

CITY OF SIERRA VISTA
PROJECT REPORT
WASTEWATER MANAGEMENT
AND SEWERAGE MASTER PLAN
FINAL - AUGUST 1986

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W-010

City of Sierra Vista

RECEIVED

PROJECT REPORT

SEP 24 1986

Public Works

**WASTEWATER MANAGEMENT
AND SEWERAGE MASTER PLAN**

PRELIMINARY JULY 1985
FINAL AUG. 1986



Cheyne Owen, Ltd.

CONSULTING ENGINEERS
TUCSON, ARIZONA

Cheyne Owen, Ltd.
Consulting Engineers

Michael C.R. Owen, P.E., President
Allan R. Marshick, P.E., Vice Pres.

September 11, 1986

Mr. Michael J. Hemesath
City Engineer
City of Sierra Vista
2400 E. Tacoma Street
Sierra Vista, Arizona 85635

Subject: Final Project Report
City of Sierra Vista
Sewer System Master Plan

Dear Mr. Hemesath:

The final project report documenting the sewer system master plan for the greater Sierra Vista area incorporates City comments, together with work conducted by Cheyne Owen using the computer model installed on the City's IBM system 38 machine. The objectives of this report are to 1) describe this dynamic sewer system model, 2) examine engineering issues relating to wastewater conveyance and treatment throughout the study area 3) delineate specific improvements to the existing conveyance system and 4) plan for extensions and additions to the sewer system access the study area to saturation development.

The study was complex from a number of standpoints, and, overall criteria upon which the selected management plan was based, difficult to define and quantify. This report describes and selects appropriate criteria; financing of the major interceptors, trunks and treatment works remains to be resolved.

Of eight alternative wastewater management strategies, five were examined in detail, and, Alternative 2, expansion of

Mr. Michael J. Hemesath
September 11, 1986

facilities at Plant 2 selected as the most cost effective short term solution. Upgrading the Central interceptor was selected as the most cost effective and cost equitable system for improving the inner City conveyance system.

Very truly,

CHEYNE OWEN, LTD.



Michael C. R. Owen
Project Manager

City of Sierra Vista

Jean Randle, Mayor

William McCormick, Mayor Protem

Council

Ethel Berger

Francisco "Frank" Escobar

Virginia Gannon

Jeff Hass

Mike Hicks

City Staff

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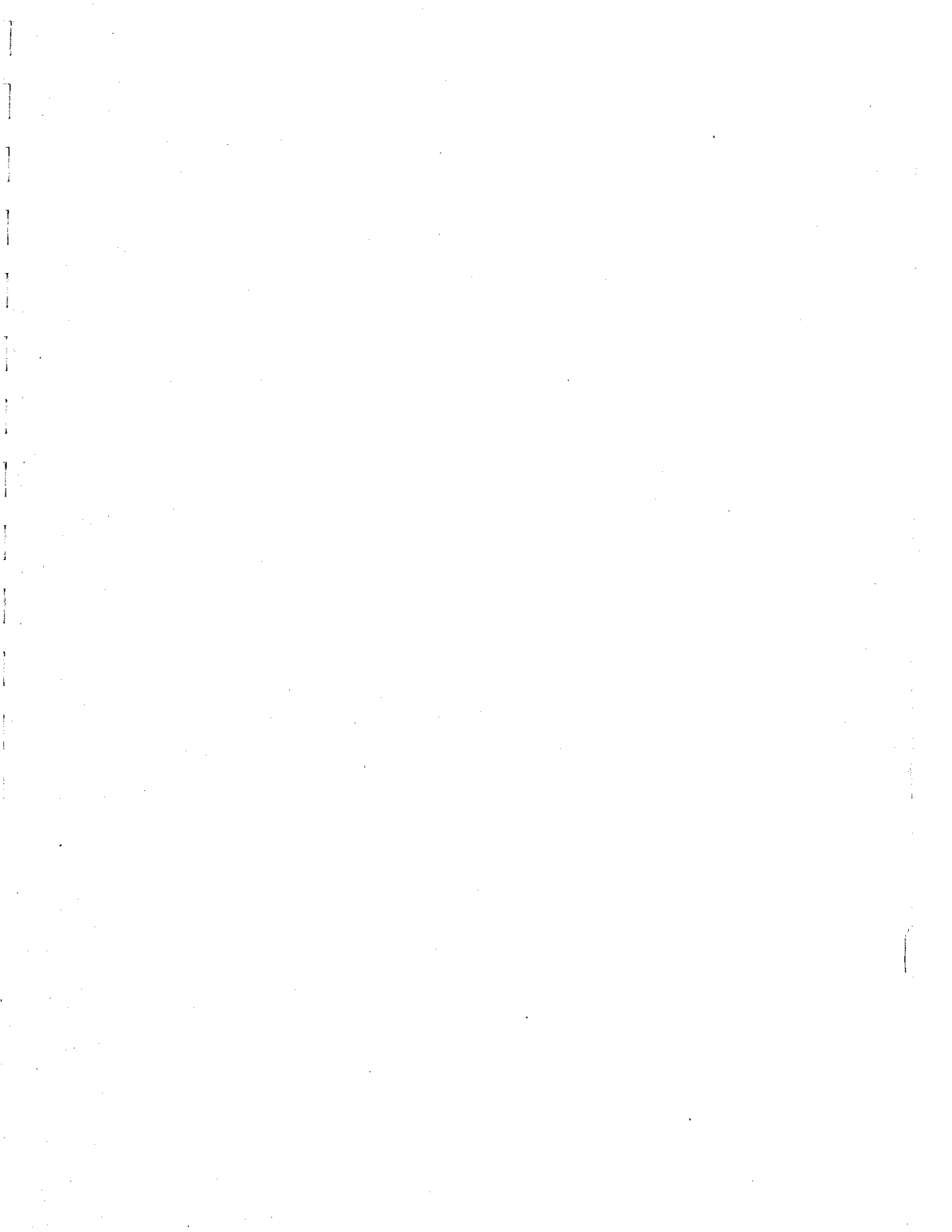
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CHAPTER 1

INTRODUCTION

Recognizing that present population growth exceeds previous estimates, and, to incorporate long range wastewater planning into the Sierra Vista 2000 plan the City of Sierra Vista in March of 1984 commissioned Cheyne Owen, Ltd., Consulting Engineers, to prepare a Sewer Master Plan for the greater Sierra Vista area.

The master plan describes essential elements of a computer software system developed specifically for this project, and, presents results of wastewater facilities planning for the entire study area. This document is designed as a dynamic planning tool that may be updated weekly, monthly or annually in response to the rapid and emerging development in and around the City of Sierra Vista.

SCOPE OF WORK

The sewer system master plan includes preparation of 1) computer software that models both present and future demographics and principal elements of the wastewater conveyance system, 2) a capital improvement plan for conveyance and treatment facilities and 3) information for updating the 208 area wide plan. An instruction manual for operating the computer software is available in a separate document.

STUDY AREA

The incorporated area of the City of Sierra Vista covers approximately seven sections of land, however, sewer master planning has been conducted in over one hundred sections, bounded by private land on the north, Ft. Huachuca on the north and west, San Pedro River on the east and, Nicksville and Forest Service land on the south, as shown in Figure 1-1. Although included in the original study area six and three quarter sections on the north boundary have been excluded from facilities planning due to imminent development and construction of a private collection and treatment system. Sections lying between Moson Road and the San Pedro River have been included in facilities planning even though detailed land use studies have not been conducted since this area will ultimately require integration into the wastewater management system, and is recommended for inclusion into the

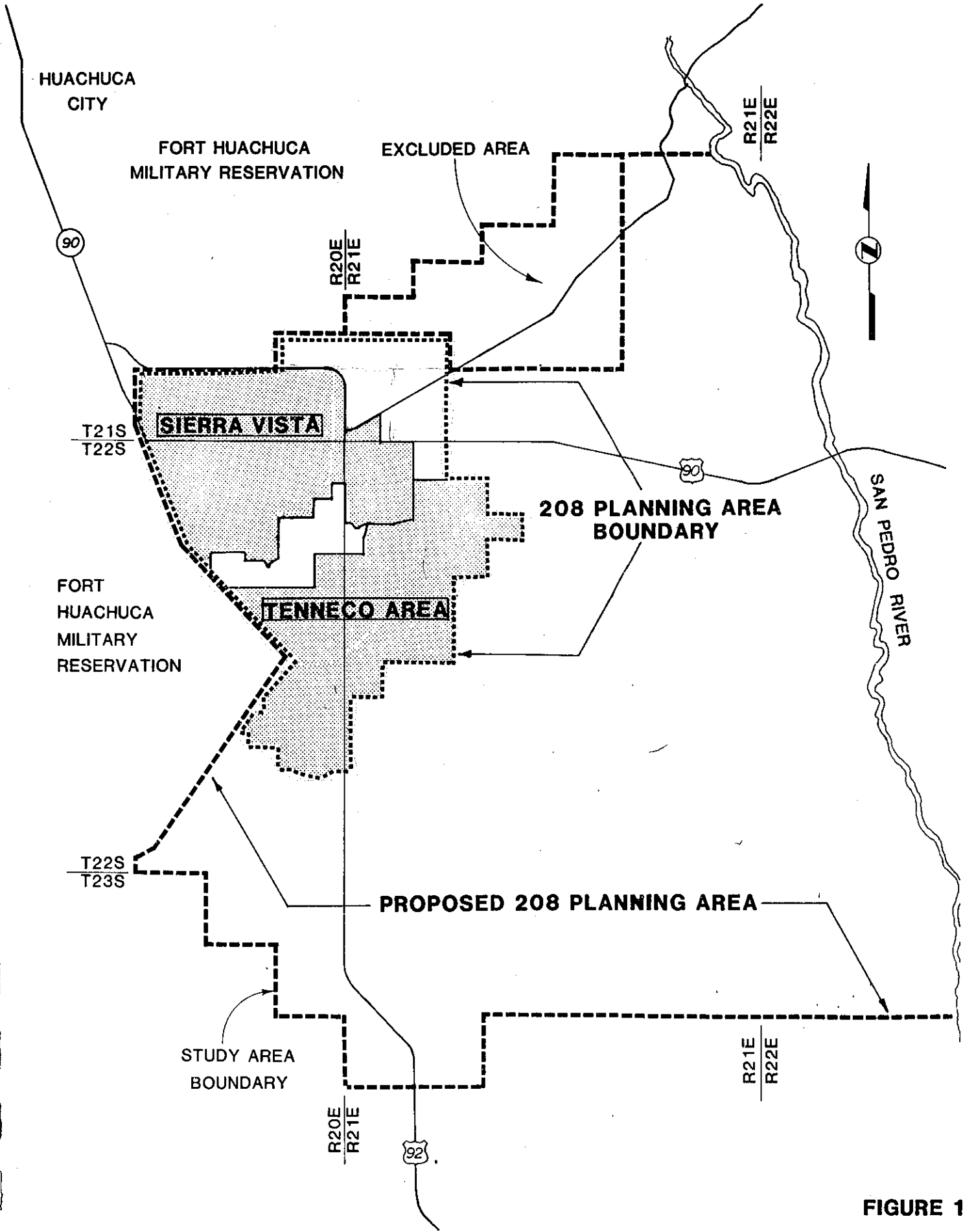


FIGURE 1-1

STUDY AREA BOUNDARY

City's 208 planning area. Figure 1-1 also shows the boundaries of the City's present 208 planning area and land under development by the Tenneco Corporation.

With 80 percent of the study area under present jurisdiction of Cochise County, planning authority for the entire study area will be vested in the City of Sierra Vista as part of the 208 plan to be updated by the Southeastern Council of Governments (SEAGO) using material in this Master Plan.

PLANNING PERIOD

The City of Sierra Vista determined that a planning period of 25 years commencing 1985 through to the year 2010 would be appropriate for the study area, however saturation development beyond 2010 has been utilized to actually proportion conveyance facilities, plan for integration of future wastewater systems and attain long term goals,

STUDY AREA CHARACTERISTICS

Several communities lie within, or adjacent to, the study area: the incorporated city area lies in the northwest corner and shares a common boundary with Ft. Huachuca while in the south, the small community of Nicksville borders Forest Service land and Highway 92. Between the north and south extremes of the study area, various sections of land have been developed as low density residential communities, predominantly to the west of Highway 92.

One of the unique features of this study area is that large tracts of land are owned or controlled by single entities, individuals or the State of Arizona. Thus, development as it occurs, is anticipated to proceed on the relatively large scale similar to that of the Tenneco Development Corporation operations immediately south of the incorporated area.

Geomorphology

The study area lies on alluvial plain of sedimentary deposits washed from the adjacent Huachuca Mountains. The plain is gently sloped toward the northeast with an average cross slope of between one and one and one-half percent across the north and center of the study area, and, at two percent in the Nicksville area to the south.

Across this alluvial fill, numerous creeks, washes and gulches convey storm run-off toward the northeast from the Huachuca Mountains and study area watersheds to the San Pedro River. Although many of these washes are relatively small, several are 25 feet deep while the lower portion of Garden Canyon Wash is 75 feet deep. This wash effectively divides the eastern portion of the study area near the center.

Because of the favorable ground slope, north-south and east-west section lines along which many trunks and intersector will be aligned have an adequate fall from south to north for conveyance of wastewater.

Recreational Facilities

Much of the land within city limits, and, study area at large remains undeveloped. City parks, recreational areas and private golf courses presently total 380 acres; city staff have estimated that an additional 120 acres is likely to be developed for parks over the next twenty to thirty years. This future total of 500 acres would serve 100,000 persons over 30 sections of land and represents approximately 2.6 percent of land use.

Wastewater Collection System

Three privately owned wastewater collection systems are operated within the study area in addition to the City system. The City of Sierra Vista operates the largest system which covers ten Sections within the incorporated area; Tenneco Development Corporation has constructed part of their planned system (for more than eight Sections) on the south and east of the city area.

The Cloud 9 and Golden Acres collection systems serve mobile home parks and in the case of Cloud 9 a two story apartment complex. Both the Tenneco and Cloud 9 systems are under contract to be absorbed into the City system in the near future.

Because of the relatively small size of sewered areas and favorable ground slopes, all collection systems consist of small diameter pipes of between 8 and 18-inches in diameter. The only large sewer, constructed by the City in 1973 from funds provided by an EPA grant has an average diameter of between 27 inches and 30 inches and conveys flow from three Sections of Tenneco's land following an alignment of the range line one mile east of Highway 92. This pipeline was designed to serve the needs of the entire Tenneco development at ultimate buildout.

Several small unincorporated areas lie within the present city limits and are unsewered. The old town of Fry lies on the southeast corner of Section 34, T. 21 S., R. 20 E. Predominantly residential, the north half of this area has been sewered, however the south half is predominantly commercial and is served by individual septic tank systems, many of which have failed and present a health hazard. The State of Arizona owns approximately 400 acres in Section 2, T. 22 S, R. 20 E. near the center of the city and 600 acres in Section 36 T21S, R21E both of which are largely undeveloped. Section 2 may be available for private development in the near future as a result of a land exchange presently under negotiation.

Wastewater Treatment Plants

The City of Sierra Vista operates two wastewater treatment plants both utilizing oxidation ponds. The "old" city wastewater treatment plant (plant 1) is located in the west half of Section 32, T. 21 S., R. 21 E. while a recently constructed facility (plant 2) lies in Section 34. Cloud Nine Wastewater Treatment Plant consists of two small lagoons at the east corner quarter of Section 6, T. 22 S., R. 21 E. This treatment facility will be retired in the near future when connections are made to the City of Sierra Vista's collection system.

The Golden Acres wastewater Treatment plant also consists of two small lagoons located in Section 20, T. 22 S., R. 21 E. This facility serves a small trailer park to the west.

HISTORICAL PLANNING ACTIVITIES

Following incorporation in 1956, the first wastewater treatment plant constructed by the City consisted of a trickling filter and small oxidation pond near the present City maintenance yard in the northwest corner of Section 34, T21S, R20E. By 1967 the trickling filter was retired and three larger oxidation ponds constructed in Section 32, T21S, R21E, to serve a population of 6,000 persons. In 1972 three more ponds were constructed to bring plant capacity to nearly 1 mgd. Discharge from this plant, into Coyote Wash, dictated the need for a non-pollutant discharge elimination system permit (NPDES) in 1974. However, effluent quality of 30:90 milligrams per liter was not always achieved.

In June of 1978 under an Environmental Protection Agency (EPA) grant both a 201 facility plan and 208 water quality management plan were prepared by a consultant and the Southeastern Council of Governments (SEAGO) respectively. Both plans were initiated in compliance with Sections 201 and 208 of the Water Pollution Control Act Amendment of 1972 (PL 95-200) as

amended by the Clean Water Act of 1977 (PL 95-217). The combined planning effort was primarily directed toward upgrading the City's treatment facility in Section 32 to comply with EPA discharge regulations, and, to provide capacity for a future population of 41,451, projected for the year 2000, within the City's existing service area. At that time populations, past, present and future were estimated as follows:

<u>Year</u>	<u>Population Estimate</u>
1975	12,624
1980	20,240
1990	32,456
2000	41,451

Later in 1978, on completion of the Facility Plan, the City of Sierra Vista was designated by the Governor of the State of Arizona as the waste management agency for the greater Sierra Vista area shown in Figure 1-1. The City of Sierra Vista, as required by such designation, proceeded to implement recommendations contained in the facility plan prepared earlier that year.

Under a grant from the EPA, the City completed the renovation of the wastewater treatment plant in Section 32 and constructed a new wastewater treatment plant and land irrigation system in Section 34. Combined facilities in both new and old plants were designed to treat approximately 2.9 million gallons per day of wastewater with zero discharge to any stream channel. Monitoring and analytical sampling have established that the combined facility complies with EPA and Arizona Department of Health Services (ADHS) standards and regulations.

In 1980 the City of Sierra Vista through Cochise County obtained a community block development grant from the U.S. Department of Housing and Urban Development (HUD) and constructed a wastewater collection system for the northern portion of the unincorporated Fry townsite. Fry was one of the areas identified in both by the Facility Plan and the Water Quality Management Plan as a pollution source. The primarily residential area is densely populated and at that time utilized private septic systems many of which had failed. The south half of Fry however remains unserved.

In 1978 the City obtained a grant to prepare construction documentation and is presently seeking a construction grant to finance an interceptor sewer system for both Town and Country and Village Meadows subdivisions which are located in the southern portion of the incorporated area. This project lies on the state priority list for grant funding in the 1990 period.

In 1975 the Tenneco Corporation, a large land owner and developer to the south of the city, sought to expand its then existing service area. Part of the expansion overlapped the City's sewer service area and the City filed an objection with the Arizona Corporation Commission. It was also determined that most of the growth within the Sierra Vista urban area was occurring in the Tenneco subdivision rather than in the City service area as projected by the City's facility plan.

The City and Tenneco Corporation entered into a series of negotiations in an effort to settle the question of service area boundaries. Negotiations resulted in an agreement between the City and Tenneco that called for the City to acquire the Tenneco sewerage system and to treat the sewage at the City's treatment facility. This consolidation was of mutual benefit because it expanded the tributary service area of the City's treatment facility, as projected in the planning documents, and provided a more efficient customer base for financing operation of the conveyance and treatment systems. The State of Arizona subsequently amended the City's 208 Water Quality Management Plan boundaries to include the Tenneco service area. Tenneco received approval of the transfer of the sewer collection system to the City system in May of 1985.

The facility plan and water quality management plan also identified a then unincorporated area known as Cloud Nine Trailer Park and Motel as a problem area that should be consolidated into the City collection and treatment system. The Cloud Nine system, served by two stabilization ponds that did not conform to EPA standards, suffered from maintenance problems due to a small customer base financing the system. The City initiated negotiations with the owner, and, in 1983 executed an agreement to acquire the collection system and connect to the City's conveyance system. Work is presently underway to complete this work.

As the area wide waste management agency the City of Sierra Vista recognized the need for longer range sewer system planning in conjunction with other utility planning efforts already in progress. The City of Sierra Vista therefore commissioned this study to develop a wastewater conveyance system beyond the

present service area currently designated and plan for expansion of the treatment system to serve the projected 25 year urban growth pattern. This plan will also incorporate the Golden Acres system and indicate a goal for consolidating all present and future systems into a viable efficient and economically centralized wastewater conveyance and treatment management plan for the entire Sierra Vista area.

ZONE NAME: F1801 DATA ACTIVE: 2015

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .20

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	148.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	307.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	8.80	156.80	39.20	444.00	640.00
END ACRES	0.00	0.00	0.00	23.20	330.60	82.60	226.80	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	148.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	179.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	211.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	243.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	275.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	307.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	8.80	156.80	39.15	444.05	640.00
1990	0.00	0.00	0.00	11.68	191.56	47.84	400.60	640.00
1995	0.00	0.00	0.00	14.56	226.32	56.53	357.15	640.00
2000	0.00	0.00	0.00	17.44	261.08	65.22	313.70	640.00
2005	0.00	0.00	0.00	20.32	295.84	73.91	270.25	640.00
2010	0.00	0.00	0.00	23.20	330.60	82.60	226.80	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	104	0.017	0.054	0.093
1990	126	0.021	0.067	0.115
1995	148	0.026	0.080	0.137
2000	171	0.030	0.093	0.159
2005	193	0.035	0.106	0.180
2010	215	0.039	0.119	0.202
SATURATION	358	0.027	0.076	0.204

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	95.60	757.80	86.10	15.40	206.50	132.40	0.00
1990	2,106.93	672.69	1,138.62	153.94	42.64	289.45	173.92	0.00
1995	2,441.36	1,031.57	1,442.09	214.31	43.68	294.54	214.25	0.00
2000	3,139.18	1,671.20	2,982.39	314.14	44.72	302.99	282.43	0.00
2005	3,462.59	1,850.52	3,465.54	356.76	45.76	314.59	317.67	0.00
2010	3,735.20	2,000.30	3,705.40	381.00	46.80	332.10	348.70	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	18.40	5.10	63.50	339.70	1,720.50	629.38	2,745.54	5,095.40
1990	18.92	26.07	64.99	868.16	5,556.36	1,990.44	11,305.67	18,852.50
1995	19.43	40.71	82.48	1,102.36	6,926.80	2,333.03	9,752.66	19,012.50
2000	19.92	51.53	130.10	1,533.90	10,472.52	3,219.43	5,320.55	19,012.50
2005	20.41	60.27	131.58	1,729.29	11,754.99	3,540.11	3,717.50	19,012.50
2010	20.90	68.30	131.70	1,872.70	12,643.10	3,762.08	2,607.32	19,012.50

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	21,004	1.985	4.975	5.447
1990	40,842	4.001	10.181	11.695
1995	50,952	4.991	12.587	14.436
2000	82,595	7.793	18.806	21.549
2005	93,097	8.780	20.903	23.957
2010	99,643	9.412	22.249	25.533

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	2,796.30	455.40	872.80	86.10	41.60	285.90	133.20	0.00
1990	3,222.12	697.05	1,163.31	160.27	42.64	289.45	173.92	0.00
1995	3,733.42	1,098.32	1,509.70	231.65	43.68	294.54	214.25	0.00
2000	4,696.41	1,811.77	3,124.79	350.64	44.72	302.99	282.43	0.00
2005	5,431.05	2,119.64	3,738.15	426.64	45.76	314.59	317.67	0.00
2010	6,358.30	2,493.20	4,204.70	509.00	46.80	332.10	348.70	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	18.40	5.10	63.50	687.20	5,445.50	2,043.14	28,516.31	36,004.90
1990	18.92	26.07	64.99	904.77	6,763.53	2,372.56	26,868.78	36,004.90
1995	19.43	40.71	82.48	1,116.92	8,385.14	2,777.99	24,841.76	36,004.90
2000	19.92	51.53	130.10	1,551.34	12,366.69	3,773.35	19,864.87	36,004.90
2005	20.41	60.27	131.58	1,749.61	14,355.38	4,270.57	17,379.05	36,004.90
2010	20.90	68.30	131.70	1,895.90	16,409.60	4,784.08	14,811.22	36,004.90

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	35,292	3.401	8.735	10.236
1990	44,604	4.320	11.059	12.889
1995	56,265	5.403	13.687	15.917
2000	90,524	8.404	20.348	23.583
2005	105,470	9.728	23.138	26.857
2010	119,608	10.930	25.587	29.828
SATURATION	199,858	17.642	39.673	46.864

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ZONDATA1

GENERAL STUDY DATA

RUN 7-30-85 AT 16:36:53

PAGE 1

NUMBER OF ZONES: 55

STUDY TIME INCREMENT: 5

DATA BEGIN YEAR: 1985

STUDY BEGIN YEAR: 1985

DATA END YEAR: 2010

STUDY END YEAR: 2010

POPULATION DENSITIES
(PERSONS/ACRE)

TYPE D1: 3.50

RESIDENTIAL GALLONS/CAP/DAY: 75.00

TYPE D2: 6.60

COMMERCIAL GALLONS/ACRE/DAY: 1,000.00

TYPE D4: 13.50

INFILTRATION GALLONS/DAY: 200.00

TYPE D5: 15.20

TYPE D6: 17.10

TYPE D7: 18.60

TYPE D11: 18.00

TYPE D12: 23.00

TYPE D15: 25.80

TYPE D17: 25.00

TYPE D20: 27.50

ZONE NAME: A1301 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 420.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	336.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	420.00	420.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	420.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	336.00	84.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	420.00	420.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	420.00	420.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	420.00	420.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	420.00	420.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	420.00	420.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	420.00	420.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	588	0.044	0.115	0.199

ZONE NAME: A1401 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: A2301 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: A2401 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	482.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	30.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	844	0.093	0.209	0.337

ZONE NAME: A2501 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: A2601 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: A3501 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: A3601 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	HNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	HNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: D0101 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	482.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	30.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	844	0.093	0.209	0.337

ZONE NAME: D0201 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20 TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: D0301 DATA ACTIVE: 2015

PROJECTION MODE: GEOM

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	287.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	75.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	3,030	0.302	0.606	0.734

ZONE NAME: D1001 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	502.00	0.00	27.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	10.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,061	0.090	0.208	0.336

ZONE NAME: D1101 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: D1201 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5				
	0.000	0.000	0.000	0.000	0.000				
	D1	D2	D4	D5	D6	D7	D11	D12	
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00		

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: D1301 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: D1401 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: D1501 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	157.00	0.00	27.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	11.00	195.00	445.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	914	0.080	0.187	0.315

ZONE NAME: D2201 DATA ACTIVE: 2015

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	374.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
END ACRES	0.00	0.00	0.00	0.00	128.00	32.00	480.00	
SATURATION ACRES	0.00	0.00	0.00	10.00	384.00	256.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
1990	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
1995	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
2000	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
2005	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
2010	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	224	0.017	0.052	0.084
1990	224	0.017	0.052	0.084
1995	224	0.017	0.052	0.084
2000	224	0.017	0.052	0.084
2005	224	0.017	0.052	0.084
2010	224	0.017	0.052	0.084
SATURATION	655	0.059	0.144	0.272

ZONE NAME: D2301 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5				
	0.000	0.000	0.000	0.000	0.000				
	D1	D2	D4	D5	D6	D7	D11	D12	
BEGIN ACRES	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
END ACRES	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SATURATION ACRES	374.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	
BEGIN ACRES	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00	
END ACRES	0.00	0.00	0.00	0.00	128.00	32.00	480.00		
SATURATION ACRES	0.00	0.00	0.00	10.00	384.00	256.00	0.00		

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
1990	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
1995	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
2000	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
2005	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
2010	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	224	0.017	0.052	0.084
1990	224	0.017	0.052	0.084
1995	224	0.017	0.052	0.084
2000	224	0.017	0.052	0.084
2005	224	0.017	0.052	0.084
2010	224	0.017	0.052	0.084
SATURATION	655	0.059	0.144	0.272

ZONE NAME: D2401 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	482.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	30.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	844	0.093	0.209	0.337

ZONE NAME: D2501 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONDATA1

ZONE INPUT DATA

RUN 7-30-85 AT 16:36:53

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ZONE NAME: D2601 DATA ACTIVE: 2015

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 320.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .20

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5				
	0.000	0.000	0.000	0.000	0.000				
	D1	D2	D4	D5	D6	D7	D11	D12	
BEGIN ACRES	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
END ACRES	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SATURATION ACRES	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL	
BEGIN ACRES	0.00	0.00	0.00	0.00	256.00	64.00	0.00	320.00	
END ACRES	0.00	0.00	0.00	0.00	256.00	64.00	0.00		
SATURATION ACRES	0.00	0.00	0.00	0.00	256.00	64.00	0.00		

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	
1985	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1990	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1995	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2005	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2010	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL	
1985	0.00	0.00	0.00	0.00	256.00	64.00	0.00	320.00	
1990	0.00	0.00	0.00	0.00	256.00	64.00	0.00	320.00	
1995	0.00	0.00	0.00	0.00	256.00	64.00	0.00	320.00	
2000	0.00	0.00	0.00	0.00	256.00	64.00	0.00	320.00	
2005	0.00	0.00	0.00	0.00	256.00	64.00	0.00	320.00	
2010	0.00	0.00	0.00	0.00	256.00	64.00	0.00	320.00	

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	896	0.013	0.033	0.097
1990	896	0.013	0.033	0.097
1995	896	0.013	0.033	0.097
2000	896	0.013	0.033	0.097
2005	896	0.013	0.033	0.097
2010	896	0.013	0.033	0.097
SATURATION	896	0.013	0.033	0.097

ZONE NAME: D2602 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 320.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5				
	0.000	0.000	0.000	0.000	0.000				
	D1	D2	D4	D5	D6	D7	D11	D12	
BEGIN ACRES	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	187.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	
BEGIN ACRES	0.00	0.00	0.00	0.00	64.00	16.00	240.00	320.00	
END ACRES	0.00	0.00	0.00	0.00	64.00	32.00	224.00		
SATURATION ACRES	0.00	0.00	0.00	5.00	192.00	128.00	0.00		

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12		
1985	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1990	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1995	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2005	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2010	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL		
1985	0.00	0.00	0.00	0.00	64.00	32.00	224.00	320.00		
1990	0.00	0.00	0.00	0.00	64.00	32.00	224.00	320.00		
1995	0.00	0.00	0.00	0.00	64.00	32.00	224.00	320.00		
2000	0.00	0.00	0.00	0.00	64.00	32.00	224.00	320.00		
2005	0.00	0.00	0.00	0.00	64.00	32.00	224.00	320.00		
2010	0.00	0.00	0.00	0.00	64.00	32.00	224.00	320.00		

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	112	0.008	0.029	0.048
1990	112	0.008	0.029	0.048
1995	112	0.008	0.029	0.048
2000	112	0.008	0.029	0.048
2005	112	0.008	0.029	0.048
2010	112	0.008	0.029	0.048
SATURATION	327	0.030	0.079	0.143

ZONE NAME: D2701 DATA ACTIVE: 2015

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	502.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	10.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,757	0.142	0.312	0.440

ZONE NAME: D3401 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5				
	0.000	0.000	0.000	0.000	0.000				
	D1	D2	D4	D5	D6	D7	D11	D12	
BEGIN ACRES	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
END ACRES	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SATURATION ACRES	502.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	
BEGIN ACRES	0.00	0.00	0.00	0.00	320.00	80.00	240.00	640.00	
END ACRES	0.00	0.00	0.00	0.00	320.00	80.00	240.00		
SATURATION ACRES	0.00	0.00	0.00	10.00	512.00	128.00	0.00		

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	320.00	80.00	240.00	640.00
1990	0.00	0.00	0.00	0.00	320.00	80.00	240.00	640.00
1995	0.00	0.00	0.00	0.00	320.00	80.00	240.00	640.00
2000	0.00	0.00	0.00	0.00	320.00	80.00	240.00	640.00
2005	0.00	0.00	0.00	0.00	320.00	80.00	240.00	640.00
2010	0.00	0.00	0.00	0.00	320.00	80.00	240.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	1,120	0.084	0.200	0.280
1990	1,120	0.084	0.200	0.280
1995	1,120	0.084	0.200	0.280
2000	1,120	0.084	0.200	0.280
2005	1,120	0.084	0.200	0.280
2010	1,120	0.084	0.200	0.280
SATURATION	1,757	0.142	0.312	0.440

ZONE NAME: D3501 DATA ACTIVE: 2015

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 320.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .20

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	256.00	64.00	0.00	320.00
END ACRES	0.00	0.00	0.00	0.00	256.00	64.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	256.00	64.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	256.00	64.00	0.00	320.00
1990	0.00	0.00	0.00	0.00	256.00	64.00	0.00	320.00
1995	0.00	0.00	0.00	0.00	256.00	64.00	0.00	320.00
2000	0.00	0.00	0.00	0.00	256.00	64.00	0.00	320.00
2005	0.00	0.00	0.00	0.00	256.00	64.00	0.00	320.00
2010	0.00	0.00	0.00	0.00	256.00	64.00	0.00	320.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	179	0.013	0.043	0.107
1990	179	0.013	0.043	0.107
1995	179	0.013	0.043	0.107
2000	179	0.013	0.043	0.107
2005	179	0.013	0.043	0.107
2010	179	0.013	0.043	0.107
SATURATION	179	0.013	0.043	0.107

ZONE NAME: D3502 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 320.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5				
	0.000	0.000	0.000	0.000	0.000				
	D1	D2	D4	D5	D6	D7	D11	D12	
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SATURATION ACRES	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	320.00	320.00	
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	320.00		
SATURATION ACRES	0.00	0.00	0.00	0.00	256.00	64.00	0.00		

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	
1985	0.00	0.00	0.00	0.00	0.00	0.00	320.00	320.00	
1990	0.00	0.00	0.00	0.00	0.00	0.00	320.00	320.00	
1995	0.00	0.00	0.00	0.00	0.00	0.00	320.00	320.00	
2000	0.00	0.00	0.00	0.00	0.00	0.00	320.00	320.00	
2005	0.00	0.00	0.00	0.00	0.00	0.00	320.00	320.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	320.00	320.00	

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	448	0.034	0.092	0.156

ZONE NAME: D3601 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: F0101 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: F0201 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	20.00	0.00	620.00	640.00
END ACRES	0.00	0.00	0.00	0.00	20.00	0.00	620.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	20.00	0.00	620.00	640.00
1990	0.00	0.00	0.00	0.00	20.00	0.00	620.00	640.00
1995	0.00	0.00	0.00	0.00	20.00	0.00	620.00	640.00
2000	0.00	0.00	0.00	0.00	20.00	0.00	620.00	640.00
2005	0.00	0.00	0.00	0.00	20.00	0.00	620.00	640.00
2010	0.00	0.00	0.00	0.00	20.00	0.00	620.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	35	0.003	0.009	0.013
1990	35	0.003	0.009	0.013
1995	35	0.003	0.009	0.013
2000	35	0.003	0.009	0.013
2005	35	0.003	0.009	0.013
2010	35	0.003	0.009	0.013
SATURATION	896	0.067	0.165	0.293

ZONE NAME: F0301 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .60

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	502.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	10.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,054	0.089	0.207	0.335

ZONE NAME: F1101 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	30.00	0.00	610.00	640.00
END ACRES	0.00	0.00	0.00	0.00	30.00	0.00	610.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	30.00	0.00	610.00	640.00
1990	0.00	0.00	0.00	0.00	30.00	0.00	610.00	640.00
1995	0.00	0.00	0.00	0.00	30.00	0.00	610.00	640.00
2000	0.00	0.00	0.00	0.00	30.00	0.00	610.00	640.00
2005	0.00	0.00	0.00	0.00	30.00	0.00	610.00	640.00
2010	0.00	0.00	0.00	0.00	30.00	0.00	610.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	53	0.004	0.014	0.020
1990	53	0.004	0.014	0.020
1995	53	0.004	0.014	0.020
2000	53	0.004	0.014	0.020
2005	53	0.004	0.014	0.020
2010	53	0.004	0.014	0.020
SATURATION	896	0.067	0.165	0.293

ZONE NAME: F1201 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	15.00	0.00	625.00	640.00
END ACRES	0.00	0.00	0.00	0.00	15.00	0.00	625.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	15.00	0.00	625.00	640.00
1990	0.00	0.00	0.00	0.00	15.00	0.00	625.00	640.00
1995	0.00	0.00	0.00	0.00	15.00	0.00	625.00	640.00
2000	0.00	0.00	0.00	0.00	15.00	0.00	625.00	640.00
2005	0.00	0.00	0.00	0.00	15.00	0.00	625.00	640.00
2010	0.00	0.00	0.00	0.00	15.00	0.00	625.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	26	0.002	0.007	0.010
1990	26	0.002	0.007	0.010
1995	26	0.002	0.007	0.010
2000	26	0.002	0.007	0.010
2005	26	0.002	0.007	0.010
2010	26	0.002	0.007	0.010
SATURATION	896	0.067	0.165	0.293

ZONE NAME: G0401 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 510.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	408.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	510.00	510.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	510.00	510.00
SATURATION ACRES	0.00	0.00	0.00	0.00	408.00	102.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	510.00	510.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	510.00	510.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	510.00	510.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	510.00	510.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	510.00	510.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	510.00	510.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	714	0.054	0.136	0.238

ZONE NAME: G0501 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: G0601 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	482.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	30.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	844	0.093	0.209	0.337

ZONE NAME: G0701 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5						
	0.000	0.000	0.000	0.000	0.000						
	D1	D2	D4	D5	D6	D7	D11	D12			
BEGIN ACRES	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
END ACRES	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL			
BEGIN ACRES	0.00	0.00	0.00	0.00	15.00	0.00	625.00	640.00			
END ACRES	0.00	0.00	0.00	0.00	15.00	0.00	625.00				
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00				

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	15.00	0.00	625.00	640.00
1990	0.00	0.00	0.00	0.00	15.00	0.00	625.00	640.00
1995	0.00	0.00	0.00	0.00	15.00	0.00	625.00	640.00
2000	0.00	0.00	0.00	0.00	15.00	0.00	625.00	640.00
2005	0.00	0.00	0.00	0.00	15.00	0.00	625.00	640.00
2010	0.00	0.00	0.00	0.00	15.00	0.00	625.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	26	0.002	0.007	0.010
1990	26	0.002	0.007	0.010
1995	26	0.002	0.007	0.010
2000	26	0.002	0.007	0.010
2005	26	0.002	0.007	0.010
2010	26	0.002	0.007	0.010
SATURATION	896	0.067	0.165	0.293

ZONE NAME: G0801 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: G0901 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 480.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	384.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	480.00	480.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	480.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	384.00	96.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	480.00	480.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	480.00	480.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	480.00	480.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	480.00	480.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	480.00	480.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	480.00	480.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	672	0.050	0.129	0.225

ZONE NAME: H0501 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 60.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	48.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00
SATURATION ACRES	0.00	0.00	0.00	0.00	48.00	12.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	168	0.013	0.041	0.053

ZONE NAME: H0601 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 580.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	464.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	580.00	580.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	580.00	580.00
SATURATION ACRES	0.00	0.00	0.00	0.00	464.00	116.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	580.00	580.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	580.00	580.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	580.00	580.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	580.00	580.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	580.00	580.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	580.00	580.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	812	0.061	0.152	0.268

ZONE NAME: H0701 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: H0801 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	128.00	0.00	27.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	160.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	128.00	32.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	406	0.030	0.085	0.117

ZONE NAME: H1701 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 260.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .20

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	208.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
SATURATION ACRES	0.00	0.00	0.00	0.00	208.00	52.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	146	0.011	0.036	0.088

ZONE NAME: H1801 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: H1901 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: H2001 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 260.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	208.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	260.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	208.00	52.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	364	0.027	0.077	0.129

ZONE NAME: H2B01 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 60.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	48.00	0.00	27.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00
SATURATION ACRES	0.00	0.00	0.00	0.00	48.00	12.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	266	0.020	0.059	0.071

ZONE NAME: H2901 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 580.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	464.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	580.00	580.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	580.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	464.00	116.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	580.00	580.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	580.00	580.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	580.00	580.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	580.00	580.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	580.00	580.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	580.00	580.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	812	0.061	0.152	0.268

ZONE NAME: H3001 DATA ACTIVE: 2015 PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: H3101 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: H3201 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	896	0.067	0.165	0.293

ZONE NAME: H3301 DATA ACTIVE: 2015 PROJECTION MODE: LOSS

CURVE CONSTANT: .20

TOTAL ACRES: 260.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	208.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	260.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	208.00	52.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	260.00	260.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	364	0.027	0.077	0.129

ZONE NAME: J3001 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 380.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	304.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	HVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	380.00	380.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	380.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	304.00	76.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	HVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	380.00	380.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	380.00	380.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	380.00	380.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	380.00	380.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	380.00	380.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	380.00	380.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	532	0.040	0.106	0.182

ZONE NAME: J3101 DATA ACTIVE: 2015

PROJECTION MODE: LOGS

CURVE CONSTANT: .20

TOTAL ACRES: 450.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	450.00	450.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	450.00	450.00
SATURATION ACRES	0.00	0.00	0.00	0.00	360.00	90.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	450.00	450.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	450.00	450.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	450.00	450.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	450.00	450.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	450.00	450.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	450.00	450.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	630	0.047	0.122	0.212

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	GIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	1,232.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	1,232.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	1,232.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	1,232.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	1,232.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	1,232.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MMA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	1,232.00	304.00	28,524.00	30,060.00
1990	0.00	0.00	0.00	0.00	1,232.00	304.00	28,524.00	30,060.00
1995	0.00	0.00	0.00	0.00	1,232.00	304.00	28,524.00	30,060.00
2000	0.00	0.00	0.00	0.00	1,232.00	304.00	28,524.00	30,060.00
2005	0.00	0.00	0.00	0.00	1,232.00	304.00	28,524.00	30,060.00
2010	0.00	0.00	0.00	0.00	1,232.00	304.00	28,524.00	30,060.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	2,895	0.163	0.446	0.753
1990	2,895	0.163	0.446	0.753
1995	2,895	0.163	0.446	0.753
2000	2,895	0.163	0.446	0.753
2005	2,895	0.163	0.446	0.753
2010	2,895	0.163	0.446	0.753
SATURATION	45,879	3.652	8.780	14.792

APPENDIX 3 - SEWSYST PRINTOUT



SEWER NAME: SA001 SECTION #: 31 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.004	0		.013	.53

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
A3104	1	2
SD007	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	1915	139.9	19.7	.163	.377	.417	.53
1990	2384	168.94	27.19	.206	.466	.515 *	.53
1995	2687	187.66	32	.233	.523 *	.578 *	.53
2000	2881	199.72	35.11	.251	.56 *	.613 *	.53
2005	3007	207.49	37.11	.263	.583 *	.644 *	.53
2010	3088	212.5	38.4	.27	.598 *	.661 *	.53
SAT	3088	212.5	38.4	.27	.598 *	.661 *	.53

SEWER NAME: SA002 SECTION #: 31 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.0065	0		.013	.68

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
A3001	.3	4
A3101	1	
B3602	1	
SA036	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	15.2	.015 *	.046 *	.049 *	.68
1990	300	195.65	52.43	.075	.201	.264	.68
1995	497	231.77	90.47	.128	.349	.43	.68
2000	822	276.36	145.85	.207	.568	.674 *	.68
2005	1061	315.3	188.9	.268	.734 *	.86 *	.68
2010	1251	351	226.2	.319	.873 *	1.018 *	.68
SAT	5274	497.3	238.2	.633 *	1.469 *	1.647 *	.68

SEWER NAME: SA003 SECTION #: 31 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
12	0	.0035	0		.013	1.46

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
A3102	1	2
SA002	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1935	0	0	22	.022 #	.066 #	.072 #	1.46
1990	363	199.13	79.39	.107 #	.294	.364	1.46
1995	622	238.73	137.59	.185	.512	.607	1.46
2000	1010	286.8	213.13	.288	.8	.926	1.46
2005	1312	329.22	276.34	.374	1.035	1.187	1.46
2010	1564	368.4	333.8	.45	1.244	1.42 #	1.46
SAT	5587	514.7	345.8	.764	1.832 #	2.042 #	1.46

SEWER NAME: SA004 SECTION #: 31 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.0028	0		.013	.44

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
A3103	1	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	246	18.2	0	.018 #	.056	.06	.44
1990	246	18.2	0	.018 #	.056	.06	.44
1995	246	18.2	0	.018 #	.056	.06	.44
2000	246	18.2	0	.018 #	.056	.06	.44
2005	246	18.2	0	.018 #	.056	.06	.44
2010	246	18.2	0	.018 #	.056	.06	.44
SAT	246	18.2	0	.018 #	.056	.06	.44

SEWER NAME: SA005 SECTION #: 31 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
15	0	.0096	0		.013	4.2

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
SB023	1	1

YEAR	POPS	TRAS	CIAS	ADWFS	POWFS	PWWFS	CAP
1985	10122	682.12	180.44	.977	2.041	2.279	4.2
1990	12160	827.36	240.9	1.19	2.473	2.766	4.2
1995	13173	885.11	275.18	1.3	2.7	3.015	4.2
2000	15336	1026.14	330.53	1.516	3.127	3.492	4.2
2005	16402	1092.62	362.62	1.629	3.351	3.74	4.2
2010	16999	1127.79	389.07	1.701	3.501	3.906 *	4.2
SAT	19354	1237.54	464.56	1.952	4.007 *	4.449 *	4.2

SEWER NAME: SA006 SECTION #: 31 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.0069	0		.013	1.26

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
S3025	1	2
SB026	1	

YEAR	POPS	TRAS	CIAS	ADWFS	POWFS	PWWFS	CAP
1985	3920	297.08	91.76	.419	.971	1.074	1.26
1990	5453	461.61	164.7	.608	1.392 *	1.559 *	1.26
1995	5766	485.12	199.04	.664	1.536 *	1.717 *	1.26
2000	6653	565.68	229.16	.776	1.766 *	1.975 *	1.26
2005	7334	602.01	250.73	.834	1.892 *	2.115 *	1.26
2010	7576	620.94	271.25	.873	1.985 *	2.217 *	1.26
SAT	8592	666.17	290.06	.967	2.169 *	2.415 *	1.26

SEWER NAME: SA007 SECTION #: 31 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
18	0	.006	0		.013	5.65

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
SA005	1	2
SA006	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	14042	979.2	272.2	1.396	2.896	3.237	5.65
1990	17613	1288.97	405.6	1.798	3.724	4.183	5.65
1995	18939	1370.23	474.22	1.964	4.087	4.584	5.65
2000	22189	1591.82	559.69	2.292	4.726	5.299 *	5.65
2005	23735	1694.63	613.35	2.463	5.067	5.68 *	5.65
2010	24574	1749.73	660.33	2.574	5.306 *	5.944 *	5.65
SAT	27947	1903.71	754.63	2.919	5.979 *	6.667 *	5.65

SEWER NAME: SA008 SECTION #: 32 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
15	6	.012	0		.013	4.4

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
SA003	1	2
SA004	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	246	18.2	22	.04 *	.122 *	.132 *	4.4
1990	609	217.33	79.39	.125 *	.338 *	.412 *	4.4
1995	868	256.93	137.59	.202 *	.553	.652	4.4
2000	1256	305	213.13	.306 *	.839	.969	4.4
2005	1558	347.42	276.34	.392 *	1.072	1.229	4.4
2010	1310	386.6	333.8	.468	1.28	1.461	4.4
SAT	5833	532.9	345.8	.782	1.864	2.079	4.4

NEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: SA101 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
12	0	.003	0		.013	1.45

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
A2901	1	3
A3001	1	
A3201	.2	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	.002 #	1.45
1990	390	40.45	3.02	.032 #	.091 #	.107 #	1.45
1995	878	95.27	8.36	.075 #	.187	.218	1.45
2000	2377	251.02	22.44	.201	.451	.524	1.45
2005	3033	310.11	28.14	.256	.56	.651	1.45
2010	3426	356.84	31.2	.238	.623	.724	1.45
SAT	3426	356.84	129.58	.386	.918	1.039	1.45

NEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: SA201 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
39	0	.0027	0		.013	28.0

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
A3201	.3	4
A3301	.5	
SD106	1	
SD201	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	4801	243.5	25.8	.386 #	.79 #	.861 #	28.0
1990	19880	2935.92	323.92	1.314 #	3.527	4.419	28.0
1995	27250	3823.14	416.91	2.459	4.661	5.798	28.0
2000	51924	6284.63	660.95	4.553	8.168	9.981	28.0
2005	59953	7164.39	733.13	5.229	9.272	11.323	28.0
2010	65169	7790.61	769.3	5.653	9.952	12.169	28.0
SAT	157921	21843.3	1148.87	12.934	20.321 #	26.807 #	28.0

SEWER NAME: SA202 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
27	0	.003	0		.013	10.9

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
A3201	.3	4
A3301	.5	
SA011	1	
SA101	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	16203	1137.3	313.9	1.599	3.28	3.677	10.9
1990	21198	1773.21	545.83	2.207	4.555	5.177	10.9
1995	24105	2031.19	686.7	2.564	5.316	6.038	10.9
2000	30817	2634.99	871.6	3.249	6.645	7.564	10.9
2005	33460	2855.2	996.37	3.575	7.32	8.325	10.9
2010	35027	2994.63	1105.23	3.802	7.824	8.891	10.9
SAT	42422	3295.91	1403.18	4.652	9.555	10.744 *	10.9

SEWER NAME: SA203 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
0	0	0	0		0	0

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
SA201	1	2
SA202	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	21004	1380.8	339.7	1.985	3.927	4.394	0
1990	41078	4709.13	809.76	4.02	7.799	9.312	0
1995	51355	5854.33	1103.61	5.023	9.646	11.504	0
2000	82740	8919.62	1532.55	7.803	14.363	17.095	0
2005	93413	10019.6	1729.51	8.804	16.106	19.162	0
2010	100196	10785.2	1874.52	9.455	17.269	20.552	0
SAT	200343	25139.2	2552.04	17.636	29.681	36.855	0

NEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: SA009 SECTION #: 32 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
18	0	.006	0		.013	5.5

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
SA007	1	2
SA008	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	14288	997.4	294.2	1.436	2.991	3.342	5.5
1990	16222	1506.3	484.99	1.923	4.021	4.555	5.5
1995	19807	1627.16	611.81	2.167	4.588	5.184 *	5.5
2000	23445	1896.82	772.82	2.598	5.496 *	6.2 *	5.5
2005	25293	2042.05	889.69	2.855	6.061 *	6.83 *	5.5
2010	26385	2135.33	994.13	3.043	6.499 *	7.318 *	5.5
SAT	33780	2436.61	1100.43	3.702	7.668 *	8.57 *	5.5

NEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: SA010 SECTION #: 32 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
30	0	.0024	0		.013	13.9

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
		0

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	13.9
1990	0	0	0	0 *	0 *	0 *	13.9
1995	0	0	0	0 *	0 *	0 *	13.9
2000	0	0	0	0 *	0 *	0 *	13.9
2005	0	0	0	0 *	0 *	0 *	13.9
2010	0	0	0	0 *	0 *	0 *	13.9
SAT	0	0	0	0 *	0 *	0 *	13.9

SEWER NAME: SA011 SECTION #: 32 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
0	0	0	0	WWTP	0	0

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 3

SA001	1
SA009	1
SA010	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	16203	1137.3	313.9	1.599	3.28	3.672	0
1990	20606	1675.24	512.17	2.129	4.384	4.967	0
1995	22494	1814.82	643.81	2.4	5	5.65	0
2000	26326	2096.54	807.93	2.849	5.937	6.699	0
2005	28300	2249.54	926.8	3.118	6.52	7.35	0
2010	29473	2347.83	1032.53	3.313	6.971	7.852	0
SAT	36868	2649.11	1138.33	3.972	8.134	9.099	0

SEWER NAME: SA036 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.0074	0		.013	.72

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1

B2501	1
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YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	.72
1990	125	179.2	0	.009 *	.006 *	.051 *	.72
1995	139	198.4	0	.01 *	.007 *	.057 *	.72
2000	152	217.6	0	.011 *	.007 *	.062 *	.72
2005	166	236.8	0	.012 *	.008 *	.067 *	.72
2010	179	256	0	.013 *	.009 *	.073	.72
SAT	179	256	0	.013 *	.009 *	.073	.72

SEWER NAME: SB001 SECTION #: 34 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.003	0		.013	.83

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
B3405	1	2
SC001	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	878	44	23.5	.09	.233	.25	.83
1990	937	46.98	25.8	.096	.249	.267	.83
1995	995	49.96	28.1	.103	.265	.284	.83
2000	1054	52.94	30.4	.109	.281	.302	.83
2005	1113	55.92	32.7	.116	.297	.319	.83
2010	1172	58.9	35	.123	.313	.336	.83
SAT	1722	78.9	45	.174	.425	.454	.83

SEWER NAME: SB002 SECTION #: 34 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
12	0	.0018	0		.013	1.01

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
B3406	1	2
SB001	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	2011	114.9	49	.201	.479	.52	1.01
1990	2091	118.33	51.19	.208	.497	.54	1.01
1995	2180	123.28	53.32	.217	.516	.56	1.01
2000	2288	128.56	55.35	.227	.537	.583	1.01
2005	2423	135.1	57.24	.239	.562	.61	1.01
2010	2600	143.6	58.9	.254	.592	.643	1.01
SAT	3150	163.6	68.9	.305	.698	.755	1.01

SEWER NAME: SB003 SECTION #: 34 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
15	0	.0014	0		.013	1.62

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
B3401	1	2
SB002	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	2532	153.5	50.6	.242	.557	.609	1.62
1990	2612	157.43	53.69	.25	.578	.632	1.62
1995	2701	161.88	57.23	.26	.601	.657	1.62
2000	2809	167.16	61.43	.272	.629	.687	1.62
2005	2944	173.7	66.7	.298	.663	.724	1.62
2010	3121	182.2	73.6	.308	.708	.773	1.62
SAT	3671	202.2	128.3	.403	.947	1.027	1.62

SEWER NAME: SB004 SECTION #: 34 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
15	0	.0014	0		.013	1.64

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
B3402	1	2
SB003	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	3617	233.9	60.5	.333	.736	.811	1.64
1990	3930	247.15	63.59	.359	.788	.867	1.64
1995	4170	257.61	67.13	.38	.831	.913	1.64
2000	4374	266.76	71.33	.399	.87	.956	1.64
2005	4572	275.79	76.6	.42	.912	1.002	1.64
2010	4789	285.9	83.5	.443	.962	1.055	1.64
SAT	5339	305.9	138.2	.538	1.198	1.307	1.64

SEWER NAME: SB005 SECTION #: 35 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.004	0		.013	.53

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
83403	1	2
83503	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	2540	155.7	9.3	.208	.45	.493 *	.53
1990	2664	167.14	11.38	.211	.458	.502 *	.53
1995	2689	168.58	12.96	.215	.466	.511 *	.53
2000	2713	170.02	14.54	.218	.474	.52 *	.53
2005	2738	171.46	16.12	.222	.483 *	.529 *	.53
2010	2762	172.9	17.7	.225	.491 *	.538 *	.53
SAT	2803	174.4	17.7	.228	.496 *	.544 *	.53

SEWER NAME: SB006 SECTION #: 35 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
12	0	.0144	0		.013	2.97

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
SB004	1	2
SB005	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	6257	399.6	70.3	.541	1.113	1.231	2.97
1990	6594	414.29	74.97	.57	1.171	1.294	2.97
1995	6859	426.19	80.09	.595	1.22	1.347	2.97
2000	7087	436.78	85.87	.617	1.267	1.398	2.97
2005	7310	447.25	92.72	.642	1.315	1.451	2.97
2010	7551	458.8	101.2	.668	1.371	1.512	2.97
SAT	8142	480.3	155.9	.766	1.61	1.766	2.97

SEWER NAME: S8007 SECTION #: 35 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.01	0		.013	1.52

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1
 B3501 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	680	43.7	0	.051 *	.131 *	.142 *	1.52
1990	1295	77.34	3.08	.1 *	.236	.257	1.52
1995	1592	99.03	5.07	.132 *	.301	.327	1.52
2000	1947	113	6.34	.152 *	.342	.372	1.52
2005	2112	121.99	7.17	.166	.368	.401	1.52
2010	2218	127.8	7.7	.174	.384	.419	1.52
SAT	2995	171	7.7	.232	.493	.536	1.52

SEWER NAME: S8008 SECTION #: 35 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
15	0	.0076	0		.013	3.91

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2
 S8006 1
 S8007 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	6937	443.3	70.3	.592	1.201	1.33	3.91
1990	7889	491.63	78.05	.67	1.345	1.488	3.91
1995	8551	525.22	85.16	.727	1.45	1.603	3.91
2000	9034	549.78	92.21	.769	1.531	1.693	3.91
2005	9422	569.24	99.39	.808	1.603	1.771	3.91
2010	9769	586.6	108.9	.842	1.673	1.848	3.91
SAT	11137	651.3	163.6	.998	2.006	2.205	3.91

SEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: S8009 SECTION #: 36 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
15	0	.0054	0		.013	3.3

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
B3605	1	2
S8008	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	6937	443.3	96.7	.618	1.28	1.426	3.3
1990	7889	491.64	104.45	.696	1.424	1.584	3.3
1995	8564	526.09	111.56	.754	1.53	1.701	3.3
2000	9341	569.97	118.61	.818	1.649	1.832	3.3
2005	9822	595.56	126.29	.864	1.732	1.923	3.3
2010	10170	613	135.3	.898	1.802	2	3.3
SAT	11538	677.7	190	1.054	2.134	2.356	3.3

SEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: S8010 SECTION #: 36 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
15	0	.0054	0		.013	3.3

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
B3603	1	2
S3009	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	6937	443.3	96.7	.618	1.28	1.43	3.3
1990	7889	491.65	104.46	.696	1.424	1.588	3.3
1995	8575	526.67	112.58	.756	1.535	1.71	3.3
2000	9556	581.91	143.3	.859	1.749	1.946	3.3
2005	10109	611.49	158.2	.917	1.863	2.07	3.3
2010	10458	629	167.3	.952	1.933	2.147	3.3
SAT	11826	693.7	222	1.108	2.266	2.504	3.3

SEWER NAME: SB011 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.005	0		.013	.58

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
B3404	1	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	.58
1990	335	18	24.8	.05 #	.146	.157	.58
1995	335	18	24.8	.05 #	.146	.157	.58
2000	335	18	24.8	.05 #	.146	.157	.58
2005	335	18	24.8	.05 #	.146	.157	.58
2010	335	18	24.8	.05 #	.146	.157	.58
SAT	684	36.8	24.8	.076	.206	.22	.58

SEWER NAME: SB012 SECTION #: 35 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.005	0		.013	1.08

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
B3502	.5	2
S3027	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	1761	127	38.56	.17	.411	.453	1.08
1990	2281	155.67	73.14	.25	.605	.663	1.08
1995	2400	162.53	88.25	.263	.652	.715	1.08
2000	2477	166.94	95.36	.281	.684	.75	1.08
2005	2526	169.76	100.52	.29	.706	.774	1.08
2010	2557	171.56	104.44	.295	.722	.792	1.08
SAT	3494	223.06	116.68	.379	.888	.97	1.08

SEWSYST.01

PIPELINE INVENTORY & FLJW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: SB013 SECTION #: 35 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.005	0		0	.58

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
SC010	1	1

YEAR	POPS	TRAS	CIAS	ADWFS	PWFWS	PWFWS	CAP
1985	3383	261.4	31.34	.286	.619 *	.697 *	.58
1990	4680	349.34	85.36	.437	.953 *	1.073 *	.58
1995	5140	382.29	122	.508	1.123 *	1.261 *	.58
2000	6631	490.48	136.07	.633 *	1.359 *	1.527 *	.58
2005	7363	543.23	154.38	.705 *	1.507 *	1.693 *	.58
2010	7782	573.24	181.36	.766 *	1.641 *	1.841 *	.58
SAT	8516	603.54	199.72	.846 *	1.801 *	2.011 *	.58

SEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: SB014 SECTION #: 36 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.004	0		.013	.96

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
B3601	.5	3
S3012	1	
S3013	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PWFWS	PWFWS	CAP
1985	5144	388.4	70.4	.456	.969 *	1.093 *	.96
1990	6961	505.02	163.51	.687	1.483 *	1.660 *	.96
1995	7552	545.71	210.76	.778	1.7 *	1.905 *	.96
2000	9452	682.86	243.78	.952 *	2.038 *	2.285 *	.96
2005	10320	744.93	270.86	1.044 *	2.227 *	2.496 *	.96
2010	10771	776.8	301.8	1.111 *	2.375 *	2.661 *	.96
SAT	12542	858.6	332.4	1.274 *	2.684 *	2.992 *	.96

SEWER NAME: SB015 SECTION #: 36 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.005	0		.013	.59

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
83601	.5	2
SC013	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	923	66.5	25.1	.104	.455	.482	.59
1990	1174	134.44	32.39	.191	.515	.562 *	.59
1995	1207	137.03	34.96	.195	.528	.576 *	.59
2000	1558	163.3	48.85	.236	.622 *	.68 *	.59
2005	1666	171.51	54.52	.249	.655 *	.716 *	.59
2010	1687	173.28	56.03	.253	.665 *	.727 *	.59
SAT	1797	177.28	65.63	.27	.708 *	.772 *	.59

SEWER NAME: SB016 SECTION #: 36 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.0049	0		.013	.59

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
SB014	.1	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	514	38.84	7.04	.046 *	.124	.137	.59
1990	696	50.5	16.35	.069	.182	.201	.59
1995	755	54.57	21.08	.078	.206	.226	.59
2000	945	68.29	24.38	.095	.246	.271	.59
2005	1032	74.49	27.09	.104	.268	.295	.59
2010	1077	77.68	30.18	.111	.284	.312	.59
SAT	1254	85.86	33.24	.127	.32	.351	.59

SEWER NAME: SB017 SECTION #: 36 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.0032	0		.013	.88

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
SB014	.9	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	4630	349.56	63.36	.41	.88 *	.992 *	.88
1990	6265	454.51	147.15	.618	1.345 *	1.51 *	.88
1995	6797	491.14	189.68	.7	1.541 *	1.725 *	.88
2000	8506	614.57	219.4	.857 *	1.847 *	2.069 *	.88
2005	9288	670.44	243.77	.939 *	2.018 *	2.26 *	.88
2010	9694	699.12	271.62	.999 *	2.152 *	2.408 *	.83
SAT	11288	772.74	299.16	1.146 *	2.431 *	2.708 *	.88

SEWER NAME: SB018 SECTION #: 36 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
12	0	.005	0		.013	1.6

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
SB015	1	2
SB016	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	1437	105.34	32.14	.21	.554	.594	1.6
1990	1370	184.94	48.74	.259	.668	.732	1.6
1995	1962	191.61	56.03	.273	.703	.771	1.6
2000	2503	231.58	73.23	.331	.831	.914	1.6
2005	2698	246	81.61	.353	.884	.972	1.6
2010	2764	250.96	86.81	.364	.908	.999	1.6
SAT	3052	263.14	98.87	.397	.984	1.08	1.6

SEWER NAME: SB019 SECTION #: 36 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
12	0	.0088	0		.013	2.32

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
B3604	.5	3
S8017	.5	
S3018	.5	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	3034	227.45	79.75	.342	.819	.903	2.32
1990	4068	319.73	129.95	.471	1.11	1.233	2.32
1995	4379	341.37	154.86	.518	1.227	1.361	2.32
2000	5505	423.08	178.31	.626	1.445	1.606	2.32
2005	5993	458.22	194.69	.678	1.558	1.731	2.32
2010	6229	475.04	211.21	.714	1.638	1.819	2.32
SAT	7170	517.94	231.01	.804	1.817	2.012	2.32

SEWER NAME: SB020 SECTION #: 36 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.01	0		.013	1.52

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
B3604	.5	3
S8017	.5	
S3018	.5	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	3034	227.45	79.75	.342	.819	.903	1.52
1990	4068	319.73	129.95	.471	1.11	1.233	1.52
1995	4379	341.37	154.86	.518	1.227	1.361	1.52
2000	5505	423.08	178.31	.626	1.445 *	1.606 *	1.52
2005	5993	458.22	194.69	.678	1.558 *	1.731 *	1.52
2010	6229	475.04	211.21	.714	1.638 *	1.819 *	1.52
SAT	7170	517.94	231.01	.804	1.817 *	2.012 *	1.52

SEWER NAME: S8021 SECTION #: 36 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
3	15	0	0		0	0

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
S8020	.05	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFS	CAP
1985	152	11.37	3.99	.017	.055	.059	0
1990	203	15.99	6.5	.024	.072	.078	0
1995	219	17.07	7.74	.026	.079	.086	0
2000	275	21.15	8.92	.031	.093	.101	0
2005	300	22.91	9.73	.034	.1	.109	0
2010	311	23.75	10.56	.036	.105	.114	0
SAT	358	25.9	11.55	.04	.116	.126	0

SEWER NAME: S8022 SECTION #: 36 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.01	0		.013	1.52

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
S8020	.95	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFS	CAP
1985	2882	216.08	75.76	.325	.781	.861	1.52
1990	3864	303.74	123.45	.447	1.053	1.175	1.52
1995	4160	324.3	147.11	.492	1.169	1.297	1.52
2000	5229	401.92	169.4	.574	1.377 *	1.53 *	1.52
2005	5693	435.31	184.95	.644	1.484 *	1.649 *	1.52
2010	5918	451.29	200.65	.678	1.56 *	1.733 *	1.52
SAT	6811	492.04	219.46	.764	1.732 *	1.916 *	1.52

SEWER NAME: SB023 SECTION #: 36 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
15	0	.0122	0		.013	4.96

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
SB010	1	3
SB019	1	
SB021	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	10122	682.12	130.44	.977	2.041	2.279	4.96
1990	12160	827.36	240.9	1.19	2.473	2.766	4.96
1995	13173	885.11	275.18	1.3	2.7	3.015	4.96
2000	15336	1026.14	330.53	1.516	3.127	3.492	4.96
2005	16402	1092.62	362.62	1.629	3.351	3.74	4.96
2010	16999	1127.79	389.07	1.701	3.501	3.906	4.96
SAT	19354	1237.54	464.56	1.952	4.007	4.449	4.96

SEWER NAME: SB025 SECTION #: 36 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.0032	0		.013	.78

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
SB022	1	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	2882	216.08	75.76	.325	.781 #	.861 #	.78
1990	3864	303.74	123.45	.447	1.058 #	1.175 #	.78
1995	4160	324.3	147.11	.492	1.169 #	1.297 #	.78
2000	5229	401.92	169.4	.594	1.377 #	1.53 #	.78
2005	5693	435.31	184.95	.644	1.484 #	1.649 #	.78
2010	5918	451.29	200.65	.678	1.56 #	1.733 #	.78
SAT	6811	492.04	219.46	.764 #	1.732 #	1.916 #	.78

SEWER NAME: SB026 SECTION #: 36 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.005	0		.013	1.08

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1
 SC014 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	1038	31	16	.094 #	.235	.20	1.08
1990	1589	157.87	41.25	.16	.394	.444	1.08
1995	1606	160.81	51.93	.172	.429	.482	1.08
2000	1623	163.76	59.76	.181	.455	.511	1.08
2005	1640	166.7	65.77	.189	.475	.534	1.08
2010	1658	169.65	70.6	.195	.492	.553	1.08
SAT	1781	174.13	70.6	.204	.51	.571	1.08

SEWER NAME: SB027 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.0035	0		.013	.84

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 3

B3502 .5
 SB011 1
 SC007 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	1062	75.2	24.26	.104	.264	.239	.84
1990	1489	98.51	57.28	.109	.427	.466	.84
1995	1548	101.92	63.16	.179	.454	.495	.84
2000	1586	104.1	67.54	.187	.473	.516	.84
2005	1611	105.48	70.95	.192	.486	.531	.84
2010	1626	106.36	73.74	.196	.497	.542	.84
SAT	2269	141.51	85.98	.256	.626	.681	.84

SEWER NAME: SC001 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.004	0		.013	.53

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
CO301	1	2
CO305	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	878	44	15.5	.062	.209	.224	.53
1990	937	46.98	16.84	.067	.222	.238	.53
1995	995	49.96	18.18	.093	.235	.252	.53
2000	1054	52.94	19.52	.098	.248	.266	.53
2005	1113	55.92	20.36	.104	.261	.281	.53
2010	1172	58.9	22.2	.11	.274	.295	.53
SAT	1722	78.9	32.2	.161	.386	.413	.53

SEWER NAME: SC002 SECTION #: 11 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.005	0		.013	.58

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
CL104	.5	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	.58
1990	1	.04	.02	0 #	0 #	.002 #	.58
1995	122	11.37	2.95	.012 #	.04 #	.045 #	.58
2000	750	76.08	18.57	.075	.198	.223	.58
2005	766	77.55	18.95	.077	.201	.227	.58
2010	766	77.55	18.95	.077	.201	.227	.58
SAT	775	78.9	20	.078	.206	.232	.58

SEWER NAME: SC004 SECTION #: 10 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.004	0		.013	.89

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C1001	1	1

YEAR	POPS	TRAS	CIAS	ADWFS	PWFWS	PWWFS	CAP
1985	456	49.6	4.6	.039 *	.107	.125	.89
1990	655	60.62	3.68	.053 *	.138	.158	.89
1995	853	71.64	2.76	.067 *	.167	.19	.89
2000	1051	82.66	1.84	.081 *	.195	.22	.89
2005	1250	93.68	.92	.095	.223	.25	.89
2010	1448	104.7	0	.109	.249	.28	.89
SAT	1448	104.7	0	.109	.249	.28	.89

SEWER NAME: SC005 SECTION #: 3 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.004	0		.013	.49

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C0304	1	2
SC004	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PWFWS	PWWFS	CAP
1985	1271	110	5.7	.101	.24	.273	.49
1990	1480	121.74	4.56	.116	.268	.304	.49
1995	1688	133.48	3.42	.13	.295	.334	.49
2000	1996	145.22	2.28	.145	.322	.363	.49
2005	2104	156.96	1.14	.159	.348	.392	.49
2010	2312	168.7	0	.174	.375	.421	.49
SAT	2312	168.7	0	.174	.375	.421	.49

SEWER NAME: SC006 SECTION #: 2 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.0057	0		.013	.59

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C0303	1	2
SC005	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	1271	110	5.7	.101	.24	.273	.59
1990	2373	180.98	6.44	.165	.403	.454	.59
1995	2604	193.76	4.98	.2	.431	.485	.59
2000	2829	206.54	3.52	.216	.458	.514	.59
2005	3055	219.32	2.06	.231	.484	.544 *	.59
2010	3281	232.1	.6	.247	.511	.573 *	.59
SAT	3281	232.1	.6	.247	.511	.573 *	.59

SEWER NAME: SC007 SECTION #: 3 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.0052	0		.013	1.02

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C0302	.4	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	362	23.4	9.95	.037 *	.107	.115	1.02
1990	362	23.35	11.62	.039 *	.112	.12	1.02
1995	361	23.3	13.27	.04 *	.116	.126	1.02
2000	351	23.26	14.93	.042 *	.121	.131	1.02
2005	350	23.21	16.58	.044 *	.126	.136	1.02
2010	359	23.16	18.24	.045 *	.131	.141	1.02
SAT	359	23.16	30.48	.058 *	.168	.181	1.02

SEWER NAME: SC008 SECTION #: 2 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.0035	0		.013	.5

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
CU203	.4	2
SC031	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	455	48.72	0	.034 #	.093	.105	.5
1990	538	57.31	.91	.041 #	.11	.124	.5
1995	620	65.9	1.82	.049 #	.126	.143	.5
2000	703	74.5	2.74	.055	.142	.162	.5
2005	785	83.09	3.65	.062	.158	.18	.5
2010	867	91.58	4.56	.07	.174	.198	.5
SAT	867	91.68	4.56	.07	.174	.198	.5

SEWER NAME: SC009 SECTION #: 2 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
12	0	.002	0		.013	1.03

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
CU203	.2	3
SC008	1	
SC030	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	759	81.2	0	.057 #	.143	.164	1.03
1990	897	95.53	46.22	.114	.304	.346	1.03
1995	1051	111.08	49.83	.129	.338	.385	1.03
2000	1603	156.15	53.97	.174	.434	.493	1.03
2005	1860	179.38	59.9	.199	.49	.556	1.03
2010	1999	193.8	68.8	.219	.536	.608	1.03
SAT	1999	193.8	68.8	.219	.536	.608	1.03

SEWER NAME: SC010 SECTION #: 2 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
12	0	.004	0		.013	1.46

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C0202	.2	4
SC009	1	
SC011	1	
SC032	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	3383	251.4	31.84	.286	.619	.697	1.46
1990	4680	349.34	85.36	.437	.953	1.073	1.46
1995	5140	382.29	122	.508	1.123	1.261	1.46
2000	6531	490.48	136.07	.633	1.359 *	1.527 *	1.46
2005	7363	543.23	154.38	.705	1.507 *	1.693 *	1.46
2010	7782	573.24	161.36	.766	1.641 *	1.841 *	1.46
SAT	8616	603.54	199.72	.846	1.801 *	2.011 *	1.46

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 08-05-85 AT 10:53:52

SEWER NAME: SC011 SECTION #: 2 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.005	0		.013	.58

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C0202	.6	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	485	21.06	6.72	.043 *	.118	.126	.58
1990	517	22.68	9.17	.048 *	.131	.139	.58
1995	549	24.3	11.62	.053 *	.144	.153	.58
2000	581	25.92	14.06	.058	.157	.167	.58
2005	613	27.54	16.51	.062	.169	.181	.58
2010	645	29.16	18.96	.067	.182	.194	.58
SAT	917	39.06	18.96	.088	.225	.24	.58

NEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: SC013 SECTION #: 1 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.005	0		.013	.59

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
CO101	.5	2
SC015	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	923	66.5	25.1	.104	.455	.478	.59
1990	1174	134.43	32.39	.191	.515	.558 *	.59
1995	1195	136.14	34.45	.194	.525	.568 *	.59
2000	1214	137.66	36.51	.198	.534 *	.578 *	.59
2005	1235	139.57	38.57	.201	.543 *	.588 *	.59
2010	1255	141.28	40.63	.205	.552 *	.599 *	.59
SAT	1365	145.28	49.63	.222	.596 *	.645 *	.59

NEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: SC014 SECTION #: 1 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.005	0		.013	1.08

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
CO102	1	3
CO103	.2	
CO104	.7	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	1038	81	16	.094 *	.235	.26	1.08
1990	1589	157.87	41.25	.16	.394	.444	1.08
1995	1606	160.81	51.93	.172	.429	.482	1.08
2000	1623	163.76	59.76	.191	.455	.511	1.08
2005	1640	166.7	65.77	.189	.475	.534	1.08
2010	1658	169.65	70.6	.195	.492	.553	1.08
SAT	1781	174.13	70.6	.204	.51	.571	1.08

SEWER NAME: SC015 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.0025	0		.013	.39

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C0101	.5	2
C0103	.55	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	462	33.25	12.55	.082	.237	.248	.39
1990	703	100.39	18.31	.107	.296	.326	.39
1995	714	101.31	19.84	.108	.301	.331	.39
2000	724	102.24	20.87	.11	.305	.337	.39
2005	734	103.16	21.9	.112	.31	.342	.39
2010	745	104.08	22.93	.114	.315	.347	.39
SAT	800	106.08	27.43	.122	.337	.371 #	.39

SEWER NAME: SC016 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
12	0	.007	0		.013	2

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C0104	.3	4
C1202	.5	
SC017	1	
SC024	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	2
1990	2232	449.62	24.05	.191 #	.425	.546	2
1995	2899	520.7	54.32	.271	.608	.754	2
2000	6290	323.59	155.42	.626	1.361	1.608	2
2005	6393	349.45	171.22	.649	1.42	1.678	2
2010	6415	368.57	184.88	.665	1.462	1.729	2
SAT	6486	873.19	186.98	.672	1.478	1.749	2

SEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: SC017 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.01	0		.013	1.42

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
CG103	.25	3
CI201	1	
SC018	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	1.42
1990	2020	414.56	2.38	.153	.33	.435	1.42
1995	2024	420.22	2.38	.153	.33	.436	1.42
2000	2028	425.88	2.38	.153	.33	.438	1.42
2005	2032	431.54	2.38	.153	.331	.439	1.42
2010	2037	437.2	2.38	.154	.331	.441	1.42
SAT	2037	437.2	2.38	.154	.331	.443	1.42

SEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: SC018 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.01	0		.013	1.42

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
CI102	1	3
CI103	1	
SC019	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	1.42
1990	1840	278.8	0	.137 #	.307	.377	1.42
1995	1840	278.8	0	.137 #	.307	.377	1.42
2000	1840	278.8	0	.137 #	.307	.377	1.42
2005	1840	278.8	0	.137 #	.307	.377	1.42
2010	1840	278.8	0	.137 #	.307	.377	1.42
SAT	1840	278.8	0	.137 #	.307	.379	1.42

SEWER NAME: SC019 SECTION #: 0 BASE MAP: 0

DIAMETER 3 LENGTH 0 SLOPE .023 INSTALLED 0 MATERIAL ROUGHNESS .013 CAPACITY 1.19

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1
 C1101 1

YEAR	POPS	TRAS	CIAS	ADWFS	PWFS	PWFS	CAP
1985	0	0	0	0 #	0 #	0 #	1.18
1990	845	128	0	.063 #	.157	.139	1.18
1995	945	128	0	.063 #	.157	.189	1.18
2000	845	128	0	.063 #	.157	.189	1.18
2005	845	128	0	.063 #	.157	.189	1.18
2010	845	128	0	.063 #	.157	.189	1.18
SAT	845	128	0	.063 #	.157	.139	1.18

SEWER NAME: SC024 SECTION #: J BASE MAP: 0

DIAMETER 10 LENGTH 0 SLOPE .0156 INSTALLED 0 MATERIAL ROUGHNESS .013 CAPACITY 1.76

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2
 C1202 .5
 SC025 1

YEAR	POPS	TRAS	CIAS	ADWFS	PWFS	PWFS	CAP
1985	0	0	0	0 #	0 #	0 #	1.76
1990	9	6.35	8.53	.009 #	.027 #	.033 #	1.76
1995	660	64.42	31.4	.031 #	.22	.247	1.76
2000	4034	354.29	125.1	.428	.985	1.107	1.76
2005	4122	367.14	133.5	.443	1.021	1.149	1.76
2010	4128	373.25	139.75	.449	1.04	1.171	1.76
SAT	4146	375.95	141.85	.452	1.049	1.182	1.76

SEWER NAME: SC025 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.009	0		.013	1.38

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
CL204	1	2
SC026	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	1.38
1990	4	.24	.08	0 #	.001 #	.004 #	1.38
1995	651	52.2	16.7	.065 #	.176	.196	1.38
2000	4021	335.96	104.15	.406	.222	1.035	1.38
2005	4105	342.7	106.3	.414	.939	1.054	1.38
2010	4106	342.7	106.3	.414	.94	1.055	1.38
SAT	4124	345.4	108.4	.417	.948	1.065	1.38

SEWER NAME: SC026 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
3	0	.009	0		.013	.78

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
CL203	1	2
SC027	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	.78
1990	3	.2	.05	0 #	.001 #	.004 #	.78
1995	492	40.46	10.39	.047 #	.13	.146	.78
2000	2868	250.54	63.86	.279	.644	.725 #	.78
2005	2932	255.8	65.2	.285	.657	.74 #	.78
2010	2933	255.8	65.2	.285	.657	.74 #	.78
SAT	2951	258.5	67.3	.288	.666	.751 #	.78

SEWER NAME: SC027 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.009	0		.013	.73

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C1104	.5	2
SC002	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	.73
1990	1	.09	.03	0 #	0 #	.003 #	.73
1995	244	22.74	5.9	.024 #	.073 #	.083	.73
2000	1500	152.17	37.14	.15	.369	.419	.73
2005	1532	155.1	37.9	.153	.376	.427	.73
2010	1532	155.1	37.9	.153	.376	.427	.73
SAT	1550	157.8	40	.156	.385	.437	.73

SEWER NAME: SC028 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.0015	0		.013	.95

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C0201	.4	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	.95
1990	0	0	0	0 #	0 #	0 #	.95
1995	11	.8	11.25	.012 #	.037 #	.04 #	.95
2000	276	19.88	13.1	.034 #	.1	.109	.95
2005	354	25.53	16.01	.042 #	.123	.134	.95
2010	355	25.6	21.2	.048 #	.139	.151	.95
SAT	507	31.12	21.2	.059 #	.166	.178	.95

SEWER NAME: SC029 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.003	0		.013	.75

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1
 C0204 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	.75
1990	0	.01	44.7	.045 #	.134	.152	.75
1995	17	1.24	46.59	.048 #	.144	.163	.75
2000	432	31.39	49.41	.082	.237	.264	.75
2005	552	40.9	53.82	.095	.271	.301	.75
2010	554	41	61.2	.103	.293	.325	.75
SAT	554	41	61.2	.103	.293	.325	.75

SEWER NAME: SC030 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.005	0		.013	.55

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2
 C0203 .2
 SC029 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	152	16.24	0	.011 #	.037 #	.041 #	.55
1990	179	19.11	45	.059	.178	.2	.55
1995	224	23.21	47.2	.064	.193	.217	.55
2000	666	56.82	50.32	.1	.279	.313	.55
2005	814	68.6	55.04	.116	.317	.355	.55
2010	843	71.56	62.72	.126	.345	.385	.55
SAT	843	71.56	62.72	.126	.345	.385	.55

SEWER NAME: SC031 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.005	0		.013	.55

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C0203	.2	1

YEAR	POPS	TRAS	CIAS	ADWFS	PWFWS	PWWFS	CAP
1985	152	16.24	0	.011 *	.037 *	.041 *	.55
1990	179	19.1	.3	.014 *	.044 *	.049 *	.55
1995	207	21.97	.61	.016 *	.05 *	.056	.55
2000	234	24.83	.91	.018 *	.056	.063	.55
2005	262	27.7	1.22	.021 *	.062	.069	.55
2010	299	30.56	1.52	.023 *	.063	.076	.55
SAT	299	30.56	1.52	.023 *	.068	.076	.55

SEWER NAME: SC032 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.0035	0		.013	.89

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C0201	.6	4
C0202	.2	
SC028	1	
SC034	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PWFWS	PWWFS	CAP
1985	1976	152.12	22.88	.171	.395	.444	.89
1990	3093	223.57	26.92	.259	.564	.631	.89
1995	3357	238.81	56.88	.308	.69	.759	.89
2000	4253	299.77	63.35	.382	.83 *	.926 *	.89
2005	4685	327.13	72.46	.423	.915 *	1.019 *	.89
2010	4923	340.56	87.28	.457	.991 *	1.102 *	.89
SAT	5394	357.66	105.64	.511	1.108 *	1.226 *	.89

SEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: SC033 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.0083	0		.013	.72

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C1301	1	2
C1401	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	.72
1990	870	131.35	0	.055 #	.161	.23	.72
1995	1610	257.44	0	.121	.271	.371	.72
2000	2406	474.6	0	.18	.366	.521	.72
2005	2529	510.14	0	.197	.397	.561	.72
2010	2704	521.5	0	.203	.408	.574	.72
SAT	2740	538.5	0	.205	.411	.58	.72

SEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: SC034 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
0	0	0	0		0	0

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C0302	.5	2
SC006	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	1315	145.1	20.64	.157	.365	.411	0
1990	2921	216.01	23.86	.243	.531	.596	0
1995	3146	228.72	24.89	.261	.565	.633	0
2000	3370	241.42	25.91	.279	.599	.67	0
2005	3595	254.13	26.94	.296	.633	.707	0
2010	3820	266.84	27.96	.315	.666	.744	0
SAT	3820	266.84	46.32	.333	.721	.803	0

S=WSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:5

SEWER NAME: S0001 SECTION #: 7 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.004	0		.013	.53

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
00701	.3	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFS	CAP
1985	102	5.55	3.99	.012 *	.039 *	.041 *	.53
1990	205	12.32	23.82	.039 *	.119	.128	.53
1995	272	16.68	36.59	.057	.17	.184	.53
2000	314	19.49	44.83	.068	.203	.219	.53
2005	342	21.3	50.13	.076	.224	.241	.53
2010	360	22.47	53.55	.08	.237	.256	.53
SAT	300	22.47	53.55	.08	.237	.256	.53

SEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:5

SEWER NAME: S0002 SECTION #: 6 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.004	0		.013	.53

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
00603	.45	
00702	1	
S0001	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFS	CAP
1985	2308	117.47	9.62	.183	.403	.435	.53
1990	2446	126.13	29.53	.213	.482 *	.521 *	.53
1995	2568	133.53	42.43	.235	.538 *	.582 *	.53
2000	2699	141.15	50.85	.253	.531 *	.629 *	.53
2005	2863	150.4	56.45	.271	.621 *	.673 *	.53
2010	3085	162.65	60.35	.291	.663 *	.719 *	.53
SAT	3085	162.65	60.35	.291	.663 *	.719 *	.53

SEWER NAME: S0003 SECTION #: 6 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.0036	0		.013	.85

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1
 D0603 .4

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	1640	82.24	5	.128	.293	.315	.95
1990	1571	83.92	5.08	.13	.298	.32	.85
1995	1720	86.62	5.18	.134	.305	.328	.85
2000	1799	90.9	5.35	.14	.317	.341	.85
2005	1920	97.51	5.62	.15	.335	.361	.85
2010	2102	107.36	6.04	.164	.363	.391	.85
SAT	2102	107.36	6.04	.164	.363	.391	.85

SEWER NAME: S0004 SECTION #: 7 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.0044	0		.013	1.01

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2
 D0703 .5
 S0008 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	171	9.25	6.65	.02 *	.061 *	.065 *	1.01
1990	641	42.69	41.46	.09 *	.249	.27	1.01
1995	1051	72.12	64.51	.144	.383	.417	1.01
2000	1422	98.97	79.99	.187	.485	.53	1.01
2005	1766	124.15	90.59	.224	.568	.622	1.01
2010	2096	148.25	98.05	.255	.638	.7	1.01
SAT	2096	148.25	98.05	.255	.638	.7	1.01

SEWER NAME: S0005 SECTION #: 6 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
30	0	.0038	0		.013	17.1

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
S0004	1	2
S0011	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	239	12.95	9.31	.027 *	.082 *	.088 *	17.1
1990	11373	2082.74	222.97	1.075 *	2.211	2.837	17.1
1995	16671	2763.98	263.87	1.514	2.971	3.777	17.1
2000	28532	4019.69	351.96	2.491	4.607	5.749	17.1
2005	34292	4684.58	389.89	2.962	5.38	6.697	17.1
2010	38655	5232.76	406.83	3.304	5.924	7.383	17.1
SAT	79833	10608.9	471.05	6.454	10.634	13.463	17.1

SEWER NAME: S0006 SECTION #: 5 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
27	0	.0025	0		.013	10.76

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
D0602	.1	5
S0002	1	
S0003	1	
S0005	1	
S0067	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	4801	243.5	25.8	.386 *	.79 *	.858 *	10.76
1990	19379	2850.21	293.27	1.746	3.376	4.213	10.76
1995	25731	3628.28	380.87	2.309	4.377	5.431	10.76
2000	41349	5209.81	580.87	3.681	6.743	8.243	10.76
2005	47627	5924.98	641.98	4.213	7.629	9.322	10.76
2010	52534	6522	677.95	4.614	8.281	10.133 *	10.76
SAT	93783	11902.7	744.23	7.771	12.953 *	16.181 *	10.76

NEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: S0007 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.01	0		.013	.78

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
D0601	1	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	461	32.2	18.7	.053 #	.15	.163	.78
1990	623	44.16	26.58	.073 #	.201	.219	.78
1995	727	51.87	31.66	.086	.233	.254	.78
2000	794	56.84	34.93	.094	.254	.277	.78
2005	837	60.04	37.04	.1	.267	.291	.78
2010	865	62.1	38.4	.103	.275	.301	.78
SAT	865	62.1	38.4	.103	.275	.301	.78

NEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: S0008 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.0044	0		.013	.94

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
D0701	.5	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	171	9.25	6.65	.02 #	.061 #	.065 #	.94
1990	342	20.53	39.7	.066 #	.192	.207	.94
1995	453	27.8	60.99	.095	.276	.298	.94
2000	524	32.49	74.71	.114	.329	.356	.94
2005	570	35.51	83.55	.127	.363	.393	.94
2010	600	37.45	89.25	.134	.385	.417	.94
SAT	600	37.45	89.25	.134	.385	.417	.94

SEWER NAME: S0009 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
12	0	.003	0		.013	1.3

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
D07J1	.2	2
SC033	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1935	68	3.7	2.66	.008 *	.026 *	.028 *	1.3
1990	1007	140.06	15.98	.091 *	.23	.305	1.3
1995	1791	268.56	24.4	.159	.37	.48	1.3
2000	2616	487.59	29.88	.226	.485	.651	1.3
2005	2857	524.34	33.42	.248	.529	.705	1.3
2010	2944	536.48	35.7	.257	.548	.727	1.3
SAT	2980	553.48	35.7	.259	.551	.734	1.3

SEWER NAME: S0010 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
12	0	.003	0		.013	1.3

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
D0703	.4	3
S0009	1	
S0012	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1935	68	3.7	2.66	.008 *	.026 *	.028 *	1.3
1990	1246	157.79	17.29	.11 *	.271	.351	1.3
1995	2270	304.02	27.21	.198	.448	.566	1.3
2000	3334	540.78	34.11	.234	.598	.777	1.3
2005	3814	595.25	39.05	.325	.678	.872	1.3
2010	4141	625.12	42.74	.353	.733	.936	1.3
SAT	4177	642.12	42.74	.355	.735	.942	1.3

SEWER NAME: SD011 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
24	0	.0047	0		.013	14.2

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
SD010	1	2
SD101	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PWFWS	PWFWS	CAP
1985	68	3.7	2.60	.008 #	.026 #	.029 #	14.2
1990	10732	2040.05	181.52	.986 #	2.008	2.612	14.2
1995	15620	2691.86	199.36	1.37 #	2.652	3.423	14.2
2000	27110	3920.72	271.97	2.305	4.203	5.3	14.2
2005	32526	4560.44	299.3	2.739	4.906	6.17	14.2
2010	36559	5084.51	308.77	3.049	5.393	6.79	14.2
SAT	77737	10460.6	373	6.199	10.111	12.879 #	14.2

SEWER NAME: SD012 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
0	0	0	0	ALT.	.013	0

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
		0

YEAR	POPS	TRAS	CIAS	ADWFS	PWFWS	PWFWS	CAP
1985	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0
SAT	0	0	0	0	0	0	0

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 08-05-85 AT 10:53:5

SEWER NAME: SD066 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
15	0	.004	0		.013	2.7

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
00603	.15	2
SC016	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PWFWS	PWWFS	CAP
1985	615	30.84	1.88	.048 *	.125 *	.134 *	2.7
1990	2859	481.09	25.95	.24 *	.518	.648	2.7
1995	3544	553.19	56.26	.321	.702	.858	2.7
2000	6764	857.67	157.43	.679	1.453	1.71	2.7
2005	7113	886.01	173.33	.705	1.519	1.786	2.7
2010	7203	908.83	187.14	.726	1.57	1.847	2.7
SAT	7274	913.45	189.24	.733	1.585	1.867	2.7

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 08-05-85 AT 10:53:52

SEWER NAME: SD067 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
15	0	.004	0		.013	2.7

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
00602	.9	2
SD066	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PWFWS	PWWFS	CAP
1985	615	30.84	1.88	.048 *	.125 *	.134 *	2.7
1990	3786	549.78	34.72	.318	.672	.821	2.7
1995	4649	635.06	68.07	.415	.886	1.065	2.7
2000	8184	948.03	171.19	.784	1.649	1.932	2.7
2005	8407	981.85	188.36	.818	1.728	2.023	2.7
2010	8544	1008.19	202.98	.842	1.787	2.093	2.7
SAT	8615	1012.81	205.08	.849	1.802	2.113	2.7

SEWER NAME: SD101 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
27	0	.0038	0		.013	12.9

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
DU703	.3	3
DD801	.25	
SD102	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1935	0	0	0	0 #	0 #	0 #	12.9
1990	9486	1982.26	164.23	.875 #	1.802	2.326	12.9
1995	13350	2387.84	172.15	1.172 #	2.299	2.951	12.9
2000	23777	3379.94	237.86	2.021	3.731	4.648	12.9
2005	28712	3965.18	260.25	2.414	4.369	5.438	12.9
2010	32419	4459.39	266.03	2.696	4.81	6.004	12.9
SAT	73561	9818.5	330.26	5.843	9.545	12.107 #	12.9

SEWER NAME: SD102 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
24	0	.0064	0		.013	11.6

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
DD1701	.4	3
DD1801	1	
SD103	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1935	0	0	0	0 #	0 #	0 #	11.6
1990	9307	1868.96	163.17	.861 #	1.776	2.297	11.6
1995	12964	2359.25	169.85	1.141 #	2.245	2.89	11.6
2000	22051	3252.11	230.38	1.884	3.507	4.39	11.6
2005	26597	3808.51	250.37	2.245	4.095	5.122	11.6
2010	30123	4289.36	255.08	2.513	4.514	5.663	11.6
SAT	71036	9631.52	317.48	5.641	9.23	11.742 #	11.6

SEWER NAME: SD103 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
27	0	.0027	0		.013	10.9

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C2301	1	5
C2401	1	
D1901	1	
D2001	.2	
SD104	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	10.9
1990	9307	1858.92	163.16	.861 #	1.776	2.292	10.9
1995	12831	2349.44	167.72	1.129	2.222	2.86	10.9
2000	15352	2829.96	172.28	1.399	2.659	3.417	10.9
2005	19874	3310.48	176.84	1.667	3.089	3.969	10.9
2010	23395	3791	181.4	1.935	3.514	4.515	10.9
SAT	63088	9042.8	240.6	4.968	8.127	10.459 #	10.9

SEWER NAME: SD104 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
27	0	.0027	0		.013	10.9

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C2501	1	5
C2601	1	
D2901	.4	
D3001	1	
SD105	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	10.9
1990	6396	1624.68	126.98	.607 #	1.301	1.747	10.9
1995	8150	1922.36	129.26	.74 #	1.531	2.052	10.9
2000	9902	2220.04	131.54	.874 #	1.757	2.353	10.9
2005	11655	2517.72	133.82	1.007 #	1.98	2.651	10.9
2010	13406	2815.4	136.1	1.14	2.2	2.946	10.9
SAT	51350	7872.6	185.6	4.033	6.674	8.697	10.9

NEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-95 AT 10:53:52

SEWER NAME: SD105 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
21	0	.0052	0		.013	7.7

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
C3401	1	6
C3501	1	
C3601	1	
D3101	1	
D3201	.5	
SF101	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	7.7
1990	5022	1231.94	67.3	.444 #	.945	1.273	7.7
1995	6282	1388.88	67.3	.538 #	1.109	1.481	7.7
2000	7542	1545.82	67.3	.633 #	1.27	1.682	7.7
2005	8802	1702.76	67.3	.727 #	1.429	1.88	7.7
2010	10061	1859.7	67.3	.821	1.586	2.076	7.7
SAT	44770	6267.1	117.3	3.471	5.734	7.338 #	7.7

NEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-95 AT 10:53:52

SEWER NAME: SD106 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
24	0	.0157	0		.013	19.2

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
D0301	.5	4
D0401	1	
D0501	.9	
SD006	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	4801	243.5	25.8	.386 #	.79 #	.858 #	19.2
1990	19678	2878.37	293.27	1.768 #	3.411	4.256	19.2
1995	26407	3693.85	380.87	2.36	4.456	5.526	19.2
2000	45213	5656.69	580.97	3.97	7.178	8.789	19.2
2005	52378	6471.25	641.98	4.57	8.159	9.989	19.2
2010	57588	7096.76	677.95	4.993	8.842	10.837	19.2
SAT	104150	13068.7	791.78	8.585	14.183	17.717 #	19.2

SEWER NAME: SD201 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
27	0	.0022	0		.013	9.0

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
00301	.5	2
SD202	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PWFWS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	9.6
1990	0	.03	.01	0 #	0 #	.024 #	9.6
1995	110	8.19	1.52	.01 #	.033 #	.06 #	9.6
2000	4597	340.51	38.95	.384 #	.803 #	.921 #	9.6
2005	5449	403.59	49.72	.459 #	.947 #	1.084	9.6
2010	5453	403.39	49.85	.459 #	.943 #	1.085	9.6
SAT	51643	8484.68	232.32	4.104	6.684	9.033 #	9.6

SEWER NAME: SD202 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
24	0	.0039	0		.013	9.6

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
00801	.75	4
00901	1	
01001	1	
SD203	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PWFWS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	9.6
1990	0	.03	.01	0 #	0 #	.024 #	9.6
1995	110	8.19	1.52	.01 #	.033 #	.06 #	9.6
2000	4597	340.51	38.85	.384 #	.803 #	.921 #	9.6
2005	5449	403.59	49.72	.459 #	.947 #	1.084	9.6
2010	5453	403.89	49.85	.459 #	.943 #	1.085	9.6
SAT	50128	8266.18	194.82	3.953	6.402	8.687 #	9.6

SEWER NAME: SD203 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
27	0	.0019	0		.013	8.9

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
D1501	1	4
D1601	1	
D1701	.5	
SD204	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1935	0	0	0	0 #	0 #	0 #	8.9
1990	0	.01	.01	0 #	0 #	.007 #	8.9
1995	29	2.18	.94	.003 #	.011 #	.018 #	8.9
2000	1035	76.69	25.93	.104 #	.265 #	.297 #	8.9
2005	1258	93.14	32.75	.127 #	.319 #	.358 #	8.9
2010	1259	93.24	32.82	.127 #	.32 #	.358 #	8.9
SAT	39524	6922.6d	162.32	3.126	5.155	7.098	8.9

SEWSYST.01

PIPELINE INVENTORY & FLOW ROUTING

RUN 08-05-85 AT 10:53:52

SEWER NAME: SD204 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
24	0	.002	0		.013	6.8

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
D2001	.8	4
D2101	1	
D2201	1	
SD205	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	6.8
1990	0	0	0	0 #	0 #	0 #	6.8
1995	0	0	0	0 #	0 #	0 #	6.8
2000	0	0	0	0 #	0 #	0 #	6.8
2005	0	0	0	0 #	0 #	0 #	6.8
2010	0	0	0	0 #	0 #	0 #	6.8
SAT	31077	6061.1	118.5	2.45	4.073	5.673	6.8

SEWER NAME: SD205 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
21	0	.0031	0		.013	5.9

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
02701	1	4
02801	1	
02901	.6	
SD206	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	5.9
1990	0	0	0	0 #	0 #	0 #	5.9
1995	0	0	0	0 #	0 #	0 #	5.9
2000	0	0	0	0 #	0 #	0 #	5.9
2005	0	0	0	0 #	0 #	0 #	5.9
2010	0	0	0	0 #	0 #	0 #	5.9
SAT	25864	4993.9	100.5	2.041	3.461	4.703	5.9

SEWER NAME: SD206 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
18	0	.0031	0		.013	3.9

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
03201	.5	4
03301	1	
03401	1	
SF201	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	3.9
1990	0	0	0	0 #	0 #	0 #	3.9
1995	0	0	0	0 #	0 #	0 #	3.9
2000	0	0	0	0 #	0 #	0 #	3.9
2005	0	0	0	0 #	0 #	0 #	3.9
2010	0	0	0	0 #	0 #	0 #	3.9
SAT	19854	3682.7	80.5	1.569	2.694	3.603 #	3.9

SEWER NAME: SF101 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
18	0	.0052	0		.013	5.2

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
E0101	1	5
E0201	1	
F0501	.5	
F0601	1	
SF102	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	5.2
1990	1675	275.74	0	.126 #	.283 #	.36 #	5.2
1995	2935	432.68	0	.22 #	.462 #	.578	5.2
2000	4195	539.62	0	.315 #	.633	.788	5.2
2005	5455	746.56	0	.409 #	.799	.993	5.2
2010	6714	903.5	0	.503 #	.961	1.195	5.2
SAT	31554	4276.3	24.5	2.387	3.958	5.033 #	5.2

SEWER NAME: SF102 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
18	0	.0024	0		.013	3.5

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
E1201	1	4
F0701	1	
F0801	.9	
SF103	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	3.5
1990	0	0	0	0 #	0 #	0 #	3.5
1995	0	0	0	0 #	0 #	0 #	3.5
2000	0	0	0	0 #	0 #	0 #	3.5
2005	0	0	0	0 #	0 #	0 #	3.5
2010	0	0	0	0 #	0 #	0 #	3.5
SAT	13385	2472.3	4.5	1.007	1.765	2.392	3.5

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 08-05-85 AT 10:53:51

SEWER NAME: SF103 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.0093	0		.013	1.45

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
FL701	1	2
FL801	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	1.45
1990	0	0	0	0 #	0 #	0 #	1.45
1995	0	0	0	0 #	0 #	0 #	1.45
2000	0	0	0	0 #	0 #	0 #	1.45
2005	0	0	0	0 #	0 #	0 #	1.45
2010	0	0	0	0 #	0 #	0 #	1.45
SAT	5150	1024	0	.386	.717	.973	1.45

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 08-05-85 AT 10:53:52

SEWER NAME: SF201 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
15	0	.0032	0		.013	2.45

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
F0301	1	4
F0401	1	
F0501	.5	
SF202	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	2.45
1990	0	0	0	0 #	0 #	0 #	2.45
1995	0	0	0	0 #	0 #	0 #	2.45
2000	0	0	0	0 #	0 #	0 #	2.45
2005	0	0	0	0 #	0 #	0 #	2.45
2010	0	0	0	0 #	0 #	0 #	2.45
SAT	12551	2437.7	45.5	.986	1.711	2.299 #	2.45

SEWER NAME: SF202 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
3	0	.0077	0		.013	.73

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
FJ801	.1	3
F0901	1	
F1001	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 #	0 #	0 #	.73
1990	0	0	0	0 #	0 #	0 #	.73
1995	0	0	0	0 #	0 #	0 #	.73
2000	0	0	0	0 #	0 #	0 #	.73
2005	0	0	0	0 #	0 #	0 #	.73
2010	0	0	0	0 #	0 #	0 #	.73
SAT	3318	1064.7	10.5	.237	.438	.707 #	.73

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-30-85 AT 16:40:33

SEWER NAME: SA301 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
12	0	.003	0		.013	1.3

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
A2501	1	3
A2601	1	
SA302	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	1.3
1990	0	0	0	0 *	0 *	0 *	1.3
1995	0	0	0	0 *	0 *	0 *	1.3
2000	0	0	0	0 *	0 *	0 *	1.3
2005	0	0	0	0 *	0 *	0 *	1.3
2010	0	0	0	0 *	0 *	0 *	1.3
SAT	4781	2731.6	30	.387	.408	1.098	1.3

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-30-85 AT 16:40:33

SEWER NAME: SA302 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
10	0	.003	0		.013	.76

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
A1301	.6	4
A2301	1	
A2401	1	
SA303	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	.76
1990	0	0	0	0 *	0 *	0 *	.76
1995	0	0	0	0 *	0 *	0 *	.76
2000	0	0	0	0 *	0 *	0 *	.76
2005	0	0	0	0 *	0 *	0 *	.76
2010	0	0	0	0 *	0 *	0 *	.76
SAT	2989	1707.6	30	.253	.287	.721 *	.76

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-30-85 AT 16:40:33

SEWER NAME: SH302 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
21	0	.003	0		.013	5.8

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
D1101	1	5
D1201	1	
H0701	1	
H0801	1	
SH303	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	5.8
1990	0	0	0	0 *	0 *	0 *	5.8
1995	0	0	0	0 *	0 *	0 *	5.8
2000	0	0	0	0 *	0 *	0 *	5.8
2005	0	0	0	0 *	0 *	0 *	5.8
2010	0	0	0	0 *	0 *	0 *	5.8
SAT	24961	14131	75	1.888	1.756	5.342 *	5.8

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-30-85 AT 16:40:33

SEWER NAME: SH303 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
21	0	.003	0		.013	5.8

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
D1301	1	5
D1401	1	
H1701	1	
H1801	1	
SH304	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	5.8
1990	0	0	0	0 *	0 *	0 *	5.8
1995	0	0	0	0 *	0 *	0 *	5.8
2000	0	0	0	0 *	0 *	0 *	5.8
2005	0	0	0	0 *	0 *	0 *	5.8
2010	0	0	0	0 *	0 *	0 *	5.8
SAT	21867	12440	75	1.657	1.576	4.746	5.8

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-30-85 AT 16:40:33

SEWER NAME: SH304 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
21	0	.003	0		.013	5.8

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
D2301	1	5
D2401	1	
H1901	1	
H2001	1	
SH305	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	5.8
1990	0	0	0	0 *	0 *	0 *	5.8
1995	0	0	0	0 *	0 *	0 *	5.8
2000	0	0	0	0 *	0 *	0 *	5.8
2005	0	0	0	0 *	0 *	0 *	5.8
2010	0	0	0	0 *	0 *	0 *	5.8
SAT	19033	10696	75	1.445	1.415	4.149	5.8

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-30-85 AT 16:40:33

SEWER NAME: SH305 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
18	0	.003	0		.013	3.9

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
D2501	1	7
D2601	1	
D2602	1	
H2801	1	
H2901	1	
H3001	1	
SH306	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	3.9
1990	0	0	0	0 *	0 *	0 *	3.9
1995	0	0	0	0 *	0 *	0 *	3.9
2000	0	0	0	0 *	0 *	0 *	3.9
2005	0	0	0	0 *	0 *	0 *	3.9
2010	0	0	0	0 *	0 *	0 *	3.9
SAT	16274	9120	35	1.199	1.182	3.48	3.9

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-30-85 AT 16:40:33

SEWER NAME: SA303 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
8	0	.003	0		.013	.44

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
A1401	1	1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	.44
1990	0	0	0	0 *	0 *	0 *	.44
1995	0	0	0	0 *	0 *	0 *	.44
2000	0	0	0	0 *	0 *	0 *	.44
2005	0	0	0	0 *	0 *	0 *	.44
2010	0	0	0	0 *	0 *	0 *	.44
SAT	896	512	0	.067	.083	.211	.44

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-30-85 AT 16:40:33

SEWER NAME: SG301 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
15	0	.003	0		.013	2.35

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
F0101	1	6
F0201	1	
G0401	1	
G0501	1	
G0601	1	
SG302	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	2.35
1990	0	0	0	0 *	0 *	0 *	2.35
1995	0	0	0	0 *	0 *	0 *	2.35
2000	0	0	0	0 *	0 *	0 *	2.35
2005	0	0	0	0 *	0 *	0 *	2.35
2010	0	0	0	0 *	0 *	0 *	2.35
SAT	8502	4858	30	.666	.646	1.868	2.35

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-30-85 AT 16:40:33

SEWER NAME: SG302 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
12	0	.003	0		.013	1.3

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
F1101	1	5
F1201	1	
G0701	1	
G0801	1	
G0901	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	1.3
1990	0	0	0	0 *	0 *	0 *	1.3
1995	0	0	0	0 *	0 *	0 *	1.3
2000	0	0	0	0 *	0 *	0 *	1.3
2005	0	0	0	0 *	0 *	0 *	1.3
2010	0	0	0	0 *	0 *	0 *	1.3
SAT	4256	2432	0	.318	.32	.928	1.3

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-30-85 AT 16:40:33

SEWER NAME: SH301 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
24	0	.003	0		.013	8.4

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
D0101	1	5
D0201	1	
H0501	1	
H0601	1	
SH302	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	8.4
1990	0	0	0	0 *	0 *	0 *	8.4
1995	0	0	0	0 *	0 *	0 *	8.4
2000	0	0	0	0 *	0 *	0 *	8.4
2005	0	0	0	0 *	0 *	0 *	8.4
2010	0	0	0	0 *	0 *	0 *	8.4
SAT	27681	15637	105	2.122	1.976	5.946	8.4

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-30-85 AT 16:40:33

SEWER NAME: SH306 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
18	0	.003	0		.013	3.9

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES: 7
D3501	1	
D3502	1	
D3601	1	
H3101	1	
H3201	1	
H3301	1	
SG301	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	3.9
1990	0	0	0	0 *	0 *	0 *	3.9
1995	0	0	0	0 *	0 *	0 *	3.9
2000	0	0	0	0 *	0 *	0 *	3.9
2005	0	0	0	0 *	0 *	0 *	3.9
2010	0	0	0	0 *	0 *	0 *	3.9
SAT	12181	7114	30	.941	.867	2.653	3.9

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-30-85 AT 16:40:33

SEWER NAME: SJ303 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
24	0	.003	0		0	8.3

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES: 2
SA301	1	
SJ301	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	8.3
1990	0	0	0	0 *	0 *	0 *	8.3
1995	0	0	0	0 *	0 *	0 *	8.3
2000	0	0	0	0 *	0 *	0 *	8.3
2005	0	0	0	0 *	0 *	0 *	8.3
2010	0	0	0	0 *	0 *	0 *	8.3
SAT	35416	20056.6	135	2.73	2.47	7.552 *	8.3

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-30-85 AT 16:40:33

SEWER NAME: SJ301 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
24	0	.003	0		.013	8.3

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
J3001	1	2
SJ302	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	8.3
1990	0	0	0	0 *	0 *	0 *	8.3
1995	0	0	0	0 *	0 *	0 *	8.3
2000	0	0	0	0 *	0 *	0 *	8.3
2005	0	0	0	0 *	0 *	0 *	8.3
2010	0	0	0	0 *	0 *	0 *	8.3
SAT	30635	17325	105	2.343	2.145	6.537	8.3

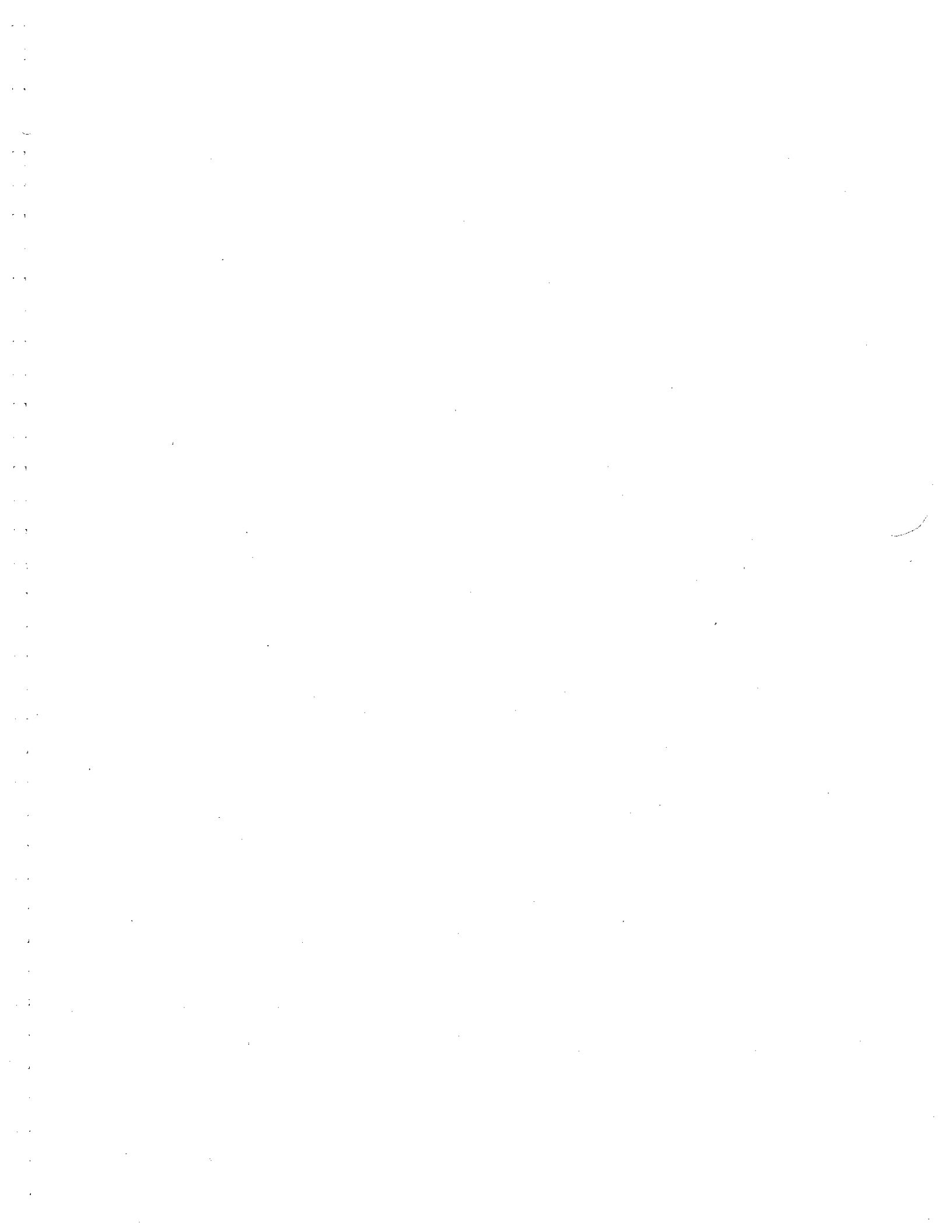
SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-30-85 AT 16:40:33

SEWER NAME: SJ302 SECTION #: 0 BASE MAP: 0

DIAMETER	LENGTH	SLOPE	INSTALLED	MATERIAL	ROUGHNESS	CAPACITY
24	0	.003	0		.013	8.3

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES:
A3501	1	4
A3601	1	
J3101	1	
SH301	1	

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	8.3
1990	0	0	0	0 *	0 *	0 *	8.3
1995	0	0	0	0 *	0 *	0 *	8.3
2000	0	0	0	0 *	0 *	0 *	8.3
2005	0	0	0	0 *	0 *	0 *	8.3
2010	0	0	0	0 *	0 *	0 *	8.3
SAT	30103	17021	105	2.303	2.115	6.431	8.3



CHAPTER 2

WASTEWATER COLLECTION SYSTEM PLANNING

Wastewater collection system planning must be founded on a firm knowledge of existing constraints, potential community development and aspirations of the city. Information required to implement a sewer master plan consists of delineation of the study area and extracting pertinent characteristics: land use patterns at the beginning and end years; sewer system inventories; system deficiencies and correlation of population projections determined by land use with more formal approaches generated by institutional and regulatory agencies.

Because of the need to generate sewage flows from population projections, the study area must be subdivided into drainage basins, and, demographics assessed from present conditions and projected throughout the study period. One of the drawbacks to conventional master planning is that the present and projected demographics are examined under "static" conditions at the time of report preparation, and, the final product remains out of date from the moment of publication. Part of this project, therefore, concerns development of a "dynamic" model capable of storage and operation of the City's IBM System 38 Computer.

The software system designated SEWSOFT II, consists of three programs, two of which are linked and form a DATA BASE which, in the future, may be extended to other municipal utilities. The SEWSOFT II system quantifies the study area characteristics, provides a dynamic model that reflects changing community profiles and models the sewer system so that flow rates can be computed at any point in the system and at any time over the planning period.

SEWSOFT II SYSTEM SOFTWARE

The SEWSOFT II system consists of three computer programs, two entitled ZONDATA and SEWSYST are written in basic for the IBM 38 Computer, while the third, entitled DESIGN is written in basic for the IBM-PC. Together the programs perform planning, design and cost estimating necessary to manage and operate the Sierra Vista sewerage system. Retrievable files sorted in the computer (selected portions of which may be viewed on the CRT or printed in hard copy) provide a permanent record of land use, population distribution, skeletal sewer system characteristics, sewerage quantities, sewerage flow rates and pipeline cost data.

Parallel files for independent study of selected areas may be created, altered and results assessed without impacting the permanent record. The SEWSOFT II system is also designed for compatibility with a future extended system in which a DATA BASE of individual land parcel characteristics may be searched by a fourth program to provide input to the ZONDATA program. Search programs will be written for each municipal utility to compile input for projections or computational procedures. More information on these programs is available in the instruction manual for the computer software.

PLANNING PROCEDURE

In order to characterize the planning area, the following steps were undertaken:

1. Subbasin delineation
2. Present land use map preparation (1985)
3. Future land use map preparation (2010)
4. Population projection correlation
5. Sewage flow rate adjustment
6. Sewage flow rate projection
7. Identification of present system deficiencies
8. Immediate system improvements
9. Development of future system alternatives
10. Future collection system selection and description

The following paragraphs describe the work carried out under items 1 through 4; subsequent chapters will address remaining items.

SUBBASINS

Sewerage subbasins represent drainage areas, flow from which collects to an identifiable point, trunk or interceptor sewer. Within the presently sewered area, subbasins are irregular and generally smaller due to local topographical constraints. Throughout the larger study area however, subbasins are delineated by section since the study area, on the larger scale, is

TABLE 2-1: Characteristics of Subbasin C0102

Zone Name: C0102		Date Active: 1985		Project Mode: DRI	
Curve Constant:	0.75	Total Acres:	160.00		
Resi GCD Var Fact:	1.00	Comm GAD Var Fact:	1.00		
Population Var Fact:	1.00	Infiltration Var Fact:	1.00		
Point Sources					
1: 0.000	2: 0.000	3: 0.000	4: 0.000	5: 0.00	
Acres at Data Begin Year					
D1: 0.00	D2: 15.90	D4: 53.10	D5: 0.00	D6: 0.00	
D7: 0.00	D11: 12.00	D12: 0.00	D15: 0.00	D17: 0.00	
D20: 0.00	CIA: 16.00	DVA: 97.00	MNA: 24.20	UDA: 38.80	
Acres at Data End year					
D1: 0.00	D2: 15.90	D4: 53.10	D5: 0.00	D6: 0.00	
D7: 0.00	D11: 12.00	D12: 0.00	D15: 0.00	D17: 0.00	
D20: 0.00	CIA: 47.00	DVA: 126.00	MNA: 32.10	UDA: 0.00	
Saturation Acres					
D1: 0.00	D2: 15.90	D4: 53.10	D5: 0.00	D6: 0.00	
D7: 0.00	D11: 12.00	D12: 0.00	D15: 0.00	D17: 0.00	
D20: 0.00	CIA: 47.00	DVA: 128.00	MNA: 32.00	UDA: 0.00	

relatively plane with a uniform slope to the northeast and only principal conduits, interceptor sewers, form the skeletal model used in this study.

Subbasin nomenclature is based on the alpha/numeric code consisting of township, section and subbasin number. Figure 2-1 indicates subbasins distributed throughout the study area.

The alpha/numeric code is composed of the township labeled A, B, C, D, or F, followed by two letters to designate the section (1-36); the remaining two letters (1-99) designate subbasins within a particular section. Thus, in Township 21 South, Range 20 East, subbasin B3602 represents an area in the northeast quadrant of Section 36 as shown in Figure 2-1. The Township code has been designated as follows:

<u>Township</u>	<u>Symbol</u>
21S, R21E	A
21S, R20E	B
22S, R20E	C
22S, R21E	D
23S, R20E	E
23S, R21E	F
23S, R22E	G
22S, R22E	H
21S, R22E	J

LAND USE

Preparatory to developing populations and sewerage flow rates, land use must be developed, not only for the present setting, but at the end of the study period. The reason for this is that demographics stored in the DATA BASE are utilized by the computer software to project intermediate values of population and sewerage flow rate at any point in the study period.

Appendices 2 through 4 in this document contain ZONDATA input and output characterizing each subbasin shown in figure 2-1. Each page of this print-out pertains to one subbasin, the name of which, is contained in the alpha/numeric coding at the top left and corner of the sheet, as shown in Table 2-1, which illustrates subbasin C0102.

Adjacent to the subbasin name is the date active; this date; indicates when the subbasin is connected into the sewerage

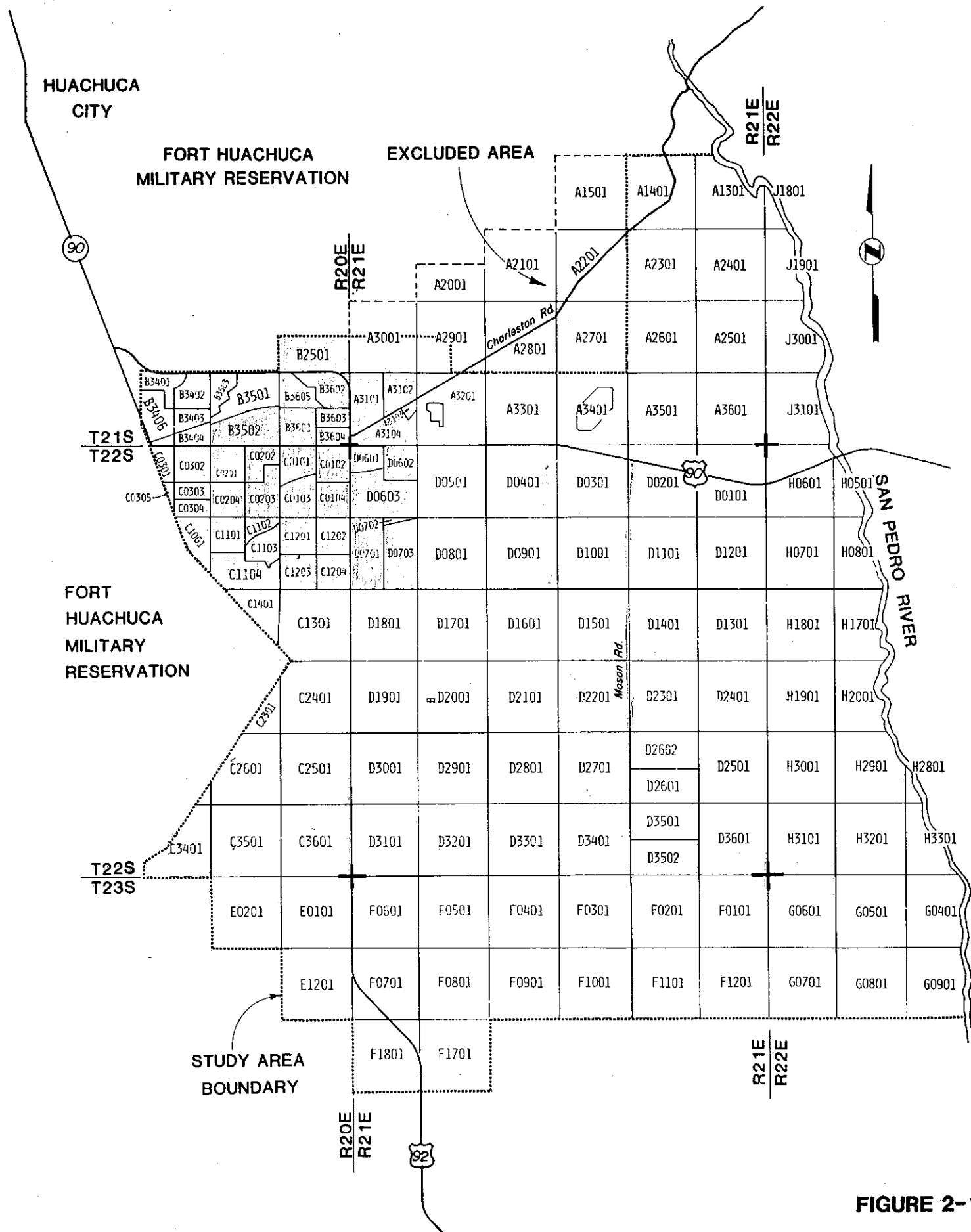


FIGURE 2-1

DRAINAGE SUBBASINS

system; in the case of subbasin C0102, this area is already connected, however, other subbasins are not presently connected and the dates of likely connection have been estimated.

The projection mode indicates the rate of development with time. Four projection modes may be utilized: arithmetic, geometric, decreasing rate of increase and logistic S. The use and nature of these projection curves is explained more fully in the operations manual. The curve constant determines the degree of curvature of a projection mode.

The total area of the subbasin is listed in the top right-hand corner which, in the case of subbasin C0102, totals 160 acres or one-quarter section. Immediately below are four "tweeking" factors for adjustment of per capita sewerage contribution, commercial sewerage contribution, subbasin population and infiltration factors.

Five point sources of sewerage flow are allowed in each subbasin and may be utilized for institutions or commercial/industrial establishments discharging a greater flow rate than the allowance provided in the general study data.

TABLE 2-2: Zoning Categories

Zoning Category	Description
D-1	1 dwelling unit per acre, single-family residence
D-2	2 dwelling units per acre, single-family residence
D-4	4 dwelling units per acre, single-family residence
D-5	5 dwelling units per acre, single-family residence
D-6	6 dwelling units per acre, single-family residence
D-7	7 dwelling units per acre, duplex/residences
D-11	11 dwelling units per acre, mobile home parks
D-12	12 dwelling units per acre, 3 bedroom apartments
D-15	15 dwelling units per acre, 2 bedroom apartments
D-17	17 dwelling units per acre, Rowhouse/townhouse
D-20	20 dwelling units per acres, 1 bedroom two story apartments
CIA	Commercial/industrial acres
DVA	Total developed acres
MNA	Municipal acres incorporating parks, drainageways and roads
UDA	Undeveloped acres
TZA	Total subbasin acres

Land use is displayed by the real estate zoning in acres at the beginning of the planning period (1985), period ending (2010) and under saturation conditions (ultimate development). The fifteen zoning categories include, eleven residential densities, commercial/industrial acres, total developed area, municipal areas (parks, drainageways and other right-of-ways), undeveloped private areas and the total subbasin area. Definitions and descriptions of each category are summarized in Table 2-2. By reference to Figure 2-1, for the subbasin location, and, Appendix 2, for subbasin characteristics, demographics of the entire study area may be found.

POPULATION PROJECTIONS

Population is a derived quantity computed by the software from land use distribution throughout the study area and population densities (persons per acre) assigned to each type of residential development. Table 2-3 displays general study data from the ZONDATA software, in which persons per dwelling unit classification are contained; these values were derived from the 1980 population census. Program software computes populations based on persons per dwelling unit, dwelling units per acre, and finally, acres per unit of study area. Unit sewage contributions shown in Table 2-3 reflect existing conditions and are not indicative of future contributions.

TABLE 2-3: General Study Data

ZONDATA	Zone Input Data	
Number of Zones:	108	Study Time Increment: 5
Data Begin Year:	1985	Study Begin Year: 1985
Data End Year:	2010	Study End Year: 2010
Population Densities (Persons/Acre)		
Type D1:	3.50	Residential GCD: 60.00
Type D2:	6.60	Commercial GAD: 600.00
Type D4:	13.50	Infiltration GAD: 200.00
Type D5:	15.20	
Type D6:	17.10	
Type D11:	18.00	
Type D12:	23.00	
Type D15:	25.80	
Type D17:	25.00	
Type D20:	27.50	

As can be seen in Table 2-3 there is an increase in persons per acre from 3.5 to 27.5 with increasing dwelling density, however there is a corresponding reduction in persons per dwelling unit from 3.5 for type D1 to 1.37 for type D20. In other terms the higher the dwelling density, the fewer persons per dwelling unit.

Projected populations connected to the sewerage system and populations resident within the study area, but not connected to the sewerage system, are summarized from the ZONDATA output in Table 2-4.

Since population estimates shown in Table 2-4 are in excess of those published by the Population Technical Advisory Committee (POPTAC) to the Governor of the State of Arizona and utilized by SEAGO in regional planning, a correlation of population by areas was undertaken during

TABLE 2-4: ZONDATA Population Projections

Year	Population Connected to Sewerage System	Population Residing Within Study Area
1985	20,710	35,336
1990	39,946	43,359
1995	49,513	53,313
2000	83,506	87,953
2005	93,944	99,483
2010	99,908	107,305
Saturation	--	180,322

this study. This task was also prompted in part, by City staff population estimates which show considerably more persons presently residing within the greater Sierra Vista area than projected by POPTAC.

Influence of Ft. Huachuca

Ft. Huachuca is a military establishment which, according to the 1980 census, had approximately 9,475 persons living on base. An environmental impact statement, prepared by the Army in the fall of each year to briefly review the impact of Ft. Huachuca's activities on the community of Sierra Vista states that in 1983, out of a total of 16,375 military personnel, including families, 9,860 were living on post while 6,515 lived in surrounding communities, including Sierra Vista. The figures supplied by the environmental impact statement closely correlate with the 1980 census.

Population Census 1980

During the 1980 Census, 15,400 persons were recorded living within the city limits while 9,475 resided within Ft. Huachuca. Outside city limits, and lying within the study area, 5,400 persons were separately recorded. The total number of persons within the study area therefore computes to 20,800 persons which, together with Ft. Huachuca component, brings the total regional population to 30,275 persons.

POPTAC Projections

SEAGO staff provided Sierra Vista population projections from POPTAC which are summarized in Table 2-5. Cheyne Owen understands that these population figures are drawn from the City of Sierra Vista and Ft. Huachuca. In this table, populations for both entities have been estimated at 27,625 persons in 1985 and 41,165 persons in 2010.

TABLE 2-5: POPTAC Projections

Year	Population
1980	25,000
1985	27,625
1990	29,550
1995	31,980
2000	34,745
2005	37,945
2010	41,165
2015	43,865
2020	46,590
2025	49,315
2030	52,015
2035	54,740

Correlation of Population Projections

Reviewing the 1980 census data, total regional population at that time was 30,275 persons; while City and Fort population

totalled 24,875 persons. In comparison POPTAC shows for 1980 25,000 persons. This indicates that the POPTAC projection in 1980 included only Ft. Huachuca and the City of Sierra Vista.

In 1985 the POPTAC projection is 27,625, which, when subtracting 9,400 on base, allows for 18,225 persons within the city area. The ZONDATA projection for 1985 is 20,710 persons connected to the sewerage system and 35,336 within the entire study area. These figures are consistent with the city staff estimates.

Examination of Table 2-4 also shows that the ZONDATA program estimates 107,305 persons in the study area by the year 2010 from an initial population of 35,336 in 1985. This represents a 3 percent rate of increase, which is considered conservative for this area since in recent years five percent has been experienced. It must be remembered that the City of Tucson is anticipated to double in population by the end of the century (15 years), and some migration to Sierra Vista will be inevitable. By the year 2000 Tucson will have over 1 million residents and therefore, it is reasonable to assume a considerable population shift to Sierra Vista should be anticipated.

SEWAGE FLOW RATES

The ZONDATA program computes sewage generated in each subbasin from population, commercial/industrial development and point source contributions together with storm inflow. The General Study Data, depicted in Table 2-3 shows unit contribution factors for the above sources, the values of which, have been adjusted to what is believed representative of the present Sierra Vista community. Residential flow rate is 60 gallons per capita per day, commercial/industrial contribution, 600 gallons per acre per day and infiltration rate is estimated at 200 gallons per day per acre.

Wastewater generated within the study area is summarized in Figure 2-6 for those subbasins actually connected to the system utilizing present unit contribution factors. This table also shows total land area under each zoning category together with population projections throughout the study period.

Populations, land areas, and sewage flow rates have been summarized by the ZONDATA program for the entire study area. This statistical data has been further subdivided into that for "active" acres, i.e.; connected to a sewerage system, and "total" areas which includes data for sewered and unsewered communities. At any given year sewage generated from the total area represents

a hypothetical quantity of sewage which would be collected if all areas were sewerred. This information is valuable for future planning.

In the computer printout in Appendix 2, the summary tables have also been compiled separately for the study areas east and west of Moson Road. As discussed in later chapters, the area east of Moson Road is anticipated for development during the next 25 years, and thus the characteristics of this study sector are of more interest than the sector east of Moson Road. Development patterns east of Moson Road are presently unknown, but have been assumed to include D1 residential zoning occuring well beyond the year 2010.

The average dry weather flow from the presently sewerred area, computes to 1.519 mgd, rises to 5.761 mgd within ten years and 7.343 mgd at the end of the study period in year 2010. This flow is predicated upon an assumed development rate and connection to the present conveyance system.

TABLE 2-6: Wastewater Generated in Subbasins Connected to Sewerage System

Year	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	95.60	757.80	86.10	15.40	206.50	163.40	0.00
1990	2,192.53	645.33	1,097.89	141.14	42.64	289.86	205.27	0.00
1995	2,613.99	978.03	1,364.67	188.71	43.68	295.52	245.52	0.00
2000	3,444.98	1,627.15	3,046.74	275.74	44.72	307.64	313.00	0.00
2005	3,864.84	1,787.93	3,520.99	305.56	45.76	320.87	347.34	0.00
2010	4,223.10	1,910.40	3,720.20	317.00	46.80	338.80	379.70	0.00

Year	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	18.40	5.10	32.50	344.70	1,725.50	1,258.13	2,751.79	5,735.40
1990	18.92	26.07	34.25	918.20	5,612.14	2,620.16	12,060.79	20,292.50
1995	19.43	40.71	52.09	1,198.27	7,040.63	2,977.27	10,434.60	20,452.50
2000	19.92	51.53	101.36	1,698.07	10,930.87	3,949.80	5,571.82	20,452.50
2005	20.41	60.27	103.70	1,944.61	12,322.28	4,297.70	3,832.61	20,452.50
2010	20.90	68.30	104.10	2,133.10	13,262.40	4,532.68	2,657.42	20,452.50

Year	Population	Average Dry Weather Flow	Peak Dry Weather Flow	Peak Wet Weather Flow
1985	20,710	1.519	3.448	4.045
1990	39,946	3.019	6.863	8.511
1995	49,513	3.761	8.460	10.465
2000	83,506	6.100	13.186	16.165
2005	93,944	6.872	14.641	17.960
2010	99,908	7.343	15.514	19.074

On a per capita basis, wastewater flows are presently considerably lower than the state average of 100 gallons per capita per day assumed by most planning studies and recommended in the Arizona Department of Health Services (ADHS) Bulletin 11. During computer model calibration unit contributions were adjusted downward to produce a total present flow rate that city staff feel is representative of that received at wastewater plant 1. Since operational problems with flow meters have precluded verification of flow rates during the course of this study reliance on historical records, pumping rates and City staff observations has been necessary. Cheyne Owen recommends that flow meters be repaired and calibrated to produce continuous flow records and that, further, the portable meter be placed at critical points within the conveyance system to record intermediate values and flow rates from different residential and commercial areas.

PREVIOUS FLOW METERING STUDIES

During preparation of the Facility Plan in 1978 unit wastewater flows were computed, analyzed and commented upon. At that time unit contributions (including industrial and commercial components) were assessed at approximately 70 gcd.

Present Unit Contributions

Using a presently connected population of 20,710 (1985) and flow rate of 1,519 mgd the unit contribution computes to 73.34 gcd approximately the same as that assumed in 1978. Four factors are primarily responsible for influencing the unit wastewater contribution, 1) increasing commercial/industrial activity/density 2) personal hygiene and in home appliances, 3) cost of water and domestic conservation efforts and 4) presence of Ft. Huachuca. While the first two factors tend to increase the unit contribution the third and fourth decrease this factor.

To test the influence of wastewater generated by Ft. Huachuca personnel, working on base but living Sierra Vista, the total population of City and base ($20,710 + 9,400 = 30,110$) was divided into the total combined sewage flow ($1.519 + 1.5 = 3.02$ mgd) to produce a new unit contribution factor of 100 gcd. This is considered representative of most Arizona communities and includes the industrial component.

The City of Mesa has a unit contribution of 100 gcd of which 75 gcd is of residential origin and 25 gcd from commercial/industrial (C/I) activities. The C/I component is equivalent to 1000 gcd gallons per acre per day (gad), while the ratio of commercial acres per 1000 residents is 25 acres.

Pima County manages wastewater for the City of Tucson and daily flow received at the Roger Road WWTP presently averages 27 mgd from a tributary population of 303,000; this computes to 90 gcd. Daily flow received at Ina Road WWTP averages 18 mgd from a tributary population of 202,000 resulting in a unit contribution of 90 gcd.

The City of Sierra Vista's collection system serves 345 acres of industrial commercial activity; if, as assumed 600 gad is derived from C/I activity a total flow from that source computes to 0.207 mgd, the population equivalent of which is 10 gcd, only 40 percent of that from other Arizona communities. Subtracting the C/I flow of 0.207 mgd from the total flow of 1.519 mgd and dividing by the population of 20,710 produces a domestic contribution of 63 gcd, also considerably below other Arizona communities.

Therefore, it may be anticipated that both C/I activity and domestic sewage contribution will increase as the population of Sierra Vista increases and the influence of Ft. Huachuca population on City wastewater flow rate declines.

To demonstrate this phenomenon a domestic contribution of 75 gcd was assumed for the present tributary population not working in Ft. Huachuca during the day (20710 - 6800 approx. = 13910 persons) while half the normal domestic sewage contribution is assumed for the 6800 persons working in Ft. Huachuca but living in Sierra Vista. The average per capita domestic flow rate is then:

$$\begin{aligned} \text{Average} & & & (37.5 \times 6800) + (75 \times 13910) \\ \text{Per capita flow rate} & = & \frac{\text{-----}}{\text{20710}} \\ & & & = 62.68 \text{ gcd} \end{aligned}$$

This is very close to the assumed present average flow rate of 60 gcd in the general study data (Figure 2-3) and 63 gcd computed on the previous page.

If the population working on base remains at approximately 6800 persons while the study area population continues to grow, the influence of Ft. Huachuca will gradually decline. The average domestic sewage contribution can be computed as follows:

$$\begin{aligned} \text{Average domestic Contribution} &= \frac{(\frac{UC}{2} \times P_B) + UC(P - P_B)}{P} \\ &= \frac{(37.5 \times 6800) + 75 (P-6800)}{P} \\ &= \frac{255,000 + 75 (P-6800)}{P} \end{aligned}$$

P = Study area tributary population

P_B = 6800, base population living in Sierra Vista

UC = 75, Unit domestic contribution

$\frac{UC}{2}$ = 37.5, Half domestic contribution for 6800 persons working on base

Plotting this average value against the study area population (Table 2-7) indicates that by 1990 the domestic contribution will add significantly more flow, and overload already deficient sewer segments.

Unit flow contributions of 75 gcd for domestic and 1000 gcd for C/I have therefore been used in this report for estimating future flows and proportioning interceptor sewers. These figures are consistent with other Arizona communities and provide a reliable basis for sizing interceptor sewers.

POINT SOURCES

The ZONDATA allows five point source contributions in each subbasin to account for abnormally large discharges that exceed the residential contributions or commercial/industrial allocation in the software program. The point source contributions may also be used to test for the impact of specific projects on the wastewater flow in the collection system. In the present DATA Base, one point source of 0.07 mgd has been included for the Sierra Vista Community Hospital in subbasin C0101.

TABLE 2-7: Unit Contribution Variation

Year	Tributary Study Area population	Population not working at Ft. Huachuca	Average Domestic Contribution
1985	20710	13910	62.30
1990	39946	33146	68.62
1995	49513	42713	69.85
2000	63506	76706	71.94
2010	99908	93108	72.45
SAT			75 (assumed)

CHAPTER 3

EXISTING WASTEWATER MANAGEMENT SYSTEMS

This section describes present collection and treatment facilities owned and operated by the City of Sierra Vista. The collection system flow rates (present and projected) are examined and deficiencies in the system identified.

CITY SYSTEM

The city system shown in Figure 3-1, conveys flow from nearly ten Sections to wastewater treatment plant 1. Pipe sizes are relatively small ranging from 8 to 27 inches in diameter. Within the incorporated area, over two sections of vacant land and several residential tracts are presently unsewered; in particular, Section B36, and Section C2, are largely undeveloped and nearly all owned by the State of Arizona.

At the northwest corner of the incorporated area, Section B34 contains the old town of Fry, the south portion of which, between the former railroad right-of-way and Fry Boulevard (subbasin B3404) still remains unsewered. To the east, the northeast quarter of Section B35 remains vacant. Several trailer parks west of 7th Street have never been sewered, while Village Meadows and the east portion of Town and Country Estates rely entirely on septic tanks. Lack of funding has been the principal reason why many of the developed areas have not yet been connected to the wastewater conveyance system.

EXISTING AND PROJECTED DEFICIENCIES

The existing sewer system was analyzed using techniques described in Chapter 2, on the city's IBM System 38 Computer, loaded with unit wastewater contribution factors, (60 gcd/600 gad,) from the present sewered community. Flows were projected through the study period to year 1995 at which time the influence of Ft. Huachuca is anticipated to commence declining due to increasing population not working on post.

From year 2000 to saturation, flows have been computed using assumed future unit contribution factors of 75 gcd domestic/1000 gad commercial and therefore represent an upper limit to pipeline flow rates.

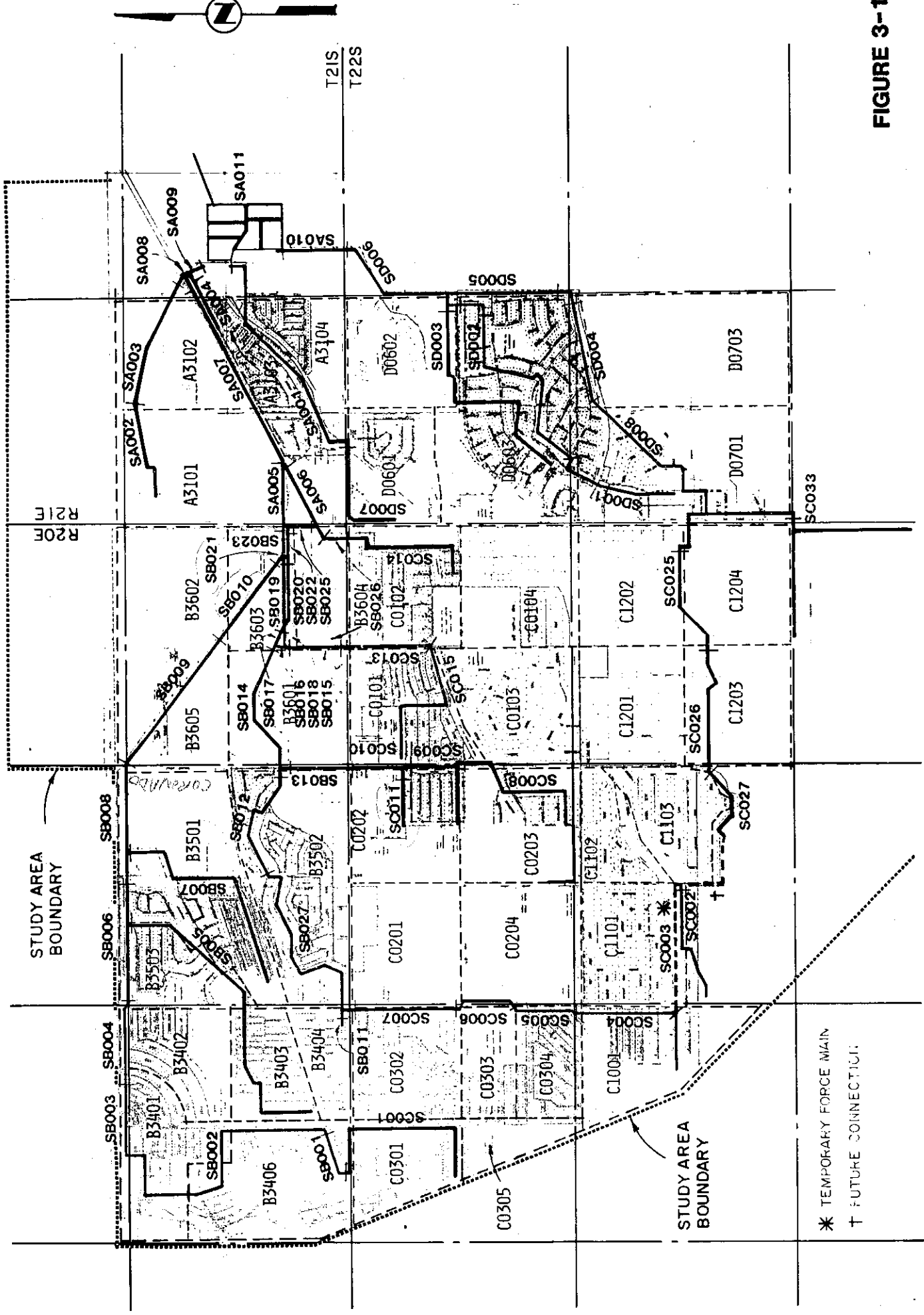


FIGURE 3-1

EXISTING CITY SYSTEM

Table 3-1 presents an inventory of principal elements of the present sewerage system and projected flow rates at saturation. A more complete analysis of flows may be found in the SEWSYST printout, in Appendix 3.

Correlating identification numbers of sewer segment impact points in Figure 3-1 with pertinent sewer characteristics in Table 3-1 provides an overview and appreciation of system performance and deficiencies. Figure 3-2 graphically depicts results shown in Table 3-1 and indicates those portions of the present system that are either presently overloaded or would be overloaded should improvements to the system not be implemented. Principal deficiencies in the existing system lie in segments of the Central Interceptor; exceptions are those sewer segments to which future extensions are planned resulting in an overload at critical points. The following subsections describe the deficiencies by time period.

Table 3-1 Existing Sewerage System Inventory and Projected Flows

Name	DIA	Capacity	ADWF 1985 ^a	PWWF 1985 ^a	PWWF SAT ^b
SA001 *	8	0.52	0.13	0.32	* .66
SA002 *	8	0.68	0.01	0.02	* 1.65
SA003 *	12	1.46	0.01	0.03	* 2.04
SA004 *	8	0.44	0.02	0.05	* .06
SA005 *	15	4.40	0.75	1.60	* 4.45
SA006 *	10	1.26	0.32	0.74	* 2.42
SA007 *	18	5.65	1.08	2.25	* 6.67
SA008 *	15		0.03	0.08	* 2.08
SA009 *	18	5.50	1.10	2.30	* 8.57
SA010 *	30	13.90	0.29	0.63	*16.18
SB001	10	0.83	0.07	0.17	.45
SB002	12	1.01	0.15	0.36	.76
SB003	15	1.62	0.18	0.43	1.03
SB004	15	1.62	0.25	0.58	1.31
SB005 *	8	0.53	0.16	0.39	* .54
SB006	12	2.97	0.42	0.91	1.77
SB007	10	1.52	0.04	0.12	.54
SB008	15	3.91	0.46	1.00	2.21
SB009	15	3.30	0.47	1.04	2.36
SB010	15	3.30	0.47	1.04	2.50
SB012 *	10	1.08	0.25	0.59	* 1.77
SB013 *	8	.45	0.10	0.26	* 1.30
SB014 *	10	0.96	0.35	0.80	* 2.99
SB015 *	8	0.59	0.14	0.31	* .77
SB016	8	0.59	0.04	0.10	.35
SB017 *	10	0.88	0.32	0.73	* 2.71
SB018	12	1.60	0.18	0.39	1.08
SB019	12	2.32	0.27	0.61	2.01
SB020 *	10	1.52	0.27	0.61	* 2.01
SB021	8		0.01	0.04	.13
SB022 *	10	1.52	0.25	0.58	* 1.92
SB023	15	4.96	0.75	1.60	4.45
SB025 *	10	0.78	0.25	0.58	* 1.92
SB026	10	1.08	0.07	0.19	.57
SB027 *	10	0.84	0.20	0.48	* 1.48
SC001	8	0.53	0.06	0.16	.41
SC002	8	0.58	0	0	.23
SC004	8	0.52	0.03	0.10	.28
SC005	8	0.52	0.05	0.22	.42
SC006	8	0.59	0.08	0.22	.57
SC007	10	1.02	0.15	0.37	.98
SC008	8	0.50	0.03	0.09	.20
SC009	12	1.03	0.05	0.14	.61
SC010	12	1.46	0.08	0.22	1.21
SC011	8	.45	0.04	0.11	.24
SC013 *	8	0.59	0.14	0.31	* .65
SC014	10	1.08	0.07	0.19	.57
SC015	8	0.39	0.07	0.16	.37
SD001	8	0.53	0.01	0.03	.26
SD002 *	8	0.52	0.14	0.34	* .72
SD003	10	0.85	0.12	0.30	.39
SD004	10	1.01	0.02	0.06	.70
SD005	Force	Main	0.02	0.06	13.46
SD006 *	27	10.76	0.29	0.63	*16.18
SD007	8	0.78	0.04	0.11	.30
SD008	10	0.94	0.02	0.06	.42

^aAt present contribution rates 60 gcd/600 gad/200 gad inflow.
^bAt future contribution rates 75 gcd/1000 gad/200 gad inflow.
 *Denotes existing sewer.

1985 - 1990 Period

Pipe segments SB014 and SB017, the most critical portions of the Central System, have capacities of 0.96 and 0.88 mgd respectively and these will be exceeded during this five year period. No pipeline segments are anticipated to become overloaded during the period 1990 to 1995.

1995 - 2000 Period

During this time period many sewers are anticipated to approach or exceed their capacity, principally as a result of using higher domestic and commercial loading factors designed to simulate the decreasing effect of Ft. Huachuca. If unit contributions do not rise to 75 gcd/1000 gad, lower sewage flow rates will result and augmentations can be delayed.

Sewer segments SA001, (Evergreen Drive,); SA002, (Industrial Park,); SA006, (Charleston Highway West,); SA007, (Charleston Highway at Plant 1,); SA009, (Plant 1 siphon,); SB012, (Bella Vista Estates,); SB013, (Moorman Drive,); SB015, (Buena High School,); SB020 and SB022, (Equestrian Center,); SB025, (Highway 92 north of Charleston Road,); SB027, (Bella Vista Estates,); and SB002, (Pueblo del Sol,) will all require augmentation unless flow is diverted in upstream segments. No pipeline segments will reach critical capacities over the periods 2000 - 2005 or 2005 - 2010.

2010 to Saturation

After 2010 several more segments reach capacity including SA003, (Industrial Park behind Cochise College,); SA005, (between Highway 92 and Charleston Highway,); SA010, (Pueblo del Sol Interceptor,); SB019, (Equestrian Center,); and SD006, (upstream portion of the PDS Interceptor.)

This information is concisely summarized in Table 3-2 which provides a visual display of flow rates at the indicated time periods, and when the sewer is at capacity.

Table 3-2 Deficiencies in Existing Sewerage System

Sewer	Capacity	Diameter	Length	1985	1990	1995	2000	2005	2010	SAT
SA001	0.52	8	600	0.32	0.39	0.43	<u>0.62</u>	0.64	0.66	0.66
SA002	0.66	8	2700	0.03	0.20	0.32	<u>0.67</u>	0.86	1.02	1.65
SA003	1.42	12	3000	0.03	0.22	0.36	0.93	1.19	1.42	<u>2.04</u>
SA005	4.40	15	1700	1.60	1.92	2.08	3.49	3.74	3.91	<u>4.45</u>
SA006	1.26	10	1900	0.74	1.01	1.10	<u>1.98</u>	2.12	2.22	2.42
SA007	5.65	18	1000	2.25	2.81	3.07	5.30	<u>5.68</u>	5.94	6.67
SA009	5.50	18	200	2.30	3.04	3.41	<u>6.20</u>	6.83	7.32	8.57
SA010	13.90	30	1300	0.63	3.10	3.92	8.24	9.32	10.13	<u>16.18</u>
SB005	0.53	8	700	0.48	0.49	0.50	0.52	<u>0.53</u>	0.54	0.54
SB012	1.06	10	1900	0.59	0.84	0.92	<u>1.42</u>	1.48	1.53	1.77
SB013	0.58	8	1600	0.26	0.36	0.44	<u>0.69</u>	0.89	1.07	1.30
SB014	0.96	10	3200	0.80	<u>1.15</u>	1.30	2.29	2.50	2.66	2.99
SB015	0.59	8	1700	0.31	0.35	0.36	<u>0.68</u>	0.72	0.73	0.77
SB017	0.88	10	500	0.73	<u>1.04</u>	1.18	2.07	2.26	2.41	2.71
SB020	1.52	10	2200	0.61	0.81	0.89	<u>1.61</u>	1.73	1.82	2.01
SB022	1.52	10	500	0.58	0.77	0.85	<u>1.53</u>	1.65	1.73	1.92
SB025	0.88	10	900	0.58	0.77	0.85	<u>1.53</u>	1.65	1.73	1.92
SB027	0.89	10	600	0.48	0.72	0.78	<u>1.32</u>	1.33	1.34	1.48
SC013	0.59	8	2500	0.31	0.35	0.36	0.58	0.59	0.60	0.65
SD002	0.53	8	4000	0.34	0.39	0.42	<u>0.63</u>	0.67	0.72	0.72
SD006	10.76	27	3400	0.63	3.10	3.92	8.24	9.32	10.13	<u>16.18</u>

Unit Contributions:

1985 - 1999 60 gpd, 600 gpd C/I, 200 gpd inf.
 2000 - SAT 75 gpd, 1000 gpd C/I, 200 gpd inf.

SYSTEM IMPROVEMENTS

Table 3-3 sets forth augmentation pipeline sizes, slopes, lengths, and costs necessary to augment those sewers anticipated to be deficient at the time periods indicated.

Table 3-3 Improvements to Existing System

Sewer	Capacity mgd	Projected Flow mgd	Additional Capacity Needed mgd	Slope	Diameter inches	Length feet	Cost \$	Year ^a	Present Worth ^d
SA001	0.52	0.66	0.14	0.004	8	600	20,400	2000	4,900
SA002	0.66	1.65	0.99	0.0065	10	2700	106,400	2000	25,500
SA003	0.42	2.04	1.62	0.0035	15	3000	150,200	SAT	1,300
SA005 ^b	4.40	4.45	1.21	0.0096	10	1700	67,000	2000	16,000
SA006 ^c	1.26	2.42	1.16						
SA007	5.65	6.67	1.02	0.006	10	1000	39,400	2000	9,400
SA009	5.50	8.57	3.07	0.006	15	200	15,000	2000	3,600
SA010	13.90	16.18	2.28	0.0024	18	1300	76,700	SAT	700
SB005	0.53	0.54	0.01	0.004	8	700	23,800	2000	5,700
SB012	1.06	1.77	0.71	0.005	10	1900	74,900	2000	17,900
SB013	0.58	1.30	0.72	0.005	10	1600	63,100	2000	15,100
SB014	0.96	2.99	2.03	0.004	15	3200	160,200	1990	99,500
SB015	0.59	0.77	0.18	0.005	8	1700	57,800	2000	13,800
SB017	0.88	2.71	1.83	0.0032	15	500	25,000	1990	15,500
SB020	1.52	2.01	0.49	0.010	8	2200	74,800	2000	17,900
SB022	1.52	1.92	0.40	0.010	8	500	17,000	2000	4,100
SB025 ^c	0.88	1.92	0.94						
SB027	0.89	1.48	0.59	0.0035	10	600	23,700	2000	5,700
SC013	0.59	0.65	0.06	0.005	8	2500	85,000	SAT	700
SD002	0.53	0.72	0.19	0.004	8	4000	136,000	2000	32,600
SD006	10.76	16.18	5.42	0.0038	21	3400	266,600	SAT	2,300
									292,200

^a Year ending 5 year period during which capacity reached or exceeded.
^b Pipeline exceeded at saturation but improvements need to be carried out at year 2000 or before to relieve segments SA006 and SB025.
^c SA005 augmentation relieves both SA006 and SB025.
^d Discount rate 10 percent.

If improvements to rectify these deficiencies were carried out these time periods, estimated costs and present worths would be as follows:

<u>Five Year Period Ending</u>	<u>Cost</u>	<u>Present Worth</u>
1990	\$ 190,200	\$ 118,100
2000	722,500	173,000
2010-Saturation	<u>608,100</u>	<u>5,200</u>
	\$ 1,520,800	\$ 296,300

Alternate wastewater management systems designed to alleviate deficiencies and provide wastewater collection systems to all areas within the incorporated area are discussed and developed in Chapter 5.

WASTEWATER TREATMENT FACILITIES

The purpose of this subsection is to describe and document treatment facilities within the study area, and to provide background material for assessing long term participation of these treatment works in the overall regional wastewater management system. Figure 3-3 pinpoints the location of these treatment facilities. Of the six treatment plants in the study area, two are owned and operated by the City of Sierra Vista. Although Ft. Huachuca wastewater treatment plant does not strictly fall within the study area, characteristics of that plant will be discussed since there might be a future possibility that the Post wastewater may be treated by the city.

POST WASTEWATER TREATMENT PLANT (FT. HUACHUCA)

The Post wastewater treatment plants are owned and operated by Ft. Huachuca military establishment. Plant 2, Section 28, T21S, R20E near the junction of the East Gate with Highway 92, will be discussed since Plant 1, although operable, is not utilized to the same extent as Plant 2.

The facility provides secondary treatment utilizing primary and secondary clarifiers together with a rock trickling filter and anaerobic digesters. During the last three years, total annual flow has varied between 300 and 685 million gallons, with an average daily flow of between 1.3 and 1.6 mgd. Effluent is either reused as irrigation water on the golf course and parade grounds or transferred to the eastern military reservation where it is passed through five holding lagoons where evaporation and percolation occur. No discharge to natural water courses is required.

GOLDEN ACRES TREATMENT PLANT

The Golden Acres treatment system to the south of the incorporated area of Sierra Vista serves the Golden Acres Mobile Home Park, and has 288 connections serving 700 residents. The wastewater treatment plant consists of two ponds, each approximately one acre in area. The facility is located to the east of the trailer park in the west half of Section D20.

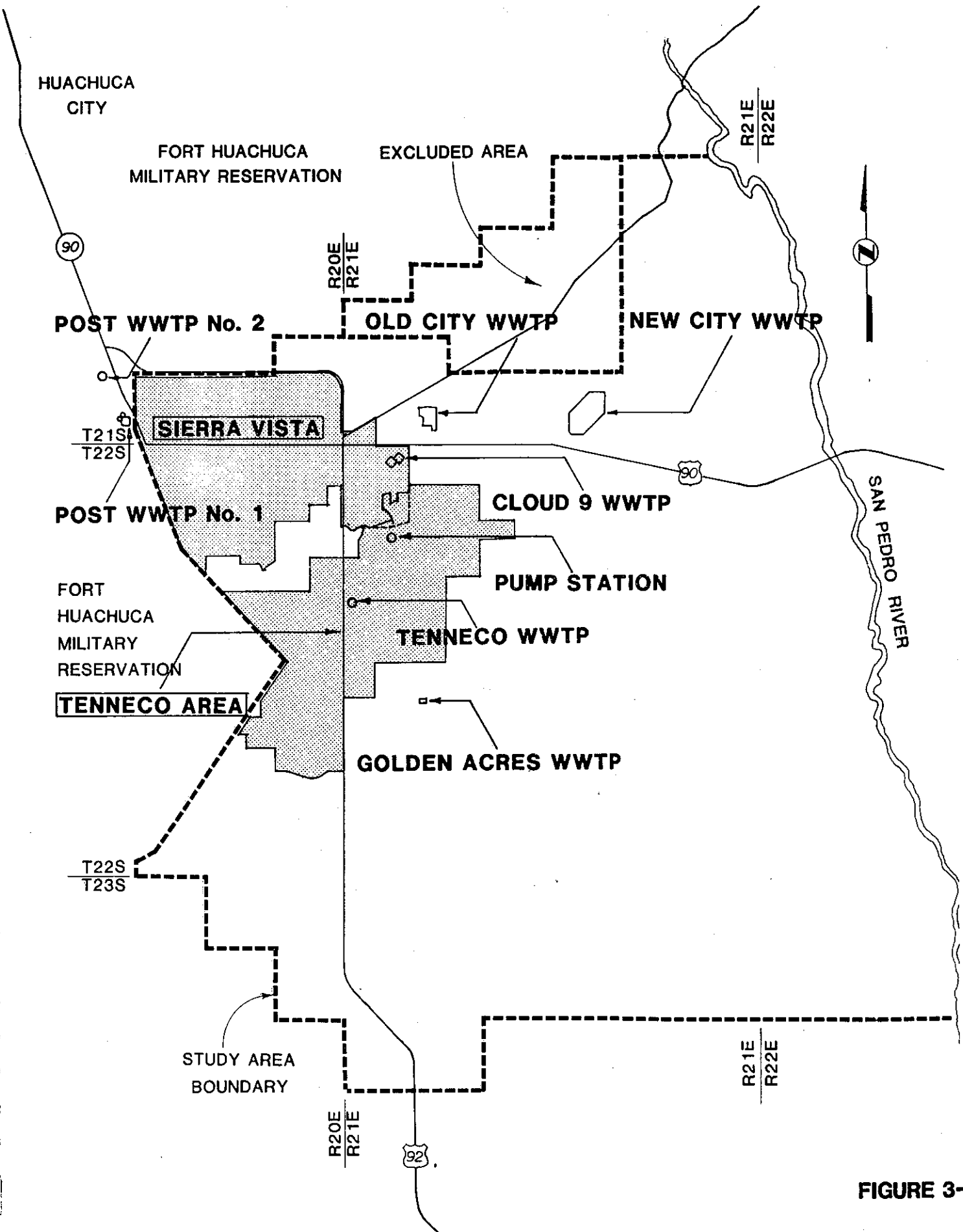


FIGURE 3-3

WASTEWATER TREATMENT PLANTS

The wastewater treatment plant is maintained by an operator who lives in the mobile home park subdivision; infrequent monitoring and overall responsibility rests with Southland Sanitation Company. No mechanical aeration has been provided.

During recent Arizona Department of Health Services' inspections the company was congratulated on maintaining the plant within compliance rules and regulations.

TENNECO WASTEWATER TREATMENT PLANT

The Tenneco Development Company has recently discontinued use of a small packaged wastewater treatment plant in the northwest corner of Section D18. The plant is on the immediate east side of Highway 92 adjacent to the golf course and residential developments presently under construction by Tenneco.

The plant was originally constructed as a 50,000 gpd facility; however, further additions to the aeration tank increased secondary treatment capacity to 100,000 gpd. Due to the limited secondary clarifier capacity, however, total plant capacity remains approximately 50,000 gpd. The plant is presently available for resale.

CLOUD NINE WASTEWATER TREATMENT PLANT

The Cloud Nine Wastewater Plant consists of two, two acre oxidation ponds located to the east of Cloud Nine Trailer Park at the northeast boundary of Section D6. Approximately two hundred fifty nine connections are tributary to the system in addition to seventy five motel units; the flow generated within the tributary area is nearly 60,000 gpd. Monitoring is carried out by a local laboratory.

Recent acquisition of the sewage system by the City of Sierra Vista will eliminate the need for the oxidation ponds and connections will be made directly into the adjacent 27-inch interceptor leading to the City of Sierra Vista's Wastewater Treatment Plant.

CITY OF SIERRA VISTA'S WASTEWATER TREATMENT FACILITIES

The City of Sierra Vista operates two wastewater treatment plants that are interconnected with a 2 mgd 20 inch diameter pressure line and operate as a single entity. The "old plant" (Plant 1) is located on the west side of Section A32 on 60.36

acres of ground provided by the State of Arizona adjacent to the Charleston Highway. The "new plant" (Plant 2) covers the entire area of Section A34. Design data for both treatment plants may be found in Table 3-4.

Table 3-4 Design Data-Treatment Plants

Parameter	Plant 1	Plant 2
Treatment process	Oxidation Ponds	Oxidation Ponds
Site area, acres	60.38	640
Pond area, acres		
each	5.58	8
total	34.8	84
Pond Depth, feet average	4.0 (3-5.5)	5.5
Recirculation	Yes	Yes
Raw wastewater quality, mg/l		
BOD	200	200
SS	200	200
Capacity, each, mgd	<1	<2
Combined capacity	--	2.9
Effluent quality, mb/l		
BOD	30	30
SS	90	90
Irrigation area, acres		370
Irrigation rate, gpd/acre		90-112

Wastewater Treatment Plant 1

The schematic layout of Plant 1 may be found in Figure 3-4; six oxidation ponds of approximately 5.5 acres each have combined area of approximately 33 acres and with a liquid depth which varies from 3 to 5.5 feet. Of the six ponds at Plant 1, three labelled D, E and F were constructed in 1967 with water surface elevations of between 4357 to 4364; ponds labelled A, B and C were constructed in 1974 and have water surface elevations of between 4374 to 4380 feet, almost 18 feet higher.

Raw sewage from the Pueblo del Sol, Bravo and Charleston lines enters the plant and discharges into 5 of the 6 ponds. A portion of the flow is bypassed through a 20 inch diameter pressure line directly to the new plant, together with overflow from the 6th pond. From the Pueblo del Sol interceptor, approximately 70,000 to 80,000 gpd are received with a BOD and suspended solids (SS) concentration of approximately 180 milligrams per liter (mg/l). The Bravo interceptor discharges 200 to 300 gpd with a higher concentration of BOD and SS of between 200 and 220 mg/l. The Charleston line entering the plant from the north conveys the bulk of the flow from the planning area, amounting to 1.0 to 1.3 mgd with an organic and solids load of approximately 200 mg/l. The total flow from the tributary sewered area fluctuates from between 1.45 to 1.68 mgd with an average raw water quality of approximately 200 mg/l of BOD and SS.

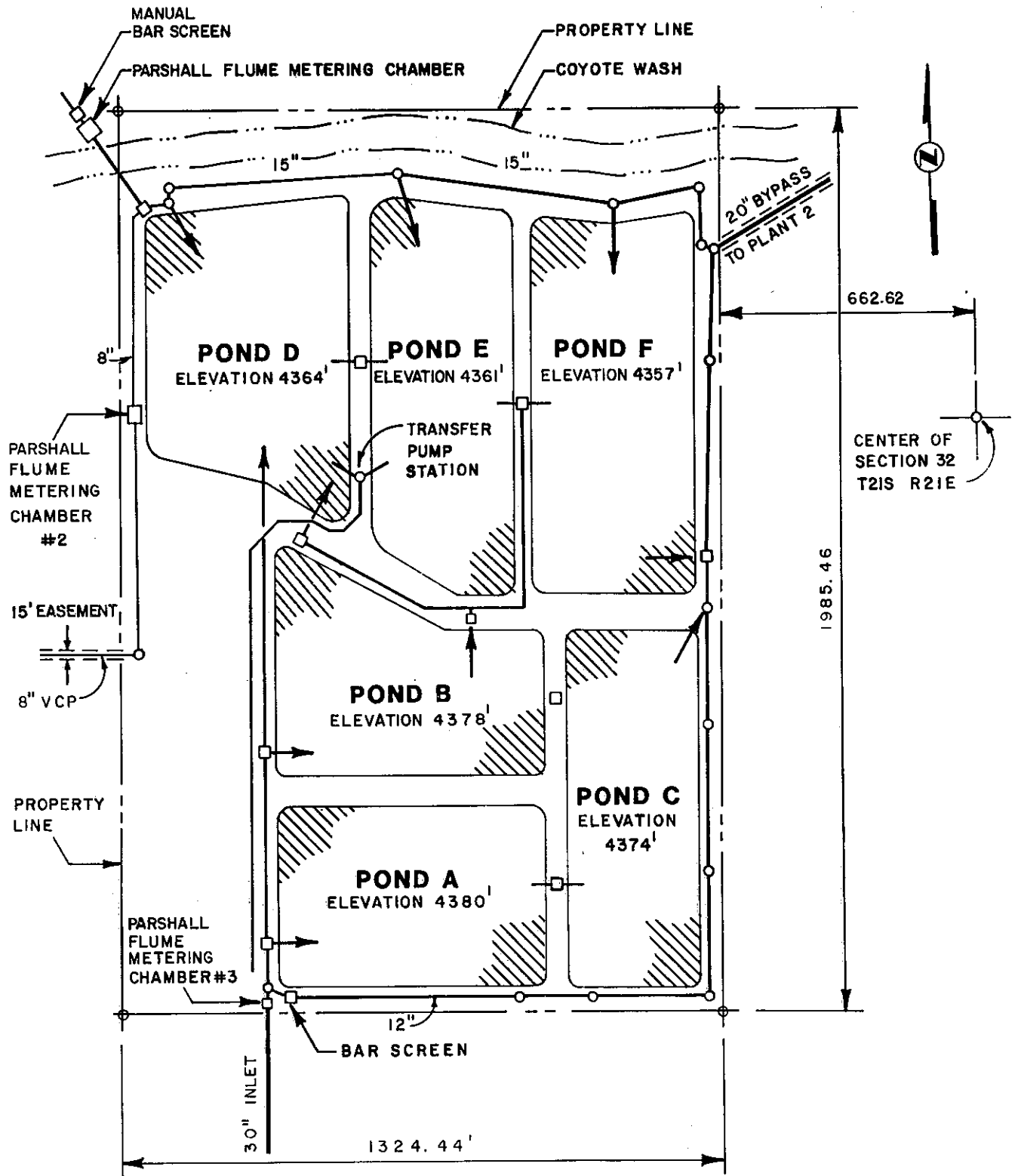


FIGURE 3-4
WASTEWATER
TREATMENT PLANT 1

Effluent quality recorded at the "old plant" is approximately 30 mg/l of BOD and 90 mg/l of SS with fecal coliform counts of between 300 and 400 CFU per 100 milliliters.

Flow recording facilities operate on a continuous basis and flow splitting between old and new plants is gauged by manual operation of valves; bar screens and grit removal facilities are provided. If half the flow were diverted to the old plant, and subdivided into five of the six ponds, the BOD loading would compute to 50 pounds per acre per day which is satisfactory for the climate and temperature ranges experienced in the ponds. No mechanical mixing is practiced, and, although BOD loading is satisfactory, dispersion of organics within the pond is poor and temperature stratification is evident throughout a typical diurnal and seasonal cycle. Overturning occurs in spring and fall causing unpleasant odors and some complaints from nearby residents. The plant capacity under existing conditions is estimated at less than 1 mgd.

Maintenance consists of monitoring ponds for scum control adjusting organic loading to each, mitigating the effects of overturning during spring and fall and control of weeds and bank erosion.

Wastewater Treatment Plant 2

The new wastewater treatment facility in Section A34 consists of ten oxidation ponds arranged in three tiers with a total area of 84 acres. Acquisition of the entire area of Section 34 by the City of Sierra Vista allowed construction of the ponds in the central area with alfalfa fields around the perimeter. These fields are irrigated with plant effluent and as a result, a zero discharge is maintained. Figure 3-5 depicts a schematic layout of the ponds while Figure 3-6 illustrates a schematic of principal conduits in both Plants 1 and 2.

Flow received from the plant intertie is composed of a portion of raw wastewater from the service area together with effluent from Plant 1. Influent wastewater is evenly distributed to the three ponds in the first tier, effluent from which, passes to the second and third tiers. Effluent is recovered from the lowest tier of ponds which meets quality standards of 30 mg/l of BOD and 90 mg/l SS and is often of 30:30 secondary quality.

Recirculation from the lower to upper tier of ponds is accomplished by a 1,000 gpm pump, throttled down to between 100 to 200 gpm. No mechanical mixing of the ponds is carried out and as a result temperature stratification and pond overturning

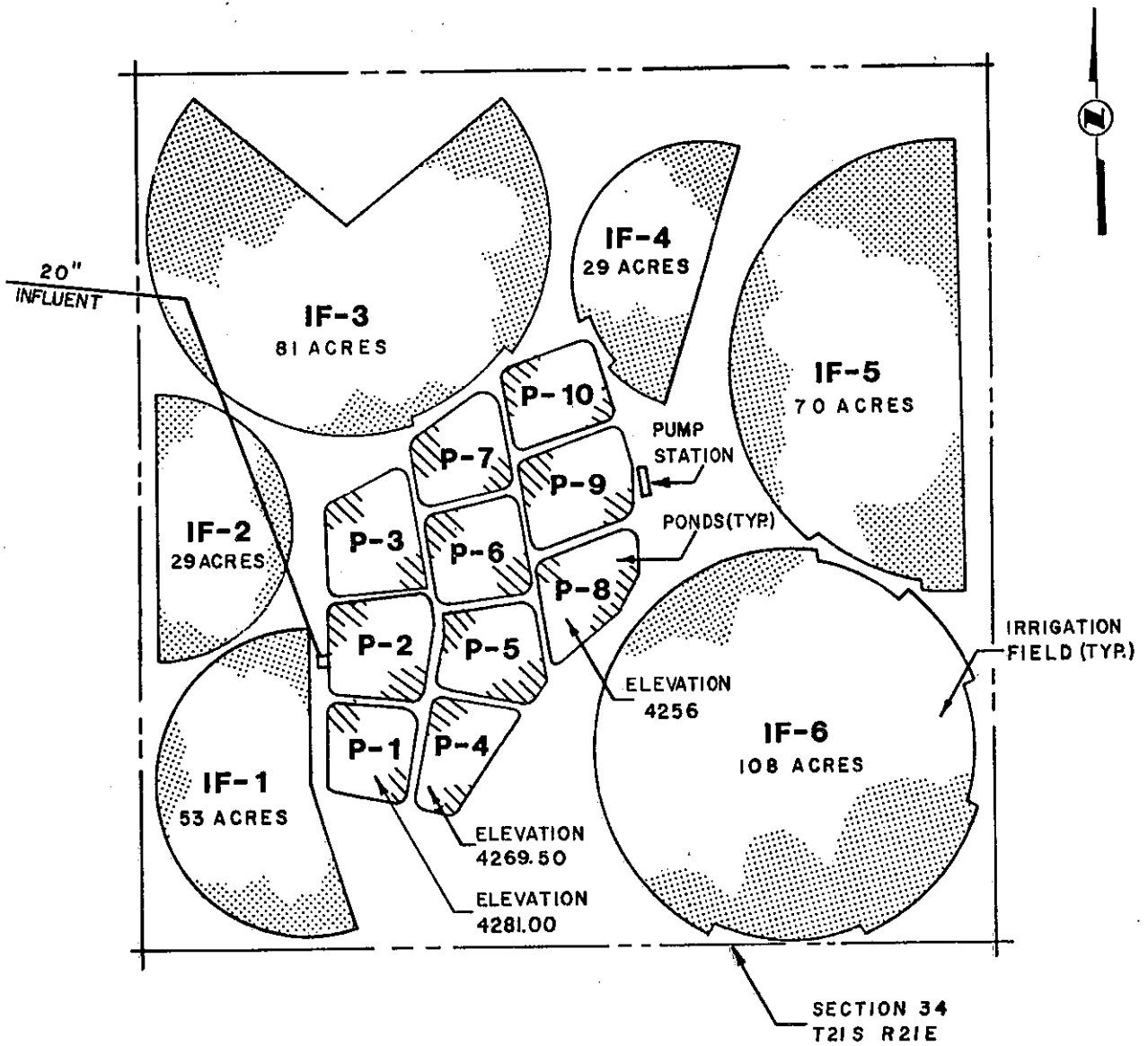


FIGURE 3-5
WASTEWATER
TREATMENT PLANT 2

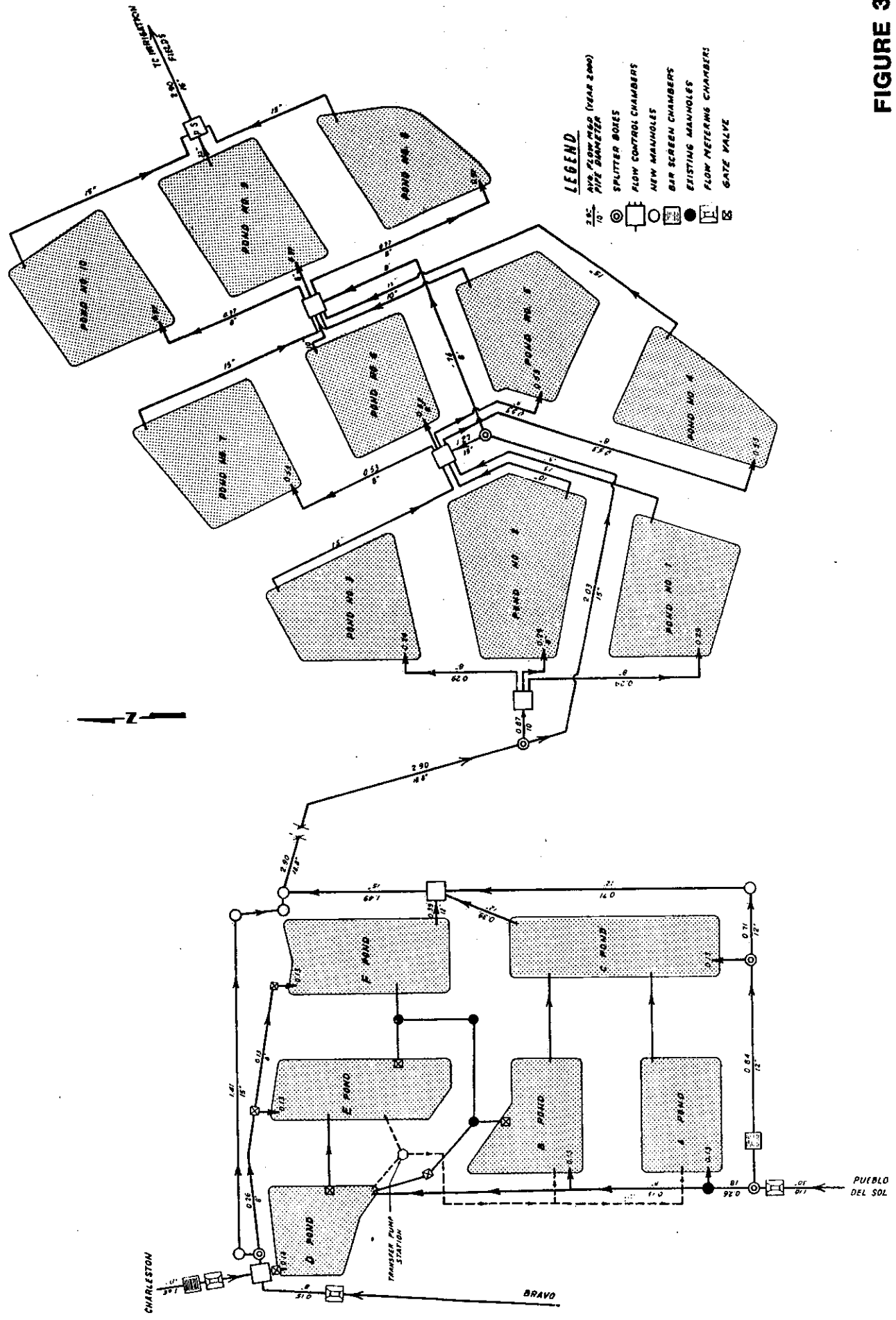


FIGURE 3-6
PLANT PIPING SCHEMATICS

occurs in diurnal and seasonal pattern. Overturning has been mitigated over the last year by drawing down the ponds in the fall and recirculating. This procedure reduces the liquid volume, increases recirculation rate and has minimized the severity and extent of the turnover.

Pond temperatures have been recorded at between 8 and 9 degrees centigrade during the coldest three months of the year and 24 to 25 degrees centigrade during the summer. The capacity of Plant 2 is estimated at less than 2 mgd so that the total wastewater treatment capacity of the City of Sierra Vista is below 3 mgd. Projected wastewater flows from the tributary area are expected to exceed 3 mgd by the year 1990 as discussed in Chapter 2. Improvements to the wastewater treatment processes are discussed in Chapter 5.

CHAPTER 4

BASIS OF COMPARISON

This section sets forth the basis of economic comparison between collection system and treatment plant alternatives discussed in Chapters 5 and 7.

SEWER CONSTRUCTION COSTS

Table 4-1 presents the unit cost of gravity sewers for pipe sizes 8 through 72-inches in diameter and excavation depths from 8 to 30 feet. Estimates are also provided for pavement replacement, utility interference and traffic control costs. The tabulated figures are representative of construction at an ENR index of 4000 and construction at other indices should be proportioned.

TABLE 4-1: Unit Cost of Gravity Sewers

Pipe size, inches	Cost, dollars per lineal foot for stated depths of dry or moderately wet excavation						per lineal foot	
							Pavement replacement ^a	Utility interference and traffic control
	8-foot	10 foot	12-foot	15-foot	20-foot	30-foot		
8	30.05	34.01	38.04	44.22	54.79	76.69	4.60	4.60
10	34.81	39.42	44.13	51.34	63.67	89.22	5.40	4.60
12	37.68	42.30	47.00	54.21	66.54	92.09	5.40	4.60
15	45.44	50.06	54.76	61.97	74.30	99.85	5.40	4.60
18	53.74	59.01	64.40	72.64	86.73	115.93	6.00	4.60
21	73.15	78.42	83.81	92.05	106.14	135.34	6.00	5.40
24	84.23	90.16	96.22	105.49	121.34	154.19	6.00	5.40
27	98.03	103.96	110.02	119.29	135.14	167.99	7.00	5.40
30	111.18	117.11	123.17	132.44	148.29	181.14	7.40	5.40
33	127.53	134.12	140.85	151.15	168.77	205.20	8.60	5.40
36	139.61	151.15	162.92	180.95	211.78	275.66	9.00	6.00
42	150.66	163.02	175.64	194.95	227.98	296.42	11.00	6.00
48	170.85	184.04	197.49	218.09	253.32	326.32	12.60	6.00
54	204.46	218.47	223.77	254.66	292.10	369.67	14.00	7.00
60	223.51	238.35	253.49	276.66	316.30	398.43	15.40	7.70
72	262.90	279.39	296.21	321.96	366.01	457.27	18.60	9.10
Pavement replacement factor	1.0	1.1	1.2	1.5	2.5	4.0		

Note: Costs are based on an ENR construction cost index of 4000 and provide for use of vitrified clay pipe from 12 to 33 inches in diameter and for use of vitrified plate lined reinforced concrete pipe in larger sizes. Costs include pipe, excavation, laying and jointing, corrosion protected manholes, backfill, testing cleanup and contractor's overhead and profit. Bedding and initial backfill is select imported granular material and subsequent backfill is native material. Allowance is included for wet trenching and rock excavation during 5 percent of the construction. Cost of trench support is included for trench depths greater than 12 feet. For very wet conditions, add \$6.35 per lineal foot plus \$0.65 per lineal feet per foot of depth over 12 feet. Costs do not include allowance for construction contingencies, engineering, or right-of-way acquisition.

^aFor trench with straight side walls. For sloping sides, multiply by pavement replacement factor for stated depth.

COLLECTION SYSTEM COSTS

Collection system operation and maintenance costs have fluctuated in response to system needs and increasing responsibility assumed by the city for systems in recently sewerred or annexed areas. For fiscal year 1984/85 the allocated budget totalled \$164,476 which included items for labor, supervision, supplies, maintenance direct costs, electrical (flow meters) and vehicle expenses. Spread over nearly 10 sections the distribution system unit cost computes to \$16,600 per square mile. Table 4-2 summarizes recent collection and treatment operation and maintenance costs for the City of Sierra Vista.

In comparison the City of Mesa's operation and maintenance costs are \$60,000 per square mile. As a result it may be anticipated that operation and maintenance costs will increase as the service area is extended. One mitigating factor is that most of the Sierra Vista collection system is laid at relatively steep grades and maintenance is thereby reduced. In comparison much of the collection systems in Tucson and Mesa are laid on relatively flat grades where regular cleaning and inspection is mandatory. Near term future costs for Sierra Vista are assumed to rise to \$25,000 per square mile.

SEWAGE PUMPING STATIONS

Table 4-3 sets forth costs for sewage pumping stations and associated force mains. Smaller units are assumed to be "packaged" types while large units will require concrete wet wells, pump and motor rooms.

TABLE 4-2: Sierra Vista Collection and Treatment O&M Costs^a

Item	Collection	Treatment	Total
Labor	76,734	130,656	207,390
Supervision	9,857	9,857	19,704
Supplies	-	10,000	10,000
Maintenance	48,965	20,000	68,965
Utilities	-	34,000	34,000
Buildings	-	6,000	6,000
Electrical	1,450	1,450	2,900
Vehicle	27,470	13,530	41,000
Farming	-	25,000	25,000
Miscellaneous	-	6,000	6,000
Subtotal	164,476	256,493	420,969
Income	-	58,000	58,000
Total	164,476 ^c	198,493 ^b	362,969

^a FY 1984/5.

^b Equivalent to \$362.50 per million gallons treated.

^c Equivalent to \$16,500 per square mile.

TABLE 4-3: Cost of Sewage Pump Stations (PS)^a

hp	Capacity mgd	GPM	PS Cost 1,000 dollars	Force Main Drain Inches	Force Main Cost Dollars/ft
1	0.10	70	25	4	20
2	0.20	140	27	6	24
5	0.50	350	30	8	30
7.5	0.75	525	35	10	35
10	1	700	45	12	45
20	2	1400	100	12	45
30	3	2100	126	16	55
40	4	2800	150	18	65
50	5	3500	172	24	75
100	10	7000	260	30	85

^a Lift of 20 feet

TREATMENT PLANT COSTS

TABLE 4-4: Treatment Plant Costs

Capacity MGD	WTP Capital Cost (thousands)	O & M Annual	Reclamation Plant Capital Cost	O & M Annual
1	3,000	164,000	1,800	114,000
2	4,500	274,000	2,700	192,000
3	6,000	350,000	3,600	245,000
4	8,000	438,000	4,800	307,000
6	12,000	492,000	7,200	344,000
8	15,000	584,000	9,000	409,000
10	19,000	694,000	11,400	486,000
12	23,000	788,000	13,800	552,000
15	28,000	986,000	16,800	690,000
20	38,000	1,314,000	22,800	920,000

The cost of wastewater treatment plants varies depending on the type of process, effluent quality required and the need for sludge handling and disposal facilities. Table 4-4 sets forth both capital and operation and maintenance costs for full wastewater treatment plants and reclamation plants designed to meet, as a minimum, secondary treatment standards. Reclaimed water reused for irrigation for parks, golf courses and other public areas will need to be treated to tertiary standards to meet State laws; thus requiring gravity or pressure filtration. The costs presented in Table 4-3 are, of necessity, somewhat general in nature with no specific biological treatment process indicated; full wastewater treatment plants are assumed to have both liquid and solid process trains while reclamation plants will be provided with liquid treatment facilities only. Organic sludges produced at reclamation plants will be returned to the wastewater conveyance system for treatment at downstream facilities. An approximate subdivision of costs for major treatment processes is delineated thus:

<u>Cost Center</u> <u>Treatment Process</u>	<u>Capital</u> <u>Costs</u>	<u>Operation and</u> <u>Maintenance</u>
Administration	2%	1%
Primary	20%	20%
Secondary	35%	40%
Solids Handling	40%	28%
Effluent Disposal	1%	10%
Site Works	2%	1%
	<u>100%</u>	<u>100%</u>

By way of comparison, recent historical costs for the City of Sierra Vista's sewage treatment operations (refer to Table 4-2) compute to \$362 per million gallons treated. This will drop by almost half to \$181 when flows reach plant capacity. For larger treatment plants unit costs of treatment drops to \$200 or below.

RECLAIMED WATER SYSTEMS

Reclaimed water systems consist of pumping stations and force mains necessary to convey reclaimed water from wastewater treatment plants to point of end use, such as parks, golf courses and highway medians. Table 4-5 sets forth costs of pipelines and pumping stations with capacities ranging from 0.5 to 10 mgd.

TABLE 4-5: Reclaimed Water System Costs*

Pipeline diameter, inches	Pipelines dollars/ft	Pump Station Capacity, mgd	Cost
8	21	1-2	168,000
10	25	2-3	229,000
12	29	3-5	297,000
16	40	5-6	382,000
18	50	6-10	467,000
24	60		

*head 200 feet

CHAPTER 5

UPGRADING THE COLLECTION SYSTEM

This chapter describes feasible alternative strategies to upgrade the existing collection system ("City System") to serve the presently incorporated area to ultimate development. Subsequent chapters will develop, evaluate, and describe conveyance and treatment alternatives for the larger study area.

CITY SYSTEM

The city system needs to be both upgraded and expanded as infilling, redevelopment and growth within the city center continues. Deficiencies in the existing piping network, discussed in Chapter 3, will need to be addressed either by supplementing those segments with parallel sewers or reducing the flow rate by diverting upstream flows. Deficiencies are mainly concentrated in the central interceptor system west of Coronado Drive, between Coronado Drive and the Equestrian center, and in Charleston Highway. If unit contributions of wastewater do not rise, as anticipated within the Central City area, augmentation of many interceptors presently scheduled for upgrading at year 2000 may be deferred.

One undesirable aspect of the existing system is that wastewater is conveyed from the metropolitan area through one interceptor in Charleston Drive. Alternative upgrading strategies therefore will include the study of a secondary interceptor system.

Principal alternatives to be considered include:

1. Upgrading the Central System by augmenting segments shown to be deficient and constructing new pipelines to areas yet to be serviced.
2. Intercepting flow from the central system trunk lines and transferring flow through a proposed Wilcox interceptor.

Subalternatives to be studied include analysis of specific subbasins to determine the most cost effective method of routing the flow to the principal drainage conduits.

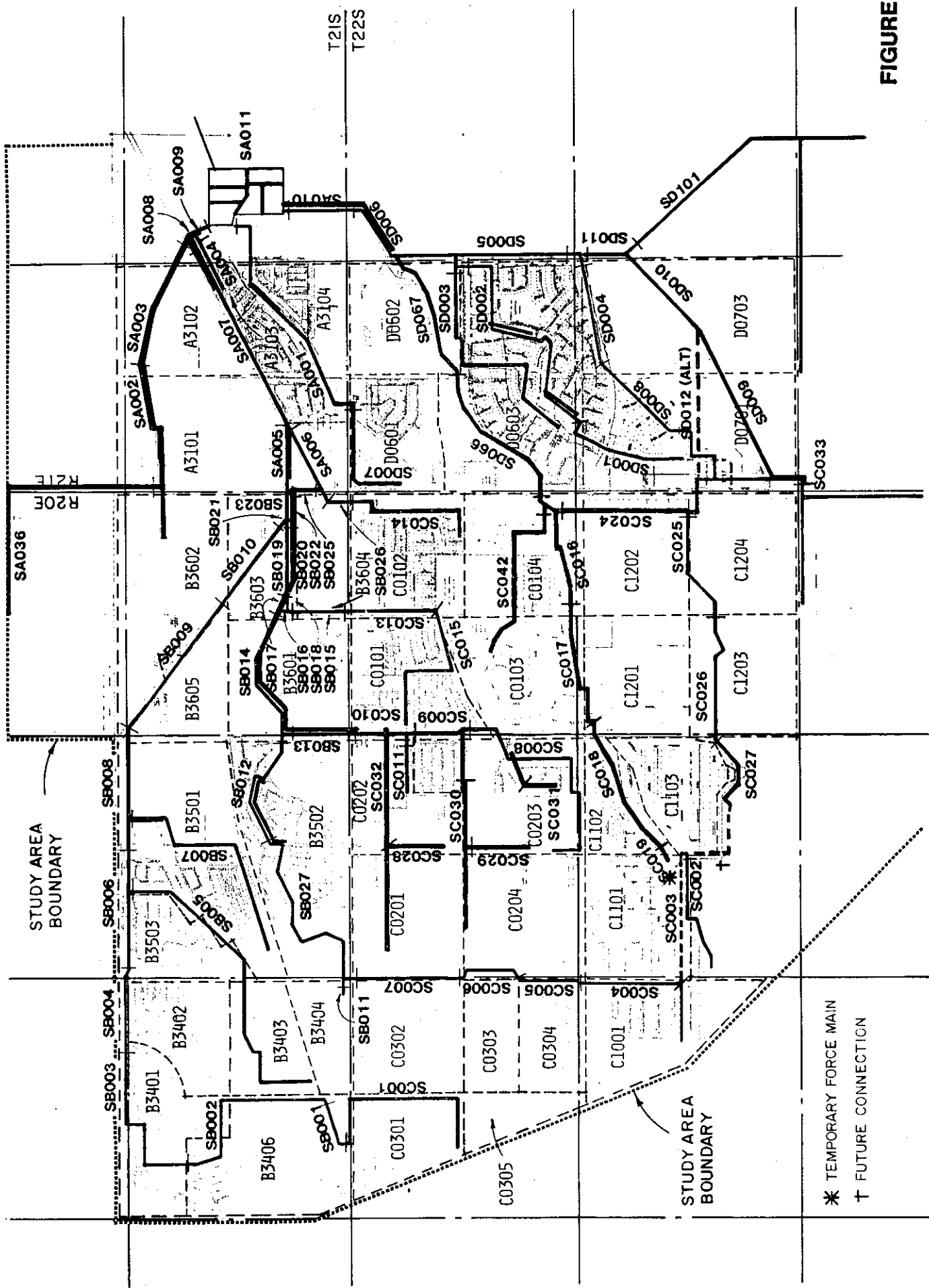


FIGURE 5-1

ALTERNATIVE 1 - CITY SYSTEM

1. Village Meadows: Intercept flow through the Wilcox Interceptor to the proposed Town and Country Interceptor or convey the flow across the natural drainage basin to existing trunk lines east and west of the Village Meadows Mobile Home estates.
2. The Summit: Convey flow through the 10-inch Tenneco sewer, (SD004,) or divert to a proposed sewer parallel to Highway 92 thence to the proposed Town and Country Interceptor.
3. West Central Interceptor between Seventh Street and Moorman: augment this section with a parallel pipeline or intercept flow in the Seventh Street trunk through the proposed Wilcox trunk to Moorman Ave.

ALTERNATIVE 1 - PARALLEL AUGMENTATION

Under Alternative 1, shown graphically in Figure 5-1, deficient pipeline segments in the present system will be augmented by constructing parallel sewers with sufficient capacity to cope with flows at saturation development in segments identified in Table 5-1; augmentation requirements are listed in Table 3-3 together with estimated construction costs.

In areas not yet developed new sewers will be provided and connected to the existing system at convenient points as briefly described in the following paragraphs.

1. Section C2 (presently owned by the State of Arizona,) will be served with two trunk lines discharging to SC009 and SC010; because this flow will add additional burden to SB014, further overloading will result.
2. Town and Country Estates, east of Seventh Street, will be provided with future sewer service by construction of an already designed interceptor, the alignment of which follows Coyote Wash. This interceptor will also provide service to Village Meadows area through trunk SC042 and the Sierra Vista Land Company's development at the Summit through trunk line SC024. Trunk line SC025 will, on an interim basis, enter SD004; however, it is anticipated that this pipeline will become overloaded in the near future as shown in Table 3-1. This is studied in detail in a later subsection.
3. Segments SB025 and SA006 will be relieved by extending the stub already constructed across Highway 92 into SA005, this will provide a permanent solution to the overloading problem in that area.

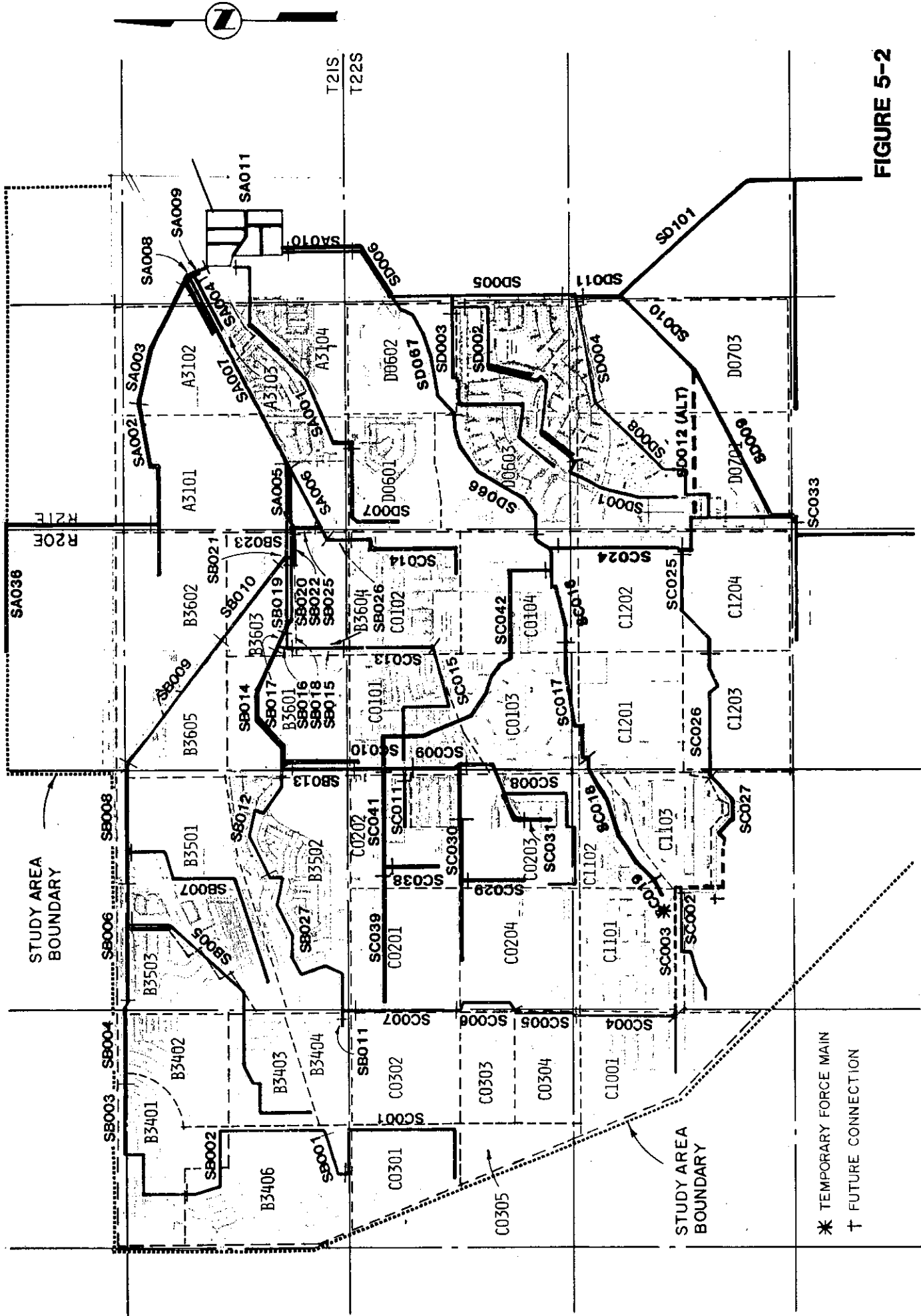


FIGURE 5-2

ALTERNATIVE 2 - CITY SYSTEM

4. If Ranchos Carmelo is provided with a collection system (SA036) and if state land in section 36 is developed (extension of SA002), sewer segment SA002, SA003, and SA009 will become overloaded requiring paralleling for augmentation. Because of the large lot size and the fact that Ranchos Carmelo is a recent subdivision it is unlikely that a collection system will be required until 2010 or beyond, however the state land could well be developed before 2010.

Table 5-1 sets forth a capital Improvement Program by phase and cost estimate for Alternative 1.

Table 5-1 Alternative 1, Capital Improvement Program

Sewer	Diameter (inches)	Length (feet)	Trench Depth (feet)	Unit Cost (Dollars per foot)	Amount
1985-1990					
SB014 *	15	3200	10	50.06	* 160,200
SB017 *	15	500	10	50.06	* 25,000
SC024	10	3200	10	39.42	126,100
SD066	15	3800	12	54.76	208,100
SD067	15	3200	12	54.76	175,200
Subtotal					\$640,600
1990-1995					
SC016	12	2500	12	47.00	117,500
SC017	10	3000	12	44.13	132,400
SC018	10	3600	10	39.42	141,900
SC029	8	1600	8	30.05	48,100
SC030	8	1600	10	34.01	54,400
Subtotal					\$494,300
1995-2000					
SA001 *	8	600	10	34.01	* 20,400
SA002 *	10	2700	10	39.42	* 106,400
SA005 *	10	1700	10	39.42	* 67,000
SA006 *	Bypassed by SA005 Augmentation				
SA007 *	10	1000	10	39.42	* 39,400
SA009 *	15	200	10	-	* 15,000
SB005 *	8	700	10	34.01	* 23,800
SB012 *	10	1900	10	39.42	* 76,700
SB013 *	12	1600	10	42.30	* 67,700
SB020 *	8	2200	10	34.01	* 74,800
SB022 *	8	500	10	34.01	* 17,000
SB025 *	Bypassed by SA005 Augmentation				
SB027 *	10	600	10	39.42	* 23,700
SC028	8	1500	8	30.05	45,100
SC031	8	1500	8	30.05	45,100
SC032	8	5200	10	34.01	176,900
SC042	8	3200	10	34.01	108,800
SD002 *	8	4000	10	34.01	* 136,000
Subtotal					\$1,043,800
2010-SAT					
SA003 *	15	3000	10	50.06	* 150,200
SA010 *	18	1300	10	59.01	* 76,700
SA036	8	7400	10	34.01	251,700
SC013	8	2500	10	34.01	85,000
SD006 *	21	3400	10	78.42	* 266,600
Subtotal					\$830,200

* Denotes augmentation of existing sewer.

ALTERNATIVE 2 - FLOW INTERCEPTION

Under Alternative 2, depicted in Figure 5-2, flow to the central interceptor would be diverted to a new interceptor thereby relieving the presently deficient segments and precluding the necessity for augmenting so many of these segments by parallel pipelines in the future. Central Interceptor segments that will still require paralleling, however, include SB004 and SB017 by year 1990; SA005, SA006, and SB025 by year 2000, and SA007, SA009, SB013, and SB022 beyond year 2010 as listed in Table 5-2.

Table 5-2 Alternative 2, Capital Improvement Program

Sewer	Diameter (inches)	Length (feet)	Trench Depth (feet)	Unit Cost (Dollars per foot)	Amount
1985-1990					
SB014 *	12	3200	10	42.30	* 135,400
SB017 *	12	500	10	42.30	* 21,200
SC024	10	3200	10	39.42	126,100
SD066	18	3800	12	64.40	244,700
SD067	21	3200	12	83.81	268,200
Subtotal					\$795,600
1990-1995					
SC016	12	2500	12	47.00	117,500
SC017	10	3000	12	44.13	132,400
SC018	10	3600	10	39.42	141,900
SC029	8	1600	8	30.05	48,100
SC030	8	1600	10	34.01	54,400
Subtotal					\$494,300
1995-2000					
SA001 *	8	600	10	34.01	* 20,400
SA002 *	10	2700	10	39.42	* 106,400
SA005 *	8	1700	10	34.01	* 57,800
SA006 *	Bypassed by SA005 Augmentation				
SB005 *	8	700	10	34.01	* 23,800
SB025 *	Bypassed by SA005 Augmentation				
SC031	8	1500	8	30.05	45,100
SC038	8	1500	8	30.05	45,100
SC039	10	3200	10	39.42	126,100
SC041	12	2100	10	42.30	88,800
SC042	15	7800	12	54.76	427,100
SD002 *	8	4000	10	34.01	* 136,000
Subtotal					\$1,076,000
2010-SAT					
SA003 *	15	3000	10	50.06	* 150,200
SA007 *	8	1000	10	34.01	* 34,000
SA009 *	15	200	10	---	* 13,000
SA010 *	21	1300	10	78.42	* 101,900
SA036	8	7400	10	34.01	251,700
SB013 *	8	1600	10	34.01	* 54,400
SB022 *	8	500	10	34.01	* 17,000
SD006 *	18	3400	10	59.01	* 200,600
Subtotal					\$822,800

* Denotes augmentation of existing sewer.

Because flow would be initially intercepted at South Seventh Street in sewer segment SC007 and transferred east to a new interceptor in the right-of-way of the proposed Wilcox Street alignment the pipeline will be designated as the Wilcox Interceptor. At Moorman Avenue sewer segment SC010 is intercepted and additional flow removed from the central system.

As a subalternative the Wilcox interceptor could continue with the eastward alignment down to Highway 92 turn north to Fry Boulevard then east again down Highway 90 to intercept the Tenneco interceptor near Treatment Plant 1. Advantages of this alignment include the fact that, 1) both SC013, SC014, and SD007 could be intercepted and flow transferred to the Wilcox interceptor, 2) a second interceptor system would be established, and 3) more of the Central Interceptor segments listed above would not need to be paralleled.

A second, and preferred, alignment of the Wilcox interceptor continues beyond Moorman to Camino Real passing through Village Meadows and meeting Town and Country interceptor at Coyote Wash just west of Highway 92 as illustrated in Figure 5-2. This effectively transfers flow from the central drainage basin to Coyote Wash drainage basin. Other features of Alternative 2 include:

1. Trunk sewers on the south half of State land in Section C2, convey flow to SC009
2. Town and Country Estates east of Seventh Street is served by the previously designed interceptor in Coyote Wash as described in Alternative 1.
3. Wastewater flows generated in the Summit subdivision would be conveyed east to Highway 92 for interim connection to SD004 and ultimate connection to the Town and Country interceptor.

The Detailed Capital Improvement Program by phase and cost estimate is set forth in Table 5-2.

EVALUATION OF PRINCIPAL ALTERNATIVES

Both alternative upgrading proposals provide a long-term strategy for correcting deficiencies and coping with increased growth within the presently incorporated area. Principal elements, common to both alternatives include interceptors serving the Summit, Town and Country east of Seventh Street, Village Meadows, portions of State land in Section 2, and improvements to the industrial interceptor in Section A31.

Essential differences between the proposals center around methods of correcting deficiencies in the central interceptor system. While under Alternative 1 flow augmentation in the central system would be carried out by paralleling specific segments, Alternative 2 would redirect flow at South Seventh Street and Moorman Avenue through the Wilcox Interceptor.

Construction phasing envisages correction of imminent deficiencies in the central system east of Coronado Drive (SB014, SB017) and construction of the lower portion of the Town and Country interceptor (SD066, SD067) during the 1985-1990 period. Under Alternate 2 construction of the entire length of Wilcox interceptor would have deferred augmentation of the central system until 2010, however, this immediate construction undertaking would render this alternative financially uneconomic. With construction of SC024, SD066 and SD067 the Summit is not precluded from connecting into this system.

During the second phase, 1990-1995, the remainder of the Town and Country interceptor would be built together with elements of the system in the south half of Section C2. In the third phase more central system elements in both alternatives would be augmented along with the complete trunk system for Section C2. Beyond the year 2010 the industrial sewer in Section A31, the lower portions of the Charleston line and the central system through the equation center would be augmented. Ranchos Carmelo would also be served at this time.

The principal advantage of Alternative 1 is that new sewers would be constructed in areas where right-of-way could be obtained and where much of the alignment would be unimproved. The Wilcox interceptor, on the other hand, while passing through relatively undeveloped land in Section 2, would need to cross the Village Meadows subdivision on Camino Real. This would contribute to noise, dust and air pollution, inconvenience to residents, cross existing utilities and require cutting and patching improved residential neighborhood streets.

Advantages of Alternative 2, however, include the fact that 1) a new interceptor system would be established on the south side of the incorporated area, 2) flow would be diverted from the central system, to the Town and Country interceptor some of which will be constructed by a developer in subbasin D0602, 3) the overall reliability of the conveyance system would be improved, and 4) if the Wilcox Interceptor were connected into the Town and Country Interceptor more unsewered/undeveloped land would be tributary to this major construction effort.

ECONOMIC COMPARISON

Table 5-3 summarizes initial and present worth costs by construction phase for Alternatives 1 and 2. Although Alternative 1 has lower initial and present worth costs by 6 and 10 percent respectively both alternatives are considered economically viable. The principal advantage of Alternative 1, however is that its implementation may be in stages, and, many sewers slated for augmentation may be deferred indefinitely if unit domestic and commercial contribution factors remain at or near their present levels.

Table 5-3 Comparison of Alternatives

Construction Period	Alternative 1		Alternative 2	
	Cost	Present Worth ^a	Cost	Present Worth ^a
1985 - 1990	640,600	399,700	795,600	494,000
1990 - 1995	494,300	190,600	494,300	190,600
1995 - 2000	1,043,800	249,900	1,076,600	257,700
2010 - SAT	830,200	7,100	822,800	7,000
	\$3,008,900	\$847,300	\$3,189,300	\$949,300

^aDiscount rate 10 percent.

If Section C2 were to be developed earlier than the second and third construction phases, then the entire WI would need to be constructed during 1985 - 1990; this additional financial burden would place Alternative 2 costs considerably above those of Alternative 1 and favor Alternative 1 as the most cost effective proposal.

UNIT COST COMPARISON BETWEEN SUBBASINS

Although construction costs and phasing are important they are not indicative of true cost effectiveness since an equitable distribution of financial burden must be made between the users, who must ultimately pay for the sewer service. While one alternative may be attractive to customers in one area or subbasin the costs may be excessive to another group. Accordingly, both alternatives were subjected to a careful analysis to assess the impact of costs on selected groups of customers.

IMPACT OF ALTERNATIVES 1 AND 2 ON SELECTED SUBBASINS

Selection of Alternatives 1 or 2 will affect the cost of sewerage many subbasins; the following paragraphs delineate these costs and attempt to find an equitable combination of improvement costs for each subbasin.

Section C2 Unit Costs

Table 5-4 sets forth costs that would accrue to developers/owners of Section C2 (subbasins CO201, 202, 203 and 204) for Alternatives 1 and 2. The cost columns delineate actual construction costs based on tables in Chapter 4; the unsewered tributary areas are reproduced from the SEWSYST program in the appendix and represent developed land acreage at saturation conditions minus land acreage presently sewerage that is tributary to the impact point on the sewer segment nominated; the percent contribution is the ratio of Section 2 net unsewered area divided by the area tributary to each sewer segment; finally, the cost assigned to Section 2 land area is computed by multiplying the contribution factor by the sewer segment cost. Costs for construction of the total sewer system appear in the second column while the totals at the bottom of column 5 are for developers contribution to the entire sewer system and contribution to the offsite sewer system.

Between Alternatives 1A and 2 the latter has the lowest contribution cost of \$572,000 for system sewer improvements needed to service Section 2 of which \$291,000 is for offsite sewers. Alternative 1A, however, has the lowest cost of \$212,000 for offsite sewers. Reference to the summary in the right hand bottom corner of Table 5-4 shows the unit costs per unsewered acre. Overall costs marginally favor Alternative 2, but offsite costs favor Alternative 1. Because Alternative 1 augmentations are discretionary (depending on future flow rates) assigned costs may be less than anticipated and the unit costs proportionally lower. Furthermore, the Alternative 1A unit cost is \$2105 per net unsewered acre, in comparison with \$2072 for Alternative 2, a difference of only 1.5 percent.

Offsite sewer costs, a more meaningful cost effectiveness gauge between subbasins ranges from \$768 for Alternative 1 to \$1054 per acre for Alternative 2. Flow diversion at Seventh Street will be discussed later. Based on these unit costs Alternative 1 is the best apparent alternative.

Table 5-4 Impact of Principal Alternatives on Cost of Sewering Section 2^a

Alternative 1A					Alternative 2																
Sewer	Cost	Unsewered Tributary Area	Percent Contribution ^b	Amount ^c	Sewer	Cost	Unsewered Tributary Area	Percent Contribution	Amount												
SA005 ^f	67,000	840	33.0	22,000	SC038	45,000	—	100.0	45,000												
SA007 ^f	39,000	1407	20.0	8,000	SC037	—	147	—	—												
SA009 ^f	15,000	2245	12.0	2,000	SC029	48,000	102	100.0	48,000												
SB013 ^f	68,000	363	8.0	52,000	SC030	54,000	118	100.0	54,000												
SB014 ^f	160,000	732	38.0	60,000	SC031	45,000	16	100.0	45,000												
SB017 ^f	25,000	659	42.0	10,000	SC039	126,000	226 ^x	35.0	44,000												
SB020 ^f	75,000	442	62.0	47,000	SC041	89,000	293 ^y	50.0	45,000												
SB022 ^f	17,000	419	66.0	11,000	SC042 ^f	427,000	566	49.0	208,000												
SC028	45,000	52	100.0	45,000	SD066 ^{f,p}	245,000	1650 ^z	17.0	41,000												
SC029	48,000	102	100.0	48,000	SD067 ^{f,q}	268,000	1765 ^z	16.0	42,000												
SC030	54,000	118	100.0	54,000																	
SC032	177,000	142	100.0	177,000																	
SC031	45,000	16	100.0	45,000																	
TOTAL	835,000			581,000^b		1,347,000			572,000^k												
OFFSITE	466,000^f			212,000^{f,j}		940,000^f			291,000^{f,l}												
Alternative 1 B Flow Diversion at Seventh Street					^a 276 acres presently unsewered (SC030, SC031, SC032) ^b Acraage in System 2, (280 acres), divided by area tributary to each sewer. ^c Percent contribution multiplied by the sewer cost rounded out to nearest 1000 dollars. ^e \$1782 per unsewered acre. ^f Offsite sewers. ^g \$765 per acre for offsite sewers. ^h \$2105 per acre. ⁱ \$768 per acre offsite sewers. ^k \$2072 per acre. ^l \$1054 per acre offsite sewers. ^p 4100 feet of 15 inch sewer. ^q 3200 feet of 15 inch sewer. ^r Equivalent to SC039 and SC041; cost \$215,000. ^s 900 feet of 10 inch sewer. ^t 1400 feet of 12 inch sewer ^x 79 acres tributary on site; 147 acres offsite. ^y 146 acres tributary onsite; 147 acres offsite. ^z With Summit connected.																
SA005 ^f	67,000	840	33.0	22,000	Summary - Costs per Unsewered Acre (Dollars) <table border="1"> <thead> <tr> <th></th> <th>Altern. 1A</th> <th>Altern. 1B</th> <th>Altern. 2</th> </tr> </thead> <tbody> <tr> <td>Onsite</td> <td>2105</td> <td>1752</td> <td>2072</td> </tr> <tr> <td>Offsite</td> <td>768</td> <td>765</td> <td>1054</td> </tr> </tbody> </table>						Altern. 1A	Altern. 1B	Altern. 2	Onsite	2105	1752	2072	Offsite	768	765	1054
	Altern. 1A	Altern. 1B	Altern. 2																		
Onsite	2105	1752	2072																		
Offsite	768	765	1054																		
SA007 ^f	39,000	1407	20.0	8,000																	
SA009 ^f	15,000	2245	12.0	2,000																	
SB013 ^{f,t}	59,000	510	54.0	32,000																	
SB014 ^f	160,000	732	38.0	60,000																	
SB017 ^f	25,000	659	42.0	10,000																	
SB020 ^f	75,000	442	62.0	47,000																	
SB022 ^f	17,000	419	66.0	11,000																	
SC010 ^{f,s}	36,000	510	52.0	19,000																	
SC028	45,000	52	100.0	45,000																	
SC029	48,000	102	100.0	48,000																	
SC030	54,000	118	100.0	54,000																	
SC031	45,000	16	100.0	45,000																	
SC032 ^r	215,000	293 ^d	50.0	89,000																	
TOTAL	900,000			492,000^e																	
OFFSITE	493,000			211,000^{e,g}																	

Town and Country Estates

Table 5-5 displays the analysis for Town and Country Estates, the customers in which, would benefit from the participation of other subbasins in the cost of the TC. This is reflected in the Town and Country share of \$228,000 for offsite sewers under Alternative 2, (\$820 per net unsewered acre,) but \$240,000 or \$863 per unsewered acre for Alternative 1. Although Alternative 2 is 5 percent less expensive for Town and Country Estates, the cost per acre for either Alternative is considerably less for Town and Country than that for the developer or future customers in Section 2 (\$1054). Accordingly, an equitable decision would favor Alternative 1.

Table 5-5 Impact of Principal Alternatives on Town and Country Estates Sewer Costs^a

Alternative 1 - Central Upgrade ^g					Alternative 2 - Wilcox Interceptor				
Sewer	Cost	Unsewered Tributary Area	Percent Contribution	Amount	Sewer	Cost	Unsewered Tributary Area	Percent Contribution	Amount
SC016	118,000 ^f	542	51.0	61,000	SC016	118,000 ^f	542	51.0	61,000
SC017	132,000 ^f	439	63.0	84,000	SC017	132,000 ^f	439	63.0	84,000
SC018	142,000	278	100.0	122,000	SC018	142,000	278	100.0	122,000
SC019	50,000	128	100.0	50,000	SC019	50,000	128	100.0	50,000
SD066	208,000 ^f	1070	26.0	54,000	SD066	245,000 ^f	1650	17.0	41,000
SD067	175,000 ^f	1185	24.0	41,000	SD067	268,000 ^f	1765	16.2	42,000
TOTAL OFFSITE	825,000			412,000^b 240,000^c		955,000			400,000^d 228,000^e

^aTown and Country -- 278 acres nett unsewered area.

^b\$1482 per net unsewered acre.

^c\$863 per net unsewered acre -- offsite sewer cost.

^d\$1439 per nett unsewered acre.

^e\$820 per acre offsite sewer cost.

^fOffsite sewers.

^gWith the Summit connected.

Area West of Seventh Street

The impact on future customers on 147 acres west of Seventh Street and south of Fry Boulevard was also investigated. Under Alternative 1A sewage would be conveyed north through the Seventh Street trunk to the Central Interceptor; improvements needed as flow rates increase include sewer segments SB012, SB027, SB014, SB017, SB020, SB022, SA005, SA007 and SA009.

Alternative 2 envisages intercepting and transferring flow from Seventh Street trunk to the WI. Customers within the area of interest would therefore be required to participate in the cost of the WI and TCI which includes sewer segments SC039,

SC041, SC042, SD066 and SD067. Table 5-6 summarizes results and shows that costs assigned to the 147 acres of interest range from \$135,000 for Alternative 1A to \$282,000 for Alternative 2; unit costs compute to \$918 and \$1918 respectively. Customers west of Seventh Street would therefore favor Alternative 1A.

Table 5-6 Impact of Principal Alternatives on Unsewered Area West of Seventh Street^a

Alternative 1A -- Central Upgrade					Alternative 2 -- Wilcox Interceptor				
Sewer	Cost	Unsewered Tributary Area	Percent Contribution	Amount	Sewer	Cost	Unsewered Tributary Area	Percent Contribution	Amount
SA005	67,000	840	18.0	12,000	SC039	126,000	226	65.0	82,000
SA007	39,000	1407	10.0	4,000	SC041	89,000	293	50.0	45,000
SA009	15,000	2245	7.0	1,000	SC042	427,000	556	26.0	111,000
SB012	78,000	322	46.0	3,600	SD066	245,000	1650	9.0	22,000
SB014	160,000	732	20.0	32,000	SD067	268,000	1765	8.0	22,000
SB017	25,000	659	22.0	6,000					
SB020	75,000	442	33.0	25,000					
SB022	17,000	419	35.0	6,000					
SB027	24,000	276	53.0	13,000					
135,000 ^b					282,000 ^c				
Alternative 1B -- Wilcox Trunk									
SA005	67,000	840	18.0	12,000					
SA007	39,000	1407	10.0	4,000					
SA009	15,000	2245	7.0	1,000					
SB013	59,000	510	29.0	17,000					
SB014	160,000	732	20.0	32,000					
SB017	25,000	659	22.0	6,000					
SB020	75,000	442	33.0	25,000					
SB022	17,000	419	35.0	6,000					
SC010	36,000	510	29.0	10,000					
SC039	126,000	226	65.0	82,000					
SC041	89,000	293	50.0	45,000					
708,000					240,000 ^d				

^a147 unsewered acres for flow diversion.

^b\$918 per net unsewered acre.

^c\$1918 per net unsewered acre.

^d\$1633 per net unsewered acre.

If Alternative 1A were selected, flow in the Seventh Street trunk, however, could still be bypassed through the Wilcox trunk to Moorman Avenue, thence north in SC013 to the Central Interceptor at SB014; this would preclude the necessity to augment SB027 and SB012. This option, examined in Table 5-6, (under Alternative 1B - Wilcox Diversion) demonstrates that the unit costs to West Seventh Street area lies between the previously discussed Alternatives and computes to \$1633 per unsewered acre; this still remains nearly 78 percent more than Alternative 1A - the Central Interceptor upgrade. The reason for this is that while SB027 and SB012 would not be constructed, residents would be required to participate in the Wilcox trunk and SB013. Arguments for their participation are that 1) the cost to the community as a whole would be less since SB027 and SB012 would not be constructed, and 2) future customers in the area north of Fry and West of Moorman would not have to supply funds for SB027 or SB012.

Because the area around the community of Fry and Bella Vista Estates would be relieved of the responsibility for augmenting the west part of the Central Interceptor a good reason exists for them to assist with west Seventh area's burden of cost unsewered acre. This combined area, (west of Seventh, Fry and Bella Vista area,) would then contribute to the West Seventh's portion of the WI and SC013. This unit cost would then

reduce from \$1633 to \$751 per unsewered acre corresponding to an increase from 147 to 322 acres as shown in Table 5-7. This is an equitable unit cost, below that for no flow diversion and similar to offsite sewer costs experienced by other subbasins.

Table 5-7 West Seventh Reduction with Fry Participating in Wilcox Trunk

Sever	Contribution as Shown in Table 5-6	W. Seventh Contribution with Fry and Bella Vista Participating in Wilcox Trunk ^a
SA005	12,000	5,000
SA007	4,000	2,000
SA009	1,000	500
SB013	17,000	8,000
SB014	32,000	15,000
SB017	6,000	3,000
SB020	25,000	11,000
SB022	6,000	3,000
SC010	10,000	5,000
SC039	82,000	37,000
SC041	45,000	21,000
	240,000 ^c	110,500 ^b

^aRatio in proportion to unsewered area 147/322 or 0.4565.
^b\$751 per unsewered acre.
^c1633 per unsewered acre.

Fry/Bella Vista Estates

Table 5-8 assesses the impact of the various subalternatives previously discussed on the Fry/Bella Vista area; recalling that a unit cost of \$751 was computed, in the previous subsection, for this area of interest, using Alternative 1B, Table 5-8 demonstrates that this represents the lowest cost for the Fry/Bella Vista area when compared with costs for Alternative 1A - central system upgrade and Alternative 2 - Wilcox interceptor. Unit costs for these alternatives are \$897 and \$754 respectively. Reasons for the higher costs in Alternative 1B are that SB027 and SB012 would need to be constructed; in Alternative 2 these segments would not be constructed also, but, the 147 acres west of Seventh would not participate in the Central interceptor improvements.

Table 5-8 Impact of Flow Diversion at Seventh Street on Unsewered Area North of Fry, West of Moorman^a

No Flow Diversion — Alternate 1A					Flow Diversion at Seventh Street in ^d Wilcox Interceptor — Alternate 2					
Sewer	Cost	Unsewered Tributary Area	Percent Contribution	Amount	Sewer	Cost	Unsewered Tributary Area	Percent Contribution	Amount	
SA005	76,000	840	38	26,000	SA005	58,000	520	33	20,000	
SA007	39,000	1407	23	9,000	SA007	34,000	826	21	7,000	
SB020	75,000	442	73	55,000						
SB022	17,000	419	77	13,000	SB022	17,000	-	21	4,000	
SB027	24,000	276	100	24,000	SB027	No Augmentation Necessary				
SB012	78,000	322	100	78,000	SB012	No Augmentation Necessary				
SB014	160,000	732	44	70,000	SB014	135,400	236	74	100,000	
SB017	25,000	659	49	12,000	SB017	21,000	208	84	18,000	
SA009	15,000	2245	14	2,000	SA009	13,000	1666	10	1,000	
				289,000 ^b					278,400	132,000 ^c
				509,100					278,400	132,000 ^c

^aUnsewered Area 322 acres, tributary to Central Interceptor at Moorman.

^b\$897 per unsewered acre.

^c\$754 per unsewered acre.

^dUnsewered area = 322 - 147 = 175 acres.

Re-examination of Costs to Section 2

If Alternative 1B were selected and flow diverted into the Wilcox trunk from Seventh Street trunk the unit cost to Section 2 land would be \$1752 per net unsewered acre as demonstrated in the lower half of Table 5-4; however, the cost of off-site sewers, (a more realistic relative comparison between subbasins), would drop

to \$765 per net unsewered acre, close to the cost of the other subbasins discussed.

VILLAGE MEADOWS

Village Meadows is at present unsewered, and, the principal conveyance system considered in Alternatives 1 and 2 consists of the Wilcox Interceptor and Camino Real Trunk respectively; both are essentially the same pipeline and follow the alignment to the Town and Country Interceptor in Coyote Wash.

A second subalternative would utilize the future Village Meadows collection system to convey flow to trunk lines (SC013 and SC014) both east and west of the Village Meadows Trailer Park. Since no trunks or interceptors need be constructed under this concept -- since sewage is not transferred to the Coyote Wash drainage basin -- this represents the least costly option for Village Meadows. Flow added to trunk lines SC013 and SC014 amounts to 0.05 mgd each and will require augmenting SC013 at a cost of \$119,000 (3500 feet of 8 inch sewer) or \$1155 per net unsewered acre for offsite sewers. The alternative is to construct SC042 at a cost of \$175,000 (5200 feet of 8 inch sewer) and unit cost \$1509 per unsewered acre. The former is therefore selected as the most cost effective solution.

SUMMIT CONVEYANCE SYSTEM

The Summit, presently under development, lies immediately south of Coyote Wash drainage basin. Of a total area of 410 acres, 326 acres will be provided with a sewerage system. Figures 5-1 and 5-2 show segments SC002, SC027, SC026 as on-site sewers and SC025 as an off-site pipeline crossing Highway 92 to a 10-inch diameter sewer in Avenida Cochise.

Previous studies have determined that the most cost effective conveyance alignment for the Summit remains with constructing SD012 and SD010, 10- and 15-inch diameter pipelines and extending the Pueblo del Sol Interceptor, (2800 feet of 24-inch diameter sewer), from its present terminus at Avenida del Sol and Camino Norte to Snyder Boulevard. Differences between the analysis in this document and previous studies centers around the quantities of sewage, pipe sizes, necessity to augment existing lines, construction phasing, and participating customers.

Printouts of SEWSYST pipe flows indicate that the Pueblo del Sol Interceptor will need to be augmented with 3000 feet of 21 inch average diameter pipeline from Camino del Norte to Highway 90 to convey flow from all points tributary to this line south to

Nicksville. Between Camino del Norte and Snyder Boulevard the PDS interceptor will require a 30 inch diameter pipeline.

Planned development along Coyote Wash, east of Highway 92, may precipitate construction of portion of the Town and Country Interceptor, and this may assist in reducing initial construction costs to the Summit. If SC025 were connected to SC024 and sewage transferred into the Town and Country Interceptor, more tributary unsewered acres would participate in construction of SC024, SC016, SD066, and SD067. Table 5-9 compares these options and demonstrates that 1) Alternative 1 is nearly \$273,000 less expensive in terms of initial construction cost (if all elements are built at this time), 2) Summit cost contribution is \$4,000 less for Alternative 1, and 3) the Coyote Wash alignment has the lowest unit cost of \$831 per net unsewered acre similar to that for other subbasins. The contribution costs, however are so close that no firm conclusion may be reached in this part of the analysis.

Table 5-9 Summit Alternatives Cost Analysis^a

Coyote Wash Alignment					Tenneco Sever Augmentation				
Sewer	Cost	Unsewered Tributary Area	Percent Contribution	Amount	Sewer	Cost	Unsewered Tributary Area	Percent Contribution	Amount
SC026 ^b	95,000	326	100.0 ^b	---	SC026 ^b	95,000	326	100.0 ^b	---
SC025	93,000 ^c	454	72.0	67,000	SC025 ^k	122,000	454	72.0	88,000
SC024	126,000 ^d	518	63.0	79,000	SD012 ^h	59,000	---	100.0 ^m	59,000
SC016	34,000 ^e	1060	31.0	10,000	SD010 ^j	191,000	---	33.0 ^m	103,000
SD066	208,000 ^f	1070	30.0	63,000	SD005 ^g	396,000	8961	5.0	16,000
SD067	175,000 ^g	1185	28.0	48,000	SD006 ^t	266,000	9530 ^u	4.0	9,000
SD006 ^r	125,000	9350 ^u	4.0	4,000	SA010 ^s				
SA010 ^s									
856,000					271,000 ⁿ				
					1,129,000				
					275,000 ^p				

^aSummit tributary area; 326 nett unsewered acres.

^bSewer common to both alternatives; 2800 feet of 8 inch diameter.

^c2200 feet of 12-inch diameter sewer, (10-inch would be satisfactory.)

^d3200 feet of 10-inch diameter sewer.

^e800 feet of 12-inch diameter sewer.

^f3800 feet of 15-inch diameter sewer.

^g3200 feet of 15-inch diameter sewer.

^h1500 feet of 10-inch diameter sewer.

^j3500 feet of 15-inch diameter sewer.

^k1900 feet of 12-inch diameter sewer.

^mFrom city memorandum.

ⁿ\$831 per nett unsewered acre, (off site sewers.)

^p\$843 per nett unsewered acre, (off site sewers.)

^q3000 feet of 30 inch sewer.

^r1600 feet of 21 inch sewer.

^sThis sewer will not be augmented in recommended plan.

^t3400 feet of 21 inch sewer.

^uExcludes Tenneco tributary area.

While interim connection of SC025 to SD008 is satisfactory to provide initial sewer service to the Summit, permanent conveyance facilities envisaged under the Tenneco augmentation option will require the developer to underwrite all initial construction costs. In contrast, part of the Coyote Wash alignment may well be constructed by other developers working within the area tributary to segments SD066 and SD067.

If SC024 is not connected to SC025 the impact on other subbasins is illustrated in Tables 5-10 and 5-11. With Summit participation the cost to Town and Country customers will drop from \$1021 to \$835 per net unsewered acre for offsite sewers. While costs to properties parallel to Highway 92 will drop from \$2281 to \$609 per net unsewered acre for total financial contribution and from \$578 to \$359 for offsite sewers. Because of the large variation; in cost and, recalling that the Summit will pay \$831 for offsite sewers if Coyote Wash alignment is selected Cheyne Owen recommends that the City consider participation of the Highway 92 users in more of the Summit costs similar to the arrangement discussed for the areas west of Seventh Street.

Table 5-10 Impact of Summit Alternatives on Town and Country Estates

With Summit Connected to TCI ^a					Without Summit Connected to TCI ^a					
Sewer	Cost	Unsewered Tributary Area	Percent Contribution	Amount	Sewer	Cost	Unsewered Tributary Area	Percent Contribution	Amount	
SC016 ^d	105,000	542	51.0	54,000	SC016 ^g	102,000	542	51.0	53,000	
SC017	132,000	439	64.0	84,000	SC017	132,000	439	64.0	84,000	
SC018	142,000	279	100.0	142,000	SC018	142,000	279	100.0	142,000	
SC019	50,000	128	100.0	50,000	SC019	50,000	128	100.0	50,000	
SD066 ^e	208,000	1070	26.0	54,000	SD066 ^h	168,000	552	50.0	85,000	
SD067 ^f	175,000	1185	24.0	41,000	SD067 ^j	150,000	667	42.0	63,000	
				812,000					425,000 ^b	744,000
				233,000					285,000	477,000 ^c

^aTown and Country Interceptor; 279 net unsewered acres in TC subdivision.

^b\$1523 per net unsewered acre; \$835 per acre for offsite sewers.

^c\$1709 per net unsewered acre; \$1021 per acre for offsite sewers.

^d1700 feet of 10 inch sewer and 900 feet of 12 inch sewer.

^e3800 feet of 15 inch sewer.

^f3200 feet of 15 inch sewer.

^g2600 feet of 10 inch sewer.

^h3800 feet of 10 inch sewer.

^j3200 feet of 12 inch sewer.

Because of these factors and the impact of cost on customers tributary to SC024 and Town and Country Estates it is recommended that further consideration be given to the Coyote Wash alignment.

Table 5-11 Impact of Summit Alternatives on Areas Tributary to SC024, (64 acres.)^a

With Summit Connected to TCI					Without Summit Connected to TCI						
Sewer	Cost	Unsewered Tributary Area	Percent Contribution	Amount	Sewer	Cost	Unsewered Tributary Area	Percent Contribution	Amount		
SC024 ^c	126,000	518	12.0	16,000	SC024	109,000 ^d	64	100.0	109,000		
SC016 ^c	34,000	1060	6.0	2,000 ^j	SC016	35,000 ^e	542	12.0	4,000 ^j		
SD066 ^c	208,000	1070	6.0	12,000 ^j	SC066	168,000 ^f	552	12.0	19,000 ^j		
SC067 ^c	175,000	1198	5.3	9,000 ^j	SC067	150,000 ^g	667	10.0	14,000 ^j		
				543,000					39,000 ^b 23,000 ^j	462,000	146,000 ^h 37,000 ^j

^aArea parallel to Highway 92; 64 acres.

^b\$609 per nett unsewered acre.

^cRefer to Table 5-9 footnotes for sewer characteristics.

^d3200 feet of 8-inch diameter sewer.

^e900 feet of 10-inch diameter sewer.

^f3800 feet of 10-inch diameter sewer.

^g3200 feet of 12-inch diameter sewer.

^h\$2281 pre nett unsewered acre.

^jOffsite sewer costs; with Summit \$359 per acre; without Summit \$578 per acre.

Best Apparent Alternative

The best apparent long range improvement plan incorporates 1) augmentation of the central interceptor system to correct the deficiencies 2) diversion of west Seventh Street trunk to the Wilcox and Moorman Avenue trunks, 3) collection and transfer of Village Meadows tributary sewage to trunklines SC013 and SC014, and 4) correction of deficiencies in pipeline segments SA001, SA002, SA003, SA009, SD001 and SD002. Cheyne Owen recommends examining transfer of Summit flows into the Town and Country interceptor if negotiations between Sierra Vista Land Company and Tenneco have not been finalized. If state land in Section C2 is not developed within the next five years and the Wilcox trunk unconstructed sewer segments SB027 and SB012 will need to be augmented with parallel sewers. A more complete account of the recommended plan together with costs estimate and capital improvement plan may be found in Chapter 8.

CHAPTER 6

STUDY AREA CONVEYANCE AND TREATMENT STRATEGIES

In this section characteristics of the study area, future development trends, potential treatment sites, feasible interceptor alignments, tributary flow rates and pipe sizes are identified and discussed. Wastewater management strategies, discussed in the subsequent chapter, will be developed from conclusions reached on overall proportions and locations of facilities developed in this chapter.

In developing treatment and conveyance alternatives two broad goals must be attained: the first is the short term goal of providing conveyance and treatment facilities at reasonable cost within the 25 year planning period while the second goal is to insure compatibility of any chosen alternative with longer term development trends to the point of population saturation.

Before embarking upon a detailed discussion of conveyance and treatment requirements, development trends and assumptions employed in computing population estimates must be reviewed, since these will chart the course of the initial conveyance system configuration upon which subsequent extensions must be based.

DEVELOPMENT TRENDS

Figure 6-1 depicts development trends up to the year 2010 and is based on Cheyne Owen's synthesis of land use studies conducted by City staff over the past twelve months. Beyond the year 2010 development trends are less certain however it is assumed that under saturation conditions the remaining portions of the study area would be covered with low density residential development.

Over the next 25 years most development is anticipated in the west portion of the study area with progressive growth southward from the present City limits; annexation of developed lands is expected to follow growth patterns. Consequently one third of the study area will become urbanized over the next 25 years. Wastewater management facilities must be designed to serve these areas first, but with enough system flexibility to serve the remainder of the study area as development trends become apparent.

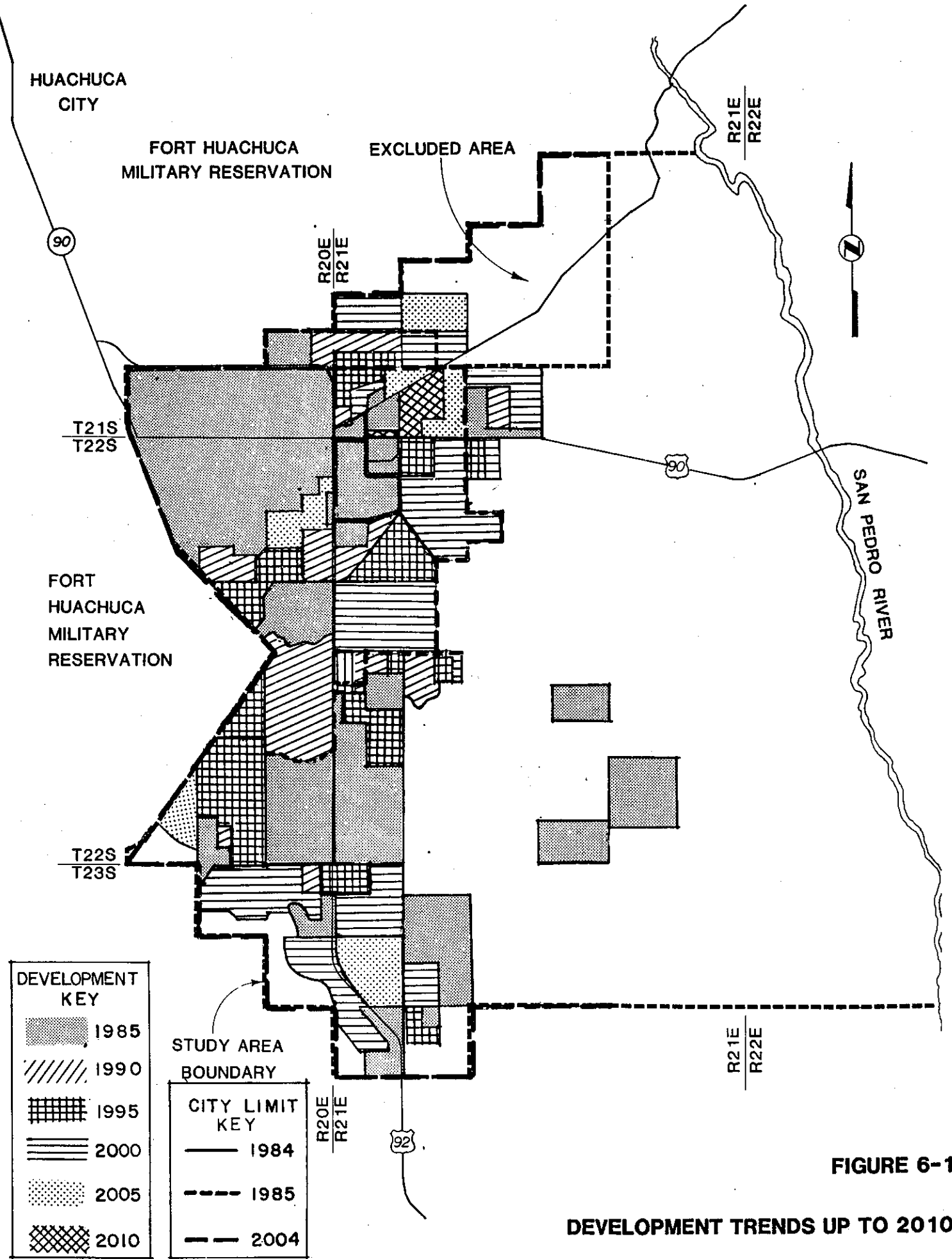


FIGURE 6-1

DEVELOPMENT TRENDS UP TO 2010

As discussed in Chapter 2 land use for the area west of Highway 92 and south of the present City limits is projected for relatively low density single family residences of between 1 and 5 dwelling units per acre, however out of twenty sections within this area of interest six sections have already been partially developed with one to two dwelling units per acre. Development at higher densities would therefore be restricted to the remaining fourteen sections or previously developed areas rezoned.

Remaining subbasins have been characterized with a mixture of dwelling densities up to five dwelling units per acre, however if the relative proportions between these densities shift in favor of the higher dwelling densities increased wastewater flows will result. The selected wastewater management strategy must address this possibility. Dwelling densities may be found in the ZONDATA output in Appendix 2.

DRAINAGE BASINS

As depicted in Figure 6-2 the study area is divided into eight major drainage basins which in turn are subdivided into smaller subbasins by the many tributaries to the principal water courses. Because of the northeast trending topographic slope, the major drainage basins lie parallel to each other and none are tributary to the other, but rather terminate near the escarpment above the San Pedro River into which the streambeds discharge.

Physically the drainage basins are not deeply defined across the western side of the study area near the foot of the Huachuca Mountains; however east of Highway 92 the drainage basins are much more pronounced and deeply incised by streambeds which in many cases have formed canyons 75 feet deep. Bacherich-McCool, Lewis Springs, Coyote/Donnet Frye and Charleston Washes are examples.

Drainage basins form an envelope for trunks and lateral sewers; interceptors, however, may cross individual drainage basins where topography permits. In the western half of the study area interceptors crossing the natural drainage basins are considered feasible, however further east beyond Moson Road the deeply incised streambeds make this increasingly difficult. In particular Garden Canyon virtually divides the study area at its midpoint.

East of the San Pedro River escarpment a relatively flat river plain up to one quarter mile wide follows the alignment of the river. Washes discharging through steep canyons at the

HUACHUCA CITY

FORT HUACHUCA MILITARY RESERVATION

EXCLUDED AREA

R21E
R22E

90

R20E
R21E



T21S
T22S

FORT HUACHUCA MILITARY RESERVATION

SAN PEDRO RIVER

WOODGUTTERS CANYON

CHARLES WASH

BONNET-FRY WASH

LEWIS SPRINGS WASH

BAKARICH MC. COOL WASH

GARDEN CANYON

GARDEN CANYON

RAMSEY CANYON

T22S
T23S

GARR CANYON

MILLER CANYON

STUDY AREA BOUNDARY

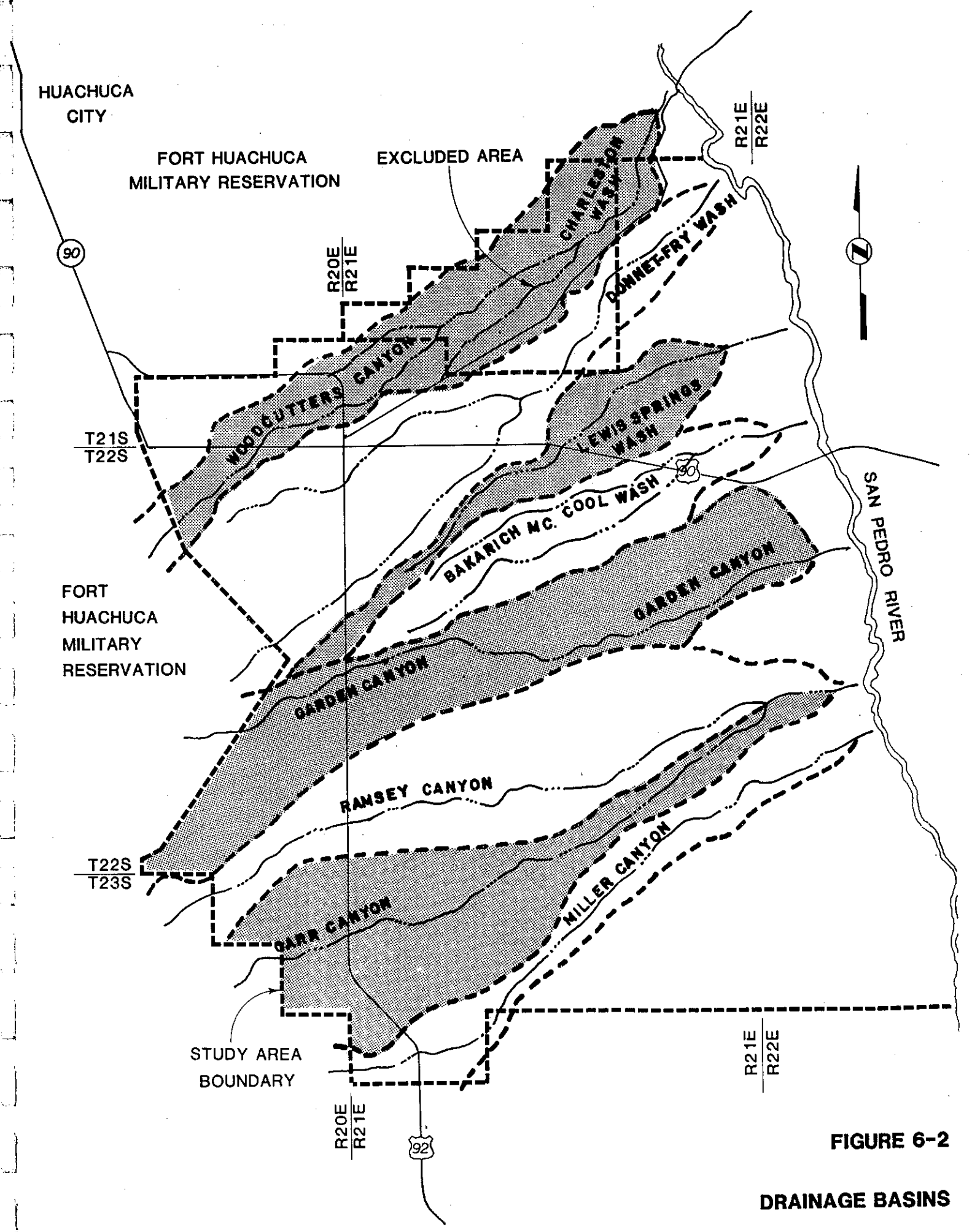
R21E
R22E

R20E
R21E

92

FIGURE 6-2

DRAINAGE BASINS



escarpment cross the floodplain and discharge into the San Pedro River.

LOCATION OF FUTURE TREATMENT FACILITIES

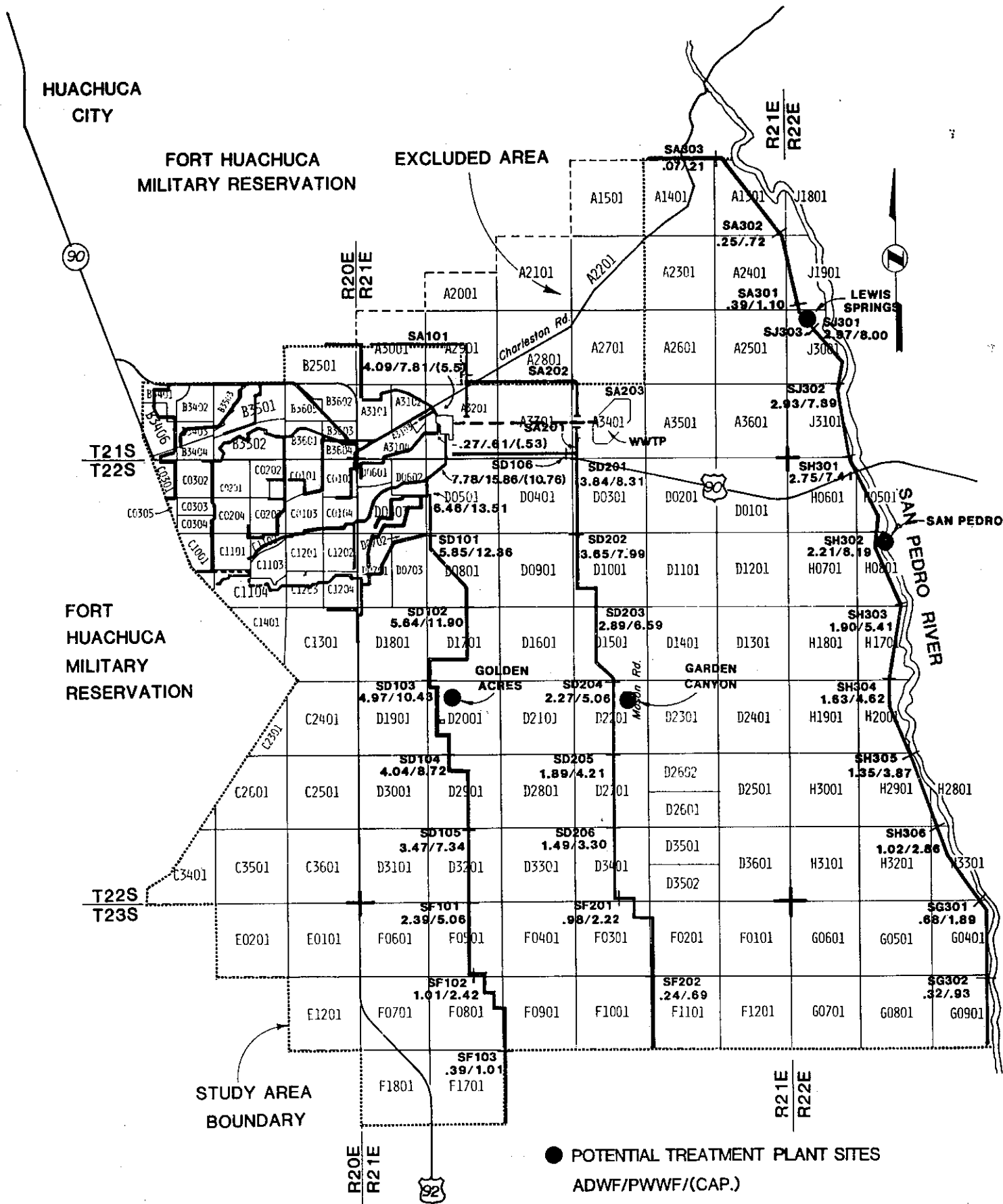
Because of topographical constraints future treatment facilities must lie to the north or east of tributary areas within the general study area. Figure 6-3 indicates potential treatment sites based on topographical constraints and development trends.

The two present City operated treatment plants lie on the north side of the study area and are ideally sited to receive flow from 50 percent of the study area. Because of the impracticality of immediately extending the conveyance system to serve leap frog development, upstream treatment sites may be considered on a temporary or permanent basis.

The privately operated Golden Acres treatment plant located immediately east of the Golden Acres trailer park is a candidate site for a municipal treatment facility because the site is 1) located near the midpoint of the study area and 2) tributary to areas planned for development by year 2010. Moreover reclaimed wastewater could be conveniently distributed from this plant to points of reuse in the southwest quadrant of the study area.

Because Garden Canyon effectively divides the study area other candidate locations for treatment facilities based on anticipated growth patterns include the northeast corners of Sections D2201 and H0801 as shown in Figure 6-3. Treatment works near the Moson Road/Garden Canyon junction would serve a tributary area of approximately 10 square miles south and east of the Golden Acres site including some existing residential areas. This area is anticipated for development beyond the year 2010 but before those portions of the study area near the San Pedro River. A treatment facility in section H0801 could not only serve the area tributary to the Garden Canyon site but an additional 26 square miles adjacent to the San Pedro River. Tributary flow from the south and west pass through this point because of topographical constraints imposed by Garden Canyon.

A potentially viable treatment plant site to serve the entire area between Moson Road and the San Pedro River lies in J3001; this has been designated the Lewis Springs Plant or site 3. This treatment plant site would not only serve a tributary area comprising 44 sections east of Moson Road but could also provide service to an additional twelve sections immediately west of Moson Road and south of Garden Canyon.



**FIGURE 6-3
POTENTIAL TREATMENT SITES
AND INTERCEPTOR ALIGNMENTS**

The six potential treatment plant sites form the basis upon which interceptor alignments must be developed and alternative wastewater management strategies formulated.

INTERCEPTOR ALIGNMENTS

The wastewater collection system consists of laterals, trunks and interceptors conveying wastewater from points of generation to treatment sites. As previously discussed major interceptors can either cross drainage basins to intercept flow from trunks lying within the basins or follow drainage basins to the San Pedro River. With the latter alternative flow cannot be conveyed to existing treatment plant sites and therefore short term goals would not be achieved even though long term strategies may be satisfactory.

Based on topographical studies interceptors aligned south from treatment Plant sites 1 and 2 are feasible; construction of an interceptor paralleling the San Pedro River would also be feasible if the alignment is maintained in the gently sloping river terrace. With interceptors aligned as shown in Figure 6-3 flow can also be delivered to treatment plant sites at Golden Acres, Garden Canyon and San Pedro. Wastewater management strategies employing some or all treatment sites will therefore incorporate these interceptor alignments, supplemented, as necessary by secondary interceptors, transferring flow trunks or pipelines paralleling existing conveyance facilities or transferring flow to down gradient interceptors.

INTERCEPTOR FLOW RATES

Figure 6-3 also shows (in red) wastewater flow tributary to each interceptor segment. Average daily and peak wet weather flows at fully saturated conditions are provided; average flows are used to size treatment facilities while peak wet weather flows set capacities of interceptors. If upstream flow is not diverted as a result of alternative conveyance strategy analysis, pipeline sizes and construction costs may be estimated using slopes of pipe segments determined from profile analysis. The following sections describe each interceptor and its alignment, profile, tributary flows capacity and relationship to other existing and planned pipelines and treatment facilities.

To minimize easement acquisition costs, alignments have been laid out along section lines, quarter lines and sixteenth lines commonly used as land boundaries in raw land descriptions.

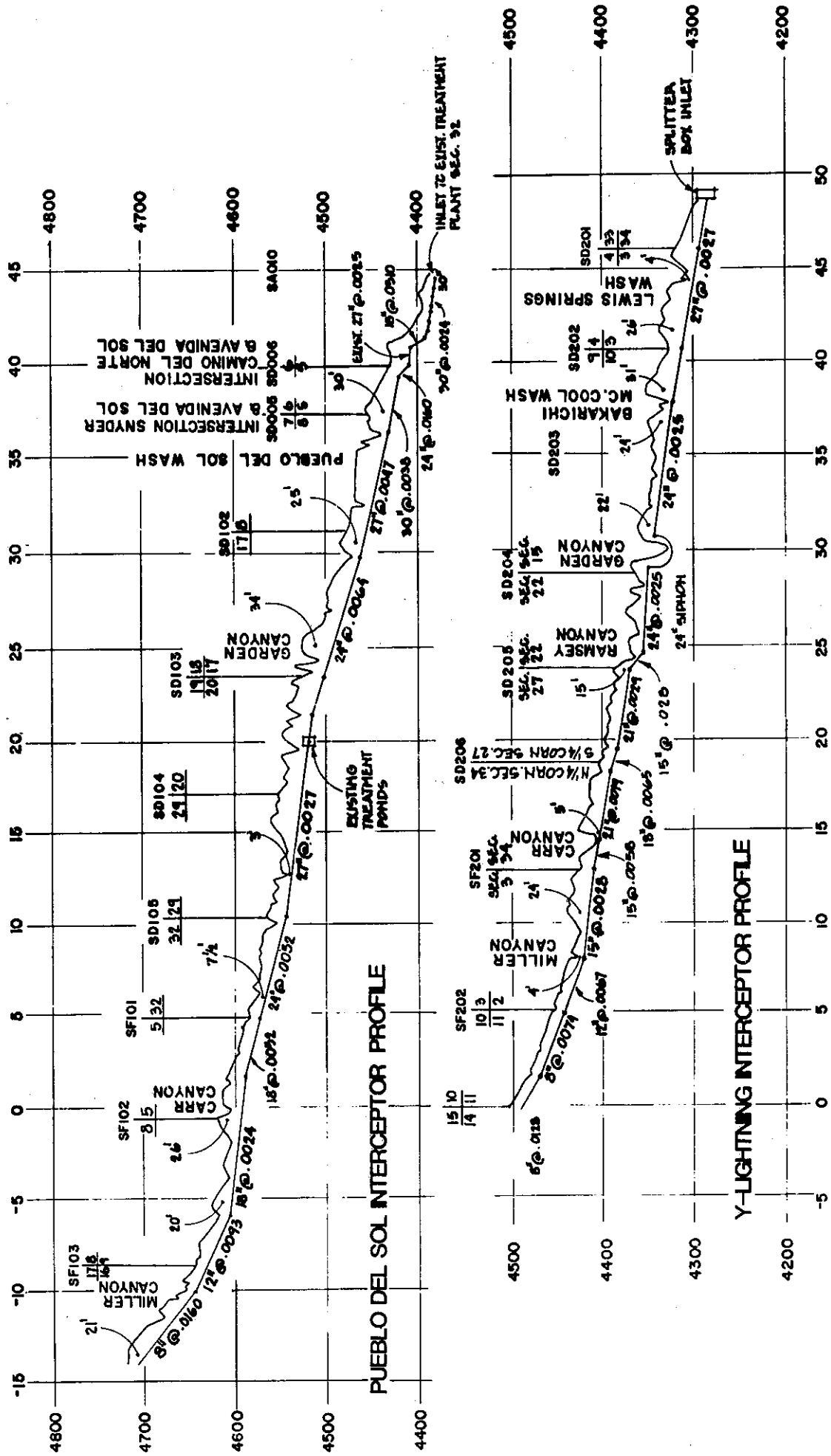


FIGURE 6-4

INTERCEPTOR PROFILES

Detailed design of these pipelines, however, would optimize both horizontal and vertical profiles. As a consequence alignments will move easterly and incorporate slightly more tributary area. This would assist in collecting sewage from residents on the fringes of existing subdivisions through which the pipeline may pass.

Interceptor flow rates, shown at section line node points in Figure 6-3, are based on future domestic and commercial unit sewage contributions of 75 gpd and 1000 gad respectively. These values are considerably above 60 gpd and 600 gad used to calibrate the model against the present wastewater flow rate received at Plant 1.

The total flow tributary to Plants 1 and 2 from the developed study area at the years indicated is summarized thus:

Year	Tributary Flows, mgd		
	Plant 1	Plant 2	Total
1990	3.02 (8.5)	0.2 (0.4)	3.22 (8.9)
2000	6.5 (14.5)	1.3 (2.6)	7.8 (17.1)
2010	8.0 (24.6)	1.5 (3.1)	9.5 (20.6)
Sat	11.7 (24.6)	5.9 (12.3)	17.6 (36.9)

Bearing in mind that 1990 flows are based on 60 gpd/600 gad while remaining flows have been computed at 75 gpd/1000 gad, existing treatment capacity will be exceeded some time after 1990. The majority of flow will be tributary to Plant 1, conveyed by the Central interceptor (Charleston) Bravo line and Pueblo del Sol interceptor.

As population growth expands to the south a greater proportion of flow will be conveyed by the PDS interceptor, ultimate flows in which are expected to reach 16 mgd; exceeding the capacity of the pipeline by 5 mgd. Approximately 3000 feet of the PDS line would therefore need to be augmented.

The following detailed descriptions set forth principal elements of an interceptor sewer system capable of providing service to the entire study area. Some of these elements will be incorporated into a future plan after a cost effectiveness analysis in the following chapter.

PUEBLO DEL SOL INTERCEPTOR

Because of anticipated growth in the west third of the study area over the next 25 years, initial elements of the collection system must be designed to serve the needs of this development. Extension of the Pueblo del Sol interceptor roughly along the range line one mile east of Highway 92 as shown in Figure 6-3 is feasible from an engineering standpoint; the pipeline profile from treatment plant 1 to Nicksville, depicted in Figure 6-4, shows pipe sizes, depths of extreme cuts and assumed grades. At wash crossings a conservative pipeline depth of seven feet has been assumed although this and other alignment features may be modified during detailed design.

The alignment commences at the present terminus of the Pueblo del Sol interceptor at Camino del Norte and Avenida del Sol and follows the planned alignment of the interceptor to Snyder Boulevard. The present 27 inch diameter Pueblo del Sol interceptor has a capacity of between 10 and 11 mgd and is considered adequate for up to 67 percent of saturation flow conditions for the dwelling densities assumed within the tributary area. Flow in excess of the present pipeline capacity would need to be conveyed in a parallel pipeline or diverted or treated at upstream points, for example, Golden Acres site.

Downstream from the intersection of Coyote Wash, the Pueblo del Sol interceptor has a capacity of 11 mgd, the saturation peak wet weather flow at this point is estimated at nearly 16 mgd.

With the realignment of the Town and Country interceptor parallel to Coyote Wash rather than following Camino del Norte, flow from Town and Country Estates will be introduced downstream from the most critical section of PDS line which has a capacity of only 10.8 mgd. At this section the estimated peak wet weather flow is 13.51 mgd. Between Camino del Norte and Snyder Boulevard a capacity of 16.4 mgd will be required which can be comfortably accommodated with a combination of 24 inch at 1.6 percent followed by a 30 inch at 0.38 percent gradient. Steeper grades would allow smaller diameter pipelines.

South of Snyder Boulevard and in concert with topographic characteristics, the interceptor has been aligned southeast to encompass portions of Sections D0801 and D1701 before confronting the Garden Canyon depression. Investigations were conducted into the feasibility of siphoning the flow across the canyon or deepening the pipeline to permit gravity flow. Neither alternative appeared cost effective or desirable and the selected alignment, therefore skirts the head end of Garden Canyon and returns to the Golden Acres Trailer Park.

With alignment and trench depths contemplated the pipeline will intercept flow from present collection system at Golden Acres treatment plant.

The pipeline sizes of between 24 and 27 inches in diameter near Golden Acres must handle approximately 10.4 mgd tributary to the Golden Acres treatment plant. With the rapidly increasing elevation gain toward the south the interceptor alignment can be steadily worked further to the east to pick up existing development near the Nicksville area. Terminus pipeline sizes reduce from 18 to 12 inches in diameter.

South of the Golden Acres Plant pipeline depths can be limited to between 15 and 26 feet allowing for 7 to 8 foot trench depths at the deeper canyons. North of Garden Canyon the pipeline will need to be 34 feet deep in places due to the circumvention of the canyon while in the vicinity of Pueblo del Sol Wash adjacent to Snyder Boulevard the 24 inch pipeline will need to be 30 feet deep.

If the entire tributary flow of 16 mgd were conveyed to the existing PDS line at Camino del Norte parallel pipelines of between 15 and 21 inches in diameter and capacity of 5 mgd would need to be constructed. As an alternative to paralleling the existing PDS line a treatment plant could be constructed at Golden Acres site or flow diverted to the Y Lightning interceptor through secondary interceptors/trunks on the north or south side of Garden Canyon. These measures would reduce the size and cost of the downstream segments of the PDS pipeline.

During detailed design of these pipeline segments trench depths may be reduced by minor adjustments to the alignment and less cover at wash crossings.

Y LIGHTNING INTERCEPTOR

Up to the year 2010 growth east of the Pueblo del Sol interceptor is not anticipated to the same degree as that on the west side of the pipeline. Exceptions however are anticipated for land adjacent to Highway 90 and land owned by Tenneco in Sections D0801, D0901, D1601 and D1701. At present low density single family dwellings are scattered along Moson Road and concentrated primarily in Sections D2602, D2601, D3501 and D3502.

Gravity flow into the City's wastewater treatment plant 2 in Section A3401 can be achieved with the Y Lightning interceptor, an alignment of which, is also shown on Figure 6-3 and profile in Figure 6-4. This profile however, is predicated upon

delivering flow to the present splitter box at the west side of the ponds. Future treatment facilities however may allow the pipeline terminus to fall much further east and at a considerably lower elevation. The recommended plan, therefore, may show a revised alignment for this pipeline.

With occasional cuts of between 25 and 33 feet this interceptor may be aligned with an almost constant slope to the northern edge of Garden Canyon. Pipe sizes would vary between 24 and 27 inches in diameter to carry a flow of up to 9.3 mgd.

At Garden Canyon five alternative systems were investigated for conveying a flow of 5 mgd to the north side.

1. Siphon
2. Pumped System
3. Pipe Bridge
4. Deep Gravity Sewer
5. No Conveyance

Siphon

With a siphon, upstream pipe profiles would be held to minimum depth while downstream pipe trench depths would be increased to provide a hydraulic gradient across the canyon floor, which, at the chosen alignment, is almost 1,200 feet in width. Across the canyon a small diameter multi-barrelled siphon would be constructed using 8, 12 and 18 inch diameter pipes.

While this system is relatively easy to construct trench depths north of Garden Canyon would be increased by approximately 4 feet and variable volume inlet structures would need to be constructed at the south rim.

Pumped System

Under this concept the upstream sewer would discharge into a pump station wetwell from which sewage would be periodically transferred through a 12 inch diameter force main to the gravity sewer on the north side of the canyon. While perhaps initially more expensive to install and operate than the siphon system, the pumped system has an advantage of higher pipeline velocities thus maintaining a cleaner more maintenance free pipeline.

Pipe Bridge

With the pipe bridge concept relatively shallow upstream and downstream gravity sewers would be connected across the canyon

through a pipe bridge. Garden Canyon would require a pipe bridge of approximately 1,000 feet long and 15 to 20 feet above the canyon floor.

Flood control ordinances specifically exclude construction of facilities in the floodplain and therefore special designs of a pipe bridge would perhaps be necessary and a variance from the present regulations obtained. The bridge would be relatively expensive and create potential environmental objections.

Deep Gravity Sewer

A deep gravity sewer could be constructed across the canyon with a crown level 10 to 15 below the wash flowline. Sewers upstream and downstream from the wash however would be over 50 feet deep in places and construction costs would therefore be considerable over many miles of pipeline.

No Pipeline Crossing

If wastewater flow is not conveyed across Garden Canyon two subalternatives may be considered: construction of a small wastewater treatment plant in the northeast corner of Section D2201 or D2301 or conveying flow through trunk sewers to the San Pedro interceptor for conveyance and ultimate treatment at a possible treatment plant in Section J3001. Depending upon phasing of future development another candidate treatment site may be suitable in Section H2001 as previously discussed.

With the former alternative (construction of a treatment plant on Moson Road) the Y Lightning interceptor could be continued south as shown or moved further east to incorporate as much land into the tributary area as is needed for development at that future point in time.

If wastewater is not conveyed across Garden Canyon the Y Lightning interceptor on the north side of the canyon could be reduced considerably in size and capacity.

Summary

Based on a qualitative assessment construction costs of a pipe bridge, deep gravity sewer or treatment plant would be considerably in excess of a simple siphon or pumping station and therefore the latter options were selected for further analysis.

The cost for a three barrel 8, 12, 18 inch diameter siphon would be approximately \$150,000. Peak wastewater flow rates up

to year 2010 are estimated at 0.2 mgd while under saturation conditions peak flows of 5.0 mgd and average flows of 2.37 mgd are anticipated. In early years a single 8 inch diameter siphon barrel would be adequate and construction on the 12 and 18 inch diameter pipelines could be deferred; under these conditions the initial siphon cost would reduce to \$40,000 excluding a flushing system. Maintenance on the siphon would be reduced if daily automatic flushing were provided so that accumulating sediment could be ejected.

A 5 mgd pumping station is estimated at \$240,000 comprising 1200 feet of 12 inch diameter force main costing approximately \$50,000.

Because of the cost of the pump station at ultimate capacity this is rejected as the preferred alternative although during early, low flow years a small packaged lift station of up to 1 mgd could be used in conjunction with the 8 inch diameter first siphon barrel. Engineering studies at the time of need would determine the optimum configuration of the conveyance across Garden Canyon at this joint, although a self flushing siphon is the best apparent alternative.

San Pedro Interceptor

The San Pedro interceptor would be constructed along the alluvial river terrace below the San Pedro River escarpment, follow the alignment of the river and enter the Lewis Springs treatment plant located in Section J3001. The purpose of this pipeline would be to intercept flow from trunk sewers emerging from each drainage basin east of the Y Lightning interceptor. Because of the relatively flat nature of the river terrace no particular construction problems are anticipated, however north of the proposed treatment plant site the escarpment moves almost to the edge of the waterway itself and the interceptor in Sections A1301 and A2401 would lie at the top of the escarpment and fall rather steeply to the treatment plant near the terminus of the interceptor.

The capacity of the pipeline at downstream reaches will be over 8 mgd from a tributary area of 44 square miles. Dwelling densities within the drainage area are assumed to be, on the average, one unit per acre, however high densities may ultimately be constructed especially if cluster development is employed on larger tracts of land. Pipe sizes will range from 12 to 27 inches in diameter laid at an average grade of 0.2 percent.

TRUNK LINES

Sewerage system trunk lines convey flow to the interceptors from the lateral and collector sewers in residential or commercial neighborhoods. The trunks, laterals and collectors will as a general rule be confined to specific drainage basins or subbasins within drainage basins; their configuration will be dictated by local topography and as a result the trunk lines will generally lie east-west on section lines or northeast along washes, watercourses or gulches. Two trunk configurations were studied: trunks lying on section lines or trunks paralleling major washes.

Since most of the study area is presently undeveloped the character of future development is unknown and therefore the configuration of public right of ways and sewerage system also remains in question; development of specific parcels of land will be dictated by the amount of regrading undertaken, access to major public right of ways and proximity of existing or planned sewage conveyance facilities.

TRUNKS PARALLELING WASHES

Because drainageways ultimately become dedicated public right of ways and lie at the lowest point within a drainage subbasin basin, trunk lines aligned parallel to drainageways represent a convenient system configuration. Because of the topographic fall toward the northeast this alignment potentially has the shortest distance from points of wastewater generation to interceptors. Because of the meandering nature of washes the probability of "shortest distance", however, may be illusory rather than real. Further many of the large washes are unsuitable to accommodate trunk lines because of their great depth while the smaller drainage channels may be realigned or regraded to suit land development.

Advantages of the drainageway alignment are that trunks 1) lie centrally within a drainage basin, 2) may represent the shortest distance to an interceptor, 3) generally lie at minimum depth and 4) may be further apart.

Disadvantages include the fact that 1) washes are not straight but meander, 2) the alignment may pass through environmentally sensitive areas containing mature trees and greenbelts many of which would be removed during sewer construction, 3) some washes are too deep, 4) flood flows in washes may inundate sewer manholes if below the floodplain and 5) washes are generally randomly spaced and collector or lateral sewers would need to be longer.

TRUNKS ON SECTION LINES

With trunk sewers located one mile apart along section lines collector sewers may be oriented to the north, east, or northeast to intercept the trunk line. Advantages of this configuration include: 1) alignments are well defined, 2) generally on straight lines, 3) probable locations of future public right of ways, 4) do not adversely affect the washes, 5) may be closer together and 6) the terminus of interceptors into which the trunks discharge are constructed further to the south.

Disadvantages of trunks on section lines are that sewers may be marginally deeper to pass from one subbasin to another and for some developers owning large tracks of land this configuration may be uneconomic.

Topographic considerations indicate that trunks on section lines may be suitable for the area west of the Pueblo del Sol interceptor, however east of that pipeline and in conformance with the increasingly incised drainage basins trunk lines parallel to washes may be more feasible. Alignment of trunk lines in specific drainage basins is beyond the scope of this report.

The following chapters will utilize information generated in this chapter to develop alternative wastewater management strategies and prepare a cost effective analysis.

CHAPTER 7

WASTEWATER MANAGEMENT STRATEGIES

Wastewater management strategies are feasible combinations of conveyance and treatment elements that will fulfill study area needs not only during the study area period but beyond to ultimate development and population saturation. Long term goals may be impractical to implement in the short term because of the financial burden combined with the uncertainty of long term development trends, therefore, alternative strategies must remain flexible and be capable of gradual implementation in the face of increasing wastewater loads.

Each strategy formulated uses interceptor configurations and treatment plant sites previously discussed and enumerated. The purpose for studying alternative strategies is to not only identify the minimum cost to the public but to satisfy other primary and secondary goals. Primary goals include:

1. Aesthetics and public health
2. Cost of treatment
3. Reclamation potential and cost
4. Use of existing facilities and resources

Secondary goals include treatment flexibility (effluent quality and plant expandibility), elimination of wastewater pumping stations minimizing the number of treatment plants and degree of operational difficulty.

Figure 7-1 depicts each wastewater management strategy schematically. Interceptors and treatment plant locations are visually displayed in the same general arrangement as shown in Figure 6-3. To evaluate the relative size of treatment facilities, and, interceptor capacities, sewage flow rates are displayed at critical points in each system; each group of flow rates is divided into two columns of three lines; from left to right the columns indicate average dry weather flow and peak wet weather flow corresponding to evaluation criteria for treatment plants and interceptors respectively; while the lines in descending order represent the years 2000, 2010 and at saturation conditions.

The columns of schematic layouts in Figure 6-5 from the left to right represent single wastewater plant options, two plant options and multiple plant options. Treatment plant facilities may be either reclamation plants or full wastewater treatment

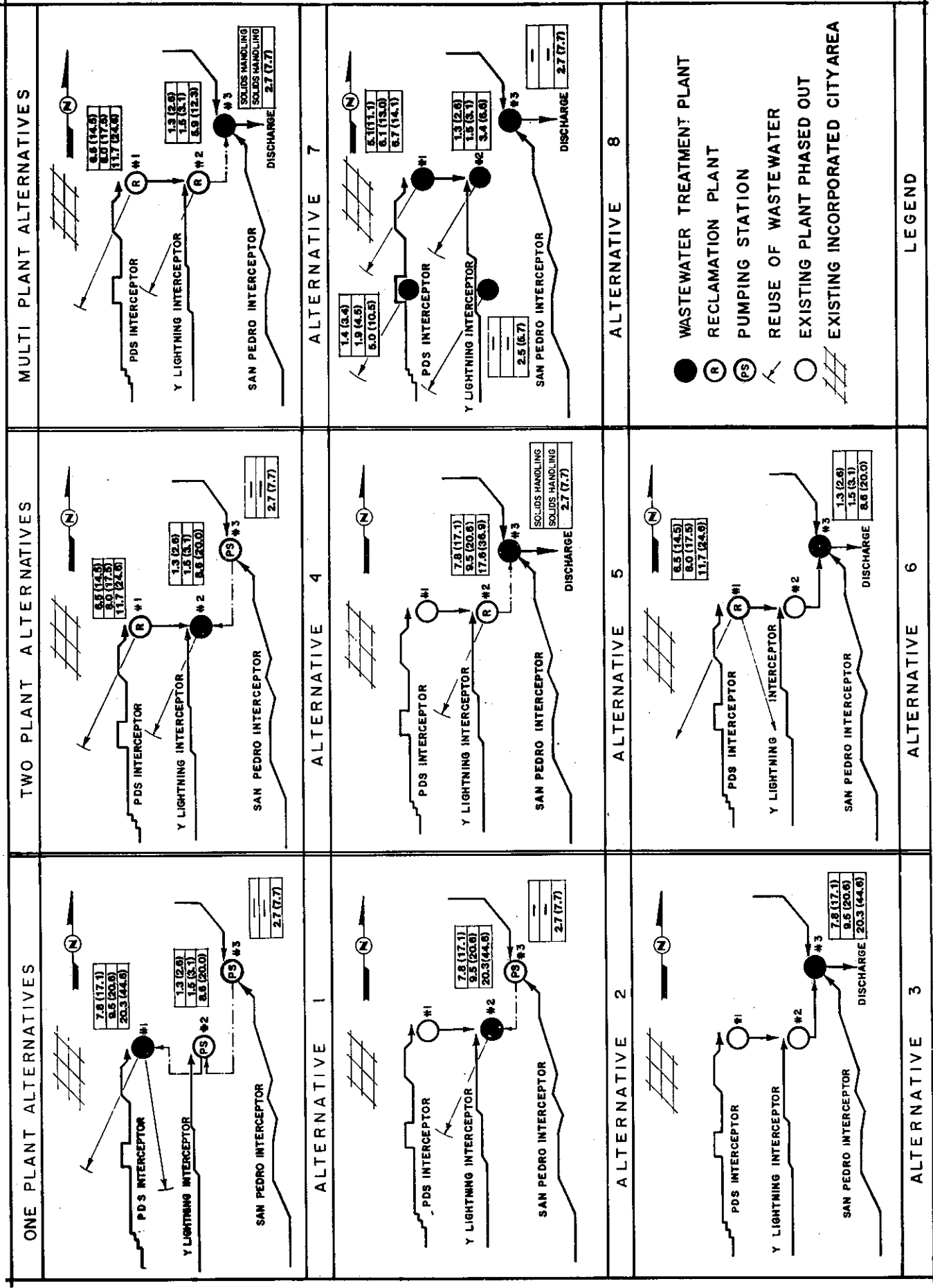


FIGURE 7-1

WASTEWATER MANAGEMENT ALTERNATIVES

plants in which both wastewater treatment and solids handling (sludge reduction) facilities are incorporated. Reclamation plants typically only treat the liquid stream for reclamation purposes while solids removed from the wastewater together with biological waste solids developed in the plant are discharged to another wastewater treatment plant for further processing and stabilization.

ALTERNATIVE 1 - TREATMENT FACILITY AT SITE 1

Under this alternative a single wastewater treatment plant would be constructed at site 1, with major pumping stations at sites 2 and 3 as schematically depicted in Figure 7-1. The new plant at site 1 would be constructed in phases, the first of which, would have a 8 mgd capacity followed by additional 2 or 3 mgd increments as the need dictates up to a maximum capacity of 20 mgd. Farming operations could be continued at site 2 where a portion of the reclaimed wastewater would be used for irrigation. Renovated wastewater would also be made available to parks, golf courses and other public areas within the metropolitan district.

The wastewater treatment plant would be constructed on land given by the state of Arizona for that purpose. The area is in close proximity to potential sources of reuse and residential neighborhoods. Most of the wastewater flow from the study area up to the year 2010 will be tributary to this location.

Disadvantages include the fact that solids handling facilities would be close to residential neighborhoods and major pumping stations would be needed with many miles of force main to maintain.

ALTERNATIVE 2 - SINGLE TREATMENT FACILITY AT SITE 2

The City's existing plant 2 would be developed into a full wastewater treatment plant with capacities of 8, 10 and 20 mgd at years 2000, 2010 and saturation; flow tributary to plant 1 would gravity flow to Section 34. One major pumping station (Lewis Springs) would be required under this alternative, however several small pumping stations may be required in the short term as the need arises.

The wastewater treatment plant at this location would be tributary to a larger portion of the study area than Alternative 1, however more remote from potential points of reuse. The Lewis Springs pump station would have a maximum capacity of 8 mgd and the force main would be 5 miles in length. Construction of the plant would be on land already owned by the City and farming operations could be continued as presently practiced.

Up to the year 2010 the ponds could be used for secondary treatment with major facilities limited to primary treatment and solids handling, however mechanical aeration of the ponds would be necessary.

ALTERNATIVE 3 - SINGLE TREATMENT FACILITY AT SITE 3

With this alternative the need for small pumping stations would be eliminated with the exception of minor pumping stations during interim stages of development of the sewerage system. Wastewater would gravity flow to the Lewis Springs plant from all points within the study area. Initial plant construction would be 8 mgd with future capacities of 10 and 20 at year 2010 and saturation. Plants 1 and 2 would be retired.

Advantages of this alternative include the fact that the site is far removed from any present centers of population and is close to the San Pedro River in the event a discharge permit is required.

Disadvantages stem from the fact that land would need to be purchased and the cost of reclaimed water would be considerably higher due to the long force main lengths and high lifts. Existing facilities at sites 1 and 2 would not be employed.

ALTERNATIVE 4 - RECLAMATION PLANT AT SITE 1 WASTEWATER TREATMENT PLANT AT SITE 2

This two plant alternative would utilize both land and facilities at both existing sites, place the reclamation plant close to sites of potential wastewater reuse, remove solids handling facilities to site 2 away from present centers of population, and, allow farming operations to continue at site 2. Initial capacity of Plant 1 would be 6 mgd rising to 12 mgd at saturation; Plant 2 would operate as under present conditions up to and perhaps beyond the year 2010. Ultimately Plant 2 would receive a flow of nearly 9 mgd.

Disadvantages include the fact that a pumping station would be required at the Lewis Springs site and two treatment facilities would be operated.

ALTERNATIVE 5 - RECLAMATION PLANT AT SITE 2 WASTEWATER TREATMENT PLANT AT SITE 3

Alternative 5 would provide a reclamation facility on Section 34, which, although further removed from potential points of wastewater reuse (with the exception of farming operations on

Section 34) could still serve the developed portion of the study area with a renovated water system; solids handling facilities would be located at the Lewis Springs plant. Initial construction of Plant 2 would be to 8 mgd with ultimate capacity of 18 mgd. Lewis Springs plant would have an ultimate capacity of 8 mgd.

Pumping stations would be eliminated (with the exception of small interim facilities) as points within the study area may gravity flow to one or another treatment facility.

ALTERNATIVE 6 - WASTEWATER TREATMENT PLANTS AT SITES 1 AND 3

Under this concept a 6 mgd treatment plant (ultimate capacity 12 mgd) would be constructed at site 1 close to points of potential reuse and to which most of the wastewater flow is tributary while interim operation of Plant 2 would continue beyond the year 2010. A new 9 mgd wastewater treatment facility constructed after year 2010 at the Lewis Springs site would receive wastewater flow from the eastern half of the tributary area eliminating the need for pumping stations and enabling retirement of Plant 2.

While treatment operations at site 2 would continue for some years, these would be phased out with construction of plant 3 beyond the year 2010. The rationale for this is that wastewater flow tributary to plant 2 is relatively small up to the year 2010 and well within the capacity of the existing facilities. New facilities beyond the year 2010 however would be more economically constructed at the Lewis Springs site rather than at site 2. Farming operations could be continued on Section 34 with reclaimed water supplied from plant 1 or the land could be sold to defray expenses and purchase of land for the Lewis Springs plant.

Because of the location of site 1 and the magnitude of wastewater flows tributary to that point, reclaimed wastewater may be distributed to all points within the study area economically. Although two plants would be operated no major pumping stations would be required.

ALTERNATIVE 7 - THREE PLANT SYSTEM

Alternative 7 would utilize three plants: a 10 mgd reclamation plant at site 1 and treatment plants at site 2 and 3 both with capacities of between 3 and 6 mgd. With this system wastewater would be available for reuse at three points within the study area and no pumping stations would be needed apart from

small interim facilities. The wastewater conveyance system would be kept at modest size and present sites would be utilized with solids handling facilities relegated to sites 2 and 3, removed from centers of population. The principal disadvantage is the fact that three plants would need to be operated. The third plant, Lewis Springs plant, would not need to be constructed until well beyond the year 2010 when development trends in the area tributary to this facility can be more clearly identified.

ALTERNATIVE 8 - MULTI PLANT SYSTEM

Alternative 8 considers the possibility of constructing smaller wastewater treatment plants not only at existing sites but at upstream points on the major interceptors or trunk lines. Candidate locations are at the Golden Acres treatment site, Garden Canyon/Moson Road area, Section H2001 and at the three sites previously considered.

The principal advantage of constructing small multiple plants are that due to leap frogging development within the study area, conveyance and treatment facilities may be phased more easily; major conveyance systems will be smaller and less costly and topographical constraints are minimized. Further, reclaimed wastewater would be more evenly distributed throughout the study area with a consequent decrease in distribution costs.

Disadvantages stem from the increased management of a larger number of facilities, costs of travel, operation and maintenance and treatment sites closer to residential areas.

An examination of wastewater volumes tributary to each plant may be seen in Figure 7-1; at the year 2000 1.4 mgd would be tributary to the Golden Acres plant with 5 mgd tributary to plant 1. Plant 2 would remain with just over 1 mgd of tributary flow until saturation conditions when plants 1 and 2 would have tributary load of approximately 7 and 3 mgd respectively. The Garden Canyon plant would not have significant tributary flow until saturation conditions at which time almost 2.5 mgd may be tributary to that facility. The Lewis Springs plant will require a capacity of 2.7 mgd at saturation unless an upstream facility is constructed in Section H0801; both plants would then require a 1.5 mgd capacity.

EVALUATION CRITERIA

Before embarking upon an evaluation of each of the alternatives a review of the basic goals and a discussion of their importance must be placed firmly in perspective.

Aesthetics/Public Health

This is considered the most important feature of any wastewater management strategy for without acceptable aesthetics and protection of public health and well being, a general dissatisfaction with facilities will result.

Aesthetics is concerned with visual appeal and proximity of treatment works to residential neighborhoods. Public health is concerned with the population well being associated with aesthetic impact and the more tangible aspects of odor generation, and disease vectors associated with certain types of treatment processes.

While economics of reclaimed water systems dictate that treatment facilities remain reasonably close to points of reuse, proximity of treatment facilities to residential area needs to be carefully considered to ensure that the impact is not adverse and overall treatment processes and practices are compatible with imposed environmental constraints.

In particular, solids handling facilities may be regarded as processes of potential concern since process upsets and uncontrolled release of odors commonly occur with these facilities. Reclamation plants in which treatment processes are limited entirely to the liquid stream are more compatible when close to residential areas. Examples where this has been practiced include the larger metropolitan areas in California where upstream reclamation plants not only supply reclaimed water to golf courses and other recreational areas, but are an essential feature of the overall management system to reduce the size of interceptors converging on a central treatment plant. When properly designed and constructed reclamation plants near residential communities operate without noticeable impact on the neighborhood.

Cost of Treatment

The cost of wastewater treatment is composed of capital and operating and maintenance elements and will be more fully evaluated in the cost effective analysis. Capital costs associated with treatment and conveyance will be affected by the location of the facilities, size, capacity and complexity of treatment works. Operation and maintenance costs will be affected by location of treatment works, number of facilities and pumping stations.

Sewage Pump Stations Sewage pump and lift stations are undesirable in any wastewater management system, more especially if long force mains and high lifts are required. Disadvantages stem from the fact that each station must function with a high degree of reliability in the face of constantly changing influent flows, quality of the raw wastewater and preventative and emergency maintenance. Because of these factors, construction and operation of these facilities is expensive; minimizing the use of these facilities is therefore a high priority in planning any wastewater management system.

Operational Simplicity Consistent with the goals and objectives of a wastewater management system and the effluent quality required treatment processes, plant configurations, number and location of plants must be given careful attention.

Reclamation Potential and Cost

Because of the need to conserve water as a valuable resource, reclamation and reuse will become of increasing importance in the Sierra Vista area as has been the case in the Tucson and Phoenix areas.

The economics of reclamation dictate that the costs of reclaimed water be less than that for potable water before the sale to potential customers becomes attractive. To this end, the location of treatment facilities near centers of reuse is an important consideration. Long force mains and high lifts increase the cost of reclaimed water through interest on capital charges and operation and maintenance expenses from electric power and depreciating equipment. For example the cost of lifting one million gallons of wastewater 100 feet would cost \$70.00.

Since the water would also need to be delivered under pressure and lifted 200 to 300 feet for reclamation purposes the cost will rise to between \$18.00 and \$240.00 per million gallons. To these power costs other operation and maintenance costs, overhead, and capital expenses need to be added.

It has been found that if reclaimed water can be held to 80 to 90 percent of potable water large water consuming customers are attracted to its use and consumption. In comparison potable water costs vary between \$970 to \$3500 per million gallons, in the Sierra Vista area.

As discussed in Chapter 1, 380 acres are presently dedicated recreational areas to which 120 acres will be added in the near future. The resulting 500 acres, or 2.6 percent of land use (over the developed area to year 2010) would be available for irrigation with reclaimed water.

In comparison, urban planning dictates that 3.5 percent be set aside for recreational use (5 percent in large cities with no periferal wilderness areas). The City of Tucson has 3.5 percent of land within the incorporated area devoted to golf courses, parks and cemeteries, and, nearly 10 percent including schools, public building sites and hospital grounds.

Additional recreational areas would therefore likely be constructed within the planning area developed by year 2010; the total recreational area available for irrigation with reclaimed water could therefore increase to 800 acres. Other candidate locations for irrigation include open land around City buildings, highway medians and slope/shoulders requiring vegetation for stabilization.

The quantity of water needed for irrigation fluctuates with the seasons and areas overseeded in winter. Typical demands range from 2000 to 10,000 gallons per acre per day with an annual average of 5500 gad. For the present 380 recreational acres this demand would require 2 mgd of reclaimed water rising to 4.4 mgd if 800 acres were dedicated recreational areas. Peak flow rates would require 4 to 8 mgd. In comparison, wastewater generated within the study area is assumed to rise to nearly 8 mgd by year 2000 and 10 mgd by 2010.

As the developed area moves further east still more recreational land will be set aside, requiring further irrigation. Public acceptance of reclaimed water for irrigation combined with future ease of connection to a force main distribution system is anticipated to steadily increase demand, not only for irrigation needs but industrial uses.

With a domestic potable water cost of between \$970 and \$3500 per million gallons, reclaimed water at one third to one half this cost will be an attractive asset to the community.

SCREENING OF ALTERNATIVES

The screening process is designed to submit each alternative to a critical analysis using subjective criteria previously discussed. The objective is to reduce the number of alternatives to a managable number; the surviving alternatives will be analyzed with a cost effective analysis in a later portion of this chapter. The four subjective parameters include aesthetics, cost of treatment, cost of reclamation and use of existing facilities; each alternative will be given a score of between of 1 and 10 for each parameter, the highest number of which represents best attainment of goals.

Table 7-1 sets forth the results of the this subjective evaluation and indicates the rank of each alternative. The highest ranking alternative is Alternative 2: expansion of Plant 2 in Section 34; principal reasons for the highest score include 1) good aesthetics, 2) reasonable cost of treatment and reclamation and 3) use of existing facilities.

TABLE 7-1: Subjective^a Evaluation of Alternatives

Alternative	Aesthetics	Cost of Treatment	Cost of Reclamation	Cost of Existing Facilities	Score	Rank
1	3	6	8	3	20	7
2	7	8	5	6	26	1
3	10	9	2	0	21	5
4	6	5	8	6	25	2
5	8	5	5	3	21	5
6	7	5	8	2	22	4
7	7	3	8	6	24	3
8	2	2	9	6	19	8

^a Scored out of 1 to 10; highest number represents best attainment of goals.

The second ranking alternative was Alternative 4 utilizing Plants 1 and 2; the third rank was earned by Alternative 7 utilizing Plants 1, 2 and 3 while the fourth rank went to Alternative 6 utilizing Plants 1 and 3.

Alternatives 3 and 5 were both ranked fifth while the seventh rank was assigned to Alternative 1. The eighth alternative was ranked last. The first four alternatives were selected for a detailed cost effective analysis while Alternative 8 was included at the City's request.

Of interest is the fact that Alternatives 4, 6, 7 and 8 contain many similar elements and selection of any one, could in the future, allow great flexibility in changing the selected plan to meet unforeseen trends within the study area.

COST EFFECTIVE ANALYSIS

The cost effective analysis employed in this document, assigns capital, operation and maintenance costs to major elements of each alternative for three principal time periods between years 1990 to 2000, 2000 to 2010 and 2010 to saturation. Capital, operation and maintenance costs expended during each of those periods are brought to a present worth in 1985 for cost effectiveness comparisons between competing alternatives. Principal elements of each alternative include treatment plants, major interceptors and pipelines, wastewater pumping stations and force mains and the reclaimed water system; each element is shown

as a separate subtotal for enabling the present worth of phased costs to be evaluated.

Because construction phasing is critical to the cost effectiveness of a particular alternative a brief discussion of the manner in which each alternative would be implemented follows. Cost analyses of alternatives may be found on Tables 7-2 through 7-6 with a summary table expressing results of the present worth calculations in Table 7-7, 7-8 and 7-9.

ALTERNATIVE 2

As set forth in Table 7-2 Treatment Plant 2 would be expanded from its present capacity of 2 mgd to 8 mgd in year 2000, 10 mgd at year 2000 and 18 mgd beyond the year 2010. This would be accomplished by utilizing the present ponds for secondary treatment and constructing primary treatment and solids handling facilities together with site works and an administrative/maintenance center.

TABLE 7-2: Cost Analysis - Alternative 2 - Expand Plant 2

Description	1990-2000		2000-2010		2010-SAT	
	Capital	Operation & Maintenance	Capital	Operation & Maintenance	Capital	Operation & Maintenance
Treatment Plant 2						
Capacity 7.5 mgd	9,260 ^a	492	7,740 ^b	639	17,000	1,065
Capacity 9.0 mgd						
Capacity 18.0 mgd						
SUBTOTAL	9,260	492	7,740	639	17,000	1,065
Interceptors						
PDS	2,002	6	1,244	13		13
Y Lightning	630	2	1,255	5	1,887	11
San Pedro					5,512	16
Highway 90	870	2		2		2
Bella Vista	1,035	3		3		3
SA201	431	1		1		1
Wastewater Pumping Stations						
San Pedro					2,120	876
Force Main					1,980	6
Moson Road/ Garden Canyon					172	18
SUBTOTAL	14,228	506	10,239	663	28,671	2,011
Reclaimed Water System						
Pumping Station						
Filtration Plant	580	385	147	517		517
Force Mains	1,500	8	464	12		12
SUBTOTAL	2,080	393	611	529	—	529
GRAND TOTAL	16,308	899	10,850	1,192	28,671	2,540

^a Primary plant with solids handling (65% of WWTP costs).

Secondary treatment with mechanically aerated ponds.

^b Secondary treatment facilities - ponds retired.

Primary treatment works would remove most of the raw wastewater solids together with an estimated 50 percent of the biochemical oxygen demanding substances, effectively cutting in half the unit BOD load discharged to the ponds. The present capacity of the ponds would thus be raised to 4 mgd; the liquid detention time would be maintained by deepening the ponds.

Beyond 4 mgd secondary treatment facilities would be constructed in concept with the demand for reclaimed water. Effluent filters would be required to finished renovated wastewater and possibly wastewater discharged to streambeds; additional land may be required for irrigation.

Solids removed by the primary treatment facilities would be transferred to solids handling works where stabilization would be provided by anaerobic digesters followed by facultative sludge lagoons. As an alternative aerobic composting could be carried out to produce a marketable fertilizer.

Before the year 2000 the ponds could be retired and replaced with other secondary treatment facilities depending on the ratio of reclaimed water needed for resale and that utilized directly for farming operations.

Interceptors

The Pueblo del Sol interceptor would be constructed out to the Golden Acres area during the 1990 to 2000 period and extended to Nicksville between the years 2000 and 2010.

The Y Lightning interceptor would be extended 1 mile south from Plant 1 during the first construction phase and to Garden Canyon at year 2000. Beyond the year 2010 the Y Lightning would be constructed across Garden Canyon to serve the area to the south. Construction of the first phase of Y Lightning would enable flow generated in the eastern portion of the Tenneco's land to be directed to this interceptor together with that from development anticipated parallel to Highway 90.

The Highway 90 trunkline would be enlarged to an interceptor to convey flows from the Pueblo del Sol line east to Plant 2. This pipeline would be increased in size significantly from trunk sizes of 8 to 10 inches in diameter to between 24 and 30 inches in diameter for the interceptor.

The Charleston trunk would also be considerably enlarged under this alternative to carry flow generated within the present city area to Plant 2 since the present plant intertie has a capacity of only 2 mgd and an estimated 7 mgd will be generated

in the City area. With construction of the Highway 90 interceptor, the plant inlet portion of the Y Lightening interceptor designated as Section SA201, will also be required.

At ultimate development the San Pedro interceptor would be constructed parallel to the river.

Wastewater Pumping Stations

In order to serve the area to the east a major wastewater pumping station would need to be constructed at the location designated for a possible wastewater treatment plant site near Lewis Springs. The estimated cost of this facility is considerable because of the high pumping heads.

The Moson Road-Garden Canyon pumping station would be a relatively small station serving the area south of Garden Canyon. As an alternative this could be replaced with a siphon when flows increase.

Reclaimed Water Systems

The reclaimed water system consists of a pumping station and filtration plant contained in a single structure. Filtration would be carried out with pressure filters; the renovated wastewater would be chlorinated for reuse.

ALTERNATIVE 4

With Alternative 4 a reclamation plant would be built at Plant 1 while a full wastewater treatment plant would be constructed at Plant 2. To meet anticipated wastewater flow increases a 6 mgd reclamation plant would be constructed in 1990 with an expansion to 8 mgd in the year 2000 and 12 mgd at year 2010. Table 7-3 documents facilities and costs.

Treatment Plant 2 would be maintained in its present form until the year 2010 when a 9 mgd facility would be constructed. During 1990 solids handling facilities would be provided at Plant 2 to treat wastewater sludges generated from Plant 1.

Interceptors

As described under Alternative 2 the Pueblo del Sol and Y Lightening and San Pedro interceptors would be constructed as previously described. However, Highway 90, Charleston trunks and interceptor SA201 would be significantly reduced in capacity and cost due to flow diversion to the treatment plant at site 1.

TABLE 7-3: Cost Analysis - Alternative 4 - Plant 1 Reclamation, Plant 2 WWTP

Description	1990-2000		2000-2010		2010-SAT	
	Capital	Operation & Maintenance	Capital	Operation & Maintenance	Capital	Operation & Maintenance
Reclamation Plant 1						
Capacity 6 mgd	7,200	344	1,500	396	1,500	448
7.5 mgd						
9.0 mgd						
Treatment Plant 2						
Capacity 2 mgd		198		198		
2 mgd					17,000	639
9 mgd						
Solids Handling Facilities	4,800	148	1,000	170	1,000	191
SUBTOTAL	12,000	690	2,500	764	19,500	1,278
Interceptors						
PDS	2,002	6	1,244	13		13
Y Lightning	630	2	1,255	5	1,887	11
San Pedro					5,512	16
Highway 90	615	2		2		2
Bella Vista			342	2		2
SA201	290	1		1		1
Wastewater Pumping Stations						
San Pedro					2,120	876
Force Main					1,980	6
Moson Road/ Garden Canyon					172	18
SUBTOTAL	15,537	701	5,341	787	31,171	2,223
Reclaimed Water System						
Pipelines	840	6	464	10		10
Pump Station/ Filters	560	288	140	376		376
SUBTOTAL	1,400	294	604	386	--	386
GRAND TOTAL	16,937	995	5,945	1,173	31,171	2,609

Wastewater Pumping Stations

A pumping station would be constructed at Lewis Springs Plant to convey flow to Plant 2 from the developing area east of the Y Lightning interceptor. The Moson Road-Garden Canyon pumping station would be constructed as needed.

Reclaimed Water Systems

The reclaimed water system would be significantly reduced in cost under this alternative because Plant 1 would be closer to points of reuse thus requiring shorter force mains, pumping heads would be lower and operation and maintenance costs would be significantly reduced.

ALTERNATIVE 6

Alternative 6 utilizes treatment Plants at Sites 1 and 3 with interim operation of Plant 2 to the year 2010 as delineated in Table 7-4. Because of the remoteness and uncertainty of Plant 3 construction, however, solids handling facilities would not be constructed at Lewis Springs but at treatment Plant 1 with the exception of the facultative sludge basins which would be located at Plant 2.

TABLE 7-4: Cost Analysis - Alternative 6 - Plants 1 and 2

Description	1990-2000		2000-2010		2010-SAT	
	Capital	Operation & Maintenance	Capital	Operation & Maintenance	Capital	Operation & Maintenance
Treatment Plant 1						
Capacity 6.0 mgd	12,000	492				
7.5 mgd			2,500	566		
9.0 mgd					2,500	639
Treatment Plant 2						
Interim Operation		198		198		
Treatment Plant 3						
Capacity 9.0 mgd					17,000	639
SUBTOTAL	12,000	690	2,500	764	19,500	1,278
Interceptors						
FDS	2,002	6	1,244	13		13
Y Lightning	630	2	1,255	5	1,887	11
San Pedro					5,512	16
Highway 90	615	2		2		2
Bella Vista			342	2		2
SA201	290					
Highway 90 Extended					311	6
SUBTOTAL	15,537	700	5,341	786	27,210	1,328
Reclaimed Water System						
Pipelines	840	6	464	10		10
Pumping Station & Filters	560	288	140	376		376
SUBTOTAL	1,400	294	604	386	—	386
GRAND TOTAL	16,937	1,014	5,945	1,172	27,210	1,714

A 6 mgd plant would be constructed in 1990 followed by expansions to 8 mgd at year 2000 and 9 mgd at year 2010. Plant 2 would be operated on an interim basis to beyond the year 2010 when the need for construction of Plant 3 would be studied. The ultimate capacity of Plant 3 has been estimated at 9 mgd.

Interceptors

As before the Pueblo del Sol and Y Lightning interceptors would be constructed as previously described together with the San Pedro. Highway 90, Bella Vista and SA201 interceptors would remain as trunk lines.

Reclaimed Water Systems

The reclaimed water system would be the same size, capacity and cost as that described under Alternative 4.

ALTERNATIVE 7

Alternative 7 examines the possibility of constructing Plants 1, 2 and 3 to take advantage of present facilities and their location for providing reclaimed water to more points within the study area; costs and system elements are documented in Table 7-5. Plant 1 would be constructed as a reclamation plant to 6 mgd capacity initially rising to 8 mgd at year 2010. Plant 2 would be constructed as a reclamation plant with a 6 mgd capacity beyond year 2010. Until that time the plant will remain in operation under existing conditions with a flow of less than 2 mgd.

TABLE 7-5: Cost Analysis - Alternative 7 - Plants 1, 2 and 3

Description	1990-2000		2000-2010		2010-SAT	
	Capital	Operation & Maintenance	Capital	Operation & Maintenance	Capital	Operation & Maintenance
Reclamation Plant 1						
Capacity 6.0 mgd	7,200	344	1,500	396	1,500	448
7.5 mgd						
9.0 mgd						
Reclamation Plant 2						
Capacity 2.0 mgd		198		198	2,500	465
2.0 mgd						
5.0 mgd						
(Primary)						
Treatment Plant 3						
Land	60					
Capacity 4.0 mgd	4,800	148	1,000	170	8,000	438
Solids Handling #1					1,000	191
Solids Handling #2					4,000	
SUBTOTAL	12,060	690	2,500	769	17,000	1,542
Interceptors						
PDS	2,082	6	1,244	13		13
Y Lightning	630	2	1,255	5	1,887	11
San Pedro					5,512	16
Highway 90	615	2		2		2
Bella Vista			342	2		2
SA201	290	1		1		1
Sludge Line to #3	317	20		20		
Highway 90 Extended					311	
SUBTOTAL	15,914	721	5,341	807	24,710	1,587
Reclaimed Water System						
Pipelines	840	6	464	10		10
Pumping Station & Filters	560	288	140	376		376
SUBTOTAL	1,400	294	604	386	--	386
GRAND TOTAL	17,314	1,015	5,945	1,193	24,710	1,973

Lewis Springs wastewater treatment plant at site 3 would be constructed initially as a solids handling facility for reclamation Plant 1, but, beyond the year 2010 a 3 mgd treatment plant would be constructed together with solids handling facilities required by the 6 mgd plant at Plant 2.

Interceptors and Pipelines

The principal interceptors would be constructed as previously described under the Alternative 4 and 6. A sludge line would need to be constructed from Plant 1 to the Lewis Springs site to convey wastewater solids for stabilization and processing.

Reclaimed Water Systems

The reclaimed water system for this alternative is similar to those described previously under Alternatives 4 and 6.

ALTERNATIVE 8

Alternative 8 was included in the cost effective analysis at the request of the City and analyzes the possibility of constructing numerous smaller treatment plants utilizing oxidation ponds for secondary treatment at locations previously identified in Figure 6-3. The objective is to utilize as many existing facilities as possible and reduce the size of interceptors needed to convey the flow to treatment Plants 1 and 2. Facilities and costs are set forth in Table 7-6.

Plant 1 would be constructed as a reclamation plant with an initial capacity of 5 mgd rising to an ultimate of 7 mgd. Plant 2 would remain as a 2 mgd facility until 2010 beyond which the capacity would rise 3.5 mgd; solids handling facilities would be constructed to receive and stabilize solids discharged from the reclamation Plant 1.

The Golden Acres wastewater treatment plant would be expanded in increments from 1 to 5 mgd over the planning period while a 2.5 mgd pond system would be constructed at Garden Canyon, while San Pedro (in Section H0801) and Lewis Springs would have 1.5 mgd ponds. These facilities would be similar in size and appearance to the present Plant 2.

Interceptors

The principal interceptors would be reduced in size and cost as delineated in Table 7-6 due to interception of flow by the upstream wastewater treatment plants.

TABLE 7-6: Cost Analysis - Alternative 8 - Multiplant Configuration

Description	1990-2000		2000-2010		2010-SAT	
	Capital	Operation & Maintenance	Capital	Operation & Maintenance	Capital	Operation & Maintenance
Plant 1-Reclamation						
Capacity 5.0 mgd	6,000	326	1,200	344		
6.0 mgd						344
6.0 mgd						
Golden Acres						
Capacity 1.0 mgd	3,000	164	1,500	198	1,500	350
2.0 mgd						
3.0 mgd						
Plant 2, 2.0 mgd		198		148		148
Solids Handling Facility 2.0 mgd	4,000	139	800	198		198
Primary With Ponds 6.0 mgd					7,800	492
Garden Canyon 2.0 mgd					4,500	125
San Pedro 2.0 mgd					4,500	125
Lewis Spring 2.0 mgd					4,500	125
SUBTOTAL	13,000	827	3,500	888	22,800	1,907
Interceptors						
PDS	1,340	6	1,243	13		13
Y Lightning	340	1	591	4	1,887	10
SA201	290					
San Pedro Highway 90			324	2		2
Bella Vista	615	2		2		2
SA201	290	1		1		1
SUBTOTAL	15,875	837	5,658	910	24,687	1,935
Reclaimed Water System						
Pipelines	840	6	464	10		10
Pumping Station & Filters	560	288	140	376		376
SUBTOTAL	1,400	294	604	386	--	386
GRAND TOTAL	17,275	1,131	6,262	1,296	24,687	2,321

Reclaimed Water Systems

The reclaimed water system would be similar to other previous alternatives.

PRESENT WORTHS

Table 7-7 sets forth the present worth costs extracted from costs presented in Tables 7-2 through 7-6. Six present worth elements have been listed for each alternative together with the ranking in cost between each alternative.

TABLE 7-7: Present Worth Costs

		Present Worth ^a (1000's dollars)					
Alternative	Description	Conveyance/Treatment			With Reclamation		
		Capital ^b	Operation & Maintenance ^c	Total	Capital ^b	Operation & Maintenance ^c	Total
2	Single Plant at #2	13,931 (5)	4,589 (1)	18,520 (2)	15,369 (5)	7,310 (3)	22,679 (5)
4	Reclamation at #1 WTP at #2	13,802 (4)	5,694 (4)	19,496 (4)	14,816 (4)	7,706 (4)	22,522 (3)
6	WTP at #1 WTP at #3	13,436 (1)	4,939 (2)	18,375 (1)	14,450 (1)	7,028 (1)	21,478 (1)
7	RWTP at #1 WTP at #2 WTP at #3	13,439 (2)	5,265 (3)	18,704 (3)	14,453 (2)	7,278 (2)	21,731 (2)
8	Multiplants	13,489 (3)	6,152 (5)	19,641 (5)	14,503 (3)	8,165 (5)	22,668 (4)

^a Present worth computed at 10 percent discount rate; figure in brackets represents the ranking of cost in each column.

^b Discounted 5 years for phase 1 costs, 15 years for phase 2 and 25 years for phase 3.

^c Present worth of a series of operation and maintenance costs rediscounted back to 1985; phase 1 10 year series, 5 year rediscount; phase 2, 10 year series 15 year rediscount; phase 3 25 year series 25 year rediscount.

The first group of present worth figures relate to conveyance and treatment without regard to reclamation while the second group include conveyance, treatment and reclamation. Under each cost group, capital, operation and maintenance and total present worths have been computed to assist with evaluation of alternatives and to assess where economies lie.

Basis of Costs

Capital costs were computed by discounting, at a 10 percent rate, the capital costs assumed to have been spent during years 1990, 2000 and 2010 representing 5, 15 and 25 year periods.

Present worth of operation and maintenance costs were developed at the present value of a uniform series ten years in length for phases 1 and 2, and, 25 years in length for phase 3; the present worths computed at each of those periods was then further discounted back to 1985.

Evaluation

For convenience in reviewing Table 7-7 each cost is ranked on a columnar basis. Alternative 6 ranks first under every category with the exception of operation and maintenance costs under conveyance and treatment. Alternative 2 has the least expensive operation and maintenance costs due to the fact that

this facility would be operating as a single plant utilizing existing facilities to the maximum extent possible. Present worth capital costs however ultimately require more funds to be expended principally as a result of increasing the size of Charleston Road and Highway 90 interceptors.

Implementation of Alternative 6 would not preclude implementation of Alternatives 4, 7 and 8 at a future time when development beyond the year 2010 becomes more certain. Other advantages of Alternative 6 include:

- 1) More control over effluent quality since ponds would not be utilized during the first phase of plant expansion,
- 2) Reclaimed water would be less expensive to supply to potential customers west of Highway 92.
- 3) Plant 1, in its present form, could be retired and all wastewater flow redirected to Plant 2 while the new plant at site 1 was constructed. The wastewater flow from the city is at present approximately 1.6 mgd while the capacity of Plant 2 is 1.9 mgd. If construction of the new plant is delayed significantly interim treatment may prove difficult.
- 4) Plant 2 would be utilized to the maximum extent possible since this facility can cope with the estimated wastewater flow from the tributary area between the Pueblo del Sol and Y Lightning interceptors to a point in time well beyond the year 2010. At that time with a growth pattern throughout study area will be clearly defined and longer term goals can be more easily set.
- 5) Land upon which Plant 1 would be constructed is provided by the State of Arizona to the City for operation of wastewater treatment facilities. Abandonment of that site for this purpose would return the land to State control. On the other hand Plant 2 is constructed on land owned by the City of Sierra Vista and disposal of that land in the future would be at the City's discretion.

For long range planning, Alternative 6 appears the most cost effective however other goals, enumerated earlier in this Chapter, must be fully evaluated if public acceptance is to be gained. Assuming effluent quality goals are achieved the first goal is good public health/aesthetics; the second, cost effectiveness over the short term or twenty five year planning

period; the third, cost of reclaimed water systems; while the fourth is system flexibility.

Tables 7-8 and 7-9 document other selected present worth costs from cost Tables 7-2 through 7-6. Table 7-8 examines present worth costs with facilities beyond the year 2010 removed, since development beyond 2010 is uncertain. The short term situation is therefore isolated.

TABLE 7-8: Present Worth Costs to 2010

		Present Worth ^a (1000's dollars)					
Alternative	Description	Conveyance/Treatment			With Reclamation		
		Capital ^b	Operation & Maintenance ^c	Total	Capital ^b	Operation & Maintenance ^c	Total
2	Single Plant at #2	11,285 (5)	2,905 (1)	14,190 (1)	12,722 (5)	5,183 (1)	17,905 (3)
4	Reclamation at #1 WWTP at #2	10,924 (1)	3,831 (3)	14,755 (2)	11,939 (1)	5,520 (2)	17,459 (1)
6	WWTP at #1 WWTP at #3	10,926 (1)	3,816 (2)	14,742 (3)	11,939 (1)	5,591 (3)	17,530 (2)
7	RWWTP at #1 WWTP at #2 WWTP at #3	11,159 (3)	3,936 (4)	15,095 (5)	12,173 (3)	5,626 (4)	17,799 (4)
8	Multiplants	11,210 (4)	4,530 (5)	15,740 (4)	12,225 (4)	6,220 (5)	18,445 (5)

- ^a Present worth computed at 10 percent discount rate; figure in brackets represents the ranking of cost in each column.
^b Discounted 5 years for phase 1 costs, 15 years for phase 2 and 25 years for phase 3.
^c Present worth of a series of operation and maintenance costs rediscounted back to 1985; phase 1 10 year series, 5 year rediscount; phase 2, 10 year series 15 year rediscount; phase 3 25 year series 25 year rediscount.

- Notes: 1. Alternatives 4 and 6 essentially same project expand plant 1 and utilize plant 2.
 2. Alternatives 4 and 6 least initial capital cost.
 3. Alternative 2 has least operation and maintenance cost if reclamation excluded.
 4. Alternative 2 has least total present worth for conveyance and treatment by \$550,000.
 5. Alternatives 4 and 6 have least total present worth including reclamation by \$375,000.
 6. Reclamation present worth has a significant effect on economics of alternatives.

Conveyance and treatment (CT) present worth costs are least on Alternative 2 by \$559,000 due to minimal operating and maintenance costs; capital costs of Alternative 2 only rank fifth. With reclamation costs added Alternative 2 sinks to third rank behind Alternatives 4 and 6 which up to year 2010 are essentially the same configuration. Costs saved on reclamation with Alternatives 4 and 6 instead of Alternative 2 amounts to \$375,000. Because conveyance and treatment goals rank ahead of reclamation, first consideration should be to minimize CT costs since reclamation costs will be recovered in any event through the sale of reclaimed water.

To further test the treatment plant cost effectiveness Table 7-9 was prepared which illustrates a cost preference for treating wastewater at Site 2. This table, of course, does not take into account conveyance costs.

TABLE 7-9: Present Worth Costs of Treatment Plants

Alternative	Description	Present Worth ^a (1000's dollars)					
		1990- 2010			2010 - Sat		
		Capital ^b	Operation & Maintenance ^c	Total	Capital ^b	Operation & Maintenance ^c	Total
2	Single Plant at #2	7,603 (1)	2,817 (1)	10,420 (1)	9,172 (1)	3,709 (1)	12,881 (1)
4	Reclamation at #1 WWTW at #2	13,436 (4)	3,756 (2)	17,192 (4)	15,236 (4)	4,827 (2)	20,063 (4)
6	WWTW at #1 WWTW at #3	8,049 (2)	3,756 (2)	11,805 (2)	9,849 (3)	4,827 (2)	14,676 (2)
7	RWWTW at #1 WWTW at #2 WWTW at #3	8,088 (3)	3,756 (4)	11,844 (3)	9,657 (2)	5,048 (4)	14,705 (3)
8	Multipplants	25,907 (5)	4,461 (5)	30,368 (5)	28,011 (5)	6,059 (5)	34,070 (5)

^a Present worth computed at 10 percent discount rate; figure in brackets represents the ranking of cost in each column.

^b Discounted 5 years for phase 1 costs, 15 years for phase 2 and 25 yrs for phase 3.

^c Present worth of a series of operation and maintenance costs rediscounted back to 1985; phase 1 10 year series, 5 year rediscount; phase 2, 10 year series 15 year rediscount; phase 3 25 year series 25 year rediscount.

Choice between Alternatives 2 and 6 is difficult therefore can be summarized thus: on one hand Alternative 6 is the most cost effective short term and long term solution for conveyance, treatment and reclamation while Alternative 2 is the most cost effective over the short term for conveyance and treatment only.

Short term cost savings are more easily visualized by reference to Table 7-10; \$532,000 dollars would be saved for CT over the next twenty five years with an Alternate 2 choice, although \$475,000 would be lost if reclamation were fully implemented. Reclamation costs may be regained through sale of reclaimed water, however profit margin would be reduced. Alternative 2 is therefore recommended for implementation.

TABLE 7-10: Cost Difference Savings up to 2010

Category	Alternative 1	Alternative 6
T	\$1,400,000	--
CT	\$ 532,000	--
CTR		\$475,000

T Treatment Only
 CT Conveyance and Treatment
 CTR Conveyance, Treatment and Reclamation

BEST APPARENT ALTERNATIVE

The best apparent alternative based on this analysis is Alternative 2 which includes construction of a new treatment plant at Site 2 while continuing operation of the present facilities. The economics of constructing a wastewater treatment plant at Lewis Springs, instead of a pumping station can be assessed at a future time. The following chapter describes the recommended plan in more detail and gives a schedule of capital improvements.

CHAPTER 8

RECOMMENDED PLAN AND CAPITAL IMPROVEMENT PROGRAM

This chapter presents the recommended plans for resolving existing sewerage system deficiencies and expanding both conveyance and treatment facilities to meet anticipated regional growth over the next twenty five years.

CITY SYSTEM

Based on studies set forth in Chapter 5 recommended capital improvements to the City System will be centered on augmentation of the central interceptor because of 1) lower present worth costs, 2) ability to segment the projects, and 3) lower unit costs for unsewered/undeveloped land. No inter-basin transfers will be made and wastewater flow generated within the central drainage basin will be directed into the Central Interceptor drainage system.

The following description provides a detailed inventory and cost of specific conveyance system improvements; Table 8-1 sets forth the Capital Improvement Program and construction phasing, while Figure 8-1 displays skeletal system improvements.

CENTRAL SYSTEM

The Central System will be augmented with seven parallel pipelines at segments SB014, SB017, SB020, SB022 a stub connection at SB025 into a new section of SA005, SA007 and SA009. The most critical elements are segments SB014 and SB017 immediately east of Moorman Avenue which are already at capacity. A 15 inch diameter augmentation sewer will be constructed during the 1985-1990 period from the junction at Moorman Avenue to the equestrian center.

This Central System augmentation will continue ten years later during the 1995-2000 period when SB020, SB022, SA005, SA007 and SA009 will be paralleled. The stub connection will preclude the necessity of augmenting sewer segments SB025 and SA006 -- a costly undertaking.

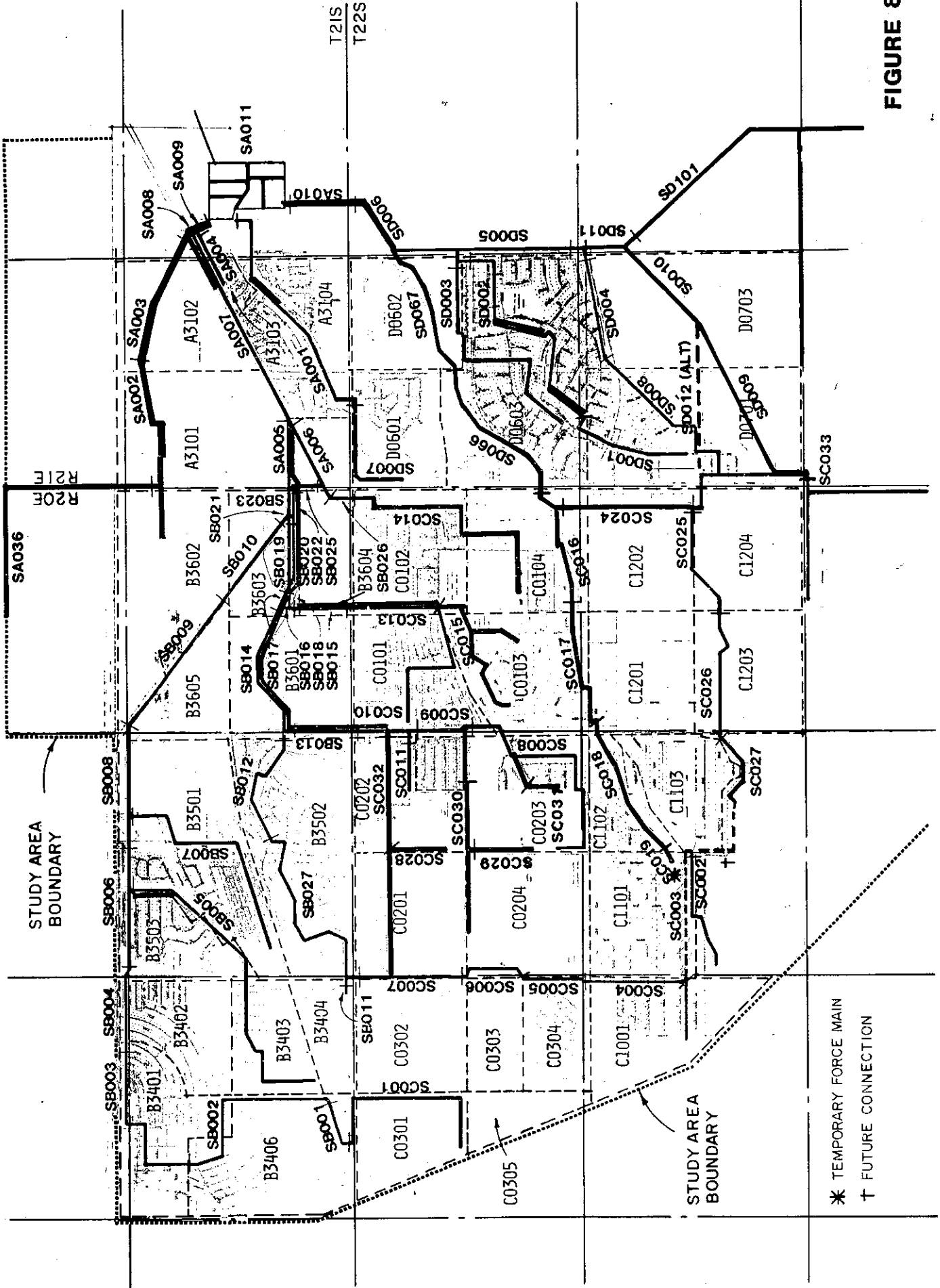


FIGURE 8-1

RECOMMENDED CITY CONVEYANCE SYSTEM

- * TEMPORARY FORCE MAIN
- + FUTURE CONNECTION

Table 8-1 Capital Improvement Plan—City System

Sever/Location	Diameter (inches)	Length (feet)	Trench Depth (feet)	Unit Cost (Dollars per foot)	Amount
		1985 - 1990			
Central Interceptor					
SB014	15	3200	10	50.06	160,200
SB017	15	600	10	50.06	30,000
Town and Country Interceptor					
SC024	10	2800	10	39.42	110,400
SD066	15	4000	12	54.76	224,500
SD067	15	3200	12	54.76	175,200
		1990 - 1995			
Town and Country Interceptor					
SC016	12	2100	12	47.00	98,700
SC017	10	2600	12	44.13	114,700
SC018	10	3100	10	39.42	122,200
Busby Drive					
SC029	8	1600	8	30.05	48,100
SC030	8	1600	10	34.01	54,400
		1995 - 2000			
Evergreen Drive					
SA001	8	600	10	34.01	20,400
Industrial Zone					
SA002	10	2700	10	39.42	100,400
Central Interceptor					
SA005	12	1700	10	42.30	71,900
SA007	10	1000	10	39.42	39,400
SA009	18	200	10	—	15,000
SB020	10	2200	10	39.42	86,700
SB022	10	500	10	39.42	19,700
Moorman Avenue					
SB013	15	1600	10	50.06	80,100
SC010	8	800	10	34.01	27,200
Wilcox Drive					
SC028	8	1500	8	30.05	45,100
SC032	12	5300	10	42.30	224,200
Pueblo del Sol					
SD002	8	4000	10	34.01	136,000
Village Meadows					
SB015	8	1400	10	34.01	47,600
SC013	8	2100	10	34.01	71,400
SC014	8	1200	10	34.01	40,800
SC015	8	2000	10	34.01	68,000
Palo Verde Drive					
SB005	8	700	10	34.01	23,800
		2010 - SAT			
Industrial Zone					
SA003	15	3000	10	50.06	150,200
SA036	8	7400	10	34.01	251,700
Pueblo del Sol					
SA010	18	1300	10	59.01	76,700
SD006	21	3400	10	78.42	266,600

TRUNK SYSTEM IMPROVEMENTS

During later periods, (as delineated in Table 8-1) and in accordance with anticipated land development and corresponding flow increases major trunk lines delivering flow into the Central System would need to be augmented. The most important of these is SC010 and SB013 in Moorman Avenue and SC013 and SB015 near the City Park. In Moorman Avenue, construction of the Wilcox diversion trunk will convey considerably more flow into SC010, and SB013 immediately downstream.

Village Meadows area, if provided with a collection system, will drain out through SC013 and SC014. Segment SC013 and segment immediately downstream SB015 will be paralleled with an 8 inch diameter sewer during the 1995-2000 time period.

The need to augment SA002 and SA003 will be predicated on development of state land in Section B36 immediately east of the City complex and provision of a conveyance system for the Ranchos Camelo area. The north half of Section B36 has a natural drainage swale on the curve of Highway 92 and drainage from the subbasin will need to be conveyed beneath the state highway to sewer segment SA002.

NEW SEWER CONSTRUCTION

Consistent with the rate of development within the Central Interceptor drainage basin Section C2 trunk sewers will comprise SC028, SC029, SC030, SC031, and SC032. Segment SC032, Wilcox Trunk, will extend to, and transfer flow from the Seventh Street Trunk, SC007. This will preclude the necessity of augmenting segments SB027 and SB012 on the Central Interceptor. As unsewered/undeveloped land west of Seventh and land north of Fry and west of Moorman is sewerred, customers in these areas will contribute to the cost of the Wilcox Trunk and augmentation of SB013 and SC010.

The Village Meadows area will be served with a small local sewer collection system discharging to trunk lines SC013 and SC014; no additional trunks or interceptors are needed in this area.

Sewer segments SD066, SD067, and SC024 may be constructed during the 1985 to 1990 period by developers whose land is tributary to these pipelines; however, if these sewers are not constructed during this time period, EPA construction grant funds may be available during the 1990 - 1995 period. These monies would assist with construction of SD066, SD067, SC016, SC017,

SC018, and SC019 -- the entire length of the Town and Country Interceptor. This will provide financial relief to the residents of Town and Country Estates, who, without the support of grant funds would need to fund a majority share of this pipeline.

The Summit sewer analysis showed that a strong case exists for conveying wastewater generated in this area to the Town and Country Interceptor. Principal factors for this choice are 1) less cost to the Summit developer, and 2) earlier payback on SC024, SD066 and SD067 because of planned development in the tributary area. While construction of trunk sewers across the Tenneco property and extending the PDS Interceptor will certainly advance the wastewater conveyance system as a whole, infilling the unsewered areas consolidates the system and assists with progressive growth of the City.

Finally, trunk sewer SA036 may be constructed beyond the year 2010 when the septic systems presently used in Rancho Carmelo become burdensome and expensive to maintain and operate.

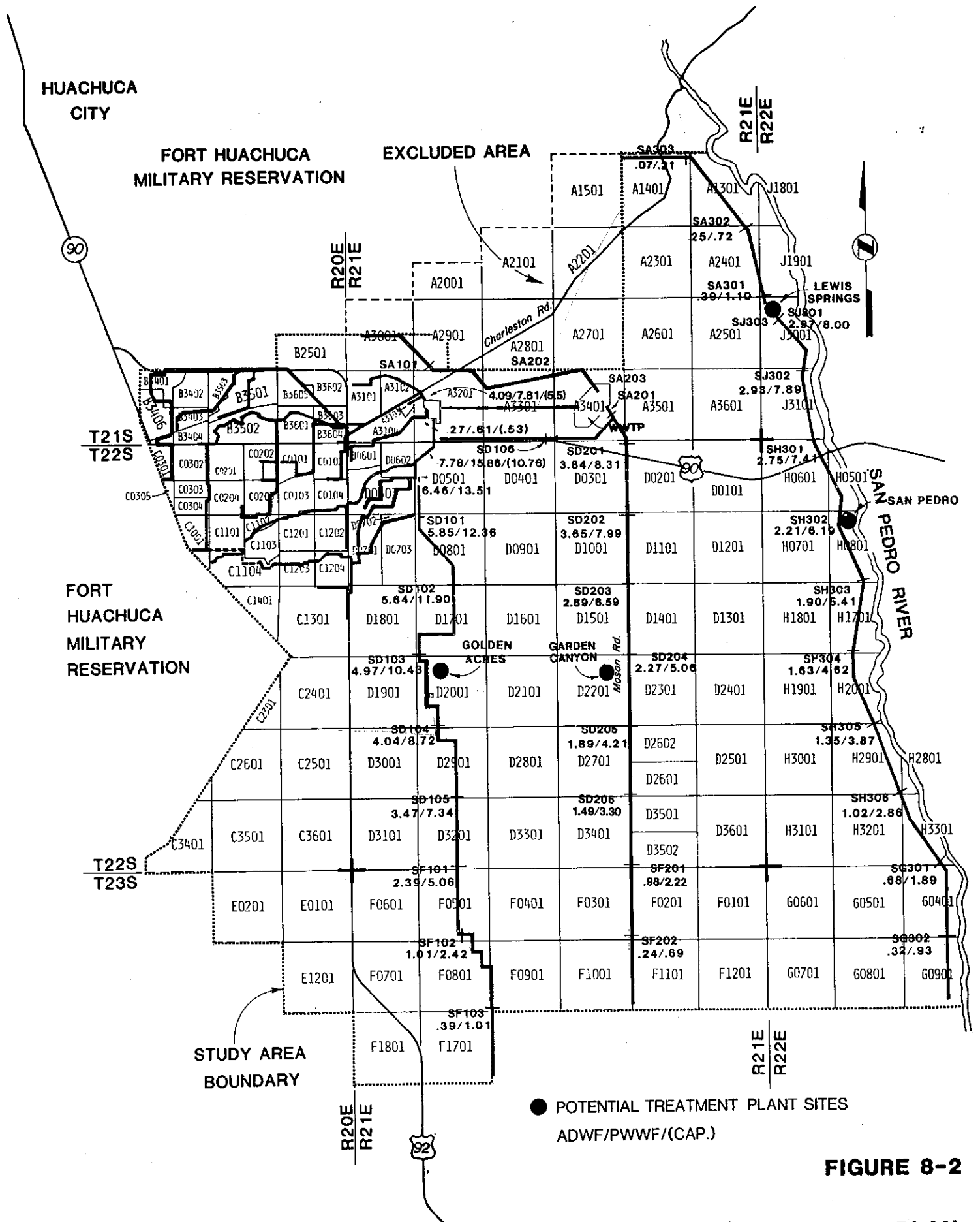
STUDY AREA CONVEYANCE AND TREATMENT

The area wide conveyance and treatment strategy employs one central wastewater treatment plant in Section A34 to which all interceptor sewers convey wastewater, and, from which reclaimed water will be distributed for irrigation and industrial re-use. Figure 8-2 depicts the overall plan; each interceptor is labeled with node points and tributary flow rates.

Principal interceptors include the Pueblo del Sol, Highway 90, Moson Road and Charleston supplemented with the present plant bypass. The PDS interceptor is the only pipeline not actually discharging flow directly to the wastewater treatment plant, rather, the PDS flow is received by the Highway 90 interceptor and conveyed east.

WASTEWATER FLOW RATES

Table 8-2 summarizes wastewater flow rates from the entire study area for both average and peak conditions; average flows are utilized to proportion the treatment plant while peak flows have been distributed amongst the various interceptors tributary to the wastewater treatment plant.



● POTENTIAL TREATMENT PLANT SITES
ADWF/PWWF/(CAP.)

FIGURE 8-2

RECOMMENDED MANAGEMENT PLAN

The most significant fact is the dramatic increase in wastewater flow rates to be anticipated over the next 25 years, more particularly, over the immediate 5 to 10 years. By 1995 approximately 5 mgd will be generated rising to 7.9 mgd at year 2000; at the end of the study period, year 2010, nearly 10 mgd will be tributary to Plant 1. Since the present plant capacity is 1.9 mgd additional treatment works must be planned in the immediate future to accommodate the sewage quantities.

Table 8-2 Wastewater Flow Rates^a

Year	Plant ^b		PDS	Hwy 90	Interceptors ^e		
	ADWF ^c	PWW ^d			Charleston	Bypass	Moson Rd.
1985	1.52	3.2	0.6	-	-	2.0	-
1990	4.2	9.82	4.2	4.3	3.5	2.0	0.02
1995	5.2	12.06	5.4	5.5	4.5	2.0	0.06
2000	7.9	17.8	8.2	8.8	6.1	2.0	0.9
2010	9.56	21.5	10.1	10.8	7.6	2.0	1.1
SAT ^f	17.7	38.3	16.2	17.7	9.6	2.0	9.0
SAT ^g	20.49	45.99					

^aFlow rates in million gallons daily (mgd).

^bFlows received at Plant 2.

^cAverage dry weather flow.

^dPeak wet weather flow.

^eFlows delivered to plant by each interceptor.

^fSaturation flow from area tributary to Plant 2.

^gSan Pedro tributary area added.

CONVEYANCE

The interceptors depicted schematically in Figure 8-2 remain substantially as shown in Figure 6-3 with the exception of the Moson Road interceptor which has replaced the Y Lightning. The following paragraphs briefly review the interceptors, a detailed inventory of which may be found in the capital improvement plan in Table 8-3.

Pueblo del Sol

The Pueblo del Sol interceptor will need to be augmented with a parallel pipe averaging 21 inches in diameter between Highway 90 and Camino del Norte. Flow rates in excess of 16 mgd are anticipated at saturation although flows of 10 mgd are anticipated at year 2010. Augmentations could therefore be delayed until that time.

Extending south beyond Camino del Norte the PDS line encompasses as much of the Tenneco area as feasible with allowable lines and grades, skirts the head end of Garden Canyon and intercepts flow at the Golden Acres subdivision. Construction to this point is scheduled by year 2000 and to Nicksville area by the year 2010 in concert with anticipated development needs.

Table 8-3 Capital Improvement Plan—Study Area Interceptors

Sewer/Location	Sat. Flow (mgd)	Diameter (inches)	Length (feet)	Unit Cost ^a (dollars per foot)	Amount (dollars)
1990 - 2000					
Pueblo del Sol					
SD103	10.46	27	2520	135.14	340,600
SD103	10.46	27	1940	135.14	262,200
SD103	10.46	24	2140	121.34	259,700
SD102	11.49	24	6370	121.34	772,900
SD102	11.74	27	1550	135.14	209,500
SD101	12.11	27	5420	135.14	732,500
SD101	12.11	27	970	135.14	131,100
SD005	13.46	30	2640	148.29	391,500
Highway 90					
SD106	16.34	27	1700	110.02 ^c	187,000
SD106	16.51	24	1800	90.16 ^b	162,300
SD106	16.63	30	1550	132.44 ^d	205,300
SD106	16.90	33	2650	168.77	447,200
SD106	16.97	24	700	121.34	84,900
SD106	17.22	33	2700	151.15	408,100
SD106	17.72	33	5280	151.15	798,100
Moson Road					
SD201	9.03	30	5280	148.29	783,000
SA201	26.81	39	2600	187.95 ^d	487,000
Charleston					
SA202	8.56	27	13000	119.29 ^d	1,550,800
2000 - 2010					
Pueblo del Sol					
SF103	0.98	10	5280	51.34 ^d	271,100
SF102	2.39	12	2830	66.54	188,300
SF102	2.39	18	5090	86.73	441,500
SF101	5.03	18	2040	86.73	176,900
SD105	7.34	21	3240	106.14	343,900
SD104	8.70	27	6600	135.14	891,900
Moson Road					
SD203	7.10	27	5810	135.14	785,200
SD202	8.69	24	6600	121.34	800,800
2010 - Saturation					
Moson Road					
SF202	0.71	8	5280	38.04 ^c	200,900
SF201	2.30	15	2970	54.76 ^c	162,600
SF201	2.30	15	4950	54.76 ^c	271,100
SD206	3.60	18	5280	72.64 ^d	383,500
SD205	4.70	21	5280	106.14	560,400
SD204	5.67	24	5280	121.34	640,700
San Pedro					
SG302	0.93	12	5280	54.21 ^d	286,200
SG301	1.87	15	5540	61.97 ^d	343,300
SH306	2.65	18	6070	72.64 ^d	440,900
SH305	3.48	18	5810	72.64 ^d	422,000
SH304	4.15	21	5810	92.05 ^d	534,800
SH303	4.75	21	5540	92.05 ^d	510,000
SH302	5.34	21	5810	92.05 ^d	534,800
SH301	5.95	24	5810	105.49 ^d	612,900
SJ302	6.34	24	5540	105.49 ^d	584,400
SJ301	6.54	24	5200	105.49 ^d	548,500
SA303	0.21	8	5280	44.22 ^d	233,500
SA302	0.72	10	7090	51.34 ^d	364,000
SA301	1.10	12	5810	54.21 ^d	315,000
Charleston					
SA101	1.04	12	8000	54.21 ^d	433,700

^aAt average trench depth of 20 feet unless noted otherwise.

^bAverage trench depth 10 feet.

^cAverage trench depth 12 feet.

^dAverage trench depth 15 feet.

Moson Road

The Moson Road interceptor is favored over the Y Lightning interceptor for the recommended plan because the existing treatment plant in Section A34 will gradually diminish in importance upon construction of new treatment facilities. These facilities may be placed at a lower elevation with an inlet elevation averaging 4250 feet, thus, enabling the Moson Road interceptor to gravity flow into the plant inlet. As a result nearly five additional sections of land will be incorporated into the tributary area. Apart from development in sections adjacent to Highway 90 little activity is anticipated throughout the remainder of this tributary area until well beyond the year 2010.

Highway 90

The Highway 90 interceptor conveys flow from the Pueblo del Sol pipeline to Plant 2 while collecting tributary flow from sections to the south of Highway 90. At saturation nearly 18 mgd is anticipated down this pipeline, however at year 2010, 10.8 mgd will be generated in the upstream tributary area. Construction of this interceptor is scheduled for 1990-2000 period, in concert with treatment plant expansion.

Charleston

The Charleston interceptor has been planned to intercept flow on the northern boundary of the study area from Ranchos Camelo to Section A34. The alignment has been extended as far north as practical given the rather steep northeasterly topographical grades. Crossing the Charleston Highway the interceptor has been aligned parallel to Coyote Wash at which point flow, in excess of Plant bypass capacity of 2 mgd, may be intercepted from SA001 and SA009.

Flow tributary to Plant 1 may be transferred at the City's option through a combination of plant bypass and Charleston interceptor. This reduces the needed capacity of the Charleston interceptor from 11.6 to 9.6 mgd. The terminus of the Charleston interceptor falls to the east of the present Plant 2 ponds and enters the treatment plant inlet at an elevation of approximately 4250.

San Pedro

The San Pedro interceptor remains much as discussed in Chapter 6. Tributary flows will be conveyed north to a pumping station in Section J3001 from which wastewater will be transferred to Plant 2. At the time of need, studies may be conducted to determine the efficacy of constructing a second wastewater treatment plant at the location in place of the pumping station.

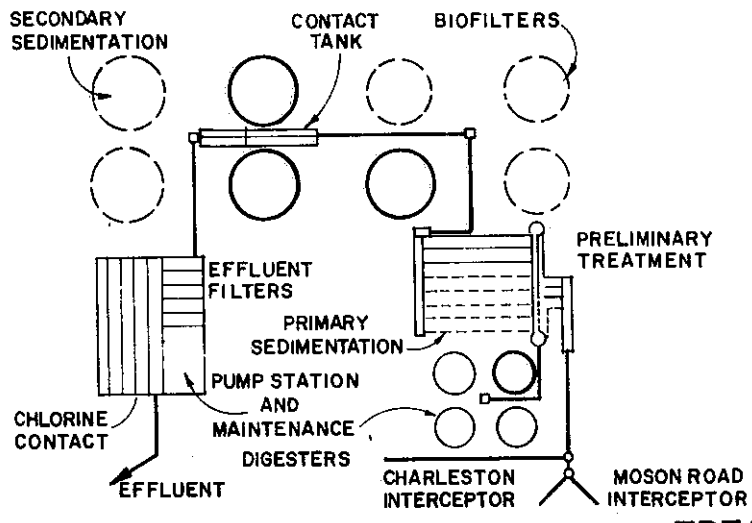
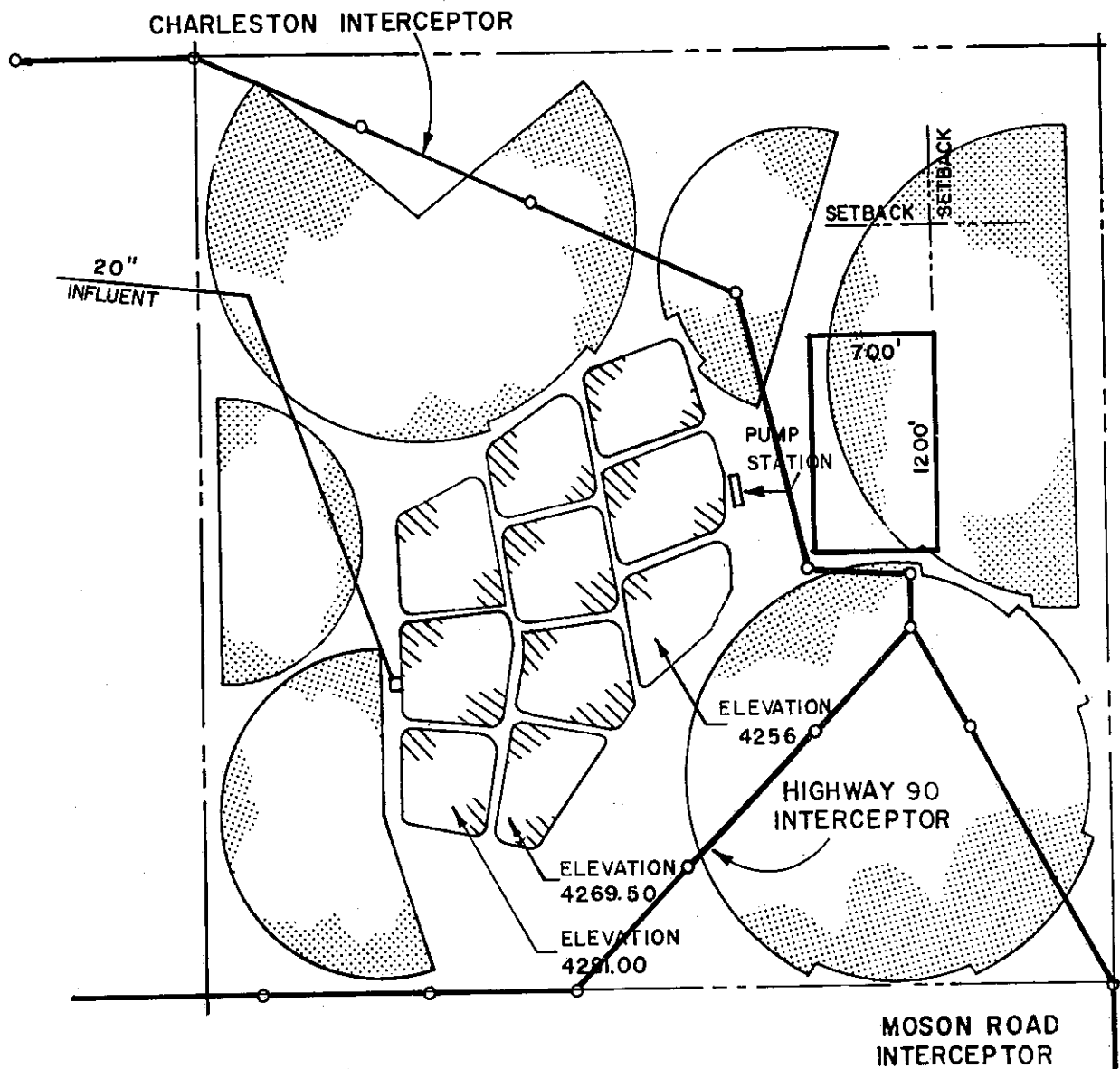
TREATMENT

Treatment of wastewater within the study area will be at a new treatment facility in Section A34. The present ponds will be retained and utilized as secondary treatment for as long as desired by the City consistent with end use and effluent quality required. If the present farming operations continue irrigation water will be drawn from the pond system.

Table 8-4 summarizes plant design data for a four phase construction in to a maximum nominal capacity of 20 mgd. Intermediate plant capacities of 5, 7.5 and 10 would be required at years 1995, 2000 and 2010 respectively. The construction sequencing has been arranged to take advantage of the existing facilities and defer investment.

Table 8-4 Plant Design Data

Parameter	Value			
	1995	2000	2010	SAT
Wastewater Flow, mgd	5	7.5	10	20
ADWF	8.6	14.5	17.2	46
PWWF				
Strength mg/l				
BOD, SS	200	200	200	200
Loads, lbs/day	8,340	12,510	16,680	33,360
Preliminary Treatment				
Mechanically cleaned bar screen				
Number	1	1	1	2
Manually cleaned screen	1	1	1	
Grit Removal Units				
Number	1	1	1	2
Type	Cyclonic	Cyclonic		
Preliminary Sedimentation Tanks				
Number	2	3	4	8
Type		Rectangular		
Length, ft	154	154	154	154
Width, ft	18	18	18	18
Overflow Rate, gpd/sf	900	900	900	900
Sludge Treatment				
Anaerobic Digesters				
Number	1	2	2	4
Diameter	60	60	60	60
SWD	32	32	32	32
Hydraulic detention time, days	39	33	25	28
Volatile solids loading lbs vs/acft/day				
Facultative sludge basin	1	1	1	2
Secondary Treatment				
Lagoons	5	4	2	4
Surface area, acres	84	84	80	80
Loading, BOD/acre/day	49	39	20	20
Mechanical aeration		Supplemental		
Biofilters				
Flow rate, mgd	--	3.5	8	16
Number	--	1	2	4
Diameter, ft	--	100	100	100
Organic load	--	9	20	20
lbs bod/1000 cuft/day				
Contact aeration tank				
Volume, cuft	--	7,500	15,000	30,000
Secondary Sedimentation Tanks				
Number	--	2	2	4
Diameter, feet	--	110	110	110
Over flow rate gpd/sf	--	184	421	421
Effluent Filters				
Filtration rate gpm/sf	--	3	3	3
Number	--	1	2	4
Length	--	60	60	60
Width	--	16	16	16
Chlorine Contact Tank				
Volume, cuft	--	20,000	49,000	80,000
Detention time PWWF, mins		30	30	30
Detention time ADWF, mins		50	50	50



PLANT DETAIL

FIGURE 8-3
TREATMENT PLANT LAYOUT

Conceptual design of the plant is centered around a modular construction system with process units proportioned to definite capacities and connected to hydraulic conduits sized for ultimate plant capacity. In this fashion incremental expansion may be implemented with little disruption to either liquid or solids streams. The plant site would be levelled with a slight topographic fall in concert with the required hydraulic profile.

Phase I

Phase I is anticipated within a five year period and construction should commence as soon as practicable. Under the Phase I concept the present pond system would be retained and utilized for secondary treatment. Since the capacity of the pond system is just under 2 mgd the organic loading to the ponds at higher flow rates must be significantly reduced. This will be achieved by constructing a complete primary and solids handling plant capable of providing preliminary and primary treatment, removal of sludge and up to 50 percent of the BOD before pumping to the pond system. Mechanical aeration will need to be provided in the first few ponds to provide for uniform dispersion of organics, provide sufficient re-aeration and minimize temperature stratification and dead spots. The ponds would be deepened to achieve the required detention time and BOD 1300 reduction. Effluent would be utilized for irrigation on the City's presently farmed land or additional lands acquired or leased.

As the flow increases to 4 mgd effluent quality may be anticipated to decline unless the ponds are further deepened and additional aeration devices installed.

Phase II

Phase II would be implemented in response to increases in wastewater flow rate or the need for higher quality effluent. This action would be dependent upon construction of a reclaimed water distribution system and sale of renovated water requiring a consistency high tertiary quality.

Under Phase II the primary plant constructed under Phase I would be expanded to 7.5 mgd capacity and augmented with secondary treatment facilities. In this concept 4 mgd or 50 percent of plant capacity would be treated and distributed as reclaimed water for irrigation or industrial re-use; if more reclaimed water customers were identified secondary treatment facilities could be constructed up to the maximum capacity of the plant flow.

The design data table indicates treatment process proportions for secondary treatment using the trickling filter/solids contact process, a complimentary set of processes that will ensure attainment of tertiary quality wastewater necessary for re-use. The process is not complex and is intended for operation using plant personnel of average skills. Effluent filters and chlorine contact tanks would be necessary to comply with Arizona Department of Health Service requirements for reclaimed water.

Phases III and IV

As the tributary flow increases additional process units will be required to treat the wastewater; and incremental plant expansion to 10 and ultimately 20 mgd or beyond will be necessary if the San Pedro system is incorporated.

If farming operations continue at Section 34 use of the present pond system at 4 mgd capacity should continue. At ultimate capacity, the primary portion of the plant would be rated at 20 mgd while secondary facilities (excluding the ponds) would have a capacity of 16 mgd.

Figure 8-3 illustrates the approximate location in which the treatment plant should be constructed in Section A34. Twenty acres would be needed, buffered from the boundaries by approximately 1000 feet, to construct the facilities proportioned in Table 8-4.

A site of 700 by 1200 feet would be satisfactory into which the Charleston, Highway 90 and Moson Road interceptors could terminate. The elevation of the interceptors is assumed at approximately 4250 feet. A schematic plant layout at the bottom of Figure 8-3 illustrates the plant concept. A small sludge lagoon would be constructed in one of the ponds to store residual solids under facultative conditions to eliminate odor and provide for long term solids stabilization.

CONVEYANCE AND TREATMENT COSTS

Treatment plant costs, included in the capital improvement program set forth in Table 8-5, indicate that as a minimum the City and private developers will be required to commit funds of up to \$16,082,000 for Phase I works over the next ten years. This cost includes \$8,000,000 for first phase improvements to the wastewater plant; \$1,138,000 for inner city conveyance augmentations and extensions

augmentations and extensions and up to \$6,94,000 on major interceptors. Interceptor construction includes Pueblo del Sol out to Golden Acres, Highway 90 from the PDS to Plant 2 and, the east portion of the Charleston interceptor.

During successive five year periods to year 2010 additional funds required amount to \$18,788,000 as extensions to the system are constructed and the wastewater plant is expanded as delineated in Table 8-5. Beyond year 2010 an expenditure of \$24,128,000 must be made to complete the plan for the western portion of the study area.

Table 8-5 Conveyance and Treatment Costs

Description	Cost ^b	
Phase I: 1985-1995		
City conveyance (1985-1990)		700
(1990-1995)		438
Interceptors: (PDS, Hwy 90, Charleston)		6944
Wastewater Plant (construct to 5 mgd)		
Primary Plant (5 mgd)	6500	
Lagoon modifications	1000	
Site works	500	8000
SUBTOTAL		16082
Phase II: 1995-2000		
City conveyance		1118
Interceptors (Moson Rd.)		1270
Wastewater Plant (extend to 7.5 mgd)		
Primary (2.5 mgd)	3250	
Secondary (4 mgd)	2800	
Site works	250	6300
SUBTOTAL		8688
Phase III: 2000-2010		
Interceptors (PDS, Moson Rd.)		3900
Wastewater Plant (extend 10 mgd)		
Primary (2.5 mgd)	3250	
Secondary 4 mgd)	2800	
Site works	150	6200
SUBTOTAL		10100
Phase IV: 2010-Saturation		
City conveyance		745
Interceptors		8383
Wastewater Plant (extend to 18 mgd)		15000
SUBTOTAL		24128
TOTAL		58998

^aCosts exclude San Pedro interceptors or Lewis Springs pump station.
^bCosts in thousands of dollars @ ENR 4000.

EFFLUENT DISPOSAL

Renovated wastewater whether from the pond system or treatment plant should be treated as a valuable resource and disposal should be carefully evaluated against opportunities for resale and cost recovery. Five alternate effluent disposal options have been identified. 1) Irrigation on farm lands as presently practiced by the City of Sierra Vista, 2) Distribution of renovated wastewater to industry or customers with large irrigation demands, 3) Subsurface injection in upstream aquifers as is presently conducted in a number of wastewater plants across the nation, 4) Combined with surface water and infiltrated to subsurface aquifers or used directly for irrigation or other as yet unidentified uses and 5) Discharge to washes. The latter

alternative would require and NPDES permit and consequent monitoring. These options should be studied in the near future since rapidly increasing flow could place the City in a position of discharging to the local wash.

FUTURE SYSTEM STUDY

Because this document and associated computer system are essentially dynamic, continuous updating will become necessary, particularly as study area characteristics become better understood and more clearly defined. The following represent principal areas of future endeavor, results from which will greatly assist with the updating process.

Domestic Flow Rate Monitoring

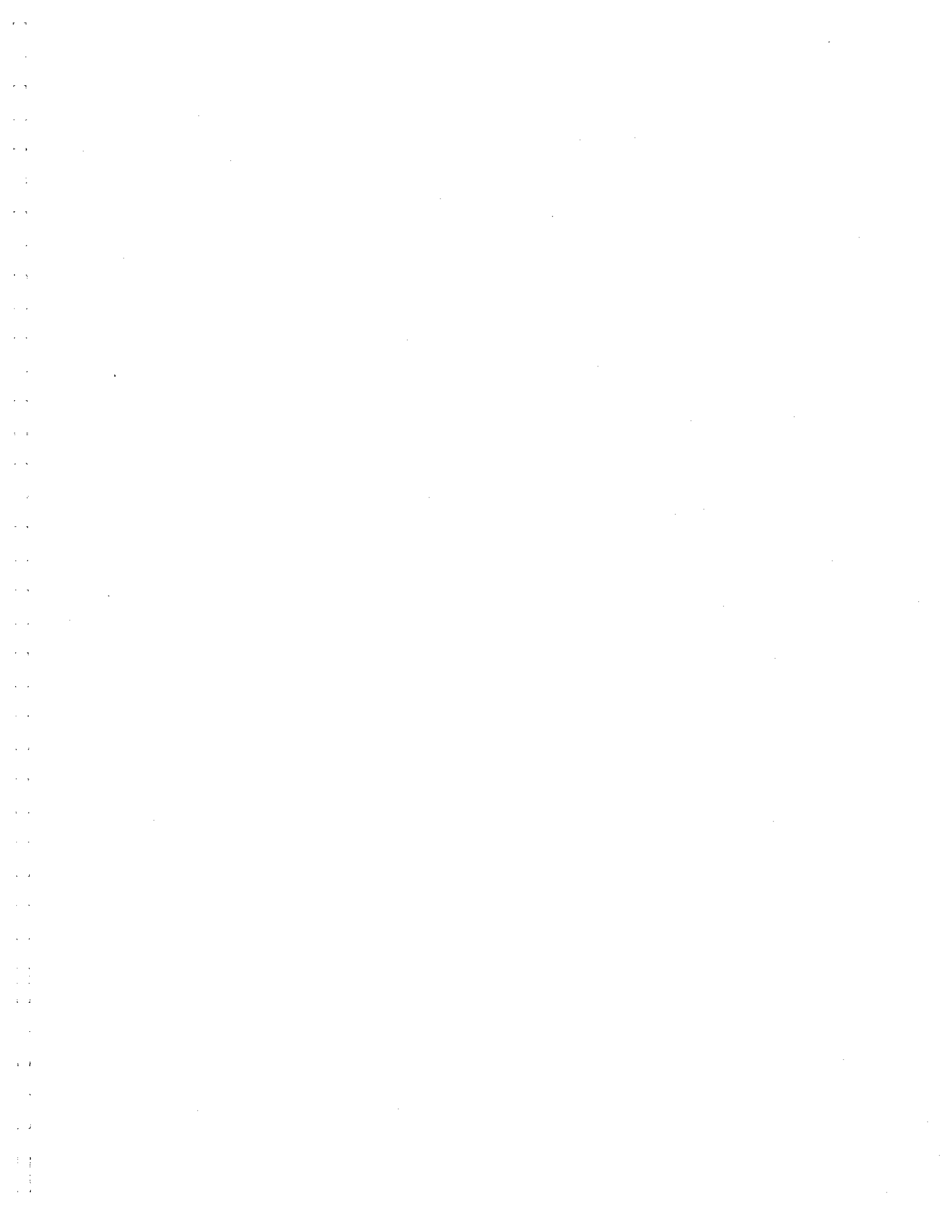
Domestic sewage flow rates have been shown to fluctuate in response to the value of the residence: homes with values in the lower third range typically produce flows of 60 gcd; those in the middle third 70 gcd while upper third value homes generate up to 110 gcd.

Computations in this study have assumed an average value of 75 gcd; however, the computer program can accept different unit contribution factors for each subbasin under study. Wastewater flow monitoring would therefore be helpful to calibrate the computer model and assign values for domestic, commercial, industrial, or point source generations.

Inventory of the Sewer System

An inventory of sewers would be helpful if kept on the SEWSYST model. At present only critical sections are stored; however, for each reach of sewer, segments between each manhole could be stored for each characteristic reach. This could ultimately be extended to all sewers in the system consistent with storage capacity on the IBM 38.

Information contained in ZONDATA could be displayed on a reproducible set of recently prepared topographic maps to illustrate zone boundaries more clearly and graphically depict the sewer system, development classifications, and concepts.



APPENDICES

Appendix 1 - References

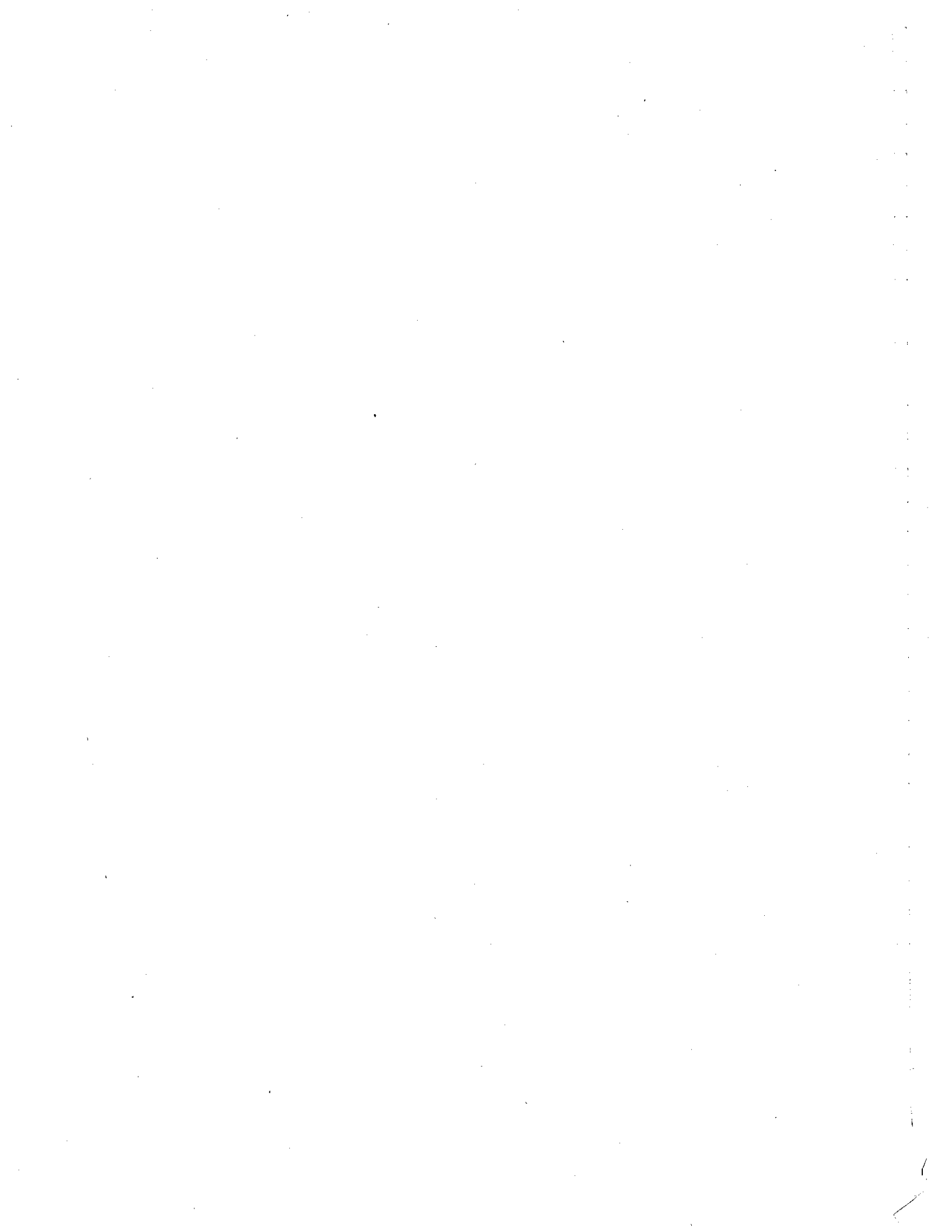
Appendix 2 - ZONDATA Printout

Appendix 3 - SEWSYST Printout

APPENDIX 1 - REFERENCES

REFERENCES

1. 208 Wastewater Management Plan, Southeastern Council of Governments, (SEAGO), 1978.
2. Facility Plan, Wastewater Management System for Sierra Vista, June 1978, Montgomery/Collins Consulting Engineers.
3. City of Sierra Vista Land Use Projection Maps for 1990, 1995, 2000 and 2005.
4. United States Census Report, 1980, U.S. Department of Commerce.
5. City of Sierra Vista Zoning Ordinance 91 as amended by Ordinance 309.
6. Impact Statement, 1983, Ft. Huachuca, Arizona.
7. Final Environmental Impact Statement on Tenneco Development Corporation Lands, May 1983, CM Engineering Associates.
8. Summit Master Plan
9. City of Sierra Vista Sewer Ordinance 675, May 24, 1984.
10. Concept Design Report - Industrial Outfall Sewer Design, December 6, 1982, Dooley Jones and Associates, Inc.
11. Instruction Manual of Sewer System Computer Software, December 5, 1984, Cheyne Owen, Ltd.
12. Sewer Master Plan Task IIIB, Sewer Input Data, October 22, 1984, Cheyne Owen, Ltd.
13. City of Mesa Wastewater Master Plan, 1983, Brown and Caldwell.
14. Tucson Metropolitan Wastewater Reuse Assessment, 1983, CH2M Hill/Rubel and Hager.
15. City of Tucson Improvements to the Rillito and Santa Cruz Interceptor Sewer Systems, 1973, Brown and Caldwell.
16. Annual Report 1983-1984, Pima County Wastewater Management, Department of Treatment Division.



APPENDIX 2 - ZONDATA PRINTOUT

ZONDATA1

GENERAL STUDY DATA

RUN 7-30-85 AT 16:25:47

PAGE 1

NUMBER OF ZONES: 97

STUDY TIME INCREMENT: 5

DATA BEGIN YEAR: 1985

STUDY BEGIN YEAR: 1985

DATA END YEAR: 2010

STUDY END YEAR: 2010

POPULATION DENSITIES
(PERSONS/ACRE)

TYPE D1: 3.50

RESIDENTIAL GALLONS/CAP/DAY: 75.00

TYPE D2: 6.60

COMMERCIAL GALLONS/ACRE/DAY: 1,000.00

TYPE D4: 13.50

INFILTRATION GALLONS/DAY: 200.00

TYPE D5: 15.20

TYPE D6: 17.10

TYPE D7: 18.60

TYPE D11: 18.00

TYPE D12: 23.00

TYPE D15: 25.80

TYPE D17: 25.00

TYPE D20: 27.50

ZONE NAME: A2901 DATA ACTIVE: 1990

PROJECTION MODE: LOGS

CURVE CONSTANT: .25

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	20.00	16.00	74.00	0.00	0.00	2.00	0.00	0.00
SATURATION ACRES	20.00	16.00	74.00	0.00	0.00	2.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
END ACRES	0.00	0.00	1.00	10.00	123.00	35.00	2.00	
SATURATION ACRES	0.00	0.00	1.00	12.00	125.00	35.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
1995	0.70	0.58	2.00	0.00	0.00	0.11	0.00	0.00
2000	15.09	11.94	59.18	0.00	0.00	1.32	0.00	0.00
2005	19.92	15.93	73.87	0.00	0.00	1.97	0.00	0.00
2010	20.00	16.00	74.00	0.00	0.00	2.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	4.25	155.75	160.00
1990	0.00	0.00	0.00	0.01	0.04	4.26	155.70	160.00
1995	0.00	0.00	0.06	0.40	3.85	5.21	150.93	160.00
2000	0.00	0.00	0.63	7.28	95.44	28.11	36.45	160.00
2005	0.00	0.00	0.98	9.94	122.62	34.91	2.47	160.00
2010	0.00	0.00	1.00	10.00	123.00	35.00	2.00	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.001
1990	0	0.000	0.000	0.001
1995	37	0.003	0.011	0.013
2000	972	0.080	0.199	0.224
2005	1,236	0.103	0.247	0.279
2010	1,239	0.103	0.248	0.280
SATURATION	1,239	0.105	0.254	0.286

ZONE NAME: A3001 DATA ACTIVE: 1990

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 320.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	64.00	24.00	110.00	0.00	0.00	3.00	0.00	0.00
SATURATION ACRES	64.00	24.00	110.00	0.00	0.00	3.00	0.00	0.00
	D15	D17	D20	CIA	DVA	HVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	320.00	320.00
END ACRES	0.00	0.00	1.00	15.00	217.00	63.00	40.00	
SATURATION ACRES	0.00	0.00	1.00	55.00	257.00	63.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	12.80	4.80	22.00	0.00	0.00	0.60	0.00	0.00
1995	25.60	9.60	44.00	0.00	0.00	1.20	0.00	0.00
2000	38.40	14.40	66.00	0.00	0.00	1.80	0.00	0.00
2005	51.20	19.20	88.00	0.00	0.00	2.40	0.00	0.00
2010	64.00	24.00	110.00	0.00	0.00	3.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	HVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	8.75	311.25	320.00
1990	0.00	0.00	0.20	3.00	43.40	19.60	257.00	320.00
1995	0.00	0.00	0.40	6.00	86.80	30.45	202.75	320.00
2000	0.00	0.00	0.60	9.00	130.20	41.30	148.50	320.00
2005	0.00	0.00	0.80	12.00	173.60	52.15	94.25	320.00
2010	0.00	0.00	1.00	15.00	217.00	63.00	40.00	320.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.002
1990	390	0.032	0.091	0.103
1995	780	0.065	0.165	0.188
2000	1,170	0.097	0.235	0.269
2005	1,561	0.129	0.302	0.347
2010	1,951	0.161	0.368	0.424
SATURATION	1,951	0.201	0.488	0.552

ZONE NAME: A3101 DATA ACTIVE: 1985 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 273.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	21.60	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	21.60	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	15.20	15.20	3.80	254.00	273.00
END ACRES	0.00	0.00	0.00	196.80	218.40	54.60	0.00	
SATURATION ACRES	0.00	0.00	0.00	196.80	218.40	54.60	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	4.32	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	8.64	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	12.96	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	17.28	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	21.60	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	15.20	15.20	3.80	254.00	273.00
1990	0.00	0.00	0.00	51.52	55.84	13.96	203.20	273.00
1995	0.00	0.00	0.00	87.84	96.48	24.12	152.40	273.00
2000	0.00	0.00	0.00	124.16	137.12	34.28	101.60	273.00
2005	0.00	0.00	0.00	160.48	177.76	44.44	50.80	273.00
2010	0.00	0.00	0.00	196.80	218.40	54.60	0.00	273.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.015	0.046	0.049
1990	58	0.056	0.170	0.184
1995	117	0.097	0.294	0.318
2000	175	0.137	0.414	0.449
2005	233	0.178	0.535	0.579
2010	292	0.219	0.655	0.709
SATURATION	292	0.219	0.655	0.709

ZONE NAME: A3102 DATA ACTIVE: 1985

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 156.30

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	17.40	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	17.40	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	6.80	6.80	1.70	147.80	156.30
END ACRES	0.00	0.00	0.00	107.60	125.00	31.30	0.00	
SATURATION ACRES	0.00	0.00	0.00	107.60	125.00	31.30	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	3.48	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	6.96	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	10.44	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	13.92	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	17.40	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	6.80	6.80	1.75	147.75	156.30
1990	0.00	0.00	0.00	26.96	30.44	7.66	118.20	156.30
1995	0.00	0.00	0.00	47.12	54.08	13.57	88.65	156.30
2000	0.00	0.00	0.00	67.28	77.72	19.48	59.10	156.30
2005	0.00	0.00	0.00	87.44	101.36	25.39	29.55	156.30
2010	0.00	0.00	0.00	107.60	125.00	31.30	0.00	156.30

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.007	0.020	0.022
1990	63	0.032	0.098	0.105
1995	125	0.057	0.173	0.187
2000	188	0.081	0.246	0.266
2005	251	0.106	0.319	0.344
2010	313	0.131	0.391	0.422
SATURATION	313	0.131	0.391	0.422

ZONE NAME: A3103 DATA ACTIVE: 1985

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 22.70

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	18.20	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	18.20	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	18.20	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	18.20	4.50	0.00	22.70
END ACRES	0.00	0.00	0.00	0.00	18.20	4.50	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	18.20	4.50	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	18.20	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	18.20	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	18.20	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	18.20	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	18.20	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	18.20	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	18.20	4.50	0.00	22.70
1990	0.00	0.00	0.00	0.00	18.20	4.50	0.00	22.70
1995	0.00	0.00	0.00	0.00	18.20	4.50	0.00	22.70
2000	0.00	0.00	0.00	0.00	18.20	4.50	0.00	22.70
2005	0.00	0.00	0.00	0.00	18.20	4.50	0.00	22.70
2010	0.00	0.00	0.00	0.00	18.20	4.50	0.00	22.70

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	246	0.018	0.056	0.060
1990	246	0.018	0.056	0.060
1995	246	0.018	0.056	0.060
2000	246	0.018	0.056	0.060
2005	246	0.018	0.056	0.060
2010	246	0.018	0.056	0.060
SATURATION	246	0.018	0.056	0.060

ZONE NAME: A3104 DATA ACTIVE: 1985

PROJECTION MODE: DRI

CURVE CONSTANT: .75

TOTAL ACRES: 188.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	107.70	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	107.70	0.00	0.00	0.00	42.70	0.00
SATURATION ACRES	0.00	0.00	107.70	0.00	0.00	0.00	42.70	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	1.00	108.70	27.20	52.10	188.00
END ACRES	0.00	0.00	0.00	0.00	150.40	37.60	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	150.40	37.60	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	107.70	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	107.70	0.00	0.00	0.00	17.08	0.00
1995	0.00	0.00	107.70	0.00	0.00	0.00	28.09	0.00
2000	0.00	0.00	107.70	0.00	0.00	0.00	35.18	0.00
2005	0.00	0.00	107.70	0.00	0.00	0.00	39.75	0.00
2010	0.00	0.00	107.70	0.00	0.00	0.00	42.70	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	1.00	108.70	27.18	52.12	188.00
1990	0.00	0.00	0.00	0.60	125.38	31.35	31.27	188.00
1995	0.00	0.00	0.00	0.34	136.13	34.03	17.83	188.00
2000	0.00	0.00	0.00	0.18	143.06	35.77	9.17	188.00
2005	0.00	0.00	0.00	0.07	147.52	36.88	3.59	188.00
2010	0.00	0.00	0.00	0.00	150.40	37.60	0.00	188.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	1,454	0.110	0.253	0.281
1990	1,761	0.133	0.297	0.329
1995	1,960	0.147	0.325	0.359
2000	2,087	0.157	0.343	0.379
2005	2,170	0.163	0.355	0.391
2010	2,223	0.167	0.362	0.400
SATURATION	2,223	0.167	0.362	0.400

ZONE NAME: A3201 DATA ACTIVE: 1985

PROJECTION MODE: LOGS

CURVE CONSTANT: .90

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5				
	0.000	0.000	0.000	0.000	0.000				
	D1	D2	D4	D5	D6	D7	D11	D12	
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
END ACRES	64.60	144.60	0.00	0.00	0.00	0.00	0.00	0.00	
SATURATION ACRES	64.60	144.60	0.00	0.00	0.00	0.00	0.00	0.00	
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL	
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	57.90	582.10	640.00	
END ACRES	0.00	0.00	0.00	31.00	240.20	117.90	281.90		
SATURATION ACRES	0.00	0.00	0.00	312.90	522.10	117.90	0.00		

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00
1995	18.44	36.68	0.00	0.00	0.00	0.00	0.00	0.00
2000	64.28	144.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	64.60	144.60	0.00	0.00	0.00	0.00	0.00	0.00
2010	64.60	144.60	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	57.85	582.15	640.00
1990	0.00	0.00	0.00	0.04	0.16	57.89	581.95	640.00
1995	0.00	0.00	0.00	9.80	64.92	74.08	501.00	640.00
2000	0.00	0.00	0.00	30.82	239.10	117.63	283.27	640.00
2005	0.00	0.00	0.00	31.00	240.20	117.90	281.90	640.00
2010	0.00	0.00	0.00	31.00	240.20	117.90	281.90	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.012
1990	1	0.000	0.000	0.012
1995	307	0.033	0.096	0.124
2000	1,175	0.119	0.301	0.372
2005	1,180	0.120	0.302	0.374
2010	1,180	0.120	0.302	0.374
SATURATION	1,180	0.401	1.148	1.276

ZONE NAME: A3301 DATA ACTIVE: 1990

PROJECTION MODE: LOGS

CURVE CONSTANT: .90

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	83.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	141.20	254.50	0.00	19.50	0.00	0.00	0.00	0.00
SATURATION ACRES	141.20	254.50	0.00	19.50	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	56.90	140.50	35.10	464.40	640.00
END ACRES	0.00	0.00	39.20	64.40	518.80	103.80	17.40	
SATURATION ACRES	0.00	0.00	39.20	81.80	536.20	103.80	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	83.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	114.80	0.09	0.00	0.03	0.00	0.00	0.00	0.00
1995	131.29	59.27	0.00	6.56	0.00	0.00	0.00	0.00
2000	137.97	253.55	0.00	19.38	0.00	0.00	0.00	0.00
2005	140.37	254.50	0.00	19.50	0.00	0.00	0.00	0.00
2010	141.20	254.50	0.00	19.50	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	56.90	140.50	9.23	490.27	640.00
1990	0.00	0.00	0.04	61.26	176.21	18.15	445.63	640.00
1995	0.00	0.00	12.00	63.17	272.30	42.17	325.53	640.00
2000	0.00	0.00	38.99	63.96	513.84	102.56	23.60	640.00
2005	0.00	0.00	39.20	64.27	517.84	103.56	18.59	640.00
2010	0.00	0.00	39.20	64.40	518.80	103.80	17.40	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	293	0.079	0.235	0.265
1990	404	0.092	0.268	0.307
1995	1,281	0.159	0.414	0.477
2000	3,523	0.328	0.734	0.857
2005	3,545	0.330	0.738	0.862
2010	3,548	0.331	0.739	0.863
SATURATION	3,548	0.348	0.791	0.919

ZONE NAME: B2501 DATA ACTIVE: 1990

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 320.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .20

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	HNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	160.00	40.00	120.00	320.00
END ACRES	0.00	0.00	0.00	0.00	256.00	64.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	256.00	64.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	179.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	198.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	217.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	236.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	HNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	160.00	40.00	120.00	320.00
1990	0.00	0.00	0.00	0.00	179.20	44.80	96.00	320.00
1995	0.00	0.00	0.00	0.00	198.40	49.60	72.00	320.00
2000	0.00	0.00	0.00	0.00	217.60	54.40	48.00	320.00
2005	0.00	0.00	0.00	0.00	236.80	59.20	24.00	320.00
2010	0.00	0.00	0.00	0.00	256.00	64.00	0.00	320.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	112	0.008	0.029	0.069
1990	125	0.009	0.032	0.077
1995	139	0.010	0.035	0.084
2000	152	0.011	0.037	0.092
2005	166	0.012	0.040	0.099
2010	179	0.013	0.043	0.107
SATURATION	179	0.013	0.043	0.107

ZONE NAME: B3401 DATA ACTIVE: 1985

PROJECTION MODE: GEOM

CURVE CONSTANT: .25

TOTAL ACRES: 115.50

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	38.60	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	38.60	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	38.60	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	1.60	40.20	27.60	47.70	115.50
END ACRES	0.00	0.00	0.00	14.70	53.40	17.40	44.70	
SATURATION ACRES	0.00	0.00	0.00	59.40	98.10	17.40	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	38.60	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	38.60	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	38.60	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	38.60	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	38.60	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	38.60	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	1.60	40.20	14.10	61.20	115.50
1990	0.00	0.00	0.00	2.50	41.10	14.33	60.07	115.50
1995	0.00	0.00	0.00	3.91	42.51	14.68	58.32	115.50
2000	0.00	0.00	0.00	6.08	44.68	15.22	55.60	115.50
2005	0.00	0.00	0.00	9.46	48.06	16.07	51.37	115.50
2010	0.00	0.00	0.00	14.70	53.30	17.38	44.82	115.50

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	521	0.041	0.109	0.120
1990	521	0.042	0.112	0.123
1995	521	0.043	0.116	0.127
2000	521	0.045	0.122	0.134
2005	521	0.049	0.133	0.145
2010	521	0.054	0.148	0.162
SATURATION	521	0.098	0.282	0.306

ZONE NAME: B3402 DATA ACTIVE: 1985

PROJECTION MODE: DRI

CURVE CONSTANT: .75

TOTAL ACRES: 142.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	80.40	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	80.40	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	80.40	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	9.90	90.30	22.60	29.10	142.00
END ACRES	0.00	23.30	0.00	9.90	113.60	28.40	0.00	
SATURATION ACRES	0.00	23.30	0.00	9.90	113.60	28.40	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	80.40	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	80.40	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	80.40	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	80.40	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	80.40	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	80.40	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	9.90	90.30	22.58	29.12	142.00
1990	0.00	9.32	0.00	9.90	99.62	24.91	17.47	142.00
1995	0.00	15.33	0.00	9.90	105.63	26.41	9.96	142.00
2000	0.00	19.20	0.00	9.90	109.50	27.37	5.13	142.00
2005	0.00	21.69	0.00	9.90	111.99	28.00	2.01	142.00
2010	0.00	23.30	0.00	9.90	113.60	28.40	0.00	142.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	1,085	0.091	0.224	0.247
1990	1,318	0.109	0.260	0.285
1995	1,469	0.120	0.282	0.309
2000	1,565	0.127	0.297	0.324
2005	1,628	0.132	0.306	0.334
2010	1,668	0.135	0.312	0.340
SATURATION	1,668	0.135	0.312	0.340

ZONE NAME: B3403 DATA ACTIVE: 1985 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 86.40

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (NIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	59.30	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	59.30	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	59.30	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	9.80	69.10	17.30	0.00	86.40
END ACRES	0.00	0.00	0.00	9.80	69.10	17.30	0.00	
SATURATION ACRES	0.00	0.00	0.00	9.80	69.10	17.30	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	59.30	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	59.30	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	59.30	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	59.30	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	59.30	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	59.30	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	9.80	69.10	17.30	0.00	86.40
1990	0.00	0.00	0.00	9.80	69.10	17.30	0.00	86.40
1995	0.00	0.00	0.00	9.80	69.10	17.30	0.00	86.40
2000	0.00	0.00	0.00	9.80	69.10	17.30	0.00	86.40
2005	0.00	0.00	0.00	9.80	69.10	17.30	0.00	86.40
2010	0.00	0.00	0.00	9.80	69.10	17.30	0.00	86.40

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	1,067	0.090	0.221	0.239
1990	1,067	0.090	0.221	0.239
1995	1,067	0.090	0.221	0.239
2000	1,067	0.090	0.221	0.239
2005	1,067	0.090	0.221	0.239
2010	1,067	0.090	0.221	0.239
SATURATION	1,067	0.090	0.221	0.239

ZONE NAME: B3404 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 72.30

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	36.80	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	24.80	42.80	10.70	18.80	72.30
END ACRES	0.00	0.00	0.00	24.80	42.80	10.70	18.80	
SATURATION ACRES	0.00	0.00	0.00	24.80	61.60	10.70	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	24.80	42.80	10.70	18.80	72.30
1990	0.00	0.00	0.00	24.80	42.80	10.70	18.80	72.30
1995	0.00	0.00	0.00	24.80	42.80	10.70	18.80	72.30
2000	0.00	0.00	0.00	24.80	42.80	10.70	18.80	72.30
2005	0.00	0.00	0.00	24.80	42.80	10.70	18.80	72.30
2010	0.00	0.00	0.00	24.80	42.80	10.70	18.80	72.30

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	335	0.050	0.146	0.157
1990	335	0.050	0.146	0.157
1995	335	0.050	0.146	0.157
2000	335	0.050	0.146	0.157
2005	335	0.050	0.146	0.157
2010	335	0.050	0.146	0.157
SATURATION	684	0.076	0.206	0.220

ZONE NAME: B3405 DATA ACTIVE: 1985

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 16.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	8.00	8.00	2.00	6.00	16.00
END ACRES	0.00	0.00	0.00	12.80	12.80	3.20	0.00	
SATURATION ACRES	0.00	0.00	0.00	12.80	12.80	3.20	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	8.00	8.00	2.00	6.00	16.00
1990	0.00	0.00	0.00	8.96	8.96	2.24	4.80	16.00
1995	0.00	0.00	0.00	9.92	9.92	2.48	3.60	16.00
2000	0.00	0.00	0.00	10.88	10.88	2.72	2.40	16.00
2005	0.00	0.00	0.00	11.84	11.84	2.96	1.20	16.00
2010	0.00	0.00	0.00	12.80	12.80	3.20	0.00	16.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.008	0.024	0.026
1990	0	0.009	0.027	0.029
1995	0	0.010	0.030	0.032
2000	0	0.011	0.033	0.035
2005	0	0.012	0.036	0.038
2010	0	0.013	0.038	0.042
SATURATION	0	0.013	0.038	0.042

ZONE NAME: B3406 DATA ACTIVE: 1985

PROJECTION MODE: GEOM

CURVE CONSTANT: .25

TOTAL ACRES: 200.50

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5				
	0.000	0.000	0.000	0.000	0.000				
	D1	D2	D4	D5	D6	D7	D11	D12	
BEGIN ACRES	0.00	0.00	15.40	47.80	0.00	0.00	0.00	0.00	
END ACRES	0.00	0.00	15.40	47.80	0.00	0.00	7.00	0.00	
SATURATION ACRES	0.00	0.00	15.40	47.80	0.00	0.00	7.00	0.00	
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL	
BEGIN ACRES	0.00	5.10	2.60	25.50	96.40	24.10	80.00	200.50	
END ACRES	0.00	12.50	2.00	23.90	108.60	28.60	63.30		
SATURATION ACRES	0.00	12.50	2.00	23.90	108.60	28.60	63.30		

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	15.40	47.80	0.00	0.00	0.00	0.00
1990	0.00	0.00	15.40	47.80	0.00	0.00	0.48	0.00
1995	0.00	0.00	15.40	47.80	0.00	0.00	1.23	0.00
2000	0.00	0.00	15.40	47.80	0.00	0.00	2.40	0.00
2005	0.00	0.00	15.40	47.80	0.00	0.00	4.20	0.00
2010	0.00	0.00	15.40	47.80	0.00	0.00	7.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	5.10	2.60	25.50	96.40	25.55	78.55	200.50
1990	0.00	5.61	2.56	25.39	97.24	25.76	77.50	200.50
1995	0.00	6.40	2.49	25.22	98.55	26.09	75.86	200.50
2000	0.00	7.63	2.39	24.95	100.57	26.59	73.33	200.50
2005	0.00	9.54	2.24	24.54	103.72	27.38	69.40	200.50
2010	0.00	12.50	2.00	23.90	108.60	28.60	63.30	200.50

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	1,133	0.111	0.279	0.303
1990	1,154	0.112	0.281	0.306
1995	1,185	0.114	0.286	0.311
2000	1,234	0.118	0.292	0.318
2005	1,310	0.123	0.302	0.329
2010	1,428	0.131	0.318	0.346
SATURATION	1,428	0.131	0.318	0.346

ZONE NAME: B3501 DATA ACTIVE: 1985 PROJECTION MODE: DRI

CURVE CONSTANT: .75

TOTAL ACRES: 215.80

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	15.50	24.20	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	10.70	84.50	0.00	0.00	4.50	0.00
SATURATION ACRES	0.00	0.00	10.70	84.50	0.00	0.00	47.70	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	4.00	0.00	0.00	0.00	43.70	21.50	150.60	215.80
END ACRES	4.10	23.20	0.80	7.70	135.50	37.10	43.20	
SATURATION ACRES	4.10	23.20	0.80	7.70	178.70	37.10	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	15.50	24.20	0.00	0.00	0.00	0.00
1990	0.00	0.00	13.58	48.32	0.00	0.00	1.80	0.00
1995	0.00	0.00	12.34	63.87	0.00	0.00	2.96	0.00
2000	0.00	0.00	11.54	73.89	0.00	0.00	3.71	0.00
2005	0.00	0.00	11.03	80.34	0.00	0.00	4.19	0.00
2010	0.00	0.00	10.70	84.50	0.00	0.00	4.50	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	4.00	0.00	0.00	0.00	43.70	14.15	157.95	215.80
1990	4.04	9.28	0.32	3.08	80.43	23.33	112.04	215.80
1995	4.07	15.26	0.53	5.07	104.09	29.25	82.46	215.80
2000	4.08	19.12	0.66	6.34	119.34	33.06	63.40	215.80
2005	4.09	21.60	0.74	7.17	129.17	35.52	51.11	215.80
2010	4.10	23.20	0.80	7.70	135.50	37.10	43.20	215.80

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	680	0.051	0.131	0.142
1990	1,295	0.100	0.236	0.257
1995	1,692	0.132	0.301	0.327
2000	1,947	0.152	0.342	0.372
2005	2,112	0.166	0.368	0.401
2010	2,218	0.174	0.384	0.419
SATURATION	2,995	0.232	0.493	0.536

ZONE NAME: B3502 DATA ACTIVE: 1985 PROJECTION MODE: DRI

CURVE CONSTANT: .75

TOTAL ACRES: 274.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (NIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	103.60	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	103.60	15.40	0.00	0.00	8.80	0.00
SATURATION ACRES	0.00	0.00	103.60	15.40	0.00	0.00	41.50	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	28.60	132.20	34.50	107.30	274.00
END ACRES	0.00	0.00	2.60	61.40	191.80	49.50	32.70	
SATURATION ACRES	0.00	0.00	2.60	61.40	224.50	49.50	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	103.60	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	103.60	6.16	0.00	0.00	3.52	0.00
1995	0.00	0.00	103.60	10.13	0.00	0.00	5.79	0.00
2000	0.00	0.00	103.60	12.69	0.00	0.00	7.25	0.00
2005	0.00	0.00	103.60	14.34	0.00	0.00	8.19	0.00
2010	0.00	0.00	103.60	15.40	0.00	0.00	8.80	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	28.60	132.20	34.60	107.20	274.00
1990	0.00	0.00	1.04	41.72	156.04	40.56	77.39	274.00
1995	0.00	0.00	1.71	50.18	171.41	44.40	58.19	274.00
2000	0.00	0.00	2.14	55.63	181.31	46.88	45.81	274.00
2005	0.00	0.00	2.42	59.14	187.69	48.47	37.84	274.00
2010	0.00	0.00	2.60	61.40	191.80	49.50	32.70	274.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	1,399	0.133	0.328	0.361
1990	1,584	0.161	0.395	0.434
1995	1,704	0.178	0.438	0.481
2000	1,781	0.189	0.465	0.511
2005	1,831	0.196	0.483	0.530
2010	1,843	0.201	0.494	0.543
SATURATION	2,451	0.245	0.578	0.633

ZONE NAME: B3503 DATA ACTIVE: 1985

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 150.20

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	89.00	3.00	0.00	0.00	7.40	0.00
END ACRES	0.00	0.00	93.80	3.70	0.00	0.00	7.40	0.00
SATURATION ACRES	0.00	0.00	93.80	3.70	0.00	0.00	7.40	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	7.00	0.00	106.40	26.40	17.40	150.20
END ACRES	0.00	0.00	8.70	7.90	121.50	27.20	1.50	
SATURATION ACRES	0.00	0.00	10.20	7.90	123.00	27.20	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	89.00	3.00	0.00	0.00	7.40	0.00
1990	0.00	0.00	89.96	3.14	0.00	0.00	7.40	0.00
1995	0.00	0.00	90.92	3.28	0.00	0.00	7.40	0.00
2000	0.00	0.00	91.88	3.42	0.00	0.00	7.40	0.00
2005	0.00	0.00	92.84	3.56	0.00	0.00	7.40	0.00
2010	0.00	0.00	93.80	3.70	0.00	0.00	7.40	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	7.00	0.00	106.40	23.43	20.37	150.20
1990	0.00	0.00	7.34	1.58	109.42	24.18	16.60	150.20
1995	0.00	0.00	7.68	3.16	112.44	24.94	12.83	150.20
2000	0.00	0.00	8.02	4.74	115.46	25.69	9.05	150.20
2005	0.00	0.00	8.36	6.32	118.48	26.45	5.27	150.20
2010	0.00	0.00	8.70	7.90	121.50	27.20	1.50	150.20

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	1,573	0.118	0.268	0.294
1990	1,597	0.121	0.276	0.303
1995	1,622	0.125	0.285	0.312
2000	1,646	0.128	0.293	0.321
2005	1,671	0.132	0.301	0.330
2010	1,695	0.135	0.310	0.339
SATURATION	1,736	0.138	0.316	0.346

ZONE NAME: B3601 DATA ACTIVE: 1985

PROJECTION MODE: LOGS

CURVE CONSTANT: .25

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	64.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	64.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	40.00	120.00	160.00
END ACRES	0.00	0.00	0.00	32.00	96.00	64.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	32.00	96.00	64.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	1.78	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	50.88	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	63.88	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	64.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	40.00	120.00	160.00
1990	0.00	0.00	0.00	0.01	0.02	40.01	119.97	160.00
1995	0.00	0.00	0.00	1.02	2.80	40.70	116.50	160.00
2000	0.00	0.00	0.00	24.69	75.57	58.89	25.53	160.00
2005	0.00	0.00	0.00	31.91	95.79	63.95	0.26	160.00
2010	0.00	0.00	0.00	32.00	96.00	64.00	0.00	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.008
1990	0	0.000	0.000	0.008
1995	24	0.003	0.010	0.018
2000	687	0.076	0.206	0.233
2005	862	0.097	0.256	0.288
2010	864	0.097	0.256	0.288
SATURATION	864	0.097	0.256	0.288

ZONE NAME: B3602 DATA ACTIVE: 1985

PROJECTION MODE: LOGS

CURVE CONSTANT: .25

TOTAL ACRES: 204.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	12.80	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	12.80	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	204.00	204.00
END ACRES	0.00	0.00	0.00	24.90	37.70	9.40	156.90	
SATURATION ACRES	0.00	0.00	146.30	24.90	184.00	20.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	9.44	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	12.74	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	12.80	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.02-	204.02	204.00
1990	0.00	0.00	0.00	0.01	0.02	0.02-	204.00	204.00
1995	0.00	0.00	0.00	0.83	1.32	0.31	202.37	204.00
2000	0.00	0.00	0.00	18.99	28.43	7.08	168.49	204.00
2005	0.00	0.00	0.00	24.82	37.56	9.36	157.08	204.00
2010	0.00	0.00	0.00	24.90	37.70	9.40	156.90	204.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	7	0.001	0.005	0.005
2000	144	0.030	0.093	0.100
2005	194	0.039	0.120	0.130
2010	195	0.039	0.121	0.130
SATURATION	4,218	0.341	0.710	0.751

ZONE NAME: B3603 DATA ACTIVE: 1985

PROJECTION MODE: LOGS

CURVE CONSTANT: .25

TOTAL ACRES: 80.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	16.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	16.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	40.00	40.00	80.00
END ACRES	0.00	0.00	0.00	32.00	48.00	32.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	32.00	48.00	32.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	11.94	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	15.93	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	16.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	20.00	60.00	80.00
1990	0.00	0.00	0.00	0.01	0.02	20.00	59.98	80.00
1995	0.00	0.00	0.00	1.02	1.60	20.40	58.00	80.00
2000	0.00	0.00	0.00	24.69	36.63	29.16	14.21	80.00
2005	0.00	0.00	0.00	31.91	47.84	31.96	0.20	80.00
2010	0.00	0.00	0.00	32.00	48.00	32.00	0.00	80.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.004
1990	0	0.000	0.000	0.004
1995	11	0.002	0.006	0.010
2000	215	0.041	0.124	0.137
2005	287	0.053	0.159	0.175
2010	288	0.054	0.159	0.175
SATURATION	288	0.054	0.159	0.175

ZONE NAME: B3604 DATA ACTIVE: 1985 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 80.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5				
	0.000	0.000	0.000	0.000	0.000				
	D1	D2	D4	D5	D6	D7	D11	D12	
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	D15	D17	D20	CIA	DVA	MVA	MUNICIPAL	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	64.00	64.00	16.00	0.00	0.00	80.00 ✓
END ACRES	0.00	0.00	0.00	64.00	64.00	16.00	0.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	64.00	64.00	16.00	0.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	64.00	64.00	16.00	0.00	80.00
1990	0.00	0.00	0.00	64.00	64.00	16.00	0.00	80.00
1995	0.00	0.00	0.00	64.00	64.00	16.00	0.00	80.00
2000	0.00	0.00	0.00	64.00	64.00	16.00	0.00	80.00
2005	0.00	0.00	0.00	64.00	64.00	16.00	0.00	80.00
2010	0.00	0.00	0.00	64.00	64.00	16.00	0.00	80.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.064	0.192	0.208
1990	0	0.064	0.192	0.208
1995	0	0.064	0.192	0.208
2000	0	0.064	0.192	0.208
2005	0	0.064	0.192	0.208
2010	0	0.064	0.192	0.208
SATURATION	0	0.064	0.192	0.208

ZONE NAME: B3605 DATA ACTIVE: 1985

PROJECTION MODE: LOGS

CURVE CONSTANT: .25

TOTAL ACRES: 116.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (HIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	26.40	26.40	56.60	33.00	116.00
END ACRES	0.00	0.00	0.00	26.40	52.80	63.20	0.00	
SATURATION ACRES	0.00	0.00	0.00	26.40	52.80	63.20	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	20.19	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	26.32	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	26.40	26.40	56.60	33.00	116.00
1990	0.00	0.00	0.00	26.40	26.41	56.60	32.99	116.00
1995	0.00	0.00	0.00	26.40	27.27	56.82	31.91	116.00
2000	0.00	0.00	0.00	26.40	46.59	61.65	7.76	116.00
2005	0.00	0.00	0.00	26.40	52.72	63.18	0.10	116.00
2010	0.00	0.00	0.00	26.40	52.80	63.20	0.00	116.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.026	0.079	0.096
1990	0	0.026	0.079	0.096
1995	13	0.027	0.083	0.100
2000	307	0.049	0.146	0.168
2005	400	0.056	0.163	0.186
2010	401	0.056	0.163	0.186
SATURATION	401	0.056	0.163	0.186

ZONE NAME: C0101 DATA ACTIVE: 1985 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 150.20

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.070	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	58.10	7.40	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	64.80	9.60	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	64.80	9.60	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	1.00	0.00	0.00	25.10	91.60	22.90	35.70	150.20
END ACRES	0.00	0.00	0.00	35.40	109.80	27.40	13.00	
SATURATION ACRES	0.00	0.00	4.00	44.40	122.80	27.40	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	58.10	7.40	0.00	0.00	0.00	0.00
1990	0.00	0.00	59.44	7.84	0.00	0.00	0.00	0.00
1995	0.00	0.00	60.78	8.28	0.00	0.00	0.00	0.00
2000	0.00	0.00	62.12	8.72	0.00	0.00	0.00	0.00
2005	0.00	0.00	63.46	9.16	0.00	0.00	0.00	0.00
2010	0.00	0.00	64.80	9.60	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	1.00	0.00	0.00	25.10	91.60	22.85	35.75	150.20
1990	0.80	0.00	0.00	27.16	95.24	23.76	31.20	150.20
1995	0.60	0.00	0.00	29.22	98.88	24.67	26.65	150.20
2000	0.40	0.00	0.00	31.28	102.52	25.58	22.10	150.20
2005	0.20	0.00	0.00	33.34	106.16	26.49	17.55	150.20
2010	0.00	0.00	0.00	35.40	109.80	27.40	13.00	150.20

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	923	0.164	0.455	0.478
1990	942	0.168	0.464	0.488
1995	962	0.171	0.473	0.498
2000	981	0.175	0.482	0.508
2005	1,001	0.178	0.492	0.518
2010	1,021	0.182	0.501	0.528
SATURATION	1,131	0.199	0.545	0.575

ZONE NAME: C0102 DATA ACTIVE: 1985

PROJECTION MODE: DRI

CURVE CONSTANT: .75

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	15.90	53.10	0.00	0.00	0.00	12.00	0.00
END ACRES	0.00	15.90	53.10	0.00	0.00	0.00	12.00	0.00
SATURATION ACRES	0.00	15.90	53.10	0.00	0.00	0.00	12.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	16.00	97.00	24.20	38.80	160.00
END ACRES	0.00	0.00	0.00	47.00	128.00	32.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	47.00	128.00	32.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	15.90	53.10	0.00	0.00	0.00	12.00	0.00
1990	0.00	15.90	53.10	0.00	0.00	0.00	12.00	0.00
1995	0.00	15.90	53.10	0.00	0.00	0.00	12.00	0.00
2000	0.00	15.90	53.10	0.00	0.00	0.00	12.00	0.00
2005	0.00	15.90	53.10	0.00	0.00	0.00	12.00	0.00
2010	0.00	15.90	53.10	0.00	0.00	0.00	12.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	16.00	97.00	24.25	38.75	160.00
1990	0.00	0.00	0.00	28.40	109.40	27.35	23.25	160.00
1995	0.00	0.00	0.00	36.39	117.39	29.35	13.26	160.00
2000	0.00	0.00	0.00	41.54	122.54	30.64	6.82	160.00
2005	0.00	0.00	0.00	44.86	125.86	31.47	2.67	160.00
2010	0.00	0.00	0.00	47.00	128.00	32.00	0.00	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	1,038	0.094	0.235	0.260
1990	1,038	0.106	0.272	0.300
1995	1,038	0.114	0.296	0.326
2000	1,038	0.119	0.312	0.343
2005	1,038	0.123	0.322	0.353
2010	1,038	0.125	0.328	0.360
SATURATION	1,038	0.125	0.328	0.360

ZONE NAME: C0103 DATA ACTIVE: 1990

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 169.80

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	120.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	121.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	121.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	9.50	129.90	32.50	7.40	169.80
END ACRES	0.00	0.00	0.00	9.50	131.10	38.70	0.00	
SATURATION ACRES	0.00	0.00	0.00	9.50	131.10	38.70	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	120.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	120.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	120.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	121.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	121.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	121.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	9.50	129.90	38.40	1.50	169.80
1990	0.00	0.00	0.00	9.50	130.14	38.46	1.20	169.80
1995	0.00	0.00	0.00	9.50	130.38	38.52	0.90	169.80
2000	0.00	0.00	0.00	9.50	130.62	38.58	0.60	169.80
2005	0.00	0.00	0.00	9.50	130.86	38.64	0.30	169.80
2010	0.00	0.00	0.00	9.50	131.10	38.70	0.00	169.80

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	421	0.041	0.116	0.149
1990	422	0.041	0.116	0.150
1995	423	0.041	0.116	0.150
2000	424	0.041	0.116	0.150
2005	425	0.041	0.116	0.150
2010	426	0.041	0.116	0.150
SATURATION	426	0.041	0.116	0.150

ZONE NAME: C0104 DATA ACTIVE: 1990

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	13.10	27.90	29.40	0.00	0.00	0.00	0.80	0.00
END ACRES	17.60	44.10	29.40	0.00	0.00	0.00	0.80	0.00
SATURATION ACRES	17.60	44.10	29.40	0.00	0.00	0.00	0.80	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	11.80	83.00	20.80	56.20	160.00
END ACRES	0.00	0.00	0.00	31.00	122.90	30.70	6.40	
SATURATION ACRES	0.00	0.00	6.40	31.00	129.30	30.70	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	13.10	27.90	29.40	0.00	0.00	0.00	0.80	0.00
1990	14.00	31.14	29.40	0.00	0.00	0.00	0.80	0.00
1995	14.90	34.38	29.40	0.00	0.00	0.00	0.80	0.00
2000	15.80	37.62	29.40	0.00	0.00	0.00	0.80	0.00
2005	16.70	40.86	29.40	0.00	0.00	0.00	0.80	0.00
2010	17.60	44.10	29.40	0.00	0.00	0.00	0.80	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	11.80	83.00	20.73	56.28	160.00
1990	0.00	0.00	0.00	15.64	90.98	22.72	46.30	160.00
1995	0.00	0.00	0.00	19.48	98.96	24.72	36.32	160.00
2000	0.00	0.00	0.00	23.32	106.94	26.71	26.35	160.00
2005	0.00	0.00	0.00	27.16	114.92	28.71	16.38	160.00
2010	0.00	0.00	0.00	31.00	122.90	30.70	6.40	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	641	0.060	0.160	0.180
1990	666	0.066	0.175	0.198
1995	690	0.071	0.191	0.215
2000	715	0.077	0.206	0.233
2005	739	0.083	0.222	0.250
2010	764	0.088	0.237	0.268
SATURATION	940	0.101	0.265	0.297

ZONE NAME: C0201 DATA ACTIVE: 1995

PROJECTION MODE: LOGS

CURVE CONSTANT: .25

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	49.80	14.20	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	49.80	14.20	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	22.60	22.60	5.70	131.70	160.00
END ACRES	0.00	0.00	0.00	53.00	117.00	29.20	13.80	
SATURATION ACRES	0.00	0.00	13.80	53.00	130.80	29.20	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
1995	0.00	0.00	1.46	0.53	0.00	0.00	0.00	0.00
2000	0.00	0.00	39.18	10.53	0.00	0.00	0.00	0.00
2005	0.00	0.00	49.69	14.13	0.00	0.00	0.00	0.00
2010	0.00	0.00	49.80	14.20	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	22.60	22.60	5.60	131.80	160.00
1990	0.00	0.00	0.00	24.93	24.95	6.19	128.87	160.00
1995	0.00	0.00	0.00	28.12	30.10	7.48	122.42	160.00
2000	0.00	0.00	0.00	32.75	82.46	20.56	56.98	160.00
2005	0.00	0.00	0.00	40.02	103.84	25.91	30.25	160.00
2010	0.00	0.00	0.00	53.00	117.00	29.20	13.80	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.023	0.068	0.073
1990	0	0.025	0.075	0.081
1995	28	0.030	0.092	0.099
2000	689	0.084	0.230	0.251
2005	886	0.106	0.284	0.310
2010	888	0.120	0.323	0.352
SATURATION	1,268	0.148	0.381	0.413

ZONE NAME: C0202 DATA ACTIVE: 1985 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 119.50

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	3.70	0.00	0.00	11.70	0.00
END ACRES	0.00	0.00	0.00	11.40	0.00	0.00	10.30	0.00
SATURATION ACRES	0.00	0.00	0.00	11.40	0.00	0.00	10.30	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	19.70	11.20	46.30	14.40	58.80	119.50
END ACRES	0.00	9.30	17.60	31.60	80.20	22.80	16.50	
SATURATION ACRES	0.00	9.30	34.10	31.60	96.70	22.80	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	3.70	0.00	0.00	11.70	0.00
1990	0.00	0.00	0.00	5.24	0.00	0.00	11.42	0.00
1995	0.00	0.00	0.00	6.78	0.00	0.00	11.14	0.00
2000	0.00	0.00	0.00	8.32	0.00	0.00	10.86	0.00
2005	0.00	0.00	0.00	9.86	0.00	0.00	10.58	0.00
2010	0.00	0.00	0.00	11.40	0.00	0.00	10.30	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	19.70	11.20	46.30	14.33	58.88	119.50
1990	0.00	1.86	19.28	15.28	53.08	16.02	50.40	119.50
1995	0.00	3.72	18.86	19.36	59.86	17.72	41.93	119.50
2000	0.00	5.58	18.44	23.44	66.64	19.41	33.45	119.50
2005	0.00	7.44	18.02	27.52	73.42	21.11	24.97	119.50
2010	0.00	9.30	17.60	31.60	80.20	22.80	16.50	119.50

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	809	0.072	0.185	0.197
1990	862	0.080	0.206	0.219
1995	915	0.088	0.226	0.242
2000	969	0.096	0.247	0.264
2005	1,022	0.104	0.267	0.286
2010	1,075	0.112	0.288	0.308
SATURATION	1,529	0.146	0.356	0.380

ZONE NAME: C0203 DATA ACTIVE: 1985

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 200.50

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	48.80	32.40	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	89.50	63.30	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	89.50	63.30	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	81.20	20.30	99.00	200.50
END ACRES	0.00	0.00	0.00	7.60	160.40	40.10	0.00	
SATURATION ACRES	0.00	0.00	0.00	7.60	160.40	40.10	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	48.80	32.40	0.00	0.00	0.00	0.00	0.00
1990	0.00	56.94	38.58	0.00	0.00	0.00	0.00	0.00
1995	0.00	65.08	44.76	0.00	0.00	0.00	0.00	0.00
2000	0.00	73.22	50.94	0.00	0.00	0.00	0.00	0.00
2005	0.00	81.36	57.12	0.00	0.00	0.00	0.00	0.00
2010	0.00	89.50	63.30	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	81.20	20.30	99.00	200.50
1990	0.00	0.00	0.00	1.52	97.04	24.26	79.20	200.50
1995	0.00	0.00	0.00	3.04	112.88	28.22	59.40	200.50
2000	0.00	0.00	0.00	4.56	128.72	32.18	39.60	200.50
2005	0.00	0.00	0.00	6.08	144.56	36.14	19.80	200.50
2010	0.00	0.00	0.00	7.60	160.40	40.10	0.00	200.50

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	759	0.057	0.143	0.164
1990	897	0.069	0.170	0.194
1995	1,034	0.081	0.196	0.224
2000	1,171	0.092	0.221	0.254
2005	1,308	0.104	0.247	0.283
2010	1,445	0.116	0.272	0.312
SATURATION	1,445	0.116	0.272	0.312

ZONE NAME: C0204 DATA ACTIVE: 1990

PROJECTION MODE: LOGS

CURVE CONSTANT: .25

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	41.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	41.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	43.40	43.40	10.80	105.80	160.00
END ACRES	0.00	0.00	0.00	61.20	102.20	57.80	0.00	
SATURATION ACRES	0.00	0.00	0.00	61.20	102.20	57.80	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	1.24	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	31.99	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	40.90	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	41.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	43.40	43.40	43.10	73.50	160.00
1990	0.00	0.00	0.00	44.70	44.71	43.43	71.86	160.00
1995	0.00	0.00	0.00	46.59	47.83	44.21	67.96	160.00
2000	0.00	0.00	0.00	49.41	81.40	52.60	26.01	160.00
2005	0.00	0.00	0.00	53.82	94.72	55.93	9.36	160.00
2010	0.00	0.00	0.00	61.20	102.20	57.80	0.00	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.043	0.130	0.148
1990	0	0.045	0.134	0.152
1995	17	0.048	0.144	0.163
2000	432	0.082	0.237	0.264
2005	554	0.095	0.271	0.301
2010	554	0.103	0.293	0.325
SATURATION	554	0.103	0.293	0.325

ZONE NAME: C0301 DATA ACTIVE: 1985

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 96.70

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	15.40	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	15.40	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	15.40	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	11.20	0.00	1.30	15.50	43.40	10.80	42.50	96.70
END ACRES	14.60	0.00	1.20	22.20	53.40	13.30	30.00	
SATURATION ACRES	14.60	0.00	21.20	32.20	83.40	13.30	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	15.40	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	15.40	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	15.40	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	15.40	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	15.40	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	15.40	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	11.20	0.00	1.30	15.50	43.40	10.80	42.50	96.70
1990	11.88	0.00	1.28	16.84	45.40	11.30	40.00	96.70
1995	12.56	0.00	1.26	18.18	47.40	11.80	37.50	96.70
2000	13.24	0.00	1.24	19.52	49.40	12.30	35.00	96.70
2005	13.92	0.00	1.22	20.86	51.40	12.80	32.50	96.70
2010	14.60	0.00	1.20	22.20	53.40	13.30	30.00	96.70

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	588	0.060	0.162	0.173
1990	605	0.062	0.169	0.180
1995	622	0.065	0.176	0.187
2000	639	0.067	0.182	0.195
2005	656	0.070	0.189	0.202
2010	673	0.073	0.196	0.209
SATURATION	1,223	0.124	0.312	0.332

ZONE NAME: C0302 DATA ACTIVE: 1985 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	36.40	0.00	0.00	0.00	19.90	0.00
END ACRES	0.00	0.00	35.80	0.00	0.00	0.00	19.90	0.00
SATURATION ACRES	0.00	0.00	35.80	0.00	0.00	0.00	19.90	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	2.20	0.00	0.00	24.90	83.40	20.90	55.70	160.00
END ACRES	2.20	0.00	0.00	45.60	103.50	25.90	30.60	
SATURATION ACRES	2.20	0.00	0.00	76.20	134.10	25.90	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	36.40	0.00	0.00	0.00	19.90	0.00
1990	0.00	0.00	36.28	0.00	0.00	0.00	19.90	0.00
1995	0.00	0.00	36.16	0.00	0.00	0.00	19.90	0.00
2000	0.00	0.00	36.04	0.00	0.00	0.00	19.90	0.00
2005	0.00	0.00	35.92	0.00	0.00	0.00	19.90	0.00
2010	0.00	0.00	35.80	0.00	0.00	0.00	19.90	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	2.20	0.00	0.00	24.90	83.40	20.88	55.72	160.00
1990	2.20	0.00	0.00	29.04	87.42	21.88	50.70	160.00
1995	2.20	0.00	0.00	33.18	91.44	22.89	45.68	160.00
2000	2.20	0.00	0.00	37.32	95.46	23.89	40.65	160.00
2005	2.20	0.00	0.00	41.46	99.48	24.89	35.63	160.00
2010	2.20	0.00	0.00	45.60	103.50	25.90	30.60	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	906	0.093	0.241	0.262
1990	905	0.097	0.254	0.276
1995	903	0.101	0.266	0.289
2000	902	0.105	0.278	0.302
2005	900	0.109	0.290	0.315
2010	898	0.113	0.302	0.328
SATURATION	898	0.144	0.394	0.426

ZONE NAME: C0303 DATA ACTIVE: 1990

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 80.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	32.00	0.00	26.20	0.00	0.00	0.00
END ACRES	0.00	0.00	32.00	0.00	31.40	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	32.00	0.00	31.40	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	2.20	60.40	15.10	4.50	80.00
END ACRES	0.00	0.00	0.00	0.60	64.00	16.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.60	64.00	16.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	32.00	0.00	26.20	0.00	0.00	0.00
1990	0.00	0.00	32.00	0.00	27.24	0.00	0.00	0.00
1995	0.00	0.00	32.00	0.00	28.28	0.00	0.00	0.00
2000	0.00	0.00	32.00	0.00	29.32	0.00	0.00	0.00
2005	0.00	0.00	32.00	0.00	30.36	0.00	0.00	0.00
2010	0.00	0.00	32.00	0.00	31.40	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	2.20	60.40	15.10	4.50	80.00
1990	0.00	0.00	0.00	1.88	61.12	15.28	3.60	80.00
1995	0.00	0.00	0.00	1.56	61.84	15.46	2.70	80.00
2000	0.00	0.00	0.00	1.24	62.56	15.64	1.80	80.00
2005	0.00	0.00	0.00	0.92	63.28	15.82	0.90	80.00
2010	0.00	0.00	0.00	0.60	64.00	16.00	0.00	80.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	880	0.068	0.169	0.184
1990	898	0.069	0.171	0.186
1995	916	0.070	0.173	0.188
2000	933	0.071	0.175	0.190
2005	951	0.072	0.177	0.192
2010	969	0.073	0.178	0.194
SATURATION	969	0.073	0.178	0.194

ZONE NAME: C0304 DATA ACTIVE: 1985

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 80.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	60.40	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	64.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	64.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	1.10	61.50	15.40	3.10	80.00
END ACRES	0.00	0.00	0.00	0.00	64.00	16.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	64.00	16.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	60.40	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	61.12	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	61.84	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	62.56	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	63.28	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	64.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	1.10	61.50	15.38	3.13	80.00
1990	0.00	0.00	0.00	0.88	62.00	15.50	2.50	80.00
1995	0.00	0.00	0.00	0.66	62.50	15.62	1.88	80.00
2000	0.00	0.00	0.00	0.44	63.00	15.75	1.25	80.00
2005	0.00	0.00	0.00	0.22	63.50	15.88	0.63	80.00
2010	0.00	0.00	0.00	0.00	64.00	16.00	0.00	80.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	815	0.062	0.156	0.171
1990	825	0.063	0.157	0.172
1995	835	0.063	0.157	0.173
2000	845	0.064	0.158	0.174
2005	854	0.064	0.159	0.175
2010	864	0.065	0.160	0.176
SATURATION	864	0.065	0.160	0.176

ZONE NAME: C0305 DATA ACTIVE: 1985 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 34.60

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	16.10	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	27.70	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	27.70	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	16.10	4.00	14.50	34.60
END ACRES	0.00	0.00	0.00	0.00	27.70	6.90	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	27.70	6.90	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	16.10	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	18.42	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	20.74	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	23.06	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	25.38	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	27.70	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	16.10	4.00	14.50	34.60
1990	0.00	0.00	0.00	0.00	18.42	4.58	11.60	34.60
1995	0.00	0.00	0.00	0.00	20.74	5.16	8.70	34.60
2000	0.00	0.00	0.00	0.00	23.06	5.74	5.80	34.60
2005	0.00	0.00	0.00	0.00	25.38	6.32	2.90	34.60
2010	0.00	0.00	0.00	0.00	27.70	6.90	0.00	34.60

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	290	0.022	0.064	0.068
1990	332	0.025	0.071	0.076
1995	373	0.028	0.079	0.084
2000	415	0.031	0.086	0.092
2005	457	0.034	0.093	0.100
2010	499	0.037	0.100	0.107
SATURATION	499	0.037	0.100	0.107

ZONE NAME: C1001 DATA ACTIVE: 1985 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 152.50

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	30.90	18.70	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	30.90	18.70	0.00	0.00	0.00	55.10	0.00
SATURATION ACRES	0.00	30.90	18.70	0.00	0.00	0.00	55.10	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	4.60	54.20	20.80	77.50	152.50
END ACRES	0.00	0.00	0.00	0.00	104.70	47.80	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	104.70	47.80	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	30.90	18.70	0.00	0.00	0.00	0.00	0.00
1990	0.00	30.90	18.70	0.00	0.00	0.00	11.02	0.00
1995	0.00	30.90	18.70	0.00	0.00	0.00	22.04	0.00
2000	0.00	30.90	18.70	0.00	0.00	0.00	33.06	0.00
2005	0.00	30.90	18.70	0.00	0.00	0.00	44.08	0.00
2010	0.00	30.90	18.70	0.00	0.00	0.00	55.10	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	4.60	54.20	35.17	63.13	152.50
1990	0.00	0.00	0.00	3.68	64.30	37.70	50.50	152.50
1995	0.00	0.00	0.00	2.76	74.40	40.22	37.88	152.50
2000	0.00	0.00	0.00	1.84	84.50	42.75	25.25	152.50
2005	0.00	0.00	0.00	0.92	94.60	45.28	12.62	152.50
2010	0.00	0.00	0.00	0.00	104.70	47.80	0.00	152.50

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	456	0.039	0.107	0.125
1990	655	0.053	0.137	0.158
1995	853	0.067	0.167	0.190
2000	1,051	0.081	0.195	0.220
2005	1,250	0.095	0.222	0.250
2010	1,448	0.109	0.249	0.280
SATURATION	1,448	0.109	0.249	0.280

ZONE NAME: C1101 DATA ACTIVE: 1990

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	128.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	128.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	128.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	128.00	32.00	0.00	160.00
END ACRES	0.00	0.00	0.00	0.00	128.00	32.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	128.00	32.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	128.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	128.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	128.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	128.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	128.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	128.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	128.00	32.00	0.00	160.00
1990	0.00	0.00	0.00	0.00	128.00	32.00	0.00	160.00
1995	0.00	0.00	0.00	0.00	128.00	32.00	0.00	160.00
2000	0.00	0.00	0.00	0.00	128.00	32.00	0.00	160.00
2005	0.00	0.00	0.00	0.00	128.00	32.00	0.00	160.00
2010	0.00	0.00	0.00	0.00	128.00	32.00	0.00	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	845	0.063	0.157	0.189
1990	845	0.063	0.157	0.189
1995	845	0.063	0.157	0.189
2000	845	0.063	0.157	0.189
2005	845	0.063	0.157	0.189
2010	845	0.063	0.157	0.189
SATURATION	845	0.063	0.157	0.189

ZONE NAME: C1102 DATA ACTIVE: 1987 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 68.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	45.20	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	45.20	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	45.20	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	45.20	11.30	11.50	68.00
END ACRES	0.00	0.00	0.00	0.00	45.20	11.30	11.50	
SATURATION ACRES	0.00	0.00	0.00	0.00	45.20	22.80	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	45.20	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	45.20	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	45.20	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	45.20	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	45.20	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	45.20	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	45.20	11.30	11.50	68.00
1990	0.00	0.00	0.00	0.00	45.20	11.30	11.50	68.00
1995	0.00	0.00	0.00	0.00	45.20	11.30	11.50	68.00
2000	0.00	0.00	0.00	0.00	45.20	11.30	11.50	68.00
2005	0.00	0.00	0.00	0.00	45.20	11.30	11.50	68.00
2010	0.00	0.00	0.00	0.00	45.20	11.30	11.50	68.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	298	0.022	0.065	0.077
1990	298	0.022	0.065	0.077
1995	298	0.022	0.065	0.077
2000	298	0.022	0.065	0.077
2005	298	0.022	0.065	0.077
2010	298	0.022	0.065	0.077
SATURATION	298	0.022	0.065	0.077

ZONE NAME: C1103 DATA ACTIVE: 1990

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 132.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
END ACRES	0.00	0.00	0.00	0.00	105.60	26.40	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	105.60	26.40	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
1990	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
1995	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
2000	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
2005	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
2010	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	697	0.052	0.133	0.160
1990	697	0.052	0.133	0.160
1995	697	0.052	0.133	0.160
2000	697	0.052	0.133	0.160
2005	697	0.052	0.133	0.160
2010	697	0.052	0.133	0.160
SATURATION	697	0.052	0.133	0.160

ZONE NAME: C1104 DATA ACTIVE: 1990 PROJECTION MODE: LOGS

CURVE CONSTANT: .75

TOTAL ACRES: 264.20

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	104.30	30.50	3.30	0.00	0.00	9.00	0.00
SATURATION ACRES	0.00	107.00	30.50	3.30	0.00	0.00	9.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	264.20	264.20
END ACRES	0.00	0.00	8.00	37.90	193.00	62.20	9.00	
SATURATION ACRES	0.00	0.00	8.00	40.00	197.80	66.40	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.04	0.02	0.01	0.00	0.00	0.01	0.00
1995	0.00	13.66	4.93	0.76	0.00	0.00	1.78	0.00
2000	0.00	102.58	29.86	3.19	0.00	0.00	8.76	0.00
2005	0.00	104.30	30.50	3.30	0.00	0.00	9.00	0.00
2010	0.00	104.30	30.50	3.30	0.00	0.00	9.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	13.95	250.25	264.20
1990	0.00	0.00	0.01	0.03	0.13	13.98	250.09	264.20
1995	0.00	0.00	1.61	5.90	28.64	21.11	214.45	264.20
2000	0.00	0.00	7.78	37.14	189.32	61.28	13.60	264.20
2005	0.00	0.00	8.00	37.90	192.99	62.20	9.02	264.20
2010	0.00	0.00	8.00	37.90	193.00	62.20	9.00	264.20

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.003
1990	1	0.000	0.000	0.003
1995	244	0.024	0.073	0.083
2000	1,500	0.150	0.369	0.419
2005	1,532	0.153	0.376	0.427
2010	1,532	0.153	0.376	0.427
SATURATION	1,550	0.156	0.385	0.437

ZONE NAME: C1201 DATA ACTIVE: 1990

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .20

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (NIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	100.00	25.00	35.00	160.00
END ACRES	0.00	0.00	0.00	0.00	128.00	32.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	128.00	32.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	111.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	116.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	122.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	100.00	25.00	35.00	160.00
1990	0.00	0.00	0.00	0.00	105.60	26.40	28.00	160.00
1995	0.00	0.00	0.00	0.00	111.20	27.80	21.00	160.00
2000	0.00	0.00	0.00	0.00	116.80	29.20	14.00	160.00
2005	0.00	0.00	0.00	0.00	122.40	30.60	7.00	160.00
2010	0.00	0.00	0.00	0.00	128.00	32.00	0.00	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	70	0.005	0.019	0.044
1990	74	0.006	0.020	0.046
1995	78	0.006	0.021	0.049
2000	82	0.006	0.022	0.051
2005	86	0.006	0.023	0.054
2010	90	0.007	0.024	0.056
SATURATION	90	0.007	0.024	0.056

ZONE NAME: C1202 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .20 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	61.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	61.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	4.40	4.40	1.10	154.50	160.00
END ACRES	0.00	0.00	0.00	66.90	128.00	32.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	66.90	128.00	32.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	12.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	24.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	36.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	48.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	61.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	4.40	4.40	1.10	154.50	160.00
1990	0.00	0.00	0.00	16.90	29.12	7.28	123.60	160.00
1995	0.00	0.00	0.00	29.40	53.84	13.46	92.70	160.00
2000	0.00	0.00	0.00	41.90	78.56	19.64	61.80	160.00
2005	0.00	0.00	0.00	54.40	103.28	25.82	30.90	160.00
2010	0.00	0.00	0.00	66.90	128.00	32.00	0.00	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.004	0.013	0.014
1990	9	0.018	0.053	0.060
1995	17	0.031	0.093	0.106
2000	26	0.044	0.133	0.152
2005	34	0.057	0.172	0.198
2010	43	0.070	0.212	0.244
SATURATION	43	0.070	0.212	0.244

ZONE NAME: C1203 DATA ACTIVE: 1990

PROJECTION MODE: LOGS

CURVE CONSTANT: .75

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	11.60	29.20	8.00	12.00	0.00	0.00	23.20	0.00
SATURATION ACRES	11.60	29.20	8.00	12.00	0.00	0.00	23.20	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
END ACRES	0.00	0.00	16.70	27.30	128.00	32.00	0.00	
SATURATION ACRES	0.00	0.00	16.70	27.30	128.00	32.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.02	0.02	0.01	0.02	0.00	0.00	0.02	0.00
1995	2.20	4.75	1.61	2.26	0.00	0.00	3.92	0.00
2000	11.31	28.58	7.78	11.70	0.00	0.00	22.69	0.00
2005	11.60	29.20	8.00	12.00	0.00	0.00	23.20	0.00
2010	11.60	29.20	8.00	12.00	0.00	0.00	23.20	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
1990	0.00	0.00	0.02	0.02	0.14	0.03	159.83	160.00
1995	0.00	0.00	2.98	4.49	22.22	5.55	132.23	160.00
2000	0.00	0.00	16.31	26.72	125.08	31.27	3.65	160.00
2005	0.00	0.00	16.70	27.30	127.99	32.00	0.02	160.00
2010	0.00	0.00	16.70	27.30	128.00	32.00	0.00	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	2	0.000	0.000	0.001
1995	248	0.023	0.069	0.075
2000	1,368	0.129	0.318	0.349
2005	1,400	0.132	0.324	0.356
2010	1,401	0.132	0.324	0.356
SATURATION	1,401	0.132	0.324	0.356

ZONE NAME: C1204 DATA ACTIVE: 1990

PROJECTION MODE: LOGS

CURVE CONSTANT: .75

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	86.90	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	86.90	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
END ACRES	0.00	0.00	0.00	41.10	128.00	32.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	41.10	128.00	32.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	11.74	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	85.42	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	86.90	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	86.90	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
1990	0.00	0.00	0.00	0.03	0.07	0.02	159.92	160.00
1995	0.00	0.00	0.00	6.31	18.06	4.52	137.42	160.00
2000	0.00	0.00	0.00	40.29	125.71	31.43	2.87	160.00
2005	0.00	0.00	0.00	41.10	127.99	32.00	0.01	160.00
2010	0.00	0.00	0.00	41.10	128.00	32.00	0.00	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	1	0.000	0.000	0.000
1995	159	0.018	0.058	0.062
2000	1,153	0.127	0.326	0.357
2005	1,173	0.129	0.331	0.363
2010	1,173	0.129	0.331	0.363
SATURATION	1,173	0.129	0.331	0.363

ZONE NAME: C1301 DATA ACTIVE: 1990

PROJECTION MODE: LOGS

CURVE CONSTANT: .75

TOTAL ACRES: 627.20

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	53.10	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	357.60	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	357.60	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	53.10	180.60	393.50	627.20
END ACRES	0.00	0.00	0.00	0.00	357.60	269.60	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	357.60	269.60	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	53.10	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	131.80	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	237.61	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	313.17	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	346.25	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	357.60	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	53.10	193.48	380.62	627.20
1990	0.00	0.00	0.00	0.00	131.80	213.15	282.25	627.20
1995	0.00	0.00	0.00	0.00	237.61	239.60	149.98	627.20
2000	0.00	0.00	0.00	0.00	313.17	258.49	55.54	627.20
2005	0.00	0.00	0.00	0.00	346.25	266.76	14.19	627.20
2010	0.00	0.00	0.00	0.00	357.60	269.60	0.00	627.20

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	350	0.026	0.075	0.124
1990	870	0.065	0.161	0.230
1995	1,568	0.118	0.267	0.363
2000	2,067	0.155	0.340	0.454
2005	2,285	0.171	0.371	0.493
2010	2,360	0.177	0.381	0.507
SATURATION	2,360	0.177	0.381	0.507

ZONE NAME: C1401 DATA ACTIVE: 1990 PROJECTION MODE: LOGS

CURVE CONSTANT: .75

TOTAL ACRES: 221.90

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .60

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	163.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	180.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	221.90	221.90
END ACRES	0.00	0.00	0.00	0.00	163.90	41.00	17.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	180.90	41.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	19.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	161.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	163.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	163.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.03	221.87	221.90
1990	0.00	0.00	0.00	0.00	0.05	0.04	221.81	221.90
1995	0.00	0.00	0.00	0.00	19.83	4.98	197.08	221.90
2000	0.00	0.00	0.00	0.00	161.43	40.38	20.08	221.90
2005	0.00	0.00	0.00	0.00	163.90	41.00	17.01	221.90
2010	0.00	0.00	0.00	0.00	163.90	41.00	17.00	221.90

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	42	0.003	0.011	0.016
2000	339	0.025	0.073	0.113
2005	344	0.026	0.074	0.115
2010	344	0.026	0.074	0.115
SATURATION	380	0.028	0.080	0.124

ZONE NAME: C2301 DATA ACTIVE: 1990

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 151.50

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .60

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	68.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	121.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	151.50	151.50
END ACRES	0.00	0.00	0.00	0.00	68.90	17.20	65.40	
SATURATION ACRES	0.00	0.00	0.00	0.00	121.20	30.30	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	13.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	27.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	41.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	55.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	68.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.03	151.53	151.50
1990	0.00	0.00	0.00	0.00	13.78	3.42	134.30	151.50
1995	0.00	0.00	0.00	0.00	27.56	6.86	117.07	151.50
2000	0.00	0.00	0.00	0.00	41.34	10.31	99.85	151.50
2005	0.00	0.00	0.00	0.00	55.12	13.76	82.63	151.50
2010	0.00	0.00	0.00	0.00	68.90	17.20	65.40	151.50

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	29	0.002	0.008	0.011
1995	58	0.004	0.016	0.023
2000	87	0.007	0.023	0.034
2005	116	0.009	0.030	0.044
2010	145	0.011	0.036	0.053
SATURATION	255	0.019	0.057	0.088

ZONE NAME: C2401 DATA ACTIVE: 1990

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 631.20

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	452.60	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	500.20	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	631.20	631.20
END ACRES	0.00	0.00	0.00	11.40	464.00	116.00	51.20	
SATURATION ACRES	0.00	0.00	0.00	15.00	515.20	116.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	90.52	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	181.04	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	271.56	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	362.08	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	452.60	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	631.20	631.20
1990	0.00	0.00	0.00	2.28	92.80	23.20	515.20	631.20
1995	0.00	0.00	0.00	4.56	185.60	46.40	399.20	631.20
2000	0.00	0.00	0.00	6.84	278.40	69.60	283.20	631.20
2005	0.00	0.00	0.00	9.12	371.20	92.80	167.20	631.20
2010	0.00	0.00	0.00	11.40	464.00	116.00	51.20	631.20

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	1,222	0.094	0.222	0.246
1995	2,444	0.188	0.407	0.453
2000	3,666	0.282	0.582	0.652
2005	4,888	0.376	0.752	0.845
2010	6,110	0.470	0.918	1.034
SATURATION	6,753	0.521	1.011	1.137

ZONE NAME: C2501 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	85.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	500.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	500.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	HVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	85.60	21.40	533.00	640.00
END ACRES	0.00	0.00	0.00	11.40	512.00	128.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	11.40	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	85.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	168.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	251.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	334.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	417.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	500.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	HVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	85.60	21.40	533.00	640.00
1990	0.00	0.00	0.00	2.28	170.88	42.72	426.40	640.00
1995	0.00	0.00	0.00	4.56	256.16	64.04	319.80	640.00
2000	0.00	0.00	0.00	6.84	341.44	85.36	213.20	640.00
2005	0.00	0.00	0.00	9.12	426.72	106.68	106.60	640.00
2010	0.00	0.00	0.00	11.40	512.00	128.00	0.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	300	0.022	0.066	0.087
1990	590	0.047	0.123	0.165
1995	881	0.071	0.176	0.240
2000	1,171	0.095	0.228	0.314
2005	1,462	0.119	0.279	0.386
2010	1,752	0.143	0.328	0.456
SATURATION	1,752	0.143	0.328	0.456

ZONE NAME: C2601 DATA ACTIVE: 2015

PROJECTION MODE: GEDM

CURVE CONSTANT: .30

TOTAL ACRES: 556.70

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	445.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	445.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	556.70	556.70
END ACRES	0.00	0.00	0.00	0.00	445.00	111.70	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	445.00	111.70	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	40.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	97.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	176.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	288.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	445.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.45	556.25	556.70
1990	0.00	0.00	0.00	0.00	40.39	10.55	505.76	556.70
1995	0.00	0.00	0.00	0.00	97.08	24.72	434.90	556.70
2000	0.00	0.00	0.00	0.00	176.64	44.61	335.45	556.70
2005	0.00	0.00	0.00	0.00	288.30	72.52	195.88	556.70
2010	0.00	0.00	0.00	0.00	445.00	111.70	0.00	556.70

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	141	0.011	0.035	0.045
1995	340	0.025	0.073	0.097
2000	618	0.046	0.120	0.165
2005	1,009	0.076	0.183	0.255
2010	1,558	0.117	0.266	0.377
SATURATION	1,558	0.117	0.266	0.377

ZONE NAME: C2701 DATA ACTIVE: 2015 PROJECTION MODE: GEOM

CURVE CONSTANT: .20

TOTAL ACRES: 32.10

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .20

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	32.10	32.10
END ACRES	0.00	0.00	0.00	0.00	25.70	6.40	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	25.70	6.40	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	3.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	7.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	14.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.02-	32.12	32.10
1990	0.00	0.00	0.00	0.00	1.27	0.29	30.54	32.10
1995	0.00	0.00	0.00	0.00	3.48	0.85	27.77	32.10
2000	0.00	0.00	0.00	0.00	7.33	1.81	22.96	32.10
2005	0.00	0.00	0.00	0.00	14.03	3.48	14.58	32.10
2010	0.00	0.00	0.00	0.00	25.70	6.40	0.00	32.10

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	1	0.000	0.000	0.001
1995	2	0.000	0.001	0.002
2000	5	0.000	0.001	0.003
2005	10	0.001	0.003	0.006
2010	18	0.001	0.005	0.011
SATURATION	18	0.001	0.005	0.011

ZONE NAME: C3401 DATA ACTIVE: 2015 PROJECTION MODE: GEOM

CURVE CONSTANT: .20

TOTAL ACRES: 403.60

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	96.10	64.10	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	188.20	125.40	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	403.60	403.60
END ACRES	0.00	0.00	0.00	0.00	160.20	40.00	203.40	
SATURATION ACRES	0.00	0.00	0.00	10.00	323.60	80.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	4.75	3.17	0.00	0.00	0.00	0.00	0.00
1995	0.00	13.01	8.68	0.00	0.00	0.00	0.00	0.00
2000	0.00	27.41	18.28	0.00	0.00	0.00	0.00	0.00
2005	0.00	52.47	35.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	96.10	64.10	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.05-	403.65	403.60
1990	0.00	0.00	0.00	0.00	7.92	1.93	393.75	403.60
1995	0.00	0.00	0.00	0.00	21.70	5.37	376.53	403.60
2000	0.00	0.00	0.00	0.00	45.69	11.37	346.54	403.60
2005	0.00	0.00	0.00	0.00	87.47	21.82	294.32	403.60
2010	0.00	0.00	0.00	0.00	160.20	40.00	203.40	403.60

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	74	0.006	0.020	0.022
1995	203	0.015	0.048	0.053
2000	428	0.032	0.088	0.100
2005	819	0.061	0.153	0.175
2010	1,500	0.112	0.257	0.297
SATURATION	2,935	0.230	0.492	0.572

ZONE NAME: C3501 DATA ACTIVE: 2015

PROJECTION MODE: GEOM

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	96.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	64.00	160.00	192.00	64.00	0.00	0.00	0.00	0.00
SATURATION ACRES	64.00	160.00	192.00	64.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MWA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	96.00	24.00	520.00	640.00
END ACRES	0.00	0.00	0.00	0.00	480.00	160.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	480.00	160.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	96.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	94.42	7.91	9.49	3.16	0.00	0.00	0.00	0.00
1995	91.67	21.67	26.00	8.67	0.00	0.00	0.00	0.00
2000	86.87	45.63	54.76	18.25	0.00	0.00	0.00	0.00
2005	78.53	87.36	104.83	34.94	0.00	0.00	0.00	0.00
2010	64.00	160.00	192.00	64.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MWA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	96.00	64.00	480.00	640.00
1990	0.00	0.00	0.00	0.00	114.97	68.74	456.28	640.00
1995	0.00	0.00	0.00	0.00	148.01	77.00	414.99	640.00
2000	0.00	0.00	0.00	0.00	205.52	91.38	343.10	640.00
2005	0.00	0.00	0.00	0.00	305.65	116.41	217.93	640.00
2010	0.00	0.00	0.00	0.00	480.00	160.00	0.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	336	0.025	0.072	0.104
1990	559	0.042	0.111	0.147
1995	947	0.071	0.173	0.218
2000	1,622	0.122	0.275	0.335
2005	2,798	0.210	0.443	0.527
2010	4,845	0.363	0.719	0.847
SATURATION	4,845	0.363	0.719	0.847

ZONE NAME: C3601 DATA ACTIVE: 1990

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	640.00
END ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	512.00	128.00	0.00	640.00
1990	0.00	0.00	0.00	0.00	512.00	128.00	0.00	640.00
1995	0.00	0.00	0.00	0.00	512.00	128.00	0.00	640.00
2000	0.00	0.00	0.00	0.00	512.00	128.00	0.00	640.00
2005	0.00	0.00	0.00	0.00	512.00	128.00	0.00	640.00
2010	0.00	0.00	0.00	0.00	512.00	128.00	0.00	640.00

YEAR	POPULATION	AVERAGE DRY		PEAK DRY		PEAK WET	
		WEATHER FLOW		WEATHER FLOW		WEATHER FLOW	
1985	1,792	0.134	0.300	0.428			
1990	1,792	0.134	0.300	0.428			
1995	1,792	0.134	0.300	0.428			
2000	1,792	0.134	0.300	0.428			
2005	1,792	0.134	0.300	0.428			
2010	1,792	0.134	0.300	0.428			
SATURATION	1,792	0.134	0.300	0.428			

ZONE NAME: D0301 DATA ACTIVE: 2015

PROJECTION MODE: GEOM

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	287.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	75.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	3,030	0.302	0.700	0.828

ZONE NAME: D0401 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	58.20	82.40	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	64.00	160.00	192.00	64.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	140.60	35.10	464.30	
SATURATION ACRES	0.00	0.00	0.00	0.00	480.00	160.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	11.64	16.48	0.00	0.00	0.00	0.00	0.00
1995	0.00	23.28	32.96	0.00	0.00	0.00	0.00	0.00
2000	0.00	34.92	49.44	0.00	0.00	0.00	0.00	0.00
2005	0.00	46.56	65.92	0.00	0.00	0.00	0.00	0.00
2010	0.00	58.20	82.40	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.05-	640.05	640.00
1990	0.00	0.00	0.00	0.00	28.12	6.98	604.90	640.00
1995	0.00	0.00	0.00	0.00	56.24	14.01	569.75	640.00
2000	0.00	0.00	0.00	0.00	84.36	21.04	534.60	640.00
2005	0.00	0.00	0.00	0.00	112.48	28.07	499.45	640.00
2010	0.00	0.00	0.00	0.00	140.60	35.10	464.30	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	299	0.022	0.066	0.073
1995	599	0.045	0.117	0.131
2000	898	0.067	0.165	0.187
2005	1,197	0.090	0.212	0.240
2010	1,497	0.112	0.257	0.292
SATURATION	4,845	0.363	0.719	0.847

ZONE NAME: D0501 DATA ACTIVE: 1990

PROJECTION MODE: LOGS

CURVE CONSTANT: .25

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	256.00	0.00	226.40	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	256.00	0.00	263.40	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	LDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	482.40	120.60	37.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	519.40	120.60	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00
1995	5.44	0.00	4.93	0.00	0.00	0.00	0.00	0.00
2000	214.16	0.00	188.63	0.00	0.00	0.00	0.00	0.00
2005	255.79	0.00	226.20	0.00	0.00	0.00	0.00	0.00
2010	256.00	0.00	226.40	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	LDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.05	0.01	639.94	640.00
1995	0.00	0.00	0.00	0.00	10.37	2.59	627.04	640.00
2000	0.00	0.00	0.00	0.00	402.79	100.70	136.52	640.00
2005	0.00	0.00	0.00	0.00	481.99	120.50	37.51	640.00
2010	0.00	0.00	0.00	0.00	482.40	120.60	37.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	86	0.006	0.023	0.026
2000	3,296	0.247	0.511	0.612
2005	3,949	0.296	0.600	0.720
2010	3,952	0.296	0.600	0.721
SATURATION	4,452	0.334	0.667	0.795

ZONE NAME: D0601 DATA ACTIVE: 1985 PROJECTION MODE: DRI

CURVE CONSTANT: .75

TOTAL ACRES: 125.60

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	30.30	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	60.20	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	60.20	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	1.90	18.70	51.00	12.70	61.90	125.60
END ACRES	0.00	0.00	1.90	38.40	100.50	25.10	0.00	
SATURATION ACRES	0.00	0.00	1.90	38.40	100.50	25.10	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	30.30	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	42.26	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	49.97	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	54.94	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	58.14	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	60.20	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	1.90	18.70	50.90	12.70	62.00	125.60
1990	0.00	0.00	1.90	26.58	70.74	17.66	37.20	125.60
1995	0.00	0.00	1.90	31.66	83.53	20.86	21.21	125.60
2000	0.00	0.00	1.90	34.93	91.77	22.92	10.91	125.60
2005	0.00	0.00	1.90	37.04	97.08	24.24	4.28	125.60
2010	0.00	0.00	1.90	38.40	100.50	25.10	0.00	125.60

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	461	0.053	0.150	0.163
1990	623	0.073	0.201	0.219
1995	727	0.086	0.233	0.254
2000	794	0.094	0.254	0.277
2005	837	0.100	0.267	0.291
2010	865	0.103	0.275	0.301
SATURATION	865	0.103	0.275	0.301

ZONE NAME: D0602 DATA ACTIVE: 1990 PROJECTION MODE: DRI

CURVE CONSTANT: .75

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	53.60	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	110.40	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	110.40	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	4.50	58.10	14.50	87.40	160.00
END ACRES	0.00	0.00	0.00	17.60	128.00	32.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	17.60	128.00	32.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	53.60	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	76.32	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	90.97	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	100.40	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	106.48	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	110.40	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	4.50	58.10	14.53	87.37	160.00
1990	0.00	0.00	0.00	9.74	86.06	21.52	52.42	160.00
1995	0.00	0.00	0.00	13.12	104.08	26.02	29.89	160.00
2000	0.00	0.00	0.00	15.29	115.70	28.92	15.38	160.00
2005	0.00	0.00	0.00	16.70	123.18	30.79	6.03	160.00
2010	0.00	0.00	0.00	17.60	128.00	32.00	0.00	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	724	0.059	0.151	0.166
1990	1,030	0.087	0.215	0.237
1995	1,228	0.105	0.256	0.282
2000	1,355	0.117	0.282	0.310
2005	1,438	0.125	0.298	0.329
2010	1,490	0.129	0.309	0.341
SATURATION	1,490	0.129	0.309	0.341

ZONE NAME: D0603 DATA ACTIVE: 1985

PROJECTION MODE: LOGS

CURVE CONSTANT: .25

TOTAL ACRES: 354.40

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	173.30	1.30	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	214.50	22.90	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	214.50	22.90	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	31.00	12.50	218.10	54.50	81.80	354.40
END ACRES	0.00	0.00	31.00	15.10	283.50	70.90	0.00	
SATURATION ACRES	0.00	0.00	31.00	15.10	283.50	70.90	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	173.30	1.30	0.00
1990	0.00	0.00	0.00	0.00	0.00	176.25	2.56	0.00
1995	0.00	0.00	0.00	0.00	0.00	180.63	4.92	0.00
2000	0.00	0.00	0.00	0.00	0.00	187.27	8.98	0.00
2005	0.00	0.00	0.00	0.00	0.00	197.62	15.15	0.00
2010	0.00	0.00	0.00	0.00	0.00	214.50	22.90	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	31.00	12.50	218.10	54.55	81.75	354.40
1990	0.00	0.00	31.00	12.69	222.50	55.65	76.25	354.40
1995	0.00	0.00	31.00	12.96	229.52	57.40	67.48	354.40
2000	0.00	0.00	31.00	13.38	240.64	60.18	53.58	354.40
2005	0.00	0.00	31.00	14.04	257.81	64.48	32.12	354.40
2010	0.00	0.00	31.00	15.10	283.50	70.90	0.00	354.40

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	4,099	0.320	0.657	0.712
1990	4,177	0.326	0.668	0.724
1995	4,301	0.336	0.686	0.743
2000	4,497	0.351	0.713	0.773
2005	4,801	0.374	0.755	0.819
2010	5,254	0.409	0.818	0.889
SATURATION	5,254	0.409	0.818	0.889

ZONE NAME: D0701 DATA ACTIVE: 1985 PROJECTION MODE: DRI

CURVE CONSTANT: .75

TOTAL ACRES: 316.70

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	13.80	4.70	0.00
END ACRES	0.00	0.00	0.00	56.40	0.00	13.80	4.70	0.00
SATURATION ACRES	0.00	0.00	0.00	56.40	0.00	13.80	4.70	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	13.30	31.80	7.90	277.00	316.70
END ACRES	0.00	0.00	0.00	178.50	253.40	63.30	0.00	
SATURATION ACRES	0.00	0.00	0.00	178.50	253.40	63.30	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	13.80	4.70	0.00
1990	0.00	0.00	0.00	22.56	0.00	13.80	4.70	0.00
1995	0.00	0.00	0.00	37.10	0.00	13.80	4.70	0.00
2000	0.00	0.00	0.00	46.47	0.00	13.80	4.70	0.00
2005	0.00	0.00	0.00	52.51	0.00	13.80	4.70	0.00
2010	0.00	0.00	0.00	56.40	0.00	13.80	4.70	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	13.30	31.80	7.90	277.00	316.70
1990	0.00	0.00	0.00	79.39	120.45	30.06	166.18	316.70
1995	0.00	0.00	0.00	121.98	177.58	44.35	94.77	316.70
2000	0.00	0.00	0.00	149.42	214.39	53.55	48.76	316.70
2005	0.00	0.00	0.00	167.10	238.11	59.48	19.11	316.70
2010	0.00	0.00	0.00	178.50	253.40	63.30	0.00	316.70

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	341	0.039	0.113	0.121
1990	684	0.131	0.369	0.400
1995	905	0.190	0.533	0.577
2000	1,048	0.228	0.637	0.691
2005	1,139	0.253	0.704	0.764
2010	1,199	0.268	0.747	0.811
SATURATION	1,199	0.268	0.747	0.811

ZONE NAME: D0702 DATA ACTIVE: 1985 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 24.30

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	19.40	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	19.40	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	19.40	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	19.40	4.90	0.00	24.30
END ACRES	0.00	0.00	0.00	0.00	19.40	4.90	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	19.40	4.90	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	19.40	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	19.40	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	19.40	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	19.40	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	19.40	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	19.40	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	19.40	4.90	0.00	24.30
1990	0.00	0.00	0.00	0.00	19.40	4.90	0.00	24.30
1995	0.00	0.00	0.00	0.00	19.40	4.90	0.00	24.30
2000	0.00	0.00	0.00	0.00	19.40	4.90	0.00	24.30
2005	0.00	0.00	0.00	0.00	19.40	4.90	0.00	24.30
2010	0.00	0.00	0.00	0.00	19.40	4.90	0.00	24.30

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	361	0.027	0.077	0.081
1990	361	0.027	0.077	0.081
1995	361	0.027	0.077	0.081
2000	361	0.027	0.077	0.081
2005	361	0.027	0.077	0.081
2010	361	0.027	0.077	0.081
SATURATION	361	0.027	0.077	0.081

ZONE NAME: D0703 DATA ACTIVE: 1990

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 299.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	221.60	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	221.60	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	299.00	299.00
END ACRES	0.00	0.00	0.00	17.60	239.20	59.80	0.00	
SATURATION ACRES	0.00	0.00	0.00	17.60	239.20	59.80	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	44.32	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	88.64	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	132.96	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	177.28	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	221.60	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	299.00	299.00
1990	0.00	0.00	0.00	3.52	47.84	11.96	239.20	299.00
1995	0.00	0.00	0.00	7.04	95.68	23.92	179.40	299.00
2000	0.00	0.00	0.00	10.56	143.52	35.88	119.60	299.00
2005	0.00	0.00	0.00	14.08	191.36	47.84	59.80	299.00
2010	0.00	0.00	0.00	17.60	239.20	59.80	0.00	299.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	598	0.048	0.128	0.140
1995	1,197	0.097	0.233	0.257
2000	1,795	0.145	0.332	0.368
2005	2,393	0.194	0.428	0.476
2010	2,992	0.242	0.522	0.582
SATURATION	2,992	0.242	0.522	0.582

ZONE NAME: D0801 DATA ACTIVE: 1990

PROJECTION MODE: LOGS

CURVE CONSTANT: .25

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	414.20	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	482.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	22.70	436.90	109.30	93.80	
SATURATION ACRES	0.00	0.00	0.00	30.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	8.01	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	351.77	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	413.94	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	414.20	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.08	639.92	640.00
1990	0.00	0.00	0.00	0.01	0.04	0.08	639.88	640.00
1995	0.00	0.00	0.00	0.77	8.78	2.27	628.95	640.00
2000	0.00	0.00	0.00	17.23	369.01	92.33	178.66	640.00
2005	0.00	0.00	0.00	22.62	436.57	109.22	94.22	640.00
2010	0.00	0.00	0.00	22.70	436.90	109.30	93.80	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	108	0.009	0.031	0.033
2000	4,749	0.373	0.758	0.850
2005	5,588	0.442	0.884	0.993
2010	5,592	0.442	0.885	0.994
SATURATION	6,507	0.518	1.025	1.153

ZONE NAME: D0901 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	64.00	160.00	192.00	64.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	85.30	554.70	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	85.30	554.70	
SATURATION ACRES	0.00	0.00	0.00	0.00	480.00	160.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	85.30	554.70	640.00
1990	0.00	0.00	0.00	0.00	0.00	85.30	554.70	640.00
1995	0.00	0.00	0.00	0.00	0.00	85.30	554.70	640.00
2000	0.00	0.00	0.00	0.00	0.00	85.30	554.70	640.00
2005	0.00	0.00	0.00	0.00	0.00	85.30	554.70	640.00
2010	0.00	0.00	0.00	0.00	0.00	85.30	554.70	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.017
1990	0	0.000	0.000	0.017
1995	0	0.000	0.000	0.017
2000	0	0.000	0.000	0.017
2005	0	0.000	0.000	0.017
2010	0	0.000	0.000	0.017
SATURATION	4,845	0.363	0.719	0.847

ZONE NAME: D1001 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	502.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	10.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	879	0.076	0.192	0.320

ZONE NAME: D1501 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	157.00	0.00	27.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	11.00	195.00	445.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	914	0.080	0.201	0.329

ZONDATA1

ZONE INPUT DATA

RUN 7-30-85 AT 16:25:47

PAGE 70

ZONE NAME: D1601 DATA ACTIVE: 2015

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	64.00	160.00	192.00	64.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	480.00	160.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	4,845	0.363	0.719	0.847

ZONE NAME: D1701 DATA ACTIVE: 1990

PROJECTION MODE: LOGS

CURVE CONSTANT: .25

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	155.40	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	329.30	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	54.70	210.10	109.90	320.00	
SATURATION ACRES	0.00	0.00	0.00	54.70	384.00	256.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	3.64	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	127.81	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	155.23	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	155.40	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	57.38	582.62	640.00
1990	0.00	0.00	0.00	0.01	0.03	57.38	582.58	640.00
1995	0.00	0.00	0.00	1.57	5.21	58.68	576.11	640.00
2000	0.00	0.00	0.00	43.21	171.01	100.13	368.86	640.00
2005	0.00	0.00	0.00	54.59	209.82	109.83	320.36	640.00
2010	0.00	0.00	0.00	54.70	210.10	109.90	320.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.011
1990	0	0.000	0.000	0.012
1995	49	0.005	0.018	0.031
2000	1,725	0.173	0.420	0.474
2005	2,096	0.212	0.508	0.571
2010	2,098	0.212	0.508	0.572
SATURATION	4,446	0.388	0.830	0.958

ZONE NAME: D1801 DATA ACTIVE: 1990

PROJECTION MODE: LOGS

CURVE CONSTANT: .25

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	436.20	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	457.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	51.80	488.00	122.00	30.00	
SATURATION ACRES	0.00	0.00	0.00	55.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	8.35	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	371.03	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	435.94	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	436.20	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.01	0.04	0.01	639.95	640.00
1995	0.00	0.00	0.00	1.50	9.85	2.46	627.68	640.00
2000	0.00	0.00	0.00	40.82	411.86	102.96	125.18	640.00
2005	0.00	0.00	0.00	51.69	487.63	121.91	30.46	640.00
2010	0.00	0.00	0.00	51.80	488.00	122.00	30.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	113	0.010	0.034	0.036
2000	5,009	0.416	0.863	0.966
2005	5,885	0.493	1.010	1.132
2010	5,889	0.493	1.010	1.132
SATURATION	6,170	0.518	1.056	1.184

ZONE NAME: D1901 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	61.40	0.00	0.00
END ACRES	0.00	392.70	0.00	0.00	0.00	61.40	0.00	0.00
SATURATION ACRES	0.00	404.00	0.00	0.00	0.00	70.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	33.90	95.30	23.80	520.90	640.00
END ACRES	0.00	0.00	0.00	33.90	488.00	122.00	30.00	
SATURATION ACRES	0.00	0.00	0.00	38.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	61.40	0.00	0.00
1990	0.00	78.54	0.00	0.00	0.00	61.40	0.00	0.00
1995	0.00	157.08	0.00	0.00	0.00	61.40	0.00	0.00
2000	0.00	235.62	0.00	0.00	0.00	61.40	0.00	0.00
2005	0.00	314.16	0.00	0.00	0.00	61.40	0.00	0.00
2010	0.00	392.70	0.00	0.00	0.00	61.40	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	33.90	95.30	23.83	520.88	640.00
1990	0.00	0.00	0.00	33.90	173.84	43.46	422.70	640.00
1995	0.00	0.00	0.00	33.90	252.38	63.10	324.52	640.00
2000	0.00	0.00	0.00	33.90	330.92	82.73	226.35	640.00
2005	0.00	0.00	0.00	33.90	409.46	102.37	128.18	640.00
2010	0.00	0.00	0.00	33.90	488.00	122.00	30.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	1,142	0.120	0.305	0.329
1990	1,660	0.158	0.383	0.426
1995	2,179	0.197	0.457	0.520
2000	2,697	0.236	0.530	0.613
2005	3,215	0.275	0.602	0.704
2010	3,734	0.314	0.672	0.794
SATURATION	3,968	0.336	0.716	0.844

ZONE NAME: D2001 DATA ACTIVE: 2015

PROJECTION MODE: GEOM

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	124.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	10.00	384.00	256.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	3,809	0.296	0.611	0.739

ZONE NAME: D2101 DATA ACTIVE: 2015

PROJECTION MODE: GEOM

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	374.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	HNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	384.00	256.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	HNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,444	0.108	0.249	0.377

ZONE NAME: D2201 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .50

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	374.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
END ACRES	0.00	0.00	0.00	0.00	128.00	32.00	480.00	
SATURATION ACRES	0.00	0.00	0.00	10.00	384.00	256.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
1990	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
1995	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
2000	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
2005	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00
2010	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	224	0.017	0.052	0.084
1990	224	0.017	0.052	0.084
1995	224	0.017	0.052	0.084
2000	224	0.017	0.052	0.084
2005	224	0.017	0.052	0.084
2010	224	0.017	0.052	0.084
SATURATION	722	0.064	0.167	0.295

ZONE NAME: D2701 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	502.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	10.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,757	0.142	0.325	0.453

ZONE NAME: I2801 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5				
	0.000	0.000	0.000	0.000	0.000				
	D1	D2	D4	D5	D6	D7	D11	D12	
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SATURATION ACRES	502.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	10.00	512.00	128.00	0.00		

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,757	0.142	0.325	0.453

ZONE NAME: D2901 DATA ACTIVE: 2015

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	196.00	110.00	206.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	4,193	0.314	0.632	0.760

ZONE NAME: D3001 DATA ACTIVE: 1990

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	166.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	455.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	455.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	56.90	223.30	55.80	360.90	640.00
END ACRES	0.00	0.00	0.00	56.90	512.00	128.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	56.90	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	166.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	224.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	281.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	339.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	397.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	455.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	56.90	223.30	55.83	360.87	640.00
1990	0.00	0.00	0.00	56.90	281.04	70.26	288.70	640.00
1995	0.00	0.00	0.00	56.90	338.78	84.70	216.53	640.00
2000	0.00	0.00	0.00	56.90	396.52	99.13	144.35	640.00
2005	0.00	0.00	0.00	56.90	454.26	113.57	72.17	640.00
2010	0.00	0.00	0.00	56.90	512.00	128.00	0.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	582	0.101	0.285	0.341
1990	784	0.116	0.318	0.388
1995	987	0.131	0.350	0.435
2000	1,189	0.146	0.381	0.480
2005	1,391	0.161	0.412	0.525
2010	1,593	0.176	0.442	0.570
SATURATION	1,593	0.176	0.442	0.570

ZONE NAME: D3101 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	444.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	444.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	444.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	67.80	512.00	128.00	0.00	640.00
END ACRES	0.00	0.00	0.00	67.80	512.00	128.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	67.80	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	444.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	444.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	444.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	444.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	444.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	444.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	67.80	512.00	128.00	0.00	640.00
1990	0.00	0.00	0.00	67.80	512.00	128.00	0.00	640.00
1995	0.00	0.00	0.00	67.80	512.00	128.00	0.00	640.00
2000	0.00	0.00	0.00	67.80	512.00	128.00	0.00	640.00
2005	0.00	0.00	0.00	67.80	512.00	128.00	0.00	640.00
2010	0.00	0.00	0.00	67.80	512.00	128.00	0.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	1,555	0.184	0.469	0.597
1990	1,555	0.184	0.469	0.597
1995	1,555	0.184	0.469	0.597
2000	1,555	0.184	0.469	0.597
2005	1,555	0.184	0.469	0.597
2010	1,555	0.184	0.469	0.597
SATURATION	1,555	0.184	0.469	0.597

ZONE NAME: D3201 DATA ACTIVE: 2015

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	150.00	120.00	212.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	30.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	4,179	0.343	0.720	0.848

ZONE NAME: D3301 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	332.00	0.00	170.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	10.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	3,457	0.269	0.563	0.691

ZONE NAME: D3401 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	502.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	320.00	80.00	240.00	640.00
END ACRES	0.00	0.00	0.00	0.00	320.00	80.00	240.00	
SATURATION ACRES	0.00	0.00	0.00	10.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	320.00	80.00	240.00	640.00
1990	0.00	0.00	0.00	0.00	320.00	80.00	240.00	640.00
1995	0.00	0.00	0.00	0.00	320.00	80.00	240.00	640.00
2000	0.00	0.00	0.00	0.00	320.00	80.00	240.00	640.00
2005	0.00	0.00	0.00	0.00	320.00	80.00	240.00	640.00
2010	0.00	0.00	0.00	0.00	320.00	80.00	240.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	1,120	0.084	0.200	0.280
1990	1,120	0.084	0.200	0.280
1995	1,120	0.084	0.200	0.280
2000	1,120	0.084	0.200	0.280
2005	1,120	0.084	0.200	0.280
2010	1,120	0.084	0.200	0.280
SATURATION	1,757	0.142	0.325	0.453

ZONE NAME: E0101 DATA ACTIVE: 1990

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	118.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	384.80	0.00	38.70	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	64.00	160.00	192.00	64.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	118.80	29.70	491.50	640.00
END ACRES	0.00	0.00	0.00	0.00	423.50	105.90	110.60	
SATURATION ACRES	0.00	0.00	0.00	0.00	480.00	160.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	118.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	172.00	0.00	7.74	0.00	0.00	0.00	0.00	0.00
1995	225.20	0.00	15.48	0.00	0.00	0.00	0.00	0.00
2000	278.40	0.00	23.22	0.00	0.00	0.00	0.00	0.00
2005	331.60	0.00	30.96	0.00	0.00	0.00	0.00	0.00
2010	384.80	0.00	38.70	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	118.80	29.73	491.48	640.00
1990	0.00	0.00	0.00	0.00	179.74	44.96	415.30	640.00
1995	0.00	0.00	0.00	0.00	240.68	60.20	339.13	640.00
2000	0.00	0.00	0.00	0.00	301.62	75.43	262.95	640.00
2005	0.00	0.00	0.00	0.00	362.56	90.67	186.78	640.00
2010	0.00	0.00	0.00	0.00	423.50	105.90	110.60	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	416	0.031	0.086	0.116
1990	706	0.053	0.135	0.180
1995	997	0.075	0.181	0.241
2000	1,288	0.097	0.225	0.301
2005	1,579	0.118	0.269	0.359
2010	1,869	0.140	0.311	0.417
SATURATION	4,845	0.363	0.719	0.847

ZONE NAME: E0201 DATA ACTIVE: 2015

PROJECTION MODE: GEDM

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	309.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	64.00	160.00	192.00	64.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	13.20	3.30	623.50	640.00
END ACRES	0.00	0.00	0.00	0.00	309.90	77.50	252.60	
SATURATION ACRES	0.00	0.00	0.00	0.00	480.00	160.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	27.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	53.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	97.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	175.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	309.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	13.20	3.33	623.47	640.00
1990	0.00	0.00	0.00	0.00	27.86	6.99	605.15	640.00
1995	0.00	0.00	0.00	0.00	53.38	13.37	573.25	640.00
2000	0.00	0.00	0.00	0.00	97.82	24.48	517.70	640.00
2005	0.00	0.00	0.00	0.00	175.19	43.82	420.99	640.00
2010	0.00	0.00	0.00	0.00	309.90	77.50	252.60	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	46	0.003	0.012	0.016
1990	98	0.007	0.026	0.033
1995	187	0.014	0.044	0.058
2000	342	0.026	0.073	0.098
2005	613	0.046	0.120	0.163
2010	1,085	0.081	0.195	0.272
SATURATION	4,845	0.363	0.719	0.847

ZONE NAME: E1201 DATA ACTIVE: 2015

PROJECTION MODE: GEOM

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	191.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	191.10	47.80	401.10	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	9.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	25.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	54.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	104.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	191.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.03	639.97	640.00
1990	0.00	0.00	0.00	0.00	9.44	2.39	628.17	640.00
1995	0.00	0.00	0.00	0.00	25.88	6.50	607.62	640.00
2000	0.00	0.00	0.00	0.00	54.50	13.65	571.85	640.00
2005	0.00	0.00	0.00	0.00	104.34	26.11	509.55	640.00
2010	0.00	0.00	0.00	0.00	191.10	47.80	401.10	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	33	0.002	0.009	0.011
1995	91	0.007	0.024	0.031
2000	191	0.014	0.045	0.059
2005	365	0.027	0.077	0.103
2010	669	0.050	0.129	0.177
SATURATION	1,792	0.134	0.300	0.428

ZONE NAME: F0301 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .60

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5				
	0.000	0.000	0.000	0.000	0.000				
	D1	D2	D4	D5	D6	D7	D11	D12	
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SATURATION ACRES	502.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	10.00	512.00	128.00	0.00		

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,054	0.089	0.220	0.348

ZONE NAME: F0401 DATA ACTIVE: 2015

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	200.00	0.00	307.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	5.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	4,845	0.368	0.734	0.862

ZONE NAME: F0501 DATA ACTIVE: 2015

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	256.00	0.00	472.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	256.00	64.00	320.00	640.00
END ACRES	0.00	0.00	0.00	0.00	256.00	64.00	320.00	
SATURATION ACRES	0.00	0.00	0.00	40.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	256.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	256.00	64.00	320.00	640.00
1990	0.00	0.00	0.00	0.00	256.00	64.00	320.00	640.00
1995	0.00	0.00	0.00	0.00	256.00	64.00	320.00	640.00
2000	0.00	0.00	0.00	0.00	256.00	64.00	320.00	640.00
2005	0.00	0.00	0.00	0.00	256.00	64.00	320.00	640.00
2010	0.00	0.00	0.00	0.00	256.00	64.00	320.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	896	0.067	0.165	0.229
1990	896	0.067	0.165	0.229
1995	896	0.067	0.165	0.229
2000	896	0.067	0.165	0.229
2005	896	0.067	0.165	0.229
2010	896	0.067	0.165	0.229
SATURATION	7,268	0.585	1.152	1.280

ZONE NAME: F0601 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	64.00	160.00	192.00	64.00	0.00	0.00	0.00	0.00
SATURATION ACRES	64.00	160.00	192.00	64.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	480.00	160.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	480.00	160.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	12.80	32.00	38.40	12.80	0.00	0.00	0.00	0.00
1995	25.60	64.00	76.80	25.60	0.00	0.00	0.00	0.00
2000	38.40	96.00	115.20	38.40	0.00	0.00	0.00	0.00
2005	51.20	128.00	153.60	51.20	0.00	0.00	0.00	0.00
2010	64.00	160.00	192.00	64.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	40.00	600.00	640.00
1990	0.00	0.00	0.00	0.00	96.00	64.00	480.00	640.00
1995	0.00	0.00	0.00	0.00	192.00	88.00	360.00	640.00
2000	0.00	0.00	0.00	0.00	288.00	112.00	240.00	640.00
2005	0.00	0.00	0.00	0.00	384.00	136.00	120.00	640.00
2010	0.00	0.00	0.00	0.00	480.00	160.00	0.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.008
1990	969	0.073	0.177	0.209
1995	1,938	0.145	0.321	0.377
2000	2,907	0.218	0.458	0.538
2005	3,876	0.291	0.590	0.694
2010	4,845	0.363	0.719	0.847
SATURATION	4,845	0.363	0.719	0.847

ZONE NAME: F0701 DATA ACTIVE: 2015 PROJECTION MODE: GEOM

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	64.00	160.00	192.00	64.00	0.00	0.00	0.00	0.00
SATURATION ACRES	64.00	160.00	192.00	64.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
REGTN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	480.00	160.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	480.00	160.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	3.16	7.91	9.77	3.16	0.00	0.00	0.00	0.00
1995	8.67	21.67	26.00	8.67	0.00	0.00	0.00	0.00
2000	18.25	45.63	54.76	18.25	0.00	0.00	0.00	0.00
2005	34.94	87.36	104.83	34.94	0.00	0.00	0.00	0.00
2010	64.00	160.00	192.00	64.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	40.00	600.00	640.00
1990	0.00	0.00	0.00	0.00	23.72	45.93	570.35	640.00
1995	0.00	0.00	0.00	0.00	65.01	56.25	518.74	640.00
2000	0.00	0.00	0.00	0.00	136.90	74.22	428.88	640.00
2005	0.00	0.00	0.00	0.00	262.07	105.52	272.42	640.00
2010	0.00	0.00	0.00	0.00	480.00	160.00	0.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.008
1990	239	0.018	0.054	0.068
1995	656	0.049	0.127	0.151
2000	1,382	0.104	0.240	0.282
2005	2,645	0.198	0.421	0.495
2010	4,845	0.363	0.719	0.847
SATURATION	4,845	0.363	0.719	0.847

ZONE NAME: F0801 DATA ACTIVE: 2015

PROJECTION MODE: GEOM

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	507.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	
SATURATION ACRES	0.00	0.00	0.00	5.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	69.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	146.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	279.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	512.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	25.30	6.32	608.38	640.00
1995	0.00	0.00	0.00	0.00	69.34	17.34	553.32	640.00
2000	0.00	0.00	0.00	0.00	146.02	36.51	457.47	640.00
2005	0.00	0.00	0.00	0.00	279.54	69.88	290.58	640.00
2010	0.00	0.00	0.00	0.00	512.00	128.00	0.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	89	0.007	0.024	0.030
1995	243	0.018	0.055	0.072
2000	511	0.038	0.103	0.139
2005	978	0.073	0.178	0.248
2010	1,792	0.134	0.300	0.428
SATURATION	1,775	0.138	0.313	0.441

ZONE NAME: F0901 DATA ACTIVE: 2015

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5				
	0.000	0.000	0.000	0.000	0.000				
	D1	D2	D4	D5	D6	D7	D11	D12	
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	507.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	640.00
SATURATION ACRES	0.00	0.00	0.00	5.00	512.00	128.00	0.00		

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12		
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL		
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,775	0.138	0.313	0.441

ZONE NAME: F1001 DATA ACTIVE: 2015

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: .60

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	507.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	640.00	
SATURATION ACRES	0.00	0.00	0.00	5.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,065	0.085	0.206	0.334

ZONE NAME: F1701 DATA ACTIVE: 2015

PROJECTION MODE: GEOM

CURVE CONSTANT: .20

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

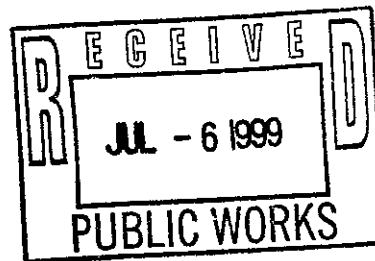
POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5			
	0.000	0.000	0.000	0.000	0.000			
	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	76.80	51.20	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	307.20	204.80	0.00	0.00	0.00	0.00	0.00
	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	31.00	7.80	601.20	640.00
END ACRES	0.00	0.00	0.00	0.00	128.00	32.00	480.00	
SATURATION ACRES	0.00	0.00	0.00	0.00	512.00	128.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	29.47	3.79	2.53	0.00	0.00	0.00	0.00	0.00
1995	26.80	10.40	6.93	0.00	0.00	0.00	0.00	0.00
2000	22.16	21.90	14.60	0.00	0.00	0.00	0.00	0.00
2005	14.07	41.93	27.95	0.00	0.00	0.00	0.00	0.00
2010	0.00	76.80	51.20	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	31.00	7.75	601.25	640.00
1990	0.00	0.00	0.00	0.00	35.79	8.95	595.26	640.00
1995	0.00	0.00	0.00	0.00	44.14	11.03	584.83	640.00
2000	0.00	0.00	0.00	0.00	58.67	14.67	566.67	640.00
2005	0.00	0.00	0.00	0.00	83.96	20.99	535.05	640.00
2010	0.00	0.00	0.00	0.00	128.00	32.00	480.00	640.00


YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	109	0.008	0.028	0.036
1990	162	0.012	0.040	0.048
1995	256	0.019	0.058	0.069
2000	419	0.031	0.087	0.101
2005	703	0.053	0.134	0.155
2010	1,198	0.090	0.212	0.244
SATURATION	4,792	0.359	0.712	0.840


MEMORANDUM



July 6, 1999

TO: James E. Herrewig, Director of Community Development Services

THRU: Michael J. Hemesath, P.E., Director of Public Works 

FROM: Scott W. Dooley, City Engineer 

SUBJECT: Sewer Master Plan Amendment No. 3

This is the third amendment to Appendix E of the Wastewater Management and Sewerage Master Plan in the VISTA 2010, driven by the realignment and re-proportioning of zoning densities for the Pueblo Del Sol (PDS) sewer line as shown on figure 1. As configured, the service area of the PDS line has been expanded from the previous Master Plan to include section 23, 24, a portion of section 17 and the Golden Acres area. The realignment of the PDS line will alleviate some immediate capacity issues in the existing sewer lines in the PDS subdivision areas and create some potential future capacity development east of State Route 92.

With the development of the Castle and Cooke properties in sections 17, 18, 19, and 24 the focus has been to serve these areas with the construction of the PDS line instead of a combination of the PDS and Golden Acres line. As proposed, the PDS line is sized to accommodate sections 24 and 23 that were intended to be served by existing infrastructure through the Country Club Estates subdivision. Sewer flows will be diverted from going into the SC035 line at Buffalo Soldier Trail, and will relieve capacity problems downstream in pipes SD008, and SD009. As development continues in sections 13 and 14 the proposed construction of SD09 will have to be completed to avoid further capacity problems in SD008 and SD004.

When the Sewer Master Plan was revised in 1995 the State Route 90 Interceptor was designed to accept flow from the PDS line and the Golden Acres interceptors at the locations shown on figure 2. Based on the flows projected in this master plan revision, ultimate build outflows will exceed the future capacity of the State Route 90 interceptor. Once capacity of the State Route 90 interceptor is reached, Castle and Cooke will be responsible for the augmentation of the SR90 interceptor before development beyond the interceptor's capacity is achieved. Figure 3 shows the impact of Castle & Cooke properties on the PDS and Golden Acre lines.

Zone densities were updated with input from Castle and Cooke, which incorporated the most recent land use plans as approved by the City and shown in figure 1. Current zone densities and sewer pipe alignments as shown in figure 2 were entered into the City's "SEWSYST" computer sewer modeling program and was named SWDPDSGLD2. A print out of the sewer modeling program data relating to the changes presented by this amendment is also attached.

After you have reviewed these documents and find them acceptable, please process the attached Sewage Master Plan Amendment No. 3. This amendment replaces the May 1987 Sewage Master Plan Amendment 1 and the February 1995 Amendment 2. Once the approval is granted for this Amendment, a reimbursement agreement will be drafted as allowed by the City Code involving Castle and Cooke and the Golden Acres properties that will be served by the PDS interceptor line. If I can answer any questions or supply you with additional information please give me a call.

SWD/mmd

O:\M.Herrewig Sewer MP.AMENDMENT3.doc

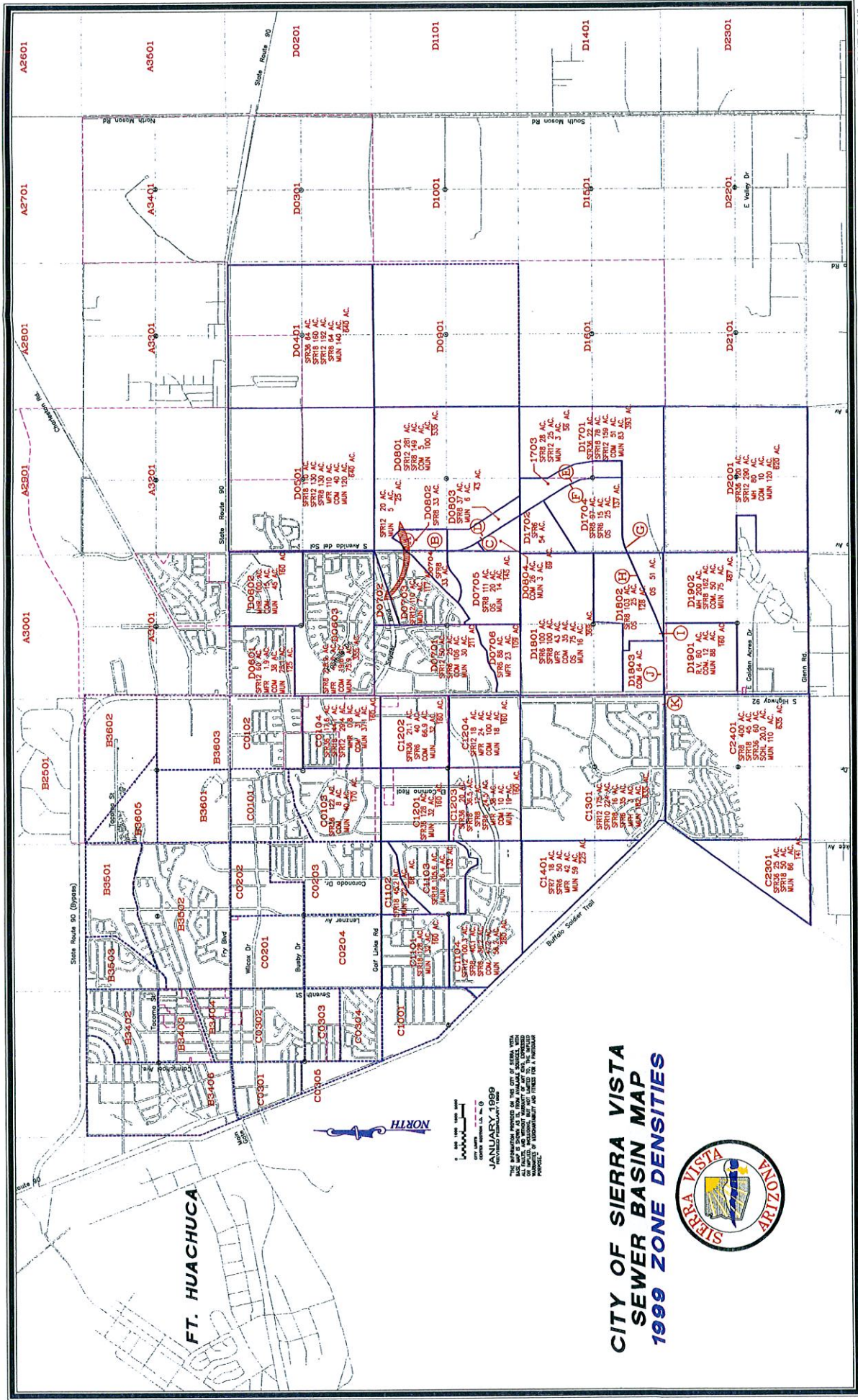
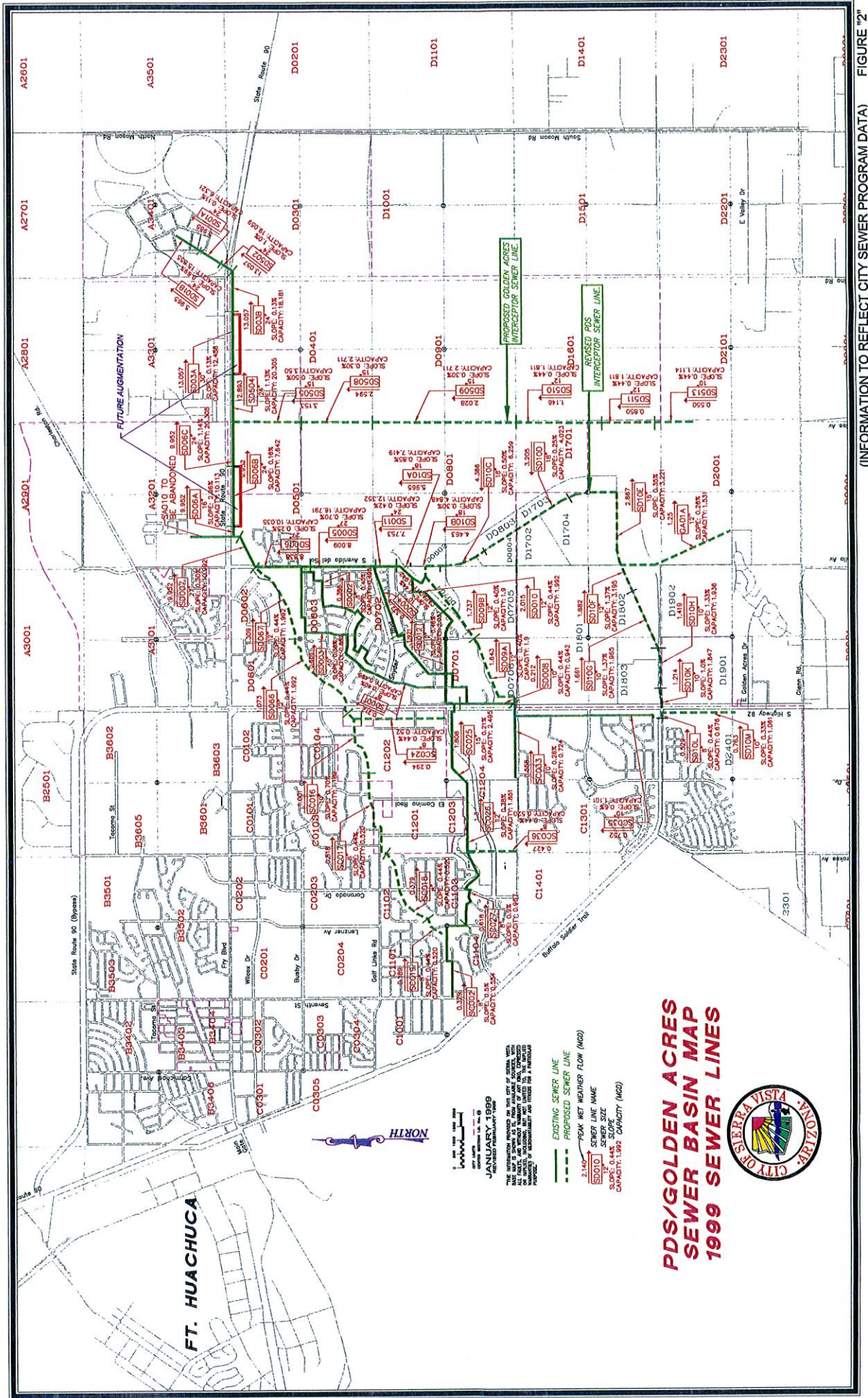


FIGURE "1"



1" = 100' HORIZONTAL
 1" = 10' VERTICAL
 JANUARY, 1999
 REVISION FEBRUARY 1999
 THE INFORMATION PROVIDED ON THIS CITY OF SIERRA VISTA MAP IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT TO BE USED AS A CONTRACT DOCUMENT. ALL RIGHTS ARE RESERVED. THE CITY OF SIERRA VISTA DOES NOT WARRANT THE ACCURACY, COMPLETENESS, OR FITNESS FOR A PARTICULAR PURPOSE OF INFORMATION AND FILES FOR A PARTICULAR PURPOSE.

**PDS/GOLDEN ACRES
 SEWER BASIN MAP
 1999 SEWER LINES**



(INFORMATION TO REFLECT CITY SEWER PROGRAM DATA) FIGURE '2'

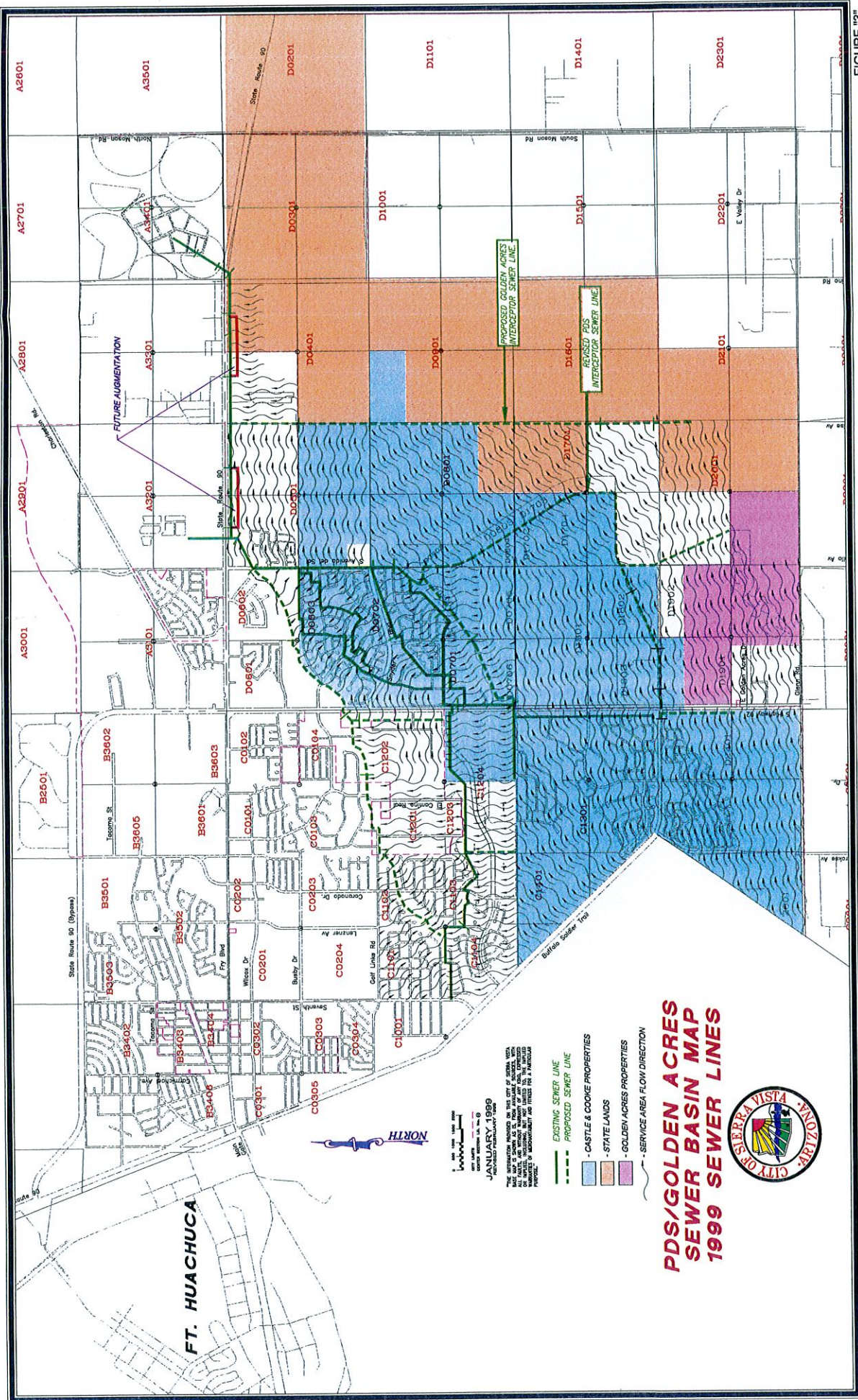


FIGURE '3'

**PDS/GOLDEN ACRES
SEWER BASIN MAP
1999 SEWER LINES**



JANUARY 1999
REVISED FEBRUARY 2009

THE INFORMATION PROVIDED ON THIS CITY OF SIERRA VISTA MAP IS FOR INFORMATIONAL PURPOSES ONLY. THE CITY OF SIERRA VISTA DOES NOT WARRANT THE ACCURACY OF ANY INFORMATION PROVIDED ON THIS MAP. THE CITY OF SIERRA VISTA ASSUMES NO LIABILITY FOR ANY DAMAGE, INCLUDING CONSEQUENTIAL DAMAGES, ARISING FROM THE USE OF THIS MAP.

- EXISTING SEWER LINE
- PROPOSED SEWER LINE
- CASTLE & COOKE PROPERTIES
- STATE LANDS
- GOLDEN ACRES PROPERTIES
- SERVICE AREA FLOW DIRECTION

FT. HUACHUCA

GENERAL STUDY DATA

ZONDATA11

STUDY TIME INCREMENT: 5

NUMBER OF ZONES: 64

STUDY BEGIN YEAR: 1985

DATA BEGIN YEAR: 1985

STUDY END YEAR: 2010

DATA END YEAR: 2010

POPULATION DENSITIES
(PERSONS/ACRE)

TYPE D1: 3.50 RESIDENTIAL GALLONS/CAP/DAY: 75.00

TYPE D2: 6.60 COMMERCIAL GALLONS/ACRE/DAY: 1,000.00

TYPE D4: 13.50 INFILTRATION GALLONS/DAY: 200.00

TYPE D5: 15.20

TYPE D6: 17.10

TYPE D7: 18.60

TYPE D11: 18.00

TYPE D12: 23.00

TYPE D15: 25.80

TYPE D17: 25.00

TYPE D20: 27.50

ZONE NAME: A2901 DATA ACTIVE: 1990
PROJECTION MODE: LOGS
CURVE CONSTANT: .00

TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00
POPULATION VARIANCE FACTOR: .00
INFLTRATION VARIANCE FACTOR: .00

COMMERCIAL G/A/D VARIANCE FACTOR: .00

POINT SOURCES
(MIL/GAL/DAY)

P1 0.000 P2 0.000 P3 0.000 P4 0.000 P5 0.000

BEGIN ACRES
END ACRES
SATURATION ACRES

D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00

D11 0.00 D12 0.00
D11 0.00 D12 0.00
D11 0.00 D12 0.00

BEGIN ACRES
END ACRES
SATURATION ACRES

D15 0.00 D17 0.00 D20 0.00 D20 0.00 D20 0.00

UDA 0.00 UDA 0.00 UDA 0.00
MNA 0.00 MNA 0.00 MNA 0.00
TOTAL 0.00 TOTAL 0.00 TOTAL 0.00

ZONE PROJECTIONS

YEAR 1985 1990 1995 2000 2005 2010

D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00

D11 0.00 D12 0.00
D11 0.00 D12 0.00
D11 0.00 D12 0.00

YEAR 1985 1990 1995 2000 2005 2010

D15 0.00 D17 0.00 D20 0.00 D20 0.00 D20 0.00

UDA 0.00 UDA 0.00 UDA 0.00
MNA 0.00 MNA 0.00 MNA 0.00
TOTAL 0.00 TOTAL 0.00 TOTAL 0.00

YEAR 1985 1990 1995 2000 2005 2010

POPULATION 0 0 0 0 0 0

AVERAGE DRY WEATHER FLOW

PEAK DRY WEATHER FLOW

PEAK WET WEATHER FLOW

0.000 0.000 0.000 0.000 0.000 0.000

0.000 0.000 0.000 0.000 0.000 0.000

0.000 0.000 0.000 0.000 0.000 0.000

ZONE NAME: A3001 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL							
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVERAGE DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

PEAK DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

PEAK WET WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

ZONE NAME: A3201 DATA ACTIVE: 1985 PROJECTION MODE: LOGS TOTAL ACRES: 0.00

CURVE CONSTANT: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	C1A	DVA	MNA	UDA	TOTAL							
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVERAGE DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

PEAK DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

PEAK WET WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

ZONE NAME: C0103 DATA ACTIVE: 1990
 CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 169.80

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
(MIL/GAL/DAY)

	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
BEGIN ACRES	120.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	169.80
END ACRES	121.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	169.80
SATURATION ACRES	121.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	169.80

BEGIN ACRES
END ACRES
SATURATION ACRES

ZONE PROJECTIONS

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	9.50	129.90	38.40	1.50	169.80
1990	0.00	0.00	0.00	9.50	130.14	38.46	1.20	169.80
1995	0.00	0.00	0.00	9.50	130.38	38.52	0.90	169.80
2000	0.00	0.00	0.00	9.50	130.62	38.58	0.60	169.80
2005	0.00	0.00	0.00	9.50	130.86	38.64	0.30	169.80
2010	0.00	0.00	0.00	9.50	131.10	38.70	0.00	169.80

POPULATION

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	421	0.041	0.116	0.149
1990	422	0.041	0.116	0.150
1995	423	0.041	0.116	0.150
2000	424	0.041	0.116	0.150
2005	425	0.041	0.116	0.150
2010	426	0.041	0.116	0.150
SATURATION	426	0.041	0.116	0.150

ZONE NAME: C0104 DATA ACTIVE: 1990 PROJECTION MODE: ARI
CURVE CONSTANT: .00

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	F1	F2	F3	F4	F5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	13.10	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.40	0.80	0.80	0.80	0.80	0.00	160.00
END ACRES	17.60	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.00	0.80	0.80	0.80	0.00	0.00	
SATURATION ACRES	17.60	44.10	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.80	0.00	0.00	
BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL										
END ACRES	0.00	0.00	0.00	11.80	83.00	20.80	56.20	160.00										
SATURATION ACRES	0.00	0.00	0.00	31.00	122.90	30.70	6.40											

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
1985	13.10	27.90	0.00	0.00	0.00	0.00	29.40	0.80	0.80	0.80	0.80	0.00	160.00
1990	14.00	29.02	0.00	0.00	0.00	0.00	31.52	0.80	0.80	0.80	0.80	0.00	160.00
1995	14.90	30.14	0.00	0.00	0.00	0.00	33.64	0.80	0.80	0.80	0.80	0.00	160.00
2000	15.80	31.26	0.00	0.00	0.00	0.00	35.76	0.80	0.80	0.80	0.80	0.00	160.00
2005	16.70	32.38	0.00	0.00	0.00	0.00	37.88	0.80	0.80	0.80	0.80	0.00	160.00
2010	17.60	33.50	0.00	0.00	0.00	0.00	40.00	0.80	0.80	0.80	0.80	0.00	160.00

AVERAGE DRY WEATHER FLOW

PEAK WET WEATHER FLOW

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	11.80	83.00	20.72	56.28	160.00
1990	0.00	0.00	0.00	15.64	90.98	22.72	46.30	160.00
1995	0.00	0.00	0.00	19.48	98.96	24.71	36.32	160.00
2000	0.00	0.00	0.00	23.32	106.94	26.71	26.35	160.00
2005	0.00	0.00	0.00	27.16	114.92	28.70	16.38	160.00
2010	0.00	0.00	0.00	31.00	122.90	30.70	6.40	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	791	0.071	0.205
1990	841	0.079	0.226
1995	891	0.086	0.248
2000	941	0.094	0.269
2005	991	0.101	0.290
2010	1,041	0.109	0.312
SATURATION	764	0.088	0.269

ZONE NAME: C1101 DATA ACTIVE: 1990
CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
(MIL/GAL/DAY)

P1 0.000 P2 0.000

P3 0.000 P4 0.000

P5 0.000

BEGIN ACRES
END ACRES
SATURATION ACRES

D1 0.00 D2 128.00
0.00 128.00
0.00 128.00

D4 0.00 D5 0.00
0.00 0.00
0.00 0.00

D6 0.00 D7 0.00
0.00 0.00
0.00 0.00

D11 0.00 D12 0.00
0.00 0.00
0.00 0.00

BEGIN ACRES
END ACRES
SATURATION ACRES

D15 0.00 D17 0.00
0.00 0.00
0.00 0.00

D20 0.00 CIA 0.00
0.00 0.00
0.00 0.00

DVA 128.00 MNA 32.00
128.00 32.00
128.00 32.00

UDA 0.00 TOTAL 160.00
0.00 160.00
0.00 160.00

ZONE PROJECTIONS

YEAR 1985 1990 1995 2000 2005 2010

D1 0.00 D2 128.00
0.00 128.00
0.00 128.00
0.00 128.00
0.00 128.00

D4 0.00 D5 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00

D6 0.00 D7 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00

D11 0.00 D12 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00

YEAR 1985 1990 1995 2000 2005 2010

D15 0.00 D17 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00

D20 0.00 CIA 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00

DVA 128.00 MNA 32.00
128.00 32.00
128.00 32.00
128.00 32.00
128.00 32.00

UDA 0.00 TOTAL 160.00
0.00 160.00
0.00 160.00
0.00 160.00
0.00 160.00

YEAR 1985 1990 1995 2000 2005 2010

POPULATION 845
845
845
845
845
845

AVERAGE DRY WEATHER FLOW 0.063
0.063
0.063
0.063
0.063
0.063

PEAK DRY WEATHER FLOW 0.157
0.157
0.157
0.157
0.157
0.157

PEAK WET WEATHER FLOW 0.189
0.189
0.189
0.189
0.189
0.189

ZONE NAME: C1102 DATA ACTIVE: 1990
CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 68.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY) P1 P2 P3 P4 P5

D1 D2 D3 D4 D5 D6 D7 D11 D12
0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00

BEGIN ACRES D15 D17 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

ZONE PROJECTIONS

YEAR D1 D2 D3 D4 D5 D6 D7 D11 D12
1985 0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1990 0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1995 0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2000 0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2005 0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2010 0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00

YEAR D15 D17 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32
1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

AVERAGE DRY WEATHER FLOW

POPULATION 298
1985 298
1990 298
1995 298
2000 298
2005 298
2010 298
SATURATION 298

PEAK DRY WEATHER FLOW

DVA CIA D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32
0.065 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022
0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065 0.065

PEAK WET WEATHER FLOW

UDA MNA TOTAL
11.50 11.30 68.00
11.50 11.30 68.00
11.50 11.30 68.00
11.50 11.30 68.00
11.50 11.30 68.00
11.50 11.30 68.00

ZONE NAME: C1103 DATA ACTIVE: 1990 PROJECTION MODE: ARI
 CURVE CONSTANT: .00

TOTAL ACRES: 132.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
BEGIN ACRES	0.00	105.60	0.00	0.00	0.00	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
END ACRES	0.00	105.60	0.00	0.00	0.00	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
SATURATION ACRES	0.00	105.60	0.00	0.00	0.00	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
1990	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
1995	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
2000	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
2005	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
2010	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
1990	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
1995	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
2000	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
2005	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
2010	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	697	0.052	0.133	0.160
1990	697	0.052	0.133	0.160
1995	697	0.052	0.133	0.160
2000	697	0.052	0.133	0.160
2005	697	0.052	0.133	0.160
2010	697	0.052	0.133	0.160
SATURATION	697	0.052	0.133	0.160

ZONE INPUT DATA ZONE NAME: C1104 DATA ACTIVE: 1985 PROJECTION MODE: LOGS TOTAL ACRES: 280.00

CURVE CONSTANT: .75 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	100.00	40.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	100.30	40.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

POPULATION VARIANCE FACTOR: 1.00	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	280.00	280.00
END ACRES	0.00	0.00	0.00	47.20	223.80	56.20	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	47.20	223.80	56.20	0.00	0.00

ZONE PROJECTIONS

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.25	279.75	280.00
1990	0.00	0.00	0.00	0.03	0.12	0.28	279.60	280.00
1995	0.00	0.00	0.00	7.08	32.14	8.29	239.57	280.00
2000	0.00	0.00	0.00	46.29	219.40	55.10	5.50	280.00
2005	0.00	0.00	0.00	47.20	223.49	56.12	0.39	280.00
2010	0.00	0.00	0.00	47.20	223.50	56.13	0.37	280.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	1	0.000	0.101	0.109
1995	378	0.035	0.552	0.607
2000	2,585	0.240	0.561	0.617
2005	2,633	0.245	0.561	0.617
2010	2,633	0.245	0.562	0.618

ZONE NAME: C1201 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

P1 0.000 P2 0.000 P3 0.000 P4 0.000 P5 0.000

BEGIN ACRES 100.00
END ACRES 128.00
SATURATION ACRES 128.00

D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D8 0.00 D9 0.00 D10 0.00 D11 0.00 D12 0.00

BEGIN ACRES 0.00
END ACRES 0.00
SATURATION ACRES 0.00

D13 0.00 D14 0.00 D15 0.00 D16 0.00 D17 0.00 D18 0.00 D19 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00 D31 0.00 D32 0.00 D33 0.00 D34 0.00 D35 0.00 D36 0.00 D37 0.00 D38 0.00 D39 0.00 D40 0.00 D41 0.00 D42 0.00 D43 0.00 D44 0.00 D45 0.00 D46 0.00 D47 0.00 D48 0.00 D49 0.00 D50 0.00 D51 0.00 D52 0.00 D53 0.00 D54 0.00 D55 0.00 D56 0.00 D57 0.00 D58 0.00 D59 0.00 D60 0.00 D61 0.00 D62 0.00 D63 0.00 D64 0.00 D65 0.00 D66 0.00 D67 0.00 D68 0.00 D69 0.00 D70 0.00 D71 0.00 D72 0.00 D73 0.00 D74 0.00 D75 0.00 D76 0.00 D77 0.00 D78 0.00 D79 0.00 D80 0.00 D81 0.00 D82 0.00 D83 0.00 D84 0.00 D85 0.00 D86 0.00 D87 0.00 D88 0.00 D89 0.00 D90 0.00 D91 0.00 D92 0.00 D93 0.00 D94 0.00 D95 0.00 D96 0.00 D97 0.00 D98 0.00 D99 0.00 D100 0.00

ZONE PROJECTIONS

YEAR 1985 100.00
1990 105.60
1995 111.20
2000 116.80
2005 122.40
2010 128.00

D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D8 0.00 D9 0.00 D10 0.00 D11 0.00 D12 0.00

YEAR 1985 0.00
1990 0.00
1995 0.00
2000 0.00
2005 0.00
2010 0.00

D13 0.00 D14 0.00 D15 0.00 D16 0.00 D17 0.00 D18 0.00 D19 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00 D31 0.00 D32 0.00 D33 0.00 D34 0.00 D35 0.00 D36 0.00 D37 0.00 D38 0.00 D39 0.00 D40 0.00 D41 0.00 D42 0.00 D43 0.00 D44 0.00 D45 0.00 D46 0.00 D47 0.00 D48 0.00 D49 0.00 D50 0.00 D51 0.00 D52 0.00 D53 0.00 D54 0.00 D55 0.00 D56 0.00 D57 0.00 D58 0.00 D59 0.00 D60 0.00 D61 0.00 D62 0.00 D63 0.00 D64 0.00 D65 0.00 D66 0.00 D67 0.00 D68 0.00 D69 0.00 D70 0.00 D71 0.00 D72 0.00 D73 0.00 D74 0.00 D75 0.00 D76 0.00 D77 0.00 D78 0.00 D79 0.00 D80 0.00 D81 0.00 D82 0.00 D83 0.00 D84 0.00 D85 0.00 D86 0.00 D87 0.00 D88 0.00 D89 0.00 D90 0.00 D91 0.00 D92 0.00 D93 0.00 D94 0.00 D95 0.00 D96 0.00 D97 0.00 D98 0.00 D99 0.00 D100 0.00

POPULATION 350
1990 370
1995 389
2000 409
2005 428
2010 448

PEAK DRY WEATHER FLOW 0.026
0.028
0.031
0.032
0.034
0.034

PEAK WET WEATHER FLOW 0.100
0.105
0.109
0.114
0.119
0.124
0.124

DAVA 100.00 105.60 111.20 116.80 122.40 128.00
MNA 25.00 26.40 27.80 29.20 30.60 32.00
UDA 35.00 28.00 21.00 14.00 7.00 0.00

TOTAL 160.00 160.00 160.00 160.00 160.00 160.00

ZONE NAME: C1202 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL						
END ACRES	0.00	0.00	0.00	4.40	4.40	1.10	154.50	160.00						
SATURATION ACRES	0.00	0.00	0.00	66.90	128.00	32.00	0.00	0.00						

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
1989	4.22	0.00	0.00	0.00	0.00	8.00	0.00	0.00	160.00
1990	8.44	0.00	0.00	0.00	0.00	16.00	0.00	0.00	160.00
1995	12.66	0.00	0.00	0.00	0.00	24.00	0.00	0.00	160.00
2000	16.88	0.00	0.00	0.00	0.00	32.00	0.00	0.00	160.00
2010	21.10	0.00	0.00	0.00	0.00	40.00	0.00	0.00	160.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	
1985	0.00	0.00	0.00	4.40	4.40	1.10	154.50	160.00	
1989	0.00	0.00	0.00	16.90	29.12	7.28	123.60	160.00	
1990	0.00	0.00	0.00	29.40	53.84	13.46	92.70	160.00	
1995	0.00	0.00	0.00	41.90	78.56	19.64	61.80	160.00	
2000	0.00	0.00	0.00	54.40	103.28	25.82	30.90	160.00	
2010	0.00	0.00	0.00	66.90	128.00	32.00	0.00	160.00	

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.004	0.013	0.014
1990	164	0.029	0.090	0.098
1995	327	0.054	0.159	0.172
2000	491	0.079	0.225	0.244
2005	654	0.103	0.290	0.315
2010	818	0.128	0.353	0.385
SATURATION	818	0.128	0.353	0.385

ZONE NAME: C1203 DATA ACTIVE: 1985 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
SATURATION ACRES	20.00	37.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	0.00	160.00

BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
SATURATION ACRES	38.00	0.00	0.00	10.00	141.00	19.00	0.00	160.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,923	0.154	0.349	0.381

ZONE NAME: C1204 DATA ACTIVE: 1985
CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5
BEGIN ACRES	D1	D2	D4	D5	D6
END ACRES	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	18.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	CTA	DVA
END ACRES	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	24.00	0.00	0.00	100.00	142.00

D7	D11	D12
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
MNA	UDA	TOTAL
0.00	160.00	160.00
0.00	160.00	
18.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CTA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.022	0.066	0.066
1990	0	0.022	0.066	0.066
1995	0	0.022	0.066	0.066
2000	0	0.022	0.066	0.066
2005	0	0.022	0.066	0.066
2010	0	0.022	0.066	0.066
SATURATION	862	0.187	0.526	0.558

ZONE NAME: C1301 DATA ACTIVE: 1985 PROJECTION MODE: LOGS

CURVE CONSTANT: .75 TOTAL ACRES: 635.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	8.00	8.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	295.00	106.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL						
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	635.00						
SATURATION ACRES	3.00	0.00	0.00	0.00	439.00	196.00	0.00	635.00						

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	635.00
1990	0.00	0.00	0.00	7.95	0.00	0.00	0.00	0.00	0.00	635.00
1995	0.00	0.00	0.00	5.75	0.00	0.00	0.00	0.00	0.00	635.00
2000	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	635.00
2005	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	635.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	635.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL		
1985	0.00	0.00	0.00	0.00	8.00	2.00	625.00	635.00		
1990	0.00	0.00	0.00	0.00	7.95	1.99	625.06	635.00		
1995	0.00	0.00	0.00	0.00	5.75	1.44	627.81	635.00		
2000	0.00	0.00	0.00	0.00	0.33	0.08	634.58	635.00		
2005	0.00	0.00	0.00	0.00	0.01	0.00	634.99	635.00		
2010	0.00	0.00	0.00	0.00	0.00	0.00	635.00	635.00		

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	108	0.008	0.028	0.030
1990	107	0.008	0.028	0.030
1995	78	0.006	0.021	0.022
2000	5	0.000	0.001	0.001
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	6,322	0.474	0.911	1.038

ZONE NAME: C1401 DATA ACTIVE: 1990
 CURVE CONSTANT: .75

PROJECTION MODE: LOGS

TOTAL ACRES: 200.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

P1	P2	P3	P4	P5
0.045	0.000	0.000	0.000	0.000

BEGIN ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

END ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SATURATION ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	0.00	0.00	0.00	18.00	81.00	0.00	0.00

BEGIN ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00

END ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00

SATURATION ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
42.00	0.00	0.00	0.00	141.00	59.00	0.00	200.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00

AVERAGE DRY WEATHER FLOW

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW
1985	0	0.045
1990	0	0.045
1995	0	0.045
2000	0	0.045
2005	0	0.045
2010	0	0.045
SATURATION	2,898	0.262

PEAK DRY WEATHER FLOW

YEAR	POPULATION	PEAK DRY WEATHER FLOW
1985	0	0.135
1990	0	0.135
1995	0	0.135
2000	0	0.135
2005	0	0.135
2010	0	0.135
SATURATION	2,898	0.632

ZONE NAME: C2301 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 141.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	141.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	141.00
SATURATION ACRES	25.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	141.00

BEGIN ACRES	END ACRES	SATURATION ACRES	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	141.00	141.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.00	66.00	141.00	141.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	141.00	141.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	141.00	141.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	141.00	141.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	141.00	141.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	141.00	141.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	141.00	141.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	418	0.031	0.087	0.115

ZONE NAME: C2401 DATA ACTIVE: 1985
 CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 635.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

P1	P2	P3	P4	P5
0.000	0.000	0.000	0.000	0.000

D1	D2	D3	D4	D5	D6	D7
0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.00	45.00	0.00	400.00	0.00	0.00	0.00

D11	D12
0.00	0.00
0.00	0.00
0.00	0.00

BEGIN ACRES
 END ACRES
 SATURATION ACRES

D20	CIA	DVA	MVA	UDA	TOTAL
0.00	0.00	0.00	0.00	635.00	635.00
0.00	0.00	0.00	0.00	635.00	635.00
0.00	20.00	525.40	110.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	635.00	635.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	635.00	635.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	635.00	635.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	635.00	635.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	635.00	635.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	635.00	635.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	635.00	635.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	635.00	635.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	635.00	635.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	635.00	635.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	635.00	635.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	635.00	635.00

AVERAGE DRY WEATHER FLOW

1985	0.000
1990	0.000
1995	0.000
2000	0.000
2005	0.000
2010	0.000
SATURATION	0.514

PEAK DRY WEATHER FLOW

1985	0.000
1990	0.000
1995	0.000
2000	0.000
2005	0.000
2010	0.000
SATURATION	1.005

PEAK WET WEATHER FLOW

1985	0.000
1990	0.000
1995	0.000
2000	0.000
2005	0.000
2010	0.000
SATURATION	1.132

ZONE NAME: C2501 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY) P1 P2 P3 P4 P5

BEGIN ACRES D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12
 END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

BEGIN ACRES D15 D17 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30
 END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

ZONE PROJECTIONS

YEAR D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12
 1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

YEAR D15 D17 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30
 1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

POPULATION D17 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30
 1985 0 0 0 0 0 0 0 0 0 0 0 0
 1990 0 0 0 0 0 0 0 0 0 0 0 0
 1995 0 0 0 0 0 0 0 0 0 0 0 0
 2000 0 0 0 0 0 0 0 0 0 0 0 0
 2005 0 0 0 0 0 0 0 0 0 0 0 0
 2010 0 0 0 0 0 0 0 0 0 0 0 0

AVERAGE DRY WEATHER FLOW D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12
 1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

PEAK DRY WEATHER FLOW D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12
 1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

PEAK WET WEATHER FLOW D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12
 1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

SATURATION D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12
 1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

ZONE NAME: C2601 DATA ACTIVE: 2015 PROJECTION MODE: GEOM

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY)

P1 0.000 P2 0.000 P3 0.000 P4 0.000 P5 0.000

BEGIN ACRES 0.00 D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D11 0.00 D12 0.00

END ACRES 0.00 D15 0.00 D17 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00 D31 0.00 D32 0.00 D33 0.00 D34 0.00 D35 0.00 D36 0.00 D37 0.00 D38 0.00 D39 0.00 D40 0.00 D41 0.00 D42 0.00 D43 0.00 D44 0.00 D45 0.00 D46 0.00 D47 0.00 D48 0.00 D49 0.00 D50 0.00 D51 0.00 D52 0.00 D53 0.00 D54 0.00 D55 0.00 D56 0.00 D57 0.00 D58 0.00 D59 0.00 D60 0.00 D61 0.00 D62 0.00 D63 0.00 D64 0.00 D65 0.00 D66 0.00 D67 0.00 D68 0.00 D69 0.00 D70 0.00 D71 0.00 D72 0.00 D73 0.00 D74 0.00 D75 0.00 D76 0.00 D77 0.00 D78 0.00 D79 0.00 D80 0.00 D81 0.00 D82 0.00 D83 0.00 D84 0.00 D85 0.00 D86 0.00 D87 0.00 D88 0.00 D89 0.00 D90 0.00 D91 0.00 D92 0.00 D93 0.00 D94 0.00 D95 0.00 D96 0.00 D97 0.00 D98 0.00 D99 0.00 D100 0.00

SATURATION ACRES 0.00 D15 0.00 D17 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00 D31 0.00 D32 0.00 D33 0.00 D34 0.00 D35 0.00 D36 0.00 D37 0.00 D38 0.00 D39 0.00 D40 0.00 D41 0.00 D42 0.00 D43 0.00 D44 0.00 D45 0.00 D46 0.00 D47 0.00 D48 0.00 D49 0.00 D50 0.00 D51 0.00 D52 0.00 D53 0.00 D54 0.00 D55 0.00 D56 0.00 D57 0.00 D58 0.00 D59 0.00 D60 0.00 D61 0.00 D62 0.00 D63 0.00 D64 0.00 D65 0.00 D66 0.00 D67 0.00 D68 0.00 D69 0.00 D70 0.00 D71 0.00 D72 0.00 D73 0.00 D74 0.00 D75 0.00 D76 0.00 D77 0.00 D78 0.00 D79 0.00 D80 0.00 D81 0.00 D82 0.00 D83 0.00 D84 0.00 D85 0.00 D86 0.00 D87 0.00 D88 0.00 D89 0.00 D90 0.00 D91 0.00 D92 0.00 D93 0.00 D94 0.00 D95 0.00 D96 0.00 D97 0.00 D98 0.00 D99 0.00 D100 0.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	C1A	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	0	0.000	0.000	0.000

ZONE NAME: C3401 DATA ACTIVE: 2015 PROJECTION MODE: GEOM

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY) P1 0.000 P2 0.000 P3 0.000 P4 0.000 P5 0.000

BEGIN ACRES D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D11 0.00 D12 0.00
 END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

BEGIN ACRES D15 0.00 D17 0.00 D20 0.00 D20 0.00 D20 0.00 DVA 0.00 MNA 0.00 UDA 0.00 TOTAL 0.00
 END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

ZONE PROJECTIONS

YEAR D1 D2 D3 D4 D5 D6 D7 D11 D12
 1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

YEAR D15 D17 D20 CIA DVA MNA UDA TOTAL
 1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

YEAR POPULATION AVERAGE DRY WEATHER FLOW PEAK DRY WEATHER FLOW PEAK WET WEATHER FLOW
 1985 0 0.000 0.000 0.000
 1990 0 0.000 0.000 0.000
 1995 0 0.000 0.000 0.000
 2000 0 0.000 0.000 0.000
 2005 0 0.000 0.000 0.000
 2010 0 0.000 0.000 0.000
 SATURATION 0 0.000 0.000 0.000

ZONE NAME: C3501 DATA ACTIVE: 2015
CURVE CONSTANT: .00

PROJECTION MODE: GEOM

TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00
POPULATION VARIANCE FACTOR: .00

COMMERCIAL G/A/D VARIANCE FACTOR: .00
INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES
(MIL./GAL./DAY)

P1 P2 P3 P4 P5

BEGIN ACRES
END ACRES
SATURATION ACRES

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12

BEGIN ACRES
END ACRES
SATURATION ACRES

D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32 D33 D34 D35 D36 D37 D38 D39 D40 D41 D42 D43 D44 D45 D46 D47 D48 D49 D50 D51 D52 D53 D54 D55 D56 D57 D58 D59 D60 D61 D62 D63 D64 D65 D66 D67 D68 D69 D70 D71 D72 D73 D74 D75 D76 D77 D78 D79 D80 D81 D82 D83 D84 D85 D86 D87 D88 D89 D90 D91 D92 D93 D94 D95 D96 D97 D98 D99 D100

ZONE PROJECTIONS

YEAR 1985 1990 1995 2000 2005 2010

D15 D17 D20 D25 D30 D35 D40 D45 D50 D55 D60 D65 D70 D75 D80 D85 D90 D95 D100

YEAR 1985 1990 1995 2000 2005 2010

D15 D17 D20 D25 D30 D35 D40 D45 D50 D55 D60 D65 D70 D75 D80 D85 D90 D95 D100

POPULATION
1985 0
1990 0
1995 0
2000 0
2005 0
2010 0

AVERAGE DRY WEATHER FLOW

PEAK DRY WEATHER FLOW

PEAK WET WEATHER FLOW

UDA TOTAL

MNA

DVA

CIA

D20

D17

D15

YEAR

1985 1990 1995 2000 2005 2010

ZONE NAME: C3601 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MILL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL	
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL											
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000

ZONE NAME: D0301 DATA ACTIVE: 2000 PROJECTION MODE: GEOM
 CURVE CONSTANT: .20 TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	287.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL							
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	640.00							640.00
SATURATION ACRES	0.00	0.00	0.00	75.00	512.00	128.00	0.00	640.00							640.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL		
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	640.00		640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	640.00		640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	640.00		640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	640.00		640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	640.00		640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	640.00		640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	3,030	0.302	0.700	0.828

ZONE NAME: D0401 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
(MIL/GAL/DAY)

P1	P2	P3	P4	P5
0.000	0.000	0.000	0.000	0.000

BEGIN ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

END ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
82.40	58.20	82.40	0.00	0.00	0.00	0.00	0.00	0.00

SATURATION ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
64.00	160.00	192.00	64.00	64.00	0.00	0.00	0.00	0.00

BEGIN ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

END ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	140.60	35.10	464.30	640.00

SATURATION ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	480.00	160.00	20.00	640.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	11.64	16.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	23.28	32.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	34.92	49.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	46.56	65.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	58.20	82.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.05-	640.05	640.00
1990	0.00	0.00	0.00	0.00	28.12	6.98	604.90	640.00
1995	0.00	0.00	0.00	0.00	56.24	14.01	569.75	640.00
2000	0.00	0.00	0.00	0.00	84.36	21.04	534.60	640.00
2005	0.00	0.00	0.00	0.00	112.48	28.07	499.45	640.00
2010	0.00	0.00	0.00	0.00	140.60	35.10	464.30	640.00

POPULATION

YEAR	POPULATION
1985	0
1990	299
1995	599
2000	898
2005	1,197
2010	1,497
SATURATION	4,845

AVERAGE DRY WEATHER FLOW

WEATHER FLOW
0.000
0.022
0.045
0.067
0.090
0.112
0.363

PEAK WET WEATHER FLOW

WEATHER FLOW
0.000
0.073
0.131
0.187
0.240
0.292
0.847

ZONE NAME: D0501 DATA ACTIVE: 1990
CURVE CONSTANT: .25

PROJECTION MODE: LOGS

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

P1 P2 P3 P4 P5

D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D11 0.00 D12 0.00

D1 0.00 D2 110.00 D3 130.00 D4 130.00 D5 130.00 D6 0.00 D7 0.00 D11 0.00 D12 0.00

D11 0.00 D12 0.00

BEGIN ACRES 0.00 END ACRES 110.00 SATURATION ACRES 110.00

D20 0.00 D21 0.00 D22 0.00 D23 40.00 D24 40.00 D25 40.00 D26 454.00 D27 120.00 D28 120.00

UDA 640.00 TOTAL 640.00

ZONE PROJECTIONS

YEAR D15 D17 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32 D33 D34 D35 D36 D37 D38 D39 D40 D41 D42 D43 D44 D45 D46 D47 D48 D49 D50 D51 D52 D53 D54 D55 D56 D57 D58 D59 D60 D61 D62 D63 D64 D65 D66 D67 D68 D69 D70 D71 D72 D73 D74 D75 D76 D77 D78 D79 D80 D81 D82 D83 D84 D85 D86 D87 D88 D89 D90 D91 D92 D93 D94 D95 D96 D97 D98 D99 D100

D15 0.00 D17 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00 D31 0.00 D32 0.00 D33 0.00 D34 0.00 D35 0.00 D36 0.00 D37 0.00 D38 0.00 D39 0.00 D40 0.00 D41 0.00 D42 0.00 D43 0.00 D44 0.00 D45 0.00 D46 0.00 D47 0.00 D48 0.00 D49 0.00 D50 0.00 D51 0.00 D52 0.00 D53 0.00 D54 0.00 D55 0.00 D56 0.00 D57 0.00 D58 0.00 D59 0.00 D60 0.00 D61 0.00 D62 0.00 D63 0.00 D64 0.00 D65 0.00 D66 0.00 D67 0.00 D68 0.00 D69 0.00 D70 0.00 D71 0.00 D72 0.00 D73 0.00 D74 0.00 D75 0.00 D76 0.00 D77 0.00 D78 0.00 D79 0.00 D80 0.00 D81 0.00 D82 0.00 D83 0.00 D84 0.00 D85 0.00 D86 0.00 D87 0.00 D88 0.00 D89 0.00 D90 0.00 D91 0.00 D92 0.00 D93 0.00 D94 0.00 D95 0.00 D96 0.00 D97 0.00 D98 0.00 D99 0.00 D100 0.00

D11 0.00 D12 0.00

YEAR D15 D17 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32 D33 D34 D35 D36 D37 D38 D39 D40 D41 D42 D43 D44 D45 D46 D47 D48 D49 D50 D51 D52 D53 D54 D55 D56 D57 D58 D59 D60 D61 D62 D63 D64 D65 D66 D67 D68 D69 D70 D71 D72 D73 D74 D75 D76 D77 D78 D79 D80 D81 D82 D83 D84 D85 D86 D87 D88 D89 D90 D91 D92 D93 D94 D95 D96 D97 D98 D99 D100

D15 0.00 D17 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00 D31 0.00 D32 0.00 D33 0.00 D34 0.00 D35 0.00 D36 0.00 D37 0.00 D38 0.00 D39 0.00 D40 0.00 D41 0.00 D42 0.00 D43 0.00 D44 0.00 D45 0.00 D46 0.00 D47 0.00 D48 0.00 D49 0.00 D50 0.00 D51 0.00 D52 0.00 D53 0.00 D54 0.00 D55 0.00 D56 0.00 D57 0.00 D58 0.00 D59 0.00 D60 0.00 D61 0.00 D62 0.00 D63 0.00 D64 0.00 D65 0.00 D66 0.00 D67 0.00 D68 0.00 D69 0.00 D70 0.00 D71 0.00 D72 0.00 D73 0.00 D74 0.00 D75 0.00 D76 0.00 D77 0.00 D78 0.00 D79 0.00 D80 0.00 D81 0.00 D82 0.00 D83 0.00 D84 0.00 D85 0.00 D86 0.00 D87 0.00 D88 0.00 D89 0.00 D90 0.00 D91 0.00 D92 0.00 D93 0.00 D94 0.00 D95 0.00 D96 0.00 D97 0.00 D98 0.00 D99 0.00 D100 0.00

UDA 636.00 TOTAL 640.00

YEAR POPULATION

AVERAGE DRY WEATHER FLOW

PEAK DRY WEATHER FLOW

PEAK WET WEATHER FLOW

1985 0.00 1990 1.00 1995 180.00 2000 5,943.00 2005 7,286.00 2010 7,295.00 SATURATION 7,295.00

0.000 0.000 0.015 0.477 0.586 0.587 0.587

0.000 0.000 0.047 0.956 1.154 1.155 1.155

0.001 0.001 0.051 1.062 1.285 1.286 1.283

ZONE NAME: D0601 DATA ACTIVE: 1985 PROJECTION MODE: ARI
CURVE CONSTANT: .00

TOTAL ACRES: 125.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/R/D VARIANCE FACTOR: 1.00
POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	60.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	60.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL						
END ACRES	0.00	10.00	2.00	18.70	61.00	12.70	63.30	125.00						
SATURATION ACRES	0.00	20.00	2.00	35.00	117.00	20.00	0.00	0.00						
	0.00	0.00	1.90	38.00	99.90	25.10	0.00	0.00						

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	30.30	0.00	0.00	0.00	0.00	0.00	125.00
1990	0.00	0.00	0.00	36.24	0.00	0.00	0.00	0.00	0.00	125.00
1995	0.00	0.00	0.00	42.18	0.00	0.00	0.00	0.00	0.00	125.00
2000	0.00	0.00	0.00	48.12	0.00	0.00	0.00	0.00	0.00	125.00
2005	0.00	0.00	0.00	54.06	0.00	0.00	0.00	0.00	0.00	125.00
2010	0.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00	125.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL		
1985	0.00	10.00	2.00	18.70	61.00	6.00	58.00	125.00		
1990	0.00	12.00	2.00	21.96	72.20	8.80	44.00	125.00		
1995	0.00	14.00	2.00	25.22	83.40	11.60	30.00	125.00		
2000	0.00	16.00	2.00	28.48	94.60	14.40	16.00	125.00		
2005	0.00	18.00	2.00	31.74	105.80	17.20	2.00	125.00		
2010	0.00	20.00	2.00	35.00	117.00	20.00	12.00	125.00		

AVERAGE DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	714	0.072
1990	844	0.085
1995	974	0.098
2000	1,105	0.111
2005	1,235	0.124
2010	1,365	0.137
SATURATION	862	0.103

PEAK DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	714	0.192
1990	844	0.223
1995	974	0.253
2000	1,105	0.283
2005	1,235	0.313
2010	1,365	0.342
SATURATION	862	0.274

PEAK WET WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	714	0.206
1990	844	0.239
1995	974	0.272
2000	1,105	0.305
2005	1,235	0.337
2010	1,365	0.369
SATURATION	862	0.299

ZONE NAME: D0602 DATA ACTIVE: 1990
 CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
 (MIL/GAL/DAY)

P1 P2 P3 P4 P5

BEGIN ACRES
 END ACRES
 SATURATION ACRES

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

BEGIN ACRES
 END ACRES
 SATURATION ACRES

D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

ZONE PROJECTIONS

YEAR D15 D17 D20 D25 D30 D35 D40 D45 D50 D55 D60 D65 D70 D75 D80 D85 D90 D95 D100
 1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

POPULATION
 724
 939
 1,154
 1,369
 1,585
 1,800
 1,800

AVERAGE DRY
 WEATHER FLOW
 0.059
 0.077
 0.095
 0.114
 0.132
 0.150
 0.150

PEAK DRY
 WEATHER FLOW
 0.151
 0.192
 0.231
 0.270
 0.308
 0.346
 0.346

PEAK WET
 WEATHER FLOW
 0.169
 0.212
 0.255
 0.296
 0.338
 0.378
 0.378

TOTAL
 UDA 71.13
 MNA 30.77
 DVA 58.10
 CIA 4.50

UDA 71.13
 MNA 30.77
 DVA 58.10
 CIA 4.50

UDA 71.13
 MNA 30.77
 DVA 58.10
 CIA 4.50

UDA 71.13
 MNA 30.77
 DVA 58.10
 CIA 4.50

ZONE NAME: D0603 DATA ACTIVE: 1985

CURVE CONSTANT: .25

TOTAL ACRES: 355.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/R/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
(MIL/GAL/DAY)

P1	P2	P3	P4	P5
0.000	0.000	0.000	0.000	0.000

BEGIN ACRES

D1	D2	D3	D4	D5	D6	D7
0.00	0.00	0.00	0.00	218.00	0.00	0.00

END ACRES

D1	D2	D3	D4	D5	D6	D7
0.00	0.00	0.00	0.00	218.00	0.00	0.00

SATURATION ACRES

D1	D2	D3	D4	D5	D6	D7
0.00	0.00	0.00	0.00	218.00	0.00	0.00

BEGIN ACRES

D15	D17	D20	CIA	DVA	MVA	TOTAL
41.00	0.00	0.00	20.00	279.00	76.00	355.00

END ACRES

D15	D17	D20	CIA	DVA	MVA	TOTAL
41.00	0.00	0.00	20.00	279.00	76.00	355.00

SATURATION ACRES

D15	D17	D20	CIA	DVA	MVA	TOTAL
41.00	0.00	0.00	20.00	279.00	76.00	355.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	218.00	0.00	0.00	0.00	0.00	355.00
1990	0.00	0.00	0.00	218.00	0.00	0.00	0.00	0.00	355.00
1995	0.00	0.00	0.00	218.00	0.00	0.00	0.00	0.00	355.00
2000	0.00	0.00	0.00	218.00	0.00	0.00	0.00	0.00	355.00
2005	0.00	0.00	0.00	218.00	0.00	0.00	0.00	0.00	355.00
2010	0.00	0.00	0.00	218.00	0.00	0.00	0.00	0.00	355.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	4,371	0.348	0.716	0.787
1990	4,371	0.348	0.716	0.787
1995	4,371	0.348	0.716	0.787
2000	4,371	0.348	0.716	0.787
2005	4,371	0.348	0.716	0.787
2010	4,371	0.348	0.716	0.787
SATURATION	4,371	0.348	0.716	0.787

ZONE NAME: D0701 DATA ACTIVE: 1985
CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 211.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
(MIL/GAL/DAY)

P1 P2 P3 P4 P5

BEGIN ACRES
END ACRES
SATURATION ACRES

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32 D33 D34 D35 D36 D37 D38 D39 D40 D41 D42 D43 D44 D45 D46 D47 D48 D49 D50 D51 D52 D53 D54 D55 D56 D57 D58 D59 D60 D61 D62 D63 D64 D65 D66 D67 D68 D69 D70 D71 D72 D73 D74 D75 D76 D77 D78 D79 D80 D81 D82 D83 D84 D85 D86 D87 D88 D89 D90 D91 D92 D93 D94 D95 D96 D97 D98 D99 D100

BEGIN ACRES
END ACRES
SATURATION ACRES

D15 D17 D20 D22 D25 D28 D31 D34 D37 D40 D43 D46 D49 D52 D55 D58 D61 D64 D67 D70 D73 D76 D79 D82 D85 D88 D91 D94 D97 D100

ZONE PROJECTIONS

YEAR
1985
1990
1995
2000
2005
2010

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32 D33 D34 D35 D36 D37 D38 D39 D40 D41 D42 D43 D44 D45 D46 D47 D48 D49 D50 D51 D52 D53 D54 D55 D56 D57 D58 D59 D60 D61 D62 D63 D64 D65 D66 D67 D68 D69 D70 D71 D72 D73 D74 D75 D76 D77 D78 D79 D80 D81 D82 D83 D84 D85 D86 D87 D88 D89 D90 D91 D92 D93 D94 D95 D96 D97 D98 D99 D100

YEAR
1985
1990
1995
2000
2005
2010

D15 D17 D20 D22 D25 D28 D31 D34 D37 D40 D43 D46 D49 D52 D55 D58 D61 D64 D67 D70 D73 D76 D79 D82 D85 D88 D91 D94 D97 D100

YEAR
1985
1990
1995
2000
2005
2010

D15 D17 D20 D22 D25 D28 D31 D34 D37 D40 D43 D46 D49 D52 D55 D58 D61 D64 D67 D70 D73 D76 D79 D82 D85 D88 D91 D94 D97 D100

AVERAGE DRY
WEATHER FLOW

PEAK DRY
WEATHER FLOW

PEAK WET
WEATHER FLOW

SATURATION

1,140

0.192

0.521

0.527

ZONE NAME: D0702 DATA ACTIVE: 1985 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 25.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/R/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
(MIL/GAL/DAY)

F1	F2	F3	F4	F5
0.000	0.000	0.000	0.000	0.000

BEGIN ACRES
END ACRES
SATURATION ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00

BEGIN ACRES
END ACRES
SATURATION ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00
0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00
0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	270	0.020	0.060	0.061

ZONE NAME: D0703 DATA ACTIVE: 1990
 CURVE CONSTANT: .00
 PROJECTION MODE: ARI

TOTAL ACRES: 117.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00
 INFILTRATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POINT SOURCES
 (MIL/GAL/DAY)

P1	P2	P3	P4	P5
0.000	0.000	0.000	0.000	0.000

BEGIN ACRES
 END ACRES
 SATURATION ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	110.00	0.00	0.00	0.00	0.00	0.00	0.00

BEGIN ACRES
 END ACRES
 SATURATION ACRES

D15	D17	D20	DVA	CJA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	0.00	117.00	117.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	117.00	117.00
0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CJA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	117.00	117.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	117.00	117.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	117.00	117.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	117.00	117.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	117.00	117.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	117.00	117.00

POPULATION

1985	0
1990	0
1995	0
2000	0
2005	0
2010	0
SATURATION	1,485

AVERAGE DRY
 WEATHER FLOW

1985	0.000
1990	0.000
1995	0.000
2000	0.000
2005	0.000
2010	0.000
SATURATION	0.111

PEAK DRY
 WEATHER FLOW

1985	0.000
1990	0.000
1995	0.000
2000	0.000
2005	0.000
2010	0.000
SATURATION	0.255

PEAK WET
 WEATHER FLOW

1985	0.000
1990	0.000
1995	0.000
2000	0.000
2005	0.000
2010	0.000
SATURATION	0.256

ZONE NAME: D0704 DATA ACTIVE: 2000 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 33.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
(MIL/GAL/DAY)

P1 P2 P3 P4 P5

BEGIN ACRES
END ACRES
SATURATION ACRES

D1 D2 D3 D4 D5 D6 D7 D11 D12

BEGIN ACRES
END ACRES
SATURATION ACRES

D15 D17 D20 CIA DVA MNA UDA TOTAL

ZONE PROJECTIONS

YEAR
1985
1990
1995
2000
2005
2010

D1 D2 D4 D5 D6 D7 D11 D12

YEAR
1985
1990
1995
2000
2005
2010

D15 D17 D20 CIA DVA MNA UDA TOTAL

YEAR
1985
1990
1995
2000
2005
2010
SATURATION

POPULATION
0
0
0
0
0
502

AVERAGE DRY
WEATHER FLOW
0.000
0.000
0.000
0.000
0.000
0.038

PEAK DRY
WEATHER FLOW
0.000
0.000
0.000
0.000
0.000
0.101

PEAK WET
WEATHER FLOW
0.000
0.000
0.000
0.000
0.000
0.108

ZONE NAME: D0705 DATA ACTIVE: 2000 PROJECTION MODE: ARI TOTAL ACRES: 145.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	111.00	0.00	0.00	0.00

BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00
SATURATION ACRES	0.00	0.00	0.00	0.00	111.00	34.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,687	0.127	0.285	0.314

ZONE NAME: D0706 DATA ACTIVE: 2000 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 109.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MILL/GAL/DAY)

P1 P2 P3 P4 P5

BEGIN ACRES
END ACRES
SATURATION ACRES

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12

BEGIN ACRES
END ACRES
SATURATION ACRES

D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32 D33 D34 D35 D36 D37 D38 D39 D40 D41 D42 D43 D44 D45 D46 D47 D48 D49 D50 D51 D52 D53 D54 D55 D56 D57 D58 D59 D60 D61 D62 D63 D64 D65 D66 D67 D68 D69 D70 D71 D72 D73 D74 D75 D76 D77 D78 D79 D80 D81 D82 D83 D84 D85 D86 D87 D88 D89 D90 D91 D92 D93 D94 D95 D96 D97 D98 D99 D100

ZONE PROJECTIONS

YEAR D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12

D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32 D33 D34 D35 D36 D37 D38 D39 D40 D41 D42 D43 D44 D45 D46 D47 D48 D49 D50 D51 D52 D53 D54 D55 D56 D57 D58 D59 D60 D61 D62 D63 D64 D65 D66 D67 D68 D69 D70 D71 D72 D73 D74 D75 D76 D77 D78 D79 D80 D81 D82 D83 D84 D85 D86 D87 D88 D89 D90 D91 D92 D93 D94 D95 D96 D97 D98 D99 D100

YEAR D15 D17 D20

UDA TOTAL MNA DVA CIA DVA MNA UDA TOTAL

POPULATION

AVERAGE DRY WEATHER FLOW

PEAK DRY WEATHER FLOW

PEAK WET WEATHER FLOW

1985 0
1990 0
1995 0
2000 0
2005 0
2010 0
SATURATION 2,193

0.000
0.000
0.000
0.000
0.000
0.000
0.164

0.000
0.000
0.000
0.000
0.000
0.000
0.358

0.000
0.000
0.000
0.000
0.000
0.000
0.380

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	535.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	535.00
SATURATION ACRES	0.00	0.00	281.00	149.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	535.00

YEAR	D15	D17	D20	C1A	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	535.00	535.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	535.00	535.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	535.00	535.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	535.00	535.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	535.00	535.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	535.00	535.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	6,058	0.459	0.892	0.999

ZONE NAME: D0802 DATA ACTIVE: 2000 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 33.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL		
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00	
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
SATURATION ACRES	0.00	0.00	0.00	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00

POPULATION	D15	D17	D20	C1A	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
SATURATION ACRES	0.00	0.00	0.00	0.00	33.00	0.00	0.00	33.00

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00

YEAR	D15	D17	D20	C1A	DVA	MNA	UDA	TOTAL	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00	0.000	0.000
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00	0.000	0.000
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00	0.000	0.000
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00	0.000	0.000
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00	0.000	0.000
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00	0.000	0.101

POPULATION 0

502

ZONE NAME: D0803 DATA ACTIVE: 2000
 CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 43.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

P1	P2	P3	P4	P5
0.000	0.000	0.000	0.000	0.000

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00
0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00
0.00	0.00	0.00	0.00	37.00	6.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	562	0.042	0.111	0.120

ZONE NAME: D0804 DATA ACTIVE: 2000 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 29.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MLL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BEGIN ACRES	END ACRES	SATURATION ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	26.00	0.00	0.00	0.00	29.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	29.00	29.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	29.00	29.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	29.00	29.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	29.00	29.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	29.00	29.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	29.00	29.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	0	0.026	0.078	0.084

ZONE NAME: D0901 DATA ACTIVE: 1990
CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5
BEGIN ACRES	D1	D2	D4	D5	D6
END ACRES	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	C1A	DVA
END ACRES	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00

D11	D7	D12
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
UDA	MNA	TOTAL
0.00	0.00	640.00
0.00	0.00	
0.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

UDA	MNA	TOTAL
640.00	640.00	640.00
640.00	640.00	640.00
640.00	640.00	640.00
640.00	640.00	640.00
640.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	0	0.000	0.000	0.000

ZONE NAME: D1701 DATA ACTIVE: 2000 PROJECTION MODE: LOGS TOTAL ACRES: 393.00

CURVE CONSTANT: .25 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 POPULATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00
SATURATION ACRES	22.00	78.00	159.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00

BEGIN ACRES D15 D17 D20 CIA DVA MNA UDA TOTAL

END ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00	393.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00	393.00
0.00	0.00	0.00	51.00	0.00	310.00	83.00	0.00	393.00

SATURATION ACRES D15 D17 D20 CIA DVA MNA UDA TOTAL

YEAR	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR D15 D17 D20 CIA DVA MNA UDA TOTAL

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	393.00	393.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	393.00	393.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	393.00	393.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	393.00	393.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	393.00	393.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	393.00	393.00

POPULATION

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	2,738	0.256	0.587	0.666

ZONE NAME: D1702 DATA ACTIVE: 2000 PROJECTION MODE: ARI TOTAL ACRES: 54.00

CURVE CONSTANT: .00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	54.00	54.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	54.00	54.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	54.00	54.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	54.00	54.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	54.00	54.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	54.00	54.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,004	0.075	0.182	0.193

ZONE NAME: D1703

DATA ACTIVE: 2000

CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 56.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

POPULATION VARIANCE FACTOR: 1.00

BEGIN ACRES

END ACRES

SATURATION ACRES

BEGIN ACRES

END ACRES

SATURATION ACRES

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

CURVE CONSTANT: .00

DATA ACTIVE: 2000

ZONE NAME: D1703

PROJECTION MODE: ARI

TOTAL ACRES: 56.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

POPULATION VARIANCE FACTOR: 1.00

BEGIN ACRES

END ACRES

SATURATION ACRES

BEGIN ACRES

END ACRES

SATURATION ACRES

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

CURVE CONSTANT: .00

DATA ACTIVE: 2000

ZONE NAME: D1703

PROJECTION MODE: ARI

TOTAL ACRES: 56.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

POPULATION VARIANCE FACTOR: 1.00

BEGIN ACRES

END ACRES

SATURATION ACRES

BEGIN ACRES

END ACRES

SATURATION ACRES

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

CURVE CONSTANT: .00

DATA ACTIVE: 2000

ZONE NAME: D1703

PROJECTION MODE: ARI

TOTAL ACRES: 56.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

POPULATION VARIANCE FACTOR: 1.00

BEGIN ACRES

END ACRES

SATURATION ACRES

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	56.00	56.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	56.00	56.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	56.00	56.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	56.00	56.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	56.00	56.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	56.00	56.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	763	0.057	0.144	0.155

ZONE NAME: DL704 DATA ACTIVE: 2000 PROJECTION MODR: ARI TOTAL ACRES: 137.00

CURVE CONSTANT: .00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	137.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	137.00
SATURATION ACRES	0.00	0.00	0.00	97.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	137.00

BEGIN ACRES D15 D17 D20 CIA DVA MNA UDA TOTAL

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	137.00	137.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	137.00	137.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	137.00	137.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	137.00	137.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	137.00	137.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	137.00	137.00

END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 137.00 137.00

SATURATION ACRES 0.00 0.00 0.00 0.00 112.00 25.00 0.00

ZONE PROJECTIONS

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	137.00	137.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	137.00	137.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	137.00	137.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	137.00	137.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	137.00	137.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	137.00	137.00

POPULATION 0 0 0 0 0 1,753

AVERAGE DRY WEATHER FLOW 0.000 0.000 0.000 0.000 0.000 0.132

PEAK DRY WEATHER FLOW 0.000 0.000 0.000 0.000 0.000 0.294

PEAK WET WEATHER FLOW 0.000 0.000 0.000 0.000 0.000 0.322

SATURATION 0 0 0 0 0 1,753

ZONE NAME: D1801 DATA ACTIVE: 2000 PROJECTION MODE: LOGS TOTAL ACRES: 369.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 CURVE CONSTANT: .25 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	P6	P7	P8	P9	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	P6	P7	P8	P9	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	43.00	0.00	0.00	35.00	0.00	278.00	91.00	0.00	0.00	369.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

YEAR	D15	D17	D20	C1A	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	369.00	369.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	369.00	369.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	369.00	369.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	369.00	369.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	369.00	369.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	369.00	369.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	4,489	0.372	0.777	0.851

ZONE NAME: D1802 DATA ACTIVE: 2000 PROJECTION MODE: ARI TOTAL ACRES: 128.00

CURVE CONSTANT: .00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	103.00	0.00	0.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	128.00	128.00
SATURATION ACRES	0.00	0.00	0.00	0.00	103.00	25.00	128.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	
1985	0.00	0.00	0.00	0.00	0.00	0.00	128.00	128.00	
1990	0.00	0.00	0.00	0.00	0.00	0.00	128.00	128.00	
1995	0.00	0.00	0.00	0.00	0.00	0.00	128.00	128.00	
2000	0.00	0.00	0.00	0.00	0.00	0.00	128.00	128.00	
2005	0.00	0.00	0.00	0.00	0.00	0.00	128.00	128.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	128.00	128.00	

POPULATION

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,566	0.117	0.267	0.292

ZONE NAME: D1901 DATA ACTIVE: 2000 PROJECTION MODE: API

CURVE CONSTANT: .00

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY) P1 0.000 P2 0.000 P3 0.000 P4 0.000 P5 0.000

BEGIN ACRES D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D11 0.10 D12 0.00
 END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 60.00

BEGIN ACRES D15 0.00 D17 0.00 D20 0.00 DVA 0.00 MNA 0.00 UDA 160.00 TOTAL 160.00
 END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 160.00
 SATURATION ACRES 0.00 0.00 0.00 12.00 72.00 88.00 0.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.10	0.03	159.88	160.00
1990	0.00	0.00	0.00	0.00	0.08	0.02	159.90	160.00
1995	0.00	0.00	0.00	0.00	0.06	0.01	159.93	160.00
2000	0.00	0.00	0.00	0.00	0.04	0.01	159.95	160.00
2005	0.00	0.00	0.00	0.00	0.02	0.00	159.97	160.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	160.00	160.00

AVERAGE DRY WEATHER FLOW

PEAK DRY WEATHER FLOW

PEAK WET WEATHER FLOW

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	2	0.000	0.000	0.001
1990	1	0.000	0.000	0.000
1995	1	0.000	0.000	0.000
2000	1	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,380	0.115	0.275	0.307

ZONE NAME: D1902 DATA ACTIVE: 2000 PROJECTION MODE: ARI
 CURVE CONSTANT: .00 TOTAL ACRES: 487.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MLL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.00
SATURATION ACRES	0.00	0.00	0.00	162.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00	0.00	487.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.00

AVERAGE DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	6,062	1.505

PEAK DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	6,062	1.125

ZONE NAME: D2001 DATA ACTIVE: 2015 PROJECTION MODE: GEOM
 CURVE CONSTANT: .20 TOTAL ACRES: 633.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	120.00	0.00	290.00	0.00	0.00

YEAR	ZONE PROJECTIONS												TOTAL	
	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12		
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.00

YEAR	AVERAGE DRY WEATHER FLOW												TOTAL	
	D15	D17	D20	C1A	DVA	MNA	UDA	D11	D12	WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW		
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.00

YEAR	POPULATION	
	POPULATION	WEATHER FLOW
1985	0	0.005-
1990	83	0.019
1995	227	0.051
2000	477	0.099
2005	914	0.176
2010	1,674	0.301
SATURATION	6,009	1.027

ZONE NAME: D2901 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY) P1 P2 P3 P4 P5

BEGIN ACRES D1 D2 D3 D4 D5 D6 D7 D11 D12
 END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

BEGIN ACRES D15 D17 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32
 END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000

ZONE NAME: D3001 DATA ACTIVE: 1990
CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00
POPULATION VARIANCE FACTOR: .00

COMMERCIAL G/A/D VARIANCE FACTOR: .00
INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES
(MIL/GAL/DAY)

F1 0.000 F2 0.000 F3 0.000 F4 0.000 F5 0.000

BEGIN ACRES 0.00
END ACRES 0.00
SATURATION ACRES 0.00

D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00

D11 0.00 D12 0.00
D13 0.00 D14 0.00

BEGIN ACRES 0.00
END ACRES 0.00
SATURATION ACRES 0.00

D15 0.00 D16 0.00 D17 0.00 D18 0.00 D19 0.00 D20 0.00

UDA 0.00
MNA 0.00
DVA 0.00
TOTAL 0.00

ZONE PROJECTIONS

YEAR 1985 1990 1995 2000 2005 2010
D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D8 0.00 D9 0.00 D10 0.00 D11 0.00 D12 0.00 D13 0.00 D14 0.00 D15 0.00 D16 0.00 D17 0.00 D18 0.00 D19 0.00 D20 0.00

UDA 0.00
MNA 0.00
DVA 0.00
TOTAL 0.00

YEAR 1985 1990 1995 2000 2005 2010
D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00

UDA 0.00
MNA 0.00
DVA 0.00
TOTAL 0.00

POPULATION 0
WEATHER FLOW 0.000
AVERAGE DRY WEATHER FLOW 0.000
PEAK DRY WEATHER FLOW 0.000
PEAK WET WEATHER FLOW 0.000

WEATHER FLOW 0.000
AVERAGE DRY WEATHER FLOW 0.000
PEAK DRY WEATHER FLOW 0.000
PEAK WET WEATHER FLOW 0.000

ZONE NAME: D3101 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000

ZONE NAME: D3201 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	0	0.000	0.000	0.000

ZONE NAME: E0101 DATA ACTIVE: 1990 PROJECTION MODE: ARI

TOTAL ACRES: 0.00

COMMERCIAL G/A/D VARIANCE FACTOR: .00

INFILTRATION VARIANCE FACTOR: .00

CURVE CONSTANT: .00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY)

P1 P2 P3 P4 P5

BEGIN ACRES 0.00
END ACRES 0.80
SATURATION ACRES 0.00

D1 D2 D3 D4 D5 D6 D7 D11 D12

BEGIN ACRES 0.00
END ACRES 0.00
SATURATION ACRES 0.00

D15 D17 D20 CIA DVA MNA UDA TOTAL

ZONE PROJECTIONS

YEAR 1985 1990 1995 2000 2005 2010

D15 D17 D20 CIA DVA MNA UDA TOTAL

POPULATION 0 0 0 0 0 0

AVERAGE DRY WEATHER FLOW 0.000 0.000 0.000 0.000 0.000 0.000

PEAK DRY WEATHER FLOW 0.000 0.000 0.000 0.000 0.000 0.000

PEAK WET WEATHER FLOW 0.000 0.000 0.000 0.000 0.000 0.000

ZONE NAME: E0201 DATA ACTIVE: 2015 PROJECTION MODE: GEOM

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MILL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000

YEAR	SATURATION
1985	0
1990	0
1995	0
2000	0
2005	0
2010	0

ZONE NAME: E1201 DATA ACTIVE: 2015 PROJECTION MODE: GEOM

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVERAGE DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

PEAK DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

PEAK WET WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

ZONE NAME: F0501 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY) P1 P2 P3 P4 P5

BEGIN ACRES D1 D2 D3 D4 D5 D6 D7 D11 D12
END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

ZONE PROJECTIONS

YEAR D15 D17 D20 D2 D4 D5 D6 D7 D11 D12
1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

YEAR D15 D17 D20 D2 D4 D5 D6 D7 D11 D12
1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

YEAR POPULATION AVERAGE DRY WEATHER FLOW PEAK DRY WEATHER FLOW PEAK WET WEATHER FLOW
1985 0 0.000 0.000 0.000
1990 0 0.000 0.000 0.000
1995 0 0.000 0.000 0.000
2000 0 0.000 0.000 0.000
2005 0 0.000 0.000 0.000
2010 0 0.000 0.000 0.000
SATURATION 0 0.000 0.000 0.000

ZONE NAME: F0701 DATA ACTIVE: 2015 PROJECTION MODE: GEOM

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY) P1 P2 P3 P4 P5

BEGIN ACRES D1 D2 D3 D4 D5 D6 D7 D11 D12

END ACRES D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

SATURATION ACRES D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

BEGIN ACRES D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

END ACRES D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

SATURATION ACRES D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

POPULATION D17 D20 D21 D22 D23 D24 D25 D26 D27

AVERAGE DRY WEATHER FLOW D17 D20 D21 D22 D23 D24 D25 D26 D27

PEAK DRY WEATHER FLOW D17 D20 D21 D22 D23 D24 D25 D26 D27

PEAK WET WEATHER FLOW D17 D20 D21 D22 D23 D24 D25 D26 D27

POPULATION 0 0 0 0 0 0 0 0 0

AVERAGE DRY WEATHER FLOW 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

PEAK DRY WEATHER FLOW 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

PEAK WET WEATHER FLOW 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

ZONE NAME: F0801 DATA ACTIVE: 2015
 CURVE CONSTANT: .00 TOTAL ACRES: 0.00

PROJECTION MODE: GEOM

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00
 POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL./GAL/DAY)	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000

ZONE NAME: F1801 DATA ACTIVE: 2015 PROJECTION MODE: ARI

TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

CURVE CONSTANT: .00

POINT SOURCES (MIL/GAL/DAY) F1 0.000 F2 0.000 F3 0.000 F4 0.000 F5 0.000

BEGIN ACRES D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D8 0.00 D9 0.00 D10 0.00 D11 0.00 D12 0.00 D13 0.00 D14 0.00 D15 0.00 D16 0.00 D17 0.00 D18 0.00 D19 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00 D31 0.00 D32 0.00 D33 0.00 D34 0.00 D35 0.00 D36 0.00 D37 0.00 D38 0.00 D39 0.00 D40 0.00 D41 0.00 D42 0.00 D43 0.00 D44 0.00 D45 0.00 D46 0.00 D47 0.00 D48 0.00 D49 0.00 D50 0.00 D51 0.00 D52 0.00 D53 0.00 D54 0.00 D55 0.00 D56 0.00 D57 0.00 D58 0.00 D59 0.00 D60 0.00 D61 0.00 D62 0.00 D63 0.00 D64 0.00 D65 0.00 D66 0.00 D67 0.00 D68 0.00 D69 0.00 D70 0.00 D71 0.00 D72 0.00 D73 0.00 D74 0.00 D75 0.00 D76 0.00 D77 0.00 D78 0.00 D79 0.00 D80 0.00 D81 0.00 D82 0.00 D83 0.00 D84 0.00 D85 0.00 D86 0.00 D87 0.00 D88 0.00 D89 0.00 D90 0.00 D91 0.00 D92 0.00 D93 0.00 D94 0.00 D95 0.00 D96 0.00 D97 0.00 D98 0.00 D99 0.00 D100 0.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000

SATURATION ACRES 0.00

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	38.30	218.00	0.00	0.00	0.00	0.00
1990	244.62	319.48	103.61	218.05	0.00	39.55	20.80	0.00
1995	255.74	334.98	129.39	227.34	0.00	55.32	40.80	0.00
2000	266.86	434.31	323.90	363.53	0.00	95.23	60.84	0.00
2005	277.98	467.59	360.55	387.94	0.00	106.08	80.82	0.00
2010	289.10	480.50	372.40	388.10	0.00	116.20	100.80	0.00

YEAR	D15	D17	D20	C1A	DVA	MNA	UDA	TOTAL
1985	41.00	10.00	2.00	38.70	348.00	84.25	2,153.75	2,586.00
1990	41.02	12.00	2.00	90.64	1,091.75	296.729	5,280.76	6,668.80
1995	43.76	14.00	2.00	120.60	1,223.93	329.34	5,115.52	6,668.80
2000	130.33	16.00	2.00	211.46	1,904.47	499.47	7,144.85	9,548.80
2005	150.85	18.00	2.00	242.80	2,094.60	546.99	6,907.20	9,548.80
2010	151.00	20.00	2.00	264.60	2,184.70	569.53	6,794.57	9,548.80

AVERAGE DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	5,193	0.450
1990	10,199	0.921
1995	11,604	1.056
2000	20,382	1.806
2005	22,645	2.006
2010	23,534	2.095

PEAK DRY WEATHER FLOW

YEAR	WEATHER FLOW
1985	1.002
1990	2.268
1995	2.622
2000	4.167
2005	4.576
2010	4.775

PEAK WET WEATHER FLOW

YEAR	WEATHER FLOW
1985	1.089
1990	2.549
1995	2.933
2000	4.649
2005	5.105
2010	5.327

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	233.50	306.70	91.90	218.00	0.00	29.40	0.90	0.00
1990	244.62	319.48	103.61	218.05	0.00	39.55	25.47	0.00
1995	255.74	334.98	129.39	227.34	0.00	55.32	53.45	0.00
2000	265.86	434.31	323.90	363.53	0.00	95.23	87.36	0.00
2005	277.98	467.59	360.55	387.94	0.00	106.08	131.60	0.00
2010	289.10	480.50	372.40	388.10	0.00	116.20	193.80	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	41.00	10.00	2.00	68.90	1,002.30	250.67	8,928.84	10,181.80
1990	41.02	12.00	2.00	90.64	1,096.43	274.21	8,811.16	10,181.80
1995	43.76	14.00	2.00	120.60	1,236.59	309.25	8,635.95	10,181.80
2000	130.33	16.00	2.00	211.46	1,930.99	482.85	7,767.94	10,181.80
2005	150.85	18.00	2.00	242.80	2,145.38	536.43	7,499.98	10,181.80
2010	151.00	20.00	2.00	264.60	2,277.70	569.53	7,334.57	10,181.80

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	9,321	0.833	2.031	2.284
1990	10,283	0.927	2.290	2.568
1995	11,832	1.073	2.674	2.984
2000	20,859	1.842	4.264	4.748
2005	23,559	2.075	4.744	5.281
2010	25,208	2.221	5.058	5.628
SATURATION	88,309	7.519	16.503	18.352

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER SKELETON SYSTEM

NUMBER OF ZONES: 64 NUMBER OF SEWERS: 55

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: EXTRA SECTION #: 0 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
0 0 0 0 0 0 0 0

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 0

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0
SAT	0	0	0	0	0	0	0

SEMSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: GA01A SECTION #: 0 BASE MAP: 0

DIAMETER 0 LENGTH 0 SLOPE .0026 INSTALLED 0 MATERIAL PVC ROUGHNESS .01 CAPACITY 1.531

TRIBUTARY CONTRIBUTION 1 NUMBER OF TRIBUTARIES: 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	1.531
1990	0	0	0	0 *	0 *	0 *	1.531
1995	0	0	0	0 *	0 *	0 *	1.531
2000	0	0	0	0 *	0 *	0 *	1.531
2005	0	0	0	0 *	0 *	0 *	1.531
2010	0	0	0	0 *	0 *	0 *	1.531
SAT	6062	362	50	.505	1.027	1.125	1.531

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC002 SECTION #: 11 BASE MAP: 0

DIAMETER 8 LENGTH 0 SLOPE .005 INSTALLED MATERIAL ROUGHNESS CAPACITY
 0 .013 .554

TRIBUTARY CONTRIBUTION .5 NUMBER OF TRIBUTARIES: 1
 C1104

YEAR	POPS	TRAS	CIAS	ADMFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	.554
1990	1	.05	.01	0 *	0 *	0 *	.554
1995	189	12.53	3.54	.018 *	.055 *	.059	.554
2000	1293	86.55	23.14	.12	.296	.323	.554
2005	1317	88.15	23.6	.122	.301	.329	.554
2010	1317	88.15	23.6	.122	.301	.329	.554
SAT	1319	88.3	23.6	.122	.301	.329	.554

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC016 SECTION #: 10 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .007 0 .013 1.189

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 4

C0104 .6
 C1202 .25
 SC017 1
 SC024 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	1.189
1990	3026	484.05	29.61	.256	.563	.692	1.189
1995	3239	504.44	44.41	.286	.637	.774	1.189
2000	3453	524.82	59.22	.318	.71	.857	1.189
2005	3665	545.21	74.02	.347	.783	.939	1.189
2010	3880	565.6	88.83	.379	.857	1.021	1.189
SAT	3714	565.6	88.83	.366	.834	1.001	1.189

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC017 SECTION #: 12 BASE MAP: 0

DIAMETER 8 LENGTH 0 SLOPE .0044 MATERIAL INSTALLED 0 ROUGHNESS .013 CAPACITY .52

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 3

C0103 .35
 C1201 1
 SC018 1

YEAR	POPS	TRAS	CIAS	ADWFS	EDWFS	PWFS	CAP
1985	0	0	0	0 *	0 *	0 *	.52
1990	2358	426.62	3.32	.179	.391	.499 *	.52
1995	2377	432.31	3.32	.18	.394	.503 *	.52
2000	2397	437.99	3.32	.182	.397	.507 *	.52
2005	2417	443.68	3.32	.183	.399	.512 *	.52
2010	2437	449.36	3.32	.185	.402	.516 *	.52
SAT	2437	449.36	3.32	.185	.402	.518 *	.52

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC018 SECTION #: 11 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 8 0 .0044 0 .013 .52

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 3

C1102 1
 C1103 1
 SC019 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	.52
1990	1840	278.8	0	.137	.307	.377	.52
1995	1840	278.8	0	.137	.307	.377	.52
2000	1840	278.8	0	.137	.307	.377	.52
2005	1840	278.8	0	.137	.307	.377	.52
2010	1840	278.8	0	.137	.307	.377	.52
SAT	1840	278.8	0	.137	.307	.379	.52

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC019 SECTION #: 10 BASE MAP: 0

DIAMETER 8 LENGTH 0 SLOPE .0044 MATERIAL INSTALLED 0 ROUGHNESS .013 CAPACITY .52

TRIBUTARY CONTRIBUTION 1 NUMBER OF TRIBUTARIES: 1

C1101

YEAR	POPS	TRAS	CIAS	ADWFS	EDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	.52
1990	845	128	0	.063	.157	.189	.52
1995	845	128	0	.063	.157	.189	.52
2000	845	128	0	.063	.157	.189	.52
2005	845	128	0	.063	.157	.189	.52
2010	845	128	0	.063	.157	.189	.52
SAT	845	128	0	.063	.157	.189	.52

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC024 SECTION #: 12 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 8 0 .0044 0 .013 .52

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1

CL202 .75

YEAR	POPS	TRAS	CITAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	.52
1990	123	9.16	12.67	.022 *	.07	.075	.52
1995	245	18.33	22.05	.041 *	.122	.132	.52
2000	368	27.49	31.42	.059	.172	.187	.52
2005	491	36.66	40.8	.077	.221	.241	.52
2010	614	45.83	50.18	.096	.27	.294	.52
SAT	614	45.83	50.18	.096	.27	.294	.52

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC025 SECTION #: 12 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 15 0 .0021 0 .01 2.495

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

C1204 1
 SC026 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDMFS	PWFWS	CAP
1985	0	0	0	.022 *	.154 *	.154 *	2.495
1990	1	-1	.03	.051 *	.154 *	.154 *	2.495
1995	378	25.06	7.08	.086 *	.255	.263	2.495
2000	2585	173.11	46.29	.291	.706	.761	2.495
2005	2633	176.3	47.2	.296	.715	.771	2.495
2010	2633	176.3	47.2	.296	.715	.771	2.495
SAT	7306	441.25	157.2	.756	1.662	1.808	2.495

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC026 SECTION #: 12 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .0038 0 .01 1.851

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 3

C1203 1
 SC027 1
 SC036 1

YEAR	POPS	TRAS	CIAS	ADWFS	PWFWS	PWFWS	CAP
1985	0	0	0	0 *	.088 *	.088 *	1.851
1990	1	.1	.03	.029 *	.088 *	.068 *	1.851
1995	378	25.06	7.08	.064 *	.189	.197	1.851
2000	2585	173.11	46.29	.269	.64	.695	1.851
2005	2633	176.3	47.2	.274	.649	.705	1.851
2010	2633	176.3	47.2	.274	.649	.705	1.851
SAT	6444	399.25	57.2	.569	1.186	1.3	1.851

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC027 SECTION #: 11 BASE MAP: 0

DIAMETER 8 LENGTH 0 SLOPE .009 INSTALLED 0 MATERIAL .01 ROUGHNESS .01 CAPACITY .967

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

C1104 .5
SC002 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	.967
1990	1	.1	.03	0 *	0 *	0 *	.967
1995	378	25.06	7.08	.035 *	.101	.109	.967
2000	2585	173.11	46.29	.24	.552	.607	.967
2005	2633	176.3	47.2	.245	.561	.617	.967
2010	2633	176.3	47.2	.245	.561	.617	.967
SAT	2637	176.6	47.2	.245	.562	.618	.967

SEWYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC033 SECTION #: 13 BASE MAP: 0
 DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .0026 0 .013 .724

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

C1301 .3
 C1401 .35

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	32	2.4	0	.002 *	.056 *	.057 *	.724
1990	32	2.38	0	.018 *	.056 *	.057 *	.724
1995	23	1.72	0	.018 *	.054 *	.054 *	.724
2000	2	.1	0	.016 *	.048 *	.048 *	.724
2005	0	0	0	.016 *	.047 *	.047 *	.724
2010	0	0	0	.016 *	.047 *	.047 *	.724
SAT	2911	181.05	0	.234	.506	.558	.724

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC035 SECTION #: 13 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .6 0 .013 1.101

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1

C1301 .7

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFS	CAP
1985	76	5.6	0	.006 *	.02 *	.022 *	1.101
1990	75	5.56	0	.006 *	.02 *	.022 *	1.101
1995	55	4.02	0	.004 *	.015 *	.016 *	1.101
2000	4	.23	0	0 *	.001 *	.001 *	1.101
2005	0	.01	0	0 *	0 *	0 *	1.101
2010	0	0	0	0 *	0 *	0 *	1.101
SAT	4425	307.3	0	.332	.663	.752	1.101

SEWST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC036 SECTION #: 14 BASE MAP: 0
 DIAMETER 8 LENGTH 0 SLOPE .0044 MATERIAL INSTALLED 0 ROUGHNESS .013 CAPACITY .52

TRIBUTARY CONTRIBUTION .65 NUMBER OF TRIBUTARIES: 1
 C1401

YEAR	POFS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	.088	.088	.52
1990	0	0	0	.029 *	.088	.088	.52
1995	0	0	0	.029 *	.088	.088	.52
2000	0	0	0	.029 *	.088	.088	.52
2005	0	0	0	.029 *	.088	.088	.52
2010	0	0	0	.029 *	.088	.088	.52
SAT	1884	91.65	0	.17	.401	.427	.52

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD001 SECTION #: 6 BASE MAP: 0

DIAMETER 8 LENGTH 0 SLOPE .004 INSTALLED MATERIAL ROUGHNESS CAPACITY
 0 0 .013 .496

TRIBUTARY CONTRIBUTION .38 NUMBER OF TRIBUTARIES: 1
 D0701

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	.496
1990	0	0	0	0 *	0 *	0 *	.496
1995	0	0	0	0 *	0 *	0 *	.496
2000	0	0	0	0 *	0 *	0 *	.496
2005	0	0	0	0 *	0 *	0 *	.496
2010	0	0	0	0 *	0 *	0 *	.496
SAT	433	28.5	40.28	.073	.21	.212	.496

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD003 SECTION #: 6 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .0036 0 .013 .852

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D0603 .5
 SD001 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	2186	129.5	10	.174	.387	.422	.852
1990	2186	129.5	10	.174	.387	.422	.852
1995	2186	129.5	10	.174	.387	.422	.852
2000	2186	129.5	10	.174	.387	.422	.852
2005	2186	129.5	10	.174	.387	.422	.852
2010	2186	129.5	10	.174	.387	.422	.852
SAT	2619	158	50.28	.247	.569	.606	.852

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD002 SECTION #: 7 EASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 8 0 .004 0 .013 .496

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D0603 .4
 D0702 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	1748	103.6	8	.139	.318	.346	.496
1990	1748	103.6	8	.139	.318	.346	.496
1995	1748	103.6	8	.139	.318	.346	.496
2000	1748	103.6	8	.139	.318	.346	.496
2005	1748	103.6	8	.139	.318	.346	.496
2010	1748	103.6	8	.139	.318	.346	.496
SAT	2018	123.6	8	.159	.357	.386	.496

SEMSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD004 SECTION #: 7 BASE MAP: 0
 DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .0044 0 .013 .942

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D0703 .5
 SD008 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	.942
1990	0	0	0	0 *	0 *	0 *	.942
1995	0	0	0	0 *	0 *	0 *	.942
2000	0	0	0	0 *	0 *	0 *	.942
2005	0	0	0	0 *	0 *	0 *	.942
2010	0	0	0	0 *	0 *	0 *	.942
SAT	1176	83.5	40.28	.128	.329	.332	.942

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD005 SECTION #: 5 BASE MAP: 0

DIAMETER 27 LENGTH 0 SLOPE .007 INSTALLED 0 MATERIAL .013 ROUGHNESS .013 CAPACITY 16.791

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

SD004 1
SD011 1

YEAR	POPS	TRAS	CIAS	ADWFS	PWFS	PWFWS	CAP
1985	108	8	0	.03 *	.229 *	.231 *	16.791
1990	108	8.05	.03	.075 *	.229 *	.231 *	16.791
1995	456	30.81	7.08	.108 *	.315 *	.325 *	16.791
2000	2591	173.48	46.29	.307 *	.754 *	.809 *	16.791
2005	2633	176.33	47.2	.312 *	.762 *	.818 *	16.791
2010	2633	176.3	47.2	.312 *	.762 *	.818 *	16.791
SAT	46587	2994.85	456.42	4.017	7.19	8.009	16.791

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD006 SECTION #: 5 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 27 0 .0025 0 .013 10.035

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 4

D0602 .25
 SD002 1
 SD003 1
 SD005 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFPS	CAP
1985	4042	241.1	18	.343 *	.867 *	.933 *	10.035
1990	4277	256.87	19.68	.407 *	.903 *	.975 *	10.035
1995	4678	281.95	27.26	.445 *	.98 *	1.059	10.035
2000	6867	426.94	66.99	.649 *	1.383	1.508	10.035
2005	6963	432.11	68.43	.658 *	1.399	1.527	10.035
2010	7017	434.4	68.95	.663 *	1.408	1.536	10.035
SAT	51674	3301.45	518.45	4.461	7.944	8.838	10.035

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD007 SECTION #: 5 BASE MAP: 0

DIAMETER 27 LENGTH 0 SLOPE .003 INSTALLED 0 MATERIAL .013 ROUGHNESS 10.992 CAPACITY 10.992

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

SD006 1

SD067 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	4479	267	20	.378 *	.931 *	1.004 *	10.992
1990	8444	813.98	56.24	.756 *	1.55	1.773	10.992
1995	9220	866.41	80.19	.837 *	1.719	1.961	10.992
2000	11784	1038.74	136.31	1.087 *	2.204	2.503	10.992
2005	12254	1071.26	154.12	1.139	2.315	2.627	10.992
2010	12684	1100.9	171.03	1.189	2.418	2.741	10.992
SAT	57175	3967.95	620.52	4.974	8.861	9.952 *	10.992

SEMSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD008 SECTION #: 7 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .0044 0 .013 .942

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1
 D0701 .38

YEAR	POPS	TRAS	CIAS	ADWFS	PDMFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	.942
1990	0	0	0	0 *	0 *	0 *	.942
1995	0	0	0	0 *	0 *	0 *	.942
2000	0	0	0	0 *	0 *	0 *	.942
2005	0	0	0	0 *	0 *	0 *	.942
2010	0	0	0	0 *	0 *	0 *	.942
SAT	433	28.5	40.28	.073 *	.21	.212	.942

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD01A SECTION #: 34 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 24 0 .0011 0 PVC .01 6.321

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

SD09B 1
 SD10B 1

YEAR	POPS	TRAS	CIAS	ADWFS	EDWFS	PWFS	CAP
1985	108	8	0	.008 *	.076 *	.078 *	6.321
1990	107	7.95	0	.024 *	.075 *	.077 *	6.321
1995	78	5.75	0	.022 *	.068 *	.07 *	6.321
2000	6	.37	0	.016 *	.049 *	.049 *	6.321
2005	0	.03	0	.016 *	.047 *	.047 *	6.321
2010	0	0	0	.016 *	.047 *	.047 *	6.321
SAT	37089	2397.1	233.5	3.031	5.298	5.965 *	6.321

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD01B SECTION #: 340 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 24 0 .0069 0 PVC .01 15.855

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1

SD01A 1

YEAR	POPS	TRAS	CIAS	ADMFS	PDWFS	PWFS	CAP
1985	108	8	0	.008 *	.076 *	.078 *	15.855
1990	107	7.95	0	.024 *	.075 *	.077 *	15.855
1995	78	5.75	0	.022 *	.068 *	.07 *	15.855
2000	6	.37	0	.016 *	.049 *	.049 *	15.855
2005	0	.03	0	.016 *	.047 *	.047 *	15.855
2010	0	0	0	.016 *	.047 *	.047 *	15.855
SAT	37089	2397.1	233.5	3.031	5.298	5.965	15.855

SENSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD010 SECTION #: 7 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .0044 0 .01 1.992

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D0703 .5
 SD012 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	.022 *	.154 *	.154 *	1.992
1990	1	.1	.03	.051 *	.154 *	.154 *	1.992
1995	378	25.06	7.08	.086 *	.255	.263	1.992
2000	2585	173.11	46.29	.291	.706	.761	1.992
2005	2633	176.3	47.2	.296	.715	.771	1.992
2010	2633	176.3	47.2	.296	.715	.771	1.992
SAT	8322	514.25	182.64	.858	1.867 *	2.015 *	1.992

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD011 SECTION #: 8 BASE MAP: 0
 DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 24 0 .0042 0 PVC .01 12.352

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	108	8	0	.03 *	.229 *	.231 *	12.352
1990	108	8.05	.03	.075 *	.229 *	.231 *	12.352
1995	456	30.81	7.08	.108 *	.315 *	.325 *	12.352
2000	2591	173.48	46.29	.307 *	.754 *	.809 *	12.352
2005	2633	176.33	47.2	.312 *	.762 *	.818 *	12.352
2010	2633	176.3	47.2	.312 *	.762 *	.818 *	12.352
SAT	45411	2911.35	416.14	3.889	6.938	7.753	12.352

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD012 SECTION #: 7 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .0046 0 .01 2.037

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D0701 .24
 SC025 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	.022 *	.154 *	.154 *	2.037
1990	1	.1	.03	.051 *	.154 *	.154 *	2.037
1995	378	25.06	7.08	.086 *	.255	.263	2.037
2000	2585	173.11	46.29	.291	.706	.761	2.037
2005	2633	176.3	47.2	.296	.715	.771	2.037
2010	2633	176.3	47.2	.296	.715	.771	2.037
SAT	7579	459.25	182.64	.802	1.773	1.921 *	2.037

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD03A SECTION #: 4 BASE MAP: 0

DIAMETER 30 LENGTH 0 SLOPE .0013 MATERIAL INSTALLED PVC ROUGHNESS .01 CAPACITY 12.458

TRIBUTARY CONTRIBUTION .25 NUMBER OF TRIBUTARIES: 2

D0401 1
SDS04 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	4479	267	20	.378 *	.931 *	1.004 *	12.458
1990	8595	828.12	56.25	.767 *	1.569	1.796	12.458
1995	9699	906.35	81.41	.874 *	1.783	2.035	12.458
2000	18176	1472.04	167.48	1.597	3.067	3.483	12.458
2005	20139	1606.88	194.02	1.77	3.379	3.835	12.458
2010	20727	1651.2	211.03	1.832	3.499	3.97	12.458
SAT	78693	5628.45	721.52	6.686	11.525 *	13.057 *	12.458

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD03B SECTION #: 4 EASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 24 0 .0013 0 PVC .01 18.181

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1

SD03A

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFS	CAP
1985	4479	267	20	.378 *	.931 *	1.004 *	18.181
1990	8595	828.12	56.25	.767 *	1.569 *	1.796 *	18.181
1995	9699	906.35	81.41	.874 *	1.783 *	2.035	18.181
2000	18176	1472.04	167.48	1.597 *	3.067	3.483	18.181
2005	20139	1606.88	194.02	1.77 *	3.379	3.835	18.181
2010	20727	1651.2	211.03	1.832	3.499	3.97	18.181
SAT	78693	5628.45	721.52	6.688	11.525	13.057	18.181

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD06A SECTION #: 5 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 16 0 .0296 0 .011 10.113

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1
 SD007 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	4479	267	20	.378 *	.931 *	1.004 *	10.113
1990	8444	813.98	56.24	.756 *	1.55	1.773	10.113
1995	9220	866.41	80.19	.837 *	1.719	1.961	10.113
2000	11784	1038.74	136.31	1.087	2.204	2.503	10.113
2005	12254	1071.26	154.12	1.139	2.315	2.627	10.113
2010	12684	1100.9	171.03	1.189	2.418	2.741	10.113
SAT	57175	3967.95	620.52	4.974	8.861	9.952 *	10.113

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD06B SECTION #: 5 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 24 0 .0016 0 PVC .01 7.642

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1

SD06A

YEAR	POPS	TRAS	CTAS	ADWFS	PWFS	PWFS	CAP
1985	4479	267	20	.378 *	.931	1.004	7.642
1990	8444	813.98	56.24	.756 *	1.55	1.773	7.642
1995	9220	866.41	80.19	.837	1.719	1.961	7.642
2000	11784	1038.74	136.31	1.087	2.204	2.503	7.642
2005	12254	1071.26	154.12	1.139	2.315	2.627	7.642
2010	12684	1100.9	171.03	1.189	2.418	2.741	7.642
SAT	57175	3967.95	620.52	4.974	8.861 *	9.952 *	7.642

SEMSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD06C SECTION #: 5 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 24 0 .0114 0 PVC .01 20.305

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1
 SD06E 1

YEAR	POPS	TRAS	CIRAS	ADWFS	PDWFS	PWFS	CAP
1985	4479	267	20	.378 *	.931 *	1.004 *	20.305
1990	8444	813.98	56.24	.756 *	1.55 *	1.773 *	20.305
1995	9220	866.41	80.19	.837 *	1.719 *	1.961 *	20.305
2000	11784	1038.74	136.31	1.087 *	2.204	2.503	20.305
2005	12254	1071.26	154.12	1.139 *	2.315	2.627	20.305
2010	12684	1100.9	171.03	1.189 *	2.418	2.741	20.305
SAT	57175	3967.95	620.52	4.974	8.861	9.952	20.305

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD066 SECTION #: 6 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .0044 0 .01 1.992

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D0603 .1

SC016 1

YEAR	POPS	TRAS	CIAS	ADMFS	PDWFS	PWDFS	CAP
1985	437	25.9	2	.035 *	.096 *	.103 *	1.992
1990	3463	509.95	31.61	.291	.629	.765	1.992
1995	3676	530.34	46.41	.321	.702	.847	1.992
2000	3890	550.72	61.22	.353	.775	.929	1.992
2005	4102	571.11	76.02	.382	.848	1.011	1.992
2010	4317	591.5	90.83	.414	.921	1.092	1.992
SAT	4151	591.5	90.83	.401	.899	1.073	1.992

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD067 SECTION #: 6 BASE MAP: 0

DIAMETER 12 LENGTH 0 SLOPE .0042 MATERIAL 0 INSTALLED .01 ROUGHNESS 1 CAPACITY 1.992

TRIBUTARY CONTRIBUTION .75 NUMBER OF TRIBUTARIES: 2

D0602 1
SD066 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFS	CAP
1985	437	25.9	2	.035 *	.096 *	.103 *	1.992
1990	4168	557.11	36.56	.348	.739	.89	1.992
1995	4541	584.46	52.94	.392	.837	1	1.992
2000	4917	611.8	69.52	.438	.936	1.109	1.992
2005	5291	639.15	85.7	.481	1.034	1.219	1.992
2010	5667	666.5	102.08	.526	1.132	1.328	1.992
SAT	5501	666.5	102.08	.513	1.111	1.309	1.992

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD09A SECTION #: 7 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .004 0 PVC .01 1.9

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 4

D0701 .25
 D0706 1
 SC033 1
 SC035 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFS	CAP
1985	108	8	0	.008 *	.076 *	.078 *	1.9
1990	107	7.95	0	.024 *	.075 *	.077 *	1.9
1995	78	5.75	0	.022 *	.068 *	.07 *	1.9
2000	5	.33	0	.016 *	.049 *	.049 *	1.9
2005	0	.01	0	.016 *	.047 *	.047 *	1.9
2010	0	0	0	.016 *	.047 *	.047 *	1.9
SAT	9814	616.1	26.5	.778	1.478	1.643	1.9

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD09B SECTION #: 7 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .004 0 PVC .01 1.9

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 3

D0704 .5
 D0705 .25
 SD09A 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	108	8	0	.008 *	.076 *	.078 *	1.9
1990	107	7.95	0	.024 *	.075 *	.077 *	1.9
1995	78	5.75	0	.022 *	.068 *	.07 *	1.9
2000	5	.33	0	.016 *	.049 *	.049 *	1.9
2005	0	.01	0	.016 *	.047 *	.047 *	1.9
2010	0	0	0	.016 *	.047 *	.047 *	1.9
SAT	10487	660.35	26.5	.828	1.562	1.737 *	1.9

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10A SECTION #: 8 BASE MAP: 0

DIAMETER 18 LENGTH 0 SLOPE .0085 INSTALLED 1999 MATERIAL PVC ROUGHNESS .011 CAPACITY 7.419

TRIBUTARY CONTRIBUTION 1 NUMBER OF TRIBUTARIES: 2

SD09B 1
SD10B 1

YEAR	POPS	TRAS	CIAS	ADMFS	PDWFS	PWWFS	CAP
1985	108	8	0	.008 *	.076 *	.078 *	7.419
1990	107	7.95	0	.024 *	.075 *	.077 *	7.419
1995	78	5.75	0	.022 *	.068 *	.07 *	7.419
2000	6	.37	0	.016 *	.049 *	.049 *	7.419
2005	0	.03	0	.016 *	.047 *	.047 *	7.419
2010	0	0	0	.016 *	.047 *	.047 *	7.419
SAT	37089	2397.1	233.5	3.031	5.298	5.965	7.419

SEMSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10B SECTION #: 8 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 18 0 .003 1999 PVC .01 4.848

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 3

D0704 .5
 D0802 1
 SD10C 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWS	CAP
1985	0	0	0	0 *	0 *	0 *	4.848
1990	0	0	0	0 *	0 *	0 *	4.848
1995	0	0	0	0 *	0 *	0 *	4.848
2000	1	.04	0	0 *	0 *	0 *	4.848
2005	0	.02	0	0 *	0 *	0 *	4.848
2010	0	0	0	0 *	0 *	0 *	4.848
SAT	26602	1736.75	207	2.202	3.971	4.463 *	4.848

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10C SECTION #: 8 BASE MAP: 0

DIAMETER 18 LENGTH 0 SLOPE .005 INSTALLED 1999 MATERIAL PVC ROUGHNESS .01 CAPACITY 6.259

TRIBUTARY CONTRIBUTION .75 NUMBER OF TRIBUTARIES: 6

D0705
 D0803 1
 D0804 1
 D1702 1
 D1801 1
 SD10D 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	6.259
1990	0	0	0	0 *	0 *	0 *	6.259
1995	0	0	0	0 *	0 *	0 *	6.259
2000	1	.04	0	0 *	0 *	0 *	6.259
2005	0	.02	0	0 *	0 *	0 *	6.259
2010	0	0	0	0 *	0 *	0 *	6.259
SAT	25849	1687.25	207	2.145	3.884	4.366	6.259

SEMSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10D SECTION #: 17 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 18 0 .0025 1999 PVC .011 4.023

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 3

D1703 1
 D1704 1
 SD10E 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	4.023
1990	0	0	0	0 *	0 *	0 *	4.023
1995	0	0	0	0 *	0 *	0 *	4.023
2000	1	.04	0	0 *	0 *	0 *	4.023
2005	0	.02	0	0 *	0 *	0 *	4.023
2010	0	0	0	0 *	0 *	0 *	4.023
SAT	18529	1270	146	1.535	2.844	3.205	4.023

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10E SECTION #: 17 BASE MAP: 0

DIAMETER 15 LENGTH 0 SLOPE .0035 INSTALLED MATERIAL PVC ROUGHNESS .01 CAPACITY 3.221

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

GAOLA 1

SD10F 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	3.221
1990	0	0	0	0 *	0 *	0 *	3.221
1995	0	0	0	0 *	0 *	0 *	3.221
2000	1	.04	0	0 *	0 *	0 *	3.221
2005	0	.02	0	0 *	0 *	0 *	3.221
2010	0	0	0	0 *	0 *	0 *	3.221
SAT	16013	1105	146	1.346	2.544	2.867	3.221

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10F SECTION #: 18 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .0137 1999 PVC .011 3.195

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D1802 1
 SD10G 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	3.195
1990	0	0	0	0 *	0 *	0 *	3.195
1995	0	0	0	0 *	0 *	0 *	3.195
2000	1	.04	0	0 *	0 *	0 *	3.195
2005	0	.02	0	0 *	0 *	0 *	3.195
2010	0	0	0	0 *	0 *	0 *	3.195
SAT	9951	743	96	.841	1.657	1.882	3.195

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10G SECTION #: 18 BASE MAP: 0

DIAMETER 10 LENGTH 0 SLOPE .0137 INSTALLED 1999 MATERIAL PVC ROUGHNESS .011 CAPACITY 1.965

TRIBUTARY CONTRIBUTION 1 NUMBER OF TRIBUTARIES: 2

DI901 1
SD10H 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	1.965
1990	0	0	0	0 *	0 *	0 *	1.965
1995	0	0	0	0 *	0 *	0 *	1.965
2000	1	.04	0	0 *	0 *	0 *	1.965
2005	0	.02	0	0 *	0 *	0 *	1.965
2010	0	0	0	0 *	0 *	0 *	1.965
SAT	8385	640	96	.724	1.461	1.661	1.965

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10H SECTION #: 18 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .0133 1999 PVC .011 1.936

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D1803 1
 SD10K 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	1.936
1990	0	0	0	0 *	0 *	0 *	1.936
1995	0	0	0	0 *	0 *	0 *	1.936
2000	0	0	0	0 *	0 *	0 *	1.936
2005	0	0	0	0 *	0 *	0 *	1.936
2010	0	0	0	0 *	0 *	0 *	1.936
SAT	7005	580	84	.609	1.25	1.419	1.936

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10K SECTION #: 24 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .01 1999 PVC .01 1.847

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

SD10L 1
 SD10M 1

YEAR	POPS	TRAS	CIAS	ADMFS	PDWFS	PWMFS	CAP
1985	0	0	0	0 *	0 *	0 *	1.847
1990	0	0	0	0 *	0 *	0 *	1.847
1995	0	0	0	0 *	0 *	0 *	1.847
2000	0	0	0	0 *	0 *	0 *	1.847
2005	0	0	0	0 *	0 *	0 *	1.847
2010	0	0	0	0 *	0 *	0 *	1.847
SAT	7005	580	20	.545	1.058	1.214	1.847

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10L SECTION #: 24 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 8 0 .0044 0 PVC .01 .676

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

C2301 .4
 C2401 .4

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFPS	CAP
1985	0	0	0	0 *	0 *	0 *	.676
1990	0	0	0	0 *	0 *	0 *	.676
1995	0	0	0	0 *	0 *	0 *	.676
2000	0	0	0	0 *	0 *	0 *	.676
2005	0	0	0	0 *	0 *	0 *	.676
2010	0	0	0	0 *	0 *	0 *	.676
SAT	2802	232	8	.218	.467	.529	.676

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10M SECTION #: 24 EASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .0033 0 PVC .01 1.061

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

C2301 .6
 C2401 .6

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	1.061
1990	0	0	0	0 *	0 *	0 *	1.061
1995	0	0	0	0 *	0 *	0 *	1.061
2000	0	0	0	0 *	0 *	0 *	1.061
2005	0	0	0	0 *	0 *	0 *	1.061
2010	0	0	0	0 *	0 *	0 *	1.061
SAT	4203	348	12	.327	.67	.763	1.061

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD502 SECTION #: 4 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 24 0 .01 0 PVC .01 19.059

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1

SD03E 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFS	CAP
1985	4479	267	20	.378 *	.931 *	1.004 *	19.059
1990	8595	828.12	56.25	.767 *	1.569 *	1.796 *	19.059
1995	9699	906.35	81.41	.874 *	1.783 *	2.035	19.059
2000	18176	1472.04	167.48	1.597 *	3.067	3.483	19.059
2005	20139	1606.88	194.02	1.77 *	3.379	3.835	19.059
2010	20727	1651.2	211.03	1.832 *	3.499	3.97	19.059
SAT	78693	5628.45	721.52	6.688	11.525	13.057	19.059

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD504 SECTION #: 4 BASE MAP: 0

DIAMETER 24 LENGTH 0 SLOPE .0113 INSTALLED 0 MATERIAL PVC ROUGHNESS .01 CAPACITY 20.305

TRIBUTARY CONTRIBUTION .25 NUMBER OF TRIBUTARIES: 3

D0401 1
SD06C 1
SD505 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWS	CAP
1985	4479	267	20	.378 *	.931 *	1.004 *	20.305
1990	8520	821.09	56.25	.761 *	1.56 *	1.785 *	20.305
1995	9549	892.29	81.41	.863 *	1.764 *	2.013 *	20.305
2000	17952	1450.95	167.48	1.581 *	3.041	3.451	20.305
2005	19840	1578.76	194.02	1.747 *	3.344	3.793	20.305
2010	20353	1616.05	211.03	1.804 *	3.455	3.918	20.305
SAT	77481	5508.45	721.52	6.597	11.393	12.893	20.305

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD505 SECTION #: 4 BASE MAP: 0
 DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 15 0 .005 0 PVC .011 3.5

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES: 2					
		CIAS	ADWFS	PWFWS	PWFWS	CAP	
D0501	1.5	0	0 *	0 *	0 *	3.5	
SD508	1	.01	0 *	0 *	.001 *	3.5	
1985	0	1.22	.015 *	.047 *	.051 *	3.5	
1990	1	31.17	.477	.956	1.062	3.5	
1995	180	39.9	.586	1.154	1.285	3.5	
2000	5943	40	.587	1.155	1.286	3.5	
2005	7286	101	1.532	2.776	3.153 *	3.5	
2010	7295						
SAT	19096						

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SDS08 SECTION #: 4 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 15 0 .003 0 PVC .011 2.711

TRIBUTARY CONTRIBUTION .5 NUMBER OF TRIBUTARIES: 2

DS501
 SDS09 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	2.711
1990	1	.04	.01	0 *	0 *	.001 *	2.711
1995	90	5.91	.61	.007 *	.026 *	.028 *	2.711
2000	2372	195.56	15.59	.238 *	.513	.567	2.711
2005	3643	239.69	19.95	.293	.618	.684	2.711
2010	3648	240	20	.293	.619	.684	2.711
SAT	15448	1180.5	81	1.239	2.281	2.594 *	2.711

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SDS09 SECTION #: 4 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 15 0 .003 0 PVC .011 2.711

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D0801 1
 SD510 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	2.711
1990	0	0	0	0 *	0 *	0 *	2.711
1995	0	0	0	0 *	0 *	0 *	2.711
2000	0	0	0	0 *	0 *	0 *	2.711
2005	0	0	0	0 *	0 *	0 *	2.711
2010	0	0	0	0 *	0 *	0 *	2.711
SAT	11801	940.5	61	.946	1.779	2.028	2.711

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD510 SECTION #: 16 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .0044 0 PVC .011 1.811

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D1701 .5
 SD511 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	1.811
1990	0	0	0	0 *	0 *	0 *	1.811
1995	0	0	0	0 *	0 *	0 *	1.811
2000	0	0	0	0 *	0 *	0 *	1.811
2005	0	0	0	0 *	0 *	0 *	1.811
2010	0	0	0	0 *	0 *	0 *	1.811
SAT	5743	510.5	56	.487	1.004	1.146	1.811

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD511 SECTION #: 16 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .0044 0 PVC .011 1.811

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D1701 .5
 SD513 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	1.811
1990	0	0	0	0 *	0 *	0 *	1.811
1995	0	0	0	0 *	0 *	0 *	1.811
2000	0	0	0	0 *	0 *	0 *	1.811
2005	0	0	0	0 *	0 *	0 *	1.811
2010	0	0	0	0 *	0 *	0 *	1.811
SAT	4374	381	30.5	.359	.748	.85	1.811

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD513 SECTION #: 20 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .0044 0 PVC .011 1.114

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1

D2001

.5

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	1.114
1990	0	0	0	0 *	0 *	0 *	1.114
1995	0	0	0	0 *	0 *	0 *	1.114
2000	0	0	0	0 *	0 *	0 *	1.114
2005	0	0	0	0 *	0 *	0 *	1.114
2010	0	0	0	0 *	0 *	0 *	1.114
SAT	3005	251.5	5	-.231	.486	.55	1.114

CITY OF SIERRA VISTA
 PETTY CASH RETURN
 99/07/01

REQ NAME	P/C #	T.O. #	RETURN TIME	REQUESTED AMOUNT	ISSUED AMOUNT	RECEIPT AMOUNT	RETURNED AMOUNT
TAYLOR, J	132275	107220	8:39:19	57.00	57.00	57.00	.00
GIBBS, S	132669	0	8:39:19	15.95	15.95	15.95	.00
MANNING, R	132723	0	8:39:19	12.00	12.00	12.00	.00
MCPHERRAN, G	132724	107294	10:12:02	100.00	100.00	100.00	.00
THORNTON, J	132725	0	11:05:38	9.00	9.00	9.00	.00
GERMAIN, J	131979	0	15:55:24	20.00	20.00	20.00	20.00
STROUD, Y	132577	0	15:55:24	30.00	27.79	27.79	2.21
MARTINEZ, K	132604	0	15:55:24	50.00	50.00	40.43	9.57
WILLIAMS, S	132621	0	15:55:24	25.00	25.00	21.74	3.26
MYERS, N	132666	0	15:55:24	70.00	70.00	42.42	27.58
HELEIG, M	132682	0	15:55:24	60.00	60.00	60.00	.00
FINAL TOTALS				448.95	448.95	386.33	62.62
TOTAL							
COUNT				11			

*** END OF REPORT ***

CITY OF SIERRA VISTA
 PETTY CASH ISSUANCES
 99/07/01

REQ NAME	P/C #	T.O. #	RETURN TIME	REQUESTED AMOUNT	ISSUED AMOUNT	RECEIPT AMOUNT	RETURNED AMOUNT	INTL
HOUSLEY, R	132230	0		100.00	100.00	.00	100.00	
MITCHELL, P	132658	0		30.00	30.00	.00	30.00	
STROUD, Y	132662	0		25.00	25.00	.00	25.00	
CREVISTON, R	132679	0		20.00	20.00	.00	20.00	
TAYLOR, J	132275	107220	8:39:19	57.00	57.00	57.00	.00	SLE
GIBBS, S	132669	0	8:39:19	15.95	15.95	15.95	.00	SLE
MANNING, R	132723	0	8:39:19	12.00	12.00	12.00	.00	SLE
MCPHERAN, G	132724	107294	10:12:02	100.00	100.00	100.00	.00	MTH
THORNTON, J	132725	0	11:05:38	9.00	9.00	9.00	.00	TAS
FINAL TOTALS				368.95	368.95	193.95	175.00	
TOTAL								
COUNT								

*** END OF REPORT ***

GENERAL NOTES:

1. ALL ROADWAY IMPROVMENTS CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION OF THE "UNIFORM STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION" AND THE "UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" AS SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) AND AS ADOPTED BY THE CITY OF SIERRA VISTA DEVELOPMENT CODE.
2. CONTRACTOR SHALL VERIFY ALL DIMENSION AND COORDINATE SITE CONDITIONS WITH THE DRAWINGS PRIOR TO CONSTRUCTION, ANY DISCREPANCIES AND OMISSIONS SHALL BE RESOLVED WITH THE PROJECT OFFICER. DO NOT USE SCALED DIMENSIONS.
3. WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. WHERE NO SPECIFIC DETAIL IS SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
4. ALL DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY INDICATED OR NOT. TYPICAL DETAILS MAY OR MAY NOT BE CUT ON THE DRAWINGS, BUT SHALL APPLY UNLESS NOTED OTHERWISE.
5. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR THE COMPLETION OF THIS PROJECT.
6. UTILITY LOCATIONS, AS SHOWN ON THE PLANS, WERE COMPILED BASED ON THE BEST INFORMATION AVAILABLE PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES WITH THE APPROPRIATE OWNER. TWO WORKING DAYS PRIOR TO EXCAVATION, CONTRACTOR SHALL NOTIFY BLUE STAKE AT 1-800-782-5348.
7. THE CITY OF SIERRA VISTA IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION.
8. CONTRACTOR SHALL INCLUDE IN HIS WEEKLY SCHEDULE ALL SURVEY AND TESTING SERVICES THAT WILL BE REQUIRED FOR THE FOLLOWING WEEK.
9. ALL CONSTRUCTION SHALL BE COMPLETED BY APRIL 17, 1998.
10. ALL REQUIRED AN APPLICABLE TRAFFIC CONTROL SHALL CONFORM TO THE "ARIZONA DEPARTMENT OF TRANSPORTATION 1989 TRAFFIC CONTROL MANUAL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE".
11. TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES UNLESS APPROVED BY THE PROJECT OFFICER.
12. NO FINAL ACCEPTANCE WILL BE ISSUED UNTIL MYLAR REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED AND ACCEPTED BY THE CITY ENGINEER.
13. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREET, AND

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND TAKE WHATEVER MEASURES THAT ARE NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.

14. CALL BLUESTAKE AT 1-800-782-5348 AND ANY NON-PARTICIPATING UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO BEGINNING ANY WORK FOR FIELD LOCATION OF ALL EXISTING UTILITIES WITHING PROPOSED CONSTRUCTION AREA.
15. ALL TRENCHING SHALL BE IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATION 29 CFR PART 1926, SUBPART P, EXCAVATIONS AND TRENCHES.
16. THE CONTRACTOR SHALL GUARANTEE ALL WORK TO THE DEVELOPER AND THE CITY OF SIERRA VISTA AGAINST DEFECTIVE WORKMANSHIP OR MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ITS FINAL ACCEPTANCE BY THE MAYOR AND CITY COUNCIL.
17. PAVEMENT MIX DESIGN MUST BE APPROVED BY DEPARTMENT OF ENGINEERING SERVICES OR BE ON FILE WITH SAID DEPARTMENT.
18. BEDDING AND BACKFILL TO BE DONE AS PER M.A.G. SPECIFICATIONS, SECTION 601.4.4, EXCEPT UNDER PAVEMENT WHERE IT SHALL BE BACKFILLED WITH FULL DEPTH A.B.C., MAXIMUM 18" LIFTS, AND COMPACTED TO 100%.
19. BEFORE ANY WORK IN THE PUBLIC RIGHT-OF-WAY MAY BEGIN, A RIGHT-OF-WAY PERMIT SHALL BE OBTAINED FROM THE CITY OF SIERRA VISTA DEPARTMENT OF ENGINEERING SERVICES.
20. SAWCUT, TACK, AND JOIN FOR ALL STREET CUTS, SPADE CUT NOT ACCEPTABLE.
21. ALL NEW PAVING SHALL BE 2" ASPHALTIC CONCRETE OVER 4" A.B.C. BASE SHALL BE COMPACTED TO 100% MAXIMUM DENSITY. SUBGRADE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 6" AND RECOMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY.
22. PAVEMENT REPLACEMENT SHALL BE AS PER MAG DETAIL 200 TYPE "B" FULL DEPTH A.B.C. WITH 2" A.C. BACKFILL SHALL BE THE MINIMUM REQUIREMENT. A.B.C. SHALL BE COMPACTED TO 100% MAXIMUM DENSITY.
23. ALL VERTICAL SURFACES TO BE FORMED.
24. VERTICAL SURFACE TWO INCHES BELOW UNDISTURBED SOIL MAY BE PLACED AGAINST NEAT CUR IF APPROVED BY THE ENGINEER AND CONCRETE WILL NOT EXTEND MORE THAN 1" BEYOND THEORETICAL FACE.
25. ALL EXPOSED SURFACES SHALL BE STRIPPED GREEN AND TROWEL FINISHED.
26. CONCRETE CURBS SHALL CONFORM TO MAG SECTION 340.
27. CONCRETE TO BE CLASS 'B' AS PER MAG SECTION 725.
28. A BITUMINOUS TACK COAT SHALL BE APPLIED TO THE NEW PAVEMENT PRIOR TO THE REPLACEMENT OF ALL EXTRUDED CURB.
29. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFED OF ANY DIECREPANCIES OR INCONSISTENCIES.

30. DIMENSION SHALL TAKE PRECEDENCE OVER SCALES ON DRAWINGS.
31. ALL EARTH UNDER CONCRETE PAD SHALL BE COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASHTO T-99.
32. EXTERIOR FINISHED GRADES SHALL SLOPE TO DRAIN AWAY FROM BUILDING WALLS.
33. ALL CONCRETE SHALL BE READY MIXED AND ATTAIN 3000 PSI MINIMUM STRENGTH AT 28 DAYS.
34. ALL CONCRETE SHALL USE PORTLAND CEMENT TYPE II WITH 1" MAX. AGGREGATE.
35. THE 2" PVC STUB-OUT PIPE FOR WATER LINE SHALL BE PLACED THRU THE FOOTING OR UNDER THE CONCRETE SLAB PRIOR TO POUR. THE PVC STUB SHALL BE CAPPED.
36. PROVIDE 3/4" CHAMBER AT ALL EXPOSED CORNERS.
37. CONTROL JOINT SPACING IS AS SHOWN ON PLANS AND SHALL BE 1/8" WIDE X 1" DEEP PRE MOLDED PLASTIC INSERTED INTO FRESH CONCRETE UNTIL TOP SURFACE OF STRIP IS FLUSH WITH SLAB.
38. EXPANSION MATERIAL TO BE 1/2" AND PLACED BETWEEN BUILDING FOOTER AND CONCRETE ACCESS APRON.
39. SLAB REINFORCEMENT SHALL BE WIRE MESH 6"X6" 1.4X1.4 WWF.
40. CONCRETE SHALL RECEIVE A HEAVY STEEL TROWEL FINISH TO PROVIDE A SMOOTH LEVEL SURFACE.
41. CONCRETE SHALL BE CURED FOR A PERIOD OF AT LEAST SEVEN DAYS AFTER PLACING AND SHALL BEGIN IMMEDIATELY AFTER COMPLETION OF FINISHING OF THE FRESH CONCRETE.
42. CURING MAY BE DONE WITH A LIQUID MEMBRANE FORMING COMPOUND OR WATER CURING METHOD.
43. CALL BLUESTAKE AT 1-800-782-5348, 48 HOURS PRIOR TO ANY CONSTRUCTION FOR FIELD LOCATION OF UNDERGROUND UTILITIES.
44. CONCRETE WORK SHALL CONFORM TO ALL REQUIRMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318, "BUILDING CODE REQUIRMENTS FOR REINFORCED CONCRETE".
45. CONCRETE SHALL BE READY MIXED CONCRETE IN ACCORDANCE WITH ASTM C94. MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 300 PSI.
46. CEMENTS SHALL CONFORM TO ASTM C150, TYPE II, AGGREGATE PER ASTM C33. MAXIMUM 3" SLUMP FOR SLABS ON GRADE, 4" FOR OTHER CONCRETE.
47. CONCRETE SHALL BE FREE OF CHLORIDE. NO FLY ASH ADDITIVES SHALL BE USED IN CONCRETE WHEN USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE. WHEN USED, FLY ASH SHALL CONFORM TO ASTM C618, CLASS F. FLY ASH SHALL NOT REPLACE MORE THAN 15% OF CEMENT BY WEIGHT.
48. PROVIDE SLEEVES FOR UTILITY OPENINGS IN CONCRETE BEFORE PLACING CONCRETE. DO NOT CUT ANY CONFLICTING REINFORCING.

49. NO CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE INSTALLED WITHOUT APPROVAL BY THE ENGINEER.
50. CONCRETE SHALL NOT BE DROPPED MORE THAN FIVE FEET VERTICALLY WITHOUT USE OF TREMEIS.
51. CONCRETE FOOTINGS AND PADS MAY BE POURED AGAINST NEAT EXCAVATION PROVIDED THE REQUIRED CONCRETE COVERAGE FOR REINFORCING IS MAINTAINED.
52. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDERFLOOR DUCTS, ETC. CAST CLOSURE POUR AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED.
53. ALL CONSTRUCTION SHALL CONFORM TO THE 1991 EDITION OF THE UNIFORM BUILDING CODE.
54. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OR SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. THESE MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SCAFFOLDING, BRACING AND SHORING. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS. THE STRUCTURAL ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION, NOR WILL THE STRUCTURAL ENGINEER BE RESPONSIBLE FOR CONSTRUCTION SITE SAFETY, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO.
55. CONTRACTOR SHALL VERIFY ALL DIMENSION AND COORDINATE SITE CONDITIONS WITH THE DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES AND OMISSIONS SHALL BE RESOLVED WITH THE ARCHITECT. DO NOT USE SCALED DIMENSION.
56. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOFS SO AS NOT TO EXCEED THE DESING LIVE LOAD PER SQUARE FOOT.
57. WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. WHERE NO SPECIFIC DETAIL IS SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
58. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND CIVIL DRAWINGS FOR LOCATION AND DETAILS OF BLOCKOUTS, INSERTS AND OPENING, CURBS, EQUIPMENT BASES AND PADS, SITE WORK ITEMS, ETC. AND DIMENSION NOT SHOWN ON STRUCTURAL DRAWINGS.
59. APPROVED EQUAL OPTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. IF AN OPTION IS CHOSEN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY AND COORDINATION OF ALL DETAILS.

60. ALL DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY INDICATED OR NOT. TYPICALLY DETAILS MAY OR MAY NOT BE CUT ON THE DRAWINGS, BUT SHALL APPLY UNLESS NOTED OTHERWISE.
61. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIAL, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
62. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ARIZONA.
63. PRIOR TO COMMENCING DEMOLITION ACTIVITIES FOR EACH RAMP, THE CONTRACTOR SHALL STAKE/MARK THE LIMITS OF DEMOLITION FOR EACH RAMP AND OBTAIN APPROVAL FROM THE PROJECT OFFICER OR HIS DESIGNATED REPRESENTATIVE.
64. THE CONTRACTOR SHALL OBTAIN APPROVAL TO PROCEED FROM THE PROJECT OFFICER OF HIS DESIGNATED REPRESENTATIVE ONCE THE RAMP AT EACH LOCATION HAS BEEN FORMED PRIOR TO POURING OF ANY CONCRETE BY THE CONTRACTOR.
65. RIGHT-OF-WAY ENCROACHMENTS SHALL BE REMOVED ONLY BY ORDER OF THE CITY OF SIERRA VISTA, UNLESS OTHERWISE NOTED.
66. CONTRACTOR SHALL ADJUST DURING CONSTRUCTION ALL WATER VALVE COVERS, SEWER MANHOLE AND CLEAN OUT COVERS TO FIT FINISHED GRADES AND SLOPES.
67. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR THE COMPLETION OF THIS PROJECT.
68. ALL CONCRETE TO BE CLASS "B" AS PER SECTION 725 OF THE MAG SPECIFICATIONS.
69. ALL SUBGRADE PREPARATION AS PER SECTION 301.
70. IN THE EVENT THAT A SPANDRAL EXISTS AND IS MONOLITHIC WITH THE CURB AND GUTTER, A SAWCUT OF THE SPANDRAL WILL BE NECESSARY AND SHALL BE DONE IN SUCH MANNER AS TO MINIMIZE THE REMOVAL OF EXISTING SPANDRAL AND GUTTER.
71. WHERE THERE IS EXISTING INTEGRAL CONCRETE CURB AND GUTTER, BOTH CURB AND GUTTER MUST BE REMOVED. IF THE GUTTER IS IN GOOD CONDITION, THE GUTTER MAY BE SAWCUT AND THE OUTSIDE PORTION LEFT IN PLACE WITH THE APPROVAL OF THE CITY ENGINEER. EACH RAMP SHALL BE DEALT WITH ON AN INDIVIDUAL BASIS.
72. BOTTOM OF RAMP SHALL BE PLACED AT THE ELEVATION OF THE EXISTING GUTTER LINE. SLOPE UP RAMP FROM FACE OF CURB.
73. THE ENTIRE AREA WITHIN THE ACCESS RAMP, INCLUDING TOP OF CURB, SHALL BE A COARSE BROOM FINISH.

74. RAMP SLOPE SHALL BE A MAXIMUM OF 12:1, AND A MINIMUM OF 8:1 UNLESS OTHERWISE NOTED ON DETAIL. IF THIS CRITERIA CANNOT BE MET, FIELD CHANGES WILL HAVE TO BE MADE WITH THE APPROVAL OF THE CITY ENGINEER.
75. ALL NEW SIDEWALK AS PER DETAIL 230, RECONSTRUCT EXISTING SIDEWALK TO MATCH NEW RAMPS WHERE INDICATED ON THE PLANS.
76. ALL RETURNS TO HAVE 25-FOOT RADII TO BACK OF CURB UNLESS OTHERWISE NOTED ON THE PLANS. ALL RADII TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. ALL RADII ARE TO BE RECONSTRUCTED TO THEIR ORIGINAL HORIZONTAL LOCATION.
77. VALLEY GUTTERS, SPANDRELS, CURB AND GUTTER TO BE CONSTRUCTED PRIOR TO PLACEMENT OF NEW ASPHALT.
78. WHEN TRANSITIONING FROM FOUR-INCH CURB TO SIX-INCH VERTICAL CURB, TRANSITION OF THE VERTICAL TWO INCHES MUST OCCUR IN THE VERTICAL CURB SECTION.
79. CONTRACTOR TO NOTIFY PROPERTY OWNERS AFFECTED BY CONSTRUCTION SEVEN DAYS IN ADVANCE BY WRITTEN NOTICE.
80. THE CONTRACTOR SHALL COORDINATE ALL SURVEYING TO ESTABLISH THE GRADES PROPOSED BY THE CONTRACT DOCUMENTS AND SPECIFICATIONS. GRADES SHALL BE ESTABLISHED AT INTERVALS NO LESS THAN 25 FEET OR AS INDICATED ON THE PLANS. AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE CITY OF SIERRA VISTA UPON THE COMPLETION OF THE PROJECT.
81. LIMITS OF SAWCUTTING, REMOVAL AND REPLACEMENT OF SIDEWALK AS SHOWN ON THE PLANS IS A MINIMUM. SAWCUTTING, REMOVAL AND REPLACEMENT OF SIDEWALK TO OCCUR AT THE CLOSEST JOINT OF SCORE MARK AT/OR OUTSIDE THE MINIMUM LIMITS SHOWN ON THE PLANS OR AS DESIGNATED BY THE PROJECT ENGINEER.
82. CROSS-SECTION SHOWN ON PLANS ARE AT 25 FOOT INTERVALS.
83. IN THE EVENT THAT A SPANDRAL EXISTS AND IS MONOLITHIC WITH THE CURB AND GUTTER, A SAWCUT OF THE SPANDRAL WILL BE NECESSARY AND SHALL BE ONE IN SUCH MANNER AS TO MINIMIZE THE REMOVAL OF EXISTING SPANDRAL AND GUTTER.
84. WHERE THERE IS EXISTING INTEGRAL CONCRETE CURB AND GUTTER, BOTH CURB AND GUTTER MUST BE REMOVED. IF THE GUTTER IS IN GOOD CONDITION, THE GUTTER MAY BE SAWCUT AND THE OUTSIDE PORTION LEFT IN PLACE WITH THE APPROVAL OF THE PROJECT OFFICER. EACH RAMP SHALL BE DEALT WITH ON AN INDIVIDUAL BASIS.
85. CONSTRUCT OR STAMP 1/4 " AT 1" O.C. FULL FACE OF RAMP.
86. CONTROL ELEVATIONS SHOWN ARE IN RELATION TO THE GUTTER AND ARE LOCATED RADIALLY. GUTTER ELEVATION = 0.
87. WHEN CURB HEIGHTS OF 7" ARE SHOWN ON PLANS, USE DIMENSIONS SHOWN IN ().
88. ALL SIDEWALKS ARE 5' IN WIDTH UNLESS NOTED OTHERWISE.

89. INSTALL NEW SIDEWALK RAMP IN CENTER OF CURB RETURN.
90. THE CITY OF SIERRA VISTA RESERVES THE RIGHT TO ADD OR DELETE CURB RETURN RAMPS TO BE RECONSTRUCTED AND TO ESTABLISH THEIR PRIORITY.
91. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, LANDINGS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
92. BEFORE PLACEMENT OF RAMPS, THE EXISTING ASPHALT OR CONCRETE SHALL BE CLEANED OF ALL LOOSE OR OBJECTIONAL MATERIAL.
93. PRIOR TO PLACING CONCRETE THE EXISTING ASPHALT SHALL RECEIVE A TACK COAT OF EMULSIFIED ASPHALT CUT BACK WITH 50% WATER.
94. CONSTRUCTION SHALL CONFORM TO THE MARICOPA ASSOCIATION OF GOVERNMENT'S UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS REVISED AT THE DATE OF ADVERTISEMENT FOR THIS PROJECT AND AS MODIFIED BY THE CONTRACT DOCUMENTS.
95. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES AND OMISSIONS SHALL BE RESOLVED WITH THE PROJECT OFFICER.
96. THE CITY OF SIERRA VISTA IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION.
97. CONTRACTOR SHALL INCLUDE IN HIS WEEKLY SCHEDULE ALL TESTING SERVICES THAT WILL BE REQUIRED FOR THE FOLLOWING WEEK.
98. ALL WORK SHALL BE INSPECTED BEFORE THE NEXT STAGE OF WORK MAY BEGIN.
99. ALL CONSTRUCTION SHALL BE COMPLETED WITHIN 30 CALENDAR DAYS.
100. FOUNDATION PREPARATION SHALL BE PER MAG SECTION 206.
101. ALL VERTICAL SURFACES TO BE FORMED.
102. CONCRETE PAD FOUNDATION BELOW GRADE MAY BE PLACED AGAINST NEAT EXCAVATIONS, PROVIDED PLAN DIMENSIONS ARE ADHERED TO.
103. ALL CONCRETE SHALL BE READY MIXED CONFORMING WITH MAG SECTION 725 FOR CLASS "A" AND ATTAIN A MIN 3000 PSI STRENGTH AT 28 DAYS.
104. THE ENTIRE TOP OF FINISHED PAD SHALL RECEIVE A LIGHT BROOM FINISH.
105. MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE 3"
106. ALL REINFORCING BARS, ANCHOR BOLTS AND CONCRETE INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.
107. PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS.
108. ALL CONCRETE SHALL USE PORTLAND CEMENT TYPE II (ONLY) WITH 1" MAX AGGREGATE AND HAVE A MAX. SLUMP AS SPECIFIED BY THE APPROVED MIX DESIGN.

109. ALL CONCRETE ADMIXTURES SHALL BE MIXED INTO THE CONCRETE AT THE BATCH PLANT.
110. CONTRACTOR SHALL VERIFY ALL DIMENSION AND COORDINATE SITE CONDITIONS WITH THE DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES AND OMISSIONS SHALL BE RESOLVED WITH THE PROJECT OFFICER. DO NOT USE SCALED DIMENSIONS.
111. WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. WHERE NO SPECIFIC DETAIL IS SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
112. ALL DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY INDICATED OR NOT. TYPICAL DETAILS MAY OR MAY NOT BE CUT ON THE DRAWINGS, BUT SHALL APPLY UNLESS NOTED OTHERWISE.
113. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR THE COMPLETION OF THIS PROJECT.
114. UTILITY LOCATIONS, AS SHOWN ON THE PLANS, WERE COMPILED BASED ON THE BEST INFORMATION AVAILABLE. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES WITH THE APPROPRIATE OWNER. TWO WORKING DAYS PRIOR TO EXCAVATION, CONTRACTOR SHALL NOTIFY BLUE STAKE AT 1-800-782-5348.
115. THE CITY OF SIERRA VISTA IS NOT RESPONSIBLE FOR LIABILITY ACCURED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION.
116. CONTRACTOR SHALL INCLUDE IN HIS WEEKLY SCHEDULE ALL SURVEY AND TESTING SERVICES THAT WILL BE REQUIRED FOR THE FOLLOWING WEEK.
117. ALL CONSTRUCTION SHALL BE COMPLETED BY NOVEMBER 11, 1995.
118. ALL REQUIRED AND APPLICABLE TRAFFIC CONTROL SHALL CONFORM TO THE "ARIZONA DEPARTMENT OF TRANSPORTATION 1989 TRAFFIC CONTROL MANUAL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE".
119. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES UNLESS APPROVED BY THE PROJECT OFFICER.
120. CONTRACTOR IS RESPONSIBLE FOR CONTAINING ALL PERMITS NECESSARY FOR THE COMPLETION OF THE PROJECT.
121. NO FINAL ACCEPTANCE OF OFF SITE IMPROVEMENTS SHALL BE ISSUED UNTIL MYLAR REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED AND ACCEPTED BY THE CITY ENGINEER.
122. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREET, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TAKE WHATEVER MEASURES NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.

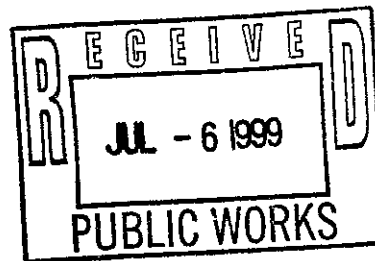
123. AN APPROVED SET OF PLANS SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES WORK IS IN PROGRESS. DEVIATION FROM THE PLANS WILL NOT BE ALLOWED WITHOUT AN APPROVED PLAN REVISION.
124. THE PLACING OF MATERIAL ON PRIVATE PROPERTY OF ANOTHER REQUIRES WRITTEN AUTHORIZATION.
125. THE DIRECTOR OF DEVELOPMENT SERVICES SHALL BE NOTIFIED THREE (3) DAYS PRIOR TO BEGGING ANY WORK.
126. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A PERSON WHO IS AUTHORIZED AND CERTIFIED UNDER TITLE 32-142 OF THE ARIZONA REVISED STATUES TO PERFORM MATERIALS TESTING AND CONDUCT THE TESTING OF ALL MATERIALS USED IN THE CONSTRUCTION OF PUBLIC WORKS IMPROVEMENTS.
127. THE RESULTS OF ALL TESTS SHALL BE PROVIDED TO THE DIRECTOR OF DEVELOPMENT SERVICES PRIOR TO THE FINAL INSPECTIONS AND DURING THE CONSTRUCTION PHASE OF ALL PUBLIC WORKS IMPROVEMENTS.
128. THE CONTRACTOR SHALL GUARANTEE ALL WORK TO THE DEVELOPER AND THE CITY OF SIERRA VISTA AGAINST DEFECTIVE WORKMANSHIP OR MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ITS FINAL ACCEPTANCE BY THE MAYOR AND CITY COUNCIL.
129. PAVEMENT MIX DESIGN MUST BE APPROVED BY DEPARTMENT OF PUBLIC WORKS OR BE ON FILE WITH SAID DEPARTMENT.
130. BEDDING AND BACKFILL TO BE DONE AS PER M.A.G. SPECIFICATIONS, SECTION 601.4.4, EXCEPT UNDER PAVEMENT WITHIN PUBLIC RIGHT-OF-WAY WHERE IT SHALL BE BACKFILLED WITH FULL DEPTH A.B.C., MAXIMUM 18" LIFTS, AND COMPACTED TO 100%.
131. INSTALL SURVEY MONUMENTS PER M.A.G. STANDARD DETAIL 120-1.
132. WHERE SEWER MANHOLES ARE AT STREET INTERSECTIONS, 4 PK NAILS SHALL BE PLACED AROUND MANHOLE TO CREATE AN 'X' OUT OF THE MANHOLE IN LIEU OF A SURVEY MONUMENT.
133. DO NOT USE SCALED DIMENSIONS.
134. ALL DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY INDICATED OR NOT.
135. THE CITY OF SIERRA VISTA IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. THE CITY WIL LNOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION.
136. CONTRACTOR SHALL INCLUDE IN HIS WEEKLY SCHEDULE ALL TESTING SERVICES THAT WILL BE REQUIRED FOR THE FOLLOWING WEEK.
137. ALL WORK SHALL BE INSPECTED BEFORE THE NEXT STATE OF WORK MAY BEGIN.
138. ALL CONSTRUCTION SHALL BE COMPLETED WITHIN 30 CALENDAR DAYS
139. FOUNDATION PREPARATION SHALL BE PER MAG SECTION 206.
140. ALL VERTICAL SURFACES TO BE FORMED.

141. CONCRETE PAD FOUNDATION BELOW GRADE MAY BE PLACED AGAINST NEAT EXCAVATIONS, PROVIDED PLAN DIMENSIONS ARE ADHERED TO.
142. ALL CONCRETE SHALL BE READY MIXED CONFORMING WITH MAG SECTION 725 FOR CLASS "A" AND ATTAIN A MIN 3000 PSI STRENGTH AT 28 DAYS.
143. THE ENTIRE TOP OF FINISHED PAD SHALL RECEIVE A LIGHT BROOM FINISH.
144. MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE 3".
145. ALL REINFORCING BARS, ANCHOR BOLTS AND CONCRETE INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.
146. PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS.
147. ALL CONCRETE SHALL USE PORTLAND CEMENT TYPE II (ONLY) WITH 1" MAX. AGGREGATE AND HAVE A MAX. SLUMP AS SPECIFIED BY THE APPROVED MIX DESIGN.
148. ALL CONCRETE ADMIXTURES SHALL BE MIXED INTO THE CONCRETE AT THE BATCH PLANT.

149. ALL EXISTING TRAFFIC MARKINGS TO BE REMOVED/OBLITERATED BY SANDBLASTING OR GRINDING ONLY. NO PAINTING OVER EXISTING MARKINGS WITH BLACK PAINT OR ASPHALT ALLOWED.


150. ALL PULLBOXES TO HAVE A 4 INCH COLLAR OF CONCRETE.


MEMORANDUM



July 6, 1999

TO: James E. Herrewig, Director of Community Development Services

THRU: Michael J. Hemesath, P.E., Director of Public Works 

FROM: Scott W. Dooley, City Engineer 

SUBJECT: Sewer Master Plan Amendment No. 3

This is the third amendment to Appendix E of the Wastewater Management and Sewerage Master Plan in the VISTA 2010, driven by the realignment and re-proportioning of zoning densities for the Pueblo Del Sol (PDS) sewer line as shown on figure 1. As configured, the service area of the PDS line has been expanded from the previous Master Plan to include section 23, 24, a portion of section 17 and the Golden Acres area. The realignment of the PDS line will alleviate some immediate capacity issues in the existing sewer lines in the PDS subdivision areas and create some potential future capacity development east of State Route 92.

With the development of the Castle and Cooke properties in sections 17, 18, 19, and 24 the focus has been to serve these areas with the construction of the PDS line instead of a combination of the PDS and Golden Acres line. As proposed, the PDS line is sized to accommodate sections 24 and 23 that were intended to be served by existing infrastructure through the Country Club Estates subdivision. Sewer flows will be diverted from going into the SC035 line at Buffalo Soldier Trail, and will relieve capacity problems downstream in pipes SD008, and SD009. As development continues in sections 13 and 14 the proposed construction of SD09 will have to be completed to avoid further capacity problems in SD008 and SD004.

When the Sewer Master Plan was revised in 1995 the State Route 90 Interceptor was designed to accept flow from the PDS line and the Golden Acres interceptors at the locations shown on figure 2. Based on the flows projected in this master plan revision, ultimate build outflows will exceed the future capacity of the State Route 90 interceptor. Once capacity of the State Route 90 interceptor is reached, Castle and Cooke will be responsible for the augmentation of the SR90 interceptor before development beyond the interceptor's capacity is achieved. Figure 3 shows the impact of Castle & Cooke properties on the PDS and Golden Acre lines.

Zone densities were updated with input from Castle and Cooke, which incorporated the most recent land use plans as approved by the City and shown in figure 1. Current zone densities and sewer pipe alignments as shown in figure 2 were entered into the City's "SEWSYST" computer sewer modeling program and was named SWDPDSGLD2. A print out of the sewer modeling program data relating to the changes presented by this amendment is also attached.

After you have reviewed these documents and find them acceptable, please process the attached Sewage Master Plan Amendment No. 3. This amendment replaces the May 1987 Sewage Master Plan Amendment 1 and the February 1995 Amendment 2. Once the approval is granted for this Amendment, a reimbursement agreement will be drafted as allowed by the City Code involving Castle and Cooke and the Golden Acres properties that will be served by the PDS interceptor line. If I can answer any questions or supply you with additional information please give me a call.

SWD/mmd

O:\M.Herrewig Sewer MP.AMENDMENT3.doc

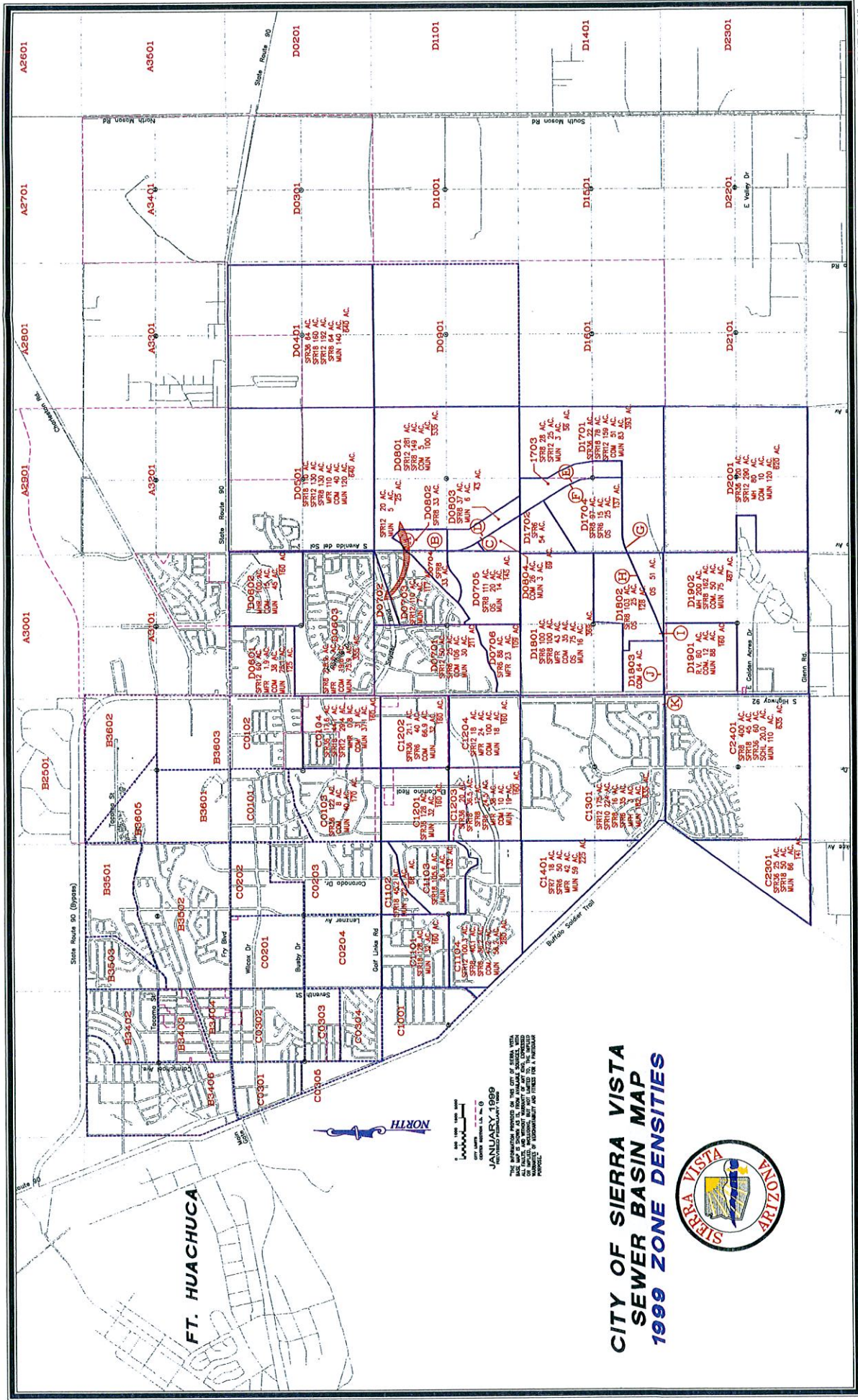
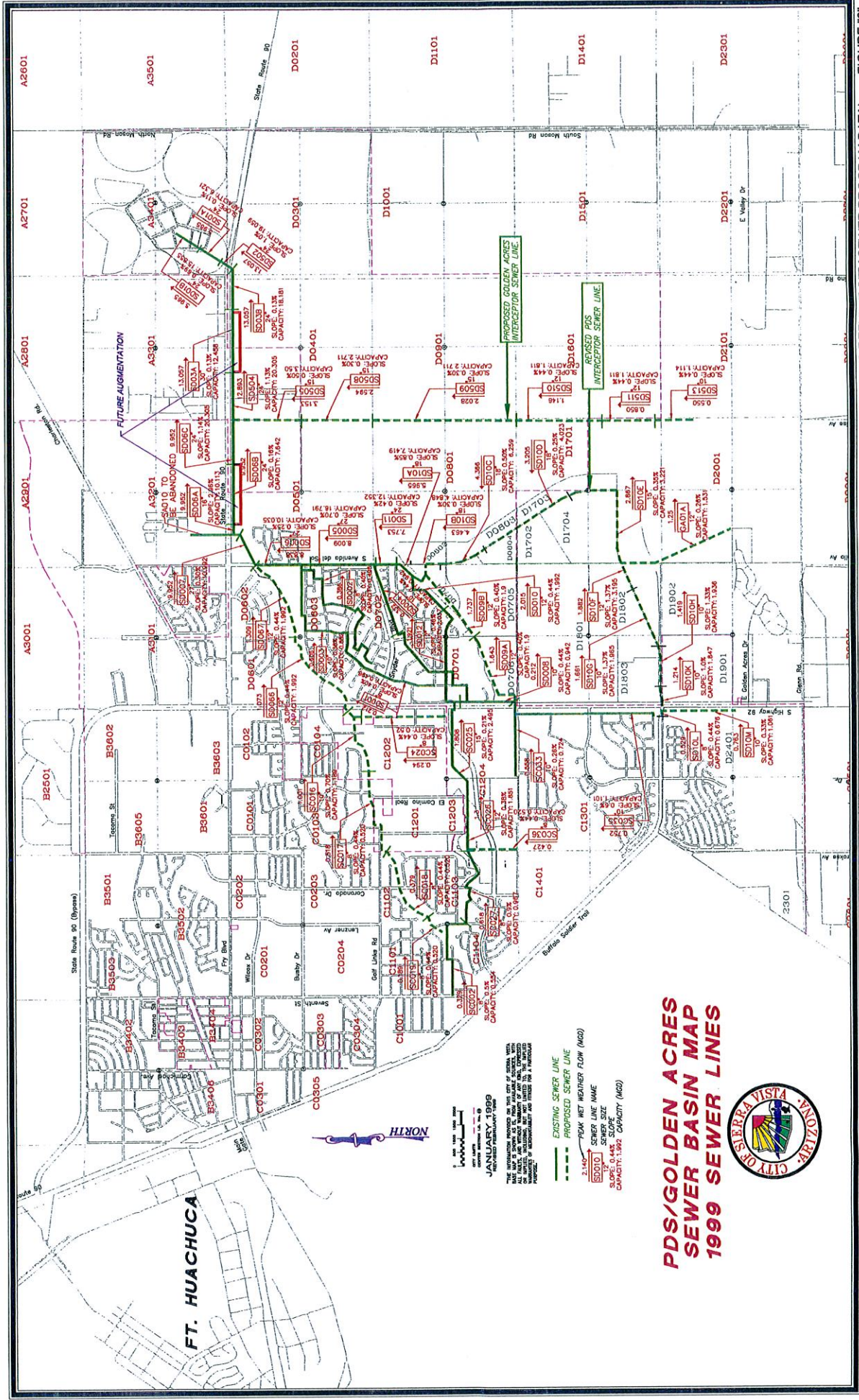


FIGURE "1"



FT. HUACHUCA

**PDS/GOLDEN ACRES
SEWER BASIN MAP
1999 SEWER LINES**



THE INFORMATION PROVIDED ON THIS CITY OF SIERRA VISTA
 MAP IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT
 TO BE USED AS A BASIS FOR ANY DECISIONS. THE CITY
 OF SIERRA VISTA AND ITS ENGINEERS ASSUME NO
 LIABILITY FOR ANY DAMAGE OR INJURY TO PERSONS OR
 PROPERTY OF ANY KIND ARISING FROM THE USE OF THIS
 MAP.

JANUARY, 1999
 REVISION FEBRUARY 1999

3.144' PEAK MET WEATHER FLOW (MGD)
 EXISTING SEWER LINE
 PROPOSED SEWER LINE
 SLOPE: 0.44% SLOPE CAPACITY: 1.892 (MGD)
 SLOPE: 0.44% SLOPE CAPACITY: 1.892 (MGD)

(INFORMATION TO REFLECT CITY SEWER PROGRAM DATA) FIGURE '2'

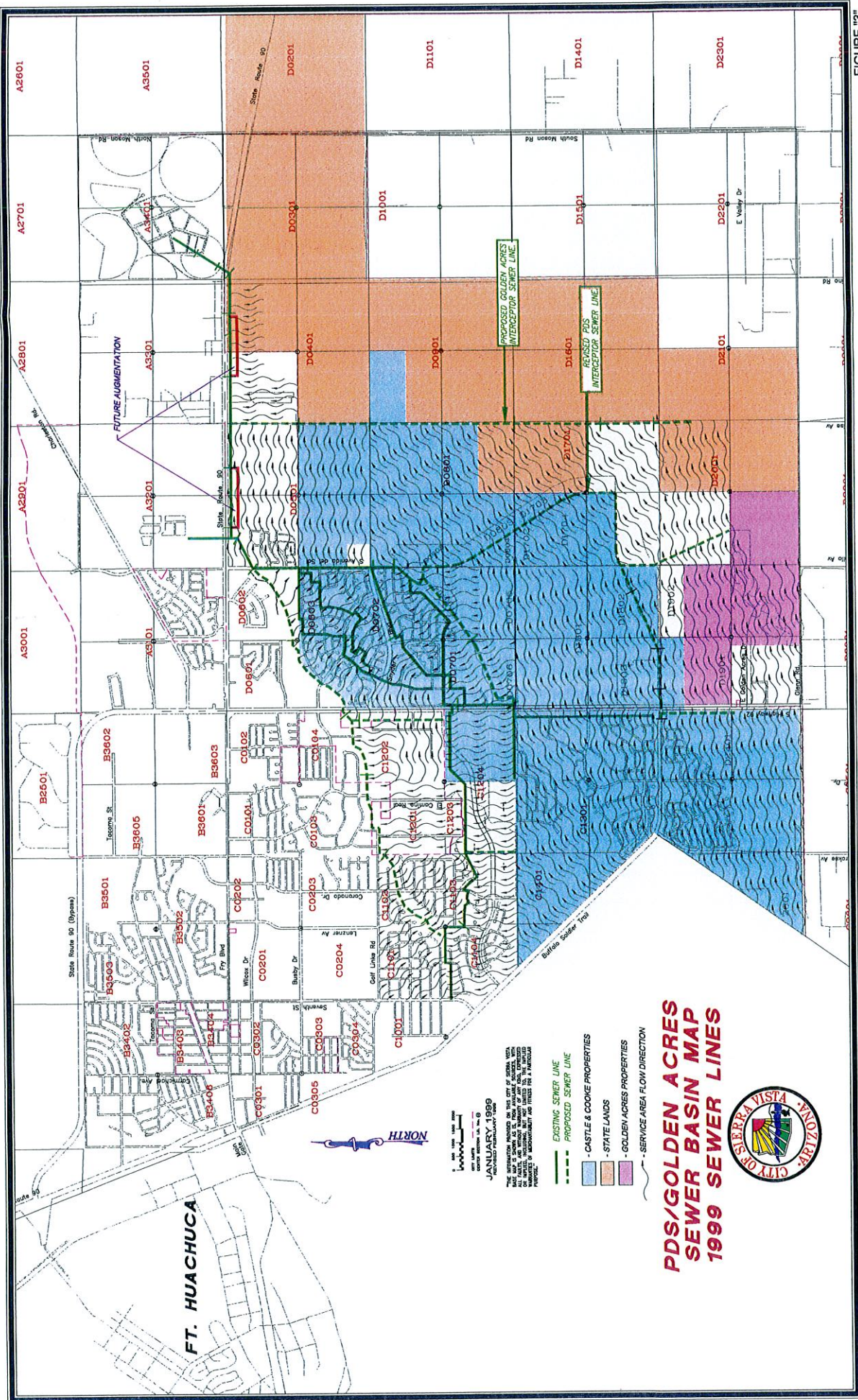


FIGURE '3'

**PDS/GOLDEN ACRES
SEWER BASIN MAP
1999 SEWER LINES**



JANUARY 1999
REVISED FEBRUARY 1999

THE INFORMATION PROVIDED ON THIS CITY OF SIERRA VISTA MAP IS FOR INFORMATIONAL PURPOSES ONLY. THE CITY OF SIERRA VISTA DOES NOT WARRANT THE ACCURACY OF ANY INFORMATION PROVIDED ON THIS MAP. THE CITY OF SIERRA VISTA SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES, INCLUDING CONSEQUENTIAL DAMAGES, ARISING FROM THE USE OF THIS MAP.

- EXISTING SEWER LINE
- PROPOSED SEWER LINE
- CASTLE & COOKE PROPERTIES
- STATE LANDS
- GOLDEN ACRES PROPERTIES
- SERVICE AREA FLOW DIRECTION

GENERAL STUDY DATA

ZONDATA1

NUMBER OF ZONES: 64
 STUDY TIME INCREMENT: 5
 DATA BEGIN YEAR: 1985
 STUDY BEGIN YEAR: 1985
 DATA END YEAR: 2010
 STUDY END YEAR: 2010

POPULATION DENSITIES
(PERSONS/ACRE)

TYPE D1: 3.50 RESIDENTIAL GALLONS/CAP/DAY: 75.00
 TYPE D2: 6.60 COMMERCIAL GALLONS/ACRE/DAY: 1,000.00
 TYPE D4: 13.50 INFILTRATION GALLONS/DAY: 200.00

TYPE D5: 15.20
 TYPE D6: 17.10
 TYPE D7: 18.60
 TYPE D11: 18.00
 TYPE D12: 23.00
 TYPE D15: 25.80
 TYPE D17: 25.00
 TYPE D20: 27.50

ZONE NAME: A2901 DATA ACTIVE: 1990
 CURVE CONSTANT: .00

PROJECTION MODE: LOGS

TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00
 POPULATION VARIANCE FACTOR: .00

COMMERCIAL G/A/D VARIANCE FACTOR: .00
 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES
 (MIL/GAL/DAY)

P1 0.000 P2 0.000 P3 0.000 P4 0.000 P5 0.000

BEGIN ACRES
 END ACRES
 SATURATION ACRES

D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D8 0.00 D9 0.00 D10 0.00 D11 0.00 D12 0.00 D13 0.00 D14 0.00 D15 0.00 D16 0.00 D17 0.00 D18 0.00 D19 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00 D31 0.00 D32 0.00 D33 0.00 D34 0.00 D35 0.00 D36 0.00 D37 0.00 D38 0.00 D39 0.00 D40 0.00 D41 0.00 D42 0.00 D43 0.00 D44 0.00 D45 0.00 D46 0.00 D47 0.00 D48 0.00 D49 0.00 D50 0.00 D51 0.00 D52 0.00 D53 0.00 D54 0.00 D55 0.00 D56 0.00 D57 0.00 D58 0.00 D59 0.00 D60 0.00 D61 0.00 D62 0.00 D63 0.00 D64 0.00 D65 0.00 D66 0.00 D67 0.00 D68 0.00 D69 0.00 D70 0.00 D71 0.00 D72 0.00 D73 0.00 D74 0.00 D75 0.00 D76 0.00 D77 0.00 D78 0.00 D79 0.00 D80 0.00 D81 0.00 D82 0.00 D83 0.00 D84 0.00 D85 0.00 D86 0.00 D87 0.00 D88 0.00 D89 0.00 D90 0.00 D91 0.00 D92 0.00 D93 0.00 D94 0.00 D95 0.00 D96 0.00 D97 0.00 D98 0.00 D99 0.00 D100 0.00

BEGIN ACRES
 END ACRES
 SATURATION ACRES

D15 0.00 D16 0.00 D17 0.00 D18 0.00 D19 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00 D31 0.00 D32 0.00 D33 0.00 D34 0.00 D35 0.00 D36 0.00 D37 0.00 D38 0.00 D39 0.00 D40 0.00 D41 0.00 D42 0.00 D43 0.00 D44 0.00 D45 0.00 D46 0.00 D47 0.00 D48 0.00 D49 0.00 D50 0.00 D51 0.00 D52 0.00 D53 0.00 D54 0.00 D55 0.00 D56 0.00 D57 0.00 D58 0.00 D59 0.00 D60 0.00 D61 0.00 D62 0.00 D63 0.00 D64 0.00 D65 0.00 D66 0.00 D67 0.00 D68 0.00 D69 0.00 D70 0.00 D71 0.00 D72 0.00 D73 0.00 D74 0.00 D75 0.00 D76 0.00 D77 0.00 D78 0.00 D79 0.00 D80 0.00 D81 0.00 D82 0.00 D83 0.00 D84 0.00 D85 0.00 D86 0.00 D87 0.00 D88 0.00 D89 0.00 D90 0.00 D91 0.00 D92 0.00 D93 0.00 D94 0.00 D95 0.00 D96 0.00 D97 0.00 D98 0.00 D99 0.00 D100 0.00

ZONE PROJECTIONS

YEAR 1985 1990 1995 2000 2005 2010

D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D8 0.00 D9 0.00 D10 0.00 D11 0.00 D12 0.00 D13 0.00 D14 0.00 D15 0.00 D16 0.00 D17 0.00 D18 0.00 D19 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00 D31 0.00 D32 0.00 D33 0.00 D34 0.00 D35 0.00 D36 0.00 D37 0.00 D38 0.00 D39 0.00 D40 0.00 D41 0.00 D42 0.00 D43 0.00 D44 0.00 D45 0.00 D46 0.00 D47 0.00 D48 0.00 D49 0.00 D50 0.00 D51 0.00 D52 0.00 D53 0.00 D54 0.00 D55 0.00 D56 0.00 D57 0.00 D58 0.00 D59 0.00 D60 0.00 D61 0.00 D62 0.00 D63 0.00 D64 0.00 D65 0.00 D66 0.00 D67 0.00 D68 0.00 D69 0.00 D70 0.00 D71 0.00 D72 0.00 D73 0.00 D74 0.00 D75 0.00 D76 0.00 D77 0.00 D78 0.00 D79 0.00 D80 0.00 D81 0.00 D82 0.00 D83 0.00 D84 0.00 D85 0.00 D86 0.00 D87 0.00 D88 0.00 D89 0.00 D90 0.00 D91 0.00 D92 0.00 D93 0.00 D94 0.00 D95 0.00 D96 0.00 D97 0.00 D98 0.00 D99 0.00 D100 0.00

YEAR 1985 1990 1995 2000 2005 2010

D15 0.00 D16 0.00 D17 0.00 D18 0.00 D19 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00 D31 0.00 D32 0.00 D33 0.00 D34 0.00 D35 0.00 D36 0.00 D37 0.00 D38 0.00 D39 0.00 D40 0.00 D41 0.00 D42 0.00 D43 0.00 D44 0.00 D45 0.00 D46 0.00 D47 0.00 D48 0.00 D49 0.00 D50 0.00 D51 0.00 D52 0.00 D53 0.00 D54 0.00 D55 0.00 D56 0.00 D57 0.00 D58 0.00 D59 0.00 D60 0.00 D61 0.00 D62 0.00 D63 0.00 D64 0.00 D65 0.00 D66 0.00 D67 0.00 D68 0.00 D69 0.00 D70 0.00 D71 0.00 D72 0.00 D73 0.00 D74 0.00 D75 0.00 D76 0.00 D77 0.00 D78 0.00 D79 0.00 D80 0.00 D81 0.00 D82 0.00 D83 0.00 D84 0.00 D85 0.00 D86 0.00 D87 0.00 D88 0.00 D89 0.00 D90 0.00 D91 0.00 D92 0.00 D93 0.00 D94 0.00 D95 0.00 D96 0.00 D97 0.00 D98 0.00 D99 0.00 D100 0.00

POPULATION
 1985 0
 1990 0
 1995 0
 2000 0
 2005 0
 2010 0
 SATURATION 0

AVERAGE DRY WEATHER FLOW

0.000
 0.000
 0.000
 0.000
 0.000
 0.000
 0.000

PEAK DRY WEATHER FLOW

0.000
 0.000
 0.000
 0.000
 0.000
 0.000
 0.000

PEAK WET WEATHER FLOW

0.000
 0.000
 0.000
 0.000
 0.000
 0.000
 0.000

ZONE NAME: A3001 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL							
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVERAGE DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

PEAK DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

PEAK WET WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

ZONE NAME: C0103 DATA ACTIVE: 1990
 CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 169.80

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
(MIL/GAL/DAY)

	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
BEGIN ACRES	120.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	169.80
END ACRES	121.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	169.80
SATURATION ACRES	121.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	169.80

BEGIN ACRES
END ACRES
SATURATION ACRES

ZONE PROJECTIONS

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	9.50	129.90	38.40	1.50	169.80
1990	0.00	0.00	0.00	9.50	130.14	38.46	1.20	169.80
1995	0.00	0.00	0.00	9.50	130.38	38.52	0.90	169.80
2000	0.00	0.00	0.00	9.50	130.62	38.58	0.60	169.80
2005	0.00	0.00	0.00	9.50	130.86	38.64	0.30	169.80
2010	0.00	0.00	0.00	9.50	131.10	38.70	0.00	169.80

POPULATION

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	421	0.041	0.116	0.149
1990	422	0.041	0.116	0.150
1995	423	0.041	0.116	0.150
2000	424	0.041	0.116	0.150
2005	425	0.041	0.116	0.150
2010	426	0.041	0.116	0.150
SATURATION	426	0.041	0.116	0.150

ZONE NAME: C0104 DATA ACTIVE: 1990
 CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

F1 F2 F3 F4 F5

D1 13.10
 D2 27.90
 D3 33.50
 D4 44.10

D4 D5 D6 D7

D11 0.80
 D12 0.00
 D13 0.00
 D14 0.00

BEGIN ACRES 0.00
 END ACRES 0.00
 SATURATION ACRES 0.00

D20 0.00
 D21 0.00
 D22 0.00
 D23 0.00

UDA 56.20
 TOTAL 160.00

ZONE PROJECTIONS

YEAR 1985 13.10
 1990 14.00
 1995 14.90
 2000 15.80
 2005 16.70
 2010 17.60

D15 0.00
 D16 0.00
 D17 0.00
 D18 0.00
 D19 0.00

D6 0.00
 D7 29.40
 D8 31.52
 D9 33.64
 D10 35.76
 D11 0.80
 D12 0.00
 D13 0.00
 D14 0.00

UDA 56.20
 TOTAL 160.00

YEAR 1985 0.00
 1990 0.00
 1995 0.00
 2000 0.00
 2005 0.00
 2010 0.00

D20 0.00
 D21 0.00
 D22 0.00
 D23 0.00
 D24 0.00
 D25 0.00

DVA 83.00
 MNA 20.72
 NNA 22.72
 OVA 24.71
 PVA 26.71
 QVA 28.70
 RVA 30.70

UDA 56.28
 TOTAL 160.00

POPULATION 791
 841
 891
 941
 991
 1,041
 1,091

AVERAGE DRY WEATHER FLOW

0.071
 0.079
 0.086
 0.094
 0.101
 0.109
 0.1088

PEAK WET WEATHER FLOW

0.184
 0.203
 0.223
 0.243
 0.262
 0.281
 0.269

ZONE NAME: C1101 DATA ACTIVE: 1990
CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
(MIL/GAL/DAY)

P1 0.000 P2 0.000

P3 0.000 P4 0.000

P5 0.000

BEGIN ACRES
END ACRES
SATURATION ACRES

D1 0.00 D2 128.00
0.00 128.00
0.00 128.00

D4 0.00 D5 0.00
0.00 0.00
0.00 0.00

D6 0.00 D7 0.00
0.00 0.00
0.00 0.00

D11 0.00 D12 0.00
0.00 0.00
0.00 0.00

BEGIN ACRES
END ACRES
SATURATION ACRES

D15 0.00 D17 0.00
0.00 0.00
0.00 0.00

D20 0.00 CIA 0.00
0.00 0.00
0.00 0.00

DVA 128.00 MNA 32.00
128.00 32.00
128.00 32.00

UDA 0.00 TOTAL 160.00
0.00 160.00
0.00 0.00

ZONE PROJECTIONS

YEAR 1985 1990 1995 2000 2005 2010

D1 0.00 D2 128.00
0.00 128.00
0.00 128.00
0.00 128.00
0.00 128.00

D4 0.00 D5 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00

D6 0.00 D7 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00

D11 0.00 D12 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00

YEAR 1985 1990 1995 2000 2005 2010

D15 0.00 D17 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00

D20 0.00 CIA 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00

DVA 128.00 MNA 32.00
128.00 32.00
128.00 32.00
128.00 32.00
128.00 32.00

UDA 0.00 TOTAL 160.00
0.00 160.00
0.00 160.00
0.00 160.00
0.00 160.00

YEAR 1985 1990 1995 2000 2005 2010

POPULATION 845
845
845
845
845
845

AVERAGE DRY WEATHER FLOW
0.063
0.063
0.063
0.063
0.063
0.063

PEAK DRY WEATHER FLOW
0.157
0.157
0.157
0.157
0.157
0.157

PEAK WET WEATHER FLOW
0.189
0.189
0.189
0.189
0.189
0.189

ZONE NAME: C1102 DATA ACTIVE: 1990
CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 68.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY) P1 P2 P3 P4 P5

BEGIN ACRES D1 D2 D3 D4 D5 D6 D7 D11 D12
END ACRES 0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SATURATION ACRES 0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

BEGIN ACRES D15 D17 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32
END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

ZONE PROJECTIONS

YEAR D1 D2 D3 D4 D5 D6 D7 D11 D12
1985 0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1990 0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1995 0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2000 0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2005 0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2010 0.00 45.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00

YEAR D15 D17 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32
1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

AVERAGE DRY WEATHER FLOW

1985 0.022
1990 0.022
1995 0.022
2000 0.022
2005 0.022
2010 0.022
SATURATION 0.022

PEAK DRY WEATHER FLOW

1985 0.065
1990 0.065
1995 0.065
2000 0.065
2005 0.065
2010 0.065
SATURATION 0.065

POPULATION

1985 298
1990 298
1995 298
2000 298
2005 298
2010 298
SATURATION 298

PEAK WET WEATHER FLOW

1985 0.077
1990 0.077
1995 0.077
2000 0.077
2005 0.077
2010 0.077
SATURATION 0.079

ZONE NAME: C1103 DATA ACTIVE: 1990 PROJECTION MODE: ARI
 CURVE CONSTANT: .00

TOTAL ACRES: 132.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
BEGIN ACRES	0.00	105.60	0.00	0.00	0.00	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
END ACRES	0.00	105.60	0.00	0.00	0.00	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
SATURATION ACRES	0.00	105.60	0.00	0.00	0.00	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
1990	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
1995	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
2000	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
2005	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
2010	0.00	105.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
1990	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
1995	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
2000	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
2005	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00
2010	0.00	0.00	0.00	0.00	105.60	26.40	0.00	132.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	697	0.052	0.133	0.160
1990	697	0.052	0.133	0.160
1995	697	0.052	0.133	0.160
2000	697	0.052	0.133	0.160
2005	697	0.052	0.133	0.160
2010	697	0.052	0.133	0.160
SATURATION	697	0.052	0.133	0.160

ZONE INPUT DATA ZONE NAME: C1104 DATA ACTIVE: 1985 PROJECTION MODE: LOGS TOTAL ACRES: 280.00

CURVE CONSTANT: .75 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	100.00	40.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	100.30	40.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

POPULATION VARIANCE FACTOR: 1.00	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	280.00	280.00
END ACRES	0.00	0.00	0.00	47.20	223.80	56.20	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	47.20	223.80	56.20	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	279.75	280.00
1990	0.00	0.00	0.04	0.03	0.00	0.03	0.00	0.00	279.60	280.00
1995	0.00	0.00	13.19	6.19	0.00	5.68	0.00	0.00	239.57	280.00
2000	0.00	0.00	98.34	39.30	0.00	35.47	0.00	0.00	5.50	280.00
2005	0.00	0.00	100.00	40.10	0.00	36.20	0.00	0.00	0.39	280.00
2010	0.00	0.00	100.00	40.10	0.00	36.20	0.00	0.00	0.37	280.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	1	0.000	0.000	0.001
1995	378	0.035	0.101	0.109
2000	2,585	0.240	0.552	0.607
2005	2,633	0.245	0.561	0.617
2010	2,633	0.245	0.561	0.617
SATURATION	2,637	0.245	0.562	0.618

ZONE NAME: C1201 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

P1 0.000 P2 0.000 P3 0.000 P4 0.000 P5 0.000

BEGIN ACRES 100.00
END ACRES 128.00
SATURATION ACRES 128.00

D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D8 0.00 D9 0.00 D10 0.00 D11 0.00 D12 0.00

BEGIN ACRES 0.00
END ACRES 0.00
SATURATION ACRES 0.00

D13 0.00 D14 0.00 D15 0.00 D16 0.00 D17 0.00 D18 0.00 D19 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00 D31 0.00 D32 0.00 D33 0.00 D34 0.00 D35 0.00 D36 0.00 D37 0.00 D38 0.00 D39 0.00 D40 0.00 D41 0.00 D42 0.00 D43 0.00 D44 0.00 D45 0.00 D46 0.00 D47 0.00 D48 0.00 D49 0.00 D50 0.00 D51 0.00 D52 0.00 D53 0.00 D54 0.00 D55 0.00 D56 0.00 D57 0.00 D58 0.00 D59 0.00 D60 0.00 D61 0.00 D62 0.00 D63 0.00 D64 0.00 D65 0.00 D66 0.00 D67 0.00 D68 0.00 D69 0.00 D70 0.00 D71 0.00 D72 0.00 D73 0.00 D74 0.00 D75 0.00 D76 0.00 D77 0.00 D78 0.00 D79 0.00 D80 0.00 D81 0.00 D82 0.00 D83 0.00 D84 0.00 D85 0.00 D86 0.00 D87 0.00 D88 0.00 D89 0.00 D90 0.00 D91 0.00 D92 0.00 D93 0.00 D94 0.00 D95 0.00 D96 0.00 D97 0.00 D98 0.00 D99 0.00 D100 0.00

ZONE PROJECTIONS

YEAR 1985 100.00
1990 105.60
1995 111.20
2000 116.80
2005 122.40
2010 128.00

D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D8 0.00 D9 0.00 D10 0.00 D11 0.00 D12 0.00

YEAR 1985 0.00
1990 0.00
1995 0.00
2000 0.00
2005 0.00
2010 0.00

D13 0.00 D14 0.00 D15 0.00 D16 0.00 D17 0.00 D18 0.00 D19 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00 D31 0.00 D32 0.00 D33 0.00 D34 0.00 D35 0.00 D36 0.00 D37 0.00 D38 0.00 D39 0.00 D40 0.00 D41 0.00 D42 0.00 D43 0.00 D44 0.00 D45 0.00 D46 0.00 D47 0.00 D48 0.00 D49 0.00 D50 0.00 D51 0.00 D52 0.00 D53 0.00 D54 0.00 D55 0.00 D56 0.00 D57 0.00 D58 0.00 D59 0.00 D60 0.00 D61 0.00 D62 0.00 D63 0.00 D64 0.00 D65 0.00 D66 0.00 D67 0.00 D68 0.00 D69 0.00 D70 0.00 D71 0.00 D72 0.00 D73 0.00 D74 0.00 D75 0.00 D76 0.00 D77 0.00 D78 0.00 D79 0.00 D80 0.00 D81 0.00 D82 0.00 D83 0.00 D84 0.00 D85 0.00 D86 0.00 D87 0.00 D88 0.00 D89 0.00 D90 0.00 D91 0.00 D92 0.00 D93 0.00 D94 0.00 D95 0.00 D96 0.00 D97 0.00 D98 0.00 D99 0.00 D100 0.00

POPULATION 350
1990 370
1995 389
2000 409
2005 428
2010 448

PEAK DRY WEATHER FLOW 0.075
0.078
0.082
0.085
0.088
0.092
0.092

PEAK WET WEATHER FLOW 0.100
0.105
0.109
0.114
0.119
0.124
0.124

TOTAL 160.00
TOTAL 160.00
TOTAL 160.00
TOTAL 160.00
TOTAL 160.00
TOTAL 160.00
TOTAL 160.00

ZONE NAME: C1202 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	21.10	0.00	0.00	0.00	0.000	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	21.10	0.00	0.00	0.00	0.000	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	4.40	4.40	1.10	154.50	160.00
END ACRES	0.00	0.00	0.00	66.90	128.00	32.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	66.90	128.00	32.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1989	4.22	0.00	0.00	0.00	0.00	8.00	0.00	0.00
1995	8.44	0.00	0.00	0.00	0.00	16.00	0.00	0.00
2000	12.66	0.00	0.00	0.00	0.00	24.00	0.00	0.00
2005	16.88	0.00	0.00	0.00	0.00	32.00	0.00	0.00
2010	21.10	0.00	0.00	0.00	0.00	40.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	4.40	4.40	1.10	154.50	160.00
1989	0.00	0.00	0.00	16.90	29.12	7.28	123.60	160.00
1995	0.00	0.00	0.00	29.40	53.84	13.46	92.70	160.00
2000	0.00	0.00	0.00	41.90	78.56	19.64	61.80	160.00
2005	0.00	0.00	0.00	54.40	103.28	25.82	30.90	160.00
2010	0.00	0.00	0.00	66.90	128.00	32.00	0.00	160.00

POPULATION

YEAR	POPULATION
1985	0
1990	164
1995	327
2000	491
2005	654
2010	818

AVERAGE DRY WEATHER FLOW

YEAR	AVERAGE DRY WEATHER FLOW
1985	0.004
1990	0.029
1995	0.054
2000	0.079
2005	0.103
2010	0.128

PEAK DRY WEATHER FLOW

YEAR	PEAK DRY WEATHER FLOW
1985	0.013
1990	0.090
1995	0.159
2000	0.225
2005	0.290
2010	0.353

PEAK WET WEATHER FLOW

YEAR	PEAK WET WEATHER FLOW
1985	0.014
1990	0.098
1995	0.172
2000	0.244
2005	0.315
2010	0.385

ZONE NAME: C1203 DATA ACTIVE: 1985 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
SATURATION ACRES	20.00	37.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	0.00	160.00

ZONE PROJECTIONS

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	1,923	0.154	0.349	0.381

ZONE NAME: C1301 DATA ACTIVE: 1985 PROJECTION MODE: LOGS

CURVE CONSTANT: .75 TOTAL ACRES: 635.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	635.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	295.00	106.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.00	0.00	0.00	0.00	0.00	0.00	635.00

BEGIN ACRES	END ACRES	SATURATION ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	635.00	635.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	439.00	196.00	635.00	635.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
1985	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	635.00
1990	0.00	0.00	0.00	7.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	635.00
1995	0.00	0.00	0.00	5.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	635.00
2000	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	635.00
2005	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	635.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	635.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0.00	0.00	0.00	0.00	8.00	2.00	625.00	635.00	0.030	0.030
1990	0.00	0.00	0.00	0.00	7.95	1.99	625.06	635.00	0.028	0.028
1995	0.00	0.00	0.00	0.00	5.75	1.44	627.81	635.00	0.021	0.022
2000	0.00	0.00	0.00	0.00	0.33	0.08	634.58	635.00	0.001	0.001
2005	0.00	0.00	0.00	0.00	0.01	0.00	634.99	635.00	0.000	0.000
2010	0.00	0.00	0.00	0.00	0.00	0.00	635.00	635.00	0.000	1.038

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW
1985	108	0.008	0.028
1990	107	0.008	0.028
1995	78	0.006	0.021
2000	5	0.000	0.001
2005	0	0.000	0.000
2010	0	0.000	0.000
SATURATION	6,322	0.474	0.911

ZONE NAME: C1401 DATA ACTIVE: 1990
 CURVE CONSTANT: .75

PROJECTION MODE: LOGS

TOTAL ACRES: 200.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

P1	P2	P3	P4	P5
0.045	0.000	0.000	0.000	0.000

BEGIN ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

END ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SATURATION ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	0.00	0.00	0.00	18.00	81.00	0.00	0.00

BEGIN ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00

END ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00

SATURATION ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
42.00	0.00	0.00	0.00	141.00	59.00	0.00	200.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00

AVERAGE DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.045
1990	0	0.045
1995	0	0.045
2000	0	0.045
2005	0	0.045
2010	0	0.045
SATURATION	2,898	0.262

PEAK DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.135
1990	0	0.135
1995	0	0.135
2000	0	0.135
2005	0	0.135
2010	0	0.135
SATURATION	2,898	0.632

ZONE NAME: C2401 DATA ACTIVE: 1985
 CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 635.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
(MIL/GAL/DAY)

P1 P2 P3 P4 P5

BEGIN ACRES
END ACRES
SATURATION ACRES

D1 D2 D3 D4 D5 D6 D7

D11 D12

BEGIN ACRES
END ACRES
SATURATION ACRES

D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

UDA TOTAL
635.00 635.00

ZONE PROJECTIONS

YEAR
1985
1990
1995
2000
2005
2010

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10

D11 D12

YEAR
1985
1990
1995
2000
2005
2010

D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

UDA TOTAL
635.00 635.00

POPULATION

AVERAGE DRY WEATHER FLOW

PEAK DRY WEATHER FLOW

PEAK WET WEATHER FLOW

1985 0
1990 0
1995 0
2000 0
2005 0
2010 6,587

0.000
0.000
0.000
0.000
0.000
0.514

0.000
0.000
0.000
0.000
0.000
1.005

0.000
0.000
0.000
0.000
0.000
1.132

ZONE NAME: C2601 DATA ACTIVE: 2015 PROJECTION MODE: GEOM

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY)

P1 0.000 P2 0.000 P3 0.000 P4 0.000 P5 0.000

BEGIN ACRES 0.00 D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D11 0.00 D12 0.00

END ACRES 0.00 D15 0.00 D17 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00

SATURATION ACRES 0.00 D15 0.00 D17 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	C1A	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000

ZONE NAME: C3401 DATA ACTIVE: 2015 PROJECTION MODE: GEOM

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY) P1 0.000 P2 0.000 P3 0.000 P4 0.000 P5 0.000

BEGIN ACRES D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D11 0.00 D12 0.00
 END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

BEGIN ACRES D15 0.00 D17 0.00 D20 0.00 D20 0.00 D20 0.00 DVA 0.00 MNA 0.00 UDA 0.00 TOTAL 0.00
 END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

ZONE PROJECTIONS

YEAR D1 D2 D3 D4 D5 D6 D7 D11 D12
 1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

YEAR D15 D17 D20 CIA DVA MNA UDA TOTAL
 1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

YEAR POPULATION AVERAGE DRY WEATHER FLOW PEAK DRY WEATHER FLOW PEAK WET WEATHER FLOW
 1985 0 0.000 0.000 0.000
 1990 0 0.000 0.000 0.000
 1995 0 0.000 0.000 0.000
 2000 0 0.000 0.000 0.000
 2005 0 0.000 0.000 0.000
 2010 0 0.000 0.000 0.000
 SATURATION 0 0.000 0.000 0.000

ZONE NAME: C3501 DATA ACTIVE: 2015 PROJECTION MODE: GEOM
CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00
POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL./GAL./DAY)	P1	P2	P3	P4	P5
	0.000	0.000	0.000	0.000	0.000

BEGIN ACRES	D1	D2	D3	D4	D5	D6	D7	D11	D12
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BEGIN ACRES	D15	D17	D20	C1A	DVA	MNA	UDA	TOTAL
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	C1A	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVERAGE DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

PEAK DRY WEATHER FLOW

YEAR	WEATHER FLOW
1985	0.000
1990	0.000
1995	0.000
2000	0.000
2005	0.000
2010	0.000
SATURATION	0.000

PEAK WET WEATHER FLOW

YEAR	WEATHER FLOW
1985	0.000
1990	0.000
1995	0.000
2000	0.000
2005	0.000
2010	0.000
SATURATION	0.000

ZONE NAME: C3601 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MILL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL										
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										

ZONE PROJECTIONS

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.000	0.000	0.000

ZONE NAME: D0301 DATA ACTIVE: 2000 PROJECTION MODE: GEOM
 CURVE CONSTANT: .20 TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	287.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL							
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	640.00							640.00
SATURATION ACRES	0.00	0.00	0.00	75.00	512.00	128.00	0.00	640.00							640.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL		
1985	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00		640.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00		640.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00		640.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00		640.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00		640.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00		640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	3,030	0.302	0.700	0.828

ZONE NAME: D0401 DATA ACTIVE: 1990 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
(MIL/GAL/DAY)

P1	P2	P3	P4	P5
0.000	0.000	0.000	0.000	0.000

BEGIN ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

END ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
82.40	58.20	82.40	0.00	0.00	0.00	0.00	0.00	0.00

SATURATION ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
64.00	160.00	192.00	64.00	64.00	0.00	0.00	0.00	0.00

BEGIN ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	640.00	640.00

END ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	140.60	35.10	464.30	640.00

SATURATION ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	480.00	160.00	20.00	640.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	11.64	16.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	23.28	32.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	34.92	49.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	46.56	65.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	58.20	82.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.05-	640.05	640.00
1990	0.00	0.00	0.00	0.00	28.12	6.98	604.90	640.00
1995	0.00	0.00	0.00	0.00	56.24	14.01	569.75	640.00
2000	0.00	0.00	0.00	0.00	84.36	21.04	534.60	640.00
2005	0.00	0.00	0.00	0.00	112.48	28.07	499.45	640.00
2010	0.00	0.00	0.00	0.00	140.60	35.10	464.30	640.00

POPULATION

YEAR	POPULATION
1985	0
1990	299
1995	599
2000	898
2005	1,197
2010	1,497
SATURATION	4,845

AVERAGE DRY WEATHER FLOW

WEATHER FLOW
0.000
0.022
0.045
0.067
0.090
0.112
0.363

PEAK WET WEATHER FLOW

WEATHER FLOW
0.000
0.073
0.131
0.187
0.240
0.292
0.847

ZONE NAME: D0501 DATA ACTIVE: 1990
CURVE CONSTANT: .25

PROJECTION MODE: LOGS

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

P1 P2 P3 P4 P5

D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D11 0.00 D12 0.00

D1 0.00 D2 110.00 D3 130.00 D4 130.00 D5 130.00 D6 0.00 D7 0.00 D11 0.00 D12 0.00

D11 0.00 D12 0.00

BEGIN ACRES 0.00 END ACRES 110.00 SATURATION ACRES 0.00

D20 0.00 D21 0.00 D22 0.00 D23 40.00 D24 40.00 D25 40.00 D26 454.00 D27 120.00 D28 120.00 D29 56.00 D30 0.00

UDA 640.00 TOTAL 640.00

ZONE PROJECTIONS

YEAR 1985 1990 1995 2000 2005 2010

D15 0.00 D16 0.00 D17 0.00 D18 0.00 D19 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00

D11 0.00 D12 0.00

YEAR 1985 1990 1995 2000 2005 2010

D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00

UDA 636.00 TOTAL 640.00

POPULATION 0 1 180 5,943 7,286 7,295

AVERAGE DRY WEATHER FLOW 0.000 0.000 0.015 0.477 0.586 0.587

PEAK DRY WEATHER FLOW 0.000 0.000 0.047 0.956 1.154 1.155

PEAK WET WEATHER FLOW 0.001 0.001 0.051 1.062 1.285 1.283

ZONE NAME: D0601

DATA ACTIVE: 1985

PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 125.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/R/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
(MIL/GAL/DAY)

P1	P2	P3	P4	P5
0.000	0.000	0.000	0.000	0.000

BEGIN ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	30.30	0.00	0.00	0.00	0.00	0.00	0.00

END ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00

SATURATION ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00

BEGIN ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	10.00	2.00	18.70	61.00	12.70	63.30	125.00

END ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	20.00	2.00	35.00	117.00	20.00	0.00	0.00

SATURATION ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	1.90	38.00	99.90	25.10	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	30.30	0.00	0.00	0.00	0.00	0.00	0.00	125.00
1990	0.00	0.00	36.24	0.00	0.00	0.00	0.00	0.00	0.00	125.00
1995	0.00	0.00	42.18	0.00	0.00	0.00	0.00	0.00	0.00	125.00
2000	0.00	0.00	48.12	0.00	0.00	0.00	0.00	0.00	0.00	125.00
2005	0.00	0.00	54.06	0.00	0.00	0.00	0.00	0.00	0.00	125.00
2010	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	125.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	10.00	2.00	18.70	61.00	6.00	58.00	125.00
1990	0.00	12.00	2.00	21.96	72.20	8.80	44.00	125.00
1995	0.00	14.00	2.00	25.22	83.40	11.60	30.00	125.00
2000	0.00	16.00	2.00	28.48	94.60	14.40	16.00	125.00
2005	0.00	18.00	2.00	31.74	105.80	17.20	2.00	125.00
2010	0.00	20.00	2.00	35.00	117.00	20.00	12.00	125.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	714	0.072	0.192	0.206
1990	844	0.085	0.223	0.239
1995	974	0.098	0.253	0.272
2000	1,105	0.111	0.283	0.305
2005	1,235	0.124	0.313	0.337
2010	1,365	0.137	0.342	0.369
SATURATION	862	0.103	0.274	0.299

ZONE NAME: D0602 DATA ACTIVE: 1990
 CURVE CONSTANT: .00

PROJECTION MODE: AFI

TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
 (MIL/GAL/DAY)

P1	P2	P3	P4	P5
0.000	0.000	0.000	0.000	0.000

BEGIN ACRES
 END ACRES
 SATURATION ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	0.00	53.60	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00

BEGIN ACRES
 END ACRES
 SATURATION ACRES

D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
0.00	0.00	0.00	4.50	58.10	14.50	87.40	160.00
0.00	0.00	0.00	15.00	115.00	45.00	0.00	0.00
0.00	0.00	0.00	15.00	115.00	45.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	53.60	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	42.88	0.00	0.00	0.00	20.00	0.00
1995	0.00	0.00	32.16	0.00	0.00	0.00	40.00	0.00
2000	0.00	0.00	21.44	0.00	0.00	0.00	60.00	0.00
2005	0.00	0.00	10.72	0.00	0.00	0.00	80.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	4.50	58.10	30.77	71.13	160.00
1990	0.00	0.00	0.00	6.50	69.48	33.62	56.90	160.00
1995	0.00	0.00	0.00	8.70	80.86	36.47	42.67	160.00
2000	0.00	0.00	0.00	10.80	92.24	39.31	28.45	160.00
2005	0.00	0.00	0.00	12.90	103.62	42.16	14.22	160.00
2010	0.00	0.00	0.00	15.00	115.00	45.00	0.00	160.00

POPULATION

1985	724
1990	939
1995	1,154
2000	1,369
2005	1,585
2010	1,800

AVERAGE DRY
 WEATHER FLOW

1985	0.059
1990	0.077
1995	0.095
2000	0.114
2005	0.132
2010	0.150

PEAK DRY
 WEATHER FLOW

1985	0.151
1990	0.192
1995	0.231
2000	0.270
2005	0.308
2010	0.346

PEAK WET
 WEATHER FLOW

1985	0.169
1990	0.212
1995	0.255
2000	0.296
2005	0.338
2010	0.378

ZONE NAME: D0603 DATA ACTIVE: 1985

CURVE CONSTANT: .25

TOTAL ACRES: 355.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/R/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

P1 0.000 P2 0.000 P3 0.000 P4 0.000 P5 0.000

BEGIN ACRES 0.00
END ACRES 0.00
SATURATION ACRES 0.00

D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 218.00 D6 0.00 D7 0.00 D8 0.00 D9 0.00 D10 0.00 D11 0.00 D12 0.00

BEGIN ACRES 41.00
END ACRES 41.00
SATURATION ACRES 41.00

D15 41.00 D16 41.00 D17 0.00 D18 0.00 D19 20.00 D20 0.00 D21 20.00 D22 20.00 D23 279.00 D24 279.00 D25 279.00 D26 279.00 D27 76.00 D28 76.00 D29 76.00 D30 76.00 D31 76.00 D32 76.00 D33 76.00 D34 76.00 D35 76.00 D36 76.00 D37 76.00 D38 76.00 D39 76.00 D40 76.00 D41 76.00 D42 76.00 D43 76.00 D44 76.00 D45 76.00 D46 76.00 D47 76.00 D48 76.00 D49 76.00 D50 76.00 D51 76.00 D52 76.00 D53 76.00 D54 76.00 D55 76.00 D56 76.00 D57 76.00 D58 76.00 D59 76.00 D60 76.00 D61 76.00 D62 76.00 D63 76.00 D64 76.00 D65 76.00 D66 76.00 D67 76.00 D68 76.00 D69 76.00 D70 76.00 D71 76.00 D72 76.00 D73 76.00 D74 76.00 D75 76.00 D76 76.00 D77 76.00 D78 76.00 D79 76.00 D80 76.00 D81 76.00 D82 76.00 D83 76.00 D84 76.00 D85 76.00 D86 76.00 D87 76.00 D88 76.00 D89 76.00 D90 76.00 D91 76.00 D92 76.00 D93 76.00 D94 76.00 D95 76.00 D96 76.00 D97 76.00 D98 76.00 D99 76.00 D100 76.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	218.00	0.00	0.00	0.00	0.00	355.00
1990	0.00	0.00	0.00	218.00	0.00	0.00	0.00	0.00	355.00
1995	0.00	0.00	0.00	218.00	0.00	0.00	0.00	0.00	355.00
2000	0.00	0.00	0.00	218.00	0.00	0.00	0.00	0.00	355.00
2005	0.00	0.00	0.00	218.00	0.00	0.00	0.00	0.00	355.00
2010	0.00	0.00	0.00	218.00	0.00	0.00	0.00	0.00	355.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL	PEAK WET WEATHER FLOW
1985	41.00	0.00	0.00	20.00	279.00	76.00	0.00	355.00	0.787
1990	41.00	0.00	0.00	20.00	279.00	76.00	0.00	355.00	0.787
1995	41.00	0.00	0.00	20.00	279.00	76.00	0.00	355.00	0.787
2000	41.00	0.00	0.00	20.00	279.00	76.00	0.00	355.00	0.787
2005	41.00	0.00	0.00	20.00	279.00	76.00	0.00	355.00	0.787
2010	41.00	0.00	0.00	20.00	279.00	76.00	0.00	355.00	0.787

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW
1985	4,371	0.348
1990	4,371	0.348
1995	4,371	0.348
2000	4,371	0.348
2005	4,371	0.348
2010	4,371	0.348

ZONE NAME: D0701 DATA ACTIVE: 1985
CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 211.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

P1 P2 P3 P4 P5

D1 D2 D3 D4 D5 D6 D7 D11 D12
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 50.00 0.00 0.00 25.00 0.00 0.00

UDA TOTAL
211.00 211.00

BEGIN ACRES
END ACRES
SATURATION ACRES

D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 106.00 0.00 30.00 0.00 0.00 0.00 0.00

MVA MNA
0.00 0.00
0.00 0.00
30.00 0.00

ZONE PROJECTIONS

YEAR D1 D2 D3 D4 D5 D6 D7 D11 D12
1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

UDA TOTAL
211.00 211.00
211.00 211.00
211.00 211.00
211.00 211.00
211.00 211.00

POPULATION
1985 0
1990 0
1995 0
2000 0
2005 0
2010 0
SATURATION 1,140

AVERAGE DRY WEATHER FLOW
0.000
0.000
0.000
0.000
0.000
0.000
0.192

PEAK DRY WEATHER FLOW
0.000
0.000
0.000
0.000
0.000
0.000
0.521

PEAK WET WEATHER FLOW
0.000
0.000
0.000
0.000
0.000
0.000
0.527

ZONE NAME: D0702 DATA ACTIVE: 1985 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 25.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/R/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
(MIL/GAL/DAY)

F1	F2	F3	F4	F5
0.000	0.000	0.000	0.000	0.000

BEGIN ACRES
END ACRES
SATURATION ACRES

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00

BEGIN ACRES
END ACRES
SATURATION ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00
0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00
0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00

ZONE PROJECTIONS

YEAR
1985
1990
1995
2000
2005
2010

D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00

YEAR
1985
1990
1995
2000
2005
2010

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00
0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00
0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00
0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00
0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00
0.00	0.00	0.00	0.00	0.00	0.00	25.00	25.00

POPULATION
0
0
0
0
0
270

AVERAGE DRY
WEATHER FLOW
0.000
0.000
0.000
0.000
0.000
0.020

PEAK DRY
WEATHER FLOW
0.000
0.000
0.000
0.000
0.000
0.060

PEAK WET
WEATHER FLOW
0.000
0.000
0.000
0.000
0.000
0.061

ZONE NAME: D0704 DATA ACTIVE: 2000 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 33.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

P1 0.000 P2 0.000 P3 0.000 P4 0.000 P5 0.000

BEGIN ACRES
END ACRES
SATURATION ACRES

D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D11 0.00 D12 0.00

BEGIN ACRES
END ACRES
SATURATION ACRES

D15 0.00 D17 0.00 D20 0.00 D20 0.00 CIA 0.00 DVA 0.00 MNA 0.00 UDA 0.00 TOTAL 33.00

ZONE PROJECTIONS

YEAR 1985 1990 1995 2000 2005 2010

D1 0.00 D2 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D11 0.00 D12 0.00

YEAR 1985 1990 1995 2000 2005 2010

D15 0.00 D17 0.00 D20 0.00 D20 0.00 CIA 0.00 DVA 0.00 MNA 0.00 UDA 0.00 TOTAL 33.00

AVERAGE DRY WEATHER FLOW

POPULATION 0 0 0 0 0 502

PEAK WET WEATHER FLOW

0.000 0.000 0.000 0.000 0.000 0.101

0.000 0.000 0.000 0.000 0.000 0.108

ZONE NAME: D0705 DATA ACTIVE: 2000 PROJECTION MODE: ARI TOTAL ACRES: 145.00

CURVE CONSTANT: .00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	111.00	0.00	0.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	C1A	DVA	MNA	UDA	TOTAL
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00
SATURATION ACRES	0.00	0.00	0.00	0.00	111.00	34.00	145.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
YEAR	D15	D17	D20	C1A	DVA	MNA	UDA	TOTAL	
1985	0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00	
1990	0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00	
1995	0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00	
2000	0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00	
2005	0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	145.00	145.00	

POPULATION

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,687	0.127	0.285	0.314

ZONE NAME: D0706 DATA ACTIVE: 2000 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 109.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MILL/GAL/DAY) P1 P2 P3 P4 P5

BEGIN ACRES D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12
 END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 0.00 86.00 0.00 0.00 0.00 0.00 0.00

BEGIN ACRES D15 D17 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30
 END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 SATURATION ACRES 23.00 0.00 0.00 0.00 0.00 0.00 109.00 0.00 0.00 0.00 0.00 0.00 0.00

POPULATION VARIANCE FACTOR: 1.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	109.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	109.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	109.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	109.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	109.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	109.00

POPULATION VARIANCE FACTOR: 1.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	109.00	109.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	109.00	109.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	109.00	109.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	109.00	109.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	109.00	109.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	109.00	109.00

AVERAGE DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	2,193	0.164

PEAK DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	2,193	0.358

PEAK WET WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	2,193	0.380

ZONE NAME: D0801 CURVE CONSTANT: .25 TOTAL ACRES: 535.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	535.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	535.00
SATURATION ACRES	0.00	0.00	281.00	149.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	535.00

YEAR	D15	D17	D20	C1A	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	535.00	535.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	535.00	535.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	535.00	535.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	535.00	535.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	535.00	535.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	535.00	535.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	6,058	0.459	0.892	0.999

ZONE NAME: D0802 DATA ACTIVE: 2000 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 33.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL	
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
SATURATION ACRES	0.00	0.00	0.00	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00

BBGIN ACRES

END ACRES

SATURATION ACRES

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

CURVE CONSTANT: .00

DATA ACTIVE: 2000

PROJECTION MODE: ARI

ZONE INPUT DATA

RUN 7-01-99 AT 16:36:58

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ZONE NAME: D0802

DATA ACTIVE: 2000

PROJECTION MODE: ARI

CURVE CONSTANT: .00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

CURVE CONSTANT: .00

DATA ACTIVE: 2000

PROJECTION MODE: ARI

ZONE INPUT DATA

RUN 7-01-99 AT 16:36:58

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ZONE NAME: D0802

ZONE PROJECTIONS

YEAR	D15	D17	D20	C1A	DVA	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00

ZONE PROJECTIONS

YEAR	D15	D17	D20	C1A	DVA	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00

POPULATION

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	502	0.038	0.101	0.108

ZONE NAME: D0803 DATA ACTIVE: 2000
 CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 43.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)

P1	P2	P3	P4	P5
0.000	0.000	0.000	0.000	0.000

D1	D2	D3	D4	D5	D6	D7	D11	D12
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00
0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00
0.00	0.00	0.00	0.00	37.00	6.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	43.00	43.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	562	0.042	0.111	0.120

ZONE NAME: D0804 DATA ACTIVE: 2000 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 29.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.026	0.078	0.084

ZONE NAME: D0901 DATA ACTIVE: 1990
CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 640.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5
BEGIN ACRES	D1	D2	D4	D5	D6
END ACRES	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	CIA	DVA
END ACRES	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00

D11	D7	D12
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
UDA	MNA	TOTAL
0.00	0.00	640.00
0.00	0.00	
0.00	0.00	

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

UDA	MNA	TOTAL
640.00	640.00	640.00
640.00	640.00	640.00
640.00	640.00	640.00
640.00	640.00	640.00
640.00	640.00	640.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	0	0.000	0.000	0.000

DVA	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	640.00	640.00
0.00	0.00	0.00	0.00	640.00	640.00
0.00	0.00	0.00	0.00	640.00	640.00
0.00	0.00	0.00	0.00	640.00	640.00
0.00	0.00	0.00	0.00	640.00	640.00

ZONE NAME: D1701 DATA ACTIVE: 2000 PROJECTION MODE: LOGS TOTAL ACRES: 393.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00
SATURATION ACRES	22.00	78.00	159.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00

POPULATION VARIANCE FACTOR: 1.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00

POPULATION VARIANCE FACTOR: 1.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393.00

POPULATION VARIANCE FACTOR: 1.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	2,738	0.256	0.587	0.666

ZONE NAME: D1702 DATA ACTIVE: 2000 PROJECTION MODE: ARI TOTAL ACRES: 54.00

CURVE CONSTANT: .00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00

POPULATION	D15	D17	D20	CIA	DVA	MVA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	54.00	54.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	54.00	54.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,004	0.075	0.182	0.193

ZONE NAME: D1703 DATA ACTIVE: 2000 PROJECTION MODE: ARI

CURVE CONSTANT: .00

TOTAL ACRES: 56.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY) P1 0.000 P2 0.000 P3 0.000 P4 0.000 P5 0.000

BEGIN ACRES D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D11 0.00 D12 0.00

END ACRES D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 28.00 D6 0.00 D7 0.00 D11 0.00 D12 0.00

SATURATION ACRES D1 0.00 D2 0.00 D3 25.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D11 0.00 D12 0.00

BEGIN ACRES D15 0.00 D17 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00

END ACRES D15 0.00 D17 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00

SATURATION ACRES D15 0.00 D17 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	56.00	56.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	56.00	56.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	56.00	56.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	56.00	56.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	56.00	56.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	56.00	56.00

AVERAGE DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	763	0.057

PEAK DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	763	0.144

PEAK WET WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	763	0.155

ZONE NAME: DL704 DATA ACTIVE: 2000 PROJECTION MODR: ARI TOTAL ACRES: 137.00

CURVE CONSTANT: .00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	137.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	137.00
SATURATION ACRES	0.00	0.00	0.00	97.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	137.00

BEGIN ACRES D15 D17 D20 CIA DVA MNA UDA TOTAL

END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 137.00

SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 112.00 0.00 0.00 0.00 0.00 0.00 0.00 25.00 0.00 0.00 0.00 0.00 0.00 137.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

POPULATION

YEAR	POPULATION
1985	0
1990	0
1995	0
2000	0
2005	0
2010	1,753

AVERAGE DRY WEATHER FLOW

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

PEAK DRY WEATHER FLOW

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1990	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	0.132	0.294	0.132	0.132	0.294	0.132	0.132	0.322

ZONE NAME: D1801 DATA ACTIVE: 2000 PROJECTION MODE: LOGS TOTAL ACRES: 369.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 CURVE CONSTANT: .25 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	369.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	369.00
SATURATION ACRES	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	369.00

POPULATION	D15	D17	D20	C1A	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	369.00	369.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	369.00	369.00
SATURATION ACRES	43.00	0.00	0.00	35.00	278.00	91.00	0.00	369.00

ZONE PROJECTIONS	YEAR	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	369.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	369.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	369.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	369.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	369.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	369.00

POPULATION	YEAR	D17	D20	C1A	DVA	MNA	UDA	TOTAL
0	1985	0.00	0.00	0.00	0.00	0.00	369.00	369.00
0	1990	0.00	0.00	0.00	0.00	0.00	369.00	369.00
0	1995	0.00	0.00	0.00	0.00	0.00	369.00	369.00
0	2000	0.00	0.00	0.00	0.00	0.00	369.00	369.00
0	2005	0.00	0.00	0.00	0.00	0.00	369.00	369.00
4,489	2010	0.00	0.00	0.00	0.00	0.00	369.00	369.00

POPULATION	WEATHER FLOW	WEATHER FLOW	WEATHER FLOW	WEATHER FLOW
0	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000
4,489	0.372	0.777	0.851	0.851

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128.00
SATURATION ACRES	0.00	0.00	0.00	103.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	1,566	0.117	0.267	0.292

ZONE NAME: D1803 DATA ACTIVE: 2000 PROJECTION MODE: ARI
 CURVE CONSTANT: .00 TOTAL ACRES: 64.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BEGIN ACRES	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL					
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	64.00	64.00					
SATURATION ACRES	0.00	0.00	0.00	64.00	0.00	0.00	0.00	0.00					

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL	
1985	0.00	0.00	0.00	0.00	0.00	0.00	64.00	64.00	
1990	0.00	0.00	0.00	0.00	0.00	0.00	64.00	64.00	
1995	0.00	0.00	0.00	0.00	0.00	0.00	64.00	64.00	
2000	0.00	0.00	0.00	0.00	0.00	0.00	64.00	64.00	
2005	0.00	0.00	0.00	0.00	0.00	0.00	64.00	64.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	64.00	64.00	

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	0	0.064	0.192	0.205

ZONE NAME: D1901 DATA ACTIVE: 2000 PROJECTION MODE: API

CURVE CONSTANT: .00 TOTAL ACRES: 160.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00

POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES (MIL/GAL/DAY) P1 P2 P3 P4 P5

D1 D2 D3 D4 D5 D6 D7 D11 D12

BEGIN ACRES END ACRES SATURATION ACRES

POPULATION VARIANCE FACTOR: 1.00 D15 D17 D20 D21 D22

YEAR D1 D2 D3 D4 D5 D6 D7 D11 D12

YEAR D15 D17 D20 D21 D22

POPULATION WEATHER FLOW

AVERAGE DRY WEATHER FLOW

PEAK DRY WEATHER FLOW

PEAK WET WEATHER FLOW

TOTAL

ZONE NAME: D1902 DATA ACTIVE: 2000 PROJECTION MODE: ARI
 CURVE CONSTANT: .00 TOTAL ACRES: 487.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00 COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
 POPULATION VARIANCE FACTOR: 1.00 INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
(MLL/GAL/DAY)

P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.00

BEGIN ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	0.00	0.00	0.00	487.00	487.00

END ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	50.00	0.00	0.00	487.00	487.00

SATURATION ACRES

D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
0.00	0.00	0.00	50.00	412.00	75.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.00

POPULATION

YEAR	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	487.00	487.00
1990	0.00	0.00	0.00	0.00	0.00	487.00	487.00
1995	0.00	0.00	0.00	0.00	0.00	487.00	487.00
2000	0.00	0.00	0.00	0.00	0.00	487.00	487.00
2005	0.00	0.00	0.00	0.00	0.00	487.00	487.00
2010	0.00	0.00	0.00	0.00	0.00	487.00	487.00

AVERAGE DRY WEATHER FLOW

YEAR	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1990	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SATURATION	6.062		0.505		1.027		1.125

PEAK DRY WEATHER FLOW

YEAR	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1990	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SATURATION	6.062		0.505		1.027		1.125

PEAK WET WEATHER FLOW

YEAR	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1990	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SATURATION	6.062		0.505		1.027		1.125

ZONE NAME: D2001 DATA ACTIVE: 2015
CURVE CONSTANT: .20

PROJECTION MODE: GEOM

TOTAL ACRES: 633.00

RESIDENTIAL G/C/D VARIANCE FACTOR: 1.00
POPULATION VARIANCE FACTOR: 1.00

COMMERCIAL G/A/D VARIANCE FACTOR: 1.00
INFILTRATION VARIANCE FACTOR: 1.00

POINT SOURCES
(MIL/GAL/DAY)

P1 P2 P3 P4 P5

0.000 0.000 0.000 0.000 0.000

BEGIN ACRES
END ACRES
SATURATION ACRES

D1 D2 D3 D4 D5 D6 D7

0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00
120.00 0.00 0.00 0.00 0.00 0.00 0.00

D11 D12
0.00 0.00
93.00 0.00

BEGIN ACRES
END ACRES
SATURATION ACRES

D15 D17 D20

0.00 0.00 0.00
0.00 0.00 0.00
0.00 0.00 0.00

UDA TOTAL
633.00 633.00
540.00 0.00

ZONE PROJECTIONS

YEAR
1985
1990
1995
2000
2005
2010

D1 D2 D3 D4 D5 D6 D7

0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00

D11 D12
0.00 0.00
4.59 0.00
12.59 0.00
26.52 0.00
50.78 0.00
93.00 0.00

YEAR
1985
1990
1995
2000
2005
2010

D15 D17 D20

0.00 0.00 0.00
0.00 0.00 0.00
0.00 0.00 0.00
0.00 0.00 0.00
0.00 0.00 0.00
0.00 0.00 0.00

UDA TOTAL
656.25 633.00
650.50 633.00
640.50 633.00
623.09 633.00
592.78 633.00
540.00 633.00

YEAR
1985
1990
1995
2000
2005
2010
SATURATION

POPULATION
0
83
227
477
914
1,674
6,009

AVERAGE DRY
WEATHER FLOW
0.000
0.006
0.017
0.036
0.069
0.126
0.461

PEAK DRY
WEATHER FLOW
0.000
0.022
0.052
0.097
0.168
0.283
0.901

PEAK WET
WEATHER FLOW
0.005-
0.019
0.051
0.099
0.176
0.301
1.027

ZONE NAME: D2901 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY) P1 P2 P3 P4 P5

	D1	D2	D4	D5	D6	D7	D11	D12
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000
SATURATION	0	0.000	0.000	0.000

ZONE NAME: D3001 DATA ACTIVE: 1990
CURVE CONSTANT: .00

PROJECTION MODE: ARI

TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00
POPULATION VARIANCE FACTOR: .00

COMMERCIAL G/A/D VARIANCE FACTOR: .00
INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES
(MIL/GAL/DAY)

F1 0.000 F2 0.000 F3 0.000 F4 0.000 F5 0.000

BEGIN ACRES 0.00
END ACRES 0.00
SATURATION ACRES 0.00

D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00

D11 0.00 D12 0.00
D13 0.00 D14 0.00

BEGIN ACRES 0.00
END ACRES 0.00
SATURATION ACRES 0.00

D15 0.00 D16 0.00 D17 0.00 D18 0.00 D19 0.00 D20 0.00

UDA 0.00
MNA 0.00
DVA 0.00
TOTAL 0.00

ZONE PROJECTIONS

YEAR 1985 1990 1995 2000 2005 2010
D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D8 0.00 D9 0.00 D10 0.00

D11 0.00 D12 0.00
D13 0.00 D14 0.00
D15 0.00 D16 0.00 D17 0.00 D18 0.00 D19 0.00 D20 0.00

YEAR 1985 1990 1995 2000 2005 2010
D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00

UDA 0.00
MNA 0.00
DVA 0.00
TOTAL 0.00

POPULATION 0
WEATHER FLOW 0.000
PEAK DRY WEATHER FLOW 0.000
PEAK WET WEATHER FLOW 0.000

WEATHER FLOW 0.000
PEAK DRY WEATHER FLOW 0.000
PEAK WET WEATHER FLOW 0.000

ZONE NAME: E0101 DATA ACTIVE: 1990 PROJECTION MODE: ARI

TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

CURVE CONSTANT: .00

POINT SOURCES (MIL/GAL/DAY)

P1 0.000 P2 0.000 P3 0.000 P4 0.000 P5 0.000

D1 0.00 D2 0.00 D3 0.00 D4 0.00 D5 0.00 D6 0.00 D7 0.00 D8 0.00 D9 0.00 D10 0.00 D11 0.00 D12 0.00 D13 0.00 D14 0.00 D15 0.00 D16 0.00 D17 0.00 D18 0.00 D19 0.00 D20 0.00 D21 0.00 D22 0.00 D23 0.00 D24 0.00 D25 0.00 D26 0.00 D27 0.00 D28 0.00 D29 0.00 D30 0.00 D31 0.00 D32 0.00 D33 0.00 D34 0.00 D35 0.00 D36 0.00 D37 0.00 D38 0.00 D39 0.00 D40 0.00 D41 0.00 D42 0.00 D43 0.00 D44 0.00 D45 0.00 D46 0.00 D47 0.00 D48 0.00 D49 0.00 D50 0.00 D51 0.00 D52 0.00 D53 0.00 D54 0.00 D55 0.00 D56 0.00 D57 0.00 D58 0.00 D59 0.00 D60 0.00 D61 0.00 D62 0.00 D63 0.00 D64 0.00 D65 0.00 D66 0.00 D67 0.00 D68 0.00 D69 0.00 D70 0.00 D71 0.00 D72 0.00 D73 0.00 D74 0.00 D75 0.00 D76 0.00 D77 0.00 D78 0.00 D79 0.00 D80 0.00 D81 0.00 D82 0.00 D83 0.00 D84 0.00 D85 0.00 D86 0.00 D87 0.00 D88 0.00 D89 0.00 D90 0.00 D91 0.00 D92 0.00 D93 0.00 D94 0.00 D95 0.00 D96 0.00 D97 0.00 D98 0.00 D99 0.00 D100 0.00

BEGIN ACRES 0.00 END ACRES 0.00 SATURATION ACRES 0.00

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BEGIN ACRES 0.00 END ACRES 0.00 SATURATION ACRES 0.00

BEGIN ACRES 0.00 END ACRES 0.00 SATURATION ACRES 0.00

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.16	0.00	0.16	0.04	0.20	0.00
1995	0.00	0.00	0.32	0.00	0.32	0.08	0.40	0.00
2000	0.00	0.00	0.48	0.00	0.48	0.12	0.60	0.00
2005	0.00	0.00	0.64	0.00	0.64	0.16	0.80	0.00
2010	0.00	0.00	0.80	0.00	0.80	0.20	1.00	0.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000

YEAR	SATURATION
1985	0.000
1990	0.000
1995	0.000
2000	0.000
2005	0.000
2010	0.000

ZONE NAME: E0201 DATA ACTIVE: 2015 PROJECTION MODE: GEOM

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00

POPULATION VARIANCE FACTOR: .00	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D1	D2	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

POPULATION

YEAR	POPULATION
1985	0
1990	0
1995	0
2000	0
2005	0
2010	0
SATURATION	0

AVERAGE DRY WEATHER FLOW

YEAR	WEATHER FLOW
1985	0.000
1990	0.000
1995	0.000
2000	0.000
2005	0.000
2010	0.000
SATURATION	0.000

PEAK DRY WEATHER FLOW

YEAR	WEATHER FLOW
1985	0.000
1990	0.000
1995	0.000
2000	0.000
2005	0.000
2010	0.000
SATURATION	0.000

PEAK WET WEATHER FLOW

YEAR	WEATHER FLOW
1985	0.000
1990	0.000
1995	0.000
2000	0.000
2005	0.000
2010	0.000
SATURATION	0.000

ZONE NAME: E1201 DATA ACTIVE: 2015 PROJECTION MODE: GEOM

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY)	P1	P2	P3	P4	P5	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	TOTAL
BEGIN ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
END ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION ACRES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ZONE PROJECTIONS

YEAR	D15	D17	D20	C1A	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVERAGE DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

PEAK DRY WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

PEAK WET WEATHER FLOW

YEAR	POPULATION	WEATHER FLOW
1985	0	0.000
1990	0	0.000
1995	0	0.000
2000	0	0.000
2005	0	0.000
2010	0	0.000
SATURATION	0	0.000

ZONE NAME: F0501 DATA ACTIVE: 2015 PROJECTION MODE: ARI

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY) P1 P2 P3 P4 P5

BEGIN ACRES D1 D2 D3 D4 D5 D6 D7 D11 D12
END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

ZONE PROJECTIONS

YEAR D15 D17 D20 D2 D4 D5 D6 D7 D11 D12
1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

YEAR D15 D17 D20 D2 D4 D5 D6 D7 D11 D12
1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

YEAR POPULATION AVERAGE DRY WEATHER FLOW PEAK DRY WEATHER FLOW PEAK WET WEATHER FLOW
1985 0 0.000 0.000 0.000
1990 0 0.000 0.000 0.000
1995 0 0.000 0.000 0.000
2000 0 0.000 0.000 0.000
2005 0 0.000 0.000 0.000
2010 0 0.000 0.000 0.000
SATURATION 0 0.000 0.000 0.000

ZONE NAME: F0701 DATA ACTIVE: 2015 PROJECTION MODE: GEOM

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL/GAL/DAY) P1 P2 P3 P4 P5

BEGIN ACRES D1 D2 D3 D4 D5 D6 D7 D11 D12

END ACRES D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

SATURATION ACRES D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

BEGIN ACRES D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

END ACRES D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

SATURATION ACRES D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

POPULATION D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

AVERAGE DRY WEATHER FLOW D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

PEAK DRY WEATHER FLOW D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

PEAK WET WEATHER FLOW D15 D17 D20 D21 D22 D23 D24 D25 D26 D27

POPULATION 0 0 0 0 0 0 0 0 0 0

POPULATION 0 0 0 0 0 0 0 0 0 0

POPULATION 0 0 0 0 0 0 0 0 0 0

POPULATION 0 0 0 0 0 0 0 0 0 0

ZONE NAME: F0801 DATA ACTIVE: 2015 PROJECTION MODE: GEOM

CURVE CONSTANT: .00 TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

POINT SOURCES (MIL./GAL/DAY) P1 P2 P3 P4 P5

BEGIN ACRES D1 D2 D4 D5 D6 D7 D11 D12

END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

BEGIN ACRES D15 D17 D20 CIA DVA MNA UDA TOTAL

END ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

SATURATION ACRES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

ZONE PROJECTIONS

YEAR D1 D2 D4 D5 D6 D7 D11 D12

1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

YEAR D15 D17 D20 CIA DVA MNA UDA TOTAL

1985 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

1990 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

1995 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

2005 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

2010 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

YEAR POPULATION AVERAGE DRY WEATHER FLOW

1985 0 0.000

1990 0 0.000

1995 0 0.000

2000 0 0.000

2005 0 0.000

2010 0 0.000

PEAK WET WEATHER FLOW

0.000

0.000

0.000

0.000

0.000

0.000

PEAK DRY WEATHER FLOW

0.000

0.000

0.000

0.000

0.000

0.000

ZONE NAME: F1801 DATA ACTIVE: 2015 PROJECTION MODE: ARI

TOTAL ACRES: 0.00

RESIDENTIAL G/C/D VARIANCE FACTOR: .00 COMMERCIAL G/A/D VARIANCE FACTOR: .00

POPULATION VARIANCE FACTOR: .00 INFILTRATION VARIANCE FACTOR: .00

CURVE CONSTANT: .00

POINT SOURCES (MIL/GAL/DAY)

BEGIN ACRES END ACRES SATURATION ACRES

ZONE PROJECTIONS

YEAR	D1	D2	D3	D4	D5	D6	D7	D11	D12	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	0	0.000	0.000	0.000
1990	0	0.000	0.000	0.000
1995	0	0.000	0.000	0.000
2000	0	0.000	0.000	0.000
2005	0	0.000	0.000	0.000
2010	0	0.000	0.000	0.000

SATURATION

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	0.00	0.00	38.30	218.00	0.00	0.00	0.00	0.00
1990	244.62	319.48	103.61	218.05	0.00	39.55	20.80	0.00
1995	255.74	334.98	129.39	227.34	0.00	55.32	40.80	0.00
2000	266.86	434.31	323.90	363.53	0.00	95.23	60.84	0.00
2005	277.98	467.59	360.55	387.94	0.00	106.08	80.82	0.00
2010	289.10	480.50	372.40	388.10	0.00	116.20	100.80	0.00

YEAR	D15	D17	D20	C1A	DVA	MNA	UDA	TOTAL
1985	41.00	10.00	2.00	38.70	348.00	84.25	2,153.75	2,586.00
1990	41.02	12.00	2.00	90.64	1,091.75	296.729	5,280.76	6,668.80
1995	43.76	14.00	2.00	120.60	1,223.93	329.34	5,115.52	6,668.80
2000	130.33	16.00	2.00	211.46	1,904.47	499.47	7,144.85	9,548.80
2005	150.85	18.00	2.00	242.80	2,094.60	546.99	6,907.20	9,548.80
2010	151.00	20.00	2.00	264.60	2,184.70	569.53	6,794.57	9,548.80

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW
1985	5,193	0.450
1990	10,199	0.921
1995	11,604	1.056
2000	20,382	1.806
2005	22,645	2.006
2010	23,534	2.095

YEAR	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	1.002	1.089
1990	2.268	2.549
1995	2.622	2.933
2000	4.167	4.649
2005	4.576	5.105
2010	4.775	5.327

YEAR	D1	D2	D4	D5	D6	D7	D11	D12
1985	233.50	306.70	91.90	218.00	0.00	29.40	0.90	0.00
1990	244.62	319.48	103.61	218.05	0.00	39.55	25.47	0.00
1995	255.74	334.98	129.39	227.34	0.00	55.32	53.45	0.00
2000	265.86	434.31	323.90	363.53	0.00	95.23	87.36	0.00
2005	277.98	467.59	360.55	387.94	0.00	106.08	131.60	0.00
2010	289.10	480.50	372.40	388.10	0.00	116.20	193.80	0.00
YEAR	D15	D17	D20	CIA	DVA	MNA	UDA	TOTAL
1985	41.00	10.00	2.00	68.90	1,002.30	250.67	8,928.84	10,181.80
1990	41.02	12.00	2.00	90.64	1,096.43	274.21	8,811.16	10,181.80
1995	43.76	14.00	2.00	120.60	1,236.59	309.25	8,635.95	10,181.80
2000	130.33	16.00	2.00	211.46	1,930.99	482.85	7,767.94	10,181.80
2005	150.85	18.00	2.00	242.80	2,145.38	536.43	7,499.98	10,181.80
2010	151.00	20.00	2.00	264.60	2,277.70	569.53	7,334.57	10,181.80

YEAR	POPULATION	AVERAGE DRY WEATHER FLOW	PEAK DRY WEATHER FLOW	PEAK WET WEATHER FLOW
1985	9,321	0.833	2.031	2.284
1990	10,283	0.927	2.290	2.568
1995	11,832	1.073	2.674	2.984
2000	20,859	1.842	4.264	4.748
2005	23,559	2.075	4.744	5.281
2010	25,208	2.221	5.058	5.628
SATURATION	88,309	7.519	16.503	18.352

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER SKELETON SYSTEM

NUMBER OF ZONES: 64 NUMBER OF SEWERS: 55

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: EXTRA SECTION #: 0 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY

0 0 0 0 0 0 0

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 0

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0
SAT	0	0	0	0	0	0	0

SEMSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: GA01A SECTION #: 0 BASE MAP: 0

DIAMETER 0 LENGTH 0 SLOPE .0026 INSTALLED 0 MATERIAL PVC ROUGHNESS .01 CAPACITY 1.531

TRIBUTARY CONTRIBUTION 1 NUMBER OF TRIBUTARIES: 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	1.531
1990	0	0	0	0 *	0 *	0 *	1.531
1995	0	0	0	0 *	0 *	0 *	1.531
2000	0	0	0	0 *	0 *	0 *	1.531
2005	0	0	0	0 *	0 *	0 *	1.531
2010	0	0	0	0 *	0 *	0 *	1.531
SAT	6062	362	50	.505	1.027	1.125	1.531

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC002 SECTION #: 11 BASE MAP: 0

DIAMETER 8 LENGTH 0 SLOPE .005 INSTALLED MATERIAL .013 ROUGHNESS .013 CAPACITY .554

TRIBUTARY CONTRIBUTION .5 NUMBER OF TRIBUTARIES: 1

CL104

YEAR	POPS	TRAS	CIAS	ADMFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	.554
1990	1	.05	.01	0 *	0 *	0 *	.554
1995	189	12.53	3.54	.018 *	.055 *	.059	.554
2000	1293	86.55	23.14	.12	.296	.323	.554
2005	1317	88.15	23.6	.122	.301	.329	.554
2010	1317	88.15	23.6	.122	.301	.329	.554
SAT	1319	88.3	23.6	.122	.301	.329	.554

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC016 SECTION #: 10 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .007 0 .013 1.189

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 4

C0104 .6
 C1202 .25
 SC017 1
 SC024 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	1.189
1990	3026	484.05	29.61	.256	.563	.692	1.189
1995	3239	504.44	44.41	.286	.637	.774	1.189
2000	3453	524.82	59.22	.318	.71	.857	1.189
2005	3665	545.21	74.02	.347	.783	.939	1.189
2010	3880	565.6	88.83	.379	.857	1.021	1.189
SAT	3714	565.6	88.83	.366	.834	1.001	1.189

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC017 SECTION #: 12 BASE MAP: 0

DIAMETER 8 LENGTH 0 SLOPE .0044 MATERIAL INSTALLED 0 ROUGHNESS .013 CAPACITY .52

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 3

C0103 .35
 C1201 1
 SC018 1

YEAR	POPS	TRAS	CIAS	ADWFS	EDWFS	PWFS	CAP
1985	0	0	0	0 *	0 *	0 *	.52
1990	2358	426.62	3.32	.179	.391	.499 *	.52
1995	2377	432.31	3.32	.18	.394	.503 *	.52
2000	2397	437.99	3.32	.182	.397	.507 *	.52
2005	2417	443.68	3.32	.183	.399	.512 *	.52
2010	2437	449.36	3.32	.185	.402	.516 *	.52
SAT	2437	449.36	3.32	.185	.402	.518 *	.52

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC018 SECTION #: 11 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 8 0 .0044 0 .013 .52

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 3

C1102 1
 C1103 1
 SC019 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	.52
1990	1840	278.8	0	.137	.307	.377	.52
1995	1840	278.8	0	.137	.307	.377	.52
2000	1840	278.8	0	.137	.307	.377	.52
2005	1840	278.8	0	.137	.307	.377	.52
2010	1840	278.8	0	.137	.307	.377	.52
SAT	1840	278.8	0	.137	.307	.379	.52

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC019 SECTION #: 10 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 8 0 .0044 0 .013 .52

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1
 C1101 1

YEAR	POPS	TRAS	CIAS	ADWFS	EDWFS	PWWFS	CAP
1985	0	0	0 *	0 *	0 *	0 *	.52
1990	845	128	0	.063	.157	.189	.52
1995	845	128	0	.063	.157	.189	.52
2000	845	128	0	.063	.157	.189	.52
2005	845	128	0	.063	.157	.189	.52
2010	845	128	0	.063	.157	.189	.52
SAT	845	128	0	.063	.157	.189	.52

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC024 SECTION #: 12 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 8 0 .0044 0 .013 .52

TRIBUTARY CONTRIBUTION .75
 C1202 NUMBER OF TRIBUTARIES: 1

YEAR	POPS	TRAS	CITAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	.52
1990	123	9.16	12.67	.022 *	.07	.075	.52
1995	245	18.33	22.05	.041 *	.122	.132	.52
2000	368	27.49	31.42	.059	.172	.187	.52
2005	491	36.66	40.8	.077	.221	.241	.52
2010	614	45.83	50.18	.096	.27	.294	.52
SAT	614	45.83	50.18	.096	.27	.294	.52

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC025 SECTION #: 12 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 15 0 .0021 0 .01 2.495

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

C1204 1
 SC026 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDMFS	PWFWS	CAP
1985	0	0	0	.022 *	.154 *	.154 *	2.495
1990	1	-1	.03	.051 *	.154 *	.154 *	2.495
1995	378	25.06	7.08	.086 *	.255	.263	2.495
2000	2585	173.11	46.29	.291	.706	.761	2.495
2005	2633	176.3	47.2	.296	.715	.771	2.495
2010	2633	176.3	47.2	.296	.715	.771	2.495
SAT	7306	441.25	157.2	.756	1.662	1.808	2.495

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC026 SECTION #: 12 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .0038 0 .01 1.851

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 3

C1203 1
 SC027 1
 SC036 1

YEAR	POPS	TRAS	CIAS	ADWFS	PWFWS	PWFWS	CAP
1985	0	0	0	0 *	.088 *	.088 *	1.851
1990	1	.1	.03	.029 *	.088 *	.068 *	1.851
1995	378	25.06	7.08	.064 *	.189	.197	1.851
2000	2585	173.11	46.29	.269	.64	.695	1.851
2005	2633	176.3	47.2	.274	.649	.705	1.851
2010	2633	176.3	47.2	.274	.649	.705	1.851
SAT	6444	399.25	57.2	.569	1.186	1.3	1.851

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC027 SECTION #: 11 BASE MAP: 0

DIAMETER 8 LENGTH 0 SLOPE .009 INSTALLED 0 MATERIAL .01 ROUGHNESS .01 CAPACITY .967

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

C1104 .5
SC002 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	.967
1990	1	.1	.03	0 *	0 *	0 *	.967
1995	378	25.06	7.08	.035 *	.101	.109	.967
2000	2585	173.11	46.29	.24	.552	.607	.967
2005	2633	176.3	47.2	.245	.561	.617	.967
2010	2633	176.3	47.2	.245	.561	.617	.967
SAT	2637	176.6	47.2	.245	.562	.618	.967

SEWST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC033 SECTION #: 13 BASE MAP: 0
 DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .0026 0 .013 .724

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

C1301 .3
 C1401 .35

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	32	2.4	0	.002 *	.056 *	.057 *	.724
1990	32	2.38	0	.018 *	.056 *	.057 *	.724
1995	23	1.72	0	.018 *	.054 *	.054 *	.724
2000	2	.1	0	.016 *	.048 *	.048 *	.724
2005	0	0	0	.016 *	.047 *	.047 *	.724
2010	0	0	0	.016 *	.047 *	.047 *	.724
SAT	2911	181.05	0	.234	.506	.558	.724

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC035 SECTION #: 13 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .6 0 .013 1.101

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1

C1301 .7

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFS	CAP
1985	76	5.6	0	.006 *	.02 *	.022 *	1.101
1990	75	5.56	0	.006 *	.02 *	.022 *	1.101
1995	55	4.02	0	.004 *	.015 *	.016 *	1.101
2000	4	.23	0	0 *	.001 *	.001 *	1.101
2005	0	.01	0	0 *	0 *	0 *	1.101
2010	0	0	0	0 *	0 *	0 *	1.101
SAT	4425	307.3	0	.332	.663	.752	1.101

SEWEYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SC036 SECTION #: 14 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 8 0 .0044 0 .013 .52

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1
 C1401 .65

YEAR	POFS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	.088	.088	.52
1990	0	0	0	.029 *	.088	.088	.52
1995	0	0	0	.029 *	.088	.088	.52
2000	0	0	0	.029 *	.088	.088	.52
2005	0	0	0	.029 *	.088	.088	.52
2010	0	0	0	.029 *	.088	.088	.52
SAT	1884	91.65	0	.17	.401	.427	.52

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD001 SECTION #: 6 BASE MAP: 0

DIAMETER 8 LENGTH 0 SLOPE .004 INSTALLED MATERIAL ROUGHNESS CAPACITY
 0 0 .013 .496

TRIBUTARY CONTRIBUTION .38 NUMBER OF TRIBUTARIES: 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	FWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	.496
1990	0	0	0	0 *	0 *	0 *	.496
1995	0	0	0	0 *	0 *	0 *	.496
2000	0	0	0	0 *	0 *	0 *	.496
2005	0	0	0	0 *	0 *	0 *	.496
2010	0	0	0	0 *	0 *	0 *	.496
SAT	433	28.5	40.28	.073	.21	.212	.496

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD003 SECTION #: 6 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .0036 0 .013 .852

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D0603 .5
 SD001 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	2186	129.5	10	.174	.387	.422	.852
1990	2186	129.5	10	.174	.387	.422	.852
1995	2186	129.5	10	.174	.387	.422	.852
2000	2186	129.5	10	.174	.387	.422	.852
2005	2186	129.5	10	.174	.387	.422	.852
2010	2186	129.5	10	.174	.387	.422	.852
SAT	2619	158	50.28	.247	.569	.606	.852

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD002 SECTION #: 7 EASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 8 0 .004 0 .013 .496

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D0603 .4
 D0702 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	1748	103.6	8	.139	.318	.346	.496
1990	1748	103.6	8	.139	.318	.346	.496
1995	1748	103.6	8	.139	.318	.346	.496
2000	1748	103.6	8	.139	.318	.346	.496
2005	1748	103.6	8	.139	.318	.346	.496
2010	1748	103.6	8	.139	.318	.346	.496
SAT	2018	123.6	8	.159	.357	.386	.496

SEMSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD004 SECTION #: 7 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .0044 0 .013 .942

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D0703 .5
 SD008 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	.942
1990	0	0	0	0 *	0 *	0 *	.942
1995	0	0	0	0 *	0 *	0 *	.942
2000	0	0	0	0 *	0 *	0 *	.942
2005	0	0	0	0 *	0 *	0 *	.942
2010	0	0	0	0 *	0 *	0 *	.942
SAT	1176	83.5	40.28	.128	.329	.332	.942

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD005 SECTION #: 5 BASE MAP: 0

DIAMETER 27 LENGTH 0 SLOPE .007 INSTALLED 0 MATERIAL .013 ROUGHNESS .013 CAPACITY 16.791

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

SD004 1
SD011 1

YEAR	POPS	TRAS	CIAS	ADWFS	PWFS	PWFWS	CAP
1985	108	8	0	.03 *	.229 *	.231 *	16.791
1990	108	8.05	.03	.075 *	.229 *	.231 *	16.791
1995	456	30.81	7.08	.108 *	.315 *	.325 *	16.791
2000	2591	173.48	46.29	.307 *	.754 *	.809 *	16.791
2005	2633	176.33	47.2	.312 *	.762 *	.818 *	16.791
2010	2633	176.3	47.2	.312 *	.762 *	.818 *	16.791
SAT	46587	2994.85	456.42	4.017	7.19	8.009	16.791

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD006 SECTION #: 5 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 27 0 .0025 0 .013 10.035

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 4

D0602 .25
 SD002 1
 SD003 1
 SD005 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFPS	CAP
1985	4042	241.1	18	.343 *	.867 *	.933 *	10.035
1990	4277	256.87	19.68	.407 *	.903 *	.975 *	10.035
1995	4678	281.95	27.26	.445 *	.98 *	1.059	10.035
2000	6867	426.94	66.99	.649 *	1.383	1.508	10.035
2005	6963	432.11	68.43	.658 *	1.399	1.527	10.035
2010	7017	434.4	68.95	.663 *	1.408	1.536	10.035
SAT	51674	3301.45	518.45	4.461	7.944	8.838	10.035

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD007 SECTION #: 5 BASE MAP: 0

DIAMETER 27 LENGTH 0 SLOPE .003 INSTALLED 0 MATERIAL .013 ROUGHNESS 10.992 CAPACITY 10.992

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

SD006 1

SD067 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	4479	267	20	.378 *	.931 *	1.004 *	10.992
1990	8444	813.98	56.24	.756 *	1.55	1.773	10.992
1995	9220	866.41	80.19	.837 *	1.719	1.961	10.992
2000	11784	1038.74	136.31	1.087 *	2.204	2.503	10.992
2005	12254	1071.26	154.12	1.139	2.315	2.627	10.992
2010	12684	1100.9	171.03	1.189	2.418	2.741	10.992
SAT	57175	3967.95	620.52	4.974	8.861	9.952 *	10.992

SEMSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD008 SECTION #: 7 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .0044 0 .013 .942

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1
 D0701 .38

YEAR	POPS	TRAS	CIAS	ADWFS	PDMFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	.942
1990	0	0	0	0 *	0 *	0 *	.942
1995	0	0	0	0 *	0 *	0 *	.942
2000	0	0	0	0 *	0 *	0 *	.942
2005	0	0	0	0 *	0 *	0 *	.942
2010	0	0	0	0 *	0 *	0 *	.942
SAT	433	28.5	40.28	.073 *	.21	.212	.942

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD01A SECTION #: 34 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 24 0 .0011 0 PVC .01 6.321

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

SD09B 1
 SD10B 1

YEAR	POPS	TRAS	CIAS	ADWFS	EDWFS	PWFS	CAP
1985	108	8	0	.008 *	.076 *	.078 *	6.321
1990	107	7.95	0	.024 *	.075 *	.077 *	6.321
1995	78	5.75	0	.022 *	.068 *	.07 *	6.321
2000	6	.37	0	.016 *	.049 *	.049 *	6.321
2005	0	.03	0	.016 *	.047 *	.047 *	6.321
2010	0	0	0	.016 *	.047 *	.047 *	6.321
SAT	37089	2397.1	233.5	3.031	5.298	5.965 *	6.321

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD01B SECTION #: 340 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 24 0 .0069 0 PVC .01 15.855

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1

SD01A 1

YEAR	POPS	TRAS	CIAS	ADMFS	PDWFS	PWFES	CAP
1985	108	8	0	.008 *	.076 *	.078 *	15.855
1990	107	7.95	0	.024 *	.075 *	.077 *	15.855
1995	78	5.75	0	.022 *	.068 *	.07 *	15.855
2000	6	.37	0	.016 *	.049 *	.049 *	15.855
2005	0	.03	0	.016 *	.047 *	.047 *	15.855
2010	0	0	0	.016 *	.047 *	.047 *	15.855
SAT	37089	2397.1	233.5	3.031	5.298	5.965	15.855

SENSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD010 SECTION #: 7 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .0044 0 .01 1.992

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D0703 .5
 SD012 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	.022 *	.154 *	.154 *	1.992
1990	1	.1	.03	.051 *	.154 *	.154 *	1.992
1995	378	25.06	7.08	.086 *	.255	.263	1.992
2000	2585	173.11	46.29	.291	.706	.761	1.992
2005	2633	176.3	47.2	.296	.715	.771	1.992
2010	2633	176.3	47.2	.296	.715	.771	1.992
SAT	8322	514.25	182.64	.858	1.867 *	2.015 *	1.992

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD011 SECTION #: 8 BASE MAP: 0
 DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 24 0 .0042 0 PVC .01 12.352

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	108	8	0	.03 *	.229 *	.231 *	12.352
1990	108	8.05	.03	.075 *	.229 *	.231 *	12.352
1995	456	30.81	7.08	.108 *	.315 *	.325 *	12.352
2000	2591	173.48	46.29	.307 *	.754 *	.809 *	12.352
2005	2633	176.33	47.2	.312 *	.762 *	.818 *	12.352
2010	2633	176.3	47.2	.312 *	.762 *	.818 *	12.352
SAT	45411	2911.35	416.14	3.889	6.938	7.753	12.352

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD012 SECTION #: 7 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .0046 0 .01 2.037

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D0701 .24
 SC025 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	.022 *	.154 *	.154 *	2.037
1990	1	.1	.03	.051 *	.154 *	.154 *	2.037
1995	378	25.06	7.08	.086 *	.255	.263	2.037
2000	2585	173.11	46.29	.291	.706	.761	2.037
2005	2633	176.3	47.2	.296	.715	.771	2.037
2010	2633	176.3	47.2	.296	.715	.771	2.037
SAT	7579	459.25	182.64	.802	1.773	1.921 *	2.037

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD03A SECTION #: 4 BASE MAP: 0

DIAMETER 30 LENGTH 0 SLOPE .0013 MATERIAL INSTALLED PVC ROUGHNESS .01 CAPACITY 12.458

TRIBUTARY CONTRIBUTION .25 NUMBER OF TRIBUTARIES: 2

D0401 1
SDS04 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	4479	267	20	.378 *	.931 *	1.004 *	12.458
1990	8595	828.12	56.25	.767 *	1.569	1.796	12.458
1995	9699	906.35	81.41	.874 *	1.783	2.035	12.458
2000	18176	1472.04	167.48	1.597	3.067	3.483	12.458
2005	20139	1606.88	194.02	1.77	3.379	3.835	12.458
2010	20727	1651.2	211.03	1.832	3.499	3.97	12.458
SAT	78693	5628.45	721.52	6.686	11.525 *	13.057 *	12.458

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD03B SECTION #: 4 EASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 24 0 .0013 0 PVC .01 18.181

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1

SD03A

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFS	CAP
1985	4479	267	20	.378 *	.931 *	1.004 *	18.181
1990	8595	828.12	56.25	.767 *	1.569 *	1.796 *	18.181
1995	9699	906.35	81.41	.874 *	1.783 *	2.035	18.181
2000	18176	1472.04	167.48	1.597 *	3.067	3.483	18.181
2005	20139	1606.88	194.02	1.77 *	3.379	3.835	18.181
2010	20727	1651.2	211.03	1.832	3.499	3.97	18.181
SAT	78693	5628.45	721.52	6.688	11.525	13.057	18.181

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD06A SECTION #: 5 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 16 0 .0296 0 .011 10.113

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1
 SD007 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	4479	267	20	.378 *	.931 *	1.004 *	10.113
1990	8444	813.98	56.24	.756 *	1.55	1.773	10.113
1995	9220	866.41	80.19	.837 *	1.719	1.961	10.113
2000	11784	1038.74	136.31	1.087	2.204	2.503	10.113
2005	12254	1071.26	154.12	1.139	2.315	2.627	10.113
2010	12684	1100.9	171.03	1.189	2.418	2.741	10.113
SAT	57175	3967.95	620.52	4.974	8.861	9.952 *	10.113

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD06B SECTION #: 5 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 24 0 .0016 0 PVC .01 7.642

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1

SD06A

YEAR	POPS	TRAS	CTAS	ADWFS	PWFS	PWFS	CAP
1985	4479	267	20	.378 *	.931	1.004	7.642
1990	8444	813.98	56.24	.756 *	1.55	1.773	7.642
1995	9220	866.41	80.19	.837	1.719	1.961	7.642
2000	11784	1038.74	136.31	1.087	2.204	2.503	7.642
2005	12254	1071.26	154.12	1.139	2.315	2.627	7.642
2010	12684	1100.9	171.03	1.189	2.418	2.741	7.642
SAT	57175	3967.95	620.52	4.974	8.861 *	9.952 *	7.642

SEMSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD06C SECTION #: 5 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 24 0 .0114 0 PVC .01 20.305

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1
 SD06E 1

YEAR	POPS	TRAS	CIRAS	ADWFS	PDWFS	PWFWS	CAP
1985	4479	267	20	.378 *	.931 *	1.004 *	20.305
1990	8444	813.98	56.24	.756 *	1.55 *	1.773 *	20.305
1995	9220	866.41	80.19	.837 *	1.719 *	1.961 *	20.305
2000	11784	1038.74	136.31	1.087 *	2.204	2.503	20.305
2005	12254	1071.26	154.12	1.139 *	2.315	2.627	20.305
2010	12684	1100.9	171.03	1.189 *	2.418	2.741	20.305
SAT	57175	3967.95	620.52	4.974	8.861	9.952	20.305

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD066 SECTION #: 6 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .0044 0 .01 1.992

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D0603 .1

SC016 1

YEAR	POPS	TRAS	CIAS	ADMFS	PDWFS	PWDFS	CAP
1985	437	25.9	2	.035 *	.096 *	.103 *	1.992
1990	3463	509.95	31.61	.291	.629	.765	1.992
1995	3676	530.34	46.41	.321	.702	.847	1.992
2000	3890	550.72	61.22	.353	.775	.929	1.992
2005	4102	571.11	76.02	.382	.848	1.011	1.992
2010	4317	591.5	90.83	.414	.921	1.092	1.992
SAT	4151	591.5	90.83	.401	.899	1.073	1.992

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD067 SECTION #: 6 BASE MAP: 0

DIAMETER 12 LENGTH 0 SLOPE .0042 MATERIAL 0 INSTALLED .01 ROUGHNESS 1 CAPACITY 1.992

TRIBUTARY CONTRIBUTION .75 NUMBER OF TRIBUTARIES: 2

SD066 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWS	CAP
1985	437	25.9	2	.035 *	.096 *	.103 *	1.992
1990	4168	557.11	36.56	.348	.739	.89	1.992
1995	4541	584.46	52.94	.392	.837	1	1.992
2000	4917	611.8	69.52	.438	.936	1.109	1.992
2005	5291	639.15	85.7	.481	1.034	1.219	1.992
2010	5667	666.5	102.08	.526	1.132	1.328	1.992
SAT	5501	666.5	102.08	.513	1.111	1.309	1.992

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD09A SECTION #: 7 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .004 0 PVC .01 1.9

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 4

D0701 .25
 D0706 1
 SC033 1
 SC035 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFS	CAP
1985	108	8	0	.008 *	.076 *	.078 *	1.9
1990	107	7.95	0	.024 *	.075 *	.077 *	1.9
1995	78	5.75	0	.022 *	.068 *	.07 *	1.9
2000	5	.33	0	.016 *	.049 *	.049 *	1.9
2005	0	.01	0	.016 *	.047 *	.047 *	1.9
2010	0	0	0	.016 *	.047 *	.047 *	1.9
SAT	9814	616.1	26.5	.778	1.478	1.643	1.9

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD09B SECTION #: 7 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .004 0 PVC .01 1.9

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 3

D0704 .5
 D0705 .25
 SD09A 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	108	8	0	.008 *	.076 *	.078 *	1.9
1990	107	7.95	0	.024 *	.075 *	.077 *	1.9
1995	78	5.75	0	.022 *	.068 *	.07 *	1.9
2000	5	.33	0	.016 *	.049 *	.049 *	1.9
2005	0	.01	0	.016 *	.047 *	.047 *	1.9
2010	0	0	0	.016 *	.047 *	.047 *	1.9
SAT	10487	660.35	26.5	.828	1.562	1.737 *	1.9

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10A SECTION #: 8 BASE MAP: 0

DIAMETER 18 LENGTH 0 SLOPE .0085 INSTALLED 1999 MATERIAL PVC ROUGHNESS .011 CAPACITY 7.419

TRIBUTARY CONTRIBUTION 1 NUMBER OF TRIBUTARIES: 2

SD09B 1
SD10B 1

YEAR	POPS	TRAS	CIAS	ADMFS	PDWFS	PWWFS	CAP
1985	108	8	0	.008 *	.076 *	.078 *	7.419
1990	107	7.95	0	.024 *	.075 *	.077 *	7.419
1995	78	5.75	0	.022 *	.068 *	.07 *	7.419
2000	6	.37	0	.016 *	.049 *	.049 *	7.419
2005	0	.03	0	.016 *	.047 *	.047 *	7.419
2010	0	0	0	.016 *	.047 *	.047 *	7.419
SAT	37089	2397.1	233.5	3.031	5.298	5.965	7.419

SEMSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10B SECTION #: 8 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 18 0 .003 1999 PVC .01 4.848

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 3

D0704 .5
 D0802 1
 SD10C 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFS	CAP
1985	0	0	0	0 *	0 *	0 *	4.848
1990	0	0	0	0 *	0 *	0 *	4.848
1995	0	0	0	0 *	0 *	0 *	4.848
2000	1	.04	0	0 *	0 *	0 *	4.848
2005	0	.02	0	0 *	0 *	0 *	4.848
2010	0	0	0	0 *	0 *	0 *	4.848
SAT	26602	1736.75	207	2.202	3.971	4.463 *	4.848

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10C SECTION #: 8 BASE MAP: 0

DIAMETER 18 LENGTH 0 SLOPE .005 INSTALLED 1999 MATERIAL PVC ROUGHNESS .01 CAPACITY 6.259

TRIBUTARY CONTRIBUTION .75 NUMBER OF TRIBUTARIES: 6

D0705
 D0803 1
 D0804 1
 D1702 1
 D1801 1
 SD10D 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	6.259
1990	0	0	0	0 *	0 *	0 *	6.259
1995	0	0	0	0 *	0 *	0 *	6.259
2000	1	.04	0	0 *	0 *	0 *	6.259
2005	0	.02	0	0 *	0 *	0 *	6.259
2010	0	0	0	0 *	0 *	0 *	6.259
SAT	25849	1687.25	207	2.145	3.884	4.366	6.259

SEMSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10D SECTION #: 17 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 18 0 .0025 1999 PVC .011 4.023

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 3

D1703 1
 D1704 1
 SD10E 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	4.023
1990	0	0	0	0 *	0 *	0 *	4.023
1995	0	0	0	0 *	0 *	0 *	4.023
2000	1	.04	0	0 *	0 *	0 *	4.023
2005	0	.02	0	0 *	0 *	0 *	4.023
2010	0	0	0	0 *	0 *	0 *	4.023
SAT	18529	1270	146	1.535	2.844	3.205	4.023

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10E SECTION #: 17 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 15 0 .0035 1999 PVC .01 3.221

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

GAOLA
 SD10F

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	3.221
1990	0	0	0	0 *	0 *	0 *	3.221
1995	0	0	0	0 *	0 *	0 *	3.221
2000	1	.04	0	0 *	0 *	0 *	3.221
2005	0	.02	0	0 *	0 *	0 *	3.221
2010	0	0	0	0 *	0 *	0 *	3.221
SAT	16013	1105	146	1.346	2.544	2.867	3.221

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10F SECTION #: 18 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .0137 1999 PVC .011 3.195

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D1802 1
 SD10G 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	3.195
1990	0	0	0	0 *	0 *	0 *	3.195
1995	0	0	0	0 *	0 *	0 *	3.195
2000	1	.04	0	0 *	0 *	0 *	3.195
2005	0	.02	0	0 *	0 *	0 *	3.195
2010	0	0	0	0 *	0 *	0 *	3.195
SAT	9951	743	96	.841	1.657	1.882	3.195

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10G SECTION #: 18 BASE MAP: 0

DIAMETER 10 LENGTH 0 SLOPE .0137 INSTALLED 1999 MATERIAL PVC ROUGHNESS .011 CAPACITY 1.965

TRIBUTARY CONTRIBUTION 1 NUMBER OF TRIBUTARIES: 2

DI901 1
SD10H 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	1.965
1990	0	0	0	0 *	0 *	0 *	1.965
1995	0	0	0	0 *	0 *	0 *	1.965
2000	1	.04	0	0 *	0 *	0 *	1.965
2005	0	-.02	0	0 *	0 *	0 *	1.965
2010	0	0	0	0 *	0 *	0 *	1.965
SAT	8385	640	96	.724	1.461	1.661	1.965

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10H SECTION #: 18 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .0133 1999 PVC .011 1.936

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D1803 1
 SD10K 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFWS	CAP
1985	0	0	0	0 *	0 *	0 *	1.936
1990	0	0	0	0 *	0 *	0 *	1.936
1995	0	0	0	0 *	0 *	0 *	1.936
2000	0	0	0	0 *	0 *	0 *	1.936
2005	0	0	0	0 *	0 *	0 *	1.936
2010	0	0	0	0 *	0 *	0 *	1.936
SAT	7005	580	84	.609	1.25	1.419	1.936

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10K SECTION #: 24 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .01 1999 PVC .01 1.847

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

SD10L 1
 SD10M 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWS	CAP
1985	0	0	0	0 *	0 *	0 *	1.847
1990	0	0	0	0 *	0 *	0 *	1.847
1995	0	0	0	0 *	0 *	0 *	1.847
2000	0	0	0	0 *	0 *	0 *	1.847
2005	0	0	0	0 *	0 *	0 *	1.847
2010	0	0	0	0 *	0 *	0 *	1.847
SAT	7005	580	20	.545	1.058	1.214	1.847

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10L SECTION #: 24 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 8 0 .0044 0 PVC .01 .676

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

C2301 .4
 C2401 .4

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFPS	CAP
1985	0	0	0	0 *	0 *	0 *	.676
1990	0	0	0	0 *	0 *	0 *	.676
1995	0	0	0	0 *	0 *	0 *	.676
2000	0	0	0	0 *	0 *	0 *	.676
2005	0	0	0	0 *	0 *	0 *	.676
2010	0	0	0	0 *	0 *	0 *	.676
SAT	2802	232	8	.218	.467	.529	.676

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD10M SECTION #: 24 EASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .0033 0 PVC .01 1.061

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

C2301 .6
 C2401 .6

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	1.061
1990	0	0	0	0 *	0 *	0 *	1.061
1995	0	0	0	0 *	0 *	0 *	1.061
2000	0	0	0	0 *	0 *	0 *	1.061
2005	0	0	0	0 *	0 *	0 *	1.061
2010	0	0	0	0 *	0 *	0 *	1.061
SAT	4203	348	12	.327	.67	.763	1.061

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD502 SECTION #: 4 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 24 0 .01 0 PVC .01 19.059

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1
 SD03E 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWFS	CAP
1985	4479	267	20	.378 *	.931 *	1.004 *	19.059
1990	8595	828.12	56.25	.767 *	1.569 *	1.796 *	19.059
1995	9699	906.35	81.41	.874 *	1.783 *	2.035	19.059
2000	18176	1472.04	167.48	1.597 *	3.067	3.483	19.059
2005	20139	1606.88	194.02	1.77 *	3.379	3.835	19.059
2010	20727	1651.2	211.03	1.832 *	3.499	3.97	19.059
SAT	78693	5628.45	721.52	6.688	11.525	13.057	19.059

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD504 SECTION #: 4 BASE MAP: 0

DIAMETER 24 LENGTH 0 SLOPE .0113 INSTALLED 0 MATERIAL PVC ROUGHNESS .01 CAPACITY 20.305

TRIBUTARY CONTRIBUTION .25 NUMBER OF TRIBUTARIES: 3

D0401 1
SD06C 1
SD505 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWS	CAP
1985	4479	267	20	.378 *	.931 *	1.004 *	20.305
1990	8520	821.09	56.25	.761 *	1.56 *	1.785 *	20.305
1995	9549	892.29	81.41	.863 *	1.764 *	2.013 *	20.305
2000	17952	1450.95	167.48	1.581 *	3.041	3.451	20.305
2005	19840	1578.76	194.02	1.747 *	3.344	3.793	20.305
2010	20353	1616.05	211.03	1.804 *	3.455	3.918	20.305
SAT	77481	5508.45	721.52	6.597	11.393	12.893	20.305

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD505 SECTION #: 4 BASE MAP: 0
 DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 15 0 .005 0 PVC .011 3.5

TRIBUTARY	CONTRIBUTION	NUMBER OF TRIBUTARIES: 2					
		CIAS	ADWFS	PWFWS	PWFWS	CAP	
D0501	1.5	0	0 *	0 *	0 *	3.5	
SD508	1	.01	0 *	0 *	.001 *	3.5	
1985	0	1.22	.015 *	.047 *	.051 *	3.5	
1990	1	31.17	.477	.956	1.062	3.5	
1995	180	39.9	.586	1.154	1.285	3.5	
2000	5943	40	.587	1.155	1.286	3.5	
2005	7286	101	1.532	2.776	3.153 *	3.5	
2010	7295						
SAT	19096						

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SDS08 SECTION #: 4 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 15 0 .003 0 PVC .011 2.711

TRIBUTARY CONTRIBUTION .5 NUMBER OF TRIBUTARIES: 2

DS501 1
 SDS09

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	2.711
1990	1	.04	.01	0 *	0 *	.001 *	2.711
1995	90	5.91	.61	.007 *	.026 *	.028 *	2.711
2000	2372	195.56	15.59	.238 *	.513	.567	2.711
2005	3643	239.69	19.95	.293	.618	.684	2.711
2010	3648	240	20	.293	.619	.684	2.711
SAT	15448	1180.5	81	1.239	2.281	2.594 *	2.711

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SDS09 SECTION #: 4 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 15 0 .003 0 PVC .011 2.711

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D0801 1
 SD510 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	2.711
1990	0	0	0	0 *	0 *	0 *	2.711
1995	0	0	0	0 *	0 *	0 *	2.711
2000	0	0	0	0 *	0 *	0 *	2.711
2005	0	0	0	0 *	0 *	0 *	2.711
2010	0	0	0	0 *	0 *	0 *	2.711
SAT	11801	940.5	61	.946	1.779	2.028	2.711

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD510 SECTION #: 16 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .0044 0 PVC .011 1.811

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D1701 .5
 SD511 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	1.811
1990	0	0	0	0 *	0 *	0 *	1.811
1995	0	0	0	0 *	0 *	0 *	1.811
2000	0	0	0	0 *	0 *	0 *	1.811
2005	0	0	0	0 *	0 *	0 *	1.811
2010	0	0	0	0 *	0 *	0 *	1.811
SAT	5743	510.5	56	.487	1.004	1.146	1.811

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD511 SECTION #: 16 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 12 0 .0044 0 PVC .011 1.811

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 2

D1701 .5
 SD513 1

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	1.811
1990	0	0	0	0 *	0 *	0 *	1.811
1995	0	0	0	0 *	0 *	0 *	1.811
2000	0	0	0	0 *	0 *	0 *	1.811
2005	0	0	0	0 *	0 *	0 *	1.811
2010	0	0	0	0 *	0 *	0 *	1.811
SAT	4374	381	30.5	.359	.748	.85	1.811

SEWSYST.01 PIPELINE INVENTORY & FLOW ROUTING RUN 07-01-99 AT 16:37:07

SEWER NAME: SD513 SECTION #: 20 BASE MAP: 0

DIAMETER LENGTH SLOPE INSTALLED MATERIAL ROUGHNESS CAPACITY
 10 0 .0044 0 PVC .011 1.114

TRIBUTARY CONTRIBUTION NUMBER OF TRIBUTARIES: 1

D2001

YEAR	POPS	TRAS	CIAS	ADWFS	PDWFS	PWWFS	CAP
1985	0	0	0	0 *	0 *	0 *	1.114
1990	0	0	0	0 *	0 *	0 *	1.114
1995	0	0	0	0 *	0 *	0 *	1.114
2000	0	0	0	0 *	0 *	0 *	1.114
2005	0	0	0	0 *	0 *	0 *	1.114
2010	0	0	0	0 *	0 *	0 *	1.114
SAT	3005	251.5	5	-.231	.486	.55	1.114

CITY OF SIERRA VISTA
 PETTY CASH RETURN
 99/07/01

REQ NAME	P/C #	T.O. #	RETURN TIME	REQUESTED AMOUNT	ISSUED AMOUNT	RECEIPT AMOUNT	RETURNED AMOUNT
TAYLOR, J	132275	107220	8:39:19	57.00	57.00	57.00	.00
GIBBS, S	132669	0	8:39:19	15.95	15.95	15.95	.00
MANNING, R	132723	0	8:39:19	12.00	12.00	12.00	.00
MCPHERRAN, G	132724	107294	10:12:02	100.00	100.00	100.00	.00
THORNTON, J	132725	0	11:05:38	9.00	9.00	9.00	.00
GERMAIN, J	131979	0	15:55:24	20.00	20.00	20.00	20.00
STROUD, Y	132577	0	15:55:24	30.00	27.79	27.79	2.21
MARTINEZ, K	132604	0	15:55:24	50.00	50.00	40.43	9.57
WILLIAMS, S	132621	0	15:55:24	25.00	25.00	21.74	3.26
MYERS, N	132666	0	15:55:24	70.00	70.00	42.42	27.58
HELEIG, M	132682	0	15:55:24	60.00	60.00	60.00	.00
FINAL TOTALS				448.95	448.95	386.33	62.62
TOTAL							
COUNT				11			

*** END OF REPORT ***

CITY OF SIERRA VISTA
 PETTY CASH ISSUANCES
 99/07/01

REQ NAME	P/C #	T.O. #	RETURN TIME	REQUESTED AMOUNT	ISSUED AMOUNT	RECEIPT AMOUNT	RETURNED AMOUNT	INTL
HOUSLEY, R	132230	0		100.00	100.00	.00	100.00	
MITCHELL, P	132658	0		30.00	30.00	.00	30.00	
STROUD, Y	132662	0		25.00	25.00	.00	25.00	
CREVISTON, R	132679	0		20.00	20.00	.00	20.00	
TAYLOR, J	132275	107220	8:39:19	57.00	57.00	57.00	.00	SLE
GIBBS, S	132669	0	8:39:19	15.95	15.95	15.95	.00	SLE
MANNING, R	132723	0	8:39:19	12.00	12.00	12.00	.00	SLE
MCHEERAN, G	132724	107294	10:12:02	100.00	100.00	100.00	.00	MTH
THORNTON, J	132725	0	11:05:38	9.00	9.00	9.00	.00	TAS
FINAL TOTALS				368.95	368.95	193.95	175.00	
TOTAL								
COUNT								

*** END OF REPORT ***

GENERAL NOTES:

1. ALL ROADWAY IMPROVMENTS CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION OF THE "UNIFORM STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION" AND THE "UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" AS SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) AND AS ADOPTED BY THE CITY OF SIERRA VISTA DEVELOPMENT CODE.
2. CONTRACTOR SHALL VERIFY ALL DIMENSION AND COORDINATE SITE CONDITIONS WITH THE DRAWINGS PRIOR TO CONSTRUCTION, ANY DISCREPANCIES AND OMISSIONS SHALL BE RESOLVED WITH THE PROJECT OFFICER. DO NOT USE SCALED DIMENSIONS.
3. WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. WHERE NO SPECIFIC DETAIL IS SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
4. ALL DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY INDICATED OR NOT. TYPICAL DETAILS MAY OR MAY NOT BE CUT ON THE DRAWINGS, BUT SHALL APPLY UNLESS NOTED OTHERWISE.
5. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR THE COMPLETION OF THIS PROJECT.
6. UTILITY LOCATIONS, AS SHOWN ON THE PLANS, WERE COMPILED BASED ON THE BEST INFORMATION AVAILABLE PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES WITH THE APPROPRIATE OWNER. TWO WORKING DAYS PRIOR TO EXCAVATION, CONTRACTOR SHALL NOTIFY BLUE STAKE AT 1-800-782-5348.
7. THE CITY OF SIERRA VISTA IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION.
8. CONTRACTOR SHALL INCLUDE IN HIS WEEKLY SCHEDULE ALL SURVEY AND TESTING SERVICES THAT WILL BE REQUIRED FOR THE FOLLOWING WEEK.
9. ALL CONSTRUCTION SHALL BE COMPLETED BY APRIL 17, 1998.
10. ALL REQUIRED AN APPLICABLE TRAFFIC CONTROL SHALL CONFORM TO THE "ARIZONA DEPARTMENT OF TRANSPORTATION 1989 TRAFFIC CONTROL MANUAL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE".
11. TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES UNLESS APPROVED BY THE PROJECT OFFICER.
12. NO FINAL ACCEPTANCE WILL BE ISSUED UNTIL MYLAR REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED AND ACCEPTED BY THE CITY ENGINEER.
13. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREET, AND

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND TAKE WHATEVER MEASURES THAT ARE NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.

14. CALL BLUESTAKE AT 1-800-782-5348 AND ANY NON-PARTICIPATING UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO BEGINNING ANY WORK FOR FIELD LOCATION OF ALL EXISTING UTILITIES WITHING PROPOSED CONSTRUCTION AREA.
15. ALL TRENCHING SHALL BE IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATION 29 CFR PART 1926, SUBPART P, EXCAVATIONS AND TRENCHES.
16. THE CONTRACTOR SHALL GUARANTEE ALL WORK TO THE DEVELOPER AND THE CITY OF SIERRA VISTA AGAINST DEFECTIVE WORKMANSHIP OR MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ITS FINAL ACCEPTANCE BY THE MAYOR AND CITY COUNCIL.
17. PAVEMENT MIX DESIGN MUST BE APPROVED BY DEPARTMENT OF ENGINEERING SERVICES OR BE ON FILE WITH SAID DEPARTMENT.
18. BEDDING AND BACKFILL TO BE DONE AS PER M.A.G. SPECIFICATIONS, SECTION 601.4.4, EXCEPT UNDER PAVEMENT WHERE IT SHALL BE BACKFILLED WITH FULL DEPTH A.B.C., MAXIMUM 18" LIFTS, AND COMPACTED TO 100%.
19. BEFORE ANY WORK IN THE PUBLIC RIGHT-OF-WAY MAY BEGIN, A RIGHT-OF-WAY PERMIT SHALL BE OBTAINED FROM THE CITY OF SIERRA VISTA DEPARTMENT OF ENGINEERING SERVICES.
20. SAWCUT, TACK, AND JOIN FOR ALL STREET CUTS, SPADE CUT NOT ACCEPTABLE.
21. ALL NEW PAVING SHALL BE 2" ASPHALTIC CONCRETE OVER 4" A.B.C. BASE SHALL BE COMPACTED TO 100% MAXIMUM DENSITY. SUBGRADE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 6" AND RECOMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY.
22. PAVEMENT REPLACEMENT SHALL BE AS PER MAG DETAIL 200 TYPE "B" FULL DEPTH A.B.C. WITH 2" A.C. BACKFILL SHALL BE THE MINIMUM REQUIREMENT. A.B.C. SHALL BE COMPACTED TO 100% MAXIMUM DENSITY.
23. ALL VERTICAL SURFACES TO BE FORMED.
24. VERTICAL SURFACE TWO INCHES BELOW UNDISTURBED SOIL MAY BE PLACED AGAINST NEAT CUR IF APPROVED BY THE ENGINEER AND CONCRETE WILL NOT EXTEND MORE THAN 1" BEYOND THEORETICAL FACE.
25. ALL EXPOSED SURFACES SHALL BE STRIPPED GREEN AND TROWEL FINISHED.
26. CONCRETE CURBS SHALL CONFORM TO MAG SECTION 340.
27. CONCRETE TO BE CLASS 'B' AS PER MAG SECTION 725.
28. A BITUMINOUS TACK COAT SHALL BE APPLIED TO THE NEW PAVEMENT PRIOR TO THE REPLACEMENT OF ALL EXTRUDED CURB.
29. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFED OF ANY DIECREPANCIES OR INCONSISTENCIES.

30. DIMENSION SHALL TAKE PRECEDENCE OVER SCALES ON DRAWINGS.
31. ALL EARTH UNDER CONCRETE PAD SHALL BE COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASHTO T-99.
32. EXTERIOR FINISHED GRADES SHALL SLOPE TO DRAIN AWAY FROM BUILDING WALLS.
33. ALL CONCRETE SHALL BE READY MIXED AND ATTAIN 3000 PSI MINIMUM STRENGTH AT 28 DAYS.
34. ALL CONCRETE SHALL USE PORTLAND CEMENT TYPE II WITH 1" MAX. AGGREGATE.
35. THE 2" PVC STUB-OUT PIPE FOR WATER LINE SHALL BE PLACED THRU THE FOOTING OR UNDER THE CONCRETE SLAB PRIOR TO POUR. THE PVC STUB SHALL BE CAPPED.
36. PROVIDE 3/4" CHAMBER AT ALL EXPOSED CORNERS.
37. CONTROL JOINT SPACING IS AS SHOWN ON PLANS AND SHALL BE 1/8" WIDE X 1" DEEP PRE MOLDED PLASTIC INSERTED INTO FRESH CONCRETE UNTIL TOP SURFACE OF STRIP IS FLUSH WITH SLAB.
38. EXPANSION MATERIAL TO BE 1/2" AND PLACED BETWEEN BUILDING FOOTER AND CONCRETE ACCESS APRON.
39. SLAB REINFORCEMENT SHALL BE WIRE MESH 6"X6" 1.4X1.4 WWF.
40. CONCRETE SHALL RECEIVE A HEAVY STEEL TROWEL FINISH TO PROVIDE A SMOOTH LEVEL SURFACE.
41. CONCRETE SHALL BE CURED FOR A PERIOD OF AT LEAST SEVEN DAYS AFTER PLACING AND SHALL BEGIN IMMEDIATELY AFTER COMPLETION OF FINISHING OF THE FRESH CONCRETE.
42. CURING MAY BE DONE WITH A LIQUID MEMBRANE FORMING COMPOUND OR WATER CURING METHOD.
43. CALL BLUESTAKE AT 1-800-782-5348, 48 HOURS PRIOR TO ANY CONSTRUCTION FOR FIELD LOCATION OF UNDERGROUND UTILITIES.
44. CONCRETE WORK SHALL CONFORM TO ALL REQUIRMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318, "BUILDING CODE REQUIRMENTS FOR REINFORCED CONCRETE".
45. CONCRETE SHALL BE READY MIXED CONCRETE IN ACCORDANCE WITH ASTM C94. MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 300 PSI.
46. CEMENTS SHALL CONFORM TO ASTM C150, TYPE II, AGGREGATE PER ASTM C33. MAXIMUM 3" SLUMP FOR SLABS ON GRADE, 4" FOR OTHER CONCRETE.
47. CONCRETE SHALL BE FREE OF CHLORIDE. NO FLY ASH ADDITIVES SHALL BE USED IN CONCRETE WHEN USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE. WHEN USED, FLY ASH SHALL CONFORM TO ASTM C618, CLASS F. FLY ASH SHALL NOT REPLACE MORE THAN 15% OF CEMENT BY WEIGHT.
48. PROVIDE SLEEVES FOR UTILITY OPENINGS IN CONCRETE BEFORE PLACING CONCRETE. DO NOT CUT ANY CONFLICTING REINFORCING.

49. NO CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE INSTALLED WITHOUT APPROVAL BY THE ENGINEER.
50. CONCRETE SHALL NOT BE DROPPED MORE THAN FIVE FEET VERTICALLY WITHOUT USE OF TREMEIS.
51. CONCRETE FOOTINGS AND PADS MAY BE POURED AGAINST NEAT EXCAVATION PROVIDED THE REQUIRED CONCRETE COVERAGE FOR REINFORCING IS MAINTAINED.
52. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDERFLOOR DUCTS, ETC. CAST CLOSURE POUR AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED.
53. ALL CONSTRUCTION SHALL CONFORM TO THE 1991 EDITION OF THE UNIFORM BUILDING CODE.
54. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OR SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. THESE MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SCAFFOLDING, BRACING AND SHORING. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS. THE STRUCTURAL ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION, NOR WILL THE STRUCTURAL ENGINEER BE RESPONSIBLE FOR CONSTRUCTION SITE SAFETY, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO.
55. CONTRACTOR SHALL VERIFY ALL DIMENSION AND COORDINATE SITE CONDITIONS WITH THE DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES AND OMISSIONS SHALL BE RESOLVED WITH THE ARCHITECT. DO NOT USE SCALED DIMENSION.
56. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOFS SO AS NOT TO EXCEED THE DESING LIVE LOAD PER SQUARE FOOT.
57. WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. WHERE NO SPECIFIC DETAIL IS SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
58. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND CIVIL DRAWINGS FOR LOCATION AND DETAILS OF BLOCKOUTS, INSERTS AND OPENING, CURBS, EQUIPMENT BASES AND PADS, SITE WORK ITEMS, ETC. AND DIMENSION NOT SHOWN ON STRUCTURAL DRAWINGS.
59. APPROVED EQUAL OPTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. IF AN OPTION IS CHOSEN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY AND COORDINATION OF ALL DETAILS.

60. ALL DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY INDICATED OR NOT. TYPICALLY DETAILS MAY OR MAY NOT BE CUT ON THE DRAWINGS, BUT SHALL APPLY UNLESS NOTED OTHERWISE.
61. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIAL, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
62. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ARIZONA.
63. PRIOR TO COMMENCING DEMOLITION ACTIVITIES FOR EACH RAMP, THE CONTRACTOR SHALL STAKE/MARK THE LIMITS OF DEMOLITION FOR EACH RAMP AND OBTAIN APPROVAL FROM THE PROJECT OFFICER OR HIS DESIGNATED REPRESENTATIVE.
64. THE CONTRACTOR SHALL OBTAIN APPROVAL TO PROCEED FROM THE PROJECT OFFICER OF HIS DESIGNATED REPRESENTATIVE ONCE THE RAMP AT EACH LOCATION HAS BEEN FORMED PRIOR TO POURING OF ANY CONCRETE BY THE CONTRACTOR.
65. RIGHT-OF-WAY ENCROACHMENTS SHALL BE REMOVED ONLY BY ORDER OF THE CITY OF SIERRA VISTA, UNLESS OTHERWISE NOTED.
66. CONTRACTOR SHALL ADJUST DURING CONSTRUCTION ALL WATER VALVE COVERS, SEWER MANHOLE AND CLEAN OUT COVERS TO FIT FINISHED GRADES AND SLOPES.
67. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR THE COMPLETION OF THIS PROJECT.
68. ALL CONCRETE TO BE CLASS "B" AS PER SECTION 725 OF THE MAG SPECIFICATIONS.
69. ALL SUBGRADE PREPARATION AS PER SECTION 301.
70. IN THE EVENT THAT A SPANDRAL EXISTS AND IS MONOLITHIC WITH THE CURB AND GUTTER, A SAWCUT OF THE SPANDRAL WILL BE NECESSARY AND SHALL BE DONE IN SUCH MANNER AS TO MINIMIZE THE REMOVAL OF EXISTING SPANDRAL AND GUTTER.
71. WHERE THERE IS EXISTING INTEGRAL CONCRETE CURB AND GUTTER, BOTH CURB AND GUTTER MUST BE REMOVED. IF THE GUTTER IS IN GOOD CONDITION, THE GUTTER MAY BE SAWCUT AND THE OUTSIDE PORTION LEFT IN PLACE WITH THE APPROVAL OF THE CITY ENGINEER. EACH RAMP SHALL BE DEALT WITH ON AN INDIVIDUAL BASIS.
72. BOTTOM OF RAMP SHALL BE PLACED AT THE ELEVATION OF THE EXISTING GUTTER LINE. SLOPE UP RAMP FROM FACE OF CURB.
73. THE ENTIRE AREA WITHIN THE ACCESS RAMP, INCLUDING TOP OF CURB, SHALL BE A COARSE BROOM FINISH.

74. RAMP SLOPE SHALL BE A MAXIMUM OF 12:1, AND A MINIMUM OF 8:1 UNLESS OTHERWISE NOTED ON DETAIL. IF THIS CRITERIA CANNOT BE MET, FIELD CHANGES WILL HAVE TO BE MADE WITH THE APPROVAL OF THE CITY ENGINEER.
75. ALL NEW SIDEWALK AS PER DETAIL 230, RECONSTRUCT EXISTING SIDEWALK TO MATCH NEW RAMPS WHERE INDICATED ON THE PLANS.
76. ALL RETURNS TO HAVE 25-FOOT RADII TO BACK OF CURB UNLESS OTHERWISE NOTED ON THE PLANS. ALL RADII TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. ALL RADII ARE TO BE RECONSTRUCTED TO THEIR ORIGINAL HORIZONTAL LOCATION.
77. VALLEY GUTTERS, SPANDRELS, CURB AND GUTTER TO BE CONSTRUCTED PRIOR TO PLACEMENT OF NEW ASPHALT.
78. WHEN TRANSITIONING FROM FOUR-INCH CURB TO SIX-INCH VERTICAL CURB, TRANSITION OF THE VERTICAL TWO INCHES MUST OCCUR IN THE VERTICAL CURB SECTION.
79. CONTRACTOR TO NOTIFY PROPERTY OWNERS AFFECTED BY CONSTRUCTION SEVEN DAYS IN ADVANCE BY WRITTEN NOTICE.
80. THE CONTRACTOR SHALL COORDINATE ALL SURVEYING TO ESTABLISH THE GRADES PROPOSED BY THE CONTRACT DOCUMENTS AND SPECIFICATIONS. GRADES SHALL BE ESTABLISHED AT INTERVALS NO LESS THAN 25 FEET OR AS INDICATED ON THE PLANS. AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE CITY OF SIERRA VISTA UPON THE COMPLETION OF THE PROJECT.
81. LIMITS OF SAWCUTTING, REMOVAL AND REPLACEMENT OF SIDEWALK AS SHOWN ON THE PLANS IS A MINIMUM. SAWCUTTING, REMOVAL AND REPLACEMENT OF SIDEWALK TO OCCUR AT THE CLOSEST JOINT OF SCORE MARK AT/OR OUTSIDE THE MINIMUM LIMITS SHOWN ON THE PLANS OR AS DESIGNATED BY THE PROJECT ENGINEER.
82. CROSS-SECTION SHOWN ON PLANS ARE AT 25 FOOT INTERVALS.
83. IN THE EVENT THAT A SPANDRAL EXISTS AND IS MONOLITHIC WITH THE CURB AND GUTTER, A SAWCUT OF THE SPANDRAL WILL BE NECESSARY AND SHALL BE ONE IN SUCH MANNER AS TO MINIMIZE THE REMOVAL OF EXISTING SPANDRAL AND GUTTER.
84. WHERE THERE IS EXISTING INTEGRAL CONCRETE CURB AND GUTTER, BOTH CURB AND GUTTER MUST BE REMOVED. IF THE GUTTER IS IN GOOD CONDITION, THE GUTTER MAY BE SAWCUT AND THE OUTSIDE PORTION LEFT IN PLACE WITH THE APPROVAL OF THE PROJECT OFFICER. EACH RAMP SHALL BE DEALT WITH ON AN INDIVIDUAL BASIS.
85. CONSTRUCT OR STAMP 1/4 " AT 1" O.C. FULL FACE OF RAMP.
86. CONTROL ELEVATIONS SHOWN ARE IN RELATION TO THE GUTTER AND ARE LOCATED RADIALLY. GUTTER ELEVATION = 0.
87. WHEN CURB HEIGHTS OF 7" ARE SHOWN ON PLANS, USE DIMENSIONS SHOWN IN ().
88. ALL SIDEWALKS ARE 5' IN WIDTH UNLESS NOTED OTHERWISE.

89. INSTALL NEW SIDEWALK RAMP IN CENTER OF CURB RETURN.
90. THE CITY OF SIERRA VISTA RESERVES THE RIGHT TO ADD OR DELETE CURB RETURN RAMPS TO BE RECONSTRUCTED AND TO ESTABLISH THEIR PRIORITY.
91. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, LANDINGS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
92. BEFORE PLACEMENT OF RAMPS, THE EXISTING ASPHALT OR CONCRETE SHALL BE CLEANED OF ALL LOOSE OR OBJECTIONAL MATERIAL.
93. PRIOR TO PLACING CONCRETE THE EXISTING ASPHALT SHALL RECEIVE A TACK COAT OF EMULSIFIED ASPHALT CUT BACK WITH 50% WATER.
94. CONSTRUCTION SHALL CONFORM TO THE MARICOPA ASSOCIATION OF GOVERNMENT'S UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS REVISED AT THE DATE OF ADVERTISEMENT FOR THIS PROJECT AND AS MODIFIED BY THE CONTRACT DOCUMENTS.
95. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES AND OMISSIONS SHALL BE RESOLVED WITH THE PROJECT OFFICER.
96. THE CITY OF SIERRA VISTA IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION.
97. CONTRACTOR SHALL INCLUDE IN HIS WEEKLY SCHEDULE ALL TESTING SERVICES THAT WILL BE REQUIRED FOR THE FOLLOWING WEEK.
98. ALL WORK SHALL BE INSPECTED BEFORE THE NEXT STAGE OF WORK MAY BEGIN.
99. ALL CONSTRUCTION SHALL BE COMPLETED WITHIN 30 CALENDAR DAYS.
100. FOUNDATION PREPARATION SHALL BE PER MAG SECTION 206.
101. ALL VERTICAL SURFACES TO BE FORMED.
102. CONCRETE PAD FOUNDATION BELOW GRADE MAY BE PLACED AGAINST NEAT EXCAVATIONS, PROVIDED PLAN DIMENSIONS ARE ADHERED TO.
103. ALL CONCRETE SHALL BE READY MIXED CONFORMING WITH MAG SECTION 725 FOR CLASS "A" AND ATTAIN A MIN 3000 PSI STRENGTH AT 28 DAYS.
104. THE ENTIRE TOP OF FINISHED PAD SHALL RECEIVE A LIGHT BROOM FINISH.
105. MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE 3"
106. ALL REINFORCING BARS, ANCHOR BOLTS AND CONCRETE INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.
107. PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS.
108. ALL CONCRETE SHALL USE PORTLAND CEMENT TYPE II (ONLY) WITH 1" MAX AGGREGATE AND HAVE A MAX. SLUMP AS SPECIFIED BY THE APPROVED MIX DESIGN.

109. ALL CONCRETE ADMIXTURES SHALL BE MIXED INTO THE CONCRETE AT THE BATCH PLANT.
110. CONTRACTOR SHALL VERIFY ALL DIMENSION AND COORDINATE SITE CONDITIONS WITH THE DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES AND OMISSIONS SHALL BE RESOLVED WITH THE PROJECT OFFICER. DO NOT USE SCALED DIMENSIONS.
111. WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. WHERE NO SPECIFIC DETAILS SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
112. ALL DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY INDICATED OR NOT. TYPICAL DETAILS MAY OR MAY NOT BE CUT ON THE DRAWINGS, BUT SHALL APPLY UNLESS NOTED OTHERWISE.
113. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR THE COMPLETION OF THIS PROJECT.
114. UTILITY LOCATIONS, AS SHOWN ON THE PLANS, WERE COMPILED BASED ON THE BEST INFORMATION AVAILABLE. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES WITH THE APPROPRIATE OWNER. TWO WORKING DAYS PRIOR TO EXCAVATION, CONTRACTOR SHALL NOTIFY BLUE STAKE AT 1-800-782-5348.
115. THE CITY OF SIERRA VISTA IS NOT RESPONSIBLE FOR LIABILITY ACCURED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION.
116. CONTRACTOR SHALL INCLUDE IN HIS WEEKLY SCHEDULE ALL SURVEY AND TESTING SERVICES THAT WILL BE REQUIRED FOR THE FOLLOWING WEEK.
117. ALL CONSTRUCTION SHALL BE COMPLETED BY NOVEMBER 11, 1995.
118. ALL REQUIRED AND APPLICABLE TRAFFIC CONTROL SHALL CONFORM TO THE "ARIZONA DEPARTMENT OF TRANSPORTATION 1989 TRAFFIC CONTROL MANUAL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE".
119. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES UNLESS APPROVED BY THE PROJECT OFFICER.
120. CONTRACTOR IS RESPONSIBLE FOR CONTAINING ALL PERMITS NECESSARY FOR THE COMPLETION OF THE PROJECT.
121. NO FINAL ACCEPTANCE OF OFF SITE IMPROVEMENTS SHALL BE ISSUED UNTIL MYLAR REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED AND ACCEPTED BY THE CITY ENGINEER.
122. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREET, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TAKE WHATEVER MEASURES NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.

123. AN APPROVED SET OF PLANS SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES WORK IS IN PROGRESS. DEVIATION FROM THE PLANS WILL NOT BE ALLOWED WITHOUT AN APPROVED PLAN REVISION.
124. THE PLACING OF MATERIAL ON PRIVATE PROPERTY OF ANOTHER REQUIRES WRITTEN AUTHORIZATION.
125. THE DIRECTOR OF DEVELOPMENT SERVICES SHALL BE NOTIFIED THREE (3) DAYS PRIOR TO BEGGING ANY WORK.
126. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A PERSON WHO IS AUTHORIZED AND CERTIFIED UNDER TITLE 32-142 OF THE ARIZONA REVISED STATUES TO PERFORM MATERIALS TESTING AND CONDUCT THE TESTING OF ALL MATERIALS USED IN THE CONSTRUCTION OF PUBLIC WORKS IMPROVEMENTS.
127. THE RESULTS OF ALL TESTS SHALL BE PROVIDED TO THE DIRECTOR OF DEVELOPMENT SERVICES PRIOR TO THE FINAL INSPECTIONS AND DURING THE CONSTRUCTION PHASE OF ALL PUBLIC WORKS IMPROVEMENTS.
128. THE CONTRACTOR SHALL GUARANTEE ALL WORK TO THE DEVELOPER AND THE CITY OF SIERRA VISTA AGAINST DEFECTIVE WORKMANSHIP OR MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ITS FINAL ACCEPTANCE BY THE MAYOR AND CITY COUNCIL.
129. PAVEMENT MIX DESIGN MUST BE APPROVED BY DEPARTMENT OF PUBLIC WORKS OR BE ON FILE WITH SAID DEPARTMENT.
130. BEDDING AND BACKFILL TO BE DONE AS PER M.A.G. SPECIFICATIONS, SECTION 601.4.4, EXCEPT UNDER PAVEMENT WITHIN PUBLIC RIGHT-OF-WAY WHERE IT SHALL BE BACKFILLED WITH FULL DEPTH A.B.C., MAXIMUM 18" LIFTS, AND COMPACTED TO 100%.
131. INSTALL SURVEY MONUMENTS PER M.A.G. STANDARD DETAIL 120-1.
132. WHERE SEWER MANHOLES ARE AT STREET INTERSECTIONS, 4 PK NAILS SHALL BE PLACED AROUND MANHOLE TO CREATE AN 'X' OUT OF THE MANHOLE IN LIEU OF A SURVEY MONUMENT.
133. DO NOT USE SCALED DIMENSIONS.
134. ALL DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY INDICATED OR NOT.
135. THE CITY OF SIERRA VISTA IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. THE CITY WIL LNOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION.
136. CONTRACTOR SHALL INCLUDE IN HIS WEEKLY SCHEDULE ALL TESTING SERVICES THAT WILL BE REQUIRED FOR THE FOLLOWING WEEK.
137. ALL WORK SHALL BE INSPECTED BEFORE THE NEXT STATE OF WORK MAY BEGIN.
138. ALL CONSTRUCTION SHALL BE COMPLETED WITHIN 30 CALENDAR DAYS
139. FOUNDATION PREPARATION SHALL BE PER MAG SECTION 206.
140. ALL VERTICAL SURFACES TO BE FORMED.

141. CONCRETE PAD FOUNDATION BELOW GRADE MAY BE PLACED AGAINST NEAT EXCAVATIONS, PROVIDED PLAN DIMENSIONS ARE ADHERED TO.
142. ALL CONCRETE SHALL BE READY MIXED CONFORMING WITH MAG SECTION 725 FOR CLASS "A" AND ATTAIN A MIN 3000 PSI STRENGTH AT 28 DAYS.
143. THE ENTIRE TOP OF FINISHED PAD SHALL RECEIVE A LIGHT BROOM FINISH.
144. MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE 3".
145. ALL REINFORCING BARS, ANCHOR BOLTS AND CONCRETE INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.
146. PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS.
147. ALL CONCRETE SHALL USE PORTLAND CEMENT TYPE II (ONLY) WITH 1" MAX. AGGREGATE AND HAVE A MAX. SLUMP AS SPECIFIED BY THE APPROVED MIX DESIGN.
148. ALL CONCRETE ADMIXTURES SHALL BE MIXED INTO THE CONCRETE AT THE BATCH PLANT.

149. ALL EXISTING TRAFFIC MARKINGS TO BE REMOVED/OBLITERATED BY SANDBLASTING OR GRINDING ONLY. NO PAINTING OVER EXISTING MARKINGS WITH BLACK PAINT OR ASPHALT ALLOWED.

150. ALL PULLBOXES TO HAVE A 4 INCH COLLAR OF CONCRETE.