violate the terms of a permit or an order issued thereunder, the District may issue an order to the user responsible for the discharge or other violation directing that, following a specified time period, service shall be discontinued unless the violation is remedied, if necessary, that adequate treatment facilities, devices, or other related appurtenances have been installed and are properly operated, and compliance is achieved. Orders may also contain such other requirements as might be reasonably necessary and appropriate to address the noncompliance, including additional self-monitoring, changed management practices, and/or the installation of pretreatment or other necessary technologies.

7.8 CEASE AND DESIST ORDERS

When the District finds that any user has violated or continues to violate this regulation or any permit or order issued hereunder, the District may issue an order to immediately cease and desist all illegal or unauthorized action and/or discharges immediately. The following may apply:

- 7.8.1 In an emergency, the order to cease and desist may be given by telephone.
- 7.8.2 In non-emergency situations, the cease and desist order may be used to suspend or permanently revoke service or industrial wastewater discharge permits.
- 7.8.3 The cease and desist order may order the user to take such appropriate remedial or preventative action as may be needed to properly address a continuing or threatened violation, including halting operations and/or terminating a discharge.

7.9 EMERGENCY SUSPENSIONS

- 7.9.1 The District may suspend the service and/or permit of any user whenever such suspension is necessary in order to stop an actual or threatened discharge or other

violation presenting or causing an imminent or substantial endangerment to the health or welfare of persons, District systems, or the environment.

7.9.2 Any user notified of a suspension of service and/or a permit shall immediately stop or eliminate its contribution and/or other noncompliant activities. In the event of a user's failure to immediately comply voluntarily with the suspension order, the District shall take such steps as deemed necessary, including immediate severance of the water or sewer connections, to prevent or minimize damage to District systems, receiving streams, or endangerment to any individuals. The District shall allow the user to recommence its activities when the endangerment has passed, unless service termination proceedings are initiated against the user.

7.9.3 A user responsible, in whole or in part, for imminent endangerment shall submit a detailed written statement describing the causes of the harmful contribution and/or other noncompliant activity and the measures taken to prevent any future occurrence to the District prior to the date of the hearing described in section 7.6 above.

7.10 ADMINISTRATIVE FINES

Whenever the District finds that any user has violated or is violating this regulation, or a permit or administrative order issued hereunder, the District may issue and serve on the user an administrative order assessing an administrative fine against the user. The District may assess an administrative fine of up to one-thousand-dollars (\$1,000.00) for each violation. Each day on which noncompliance continues shall be deemed a separate and distinct violation. Such assessed fines may be added to the user's next scheduled services charges and if not paid may be collected as other delinquent charges under this regulation. Such unpaid fines shall also constitute a perpetual lien against the real property to which the service is provided to the user. Payment of an administrative fine shall not relieve the user of any other liability provided for under this regulation or prevent the District from taking any other enforcement action authorized under this regulation.

7.10.1 A violation of a monthly average discharge limitation shall be considered to be the number of violations equal to the number of days of the user's discharge into the wastewater system during the month.

7.11 ADMINISTRATIVE APPEAL PROCEDURE

7.11.1 Any permit applicant, permit holder, or user affected by and dissatisfied with any decision, action, administrative order, assessment of administrative fine, or determination made and issued by the District in interpreting, enforcing or implementing the provisions of this regulation, or the provisions of any permit or administrative order issued under this regulation, shall file with the District a written request for reconsideration within ten (10) working days from the date of such decision, action, administrative order or determination, setting forth in detail the facts supporting the request, whereupon the District shall hold a hearing within ten (10) working days of such request. All requests for such reconsideration shall be acted upon by the District within ten (10) working days from the date of the hearing. The decision, action, administrative order or determination shall remain in effect during the reconsideration period.

7.11.2 If the person requesting the reconsideration is not satisfied with the final decision of the District and wishes to appeal the decision, such person shall appeal the District's final decision to the District Board, which appeal shall be heard at the next regularly scheduled meeting of the District Board.

7.12 CIVIL LIABILITY

Any user who has violated or continues to violate this regulation, or any permit or administrative order issued hereunder, shall be liable to the District for a civil penalty of not more than ten-thousand-dollars (\$10,000.00), plus any actual damages incurred by the District, per violation per day for as long as the violation continues. In addition to the above described penalty and damages, the District may recover from the user the District's reasonable attorney's fees, court costs, and other expenses incurred as a result of its enforcement activities, including sampling and monitoring expenses. If the user fails to voluntarily pay to the District the civil penalty, the District may commence a legal action in a court of competent jurisdiction for recovery of such sums. In determining the amount of the user's liability, the court shall take into account all relevant circumstances, including, but not limited to, the extent of harm caused by the violation, the magnitude and duration of the violation, any economic benefit gained by the user from the violation, corrective actions taken by the user, the compliance history of the user, and any other factors as justice requires.

7.13 LEGAL AND INJUNCTIVE RELIEF

If any user violates any provision of this regulation, or any permit or administrative order issued hereunder, or any Federal or State requirements or commits any other act contrary to said provisions, permits, or orders, the District may commence an action for appropriate legal and/or equitable relief, including, without limitation, a temporary restraining order, preliminary injunction, and/or permanent injunction against the violator. In such event, the District may recover reasonable attorney's fees, court costs, court reporter's fees, and other expenses of litigation from the violator if the District prevails in the litigation.

7.14 CIVIL LIABILITY FOR EXPENSES AND FINES

7.14.1 Any person violating the provisions of this regulation, or of any permit or administrative order issued hereunder, shall be liable to the District for any expense, loss or damage caused the District by reason of such violation including, without limitation, the increased costs for managing effluent and sludge, when such increases are the result of the user's discharge. Such charges will be added to a user's service charges and if not paid may be collected as other delinquent charges under this regulation.

7.14.2 If a user discharges pollutants that cause the District to violate any condition of its NPDES permit and to be fined by EPA or the State for such violation, the user shall be liable to the District for the total amount of the fine assessed against the District including without limitation, all legal, sampling and analytical testing costs. Such fine will be added to the user's service charges and if not paid may be collected as other delinquent charges under this regulation. Such unpaid fine shall also constitute a perpetual lien against the real property to which the sewer service is provided to the user.

7.15 CRIMINAL VIOLATION

Any person who recklessly, knowingly, or intentionally violates any provision of this regulation, or of any permit or administrative order issued hereunder, or any Federal or State law or regulation adopted by reference by this regulation, or any rules or regulation promulgated under this regulation, shall be guilty of a misdemeanor subject to punishment upon conviction. Each day on which a violation occurs shall be deemed a separate and distinct violation. A violation of a monthly average discharge limitation shall be considered to be the number of violations equal to the number of days of the user's discharge into the wastewater system during the month. The District may initiate a criminal prosecution against any person in violation of this section by the filing of a written complaint with the County Attorney. If the County Attorney finds that there is probable cause to believe that a violation of this section was committed and that probable cause exists to believe that such person committed the violation, the County Attorney may commence in County Court a criminal prosecution of the person in accordance with the rules of County Court.

7.16 SERVICE

Any notice of violation or administrative order required to be served by this regulation on a user shall be made by personal service or by mailing such notice or order by certified mail, return receipt requested, to the last known address of the user. If required by this regulation or by any State or Federal law, a notice advising a person or user of the enactment of an applicable pretreatment standard or requirement shall be served in the same manner.

7.17 REMEDIES CUMULATIVE

It is the purpose of this regulation to provide additional and cumulative remedies to prevent, control and abate water pollution; to protect water quality; to protect the wastewater system; to protect the health, safety and welfare of the public; and to protect the environment. Nothing in this regulation shall be deemed to abridge, affect, preclude or alter any rights of action or remedies available to the District or under any State or Federal law, rule, or regulation.

7.18 PUBLIC NOTIFICATION OF NONCOMPLIANT INDUSTRIAL USERS

The District shall, at least annually, publish in the largest daily newspaper in the District a list of industrial users which, at any time during the previous twelve (12) months, were in significant noncompliance. A summary of related enforcement action taken shall be included in such publication.

7.19 TERMINATION OF PERMIT OF NONCOMPLIANT INDUSTRIAL USERS

Any significant industrial user proposing to discharge into the treatment system must first obtain a wastewater discharge permit from the District. Any user who violates the following conditions of this regulation or a wastewater permit or order, or any applicable or State and Federal law, is subject to permit termination:

7.19.1 Violation of permit conditions;

- 7.19.2 Failure to accurately report the wastewater constituents and characteristics of its discharge;
- 7.19.3 Failure to report significant changes in operations or wastewater constituents and characteristics; or
- 7.19.4 Refusal of reasonable access to the user's premises for the purpose of inspection, monitoring or sampling.

Non-compliant industrial users will be notified of the proposed termination of their wastewater permit and be offered an opportunity to show cause under section 6.6 of this regulation why the proposed action should not be taken.

7.20 WASTEWATER DISCHARGE VIOLATION

- 7.20.1 If wastewater containing any substance described in the discharge prohibitions or in excess of pollutant limitations is being or has been discharged or is proposed to be discharged into the wastewater system, the District, by administrative order or any other procedure or measure authorized by this regulation, may:
 - 7.20.1.1 Prohibit the discharge of the wastewater;
 - 7.20.1.2 Require payment from the person making, causing or allowing the discharge to cover the added cost of handling and treating the offending wastewater, any cleanup costs incurred by the District as a result of the discharge violation, and any other fines or penalties levied by the District as provided for in these Rules and Regulations.
 - 7.20.1.3 Require pretreatment of the wastewater to a condition acceptable for discharge to the public sewer;
 - 7.20.1.4 Require control over the quantities and rates of discharge through storage facilities and flow equalization;
 - 7.20.1.5 Require the installation of dual systems and service lines to separate the discharge of industrial wastewater from the discharge of sanitary wastewater;
 - 7.20.1.6 Require the installation or modifications of accidental discharge procedures and facilities as necessary;
 - 7.20.1.7 Take such other or further remedial or enforcement action as is authorized under this regulation.
- 7.20.2 The District may immediately halt or eliminate an actual or threatened discharge of any liquid, solid or other material including, but not limited to wastewater, into the wastewater system without prior written notice if the District determines that such discharge:
 - 7.20.2.1 Presents an imminent substantial endangerment to the health or welfare of persons or to the environment;

7.20.2.2 Will result in interference with the wastewater system;

7.20.2.3 Will cause the District to violate its NPDES permit; or

7.20.2.4 Will result in pass through.

7.20.3 Except in the case of a spill where accidental discharge procedures must be followed, the user concerned shall notify the District within twenty-four (24) hours of becoming aware of any discharge in violation of this regulation, or of a permit or administrative order issued hereunder. The user's initial notification shall be followed within five (5) working days by a detailed written statement to the District from the user describing the causes of the harmful contribution and the measures taken to prevent any future occurrence.

7.21 GREASE, SAND, AND OIL INTERCEPTORS: ENFORCEMENT

7.21.1 The District will initiate procedures against the Customer/Owner responsible for the grease, sand or oil interceptor to obtain compliance with these Rules and Regulations, if the District discovers the grease, sand or oil interceptor is not properly maintained.

7.21.2 Whenever a discharge of Sewage or the operation of a grease, sand or oil interceptor is in violation of the provisions of these Rules and Regulations or otherwise causes or threatens to cause a condition of contamination, pollution or nuisance, the District will issue written notice to correct the practice within seventy-two (72) hours of the notice. If the practice is not corrected within such time, the District may notify the State Health Department and turn off water service or effect disconnection of the Sewer Service Line from the Sewer Collection System, until such time as the District has received adequate assurances that any and all violations of the Rules and Regulations will cease and will not occur in the future. In addition, all of the costs of the aforementioned proceedings shall be charged against the property and, until paid shall constitute a perpetual lien against the property.

7.21.3 When a discharge of wastes causes an obstruction, damage or any other impairment to the District's facilities, the District may assess a charge against the Customer and/or Owner for the work required to clean or repair the facility and add such charge to the Customer's and/or Owner's sewer service charge, and the District shall have such remedies for the collection of such costs as it has for the collection of sewer service charges, which until paid shall constitute a perpetual lien against the property.

7.21.4 In order to effect its powers, the District may enter upon private property for the purpose of inspection and maintenance of sanitary and waste disposal facilities and may terminate service to property in which a violation of any of these Rules and Regulations is found to exist pursuant to the procedures set forth herein.

7.21.5 The prohibitions against unauthorized discharge of wastes proscribed in this Section include the dumping or pumping of wastes directly into the District's manholes without the prior written consent of the Manager.

SECTION 8 FEE STRUCTURE

The District collects rates, fees, tolls, charges and surcharges, and penalties relating to the facilities, services, and programs of the District. For the water, sewer and irrigation systems, pursuant to the agreements, the District may collect surcharges which are added to the bills sent to customers for the purpose of paying the District's outstanding debt and other system related purposes.

The information contained in this section is pertinent to all charges of whatever nature to be levied for provision of service inside the District. Said rates and charges as herein established shall be set forth in a Fee Schedule as part of these rules and regulations, and may be viewed by the public at the District's offices. Nothing contained herein shall limit the Board from, at any time and without notice, modifying the rates and charges set forth in the Fee Schedule in Appendix A or from modifying any classification set forth in these rules and regulations.

The rates, charges and other information shown herein shall apply only to customers inside the District, and shall in no way obligate the District to provide service outside the District under any of the conditions contained in this section.

8.1 PERMISSIBLE FEES AND CHARGES

The District may adopt fees and charges which may include, but need not be limited to, the following:

- 8.1.1 Fees for all water, irrigation and wastewater utility costs, including maintenance and operation;
- 8.1.2 Fees for reimbursement of costs of establishing and operating the wastewater pretreatment program;
- 8.1.3 Fees for monitoring, inspections, and surveillance procedures, including laboratory analysis;
- 8.1.4 Fees for permit applications;
- 8.1.5 Fees for connection, repairs and disconnection;
- 8.1.6 Fees for inspections, surveys, development and expansion;
- 8.1.7 Water, irrigation, and wastewater plant investment fees;
- 8.1.8 Standby fees;
- 8.1.9 Wastewater strength and lift station surcharges;
- 8.1.10 Fees for the review, approval and construction observation of new developments or changes in use of an existing development or commercial property;

8.1.11 Other fees as the District may deem necessary to carry out the requirements of these regulations.

8.2 DETERMINATION OF USER RATES AND ANNUAL ADJUSTMENT

8.2.1 The District Manager shall analyze the operating and financial records of the utility during each calendar year and recommend to the Board user rates or adjustments to be in effect for the following year.

8.2.2 The District Manager shall base the recommendation on the actual cost of serving each class user, including in the consideration the costs of operating, maintaining, replacing, and repairing the water distribution and treatment system, and the wastewater collection and treatment system, costs for administration, personnel and billing, capital improvement costs, the number of users, and the estimated users in each class. The user charges shall be revised as necessary to assure that sufficient funds are obtained to adequately operate and maintain the water, irrigation, and wastewater systems.

8.2.3 All commercial users, whether permitted under the industrial pretreatment program or not, are required to reapply for a contribution permit annually. The District shall review the fees charged to commercial and industrial users annually, and make adjustments as necessary.

8.3 CLASSIFICATION OF USERS

Water and irrigation services are metered by the District. Charges and fees for sewer service shall be as adopted by the Board of Directors. Industrial or commercial service of unusual composition, strength, or flow characteristics shall be metered and sampled, and the cost of all such metering and sampling equipment and operation shall be paid by the customer of the service.

The users of the water, irrigation and wastewater systems may be divided into various classifications, including, but not limited to, single-family dwelling, duplex, multi-family dwelling, and non-residential. Additional classifications may be established by the District for each non-residential user class. Mobile home parks are to be classified as multi-family dwellings. Hotels, rooming houses, sororities, fraternities and similar uses are to be classified as non-residential uses. Each user shall be classed into one (1) of the following categories and charged at the applicable rate:

Category A: Single-family residential users.

Category B: Duplex (two-family) residential users.

Category C: Multi-family residential users [more than two (2) dwelling units including mobile home parks.

Category D: Minor non-residential user. A Minor non-residential user is a user who discharges only wastes of a type and strength normally discharged by private

residences. All non-residential users not subject to the provisions of categories C, E, and F shall be classed as minor non-residential users in Category D.

Category E: Significant users (wastewater only). A significant user is a user listed in divisions A, B, D, E, and I of the Standard Industrial Classification (SIC) Manual who discharges domestic-type wastes with a strength in excess of any of the following parameters:

- (1) COD greater than three-hundred (300) mg/l;
- (2) Five-day BOD greater than two-hundred (200) mg/l;
- (3) TOC greater than one-hundred (100) mg/l; or
- (4) TSS concentration greater than two hundred fifty (250) mg/l.

Category F: All users who have been issued significant industrial discharge permits (wastewater only).

Category G: Users outside the District service areas.

Category H: Special with Agreement. Users in this category shall include those with whom the District has negotiated agreements to provide water distribution and/or treatment, and/or wastewater collection and/or treatment, such as quasi-municipal sanitation districts, major industries, and large institutions whether within or without the District service areas. Users in this category may be required to obtain an industrial discharge permit.

8.4 SERVICE CHARGES

8.4.1 Service charges for all services furnished by the District, including, but not limited to, water and sewer service, landscape maintenance, recreational facilities services, and other services or programs shall commence for each unit or property at the time the water meter is installed.

Whenever possible, bills for service will be directed to the owner of record of the property rather than the occupant. The property owner may request that bills be sent to a lessee, provided that any such request shall recognize that the property owner is ultimately responsible for payment. When a condominium association exists for a number of units receiving service from the District through one meter, said association shall receive a bill for all units serviced by the association. In no event shall the District bill the owners of individual units within a condominium unless service to each unit is metered separately. Service charges shall be as reflected in the fee schedule.

Monthly service charges for water, irrigation, and wastewater service are determined by category as hereinafter provided. Non-residential users are also subject to a monthly surcharge according to the strength and quantity of wastewater discharged into the wastewater system.

8.4.2 Service charges are not applicable during the original construction period of the building or structure to be served. At the time a certificate of occupancy is issued for the building or structure, the charges will begin to be assessed and will continue until the water service is disconnected.

8.4.3 The rate determination by category is as follows:

8.4.3.1 The rate for categories A, B, and C shall be billed upon the basis of metered water consumption.

8.4.3.2 The users in categories D, E, and F shall be billed upon the basis of metered water consumption, except where they can show to the satisfaction of the District that not all of the water going through the meter is returned to the wastewater system but is instead consumed in the process or otherwise diverted. In such cases, and with approval of the District, the wastewater charges may be based upon one of the following methods: (a) a metering device of a type and installed in a manner approved by the District may be used to measure the quantity of wastewater returned to the public sewer and the actual volume of wastewater discharged will be substituted for billing purposes; or (b) when the user discharges only wastes reasonably and regularly corresponding to winter quarter water use, said winter quarter water use may be substituted for billing purposes. Any metering device used to measure wastewater shall be installed and maintained at the user's expense.

8.4.3.3 The rate for users in category G shall be set forth in 8.5.

8.4.3.4 The rate for users in category H shall be determined by negotiation with the party concerned. However, the rate shall be based upon the cost of service and shall not be less than that of in-District users and shall include any wastewater strength surcharges.

8.4.3.5 The rates for users in category I shall be determined annually by the District Manager and the Board.

8.5 WASTEWATER STRENGTH OR INDUSTRIAL SURCHARGE

8.5.1 Industrial and significant users in categories E, F, G, H, and I shall also be subject to a monthly surcharge for excessive strength of BOD, COD, TOC, and TSS in their discharged wastewater in addition to the base monthly service rate per volume of water consumed or volume of wastewater discharged. The surcharge rates shall be based on the extra costs incurred by the District in surveillance, sampling, and testing of the discharges, for additional operating and maintenance expenses and for any other action required to identify, handle, process or supplement normal activities due to the excessive strength, plus overhead charges.

8.5.2 Various surcharge categories based on customary commercial and industrial activities and the average concentration of BOD, COD, and TSS found in wastewater from each

such category shall be established. Significant users of category E and significant industrial users of category F shall be classified as one (1) of the surcharge categories. Unless the actual concentrations of the parameters in the user's wastewater are being monitored under the conditions of an industrial discharge permit, calculation of the user's wastewater strength surcharge will be based on the average concentration values established for the applicable surcharge category.

8.5.3 The amount of wastewater strength surcharge to be billed each user shall be calculated from one (1) of the following three (3) formulas, depending on whether the wastewater is more amenable to testing for BOD, COD, or TOC or on the selection of the District in the absence of monitoring:

8.5.3.1 $C_s = V_u[B_c(B) + S_c(S)]$

8.5.3.2 $C_s = V_u[COD_c(COD) + S_c(S)]$

8.5.3.3 $C_s = V_u[TOC_c(TOC) + S_c(S)]$

Where:

- C_s = Customer's surcharge for wastewater of excessive strength per billing period.
- V_u = Volume of water used or wastewater discharged per billing period.
- B_c = Service cost for treatment of a unit of BOD.
- B = Concentration of BOD from a user in excess of 200 mg/l.
- S_c = Service cost for treatment of a unit of TSS.
- S = Concentration of TSS from a user in excess of 250 mg/l.
- COD_c = Service cost for treatment of a unit of COD.
- COD = Concentration of COD from a user in excess of 300mg/l.
- TOC_c = Service cost for treatment of a unit of TOC.
- TOC = Concentration of TOC from a user in excess of 100 mg/l.

8.5.4 The District shall determine average concentration values for other categories and for any user that does not fall within one of the categories established as needed and shall determine the appropriate category for individual users who may request a change in category. If sufficient information has been submitted by the user, and if the District finds that the evidence submitted supports the requested change, the District shall thereupon effect such change.

8.6 WASTEWATER STRENGTH SCHEDULE

8.6.1 The schedule of wastewater strength surcharge for customers shall be as follows:

<u>Parameter</u>	<u>Excess over (mg/l)</u>	<u>RATE PER 1,000 GALLONS</u>
BOD	200	\$0.0015
COD	300	\$0.00075
TOC	100	\$0.00225
TSS	250	\$0.0015

8.6.2 The schedule of average concentrations for the various categories is as follows:

<u>Average Concentration for Category</u>				
	<u>Category</u>	<u>BOD (mg/l)</u>	<u>COD (mg/l)</u>	<u>TSS (mg/l)</u>
E-1	Meat Packing	848	1,272	846
E-2	Slaughterhouses	1,420	2,130	1,367
E-3	Dairy products processing	1,127	1,691	445
E-4	Fruit/vegetable canning	537	806	306
E-5	Grain mills	978	1,467	1,406
E-6	Bakeries	688	1,032	620
E-7	Sugar processing	395	593	274
E-8	Fats and oil processing	403	605	343
E-9	Rendering tallow	319	479	140
E-10	Beverage bottling	536	804	192
E-11	Misc. food manufacturing	2,961	4,442	563
E-12	Pulp products	157	236	477
E-13	Inorganic chemicals	89	134	3,249
E-14	Paint manufacturing	481	722	1,039
E-15	Ink manufacturing	412	618	156
E-16	Leather tanning	2,039	3,059	1,435
E-17	Drum cleaning	503	755	974
E-18	Restaurants	820	1,230	905
E-19	Hotels and motels	310	465	121
E-20	Fast food service	400	600	450
E-21	Commercial laundries	596	894	367
E-22	Laundromats	219	329	87

Average Concentration for Category				
	Category	BOD (mg/l)	COD (mg/l)	TSS (mg/l)
E-23	Industrial laundries	1,322	1,983	1,461
E-24	Hospitals	231	347	266
E-25	Service stations	385	578	30
E-26	Funeral homes	300	450	275
E-27	School kitchens	150	225	350
E-28	Car wash	330	495	112
E-29	Domestic waste	200	300	250
E-30	Recreational vehicle dumping facility	770	1,156	500
E-31	Other categories	*	*	*

*Values to be determined as needed by the District

8.7 SURCHARGE FOR LIFT STATIONS

Users connected to public sewers served by a wastewater lift station may be subject to a monthly surcharge to cover the cost of operating and maintaining the lift station for their benefit.

8.8 PAYMENT OF SERVICE CHARGES

Statements for charges for all fees shall be rendered on such periodic basis as the Board shall deem appropriate. Charges for late payments, turn-on, turn-off, and other such charges shall be added to the bills.

Bills shall be payable within twenty (20) days of the statement date. All bills which are not paid within twenty (20) days of the statement date shall be deemed delinquent, and all bills that are over thirty (30) days delinquent shall be assessed a penalty of ten-dollars (\$10.00) per month plus one-percent (1%) per month of all amounts due (**See Appendix A**).

The District may discontinue water and sewer service to any delinquent account. Notice of discontinuance shall be mailed with the statement advising that payment must be made within twenty (20) days from the date of the notice or service will be discontinued. If payment is not made within twenty (20) days of the date of such notice, the District may turn off the service. Deposit for service, if any, shall be applied against the outstanding bill.

8.9 UNPAID CHARGES

No person shall be permitted to use District services if the fees and charges imposed by this regulation have not been paid in full. If a person fails or refuses to pay such fees and charges, the District may collect the unpaid amounts in accordance with any remedies permitted.

8.10 MISCELLANEOUS COSTS AND EXPENSES INDEMNIFICATION

All costs and expenses incident to the installation and connection of water, sewer and/or irrigation service shall be borne by the property owner. The property owner shall indemnify and hold harmless the District and Board for any loss or damage that may directly or indirectly be occasioned by the installation and use of the water, irrigation or sewer service on the property owner's property.

8.11 LIABILITY FOR PAYMENT

Until paid, all rates, tolls, fees and charges shall constitute a first and perpetual lien on or against the property served, and any such lien may be foreclosed in the manner provided by law. If the District determines that a foreclosure is necessary to obtain payment of such rates, tolls, fees and charges, a foreclosure fee shall be assessed against the property to offset the costs of prosecuting such foreclosure, and such foreclosure fee shall constitute a first and perpetual lien on the property as well.

The District shall have the right to assess any customer who is tardy in payment of his/her account all legal, court, and other costs necessary to or incidental to the collection of said account. All such costs shall be deemed a charge of the District.

Regardless of who actually receives services from the District, the owner and the occupant are hereby deemed equally liable for charges of the District. The District assumes no responsibility hereby for any agreement made between owners and occupants, regardless of how made or the District having been notified of such agreement, and the District reserves all rights to enforce its collection efforts against either, both and/or the property served.

8.12 CONTRACTOR RESPONSIBILITIES

The District assumes no responsibility for agreements between contractors and property owners or occupants. It shall be the responsibility of the property owner to ascertain whether fees and charges have been paid by the contractor. Regardless of ownership or of the failure of the District to collect fees and charges at the time of issuance of permits or any other act or omission of the District, unpaid fees and charges shall constitute a first and potential lien on and against the property, which lien may be foreclosed as provided by law.

8.13 UNAUTHORIZED COLLECTION PENALTIES

An unauthorized connection penalty in an amount determined by the Board shall be payable by persons connecting to the District's lines without prior payment of all applicable tap fees, approval of such connection, application for service, or opportunity given the District for inspection of lines.

In addition to the penalty described above, the person making and using the unauthorized connection shall be liable for all rates, fees, tolls, charges, and penalties of the District applicable during the time of such unauthorized connection, including but not limited to, estimated use service charges.

8.14 TURN-OFF FEE

After service has been shut off by the District for any reason, a turn-off fee shall be charged for turning off the service, and cost of turning the service back on (Appendix A).

8.15 PENALTY FOR “UNAUTHORIZED TURN-ON”

It shall be illegal for any person other than employees or officials of the District to turn on water or irrigation or reconnect a sewer service line, and a penalty in an amount determined by the Board (Appendix A) shall be charged for any unauthorized turn-on.

In addition to the penalty described above, the person making and using the unauthorized turn-on shall be liable for all rates, fees, tolls, charges, and penalties of the District applicable during the time of such unauthorized turn-on, including, but not limited to, estimated water use service charges.

8.16 CHANGE IN USE OR SQUARE FOOTAGE

An industrial or commercial customer or user desiring to change the use and/or the square footage of its premises at any time after purchase of the tap shall give notice to the District of the proposed change in use and/or square footage, and shall apply for additional taps as may in the opinion of the District be necessary, and shall pay any additional tap fees in the same manner and timeliness as in an original application for service.

Any industrial or commercial customer not notifying the District of such change in use and/or square footage shall be assessed all additional fees on the next monthly statement after a Board determination that there has been a change in use and/or square footage. The monthly statement shall be notice that such additional tap fees are past due and must be paid within twenty (20) days.

8.17 AUTHORIZATION TO COLLECT FEES AND CHARGES

The Board of the District may authorize any or all fees, rates, tolls, penalties and charges to be collected on behalf of the District.

APPENDIX A
RATES, FEES AND CHARGES

**STONEGATE VILLAGE METROPOLITAN DISTRICT
WATER RATES AND PENALTIES
RESOLUTION**

A RESOLUTION REGARDING THE INCREASE/INSTITUTION OF WATER FEES/RATES AND PENALTIES FOR SERVICES PROVIDED BY THE STONEGATE VILLAGE METROPOLITAN DISTRICT, DOUGLAS COUNTY, COLORADO.

WHEREAS, the Stonegate Village Metropolitan District (the "District") is a duly organized and existing special district operating under the provisions of the Special District Act, Section 32-1-101, *et seq.*, C.R.S.; and

WHEREAS, the District is governed by a Board of Directors (the "Board"), charged with the power from time to time to fix, adjust or increase fees, tolls, rates, penalties or charges for domestic water or sanitary sewer services provided to the District's residential and/or commercial property owners provided by the District to properties both within and without the District's boundaries; and

WHEREAS, the Board determined at a special meeting held on December 15, 2016 and at a special meeting held on March 24, 2017, that the rates currently charged for fees, tolls, rates, penalties or charges for domestic water or sanitary sewer services to customers of the District were insufficient to defray the actual costs of such service, and that the District must increase such rates to remain economically viable; and

WHEREAS, this resolution is to ratify and approve the actions taken at the public meetings of the District that were noticed pursuant to Colorado Revised Statutes; and

WHEREAS, the District's provision of services to its constituents and customers confers a benefit, and the continued provision of such services is necessary to the health, safety, and wellbeing of its constituents and customers.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the District shall, and hereby does ratify the above-referenced actions and orders that the fees charged for tolls, rates, penalties or charges for domestic water services provided by the District to be increased to amounts sufficient to offset the cost of service as reflected in Appendix A to the District's Rules and Regulations which is hereby amended to reflect the rates in Exhibit A hereto as adopted by this Resolution with such rates being effective as of January 1, 2017.

RESOLVED this 18TH day of October, 2017

STONEGATE VILLAGE
METROPOLITAN DISTRICT

By: _____
Its: President

ATTEST:

Secretary

Monthly Service Charges (\$/month) – COS Rates

Meter Size	2017
3/4 – Inch	\$21.44
1 – Inch	42.88
1 ½ - Inch	85.76
2 – Inch	171.52
3 – Inch	385.92
4 – Inch	771.84
6 - Inch	2,015.36

Residential Volumetric Rates (\$/kgal) – COS Rates

Usage Block	2017
Block 1	\$2.24
Block 2	4.11
Block 3	5.97
Block 4	7.46
Block 5	10.44

Multi-Family Volumetric Rates (\$/kgal) – COS Rates

Usage Block	2017
Block 1	\$1.81
Block 2	3.32
Block 3	4.83
Block 4	6.03
Block 5	8.44

Commercial Volumetric Rates (\$/kgal) – COS Rates

Usage Block	2017
Block 1	\$1.81
Block 2	3.32
Block 3	4.83
Block 4	6.03
Block 5	8.44

Irrigation Volumetric Rates

Usage Block	2017
Block 1	\$1.81
Block 2	3.32
Block 3	4.83
Block 4	6.03
Block 5	8.44

WISE Renewable Water Fees

Meter Size	2017
¾ - Inch	\$15.45
1 - Inch	30.90
1 ½ - Inch	61.80
2- Inch	123.60
3 - Inch	278.10
4 - Inch	556.20
6 - Inch	1,452.30

Late Fees

Fee	2017
Late Fee (after the 25 th of each month)	\$10 plus 1% interest

Stonegate Village Metropolitan District

2017 Fee Schedule Amended and Adopted

Effective January 1, 2017

Community Center

Room Rental Fee Parties and Events Residential Non Business

Community Center

\$100.00 per Event (4 hours) plus \$25.00/Hour over 4 hours

Non-Profit Groups 501c3 Required

Community Center

\$15.00

Room Rental Fee- For Business Parties/Events

Community Center

\$75.00 per Hour 2 hour Minimum

Note: For Non Stonegate Village Metropolitan District Residents rental fees \$400 per hour 4 hour minimum. \$100 hour over 4 hours

Damage Deposit Non Resident	
Community Center	\$1,000.00
Credit Card Convenience Charge	
Utility Bills paid online via credit card	2.5% of payment
Schedule of Special Charges	
Turn On Fee	\$50.00
Turn Off Fee	\$50.00
Transfer Fee	\$75.00
Return Check Fee	\$30.00
Late Fee	\$10.00 plus 1 % of balance
New Meter Install/Water turn on -Failure to notify SVM	\$250.00 per occurrence plus calculated back charges
Shut-Off Notice Posting Fee	\$50.00

Tap and Development Fee Schedule

Water

Meter Size	SFE Equivalent	Tap Fee	Supplemental Water Resources Fee	Administrative Costs	Total Water Connection Charge
3/4"	1.0	\$ 12,265.58	\$ 14,325.33	\$ 759.43	\$27,350.34
1.0"	2.0	\$ 24,531.16	\$ 28,650.66	\$ 1,518.86	\$54,700.68
1.5"	4.0	\$ 49,062.32	\$ 57,301.32	\$ 3,037.72	\$109,401.36
2.0"	8.0	\$ 98,124.64	\$ 114,602.64	\$ 6,075.44	\$218,802.72
3.0"	18.0	\$ 220,780.44	\$ 257,855.94	\$ 13,669.74	\$492,306.12
>3.0"					By Agreement Only
Multi-Family	0.5	\$ 6,132.79	\$ 7,162.67	\$ -	\$13,295.46
Townhome	0.75	\$ 9,199.19	\$ 10,744.00	\$ -	\$19,943.18

Wastewater

Meter Size	SFE Equivalent	Connection Fee	Total Wastewater Connection Charge
3/4"	1.0	\$ 4,000.00	\$4,000.00
1.0"	2.0	\$ 8,000.00	\$8,000.00
1.5"	4.0	\$ 16,000.00	\$16,000.00
2.0"	8.0	\$ 32,000.00	\$32,000.00
3.0"	18.0	\$ 72,000.00	\$72,000.00
>3.0"			By Agreement Only
Multi-Family	0.5	\$ 2,000.00 per Unit	\$2,000.00
Townhome	0.75	\$ 3,000.00 per Unit	\$3,000.00

Inclusion Fee for New Development	
Cost Per Acre	\$4,000.00
Water Rates and Fees	See Attached Tariffs
Miscellaneous Fees	
Park and Recreation Fee	\$32.00 per Unit
Lincoln Park SVM D Facility use Fee	\$6.00 per Unit

APPENDIX B

PARKS AND RECREATION RULES AND REGULATIONS

1.1 General Park and Recreation Rules and Regulations

1. Hours. The park and recreation areas shall be open daily from dawn until dusk, unless otherwise set forth by the District.

a. No person shall be allowed within the park and recreation areas of the District when such areas are closed, unless authorized to do so pursuant to the written permission of the District.

b. The District may hold special events or activities outside the hours set forth in these Rules and Regulations.

c. Private events or activities may be held outside the hours set forth in these Rules and Regulations only when authorized pursuant to the written permission of the District.

2. Advertising, Soliciting, Panhandling

a. Advertising shall not be permitted in any park and recreation area of the District unless such advertising is authorized by the District in writing or is authorized in a concessionaire contract with the District for goods sold on premises.

b. It shall be unlawful to conduct any commercial activity, or sell or offer for sale any service, product, or activity for which a fee is charged, on any park or open space lands, except when such activity is authorized in writing by the District.

c. It shall be unlawful to engage in any form of begging or soliciting within any park and recreation area within the District.

3. Animals

a. Owners or custodians of dogs shall have such dogs leashed at all times while present at park and recreation areas within the District.

b. Owners or custodians of all pets are responsible for the immediate removal of pet waste from all park and recreation areas within the District.

c. No animal shall be left unattended and/or tethered to any facility, structure, trees, or other objects within the District's park and recreation areas.

d. Wildlife and/or its habitat shall not be disturbed in any manner.

4. Prohibited Conduct/Activities

a. Littering. It shall be unlawful to dump, deposit, discard, throw, or leave any bottles, caps, broken pieces of glass, papers, boxes, dirt, rubbish, waste, garbage, refuse or trash upon or within any park or other recreational area or facility in the District. It shall be unlawful for any person utilizing the facility of any park or recreational area or facility in the District to leave such area or facility without first having completely cleaned up all trash, waste, or garbage and placed it in a disposal receptacle. If no receptacle is provided, such persons shall remove all trash, waste, or garbage from the park or other recreational area or facility and properly dispose of it elsewhere. The act of dumping, depositing, discarding, throwing or leaving shall be sufficient in and of itself to constitute a complete act of littering; it shall not be necessary for the person dumping, depositing, discarding, throwing, or leaving to depart from the immediate vicinity in order to constitute littering.

b. Alcohol. Alcohol is permitted in designated areas as displayed on signage at the entrances to the parks and open spaces. It shall be unlawful to sell any alcoholic beverage in any park or recreation area within the District, unless authorized by the District through the issuance of a permit.

c. Unauthorized motorized vehicles shall not be driven in the park and recreation areas of the District.

d. The use or possession of golf equipment within District park and recreation areas is strictly forbidden.

e. Noise. Music or noise of any type or source must be kept to a level so as not to disturb other users of the park and recreation facilities and/or surrounding property owners. Any device for the purpose of amplification of the human voice, music or other sound is prohibited without the express written consent of the District.

f. Signs; Banners. The posting of signs or banners of any type to District property shall not be allowed unless expressly authorized in writing by the District. The District's Board reserves the right to implement reasonable restrictions on the time, place and manner of any allowable signs or banners. Signs and banners posted in violation of this regulation shall be subject to removal and disposal by the District without notice.

g. Removal/Destruction of District Property. The removal or destruction of District property, including, but not limited to, landscape materials, irrigation systems, trees or vegetation is strictly prohibited. Landscape features shall not be disturbed, moved, or altered in any manner. Violators will be prosecuted to the full extent of the law.

5. Site Reservations; Group Activities

a. Pavilions located within the District's pocket parks shall be available to users on a first-come, first-served basis. The District shall not take reservations for the use of such spaces.

b. The Gazebo and nearby picnic and BBQ facilities are available for reservations for Stonegate and Lincoln Park residents on a first-come, first-serve basis for private functions.

c. All users of park facilities and shelters shall be personally liable for the destruction of District property and for any damage to nearby property caused by the activity of the users of such park facilities and shelters.

d. Groups of thirty people or more must obtain a permit from the District prior to hosting or conducting any activities within the District's park and recreation areas.

e. All users of park facilities and shelters are responsible for removing and properly disposing of all trash, litter and debris, and the cleanup of all spills, within the immediate areas occupied by such users.

f. No portion or area of a park or shelter shall be cordoned off or otherwise reserved for use without written permission of the District.

6. Permits.

a. The District may, in its sole discretion, authorize conduct or activities otherwise prohibited by these rules and regulations, through the issuance of a permit for such conduct or activities.

7. Enforcement. The District may contract with local law enforcement or private security agencies to patrol or monitor the District's park and recreation areas. All rules and regulations of the District shall be enforced by such agencies, and such agencies may enforce the laws or regulations of the State, County, or other applicable governmental agency.

1.2 Community Center Rules and Regulations

1. All persons using or attending the Community Center shall abide by any rules and regulations adopted by the District and updated from time to time.

1.3 Community Pool Rules and Regulations

1. District rules and regulations concerning the use of the Community Pool are attached hereto as Appendix B and are subject to change at any time upon determination by the District Board of Directors.

2. All persons using or attending the Community Pool shall abide by these rules and regulations, the rules and regulations set forth in Appendix B, and any rules and regulations adopted by the District and updated from time to time.

1.4 Tennis Court Rules and Regulations

1. All persons using the tennis courts shall abide by the District's any rules and regulations adopted by the District and updated from time to time.

APPENDIX C

SERVICE PLAN

SERVICE PLAN FOR THE
FORMATION OF THE
STONEGATE VILLAGE METROPOLITAN DISTRICT

NOVEMBER, 1982

Job Number 5062912

Prepared By:

MSM CONSULTANTS, INC.
570 West 44th Avenue
Denver, Colorado 80216
(303) 455-7321

ERRATA

Service Plan for the Formation of the
Stonegate Village Metropolitan District

<u>CHAPTER</u>	<u>PAGE #</u>	<u>PARAGRAPH</u>	<u>CORRECTION</u>
List of Tables		Section 7 Line 7.1	"Operatins" should be "Operations".
II	3	2 Item 4	"treatment" should be "disposal".
II	4	1 Line 2	"management" should be "maintenance".
<u>SECTION</u>	<u>PAGE #</u>	<u>PARAGRAPH</u>	<u>CORRECTION</u>
3	3.4	Footnote Line 2	Should read: "while the Maximum Day Demand is 4 times the Average Day Demand and the Maximum Hour Demand is 6 times the Average Day Demand."
3	3.10	Footnote Top of Page	Footnote should appear at the bottom of Page 3.9.
3	3.14	Bottom of Page	Reference to Table "3.23" should be Table "3.18".
3	3.16	3 Line 2	"units" should be "unit".
3	3.23 - 3-28		Replace these pages with pages provided.
4	4.1	1 - Line 9	Insert "," between procedure and effluent.
5	5.2	Table 5.1	<u>Linear footage of street and roadway improvements should be shown as follows:</u> 1. 35,725 2. 22,525 3. 7,875 4. 22,775
<u>CHAPTER</u>	<u>PAGE #</u>	<u>PARAGRAPH</u>	<u>CORRECTION</u>
VI	3	2 Line 16	"requirst" should be "require".

ERRATA
Service Plan for the Formation of the
Stonegate Village Metropolitan District

<u>PAGE #</u>	<u>PARAGRAPH</u>	<u>CORRECTION</u>
3	Section 7 Line 7.1	"Operatins" should be "Operations".
4	2 Item 4	"treatment" should be "disposal".
	1 Line 2	"management" should be "maintenance".

<u>PAGE #</u>	<u>PARAGRAPH</u>	<u>CORRECTION</u>
3.4	Footnote Line 2	Should read: "while the Maximum Day Demand is 4 times the Average Day Demand and the Maximum Hour Demand is 6 times the Average Day Demand."
	Footnote Top of Page	Footnote should appear at the bottom of Page 3.9.
	Bottom of Page	Reference to Table "3.23" should be Table "3.18".
	Line 2	"units" should be "unit".
	Line 9	Replace these pages with pages provided.

<u>PAGE #</u>	<u>PARAGRAPH</u>	<u>CORRECTION</u>
5.1	Insert ", " between procedure and effluent.	
	Linear footage of street and roadway improvements should be shown as follows:	
1.	35,725	
2.	22,525	
3.	7,875	
4.	22,775	

<u>PAGE #</u>	<u>PARAGRAPH</u>	<u>CORRECTION</u>
		"requirest" should be "require".

TABLE OF CONTENTS

	<u>PAGE</u>
Chapter I. - Introduction	1
Chapter II. - Purpose	3
Chapter III. - Service Area	5
Chapter IV. - Development Anticipation	6
Chapter V. - Capital Improvement Schedule	8
SECTION 1 - Parks and Recreation Facilities	1.1
SECTION 2 - Transportation System	2.1
SECTION 3 - Proposed Water Distribution System	
3.1 General	3.1
3.2 Water System Design Criteria	3.1
3.3 Water Demands - Ultimate Development	3.5
3.4 Required Fire Flow	3.6
3.5 Summary of Water Demands	3.8
3.6 Water Availability	3.9
3.7 Proposed Well Facilities	3.12
3.8 Ultimate Well Pumping Requirements	3.13
3.9 Ultimate Storage Requirements	3.14
3.10 Ultimate Booster Pump Station Requirements	3.15
3.11 Construction Phasing	3.16
3.12 Computation of Construction Costs	3.23
3.13 Preliminary Cost Estimates to Develop a Complete Water System	3.29
3.14 Phase Construction Costs	3.30
SECTION 4 - Proposed Sanitary Sewer System	
4.1 General	4.1
4.2 General Topography	4.1
4.3 Sanitary Sewer System Design Criteria	4.2
4.4 Computation of Sanitary Sewer Flows	4.3
4.5 Computation of Construction Costs	4.8
4.6 Preliminary Cost Estimates to Develop a Sanitary Sewer System	4.11
4.7 Phased Construction Cost	4.11
SECTION 5 - Proposed Street and Roadway Improvements	
5.1 General	5.1
5.2 Computation of Linear Feet of Street and Roadway Improvements	5.1
5.3 Computation of Construction Costs	5.2

TABLE OF CONTENTS
(Cont'd)

PAGE

SECTION 6 - Amenities and Other Cost Considerations

6.1	Amenities	6.1
6.2	Other Cost Considerations	6.2

SECTION 7 - Summary of Water, Sanitary Sewer, Roadway
Improvements and Amenities Construction Costs
and Schedules

7.1	Operating and Maintenance Costs	7.1
-----	---------------------------------	-----

Chapter VI. Financial Analysis

CONCLUSION

LIST OF TABLES

NUMBER

PAGE

SECTION 2

2-1	Land Use and Projected Population	2.2
-----	-----------------------------------	-----

SECTION 3

3.1	Areas of Outside Irrigation	3.2
3.2	Average Day Water Demands - Ultimate Development	3.3
3.3	Water Demand Criteria	3.4
3.4	Residential Water Demands - Ultimate Development	3.5
3.5	School and Community Center Water Demands- Ultimate Development	3.5
3.6	Ultimate Water Demands	3.8
3.7	Water Availability	3.9
3.8	Acre-Foot Usage Per Year	3.10
3.9	Proposed Well Facilities	3.12
3.10	Ultimate Well Pumping Requirements	3.13
3.11	Ultimate Storage Requirements	3.14
3.12	Ultimate Booster Pump Station Requirements	3.15
3.13	Construction Phasing - Area to be Served	3.16
3.14	Residential Water Demands - Phased Construction	3.17
3.15	Other Water Demands - Phased Construction	3.18
3.16	Total Water Demands - Phased Construction	3.19
3.17	Well Pumping Requirements - Phased Construction	3.20
3.18	Storage Requirements - Phased Construction	3.21
3.19	Booster Pump Station Requirements - Phased Construction	3.22
3.20	Water Main Distribution System - Construction Costs	3.23
3.21	District Cost of Regional Water Facilities	3.24
3.22	Well Construction Costs	3.25
3.23	Raw Water Main Construction Costs	3.26
3.24	Storage Tanks, Chlorine Contact Chamber and Booster Pump Station Construction Costs	3.27
3.25	Summary of Water Facilities Construction Costs	3.28
3.26	Total Cost for the Installation of a Complete Water System	3.29
3.27	Phased Construction Cost (In-Tract)	3.30
3.28	Summary of In-Tract Phased Water Main Construction Costs	3.35
3.29	Phased Well Construction Costs	3.36
3.30	Phased Raw Water Construction Costs	3.36.1
3.31	Phased Booster Pump Station and Storage Tank Construction Costs	3.37
3.32	Summary of District Phased Water Construction Costs	3.38

SECTION 4

4.1	Sanitary Sewer System Design Criteria	4.3
4.2	Computation of Projected Sanitary Sewer Flows Line "A"	4.4

LIST OF TABLES

NUMBER

PAGE

SECTION 4 (cont'd)

4.3	Computation of Projected Commercial Sanitary Sewer Flows Line "A"	4.5
4.4	Computation of Projected Sanitary Sewer Flows Line "B"	4.6
4.5	Computation of Projected Commercial Sanitary Sewer Flows Line "B"	4.7
4.6	Total Sanitary Sewer Flows Entering Facilities of the Stonegate Center Metropolitan District	4.8
4.7	Sanitary Sewer System - Construction Cost	4.9
4.8	District Cost of Regional Sanitary Sewer Facilities	4.10
4.9	Summary of Sanitary Sewer Facilities Construction Cost	4.10
4.10	Total Cost for the Installation of a Complete Sanitary Sewer System	4.11
4.11	Sanitary Sewer Collection System Line "A" Construction Costs (In-Tract)	4.12
4.12	Summary of Construction Costs Line "A"	4.14
4.13	Sanitary Sewer Collection System Line "B" Construction Costs (In-Tract)	4.15
4.14	Summary of Construction Costs Line "B"	4.17
4.15	Summary of Phased Construction Costs	4.18
4.16	Summary of District Phased Construction Costs	4.19

SECTION 5

5.1	Linear Footage of Street and Roadway Improvements	5.1
5.2	Computation of Construction Costs	5.2
5.3	Roadway Breakdown Construction Costs	5.3
5.4	Summary of Linear Footage Costs	5.4
5.6	Roadway Improvements - Phased Construction Costs	5.7
5.7	Roadway Breakdown Construction Cost - Phased Construction	5.8
5.8	Summary of Roadway Breakdown Construction Cost Phased Construction	5.11

SECTION 6

6.1	Ammenities Construction Cost and Phasing	6.1
6.2	Other Considerations	6.2

SECTION 7

7.1	Yearly Operatins and Maintenance Costs	7.2
-----	--	-----

EXHIBITS

NUMBER

DESCRIPTION

- | | |
|---|---|
| A | Legal Description |
| B | Overall Master Water Plan |
| C | Overall Master Sanitary Sewer Plan |
| D | Overall Roadway and Bridge Improvement Plan |

CHAPTER I

INTRODUCTION

This Service Plan is submitted in accordance with section 32-1-201 et seq., C.R.S. 1973, as amended (the "Control Act").

The name of the proposed special district is "Stonegate Village Metropolitan District" (the "District").

The purposes of the District are as follows: parks and recreation, sanitation, street improvement, transportation and water.

The District is located generally southeast of the City and County of Denver in Douglas County, Colorado and lies within Sections 16 and 17, all in Township 6 South, Range 66 West of the 6th P.M. The District contains approximately 639 acres.

The services to be provided by the District are as follows:

1. to provide parks and recreation facilities and services, both active and passive, together with all necessary, incidental and appurtenant facilities, for the District, its users and inhabitants;

2. to provide a complete sanitary and storm sewage collection, transmission, treatment and disposal system, including flood and surface drainage, together with all necessary, incidental and appurtenant facilities, for the District, its users and inhabitants;

3. to provide, if feasible, for the establishment, operation and maintenance of a system to transport the public by bus, rail or any other means of conveyance, or any combination thereof, together with all necessary, incidental and appurtenant facilities, for the District, its users and inhabitants; and

4. to provide a complete water supply, treatment, storage, transmission and distribution system for domestic and other public and private purposes, together with all necessary, incidental and appurtenant facilities, for the District, its users and inhabitants.

This Service Plan was prepared under the direction of Stonegate Developments Inc., 7315 East Orchard Road, Suite 400, Englewood, Colorado 80111. The following consultants were involved:

Rick Goncalves (engineering)

MSM/SP Group
570 West 44th Avenue
Denver, Colorado 80216
455-7321

Mark A. Fightmaster (financing)

Hanifen, Imhoff Inc.
1125 17th Street, Suite 1700
Denver, Colorado 80202
291-2300

C. Michael Sayre (legal)

Calkins, Kramer, Grimshaw & Harring
621 17th Street, Suite 1900
Denver, Colorado 80293
629-1900

CHAPTER II

PURPOSE

The purpose of the District is to provide, on a planned, flexible and cost-efficient basis, essential services to and for the benefit of the inhabitants and users of the District. As noted in detail in Chapter I, such services shall include parks and recreation, sanitation, street improvement, transportation and water.

The prospect of obtaining one or more of the services set forth above from existing governmental entities in the general area has been investigated in depth. It has been determined that the interests of the inhabitants and users of the District would be best served by the organization of Stonegate Village Metropolitan District for the following reasons:

1. greater flexibility in the timing of improvements;
2. better availability and lower cost of water;
3. greater financial strength leading to more favorable bond rates and lower mill levies;
4. ready availability of land for effluent treatment;
5. local decision-making opportunities; and
6. professional management.

The following existing service providers in the general area have been investigated:

Cottonwood Water and Sanitation District
Parker Water and Sanitation District/Town of Parker
Arapahoe Water and Sanitation District
Lincoln Park West Metropolitan District

Distance, topography and cost rule out consideration of the latter two entities as realistic alternatives. With respect to the first two entities, most if not all of the factors heretofore set forth as reasons for the organization of the District would not be fulfilled through association with, inclusion in, or service from those entities, a result which would work to the detriment of the inhabitants and users of the District.

The District strongly supports the concept of ultimate regional management and operation of water, sewer and transportation facilities in the Upper Cherry Creek Basin by a financially-sound and professionally managed regional entity. The District would be prepared to assist in all appropriate studies and planning efforts and would be ready and willing to cooperate in facilitating inter-governmental institutional efforts toward this goal.

CHAPTER III

SERVICE AREA

The District is located generally southeast of the City and County of Denver in Douglas County, Colorado and lies within Sections 16 and 17, all in Township 6 South, Range 66 West of the 6th P.M. the District contains approximately 639 acres.

A legal description of the area to be included in the District is set forth in Exhibit A.

A map of the District is attached as Exhibit B.

The District lies wholly within Douglas County, Colorado. No portion of the District is within any other special district providing the same services. No portion of the District is within any incorporated city or town.

CHAPTER IV

DEVELOPMENT ANTICIPATION

The land within the District is currently undeveloped. In July 1982, Stonegate was rezoned P.D., and the land within the District is planned to be developed for primarily residential use. Population projections are based upon current zoning, the applicable Land Use Plan and market research/absorption studies submitted under separate cover.

The following table sets forth the general projected land use and population within the District at ultimate development.

TYPE OF LAND USE	ACRES	DWELLING UNITS	PROJECTED POPULATION (2.8 Cap./Unit)
A. <u>Residential Development</u>			
1. Single-Family Detached (6000 S.F. Lots)	130.58	948	2,654
(8500 S.F. Lots)	91.13	467	1,308
(4000 S.F. Zero Lots/ Cluster)	21.85	238	666
2. Townhouses	<u>47.39</u>	<u>847</u>	<u>2,372</u>
RESIDENTIAL TOTALS	290.95	2,500	7,000
B. <u>Other</u>			
1. Designated Open Space	167.75		
2. Public Dedicated Areas	45.0		
3. Community Center	16.0		
4. Community Parks	29.4		
5. Roadways	89.9		
TOTAL	638.995	2,500	7,000

The following table sets forth projected land use and population within the District phased according to the anticipated development schedule.

			NUMBER OF DWELLING UNITS		POPULATION	
PHASE	YEAR	UNIT TYPE	PHASE	ACCUM	PHASE	ACCUM
1	1983					
	-84	SF	260	260	728	728
2	1985	SF	243	503	680	1,408
3	1986	SF	239	742	670	2,078
4	1987	SF/TH	285	1,027	798	2,878
5	1988	SF/TH	304	1,331	851	3,727
6	1989	SF/ZL				
		TH	295	1,626	826	4,553
7	1990	SF/TH	296	1,922	829	5,382
8	1991	SF/ZL				
		TH	296	2,218	829	6,211
9	1992	TH	282	2,500	789	7,000

Assessed valuation projections are set forth in Chapter VI of this Service Plan (FINANCIAL ANALYSIS).

CHAPTER V

CAPITAL IMPROVEMENT SCHEDULE

The facilities to be provided by the District are set forth in this Chapter V. Phasing schedules, costs and standards of construction are presented where applicable. In all cases, standards imposed by Douglas County or other governmental agencies will be met or exceeded.

Capital improvement schedules and/or facilities to be provided shall be addressed separately consistent with the District's purposes.

It is intended that the Stonegate Center Metropolitan District would own, operate and construct water, sewer, street and transportation facilities of a regional nature designed for the use and benefit of its inhabitants and users, and the inhabitants and users of the Stonegate Village Metropolitan District. An inter-governmental agreement will be executed by both special districts providing for joint funding based upon the ratio of relative use and benefit, providing for ownership and operation of the facilities by Stonegate Center Metropolitan District, and securing rights in capacity and use for the inhabitants and users of the District. The amount and phasing of General Obligation bond issues by the two special districts will be based upon relative development and service requirements. See Chapter VI (FINANCIAL ANALYSIS) of this Service Plan and Chapter VI (FINANCIAL ANALYSIS) of the Service Plan submitted for Stonegate Center Metropolitan District.

SECTION 1

PARKS AND RECREATION FACILITIES

In addition to installing a complete water and sanitary sewer system and roadway improvements the District shall also install and own the following amenities:

- a. Swimming pool;
- b. Tennis courts (8 unlighted and 4 lighted);
- c. Recreation center;
- d. Swimming lake;
- e. Parking lots.

Table 6.1 summarizes the anticipated costs and phasing for the above mentioned amenities.

TABLE 6.1
AMMENITIES CONSTRUCTION COST AND PHASING

YEAR	SWIMMING POOL	TENNIS COURTS	RECREATION CENTER	SWIMMING LAKE	PARKING LOTS	TOTALS
1983		\$145,140		\$324,794		\$ 469,934
1984			\$221,400			221,400
1985						
1986		\$184,500			\$233,249	417,749
1987	\$175,275					175,275
1988		83,640				83,640
1989						
1990						
1991						
TOTALS	\$175,275	\$413,280	\$221,400	\$324,794	\$233,249	\$1,367,998*

* Includes 13% for Contingencies and 10% for Engineering

SECTION 2

TRANSPORTATION SYSTEM

The District may undertake the establishment, operation, and maintenance of a transportation system for the purpose of providing transportation within or without the District's boundaries. This may be accomplished by the District alone or in conjunction with other special districts, the Regional Transportation District, or other governmental or private entities. The District may enter into contracts for the acquisition, construction operation, and maintenance of the transportation system.

The transportation system will be financed by the issuance of General Obligation bonds which must be approved by the electors of the District, or the leasing of necessary equipment and facilities or any combination thereof. The debt service on the bonds or lease rentals will be paid in whole or in part from the District's mill levies. Until the District authorizes an initial engineering and feasibility study, the acquisition and construction costs and methods of financing for such a project remain unknown.

SECTION 3

PROPOSED WATER DISTRIBUTION SYSTEM

3.1 GENERAL

The water to serve the area shall be obtained through a series of wells and transported by a raw water main network to an area consisting of a chlorine contact chamber, storage tank and Booster Pump station where the water will be treated, stored and pumped into the main distribution system. The wells, raw water transmission network, chlorine contact chamber, storage tanks and Booster Pump station shall be installed, owned and maintained by the Stonegate Center Metropolitan District. The proposed water distribution system is shown on Exhibit "B" - Overall Master Water Plan.

3.2 WATER SYSTEM DESIGN CRITERIA

The water usage for this Service Plan is based on past factual data as established for developments of the type proposed for the District and data published by the Denver Water Board which estimates future usage based on historical metered usage. In order to calculate the various required demands, the areas of outside irrigation must be determined. Table 3.1 shows the anticipated areas of outside irrigation based on residential lot size data developed by Stonegate Developments, Inc.

TABLE 3.1
AREAS OF OUTSIDE IRRIGATION

Type of Development	Units	Lot Size (sq.ft.)	Irrigated Area (sq.ft.)	Total Area (sq.ft.)
Single Family Detached	948	6,000	3,000	2,844,000
	467	8,500	4,500	2,101,500
	238	4,000	2,000	476,000
Townhouses	847	2,500	575	487,025
TOTALS	2,500			5,908,525

The total amount of land to be irrigated in the residential area is 5,908,525 square feet or 135.64 Acres. The in-house domestic Average Day Domestic Demand is anticipated to be 85 gallons per day per capita. Table 3.2 establishes the Average Day Demand including outside irrigation based upon an ultimate population of 7,000 people and precipitation data supplied by NOAA Climatological Data, Colorado Springs station, Colorado.

TABLE 3.2

AVERAGE DAY WATER DEMANDS

ULTIMATE DEVELOPMENT

Month	Growing Days	Avg. Precip ¹ In/Mo	Irrig'n Water Req'd ² In/Mo	Net Irrig'n Water Req'd ³ Ac-Ft/Mo	Average Domestic Demand Ac-Ft/Mo	Total Domestic Demand Ac-Ft/Mo	Total Demand Ac-Ft/Mo	Gal. Per Capita Per Day
Jan.	0	0.31	0	0	55.5	55.5	55.5	85.0
Feb.	0	0.34	0	0	55.5	55.5	55.5	85.0
Mar.	0	0.77	0	0	55.5	55.5	55.5	85.0
Apr.	14	1.45	2.0	6.22	55.5	61.72	61.72	94.52
May	31	2.12	4.3	24.64	55.5	80.14	80.14	122.73
June	30	2.31	4.3	22.49	55.5	77.99	77.99	119.44
July	31	3.10	4.3	13.56	55.5	69.06	69.06	105.76
Aug.	31	2.58	4.3	19.44	55.5	74.94	74.94	114.77
Sept.	30	1.11	4.3	36.06	55.5	91.56	91.56	140.22
Oct.	21	0.92	2.9	22.38	55.5	77.88	77.88	119.27
Nov.	0	0.45	0	0	55.5	55.5	55.5	85.0
Dec.	0	0.27	0	0	55.5	55.5	55.5	85.0
AVERAGE TOTAL						67.57 810.79	67.57 810.79	103.48

1 Source: NOAA Climatological Data, Colorado Springs Station. Normal Precipitation thru 1978

2. $\frac{\text{One Inch}}{\text{Week}} \times \frac{(4.3 \text{ Weeks})}{(\text{Month})} \times \frac{(\text{No. of Gr. Days})}{(30.4 \text{ days})}$

3 Net irrigation water required (ac-ft/mo) = $\frac{\text{Irrig water req'd-avg Precip (135.64)}}{12}$

4. 85 GAL/Capita-Day = 55.5 Ac-ft/Mo

For the purpose of this report the Average Day Water Demand in gallons per capita per day is estimated to be 100.

The following demands are used to determine the required sizes of the water facilities to be constructed.

- 1) Well Capacities: Maximum Day Demand
- 2) Line Sizes: Maximum Hour Demand (Maximum Velocity - 5 f.p.s.)
- 3) Storage Requirement: 24 Hours of Maximum Day Demand Plus Fire Flow
- 4) Pumping Requirements: Maximum Hour Demand plus Fire Flow

Shown below in Table 3.3 are the figures used in this Service Plan for computing the Average Day, Maximum Day and Maximum Hour water demands.

TABLE 3.3
WATER DEMAND CRITERIA

TYPE OF DEVELOPMENT	AVERAGE DAY DEMAND	MAXIMUM DAY DEMAND	MAXIMUM HOUR DEMAND
1. Residential ¹	100 G/D/C	400 G/D/C	600 G/D/C
2. Schools	25 G/D/C	62 G/D/C	78 G/D/C
3. Community Center	25 G/D/C	62 G/D/C	78 G/D/C

1. The Average Day Demand is as established in Table 3.2, while the Maximum Day Demand is 4 (Average Day Demand) and the Maximum Hour Demand is 6 (Average Day Demand).

3.3 WATER DEMANDS - ULTIMATE DEVELOPMENT

This portion of the Service Plan develops the water demand at ultimate development for the District using data contained in Tables 2.1 and 3.3.

Table 3.4 shows the calculations for determining the ultimate water demand for the residential areas, and Table 3.5 shows the school and community center areas.

TABLE 3.4
RESIDENTIAL WATER DEMAND
ULTIMATE DEVELOPMENT

TYPE OF DEVELOPMENT	Projected Population	Average Day Demand (GPM)	Maximum Day Demand (GPM)	Maximum Hour Demand (GPM)
1. Single Family Detached	4,628	321.39	1,285.56	1,928.33
2. Townhouses	2,372	164.72	658.89	988.33
TOTALS	7,000	486.11	1,944.45	2,916.66

TABLE 3.5
SCHOOL AND COMMUNITY CENTER WATER DEMANDS
ULTIMATE DEVELOPMENT

TYPE OF DEVELOPMENT	Gross Acres	Average Day Demand (GPM)	Maximum Day Demand (GPM)	Maximum Hour Demand (GPM)
1. Schools ¹	45	41.67	103.33	130.00
2. Community Center ²	16	0.43	1.08	1.35
TOTALS	61	42.10	104.41	131.35

1. The anticipated capacity of the 2-10 acre Grammar School sites is 1200 students and the 25 acre Junior High School is 1200 students, as per Douglas County requirements, for a total student enrollment of 2,400 at ultimate development.
2. The maximum capacity of the Community Center is anticipated to be 25.

3.4 REQUIRED FIRE FLOW

As previously mentioned, fire protection shall be supplied by the Parker Fire Protection District utilizing the facilities constructed by the District and the Stonegate Center Metropolitan District.

An estimate of the fire flow required for a given fire area is determined by the following formula, as established by the Insurance Services Office:

$$F = 18C(A)^{0.5}$$

Where F = the required fire flow in g.p.m.

C = Coefficient related to the type of construction:

C = 1.5 for wood frame construction

= 1.0 for ordinary construction

= 0.8 for non-combustible construction

= 0.6 for fire-resistive construction

A = The total floor area including all stories, but excluding basements, in the building being considered.

For the purposes of this report the following values were used for:

1. Single Family Detached: C = 1.5

A = 3100 S.F.

2. Townhouses: $C = 1.5$

$A = 10,000$ S.F. (Based on 10 houses per
unit at 1,000 S.F. each)

Therefore, utilizing the above formula and figures, the required fire flow for the District will be:

1. Single Family Detached: $\text{Fire Flow} = 18C(A)^{0.5}$
 $= 18(1.5)(3100)^{0.5}$
 $= 1503.3$ g.p.m.
 $= 1500$ g.p.m.

2. Townhouses: $\text{Fire Flow} = 18C(A)^{0.5}$
 $= 18(1.5)(10,000)^{0.5}$
 $= 2700$ g.p.m.

Since the District's water source will be supplied through facilities of the Stonegate Center Metropolitan District a total fire flow of 4000 g.p.m., which is required for the Stonegate Center development, will be available.

3.5 SUMMARY OF WATER DEMANDS

The information contained in Table 3.6 shows the projected ultimate water demands for the District in Gallons Per Day.

TABLE 3.6

ULTIMATE WATER DEMANDS

TYPE OF DEVELOPMENT	Average Day Demand	Maximum Day Demand	Maximum Hour Demand
	(GPD)	(GPD)	(GPD)
1. Residential			
a. Single	462,800	1,851,200	2,776,800
b. Townhouses	237,200	948,800	1,423,200
Sub Total	700,000	2,800,000	4,200,000
2. Other			
a. Schools	60,000	148,800	187,200
b. Community Center	625	1,550	1,950
Sub Total	60,625	150,350	189,150
TOTAL	760,625	2,950,350	4,389,150

In addition to the above demands an additional 405,000 gallons per day will be required to meet the District's fire flow requirements of 2,700 g.p.m. for 2.5 hours. As stated previously a total of 960,000 gallons per day will be available to meet the fire flow demand of 4,000 gpm for 4 hours for the Stonegate Center Metropolitan District.

3.6 WATER AVAILABILITY

Water for the District shall be supplied from 25 deep wells of which 15 are located within the boundaries of the Stonegate Center Metropolitan District and 10 within the boundaries of the District. Since all the wells shall be developed, owned and maintained by the Stonegate Center Metropolitan District, easements shall be granted to Stonegate Center Metropolitan District for access to the wells. Table 3.7 lists each aquifer and the water available annually. The figures shown in Table 3.7 have been calculated using Senate Bill 213 criteria.

TABLE 3.7
AVAILABILITY OF WATER

AQUIFER	NUMBER OF WELLS	DEPTH TO BASE (feet)	SAND THICKNESS (feet)	SPECIFIC YIELD	WATER AVAIL. ANN/AQUIFER Ac/Ft	GPM
1. Dawson	6	600	150	0.15	330	205
2. Denver	8	1200	80	0.10	150	93
3. Arapahoe	7	1800	290	0.15	1393 (1266)*	786
4. Laramie-Fox Hills	4	2300	175	0.125	360	224
TOTALS	25				2245 (2106)**	1308

* Amount of water available in Arapahoe aquifer is affected by two Arapahoe wells Well No. 1 (17693-F) located within the District's boundaries, and Well No. 13 (17691-F) located within the boundaries of the Stonegate Center Metropolitan District.

** Estimated amount of water that can be developed legally and economically.

The total number of acre feet of water which may be utilized from the wells in accordance with the Colorado Division of Water Resources conditions of well approvals is 2106 acre feet (1308 gpm).

Table 3.8 converts the demands shown in Table 3.6 into acre feet usage per year for the District.

TABLE 3.8
ACRE FEET USAGE PER YEAR
ULTIMATE DEVELOPMENT

TYPE OF DEVELOPMENT	AVERAGE DAY DEMAND AcFt/Yr	MAXIMUM DAY DEMAND AcFt/Yr	MAXIMUM HOUR DEMAND AcFt/Yr
1. Residential	783.55	3,134.20	4,701.30
2. Other	67.86	168.30	211.73
TOTALS	851.41	3,302.50	4,913.03

In addition to the figures shown in Table 3.8, the Stonegate Center Metropolitan District will be using an annual demand of 736.93 AcFt/Yr for Average Day Demand, 1105.40 AcFt/Yr

for Maximum Day Demand, and 2289.18 AcFt/Yr for Maximum Hour Demand as established in Table 3.5 of its Service Plan.

Therefore, the water requirements for the District would be 851.41 acre feet per year and including the demand from the Stonegate Center Metropolitan District, 736.93 acre feet per year, would amount to a total of 1588.34 acre feet per year, which is within the range of the 2106 acre feet per year permitted. Of course, should the watering restrictions be changed, the water usage would increase.

3.7 PROPOSED WELL FACILITIES

The information contained in Table 3.9 pertains to the proposed well facilities that is anticipated for utilization at ultimate development. As previously mentioned, all of the wells listed and the raw water transmission network shall be installed, owned and maintained by the Stonegate Center Metropolitan District.

TABLE 3.9
PROPOSED WELL FACILITIES

Well No.	Designation/ Permit No.	Aquifer	Prop. Max. Pumping Rate (GPM) (Conditional)	AC FT AN.	District Location
1	17693 F**	Arapahoe		600	Village Metro
2	LFH1-24914-F	Laramie/FH	150	150	Village Metro
3	TKD 14	Denver	100	40	Village Metro
4	TOW-6	Dawson	100	125	Village Metro
5	KA-18	Arapahoe	500	80	Village Metro
6	TDW-5	Dawson	100	125	Village Metro
7	TKD-13	Denver	100	40	Village Metro
8	LFH324913-F	Laramie/FH	150	50	Village Metro
9	TDW-3*	Dawson	100	75	Village Metro
10	TKD-11	Denver	100	40	Village Metro
11	KA19	Arapahoe	500	180	Center Metro
12	LFH424915-F	Laramie/FH	150	50	Center Metro
13	17691-F	Arapahoe		345	Center Metro
14	LFH2-24912-F**	Laramie/FH	150	150	Center Metro
15	KA-16	Arapahoe	500	80	Center Metro
16	TKD-10	Denver	100	40	Center Metro
17	KA-17	Arapahoe	500	80	Center Metro
18	TKD-12	Denver	100	40	Center Metro
19	TDW-4	Dawson	100	125	Center Metro
20	TDW-1*	Dawson	100	75	Center Metro
21	TKO-7	Denver	100	40	Center Metro
22	TKD-9	Denver	100	40	Center Metro
23	KA-15	Arapahoe	500	80	Center Metro
24	TDW-2*	Dawson	100	75	Center Metro
25	TKD-8	Denver	100	40	Center Metro

* Application for permit withdrawn - will reapply if necessary

** To be determined by field testing

3.8 ULTIMATE WELL PUMPING REQUIREMENTS

Table 3.10 shows the ultimate well pumping requirements for the District at ultimate development using the criteria established for Maximum Day Demand.

TABLE 3.10
ULTIMATE WELL PUMPING REQUIREMENTS

TYPE OF DEVELOPMENT	MAXIMUM DAY DEMAND (GPM)
1. Residential	1,944.45
2. Other	104.41
TOTAL	2,048.86

In addition to the 2,048.86 gpm required for the District, an additional 685.78 gpm will be required for meeting the Maximum Day Demand for the Stonegate Center Metropolitan District for a total well pumping requirement of 2,734.64 gpm to serve both Districts at ultimate development.

Although the wells and raw water network shall be installed, owned and maintained by the Stonegate Center Metropolitan District, the District shall participate in the construction cost of these facilities as established in Section 3.12 - Computation of Construction Costs.

3.9 ULTIMATE STORAGE REQUIREMENTS

Table 3.11 shows the total storage requirement for the District at ultimate development using the criteria established for Maximum Day Demand flow plus fire flow for 2.5 hours.

TABLE 3.11
ULTIMATE STORAGE REQUIREMENTS

TYPE OF DEVELOPMENT	MAXIMUM DAY DEMAND (GPD)
1. Residential	2,800,000
2. Other	150,350
SUBTOTAL	<u>2,950,350</u>
3. Fire Flow: 2700 gpm for 2.5 hours	405,000
TOTAL	3,355,350

In addition to the 2,950,350 gallon storage requirement for the District (less fire flow), an additional 1,947,525 gallons of storage will be required for meeting the Maximum Day Demand plus fire flow (4000 gpm for 4.0 hours) for the Stonegate Center Metropolitan District for a total storage requirement of 4,897,875 gallons to serve both Districts.

Table 3.23 shows the required storage per phased construction of the District.

Although the storage tank and chlorine contact chamber shall be installed, owned and maintained by the Stonegate Center Metropolitan District, the District shall participate in the construction costs of these facilities as established in Section 3.12 - Computation of Construction Costs.

3.10 ULTIMATE BOOSTER PUMP STATION REQUIREMENTS

Table 3.12 shows the Booster Pump Station requirements for the District at ultimate development using the criteria established for Maximum Hour Demand plus Fire Flow.

TABLE 3.12
ULTIMATE BOOSTER PUMP STATION REQUIREMENTS

TYPE OF DEVELOPMENT	MAXIMUM HOUR DEMAND (GPM)
1. Residential	2,916.66
2. Other	131.35
SUBTOTAL	<u>3,048.01</u>
3. Fire Flow	2,700.00
TOTAL	5,748.01

In addition to the 3,048.01 gpm pumping requirement for the District (less fire flow), an additional 5,420.19 gpm of pumping will be required for meeting the maximum hour demand plus fire flow for the Stonegate Center Metropolitan District for a total pumping requirement of 8,468.20 gpm to serve both Districts. Table 3.19 shows the required Booster Pump Station pumping per phased construction of the District.

Although the Booster Pump Station shall be installed, owned and maintained by the Stonegate Center Metropolitan District, the District shall participate in the construction costs of these facilities as established in Section 3.12 - Computation of Construction Costs.

3.11 CONSTRUCTION PHASING

This section describes the water facility phasing program from the year 1983-84 through 1992. All proposed water facilities shall be installed and operational by 1988.

Table 3.13 through 3.19 presents the anticipated Phasing plan for the District considering the units population water demands, well pumping requirements, storage requirements and Booster Pump Station requirements per phase. Each phase is shown on Exhibit "B" - Overall Master Water Plan.

TABLE 3.13
CONSTRUCTION PHASING
AREA TO BE SERVED

Phase	Year	Residential				Community Center (Acres)	Public Dedicat- ion (Acres)
		S.F. Detached (Units)	Detached O-Lots (Units)	Townhouses (Units)	Total Units		
1	1983-84	260	-0-	-0-	260	16	10
2	1985	243	-0-	-0-	243	-0-	-0-
3	1986	239	-0-	-0-	239	-0-	25
4	1987	185	-0-	100	285	-0-	-0-
5	1988	155	-0-	149	304	-0-	-0-
6	1989	105	112	78	295	-0-	-0-
7	1990	102	-0-	194	296	-0-	10
8	1991	126	126	44	296	-0-	-0-
9	1992	-0-	-0-	282	282	-0-	-0-
TOTALS		1415	847	238	2500	16	45

TABLE 3.14

RESIDENTIAL WATER DEMANDS
PHASED CONSTRUCTION

			NUMBER OF DWELLING UNITS		POPULATION		AVE. DAY DEMAND GPM		MAX DAY DEMAND GPM		MAX HOUR DEMAND GPM	
PHASE	YEAR	UNIT TYPE	PHASE	ACCUM	PHASE	ACCUM	PHASE	ACCUM	PHASE	ACCUM	PHASE	ACCUM
1	1983											
	-84	SF	260	260	728	728	51	51	202	202	303	303
2	1985	SF	243	503	680	1,408	47	98	189	391	283	586
3	1986	SF	239	742	670	2,078	46	144	186	577	280	866
4	1987	SF/TH	285	1,027	798	2,878	56	200	223	800	333	1199
5	1988	SF/TH	304	1,331	851	3,727	59	259	236	1036	355	1554
6	1989	SF/ZL										
		TH	295	1,626	826	4,553	57	316	229	1265	344	1898
7	1990	SF/TH	296	1,922	829	5,382	58	374	230	1495	345	2243
8	1991	SF/ZL										
		TH	296	2,218	829	6,211	58	431	230	1725	345	2588
9	1992	TH	282	2,500	789	7,000	54	486	219	1944	329	2917

The above demands indicate what demands are anticipated per phase when full occupancy for each phase has been reached. Full occupancy per phase is anticipated to be reached approximately 18 months following the installation of the water facilities for that particular phase.

TABLE 3.15

OTHER WATER DEMANDS

PHASED CONSTRUCTION

			AREA (ACRES)		AVE. DAY DEMAND GPM		MAX DAY DEMAND GPM		MAX HOUR DEMAND GPM	
PHASE	YEAR	TYPE OF DEVELOPMENT	PHASE	ACCUM	PHASE	ACCUM	PHASE	ACCUM	PHASE	ACCUM
1	1983	Community Cntr	16	16	0.4	0.4	1.1	1.1	1.4	1.4
	-84	Grammar School	10	26	10.4	10.8	25.8	26.9	32.5	33.9
2	1985		0	26	0	10.8	0	26.9	0	33.9
3	1986	Jr High School	25	51	20.8	31.6	51.7	78.6	65	98.9
4	1987		0	51	0	31.6	0	78.6	0	98.9
5	1988		0	51	0	31.6	0	78.6	0	98.9
6	1989		0	51	0	31.6	0	78.6	0	98.9
7	1990	Grammar School	10	61	10.4	42	25.8	104.4	32.5	131.4
8	1991		0	61	0	42	0	104.4	0	131.4
9	1992		0	61	0	42	0	104.4	0	131.4

TABLE 3.16
TOTAL WATER DEMANDS
PHASED CONSTRUCTION

PHASE	YEAR	RESIDENTIAL						OTHER						TOTALS					
		Avg. Day Demand-GPM		Max. Day Demand-GPM		Max. Hour Demand-GPM		Avg. Day Demand-GPM		Max. Day Demand-GPM		Max. Hour Demand-GPM		Avg. Day Demand-GPM		Max. Day Demand-GPM		Max. Hour Demand-GPM	
		Phase	Accum	Phase	Accum	Phase	Accum	Phase	Accum	Phase	Accum	Phase	Accum	Phase	Accum	Phase	Accum	Phase	Accum
1	1983-84	51	51	202	202	303	303	11	11	27	27	34	34	62	62	229	229	337	337
2	1985	47	98	189	391	283	586	0	11	0	27	0	34	109	47	189	418	283	620
3	1986	46	144	186	577	280	866	21	32	52	79	65	99	176	67	238	656	345	965
4	1987	56	200	223	800	333	1199	0	32	0	79	0	99	232	56	223	879	333	1298
5	1988	59	259	236	1036	355	1554	0	32	0	79	0	99	291	59	236	1115	355	1653
6	1989	57	316	229	1265	344	1898	0	32	0	79	0	99	348	57	229	1344	344	1997
7	1990	58	374	230	1495	345	2243	10	42	25	104	32	131	416	68	255	1599	377	2374
8	1991	58	432	230	1725	345	2588	0	42	0	104	0	131	474	58	230	1829	345	2719
9	1992	54	486	219	1944	329	2917	0	42	0	104	0	131	528	54	219	2048	329	3048

TABLE 3.17

WELL PUMPING REQUIREMENTS
PHASED CONSTRUCTION

PHASE	YEAR	RESIDENTIAL MAX. DAY DEMAND-GPM		OTHER MAX. DAY DEMAND-GPM		WELL PUMPING REQUIREMENTS MAX. DAY DEMAND-GPM		ADDITIONAL PUMPING REQUIRED GPM
		PHASE	ACCUM	PHASE	ACCUM	PHASE	ACCUM	
1	1983 -84	202	202	27	27	229	229	
2	1985	189	391	0	27	189	418	189
3	1986	186	577	52	79	238	656	238
4	1987	223	800	0	79	223	879	223
5	1988	236	1036	0	79	236	1115	236
6	1989	229	1265	0	79	229	1344	229
7	1990	220	1495	25	104	255	1599	255
8	1991	230	1725	0	104	230	1829	230
9	1992	219	1944	0	104	219	2048	219

TABLE 3.18

STORAGE REQUIREMENTS
PHASED CONSTRUCTION

		RESIDENTIAL MAX. DAY DEMAND-GPD		OTHER MAX. DAY DEMAND-GPD		FIRE FLOW *		TOTAL STORAGE REQUIREMENT GPD	
PHASE	YEAR	PHASE	ACCUM	PHASE	ACCUM	PHASE	ACCUM	PHASE	ACCUM
1	1983								
	-84	291200	291200	38750	38750	180000	180000	509950	509950
2	1985	272000	563200	-0-	38750		180000	272000	781950
3	1986	268000	831200	74400	113150		180000	342400	1124350
4	1987	319200	1150400	-0-	113150	405000	405000	319200	1668550
5	1988	340400	1490800	-0-	113150		405000	340400	2008950
6	1989	330400	1821200	-0-	113150		405000	330400	2339350
7	1990	331600	2152800	37200	150350		405000	368800	2708150
8	1991	331600	2484400	-0-	150350		405000	331600	3039750
9	1992	315600	2800000	-0-	150350		405000	315600	3355350

* Fire Flow for Phases 1-3 is based on 1500 gpm for 2 hours and for Phases 4-9 is based on 2700 gpm for 2.5 hours.

TABLE 3.19

BOOSTER PUMP STATION REQUIREMENTS
PHASED CONSTRUCTION

		RESIDENTIAL MAX. HOUR DEMAND-GPM		OTHER MAX. HOUR DEMAND-GPM		FIRE FLOW * GPM	TOTAL PUMPING REQUIREMENTS GPM	
PHASE	YEAR	PHASE	ACCUM	PHASE	ACCUM		PHASE	ACCUM
1	1983							
	-84	303	303	34	34	1500	1837	1837
2	1985	283	586	-0-	34		283	2120
3	1986	280	866	65	99		345	2465
4	1987	333	1199	-0-	99	2700	1533	3998
5	1988	355	1554	-0-	99		355	4353
6	1989	344	1898	-0-	99		344	4697
7	1990	345	2243	32	131		377	5074
8	1991	345	2588	-0-	131		345	5419
9	1992	329	2917	-0-	131		329	5748

* Fire Flow for Phases 1-3 is based on 1500 gpm and for Phases 4-9 is based on 2700 gpm

3.12 COMPUTATION OF CONSTRUCTION COSTS

This section computes the construction costs for the installation of a complete water system. The costs shown are based on 1981 figures and the quantities shown on Exhibit "B" Overall Master Water Plan.

Table 3.20 computes the costs for the installation of the transmission system and the interior distribution system. The interior distribution system shall be paid for by individual developers and shall not be a District cost.

**TABLE 3.20
WATER MAIN DISTRIBUTION SYSTEM
CONSTRUCTION COST**

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
A	<u>TRANSMISSION SYSTEM</u>				
1.	12" D.I.P. Water Main	8950	LF	15.67	\$ 140,246.50
2.	12" Gate Valve & Box	22	EA	825.00	18,150.00
3.	Fire Hydrant Assembly	18	EA	1,500.00	<u>27,000.00</u>
	SubTotal				\$ 185,396.50
	28% Engineering and Contingencies				<u>51,911.02</u>
					\$ 237,307.52
B	<u>INTERIOR DISTRIBUTION SYSTEM</u> (In Tract)				
1.	6" P.V.C. Water Main	17,130	LF	8.34	\$142,864.20
2.	8" P.V.C. Water Main	43,090	LF	10.39	447,705.10
3.	6" Gate Valve & Box	61	EA	330.00	20,130.00
4.	8" Gate Valve & Box	127	EA	475.00	60,325.00
5.	Fire Hydrant Assembly	123	EA	1,500.00	<u>184,500.00</u>
	SubTotal				\$ 855,524.30
	28% Engineering and Contingencies				<u>239,546.80</u>
					\$1,095,071.10
C	Water Services Laterials (40 ft/Unit)	2,500	EA	272.55	\$681,375.00
	TOTALS				\$2,013,753.62

Table 3.21 computes the cost of the District for the construction of the Regional Water Facilities such as wells, raw water network, storage tanks, chlorine contact chambers and Booster Pump Station. A breakdown of the anticipated costs for these facilities are shown in Table 3.22 through Table 3.24.

TABLE 3.21
DISTRICT COST OF REGIONAL FACILITIES

DESCRIPTION	TOTAL CONSTRUCTION COST	DISTRICT COST
1. Drilling of New Wells	\$2,265,680.00 *	\$1,085,520.00*
2. Well Houses, Pumps, Controls	542,720.00	230,656.00
3. Raw Water Transmission Network	556,965.00	390,045.00
4. Storage Tanks	1,568,000.00	832,000.00
5. Chlorine Contact Chambers	51,200.00	51,200.00
6. Booster Pump Stations	740,110.00	693,580.00
7. 16" Dist. System	685,898.00	685,898.00
8. Other Regional Water Facilities	1,202,623.00	767,293.00
TOTALS	\$ 7,613,196.00	\$4,736,192.00

* Includes \$210,000.00 for wells drilled in 1981.

TABLE 3.22
WELL CONSTRUCTION COSTS

AQUIFER	NO. OF NEW WELLS	COST PER WELL	TOTAL COST
SECTION A			
<u>Drilling of New Wells</u>			
Arapahoe	5	110,000.00	\$ 550,000.00
Dawson	6	40,000.00	240,000.00
Denver	8	67,000.00	536,000.00
Laramie-F.H.	<u>2</u>	140,000.00	<u>280,000.00</u>
SubTotal	21		\$ 1,606,000.00
28% Engineering and Contingencies			449,680.00
			<u>\$ 2,055,680.00</u>
SECTION B			
<u>Well Houses, Pumps and Controls</u>			
Arapahoe	7	17,800.00	\$ 124,600.00
Dawson	6	12,500.00	75,000.00
Denver	8	14,100.00	112,800.00
Laramie-F.H.	<u>4</u>	27,900.00	<u>111,600.00</u>
SubTotal	25		\$ 424,000.00
28% Engineering and Contingencies			118,720.00
			<u>\$ 542,720.00</u>
WELL CONSTRUCTION COSTS WELLS DRILLED IN 1981			\$ 2,598,400.00
			<u>210,000.00</u>
TOTAL WELL CONSTRUCTION COSTS			\$2,808,400.00

**TABLE 3.23
RAW WATER MAIN NETWORK
CONSTRUCTION COST**

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
1.	4" PVC Water Main	2920	LF	5.70	\$16,644.00
2.	6" PVC Water Main	8380	LF	6.90	57,822.00
3.	8" PVC Water Main	14290	LF	9.25	132,182.50
4.	10" PVC Water Main	10280	LF	10.25	105,370.00
5.	12" PVC Water Main	6100	LF	14.00	85,400.00
6.	16" Water Main	550	LF	18.11	9,960.50
7.	4" Gate Valve & Box	10	EA	175.00	1,750.00
8.	6" Gate Valve & Box	14	EA	300.00	4,200.00
9.	8" Gate Valve & Box	17	EA	400.00	6,800.00
10.	10" Gate Valve & Box	12	EA	500.00	6,000.00
11.	12" Gate Valve & Box	12	EA	750.00	9,000.00
	Subtotal				\$435,129.00
	28% Engineering and Contingencies				121,836.12
	TOTAL				<u>\$556,965.12</u>

It is noted that the sizes shown above are based on the anticipated pumping rate, in gpm, of each of the 25 wells and may change once the wells have been field tested.

TABLE 3.24
STORAGE TANKS, CHLORINE CONTACT CHAMBER
AND BOOSTER PUMP STATION
CONSTRUCTION COST

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
1.	2.6 MG Storage Tank	1	EA	\$650,000.00	\$650,000.00
2.	2.3 MG Storage Tank	1	EA	575,000.00	575,000.00
3.	Chlorine Contact Chamber	LS	LF LS	40,000.00	40,000.00
4.	Booster Pump Station				
a.	Pumps, with Power	8468	GPM	37.55	\$318,000.00
b.	Pump Station Vault	LS	LS	45,000.00	45,000.00
c.	Interior Piping	LS	LS	30,000.00	30,000.00
d.	Electrical System	LS	LS	30,000.00	30,000.00
e.	Standby Power	LS	LS	90,000.00	90,000.00
f.	Master Controls	LS	LS	65,000.00	<u>65,000.00</u>
	Subtotal				\$1,843,000.00
	28% Engineering and Contingencies				<u>516,310.00</u>
	TOTAL				\$2,359,310.00

Table 3.25 summarizes the anticipated construction cost to install a complete water system capable of serving the District's Ultimate Water Demands.

TABLE 3.25
SUMMARY OF WATER FACILITIES
CONSTRUCTION COST

ITEM	DESCRIPTION	TOTAL COST *
1.	Major Water Facilities (Participation)	\$4,736,192.00
2.	In-Tract Distribution System	1,095,071.00
3.	Water Services	<u>681,375.00</u>
	Total Water System Cost	\$6,512,638.00
	Less In-Tract Facilities	<u><1,776,446.00></u>
	TOTAL COST TO DISTRICT	\$4,736,192.00

* Includes 28% Contingencies

3.13 PRELIMINARY COST ESTIMATE TO DEVELOP A WATER SYSTEM

This section presents a general summary of the total construction and engineering costs to develop a complete water system for the District. Table 3.26 has been prepared to bring together all the water construction costs set forth in this report and to make allowances for contingencies and engineering fees. It should be noted that these are construction costs only and that consideration should be given to the periodical costs mentioned in Section 6.2, such as maintenance and periodic operating expenses.

Also construction and material costs are increasing rapidly. The increases are sporadic and are not necessarily tied to any easily determined indicator. Therefore, the costs shown below are based on 1981 figures.

TABLE 3.26
TOTAL COST FOR THE INSTALLATION OF
A COMPLETE WATER SYSTEM

1.	Water System Construction Cost	\$3,700,150.00
2.	15% Contingencies	555,023.00
3.	13% Engineering, Survey, Inspection	<u>481,019.00</u>
	Subtotal	
	TOTAL	\$4,736,192.00

3.14 PHASED CONSTRUCTION COST

Table 3.27 outlines and computes the anticipated water main cost per phase based upon 1981 construction costs and quantities shown on Exhibit "B" - Overall Master Water Plan and which is summarized in Table 3.20 Water Main Distribution System Construction Costs.

TABLE 3.27
PHASED CONSTRUCTION COSTS
WATER MAIN
(IN-TRACT)

PHASE	ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST	
Phase 1 (Single Family)	1	6" PVC Water Main	4010	LF	\$ 8.34	\$ 33,443.40	
	2	8" PVC Water Main	7000	LF	10.39	72,730.00	
	3	6" Gate Valve	12	EA	330.00	3,960.00	
	4	8" Gate Valve	24	EA	475.00	11,400.00	
	5	Fire Hydrant Assembly	22	EA	1,500.00	33,000.00	
			SUBTOTAL				\$154,533.40
			15% Contingency				23,180.01
		TOTAL				<u>\$177,713.41</u>	
Phase 2 (Single Family)	1	6" PVC Water Main	1290	LF	\$ 8.34	\$10,748.60	
	2	8" PVC Water Main	9670	LF	10.39	100,471.30	
	3	6" Gate Valve	6	EA	330.00	1,980.00	
	4	8" Gate Valve	21	EA	475.00	9,975.00	
	5	Fire Hydrant Assembly	22	EA	1,500.00	33,000.00	
			SUBTOTAL				\$156,184.90
			15% Contingency				\$ 23,427.74
		TOTAL				<u>\$179,612.64</u>	

TABLE 3.27 (cont'd)
 PHASED CONSTRUCTION COSTS
 WATER MAIN
 (IN-TRACT)

PHASE	ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
Phase 3 (Single Family)	1	6" PVC Water Main	2110	LF	\$ 8.34	\$17,597.40
	2	8" PVC Water Main	5000	LF	10.39	51,950.00
	3	6" Gate Valve	7	EA	330.00	2,310.00
	4	8" Gate Valve	14	EA	475.00	6,650.00
	5	Fire Hydrant Assembly	15	EA	1,500.00	22,500.00
		SUBTOTAL				\$101,007.40
		15% Contingency				15,151.11
		TOTAL				<u>\$116,158.51</u>
Phase 4 (Single Family)	1	6" PVC Water Main	2630	LF	\$ 8.34	\$ 21,934.20
	2	8" PVC Water Main	2900	LF	10.39	30,131.00
	3	6" Gate Valve	9	EA	330.00	2,970.00
	4	8" Gate Valve	12	EA	475.00	5,700.00
	5	Fire Hydrant Assembly	12	EA	1,500.00	18,000.00
		SUBTOTAL				\$78,735.20
		15% Contingency				11,810.28
		TOTAL				<u>\$90,545.48</u>
Phase 4 (Town-houses)	1	8" PVC Water Main	850	LF	\$ 10.39	\$8,831.50
	2	8" Gate Valve	4	EA	475.00	1,900.00
	3	Fire Hydrant	3	EA	1,500.00	4,500.00
		SUBTOTAL				15,231.50
		15% Contingency				\$2,284.73
		TOTAL				<u>\$17,516.23</u>
Phase 5 (Single Family)	1	6" PVC Water Main	1940	LF	\$ 8.34	\$ 16,179.60
	2	8" PVC Water Main	4180	LF	10.39	43,430.20
	3	6" Gate Valve	8	EA	330.00	2,640.00
	4	8" Gate Valve	10	EA	475.00	4,750.00
	5	Fire Hydrant Assembly	12	EA	1,500.00	18,000.00
		SUBTOTAL				\$ 84,999.80
		15% Contingency				12,749.97
		TOTAL				<u>\$97,749.77</u>

TABLE 3.27 (cont'd)
PHASED CONSTRUCTION COSTS
WATER MAIN
(IN-TRACT)

PHASE	ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
Phase 5 (Town-houses)	1	8" PVC Water Main	580	LF	\$ 10.39	\$ 6,026.20
	2	8" Gate Valve	2	EA	475.00	950.00
	3	Fire Hydrant	1	EA	1,500.00	<u>1,500.00</u>
		SUBTOTAL				\$ 8,476.20
		15% Contingency				<u>\$ 1,271.43</u>
		TOTAL				<u>\$ 9,747.63</u>
Phase 6 (Single Family)	1	6" PVC Water Main	1230	LF	\$ 8.34	\$ 10,258.20
	2	8" PVC Water Main	1790	LF	10.39	18,598.10
	3	6" Gate Valve	4	EA	330.00	1,320.00
	4	8" Gate Valve	6	EA	475.00	2,850.00
	5	Fire Hydrant Assembly	6	EA	1,500.00	<u>9,000.00</u>
		SUBTOTAL				\$ 42,026.30
	15% Contingency				<u>\$ 6,303.95</u>	
	TOTAL				<u>\$ 48,330.25</u>	
Phase 6 (Town-houses)	1	8" PVC Water Main	580	LF	\$10.39	\$ 6,026.20
	2	8" Gate Valve	2	EA	475.00	950.00
	3	Fire Hydrant Assembly	1	EA	1,500.00	<u>1,500.00</u>
		SUBTOTAL				\$ 8,476.20
		15% Contingency				<u>\$ 1,271.43</u>
		TOTAL				<u>\$ 9,747.63</u>
Phase 6 (Zero Lot)	1	6" PVC Water Main	770	LF	\$ 8.34	\$ 6,421.80
	2	8" PVC Water Main	2350	LF	10.39	24,416.50
	3	6" Gate Valve	3	EA	330.00	990.00
	4	8" Gate Valve	6	EA	475.00	2,850.00
	5	Fire Hydrant Assembly	6	EA	1,500.00	<u>\$ 9,000.00</u>
		SUBTOTAL				\$ 43,678.30
	15% Contingency				<u>\$ 6,551.75</u>	
	TOTAL				<u>\$ 50,230.05</u>	

TABLE 3.27 (cont'd)
PHASED CONSTRUCTION COSTS
WATER MAIN
(IN-TRACT)

PHASE	ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
Phase 7 (Single-Family)	1	6" PVC Water Main	450	LF	\$ 8.34	\$ 3,753.00
	2	8" PVC Water Main	2780	LF	10.39	28,884.20
	3	6" Gate Valve	2	EA	330.00	660.00
	4	8" Gate Valve	7	EA	475.00	3,325.00
	5	Fire Hydrant Assembly	7	EA	1,500.00	10,500.00
			SUBTOTAL			
		15% Contingency				\$ 7,068.33
		TOTAL				\$ 54,190.53
Phase 7 (Town-houses)	1	8" PVC Water Main	580	LF	\$10.39	\$ 6,026.20
	2	8" Gate Valve	2	EA	475.00	950.00
	3	Fire Hydrant Assembly	1	EA	1,500.00	1,500.00
			SUBTOTAL			
		15% Contingency				\$ 1,271.43
		TOTAL				\$ 9,747.63
Phase 8 (Single-Family)	1	6" PVC Water Main	1460	LF	\$ 8.34	\$ 12,176.40
	2	8" PVC Water Main	1400	LF	10.39	14,546.00
	3	6" Gate Valve	5	EA	330.00	1,650.00
	4	8" Gate Valve	7	EA	475.00	3,325.00
	5	Fire Hydrant Assembly	6	EA	1,500.00	9,000.00
			SUBTOTAL			
		15% Contingency				\$ 6,104.61
		TOTAL				\$ 46,802.01
Phase 8 (Town-houses)	1	8" PVC Water Main	580	LF	\$10.39	\$ 6,026.20
	2	8" Gate Valve	2	EA	475.00	950.00
	3	Fire Hydrant Assembly	1	EA	1,500.00	1,500.00
			SUBTOTAL			
		15% Contingency				\$ 1,271.43
		TOTAL				\$ 9,747.63

TABLE 3.27 (cont'd)
 PHASED CONSTRUCTION COSTS
 WATER MAIN
 (IN-TRACT)

PHASE	ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
Phase 8 (Zero Lot)	1	6" PVC Water Main	1240	LF	\$ 8.34	\$ 10,341.60
	2	8" PVC Water Main	1720	LF	10.39	17,870.80
	3	6" Gate Valve	5	EA	330.00	1,650.00
	4	8" Gate Valve	5	EA	475.00	2,375.00
	5	Fire Hydrant Assembly	6	EA	1,500.00	\$ 9,000.00
		SUBTOTAL				\$ 41,237.40
		15% Contingency				\$ 6,185.61
		TOTAL				\$ 47,423.01
Phase 9 (Town-houses)	1	8" PVC Water Main	1130	LF	\$10.39	\$ 11,740.70
	2	8" Gate Valve	3	EA	475.00	1,425.00
	3	Fire Hydrant Assembly	2	EA	1,500.00	3,000.00
		SUBTOTAL				\$ 16,165.70
		15% Contingency				\$ 2,424.86
						\$ 18,590.56

TABLE 3.28
SUMMARY OF IN-TRACT PHASED WATER MAIN CONSTRUCTION COSTS

PHASE	UNITS	CONSTRUCTION COSTS	15% CONTINGENCIES	WATER SERVICE COST	TOTAL COST
Phase 1 (1983-84)	260	154,533.40	23,180.01	70,863.00	248,576.41
Phase 2 (1985)	243	156,184.90	23,427.72	66,229.65	245,842.27
Phase 3 (1986)	239	101,007.40	15,151.11	65,139.45	181,297.96
Phase 4 (1987)	285	93,966.70	14,095.01	77,676.75	185,738.46
Phase 5 (1988)	304	93,476.00	14,021.40	82,855.20	190,352.60
Phase 6 (1989)	295	94,180.80	14,127.13	80,402.25	188,710.18
Phase 7 (1990)	296	55,598.40	8,339.76	80,674.80	144,612.96
Phase 8 (1991)	296	90,411.00	13,561.65	80,674.80	184,647.45
Phase 9 (1992)	282	16,165.70	2,424.86	76,859.10	95,449.66
TOTALS		\$855,524.30	\$128,328.65	\$681,375.00	\$1,665,227.95

Tables 3.29 through 3.31 presents the phased construction costs for the Regional Water Facilities which will be installed at District cost and which are summarized in Table 3.32.

TABLE 3.30
PHASED RAW WATER CONSTRUCTION COSTS

YEAR	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1983	1. 6" Water Main	2940	LF	\$6.90	\$20,286.00
	2. 8" Water Main	1360	LF	9.25	12,580.00
	3. 10" Water Main	1600	LF	10.25	16,400.00
	4. 12" Water Main	3600	LF	14.00	50,400.00
	5. 16" Water Main	550	LF	18.11	9,960.50
	6. 6" Gate Valve	6	EA	300.00	1,800.00
	7. 8" Gate Valve	5	EA	400.00	2,000.00
	8. 10" Gate Valve	3	EA	500.00	1,500.00
	9. 12" Gate Valve	7	EA	750.00	\$ 5,250.00
		Subtotal			
	28% Contingencies				\$33,649.42
	TOTAL				\$153,825.92
1985	1. 4" Water Main	300	LF	\$5.70	\$1,710.00
	2. 6" Water Main	920	LF	6.90	6,348.00
	3. 8" Water Main	160	LF	9.25	1,480.00
	4. 10" Water Main	2840	LF	10.25	29,110.00
	5. 12" Water Main	1900	LF	14.00	26,600.00
	6. 4" Gate Valve	2	EA	175.00	350.00
	7. 6" Gate Valve	3	EA	300.00	900.00
	8. 8" Gate Valve	2	EA	400.00	800.00
	9. 10" Gate Valve	3	EA	500.00	1,500.00
	10. 12" Gate Valve	3	EA	750.00	2,250.00
	Subtotal				\$71,048.00
	28% Contingencies				19,893.44
	TOTAL				\$90,941.44
1987	1. 4" Water Main	560	LF	\$5.70	\$3,192.00
	2. 6" Water Main	160	LF	6.90	1,104.00
	3. 8" Water Main	1200	LF	9.25	11,100.00
	4. 4" Gate Valve	4	EA	175.00	700.00
	5. 6" Gate Valve	1	EA	300.00	300.00
	6. 8" Gate Valve	2	EA	400.00	800.00
	Subtotal				\$17,196.00
	28% Contingencies				4,814.88
	TOTAL				\$22,010.88
1988	1. 6" Water Main	1100	LF	\$6.90	\$7,590.00
	2. 8" Water Main	7450	LF	9.25	68,912.50
	3. 10" Water Main	1600	LF	10.25	16,400.00
	4. 6" Gate Valve	1	EA	300.00	300.00
	5. 8" Gate Valve	4	EA	400.00	1,600.00
	6. 10" Gate Valve	3	EA	500.00	1,500.00
	Subtotal				\$96,302.50
	28% Contingencies				26,964.70
	TOTAL				\$123,267.20

**TABLE 3.31
PHASED BOOSTER PUMP STATION,
STORAGE TANK, CHLORINE CHAMBER
AND DISTRIBUTION COSTS**

YEAR	BOOSTER PUMP STATION	STORAGE TANKS	CHLORINE CHAMBER	REGIONAL WATER DISTRIBUTION SYSTEM	T O T A L S
1982					\$85,061.00*
1983	\$452,970.05	\$832,000.00	\$51,200.00	\$479,137.02	1,730,246.07*
1984					
1985					
1986	120,440.05			75,521.60	195,961.65
1987	120,170.05			217,815.04	337,985.09
1988				150,731.84	150,731.84
TOTALS	\$693,580.15	\$832,000.00	\$512,000.00	\$923,205.50	\$2,499,985.65

* Totals for 1983 equal \$1,815,307.07, of which \$85,061.00 is shown in 1982 as engineering costs.

TABLE 3.32
SUMMARY OF DISTRICT PHASED
WATER CONSTRUCTION COSTS

YEAR	DISTRICT DISTRIBUTION SYSTEM	REGIONAL DISTRIBUTION SYSTEM	DRILLING NEW WELLS	PUMP HOUSE CONTROLS	RAW WATER	STORAGE TANK	CHLORINE CHAMBER	BOOSTER PUMP STATION	TOTALS
1981			\$210,000.00						\$210,000.00
1982									85,061.00*
1983	86,264.00	392,873.00	140,800.00	58,496.00	153,826.00	832,000.00	51,200.00	452,970.00	2,083,368.00*
1984									
1985		105,554.00	277,760.00	56,832.00	90,941.00				531,087.00
1986	75,522.00							120,440.00	195,962.00
1987		464,441.00	277,760.00	56,832.00	22,011.00			120,170.00	941,214.00
1988	75,522.60	253,015.00	179,200.00	58,496.00	123,267.00				689,500.00
TOTALS	\$237,308.00	\$1,215,883.00	\$1,085,520.00	\$230,656.00	\$390,045.00	\$832,000.00	\$51,200.00	\$593,580.00	\$4,736,192.00

* Totals for 1983 equal \$2,168,429.00 of which \$85,061.00 is shown in 1982 as engineering costs.

SECTION 4
PROPOSED SANITARY SEWER COLLECTION
AND OUTFALL SYSTEM

4.1 GENERAL

This section contains information pertaining to the District's proposed sanitary sewer collection system to be constructed in order to transport wastewater to the proposed Jordan Road Outfall Sewer which will be constructed by the Stonegate Center Metropolitan District. The wastewater shall be transported by the Jordan Road Outfall Sewer to a wastewater treatment plant which will also be constructed by the Stonegate Center Metropolitan District for treatment. Through the process of a Land Application procedure effluent from the treatment plant will be used to irrigate all non-residential areas within the District. This method of irrigation shall also be installed, owned and maintained by the Stonegate Center Metropolitan District.

The proposed sanitary sewer system is shown in Exhibit "C" Overall Master Sanitary Sewer Plan.

4.2 GENERAL TOPOGRAPHY

The topography of the District, as shown on Exhibit "C" is cut by numerous drainage areas including Newlin Gulch that flows northeast through the area from the southwest corner of the District. The District varies in elevation from

5795 at the northeast corner of the District to a high elevation of approximately 5945 in the west central portion. The surface slopes range between one and six percent throughout the District with the flatter slopes being in the center area and the steeper slopes generally along the perimeter of the District.

The majority of the area south of West Parker Road and west of Jordan Road may be served by gravity flow utilizing a proposed outfall main which be constructed in Jordan Road, while portions of Phase 5, 6 and 7 (Single-Family) and all of the area east of Jordan Road may be served by gravity to M.H. No. A-6 as shown on Exhibit "D" where it will connect to facilities of the Stonegate Center Metropolitan District and through the use of a sanitary sewer lift station and force main, which will be owned and maintained by the Stonegate Center Metropolitan District will be pumped approximately 2730 LF to the outfall sewer in Jordan Road.

4.3 SANITARY SEWER SYSTEM DESIGN CRITERIA

Table 4.1 shows the criteria used for the determination of the projected wastewater flows and line sizing associated with the collection system within the District. The average day flows are based upon past factual data as established for development of the type and size proposed for the District.

TABLE 4.1
SANITARY SEWER SYSTEM
DESIGN CRITERIA

1.	Residential Average Day Flow	70 gals/day/capita
2.	Commercial Average Day Flow	20 gals/day/capita
3.	Community Center Average Day Flow	20 gals/day/capita
4.	Public Dedicated Areas (Schools) Average Day Flow	20 gal/day/capita
5.	Peaking Factor: Collection Lines	4.0
	: Commercial	1.5
6.	Infiltration/Inflow	100 gpd/inch diam./mile of pipe
7.	Friction Factor (n)	0.013
8.	Minimum Pipe Size/slope	8"/0.4%
9.	Minimum Velocity	2.0 f.p.s.
10.	Maximum Velocity	10.0 f.p.s.

4.4 COMPUTATION OF SANITARY SEWER FLOWS

Table 4.2 through Table 4.6 show the projected average day and peak sanitary sewer flows for the District utilizing information contained in Table 2.1 and Table 4.1. The various junction points, sewer alignment and flows are shown on Exhibit "C" - Overall Master Sanitary Sewer Plan.

TABLE 4.2
COMPUTATION OF PROJECTED SANITARY SEWER FLOWS
LINE "A"

FROM	TO	AREA (ACS)	NO. OF UNITS	POPULATION		AVG. DAY FLOW G.P.D.		PEAK FLOW FACTOR	TOTAL PEAK FLOW G.P.D.		INFILTRATION G.P.D.		TOTAL FLOW G.P.D.		SANITARY SEWER DESIGN PIPE SIZE (IN)		TOTAL FLOW MGD		
				INCR	TOTAL ACCUM	INCR	TOTAL ACCUM		INCR	TOTAL ACCUM	INCR	TOTAL ACCUM	INCR	TOTAL ACCUM	INCR	TOTAL ACCUM	INCR	TOTAL ACCUM	INCR
Phase 5, 6, 7	A-1	39.7	121	339	-	23730	4.0	94920	-	886	-	95806	8"	5850	0.10	-			
Phase 5, A-1	A-2	36.0	112	314	653	21980	4.0	87920	182840	831	1717	88751	8"	5840	0.09	0.18			
A-2	A-3	10 (1)	-	-	-	12000 (1)	4.0	48000	230840	220	1937	48220	8"	1450	0.05	0.23			
A-3	A-4	31.7	465	1302	1955	91140	4.0	364560	595400	298	2235	364858	8"	1970	0.36	0.60			
A-4.1	A-4	25.4	382	1070	-	74900	4.0	299600	-	182	-	299782	8"	1200	0.30	-			
A-4	A-5	4.6 (2)	-	201 (2)	3025	4020 (2)	3.95588	6030 (2)	901030 (2)	106	2523	6136 (2)	10"	560	0.01	0.90			
Phase 6, 8	A-5	39.7	238	666	-	46620	4.0	186480	-	917	-	187897	8"	6050	0.19	-			
A-5	A-6	-	1318	-	3691 (C) 201 (C) 3892 (1)	-	294390 (3)	3.96337	1087510 (3)	136	3576	136	10"	720	-	1.09			

¹Public dedicated areas (Proposed 10 acre school site - 600 pupils @ 20 g/d/c/ = 12000 gpd Average Day Flow)
²See Table 4.3 4020 GPD (ADF) and 6030 GPD (PF) is from commercial area.
³See Table 4.3 4020 GPD (ADF) and 6030 GPD (PF) is from commercial area.

TABLE 4.3
COMPUTATION OF PROJECTED COMMERCIAL SANITARY SEWER FLOWS
LINE "A"

LINE NO. A	COMMERCIAL		POPULATION		AVG. DAY FLOW		PEAK FLOW FACTOR	TOTAL PEAK FLOW G.P.D.		INFILTRATION G.P.D.		TOTAL FLOW G.P.D.		SANITARY SEWER DESIGN PIPE SIZE (IN)	TOTAL FLOW MGD
	AREA (ACS) BLDG SF	OFF WAREHS	INCR	ACCU	INCR	ACCU		INCR	ACCU	INCR	ACCU	INCR	ACCU		
A-4	4.6	50094	168	33	201		4020	(1)	1.5	6030	(1)	6030	(1)		
A-5															

!See Table 4.2

The above flows are generated by areas located within the Stonegate Center Metropolitan District.

TABLE 4.4
COMPUTATION OF PROJECTED SANITARY SEWER FLOWS
LINE "B"

LINE NUMBER	AREA (ACS)	NO. OF UNITS	POPULATION		AVG. DAY FLOW		PEAK FLOW FACTOR	TOTAL PEAK FLOW G.P.D.		INFILTRATION G.P.D.		TOTAL FLOW G.P.D.		SANITARY SEWER DESIGN PIPE SIZE (IN)	LENGTH (FT)	TOTAL FLOW MGD	
			INCR	TOTAL ACCUM	INCR	TOTAL ACCUM		INCR	TOTAL ACCUM	INCR	TOTAL ACCUM	INCR	TOTAL ACCUM				
Phase 1	74.4	260	728	-	50960	-	4.0	203840	-	1708	-	205548	-	8"	11270	0.21	-
Phase 3-4 25 Ac School Site	108.5	424	1187	-	107090 (1)	-	4.0	428360 (1)	-	2168	-	430528 (1)	-	8"	14310	0.43	-
B-2 OmCtr 10 Ac School Site	40.5	50	140	1327	22300 (2)	129390 (1 -2)	4.0	89200	517560	547 26	2741	89773	520301 (2)	10" 8"	2890 170	0.17	0.52
Phase 6,7,8	60.7	256	717	-	50190	-	4.0	200260	-	1632	-	201892	-	8"	10770	0.20	-
B-3	23.0	85	238	2282	16660	196240 (3)	4.0	66640	784960 (3)	246 452	5071	67338	790031 (3)	10" 8"	1300 2980	0.07	0.79
B-1	27.5	99	277	-	27610 (4)	78570 (4)	3.73845	89890 (4)	293730 (4)	614	2322	90504 (4)	296052 (4)	8"	4050	0.09	0.30
B-4	1.8	8	22	3309 411(C) 3720(T)	1540	276350 (5)	3.92564	6160	1084850 (5)	161	7554	6321	1092404 (5)	10"	850	-	1.09

1 Public Dedicated Areas (Proposed 25 acre school site - 1200 pupils @ 20 GPD = 24000 GPD (ADF))

2 Public Dedicated Areas (Proposed 10 acre school site - 600 pupils @ 20 GPD = 12000 GPD (ADF))

3 Public Dedicated Areas (Proposed 10 acre school site - 600 pupils @ 20 GPD = 12000 GPD (ADF))

4 See Table 4.5 for commercial flows. Includes 8220 GPD (ADF) and 1330 GPD (PF) for commercial areas (Accum Flow).

5 See comments (2) and (4) for flows other than residential.

TABLE 4.5
COMPUTATION OF PROJECTED COMMERCIAL SANITARY SEWER FLOWS
LINE "B"

LINE NO. B	COMMERCIAL				AVG. DAY FLOW G.P.D. INCR	PEAK FLOW FACTOR	TOTAL PEAK FLOW G.P.D.		INFILTRATION G.P.D.		TOTAL FLOW G.P.D.		SANITARY SEWER DESIGN PIPE SIZE (IN)	TOTAL FLOW MGD
	AREA (ACS)	BLDG SF	OFF/WAREHS	POPULATION			INCR	ACCUM	INCR	ACCUM	INCR	ACCUM		
B-1	9.4	102366 (1)	343	68	8220 (1)	-	12330 (1)	-	-	-	-	-	-	-
B-4	9.4			411										

1 See Table 4.4

2 See Table 4.4

3 See Table 4.4

4 See Table 4.4

The above flows are generated by areas located in the Stonestgate Center Metropolitan District.

TABLE 4.6

TOTAL SANITARY SEWER FLOWS
ENTERING FACILITIES OF THE STONEGATE
CENTER METROPOLITAN DISTRICT

LINE NO.	DEVELOPMENT	AVG. DAY FLOW GPD	PEAK FLOW FACTOR	PEAK FLOW GPD	INFILTRATION GPD	TOTAL FLOW GPD
A	Stonegate Village Stonegate Center	270,370	4.0	1,081,480	3,576	1,085,056
		4,020	1.5	6,030		
	SubTotal	274,390		1,087,510	3,576	1,091,086
B	Stonegate Village Stonegate Center	268,130	4.0	1,072,520	7,554	1,080,074
		8,220	1.5	12,330		
	SubTotal	276,350		1,084,850	7,554	1,092,404
	TOTAL	550,740		2,172,360	11,130	2,183,490

From Table 4.6 and the preceding tables, it can be seen that the projected total flow from the District will be 2,165,130 gallons per day, of which 1,080,074 gallons per day may be serviced by gravity flow and 1,085,056 gallons per day will have to be pumped from Lift Station #2 to the Jordan Road Outfall as shown on Exhibit "B". An additional total flow of 18,360 gallons per day will also be generated in District lines by areas within the Stonegate Center Metropolitan District.

4.5 COMPUTATION OF CONSTRUCTION COSTS

This section computes the construction costs for the installation of a complete sanitary sewer system. The costs shown are based on 1981 figures and the quantities shown on Exhibit "C" Overall Master Sanitary Sewer Plan.

Table 4.7 computes the costs for the installation of the main collector system and the interior collection system.

TABLE 4.7
SANITARY SEWER COLLECTION SYSTEM
CONSTRUCTION COSTS

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
A	<u>Main Collector System Line "A" M.H. A-1 to A-6</u>				
1.	8" PVC Sanitary Sewer	3900	LF	\$ 10.83	\$ 42,237.00
2.	10" PVC Sanitary Sewer	1390	LF	12.00	16,680.00
3.	4'-0" Dia. Sanitary Sewer Manhole	19	EA	1,000.00	<u>19,000.00</u>
	Subtotal				\$ 77,917.00
	15% Contingency				<u>\$ 11,687.55</u>
					\$ 89,604.55
B	<u>Main Collection System Line "B" M.H. B-1, B-2 to M.H. B-5</u>				
1.	8" PVC Sanitary Sewer	3420	LF	10.83	37,038.60
2.	10" PVC Sanitary Sewer	5040	LF	12.00	60,480.00
3.	4'-0" Dia. Sanitary Sewer Manhole	44	EA	1,000.00	<u>44,000.00</u>
	Subtotal				\$ 141,518.60
	15% Contingency				<u>\$ 21,227.79</u>
					\$ 162,746.39
C	<u>Interior Collection System (In-Tract)</u>				
1	8" PVC Sanitary Sewer	58290	LF	10.83	\$ 631,280.70
2	4'-0" I.O. Sanitary Sewer Manholes	309	EA	1,000.00	<u>309,000.00</u>
	Subtotal				\$ 940,280.70
	15% Contingency				<u>\$ 141,042.11</u>
					\$1,081,322.81
D	<u>Sanitary Sewer Service</u>	2500	EA	300.00	\$743,200.00
T O T A L					\$2,076,873.75

Table 4.8 computes the cost of the District for the construction of Regional Sanitary Sewer Facilities.

TABLE 4.8
DISTRICT COST OF REGIONAL
SANITARY SEWER FACILITIES

DESCRIPTION	TOTAL CONSTRUCTION COST With 28% Contingencies	TOTAL DISTRICT COST
1. Sewage Treatment Plant	\$ 2,118,592.00	\$ 1,926,336.00
2. Land Application Process	6,704,870.00	3,394,910.00
3. Jordan Road Outfall	214,336.00	214,336.00
4. 8" F-M L.S.#2	295,891.00	295,891.00
5. Other Regional Sanitary Sewer Facilities	922,194.00	570,460.00
TOTALS	\$ 10,255,883.00	\$ 6,401,933.00

Table 4.9 summarizes the anticipated construction costs to install a complete sanitary sewer system capable of serving the District at ultimate development.

TABLE 4.9
SUMMARY OF SANITARY SEWER FACILITIES
CONSTRUCTION COSTS

ITEM	DESCRIPTION	COST
1.	Regional Sanitary Sewer Facilities	\$6,401,933.00
2.	Main Collector System	280,878.00
3.	Interior Sewer System	1,203,559.00
4.	Sewer Services	743,200.00
	TOTAL SANITARY SEWER SYSTEM COST	8,629,570.00
	LESS IN-TRACT FACILITIES	<1,946,759.00>
	TOTAL COST TO DISTRICT	\$6,682,811.00

* Includes 28% Contingencies and Engineering

4.6 PRELIMINARY COST ESTIMATE TO DEVELOP A SANITARY SEWER SYSTEM

This section presents a General Summary of the Total Construction and Engineering Costs to develop a complete sanitary sewer system for the District. Table 4.10 has been prepared to bring together all the sanitary sewer construction costs set forth in their report and to make allowance for contingencies and engineering fees.

TABLE 4.10
TOTAL COST FOR THE INSTALLATION OF A
COMPLETE SANITARY SEWER SYSTEM

1. Sanitary Construction Costs	\$5,220,946.00
2. 15% Contingencies	783,142.00
3. 13% Engineering, Survey, Inspection	678,723.00
TOTAL COSTS TO DISTRICT	\$6,682,811.00

4.7 PHASED CONSTRUCTION COST

The tables contained in this section outlines and computes the anticipated sanitary sewer cost per phase based upon 1981 construction costs and the quantities shown on Exhibit "C" Overall Master Sanitary Sewer Plan and which is summarized in Table 4.7 Sanitary Sewer System Construction Costs.

TABLE 4.11
 SANITARY SEWER COLLECTION SYSTEM - LINE A
 CONSTRUCTION COSTS
 IN TRACT

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
<u>Section A</u>	<u>From M.H. A-1 to M.H. A-6</u>				
1.	8" PVC Sanitary Sewer	3900	LF	\$ 10.83	\$ 42,237.00
	10" PVC Sanitary Sewer	1390	LF	12.00	16,680.00
	4'-0" Dia. Sanitary Sewer Manhole	19	EA	1,000.00	<u>19,000.00</u>
	Subtotal				\$ 77,917.00
	15% Contingency				<u>11,687.55</u>
					<u>\$89,604.55</u>
<u>Section B</u>	<u>Phase 4, 9 (TH)</u>				
1	8" PVC Sanitary Sewer	1200	LF	10.83	\$ 12,996.00
2	4'-0" Dia. Sanitary Sewer Manhole	4	EA	1,000.00	<u>4,000.00</u>
	Subtotal				\$ 16,996.00
	15% Contingency				<u>2,549.40</u>
					<u>\$ 19,545.40</u>
<u>Section C</u>	<u>Phase 6 (SF, Zero Lot)</u>				
1	8" PVC Sanitary Sewer	3045	LF	10.83	\$ 32,977.53
2	4'-0" I.O. Sanitary Sewer Manholes	18	EA	1,000.00	<u>18,000.00</u>
	Subtotal				\$ 50,977.35
	15% Contingency				<u>7,646.80</u>
					<u>\$ 58,623.95</u>
<u>Section D</u>	<u>Phase 8 (SF, Zero Lot)</u>				
1	8" PVC Sanitary Sewer	3005	LF	10.83	\$ 32,544.15
2	4'-0" I.O. Sanitary Sewer Manholes	18	EA	1,000.00	<u>18,000.00</u>
	Subtotal				\$ 50,544.15
	15% Contingency				<u>7,581.62</u>
					<u>\$ 58,125.77</u>

* District Cost

TABLE 4.11 (cont'd)
 SANITARY SEWER COLLECTION SYSTEM - LINE A
 CONSTRUCTION COSTS
 IN TRACT

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
<u>Section E</u>	<u>Phase 5 (SF)</u>				
1	8" PVC Sanitary Sewer	8290	LF	10.83	\$ 89,780.70
2	4'-0" I.O. Sanitary Sewer Manhole	44	EA	1,000.00	<u>44,000.00</u>
	Subtotal				\$ 133,780.70
	15% Contingency				<u>20,067.11</u>
					\$ 153,847.81
<u>Section F</u>	<u>Phase 6 (SF)</u>				
1	8" PVC Sanitary Sewer	1730	LF	10.83	\$ 18,735.90
2	4'-0" I.O. Sanitary Sewer Manhole	9	EA	1,000.00	<u>9,000.00</u>
	Subtotal				\$ 27,735.90
	15% Contingency				<u>4,160.39</u>
					\$ 31,896.29
<u>Section G</u>	<u>Phase 7 (SF)</u>				
1	8" PVC Sanitary Sewer	1190	LF	10.83	\$ 12,887.70
2	4'-0" I.O. Sanitary Sewer Manhole	5	EA	1,000.00	<u>5,000.00</u>
	Subtotal				\$ 17,887.70
	15% Contingency				<u>2,683.16</u>
					\$ 20,570.86

TABLE 4.12
SUMMARY OF CONSTRUCTION COST
LINE A

PORTION	CONSTRUCTION COST	15% CONTINGENCIES	TOTAL COSTS
1 Section A - MH A-1 to MH A-6	\$ 77,917.00	\$ 11,687.55	\$ 89,604.55
2 Section B - Phase 4 & 9 (TH)	16,996.00	2,549.40	19,545.40
3 Section C - Phase 6 (SF Zero Lot) Section F - Phase 6 (SF)	50,977.35 27,735.90 <u>78,713.25</u>	7,646.60 4,160.39 <u>11,806.99</u>	58,623.95 31,896.29 <u>90,520.24</u>
4 Section D - Phase 8 (SF Zero Lot)	50,544.15	7,581.62	58,125.77
5 Section E - Phase 5 (SF)	133,780.70	20,067.11	153,847.81
6 Section G - Phase 7 (SF)	17,887.70	2,683.16	20,570.86
TOTAL	\$ 375,838.80	\$ 56,375.82	\$ 432,214.62

Section A shall be installed at District cost and Sections B through G are In-Tract sewer and shall be installed at Developers cost.

TABLE 4.13
 SANITARY SEWER COLLECTION SYSTEM - LINE B
 CONSTRUCTION COSTS
 (IN-TRACT)

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
<u>Section A*</u> <u>From MH B-1, B-2 to MH B-5</u>					
1	8" PVC Sanitary Sewer	3420	LF	\$ 10.83	\$ 37,038.60
2	10" PVC Sanitary Sewer	5040	LF	12.00	60,480.00
3	4'-0" I.D. Sanitary Sewer Manholes	44	EA	1,000.00	<u>44,000.00</u>
	Subtotal				\$ 141,518.60
	15% Contingency				<u>21,227.79</u>
					\$ <u>162,746.39</u>
<u>Section B</u> <u>Phase 1 (SF)</u>					
1	8" PVC Sanitary Sewer	11,270	LF	10.83	\$ 122,054.10
2	4'-0" Dia. Sanitary Sewer Manhole	60	EA	1,000.00	<u>60,000.00</u>
	Subtotal				\$ 182,054.10
	15% Contingency				<u>27,308.12</u>
					\$ <u>209,362.22</u>
<u>Section C</u> <u>Phase 2 (SF)</u>					
1	8" PVC Sanitary Sewer	4790	LF	10.83	\$ 51,875.70
2	4'-0" I.D. Sanitary Sewer Manholes	25	EA	1,000.00	<u>25,000.00</u>
	Subtotal				\$ 76,875.70
	15% Contingency				<u>11,531.36</u>
					\$ <u>88,407.06</u>
<u>Section D</u> <u>Phase 3 (SF)</u>					
1	8" PVC Sanitary Sewer	8370	LF	10.83	\$ 90,647.10
2	4'-0" I.D. Sanitary Sewer Manholes	44	EA	1,000.00	<u>44,000.00</u>
	Subtotal				\$ 134,647.10
	15% Contingency				<u>20,197.07</u>
					\$ <u>154,844.17</u>

* District Cost

TABLE 4.13 (Cont'd)
 SANITARY SEWER COLLECTION SYSTEM - LINE B
 CONSTRUCTION COSTS
 (IN-TRACT)

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
Section E					
<u>Phase 4 (SF)</u>					
1	8" PVC Sanitary Sewer	5940	LF	10.83	\$ 64,330.20
2	4'-0" I.D. Sanitary Sewer Manhole	32	EA	1,000.00	<u>32,000.00</u>
	Subtotal				\$ 96,330.20
	15% Contingency				<u>14,449.53</u>
					\$ 110,779.73
Section F					
<u>Phase 6 (SF)</u>					
1	8" PVC Sanitary Sewer	2950	LF	10.83	\$ 31,948.50
2	4'-0" I.D. Sanitary Sewer Manhole	14	EA	1,000.00	<u>14,000.00</u>
	Subtotal				45,948.50
	15% Contingency				<u>\$ 6,892.28</u>
					\$ 52,840.78
Section G					
<u>Phase 7 (SF)</u>					
1	8" PVC Sanitary Sewer	2870	LF	10.83	\$ 31,082.10
2	4'-0" I.D. Sanitary Sewer Manhole	15	EA	1,000.00	<u>15,000.00</u>
	Subtotal				\$ 46,082.10
	15% Contingency				<u>6,912.32</u>
					\$ 52,994.42
Section H					
<u>Phase 8 (SF)</u>					
1	8" PVC Sanitary Sewer	3640	LF	10.83	\$ 39,421.20
2	4'-0" I.D. Sanitary Sewer Manhole	21	EA	1,000.00	<u>21,000.00</u>
	Subtotal				\$ 60,421.20
	15% Contingency				<u>9,063.18</u>
					\$ 69,484.38

TABLE 4.14
SUMMARY OF CONSTRUCTION COST
LINE B

PORTION	CONSTRUCTION COST	15% CONTINGENCIES	TOTAL COSTS
1 Section A- MH B-1, B-2 to MH B-5	\$ 141,518.60	\$ 21,227.79	\$ 162,746.39
2 Section B- Phase 1 (SF)	182,054.10	27,308.12	209,362.22
3 Section C- Phase 2	76,875.70	11,531.36	88,407.06
4 Section D- Phase 3 (SF)	134,647.10	20,197.07	154,844.17
5 Section E- Phase 4 (SF)	96,330.20	14,449.53	110,779.73
Section F- Phase 6 (SF)	45,948.50	6,892.28	52,840.78
6 Section G- Phase 7 (SF)	46,082.10	6,912.32	52,994.42
7 Section H- Phase 8 (SF)	<u>60,421.20</u>	<u>9,063.18</u>	<u>69,484.38</u>
TOTAL	\$ 783,877.50	\$ 117,581.63	\$ 901,459.13

Section A shall be installed at District cost and Sections B through H are In-Tract sewer and shall be installed at developer's cost.

TABLE 4.15
SUMMARY OF PHASED CONSTRUCTION COST

PHASE	UNITS	CONSTRUCTION COST	15% CONTINGENCIES	SEWER ** LATERAL COST	TOTAL COSTS
Line A * Collection Sewer		77,917.00	11,687.55	--	89,604.55
Line B * Collection Sewer		141,518.60	21,227.79	--	162,746.39
Phase 1 (1983-84)	260	182,054.10	27,308.12	77,292.80	286,655.02
Phase 2 (1985)	243	76,875.70	11,531.36	72,239.04	160,646.10
Phase 3 (1986)	239	134,647.10	20,197.07	71,049.92	225,894.09
Phase 4 (1987)	285	104,828.20	15,724.23	84,724.80	205,277.23
Phase 5 (1988)	304	133,780.70	20,067.11	90,373.12	244,220.93
Phase 6 (1989)	295	124,661.75	18,699.26	87,697.60	231,058.61
Phase 7 (1990)	296	63,969.80	9,595.47	87,994.88	161,560.15
Phase 8 (1991)	296	110,965.35	16,644.80	87,994.88	215,605.03
Phase 9 (1992)	<u>282</u>	<u>8,498.00</u>	<u>1,274.70</u>	<u>83,832.96</u>	<u>93,605.66</u>
TOTALS	2500	1,159,716.30	\$ 173,957.45	\$ 743,200.00	\$2,076,873.75

* District Cost

** Based on 40 feet per unit at \$297.28 per unit

TABLE 4.16
SUMMARY OF DISTRICT PHASED CONSTRUCTION COSTS

YEAR	DISTRICT OUTFALL	REGIONAL SANITARY SEWER SYSTEM	JORDAN ROAD OUTFALL	LIFT STATION FORCE MAINS	WASTEWATER TREATMENT PLANT	EFFLUENT IRRIGATION	T O T A L S
1982					\$17,744.00		\$17,744.00
1983	181,144.00		214,336.00		1,230,576.00	1,484,676.00	3,110,732.00
1984							
1985		126,507.00				317,440.00	443,947.00
1986					192,256.00	236,262.00	428,518.00
1987		278,885.00		295,891.00		1,214,836.00	1,789,612.00
1988	99,734.00	165,068.00			485,760.00	141,696.00	892,258.00
TOTALS	\$280,878.00	\$570,460.00	\$214,336.00	\$295,891.00	\$1,926,336.00	\$3,394,910.00	\$6,682,811.00

SECTION 5
PROPOSED STREET AND ROADWAY IMPROVEMENTS

5.1 GENERAL

This section discussed the various local residential streets, local collector streets and minor arterials that will be installed by the District within the District boundaries as well as participation in the major improvement in West Parker Road and Jordan Road in conjunction with the Stonegate Center Metropolitan District. All improvements shall meet the requirements of Douglas County and all other regulatory agencies and shall include combination curbs, gutter and sidewalks, traffic signs, street signs, handicap ramps and street lighting in addition to the standard paving.

5.2 COMPUTATION OF LINEAR FEET OF STREET AND ROADWAY IMPROVEMENTS

Table 5.1 shows the linear footage of streets and roadways to be installed in the District based on the overall street and roadway layout of the District as shown on Exhibits "D" - Overall Roadway and Bridge Plan.

TABLE 5.1
 LINEAR FOOTAGE OF STREET AND ROADWAY IMPROVEMENTS

TYPE OF STREET/ROADWAY	LINEAR FOOTAGE
1. Local- Residential (50 foot R.O.W.)	
2. Local Collectors (60 foot R.O.W.)	
3. Minor Arterial (80 foot R.O.W.)	
4. Major Arterial West Parker and Jordan Roads (120 foot R.O.W.)	

5.3 COMPUTATION OF CONSTRUCTION COSTS

The tables in this section compute the anticipated construction costs for the street and roadway improvements to be made and are shown in 1981 costs. The costs include bridges, drainage systems, grading, traffic control, R.O.W. landscaping and utility relocations.

TABLE 5.2
 COMPUTATION OF CONSTRUCTION COSTS

LOCATION	CONSTRUCTION COST	CONTINGENCY	TOTAL COST
1. Jordan Road South of Lincoln	\$1,216,434.00	\$316,273.00	\$1,532,707.00
2. 50% of Lincoln West of Jordan	583,584.00	151,732.00	735,316.00
3. 20% of Lincoln East of Jordan	1,612,828.00	419,335.00	2,032,163.00
4. 13% of Jordan North of Lincoln		131,358.00	131,358.00
5. Stonegate Way	<u>1,109,361.00</u>	<u>288,434.00</u>	<u>1,397,795.00</u>
TOTALS	\$4,522,207.00	\$1,307,132.00	\$5,829,339.00

Table 5.3 shows the various items included in the construction costs shown in Table 5.2.

TABLE 5.3
ROADWAY BREAKDOWN
CONSTRUCTION COSTS

LOCATION	ROADWAY COST	BRIDGE COST	DRAINAGE SYSTEM COST	GRADING COST	TRAFFIC CONTROL COST	R.O.W. LAND-SCAPING COST	UTILITY RELOCATION COST	SUBTOTAL CONST. COST	26% CONTINGENCY	TOTAL COST
1. Jordan Road South of Lincoln	500196	560000	3354	57183	30000	65701	-	1216434	316273	1532707
2. 50% of Lincoln West of Jordan	415150	-	17539	54338	30000	66557	-	583584	151732	735316
3. 20% of Lincoln East of Jordan	180500	1328000	6765	23625	30000	28938	15000	1612828	419335	2032163
4. 13% of Jordan North of Lincoln								-	131358*	131358
5. Stonegate Way	1109361**							1109361	288434	1397795
SUBTOTAL	2205207	1888000	27658	135146	90000	161196	15000	4522207		
26% Contingency	573354	490880	7191	35138	23400	41911	3900		1307132	
TOTAL COST	2778561	2378880	34849	170284	113400	203107	18900			5829339

* Includes additional contingencies

** Includes all items

The roadway costs shown in Table 5.2 and 5.3 are based upon a Linear Footage Cost as established in Table 5.4.

TABLE 5.4
SUMMARY OF LINEAR FOOTAGE COSTS

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
LOCAL RESIDENTIAL STREETS					
1.	2-1/2" A.C. Pavement	32	SF	\$0.52	\$16.64
2.	6-1/2" Aggregate Base	32	SF	0.28	8.96
3.	Combination Curb, Gutter and Sidewalk	2	LF	10.70	21.40
4.	Prime Coat	32	SF	0.033	1.06
5.	Fine Grading	32	SF	0.033	1.06
6.	Traffic Signs (2 signs/300' @ \$125.00)	1	LF	0.83	0.83
7.	Street Signs (4 signs/300' @ \$175.00)	1	LF	2.33	2.33
8.	Street Cut Grading	2	CY	1.35	2.70
9.	Compaction (T-99 Standard)	32	SF	0.065	2.08
10.	Handicap Ramps (4/300' @ \$65.00)	1	LF	0.87	0.87
11.	Street Lights (1 double/225' @ \$1,000.00)	1	LF	4.44	4.44
					<u>\$62.37</u>
	15% Contingency				9.36
	11% Engineering				<u>6.86</u>
	TOTAL COST / L.F.				\$78.59
LOCAL COLLECTORS					
1.	2-1/2" A.C. Pavement	36	SF	\$0.52	\$18.72
2.	6-1/2" Aggregate Base	36	SF	0.28	10.08
3.	Combination Curb, Gutter and Sidewalk	2	LF	10.70	21.40
4.	Prime Coat	36	SF	0.033	1.19
5.	Fine Grading	36	SF	0.033	1.19
6.	Traffic Signs (2 signs/300' @ \$125.00)	1	LF	0.83	0.83
7.	Street Signs (4 signs/300' @ \$175.00)	1	LF	2.33	2.33
8.	Street Cut Grading	2.5	CY	1.35	3.37
9.	Compaction (T-99 Standard)	36	SF	0.065	2.34
10.	Handicap Ramps (4/300' @ \$65.00)	1	LF	0.87	0.87
11.	Street Lights (1 double/225' @ \$1,000.00)	1	LF	4.44	4.44
					<u>\$66.75</u>
	15% Contingency				10.01
	11% Engineering				<u>7.34</u>
	TOTAL COST / L.F.				84.10

TABLE 5.4 (Cont'd)
SUMMARY OF LINEAR FOOTAGE COSTS

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
MINOR ARTERIALS					
1.	3" A.C. Pavement	56	SF	\$0.63	\$35.28
2.	8" Aggregate Base	56	SF	0.34	19.04
3.	Vertical Curb and Gutter	2	LF	6.39	12.78
4.	4" P.C.C. Sidewalk	9	SF	1.34	12.06
5.	Prime Coat	56	SF	0.033	1.85
6.	Traffic Signs (2 signs/300' @ \$125.00)	1	LF	0.83	0.83
7.	Street Signs (4 signs/500' @ \$175.00)	1	LF	1.40	1.40
8.	Street Grading	3.4	CY	1.35	4.59
9.	Fine Grading	56	SF	0.065	3.64
10.	Compaction (T-99 Standard)	56	SF	0.065	3.64
11.	Handicap Ramps (4/500' @ \$65.00)	1	LF	0.52	0.52
12.	Street Lights (1 double/225' @ \$1,000)	1	LF	4.44	4.44
					\$98.28
	11% Contingency				10.81
	15% Engineering				14.74
	TOTAL COST / L.F.				\$123.83
MAJOR ARTERIALS (W.PARKER AND JORDAN ROAD)					
1.	4" A.C. Pavement	77	SF	\$0.84	64.68
2.	12" Base Course	77	SF	0.51	39.27
3.	Vertical Curb and Gutter	2	LF	6.39	12.78
4.	Prime Coat	77	SF	0.033	2.54
5.	Traffic Signs (2 signs/500' @ \$125.00)	1	LF	0.50	0.50
6.	Street Signs (4 signs/1500' @ \$175.00)	1	LF	0.47	0.47
7.	Street Grading	4.7	CY	1.35	6.35
8.	Fine Grading	77	SF	0.033	2.54
9.	Compaction (T-99 Standard)	77	SF	0.065	5.01
10.	Handicap Ramps (4/1000' @ \$65.00)	1	LF	0.26	0.26
11.	Street Lights (1 Single/100' @ \$600)	1	LF	6.00	6.00
12.	Street Painting	8	LF	0.50	4.00
					144.04
	15% Contingency				21.66
	11% Engineering				15.88
	TOTAL COST / L.F.				\$181.94

TABLE 5.4 (Cont'd)
SUMMARY OF LINEAR FOOTAGE COSTS

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
	<u>MAJOR ARTERIALS (JORDAN ROAD</u> <u>- 1/2 SECTION)</u>				
1.	4" A.C. Pavement	38.5	SF	\$0.84	\$32.34
2.	12" Base Course	38.5	SF	0.51	19.64
3.	Vertical Curb and Gutter	1	LF	6.39	6.39
4.	2" x 6" Redwood Header	1	LF	4.50	4.50
5.	Prime Coat	38.5	SF	0.033	1.27
6.	Traffic Signs (1 sign/500' @ \$125.00)	1	LF	0.25	0.25
7.	Street Signs (2 signs/1500' @ \$175.00)	1	LF	0.23	0.23
8.	Street Grading	2.9	CY	1.35	3.92
9.	Fine Grading	38.5	SF	0.033	1.27
10.	Compaction (T-99 Standard)	38.5	SF	0.065	2.50
11.	Handicap Ramps (2/1000' @ \$65.00)	1	LF	0.13	0.13
12.	Street Lights (1 Single/200' @ \$600.00)	1	LF	3.00	3.00
13.	Street Painting	4	LF	0.50	2.00
14.	Slope Treatment	5	SF	0.40	2.00
					\$79.44
	15% Contingency				11.92
	11% Engineering				8.74
	TOTAL COST / L.F.				\$100.10

5.4 PRELIMINARY COST ESTIMATE FOR ROADWAY IMPROVEMENTS

This section presents a general summary of the total construction and engineering costs for roadway improvements for the District. Table 5.5 has been prepared to bring together all the roadway costs previously calculated. These costs are based on 1981 figures.

TABLE 5.5
TOTAL COST FOR ROADWAY IMPROVEMENTS

1. Roadway Construction Costs	4,522,207.00
2. 15% Contingency	754,115.00
3. 11% Engineering	<u>553,017.00</u>
TOTAL	5,829,339.00

5.5 PHASED CONSTRUCTION COSTS

Table 5.6 outlines the anticipated roadway improvement cost per phase based on 1981 construction costs.

TABLE 5.6
ROADWAY IMPROVEMENTS
PHASED CONSTRUCTION COST

YEAR	LOCATION					
	Jordan Road South of Lincoln	50% of Lincoln W. of Jordan	20% of Lincoln E. of Jordan	13% of Jordan N. of Lincoln	Stonegate Way	TOTALS
1982		\$ 49,300				\$ 49,300
1983		686,016		131,358	421,685	1,239,059
1984						
1985						
1986					\$786,379	786,379
1987						
1988	1532707		\$ 2032163		189731	3754601
TOTALS	\$1532707	\$ 735316	\$ 2032163	\$ 131358	\$1397795	\$ 5829339

Tables 5.7 and 5.8 show the various breakdown of items per phase included in the costs shown in Table 5.6.

TABLE 5.8
ROADWAY BRIDGEMAN CONSTRUCTION COSTS
PHASED CONSTRUCTION

T Y P E	1 9 8 2			1 9 8 3			1 9 8 6			1 9 8 8			1 9 9 2			T O T A L S		
	CONST	CONT	TOTAL	CONST	CONT	TOTAL	CONST	CONT	TOTAL	CONST	CONT	TOTAL	CONST	CONT	TOTAL	CONST	CONT	TOTAL
1. Roadways		49300	49300	415150	58639	473789				680696	176981	857677				1095846	284920	1380766
2. Bridges										1888000	490880	2378880				1888000	490880	2378880
3. Drainage System				17339	4560	2209				10119	2631	12750				27658	7191	34849
4. Grading				54338	14128	68466				80808	21010	101818				135146	35138	170284
5. Traffic Control				30000	7800	37800				60000	15600	75600				90000	23400	113400
6. R.O.M. Landscaping				66557	17305	83862				94639	24606	119245				161196	41911	203107
7. Utility Relocation				918255	320804	1239059	624110	162269	786379	2979842	774759	3754601				15000	3900	18900
TOTALS		49300	49300	918255	320804	1239059	624110	162269	786379	2979842	774759	3754601				4522207	1307132	5829339
				(1)	(2)	(3)	(4)	(4)	(4)	(5)	(6)	(7)				(8)	(8)	(8)

- (1) Includes \$334671 for Stonegate Way - all items
- (2) Includes \$87014 for Stonegate Way - all items and additional contingencies for Jordan Road North of Lincoln Way
- (3) Includes \$421685 for Stonegate Way - all items and additional contingencies for Jordan Road North of Lincoln Way
- (4) Stonegate Way - all items
- (5) Includes \$130580 for Stonegate Way - all items
- (6) Includes \$39151 for Stonegate Way - all items
- (7) Includes \$189731 for Stonegate Way - all items
- (8) Includes Stonegate Way and additional contingencies for Jordan Road North of Lincoln Way

SECTION 6

SUMMARY OF CONSTRUCTION COSTS AND SCHEDULES

This section summarizes all of the construction costs previously calculated for the installation of all parks and recreation, improvements, water and sanitary sewer facilities and street improvements including contingencies and engineering, and sets such costs on a per phase basis.

TABLE 6.1
SUMMARY OF CONSTRUCTION COSTS

TYPE OF IMPROVEMENT

1. Water Facilities	\$4,736,192.00
2. Sewer Facilities	6,682,811.00
3. Roadway Improvements	5,829,339.00
4. Parks and Recreation	<u>1,367,998.00</u>
TOTAL	\$ 18,616,340.00

6.2 PHASED CONSTRUCTION COSTS

Table 6.2 presents the phased construction costs for the water, sanitary sewer, roadway improvements and parks and recreation.

TABLE 6.2
SUMMARY OF PHASED DISTRICT CONSTRUCTION COSTS

1981 DOLLARS

	RES. WATER COST	RES. SEWER COST	TOTAL RES. W&S COST	RES. AMEN. COST	RESIDENT EXEMPT FACIL.	RES. ROADS	TOTAL RES. COSTS
1981	210000		210000		210000		210000
1982	85061	17744	102805		102805	49300	152105
1983	2083368	3110732	5194100	469934	5664034	1239059	6903053
1984			0	221400	221400		221400
1985	531087	443947	975034		975034		975034
1986	195962	428518	624480	417749	1042229	786379	1828608
1987	941214	1789612	2730826	175275	2906101		2906101
1988	689500	892258	1581758	83640	1665398	3754601	5419999
1989			0		0		0
1990			0		0		0
1991			0		0		0
1992			0		0		0
1993			0		0		0
1994			0		0		0
1995			0		0		0
1996			0		0		0
1997			0		0		0
TOTAL	4736192	6682811	11419003	1367998	12787001	5829339	18616340

ESCALATED DOLLARS

	RES. WATER COST	RES. SEWER COST	TOTAL RES. W&S COST	RES. AMEN. COST	RESIDENT EXEMPT FACIL.	RES. ROADS	TOTAL RES. COSTS
1981	210000	0	210000	0	210000	0	210000
1982	87613	18276	105889	0	105889	50779	156668
1983	2295872	3428027	5723898	517867	6241765	1365443	7607208
1984	0	0	0	265901	265901	0	265901
1985	695193	581127	1276320	0	1276320	0	1276320
1986	279638	611495	891133	596128	1487261	1122163	2609424
1987	1464529	2784636	4249165	272728	4521893	0	4521893
1988	1169392	1513270	2682662	141853	2824515	6367803	9192318
1989	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0
TOTAL	6202236	8936831	15139067	1794478	16933544	8906188	25839733

SECTION 7
OPERATING AND MAINTENANCE COSTS

In addition to the aforementioned construction costs set forth in this Chapter V, operating and maintenance costs will be incurred by the District. Although the streets will be maintained by the County, the District will face periodic operating and maintenance costs, particularly with respect to the water and sewer systems. It is estimated that the annual expenses for the District for such items will range up to approximately \$310,000 per year at full development using 1981 figures, all of which are intended to be covered by service and user fees. These figures are accounted for in the FINANCIAL ANALYSIS provided in Chapter VI.

TABLE 7.1
YEARLY OPERATIONS AND MAINTENANCE COSTS

YEAR	ACCUM TAPS	FIXED COSTS	VARIABLE COSTS		TOTAL COSTS
			WATER	SEWER	
1983	0	\$16,700.00	\$12,982.00	\$12,809.00	\$42,491.00
1984	69	21,710.00	12,982.00	12,809.00	47,501.00
1985	207	37,930.00	22,878.00	11,965.00	72,773.00
1986	413	51,000.00	36,819.00	11,788.00	99,607.00
1987	680	61,600.00	48,747.00	14,111.00	124,458.00
1988	928	72,000.00	60,904.00	15,253.00	148,157.00
1989	1185	77,200.00	72,936.00	14,999.00	165,135.00
1990	1460	85,530.00	86,890.00	15,187.00	187,607.00
1991	1735	91,700.00	101,197.00	15,305.00	208,202.00
1992	2010	100,050.00	110,445.00	14,797.00	225,292.00
1993	2324	106,250.00	111,185.00	14,797.00	232,232.00
1994	2500	112,550.00	110,442.00	14,797.00	237,789.00
1995	2500	113,850.00	110,841.00	14,797.00	239,488.00
1996	2500	122,050.00	111,253.00	14,797.00	248,100.00
1997	2500	123,150.00	111,508.00	14,797.00	249,455.00
1998	2500	133,800.00	110,114.00	14,797.00	258,711.00
1999	2500	134,400.00	111,537.00	14,797.00	260,734.00
2000	2500	146,600.00	111,313.00	14,797.00	272,710.00
2001	2500	146,900.00	111,072.00	14,797.00	272,769.00
2002	2500	147,550.00	110,667.00	14,797.00	273,014.00
2003	2500	150,550.00	110,091.00	14,797.00	275,438.00
2004	2500	161,850.00	111,083.00	14,797.00	287,730.00
2005	2500	163,350.00	110,475.00	14,797.00	288,622.00
2006	2500	166,450.00	110,311.00	14,797.00	291,558.00
2007	2500	167,650.00	109,921.00	14,797.00	292,368.00
2008	2500	169,750.00	111,256.00	14,797.00	295,803.00
2009	2500	172,950.00	110,468.00	14,797.00	298,215.00
2010	2500	183,350.00	111,634.00	14,797.00	309,781.00

CHAPTER VI

FINANCIAL ANALYSIS

The estimated costs of the facilities and improvements to be constructed, installed, acquired or with respect to which a contract has been executed are set forth in Section 6.1 and 6.2 of this Service Plan.

The estimated costs of organization of the District, including legal services, are \$25,000. These costs have been advanced and will be paid by the District out of its initial General Obligation bond issue.

Engineering and investment banker fees are addressed, respectively, in Chapters V and VI of this Service Plan.

After consultation with the engineers, and upon advice of Hanifen, Imhoff Inc., financial advisor to the District, it has been decided that the improvements to be constructed by the District will be financed primarily by the issuance of General Obligation bonds to be authorized and issued in accordance with the authorizing act approved by the Colorado Legislature. The bonds, when issued, will mature in not more than twenty years from date of issuance with the first maturity being not later than three years from their date as required by statute. The proposed maximum interest rate will be 18% and the maximum discount 5%. The exact interest rates and discounts will be established at the time the bonds are sold by the District and will reflect market conditions at the time of sale.

The following guidelines will be followed to ensure the economic viability of the District:

Financing. It will be the intention of the District to provide street improvements, water, sanitary sewerage, transportation, and parks and recreation facilities on a phased basis to coincide with the needs of the inhabitants and users of the District consistent with sound financial planning. General Obligation bonds will be issued as needed to provide capital for the District's facilities. The District will have four main sources of income:

(1) Tap Fee Charges: A one-time payment for connection to the District's water and sewer system;

(2) Service Charges: Periodic (monthly, bi-monthly or quarterly) billings to water and sanitation users;

(3) Tax Revenues: Ad valorem taxes will be levied against all property within the District. This is a means of ensuring that all property owners share in the costs of those District facilities which benefit all properties within the District, and

(4) Capitalized Interest and Reserve Fund: Proceeds received directly from bond issues to provide funds for interest payments for the early years in each bond issue, as well as to provide a reserve fund to protect the bondholder and the District from any shortfalls in the event of project delays.

The District will set the rates of the four income sources noted above so that they are well balanced and provide income to service all debt requirements as well as administrative, operation and maintenance expenses. It will also be important for the District's Board of Directors to invest, in legal investments, any monies, which may include construction funds, capitalized interest, reserve funds and bond proceeds, to assist in the sound financial planning for the District. These rates and charges have been estimated in the financing plan and are competitive with similar districts in the area.

Capital Improvements. General Obligation bond issues to provide funds for implementation of the capital improvement plan have been projected to be phased in two basic increments. Capital improvements and corresponding bond issues have been estimated to directly correlate with the District's buildout. All figures have a base year of 1981 costs, to increase 3% in 1982, 7% in 1983, and 9% thereafter. Subsequent financial planning will be adjusted to reflect cost increases or decreases as they become known. A contingency factor has been included to reflect legal, engineering and administrative costs, as well as unforeseen construction costs. The financing plan summarizes the capital improvement costs allocated to specific facilities. These costs are reflected in the estimated schedule of bond sales reflected in the financing plan.

Principal and Interest. The debt repayment schedule shown in the financing plan indicates a debt amortization model based upon estimated interest rates and are illustrated in the estimated principal and interest schedules that follow. The electors of the District will be asked to authorize the issuance of General Obligation bonds or other legal debt. The maximum allowable net effective interest rate will be 18%, with a 5% maximum discount rate.

Assessed Valuation. The estimated current assessed valuation of the property within the District is \$11,184.30. Assessed valuation projections have been based on phased project buildout projections. Ultimate assessed valuation has been based on an assessment value of 10% of market values, and has been aggregated to give year-to-year assessed valuation totals. It is the intent of the District to utilize a conservative approach in order not to overstate the taxing ability of the District.

SHARED COSTS OF REGIONAL FACILITIES

As noted in Chapter V of this Service Plan, it is intended that the District and Stonegate Center Metropolitan District will jointly fund all regional water, sewer, street and transportation facilities which are of common benefit to the inhabitants and users of both special districts in order to realize economies of scale and to allow funding to be tied to relative development and service requirements. Each special district shall issue and be liable for repayment of its own bonds issued for such purposes. The amount and timing of such funding will be based upon relative development within each special district and an equitable allocation of service requirements, and is set forth in the Schedule of Estimated Bond Sales contained in this Chapter VI. Facilities and improvements which specifically benefit only the District will be funded by the District alone.

ESTIMATED BOND SALES

The schedule of estimated bond sales to finance capital improvements is based upon the District's estimates of capital improvement requirements and growth, and is so scheduled as to maintain an equitable and competitive balance between the major sources of income (tap fee income, service charges, property tax revenues and capitalized interest and reserve fund). Capital project requirements will be financed through the phased sale of bonds. The plan presently projects an estimated need for total bond financing, in escalated dollars*, of \$40.425 million for water, sewer, street improvements, and for park and recreation. Transportation system costs, if any, are unknown at this time and will not be incurred unless economically feasible. Recognizing that inflation may be greater than 9%, or that the Board of Directors may determine a different structure of phasing, the District will require authorization from its electors to issue up to \$53 million in bonds or other legal debt.

OPERATING EXPENSES

Administrative, operating and maintenance expenses incurred by the District, which are estimated to total \$310,000 annually at full development using 1981 figures, shall be paid out of service charges.

* 1981 Base year dollar construction costs are escalated 3% in 1982, 7% in 1983 and 9% thereafter.

STONEGATE VILLAGE METROPOLITAN DISTRICT

ESTIMATED SCHEDULE OF BOND SALES

PHASE I - 3/1/83 (Regional)

Construction (1981-1984)	\$ 6,823,555
Capitalized Interest (2 years @ 12%)	2,731,200
Reserve Fund (1 year @ 12%)	1,365,600
Issuing Costs (4%)	455,200
Miscellaneous	4,445
	<hr/>
Bond Issue	<u>\$11,380,000</u>

PHASE IA - 4/1/83 (Roads)

Construction (1981-1984)	\$ 1,416,222
Capitalized Interest (2 years @ 12%)	567,600
Reserve Fund (1 year @ 12%)	283,800
Issuing Costs (4%)	94,600
Miscellaneous	2,778
	<hr/>
Bond Issue	<u>\$ 2,365,000</u>

PHASE II - 3/1/85 (Regional)

Construction (1985-1988)	\$10,109,989
Capitalized Interest (2 years @ 10%)	3,065,000
Reserve Fund (1 year @ 10%)	1,532,500
Issuing Costs (4%)	613,000
Miscellaneous	4,511
	<hr/>
Bond Issue	<u>\$15,325,000</u>

PHASE IIA - 4/1/85 (Roads)

Construction (1985-1988)	\$ 7,489,966
Capitalized Interest (2 years @ 10%)	2,271,000
Reserve Fund (1 year @ 10%)	1,135,500
Issuing Costs (4%)	454,200
Miscellaneous	4,334
	<hr/>
Bond Issue	<u>\$11,355,000</u>

**STONEGATE VILLAGE METROPOLITAN DISTRICT
ESTIMATED FINANCING PLAN**

YEAR	NUMBER OF TAPS	TAP CHARGES	TAP FEE INCOME	WAS UNIT REVENUE	WAS UNIT	WAS UNIT PROFIT	TOTAL WATER & SEWER REVENUE	ADDED VALUATION	MILL LEVY	TAX INCOME	CAPITALIZED INTEREST AND RESERVE FUNDS	1ST YEAR INTEREST AND CONST. FUNDS INT.	INTEREST INCOME	TOTAL INC. AVAILABLE FOR DEBT SERVICE	TOTAL DEBT SERVICE	ANNUAL SHORT-TERM SHORT-TERM	CUMULATIVE SHORT-TERM SHORT-TERM	YEAR
1982		5304.00	0	0	4400	0	4400		25	0	996200	714403	0	5016403	826700	0	0	1982
1983		5795.00	0	0	5300	-4300	4200		25	0	0	247193	0	1157260	1449400	0	4791903	1983
1984		6334.35	49000	30000	59000	-73000	96977		25	0	8004000	1354931	0	10773335	3197600	0	4291770	1984
1985	69	7122.46	962927	90000	94000	4000	1448322		25	0	0	527999	0	3400996	6334200	-1120204	10745302	1985
1986	130	7763.70	1597322	213000	144000	49000	1668322	1625	25	25623	0	0	1074530	5020850	-1452616	9728226	1986	
1987	206	8462.43	2287364	307000	194000	100000	2447464	3351	25	83775	0	0	1074530	5020850	-1339048	7733578	1987	
1988	267	9224.65	2887364	540000	240000	407000	3077933	7787	25	182175	0	0	979263	5020850	-1044338	7087221	1988	
1989	297	10054.22	3287363	791000	302000	487000	3701750	13078	25	326790	0	0	790722	5020850	-144978	6922263	1989	
1990	275	10793.07	3204908	1042000	374000	680000	4208908	19302	25	482250	0	0	692224	5066700	500757	7423100	1990	
1991	275	11945.41	3204908	1375000	451000	924000	4704638	26425	25	666425	0	0	692224	5066700	1340730	8749910	1991	
1992	275	13920.30	3204908	1737000	533000	1204000	5194638	35137	25	878425	0	0	692224	5066700	2794014	11745924	1992	
1993	314	14192.35	4456398	2189000	594000	1592000	6449398	45069	25	1127225	0	0	876991	5066700	2157103	13921024	1993	
1994	176	15449.44	2721440	2567000	640000	1899000	7044000	54438	25	1415750	0	0	876991	5066700	144228	14682254	1994	
1995	0	16861.93	0	2790000	732000	2064000	7044000	70391	25	1751775	0	0	1176392	5066700	2157103	15752542	1995	
1996	0	18379.30	0	3049000	823000	2226000	7044000	81448	25	2056200	0	0	1400525	5066700	616375	14701629	1996	
1997	0	20033.63	0	3324000	903000	2421000	7044000	80778	25	2219450	0	0	1400525	5066700	1050913	15752542	1997	
1998	0	21834.46	0	3623000	1072000	2594000	7044000	91748	25	2419200	0	0	1400525	5066700	1537354	1728327	1998	
1999	0	23801.98	0	3949000	1122000	2827000	7044000	105417	25	2634725	0	0	1400525	5066700	2134105	19419461	1999	
2000	0	25914.16	0	4304000	1200000	3024000	7044000	114970	25	2874250	0	0	1400525	5066700	2777690	22197072	2000	
2001	0	28271.14	0	4672000	1280000	3294000	7044000	125317	25	3129225	0	0	1400525	5066700	3584504	25783576	2001	
2002	0	30824.26	0	5114000	1324000	3580000	7044000	134596	25	3414900	0	0	1400525	5066700	4521640	30393343	2002	
2003	0	33570.44	0	5574000	1402000	3892000	7044000	144890	25	3722250	0	0	1400525	5066700	5644780	37581280	2003	
2004	0	36422.30	0	6074000	1497000	4167000	7044000	162290	25	4037250	0	0	1400525	5066700	6802813	44360940	2004	

**STONEGATE VILLAGE METROPOLITAN DISTRICT
ESTIMATED PRINCIPAL & INTEREST SCHEDULE**

DATE	PRINCIPAL	COUPON RATE	INTEREST	PAYMENT	YEARLY PAYMENT
9/01/83			682,800.00	682,800.00	682,800.00
3/01/84			682,800.00	682,800.00	
9/01/84			682,800.00	682,800.00	1,365,600.00
3/01/85	190,000	12.000%	682,800.00	872,800.00	
9/01/85			671,400.00	671,400.00	1,544,200.00
3/01/86	215,000	12.000%	671,400.00	886,400.00	
9/01/86			658,500.00	658,500.00	1,544,900.00
3/01/87	240,000	12.000%	658,500.00	898,500.00	
9/01/87			644,100.00	644,100.00	1,542,600.00
3/01/88	270,000	12.000%	644,100.00	914,100.00	
9/01/88			627,900.00	627,900.00	1,542,000.00
3/01/89	305,000	12.000%	627,900.00	932,900.00	
9/01/89			609,600.00	609,600.00	1,542,500.00
3/01/90	345,000	12.000%	609,600.00	954,600.00	
9/01/90			588,900.00	588,900.00	1,543,500.00
3/01/91	390,000	12.000%	588,900.00	978,900.00	
9/01/91			565,500.00	565,500.00	1,544,400.00
3/01/92	440,000	12.000%	565,500.00	1,005,500.00	
9/01/92			539,100.00	539,100.00	1,544,600.00
3/01/93	495,000	12.000%	539,100.00	1,034,100.00	
9/01/93			509,400.00	509,400.00	1,543,500.00
3/01/94	555,000	12.000%	509,400.00	1,064,400.00	
9/01/94			476,100.00	476,100.00	1,540,500.00
3/01/95	625,000	12.000%	476,100.00	1,101,100.00	
9/01/95			438,600.00	438,600.00	1,539,700.00
3/01/96	705,000	12.000%	438,600.00	1,143,600.00	
9/01/96			396,300.00	396,300.00	1,539,900.00
3/01/97	800,000	12.000%	396,300.00	1,196,300.00	
9/01/97			348,300.00	348,300.00	1,544,600.00
3/01/98	900,000	12.000%	348,300.00	1,248,300.00	
9/01/98			294,300.00	294,300.00	1,542,600.00
3/01/99	1,015,000	12.000%	294,300.00	1,309,300.00	
9/01/99			233,400.00	233,400.00	1,542,700.00
3/01/00	1,145,000	12.000%	233,400.00	1,378,400.00	
9/01/00			164,700.00	164,700.00	1,543,100.00
3/01/01	1,290,000	12.000%	164,700.00	1,454,700.00	
9/01/01			87,300.00	87,300.00	1,542,000.00
3/01/02	1,455,000	12.000%	87,300.00	1,542,300.00	1,542,300.00
TOTALS	11,380,000		18,438,000.00		29,818,000.00

**STONEGATE VILLAGE METROPOLITAN DISTRICT
ESTIMATED PRINCIPAL & INTEREST SCHEDULE**

DATE	PRINCIPAL	COUPON RATE	INTEREST	PAYMENT	YEARLY PAYMENT
10/01/83			141,900.00	141,900.00	141,900.00
4/01/84			141,900.00	141,900.00	
10/01/84			141,900.00	141,900.00	283,800.00
4/01/85	40,000	12.000%	141,900.00	181,900.00	
10/01/85			139,500.00	139,500.00	321,400.00
4/01/86	45,000	12.000%	139,500.00	184,500.00	
10/01/86			136,800.00	136,800.00	321,300.00
4/01/87	50,000	12.000%	136,800.00	186,800.00	
10/01/87			133,800.00	133,800.00	320,600.00
4/01/88	55,000	12.000%	133,800.00	188,800.00	
10/01/88			130,500.00	130,500.00	319,300.00
4/01/89	65,000	12.000%	130,500.00	195,500.00	
10/01/89			126,600.00	126,600.00	322,100.00
4/01/90	70,000	12.000%	126,600.00	196,600.00	
10/01/90			122,400.00	122,400.00	319,000.00
4/01/91	80,000	12.000%	122,400.00	202,400.00	
10/01/91			117,600.00	117,600.00	320,000.00
4/01/92	90,000	12.000%	117,600.00	207,600.00	
10/01/92			112,200.00	112,200.00	319,800.00
4/01/93	105,000	12.000%	112,200.00	217,200.00	
10/01/93			105,900.00	105,900.00	323,100.00
4/01/94	115,000	12.000%	105,900.00	220,900.00	
10/01/94			99,000.00	99,000.00	319,900.00
4/01/95	130,000	12.000%	99,000.00	229,000.00	
10/01/95			91,200.00	91,200.00	320,200.00
4/01/96	145,000	12.000%	91,200.00	236,200.00	
10/01/96			82,500.00	82,500.00	318,700.00
4/01/97	165,000	12.000%	82,500.00	247,500.00	
10/01/97			72,600.00	72,600.00	320,100.00
4/01/98	185,000	12.000%	72,600.00	257,600.00	
10/01/98			61,500.00	61,500.00	319,100.00
4/01/99	210,000	12.000%	61,500.00	271,500.00	
10/01/99			48,900.00	48,900.00	320,400.00
4/01/00	240,000	12.000%	48,900.00	288,900.00	
10/01/00			34,500.00	34,500.00	323,400.00
4/01/01	270,000	12.000%	34,500.00	304,500.00	
10/01/01			18,300.00	18,300.00	322,800.00
4/01/02	305,000	12.000%	18,300.00	323,300.00	
					323,300.00
TOTALS	2,365,000		3,835,200.00		6,200,200.00

STONEGATE VILLAGE METROPOLITAN DISTRICT
ESTIMATED PRINCIPAL & INTEREST SCHEDULE

DATE	PRINCIPAL	COUPON RATE	INTEREST	PAYMENT	YEARLY PAYMENT
9/01/85			766,250.00	766,250.00	766,250.00
3/01/86			766,250.00	766,250.00	
9/01/86			766,250.00	766,250.00	1,532,500.00
3/01/87	320,000	10.000%	766,250.00	1,086,250.00	
9/01/87			750,250.00	750,250.00	1,836,500.00
3/01/88	355,000	10.000%	750,250.00	1,105,250.00	
9/01/88			732,500.00	732,500.00	1,837,750.00
3/01/89	390,000	10.000%	732,500.00	1,122,500.00	
9/01/89			713,000.00	713,000.00	1,835,500.00
3/01/90	430,000	10.000%	713,000.00	1,143,000.00	
9/01/90			691,500.00	691,500.00	1,834,500.00
3/01/91	475,000	10.000%	691,500.00	1,166,500.00	
9/01/91			667,750.00	667,750.00	1,834,250.00
3/01/92	525,000	10.000%	667,750.00	1,192,750.00	
9/01/92			641,500.00	641,500.00	1,834,250.00
3/01/93	580,000	10.000%	641,500.00	1,221,500.00	
9/01/93			612,500.00	612,500.00	1,834,000.00
3/01/94	645,000	10.000%	612,500.00	1,257,500.00	
9/01/94			580,250.00	580,250.00	1,837,750.00
3/01/95	710,000	10.000%	580,250.00	1,290,250.00	
9/01/95			544,750.00	544,750.00	1,835,000.00
3/01/96	785,000	10.000%	544,750.00	1,329,750.00	
9/01/96			505,500.00	505,500.00	1,835,250.00
3/01/97	865,000	10.000%	505,500.00	1,370,500.00	
9/01/97			462,250.00	462,250.00	1,832,750.00
3/01/98	960,000	10.000%	462,250.00	1,422,250.00	
9/01/98			414,250.00	414,250.00	1,836,500.00
3/01/99	1,060,000	10.000%	414,250.00	1,474,250.00	
9/01/99			361,250.00	361,250.00	1,835,500.00
3/01/00	1,170,000	10.000%	361,250.00	1,531,250.00	
9/01/00			302,750.00	302,750.00	1,834,000.00
3/01/01	1,295,000	10.000%	302,750.00	1,597,750.00	
9/01/01			238,000.00	238,000.00	1,835,750.00
3/01/02	1,430,000	10.000%	238,000.00	1,668,000.00	
9/01/02			166,500.00	166,500.00	1,834,500.00
3/01/03	1,580,000	10.000%	166,500.00	1,746,500.00	
9/01/03			87,500.00	87,500.00	1,834,000.00
3/01/04	1,750,000	10.000%	87,500.00	1,837,500.00	1,837,500.00
TOTALS	15,325,000		20,009,000.00		35,334,000.00

**STONEGATE VILLAGE METROPOLITAN DISTRICT
ESTIMATED PRINCIPAL & INTEREST SCHEDULE**

DATE	PRINCIPAL	COUPON RATE	INTEREST	PAYMENT	YEARLY PAYMENT
10/01/85			567,750.00	567,750.00	567,750.00
4/01/86			567,750.00	567,750.00	
10/01/86			567,750.00	567,750.00	1,135,500.00
4/01/87	235,000	10.000%	567,750.00	802,750.00	
10/01/87			556,000.00	556,000.00	1,358,750.00
4/01/88	260,000	10.000%	556,000.00	816,000.00	
10/01/88			543,000.00	543,000.00	1,359,000.00
4/01/89	290,000	10.000%	543,000.00	833,000.00	
10/01/89			528,500.00	528,500.00	1,361,500.00
4/01/90	320,000	10.000%	528,500.00	848,500.00	
10/01/90			512,500.00	512,500.00	1,361,000.00
4/01/91	355,000	10.000%	512,500.00	867,500.00	
10/01/91			494,750.00	494,750.00	1,362,250.00
4/01/92	390,000	10.000%	494,750.00	884,750.00	
10/01/92			475,250.00	475,250.00	1,360,000.00
4/01/93	430,000	10.000%	475,250.00	905,250.00	
10/01/93			453,750.00	453,750.00	1,359,000.00
4/01/94	475,000	10.000%	453,750.00	928,750.00	
10/01/94			430,000.00	430,000.00	1,358,750.00
4/01/95	525,000	10.000%	430,000.00	955,000.00	
10/01/95			403,750.00	403,750.00	1,358,750.00
4/01/96	580,000	10.000%	403,750.00	983,750.00	
10/01/96			374,750.00	374,750.00	1,358,500.00
4/01/97	645,000	10.000%	374,750.00	1,019,750.00	
10/01/97			342,500.00	342,500.00	1,362,250.00
4/01/98	710,000	10.000%	342,500.00	1,052,500.00	
10/01/98			307,000.00	307,000.00	1,359,500.00
4/01/99	785,000	10.000%	307,000.00	1,092,000.00	
10/01/99			267,750.00	267,750.00	1,359,750.00
4/01/00	870,000	10.000%	267,750.00	1,137,750.00	
10/01/00			224,250.00	224,250.00	1,362,000.00
4/01/01	960,000	10.000%	224,250.00	1,184,250.00	
10/01/01			176,250.00	176,250.00	1,360,500.00
4/01/02	1,060,000	10.000%	176,250.00	1,236,250.00	
10/01/02			123,250.00	123,250.00	1,359,500.00
4/01/03	1,170,000	10.000%	123,250.00	1,293,250.00	
10/01/03			64,750.00	64,750.00	1,358,000.00
4/01/04	1,295,000	10.000%	64,750.00	1,359,750.00	
					1,359,750.00
TOTALS	11,355,000		14,827,000.00		26,182,000.00

CONCLUSION

It is submitted that this Service Plan for the Stonegate Center Metropolitan District meets the requirements of the Control Act. It is further submitted that:

(a) There is sufficient existing and projected need for organized service in the area to be serviced by the District.

(b) The existing service in the area to be served by the District is inadequate for present and projected needs;

(c) Adequate service will not be available to the area through other existing municipal or quasi-municipal corporations within a reasonable time and on a comparable basis;

(d) The District is capable of providing economical and sufficient service to the area within its proposed boundaries;

(e) The area to be included in the District does have, and will have, the financial ability to discharge the proposed indebtedness on a reasonable basis;

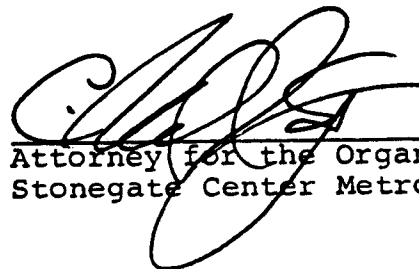
(f) The facility and service standards of the District are compatible with the facility and service standards of adjacent municipalities and special districts;

(g) The proposal is in substantial compliance with a master plan adopted pursuant to § 30-28-108, C.R.S. 1973; and

(h) The proposal is in compliance with any duly adopted county, regional, or state long-range water quality management plan for the area.

Therefore, it is requested that the Board of Commissioners of Douglas County, Colorado, adopt a Resolution approving the Service Plan for the Stonegate Center Metropolitan District as submitted.

By



Attorney for the Organizers of
Stonegate Center Metropolitan District