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September 29, 2017

VIA PERSONAL COURIER

Ms. Jacqueline Trotta
Enforcement Analyst – Water Division
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

RECEIVED
SEP 29 2017
IL 3:51

RE: City of Bryant
CAO LIS 16-057: AR0034002, AFIN 63-0005
Progress Report and SECAP Delivery

Dear Ms. Trotta:

The following components are a brief synopsis of progress regarding the CAO.

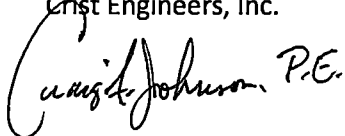
Item No.	Begin	End	Description
1	9/22/2016	Ongoing	Engagement of Crist Engineers, Inc. to develop Collection System Evaluation and Capacity Assurance Plan
2	9/26/16	1/5/17	Temporary flow meter installation and data collection of seven flow meters for 102 days of continuous flow monitoring throughout the collection system
3	9/26/16	1/5/17	Installation and data acquisition of four rainfall gauges to obtain continuous rainfall interval intensity
4	10/15/17	5/1/17	Development of a comprehensive wastewater collection system model that reasonably predicts the performance of the existing sanitary sewer system and provides a platform for analyzing existing system performance and anticipated capital improvements to project additional capacity
5	5/1/17	6/30/17	Analyzed to existing collection system and force main system capacity
6	7/1/17	9/1/17	Evaluated capital improvement options to increase overall system capacity
7	9/2/17	9/29/17	Developed a Sewer Evaluation Capacity Assurance Plan (SECAP) the identified projects to increase system capacity
8	9/29/17	N/A	Delivery of SECAP to ADEQ

Ms. Jacqueline Trotta
Enforcement Analyst – Water Division
NPDES Permit No.: AR0034002, AFIN 63-005
CAO LIS Progress Report and SECAP Delivery
Page 2 of 2

The capital improvement plan is identified in Chapter 4 of the SECAP delivery attached. Over the next two months we will be developing a schedule of improvements with the City of Bryant and submit to you for your review and approval on or before December 30, 2017.

Should you have any questions regarding this correspondence plan please don't hesitate to contact me.

Sincerely,
Crist Engineers, Inc.

A handwritten signature in black ink that reads "Craig A. Johnson P.E." with a stylized flourish at the beginning.

Craig A. Johnson, P.E.
Associate

Enclosures: Sewer Evaluation and Capacity Assurance Plan (SECAP) Report

Cc: Mark Grimmett, City of Bryant

September 27, 2016

Mr. Craig A. Johnson, P.E.
Associate Engineer
Crist Engineers, Inc.
205 Executive Court
Little Rock, AR 72205

Subject: City of Bryant – Sewer Evaluation and Capacity Assurance Plan (SECAP) Report

Dear Mr. Johnson:

RJN is pleased to present the *City of Bryant- SECAP* final report to Crist Engineers, Inc. This document provides results from the hydraulic modeling of the City of Bryant sanitary system. Discussed are the steps taken to construct, calibrate and analyze the sanitary sewer system in the City of Bryant under existing conditions and present a recommended capital improvement plan to address capacity issues within the city.

As always, it is a pleasure to work with you and your staff on this project. Feel free to contact our office should you have questions or concerns regarding this report.

Respectfully Submitted,

RJN GROUP, INC.



Daniel Jackson, P.E.
Vice President

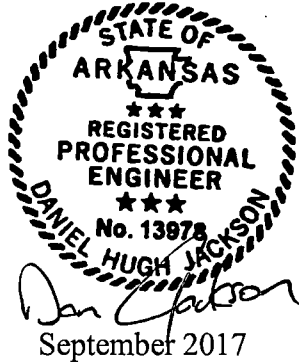


Raj Tamrakar, P.E.
Project Manager

DHJ/RT/18-3034-00
Enclosure

Sewer Evaluation and Capacity Assurance Plan (SECAP)
Final Report

City of Bryant



I hereby certify that this report was prepared under my direct supervision and that I am a duly registered Professional Engineer under the laws of the State of Arkansas.

Dan Jackson
Date: 9/27/17 Registration No.: 13978



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EXECUTIVE SUMMARY

In April 2016 RJN Group, INC. (RJN) was engaged by Crist Engineers to undertake a citywide evaluation of the City of Bryant sanitary sewerage system. The project was conducted in three phases:

- Phase I
 - Flow Monitoring
 - Rainfall Data Collection
- Phase II
 - Hydraulic Modeling
 - System Analysis
- Phase II
 - Capacity Plan Development

Attained within this report are the steps which were taken in building the hydraulic model and developing this Capacity Plan Development of the citywide sanitary sewerage system. The recommended capital improvement plan to address the capacity issues identified by the hydraulic model is included.

Hydraulic Model

A series of steps were completed during the development of the hydraulic model. These included flow monitoring, the model build, and calibration for both dry and wet-weather flow data. InfoWorks ICM software by Innovyze, Inc. was selected as the modeling software.

Flow Monitoring

The flow monitoring consisted of installing seven flow meters and four rain gauges for 102 days from September 26, 2016, to January 5, 2017. The seven flow meter locations were identical to locations from a previous study conducted by the City. Dry weather flows and a projected volume of inflow and infiltration (I/I) were calculated from the flow data. A meter basin is considered to have an excessive amount of I/I when the amount of I/I exceeds 10,000 gals/day/1,000lf. Two of the seven flow meter basin exceeded that threshold. Table ES.1 outlines the amount of I/I entering each basin.

**Table ES.1
Volumetric I/I Rates**

Meter Basin	Design Storm 48 Hr. I/I Volume (MG)	I/I (gal/day/1000 lf) Design Storm
01	0.249	6,578
02	0.063	1,127
03	0.408	11,473
04	0.590	4,558
05	0.651	7,433
06	0.239	11,688
07	0.179	8,266
Total	2.379	7,303 (average)

Model Build

The City of Bryant's existing GIS was utilized as the backbone of the hydraulic model. Sub-centimeter GPS survey was conducted by Crist Engineers on manholes where "GPS_height" information was missing in the city's existing GIS. Sub-catchments were delineated to load flow accurately at a detailed level across the city limit. 2010 US census data was used to project current population estimates and also loaded into the model.

Flow profiles were developed for residential, commercial, and industrial areas. These profiles were then assigned to sub-catchments based upon land use.

Dry and Wet-Weather Calibration

Calibrating the hydraulic model is vital for the model to accurately represent the behavior of the sanitary sewer system during both dry and wet weather conditions. Calibration is a process through which model variables and coefficients are adjusted through multiple iterations until flow, depth, and velocity matches actual flow meter data recorded. The model is calibrated to recreate sewer performance in both dry and wet-weather conditions.

The City of Bryant model was calibrated to observed dry-weather data from October 3, 2016 to October 10, 2016. Wet-weather calibration was performed to two unique storm events observed during the monitoring period. These storms occurred on November 28, 2016, and December 24, 2016.

Capacity Analysis and Improvements

The model was evaluated by applying a design storm to the existing conditions of the City's sanitary sewerage system. The selected design storm is a 2-year/6-hour event. The characteristics of this event are 3.1 inches of rainfall over a 6-hour period, with a peak 60-minute intensity of 1.45 inches/hour.

Table ES.2 details the model predicted volume of overflow, and number of locations of overflows.

Table ES.2 Summary of Model Predicted SSO	
Total Volume of Overflow (MG)	Number of SSO Manholes
0.0808	3

Capacity improvement plans have been developed considering the system as it currently exists. The capacity improvement plans are detailed in Chapter 4 – Capital Improvement Plan. The total estimated construction cost of the recommended plan is approximately \$1.75 million dollars.

CHAPTER 1 – INTRODUCTION

In April 2016 RJN Group, INC. (RJN) was engaged by Crist Engineers to undertake a citywide evaluation of the City of Bryant sanitary sewerage system. The project was conducted in three phases:

- Phase I – Flow Monitoring and Rainfall Data Collection
- Phase II – Hydraulic Modeling and System Analysis
- Phase III – Capacity Plan Development

This report documents the works undertaken, provides results from the existing system performance analysis as well as detailing the augmentation works required to resolve the existing hydraulic deficiencies in the sewerage system.

Scope

The scope of the project and a brief description of each task undertaken follows:

Phase I. Flow Monitoring and Rainfall Data Collection

Site Selection/Verification

RJN carried out all the necessary planning tasks associated with the temporary flow monitoring requirements for the study. RJN reviewed the available electronic mapping, GIS data and operational information for the collection system together with an information of a previous temporary flow meter study conducted by the City.

RJN prepared a flow metering plan consisting of seven temporary flow monitors together with site installation sheets describing:

- the manholes selected for flow monitoring,
- equipment installation requirements (i.e. manhole access, traffic control, notification to landowners, assistance from the city staff, etc.),
- equipment maintenance requirements, data recording frequency, and termination and removal of the equipment following completion of the monitoring period,

RJN inspected the proposed temporary flow meter locations as necessary to determine their suitability for installation of the necessary equipment.

Temporary Flow Meter Installation

RJN installed seven (7) temporary flow meters for the period September 26, 2016 to January 5, 2017 comprising a total of 102 days of monitoring.

RJN maintained the temporary flow meters over the monitoring period with maintenance carried

out on a regular basis. Maintenance tasks undertaken included:

- calibration of the recording equipment,
- onsite analysis of the data to ensure proper meter function,
- cleaning of the sensors, and replacement of any defective equipment.

The data recording interval set for the temporary meters was five (5) minutes.

Rainfall Monitoring

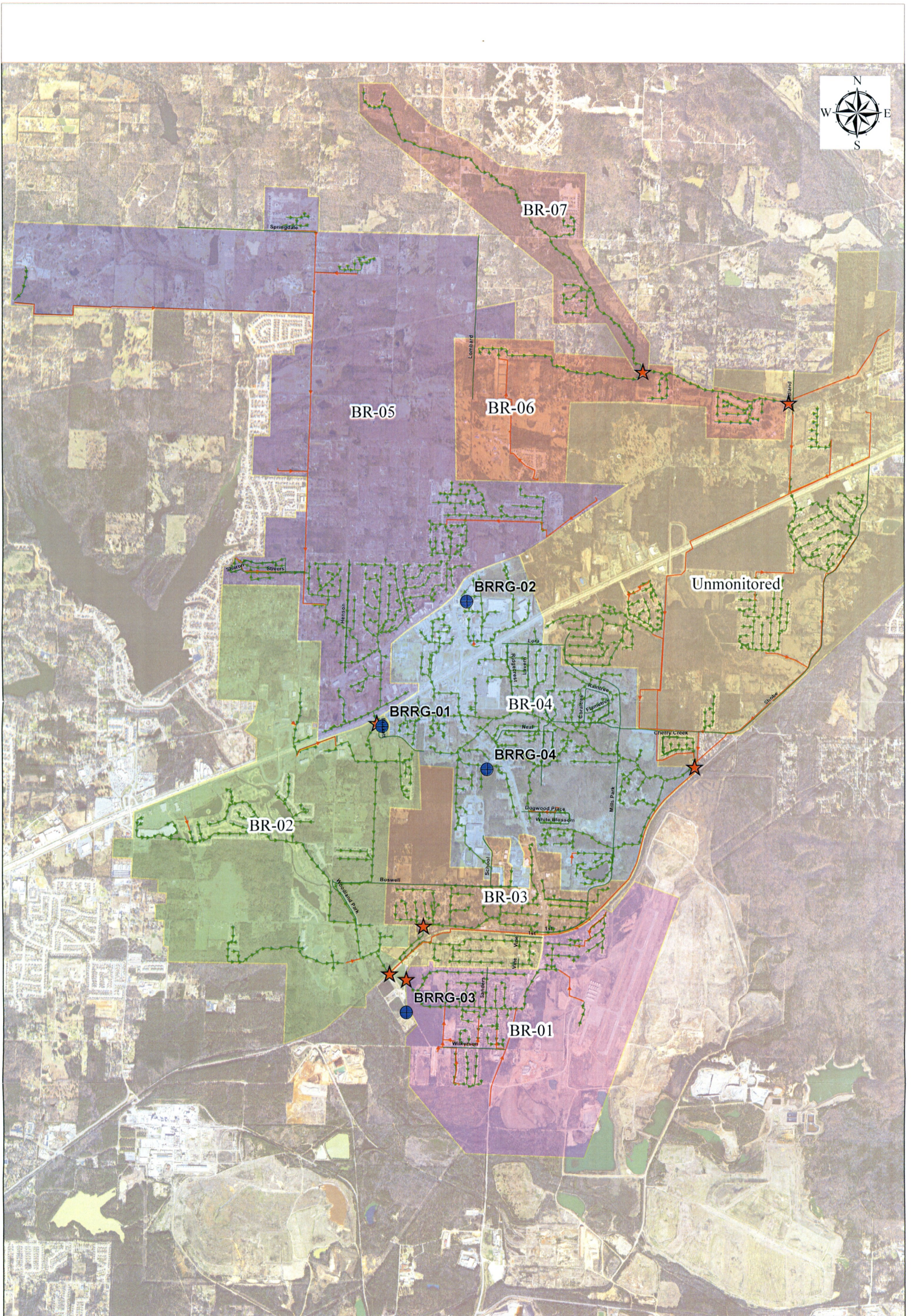
RJN selected sites for and installed four (4) rain gauges to obtain rainfall data during the monitoring period. The rain gauge installed had a 0.01inch accuracy and provided a continuous record of rainfall conditions during the monitoring period. Each rain gauge was regularly inspected to confirm operation and to clear away any airborne debris that may have accumulated in the gauge.

Figure 1.1 outlines the meter and rain gauge locations, along with metered basin boundaries. A basin flow diagram indicating the direction of flow from one basin to another can be seen in Appendix A. Site sheets for each monitoring location, and rain gauge location can be found in Appendix B and Appendix C respectively.

Average Daily Dry-Weather Flow

Flow data Collected during dry-weather/low groundwater periods were analyzed to determine the average daily dry-weather flow for each of the seven (7) basins. The dry-weather period selected for this analysis was from October 3, 2016, to October 10, 2016. The analysis determined that the average daily dry-weather flow during the monitoring period was approximately 1.173 MGD. It should be noted that the portion of the north-east side of the city was unmonitored, as seen in Figure 1.1, and hence the flow from this area was not accounted for in the calculation of average dry-weather flow. Table 1.1 outlines dry-weather flow for each monitored basin.

Table 1.1 Summary of Average Daily Dry –Weather Flow		
Meter Basin	Cumulative Average Daily Dry- Weather Flow (mgd)	Basin Average Daily Dry-Weather Flow (mgd)
01	0.126	0.126
02	0.522	0.101
03	0.053	0.053
04	0.338	0.338
05	0.421	0.421
06	0.134	0.097
07	0.037	0.037
Total		1.173



- Rain Gauge Site
- ★ Flow Meter Site
- ForceMain
- Gravity Sewer



Figure 1.1
City of Bryant
Flow Meter Locations
Basin Boundaries

Average Daily Dry-Weather Flow Peaking Factor

Wastewater flow during dry-weather periods will vary during the day in response to water consumption. By examining the diurnal curves for each monitored basin, a peaking factor was determined. The peaking factor is the ratio of the peak hourly flow rate and the average daily flow. The average peaking factor was 1.99. Peaking factor for the monitoring period varied from a 1.33 to 2.60 and are provided for each basin in Table 1.2.

Table 1.2			
Dry -Weather Flow Peaking Factors			
Meter Basin	Cumulative Average Daily Dry- Weather Flow (mgd)	Peak Dry Hourly Flow Rate (mgd)	Dry- Weather Peaking Factor (mgd)
01	0.126	0.168	1.33
02	0.522	0.888	1.70
03	0.053	0.12	2.26
04	0.338	0.552	1.63
05	0.421	0.816	1.94
06	0.134	0.336	2.51
07	0.037	0.096	2.60
			1.99 (average)

Volumetric Inflow/Infiltration Analysis

The infoWorks Hydraulic model developed during this study is also a model that allows for the projection of the volume of inflow/infiltration (I/I) for individual basins. This method of I/I projection is generally more accurate since it is not impacted by the time of concentration or time lag of flow relative to one basin to another. Therefore, the model generated I/I volumes were used to project inflow rates to a design storm event.

A summary of the projected volumetric rates for the design storm a 2 Yr. 6 Hr. rain event is provided in Table 1.3.

Table 1.3				
Volumetric I/I Rates				
Meter Basin	Basin Size (lf)	Design Storm 48 Hr. I/I Volume (MG)	I/I (gal/day/1000 lf) Design Storm	Ranking
01	37,854	0.249	6,578	5
02	55,915	0.063	1,127	7
03	35,561	0.408	11,473	2
04	129,430	0.590	4,558	6
05	87,579	0.651	7,433	4
06	20,448	0.239	11,688	1
07	21,654	0.179	8,266	3
Total		2.379	7,303 (average)	

Phase II. Hydraulic Modeling

Model Development

RJN utilized the City's GIS database, as-built information and GPS survey data to construct the model using the InfoWorks model software. An all pipe all property model of the network was created. Initially, only major pumping stations were considered for inclusion in the model, however, due to the system complexity and extent of common manifold force mains it was necessary to include all lift stations in the model.

Model Calibration

The model was calibrated for existing wet and dry conditions using the flow data collected from the flow monitoring task. Dry weather flows were developed from Census data and water billing records. Wet weather flows were generated in the model using the recorded rainfall and adjusting the catchment parameters until the model flows suitably matched the observed surcharge depth and flows at the flow meter locations.

Phase III. Capacity Plan Development

RJN consulted with Crist Engineers and the City to define the sewer design criteria for minimum slopes, minimum velocity, a definition of sewer overloading, and the percentage of overload allowed before capacity improvements needed to be considered.

The calibrated model was used as the platform for the capacity analysis. In addition to reviewing DWF performance, a 2 Year 6 Hour design storm was simulated on the model to assess WWF capacity. Deficiencies in the system were identified, and augmentation strategies developed to resolve the problems.

The following sections of this report provide further detail of each section of the program of works.

CHAPTER 2 – MODEL DEVELOPMENT

A robust, comprehensive wastewater collection system master plan requires the development of a computer based hydraulic model that:

- A. reasonably reflects the performance of the existing sanitary sewer system;
- B. provides a flexible platform for analyzing existing system performance and
- C. enables testing and optimizing of augmentation options.

This Chapter provides a summary of the tasks involved in the hydraulic model development and calibration.

Model Description

The InfoWorks ICM software by Innovyze, Inc. was used as the platform for the model analysis. InfoWorks ICM is a fully dynamic hydraulic model capable of analyzing both gravity and pressurized components of complex sewer systems.

The objectives of this task were to:

- Create a comprehensive calibrated model of the Bryant sewerage system that contained all sewer mains, lift stations, and rising mains;
- Use the calibrated model to evaluate the existing system capacity to transport dry weather flows;
- Simulate a design storm on the calibrated system model to identify areas with insufficient capacity and overflows;
- Develop a staged system implementation strategy to eliminate predicted overflows and lower surcharge levels;

System Model

Gravity Pipe Network

The details contained in the City's GIS sewer and manhole tables were uploaded into Infoworks ICM to create the base pipe and manhole network in the model. While the connectivity and diameter of the network were reasonably complete in most gravity portions of the system, forcemain details were less complete with some information lacking in detail.

Elevations were initially assigned to manhole rims and invert levels to pipes based on the "GPS_height" elevation and "Rimtoinvert" depth to rim details contained in the City's "Sewer_point_features" table. The provided 2ft contours were also imported into InfoWorks ICM to create a 3-D digital terrain model (DTM) over the system. The DTM was used to interpolate a rim elevation for all manholes and invert levels were estimated using the depth to rim values in the GIS. Initial profile reviews demonstrated irregularities in the elevations calculated with the provided GPS elevations. The following Figures 2.1 to 2.3 illustrate a representative profile from MH 11280 down to MH 11120.



Figure 2.1 – Representative Profile MH 11280 to MH1120

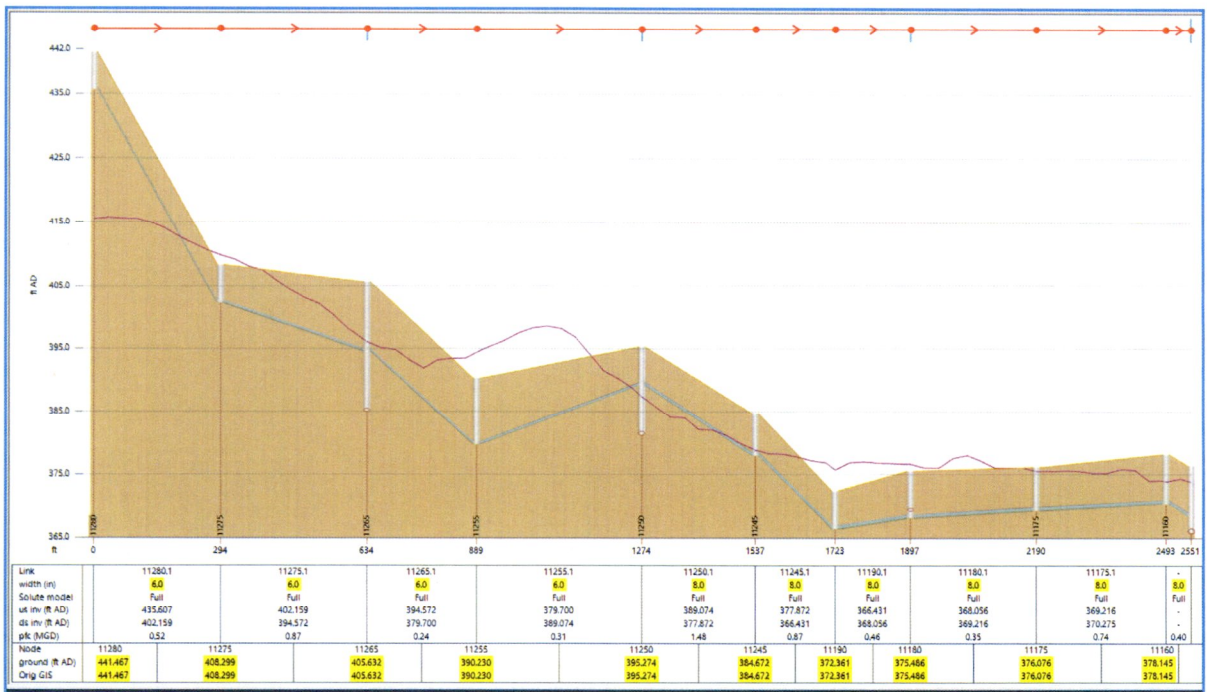


Figure 2.2 - Profile MH 11280 to MH1120 using GIS Rim Elevations and GIS Depths

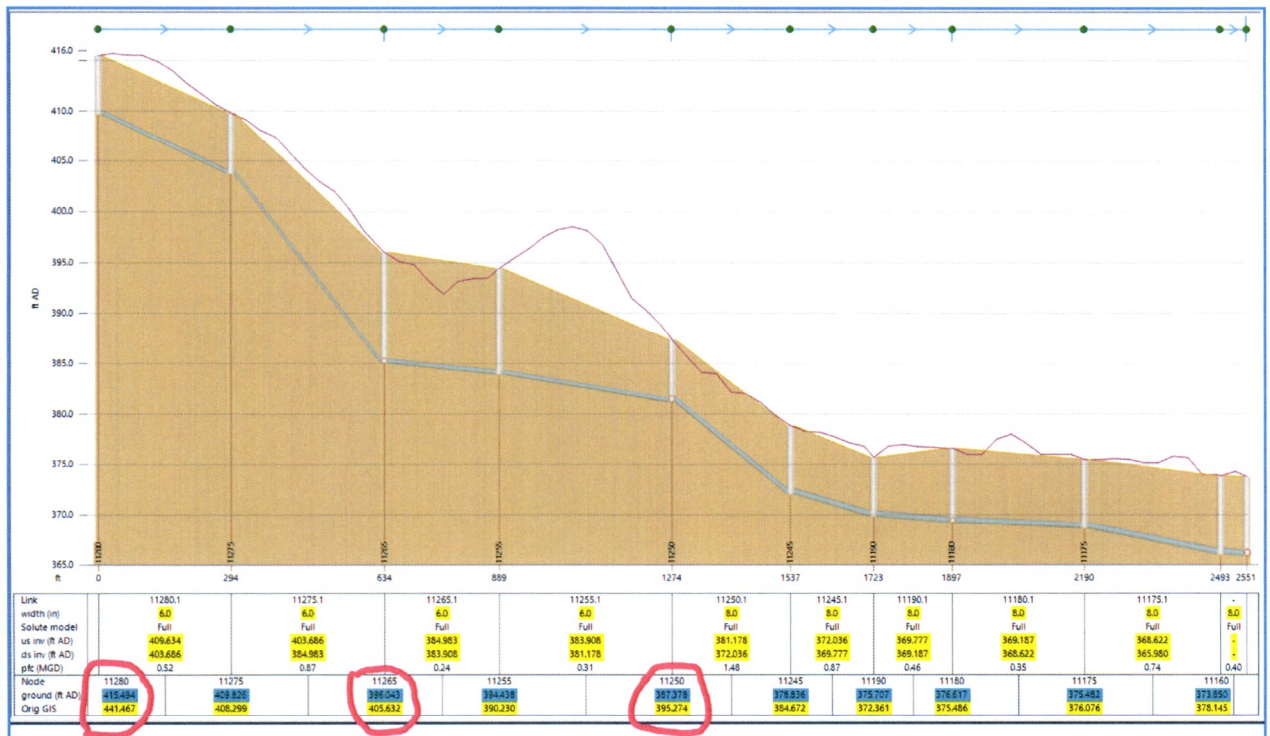


Figure 2.3 - Profile MH 11280 to MH1120 using DTM Rim Elevations and GIS Depths

Comparing Figure 2.2 and Figure 2.3 it is evident that there is some error with the GPS elevations in the GIS table provided. However, the measured depths combined with the DTM calculated rim levels resulted in logical downward flowing gravity sewer networks.

All gravity sewer profiles were reviewed and adjustments or estimations made where data was missing or anomalous. All data fields in the model have been assigned a data source. As new or better data becomes available in the future, the model network can be progressively updated.

Missing Sections of the Gravity Pipe Network

Comparison of the available pipe network details with aerial photography, Google Maps / Street View, and water billing records highlighted many areas, particularly in subdivisions constructed over the past 5-7 years, that has only been partially included in the GIS. All flows from occupied properties have however been included in the model and connected into the nearest logical manhole. The following Figure 2.4 illustrates this approach in the subdivision to the North West of Springhill and Springdale Rd.

As further as built plans become available, these additional pipes and manholes can be added to the model.



Figure 2.4 – Model Network Extents vs. Existing Development

The following Table 2.1 contains the details of the lengths of gravity sewer in the current model.

Table 2.1 Model Pipeline Characteristics	
Pipe Diameter (in)	Length (ft)
<i>Gravity Sewer</i>	
4	796
6	123,566
8	264,681
10	35,535
12	23,173
15	10,196
18	5,186
24	9,389
Total Gravity Sewers	472,522

Lift Stations and Forcemains

At the commencement of the project, limited information was available regarding the characteristics of the 38 lift stations in the system or details of the receiving forcemains. A marked-up network plan was provided that highlighted the location of the lift stations, the forcemain alignments, pipe diameters and receiving manholes. These details were incorporated into model however during the initial period of calibration, pump flow rates/curves, on/off levels, and wet-well dimensions were unavailable for most stations and were estimated in the model. Field work was undertaken by others to address the pumping station information gaps and details were provided to RJN in late June 2017. Key details from this field work are summarized in Table 2.2.

Table 2.2
Key Details of Lift Stations

Station No.	Name	ID Plate Head (ft)	ID Plate Flow (gpm)	Pump Details	Wet Well Diam (ft)	Rim Elev (ft)	Sump Elev (ft)
1	Andres Gardens I	69	60	2hp Flygt 3ph	4	355.08	345.08
2	Springhill Crossing	18	202	3hp Flygt	6.5	408.05	400.05
3	Bryant Meadows I	28	26	5hp Keen	4	371.67	361.67
4	Dogwood	64	60	5hp Hydromatic	4	392.22	380.22
5	Shobe	121	1825	85hp Flygt	14	344.48	321.28
6	Bethel	152	180	30hp Hydromatic	8.5	446.85	432.65
7	Family Church	62	40	5hp Keen			
8	Stivers	100	100	7.5hp Keen	6	413.87	399.67
9	Meadowlake I	60	125	10hp Fairbanks	8	356.06	338.66
10	Lexington Park I	120	300	30hp Fairbanks	8	330.62	315.72
11	Lexington Park II	52	150	10hp Fairbanks	8	326.58	314.68
12	Indian Springs	110	330	30hp Fairbanks		360	
13	AYSC	65	100	10hp Fairbanks			
14	Commerce	35	75	3hp Hydromatic	4	406.21	396.21
15	Everett	70	30	3hp Hydromatic	6	407.41	397.41
16	Cambridge Place	70	120	5hp Myers	6.5	350.65	334.65
17	Miller Place	46	30	2hp Barnes	4	403.35	387.35
18	Hidden Forest	37	83	5hp Keen 3ph	6	383.89	374.89
19	Pleasant Point			5hp Myer HH	6	346.71	331.71
20	Stoneybrook	100	316	20hp Myers	6.5	384.22	363.12
21	East Ridge	103	80	7.5hp Myers 3ph	5.5	341.73	327.33
22	Meadowlake II	113	250	30hp Hydromatic	6	329.77	317.77
23	MeadowRidge	64	80	5hp Myers	4.5	420.7	403.9
24	Bryant Meadows II	50	48	5hp Myers	4	357.18	342.18
25	Midland	122	1900	85hp Flygt		344.9	322.7
26	Remington	130	140	20hp Myers	7.5	476.94	461.94
27	Springhill Village	115	128	25hp Myers	6.5		
28	Bishop Park	25	350	3hp Myers	6	352.72	336.62
29	Bristol	55	25	2hp Myers	4	410.02	400.02
30	Airport	138	10	1hp E-One	4	387.61	372.11
31	Hillfarm	63	330	11hp Flygt	8	340.83	328.63
32	Camry Court	60	21	3hp Myers	4	348.73	333.73
33	Carmichael	75	30	3hp Myers	4	353.79	341.89
34	Stagecoach	53	90	5hp Flygt			
35	Owen Creek	57	48	3hp Flygt	6	355.17	342.97
36	Andres Gardens II				4	363.32	355.72
37	Harpers Landing			6hp Flygt 3ph	6.5	440.14	428.14
38	Olde Salem	40	180	4hp Flygt	6.5	469.11	454.51

While the duty point on pump ID plate and motor details were provided, the relevant pump curve details were not provided. Based upon ID plate duty point and pump motor information RJN researched the manufacturer's online catalogs to try and determine the likely pump type installed at each site.

Through an iterative process, the pump curves were tested on the model at each pump station to confirm that the operational duty point was similar to that identified on the ID plate. Where RJN were unable to find a curve to fit the duty and motor size or, where the assumed curve operated at a markedly different duty point than the ID plate, the pumps were included in the model as "fixed" pumps with the nominated flow rate.

Sub-catchment Delineation

The property parcel data provided by the City was imported into the model to create the sub-catchments. Areas such as parks, golf courses, etc. that are not connected to the sewer system have been omitted from the sub-catchment delineation as they do not contribute any wastewater flow or RDII into the sewerage system. Each sub-catchment was linked to its nearest logical manhole for loading flows into the model as illustrated by the green arrows in the following Figure 2.5



Figure 2.5 – Sub-catchment Drainage Links

Going into this level of detail, with individual parcels, eliminates the need for time of concentration assumptions during wet weather calibration and makes it easy to update the model in the future to incorporate additional growth as well as the redevelopment of existing properties.

These sub-catchments were subsequently loaded with the parameters for loading flow into the sewer network including population, non-residential water usage, and rainfall derived inflow/infiltration (RDII) runoff parameters.

The final hydraulic model contains 4,933 residential sub-catchments and 302 non-residential sub-catchments. A further 476 vacant sub-catchments have been included in the model but don't provide any DWF or WWF contribution. It is likely that many of these residential properties will be occupied within a few years and by including them in the model now, they can easily be updated in the future.

Population Processing and Residential Flow Generation

Population data was sourced from the 2010 US census and projected to match current population estimates. Households were geo-referenced in the sanitary sewer system using the parcel and land use data from the City GIS. Special attention was made to account for correct distribution with multifamily buildings. Parcels identified as multi-family were converted to an equivalent number of individual households. Populations were assigned to individual households based on geographical distribution within each census block. The total residential population connected to the City of Bryant sewerage system is 15,837. A summary of the population by flow metering basin is shown in Table 2.3.

Meter Basin	No. of Parcels	Average Population Per Parcels	Total Population
BR-01	648	2.62	1,695
BR-02*	240	N/A	2,054
BR-03	353	2.23	787
BR-04	1,230	2.42	2,978
BR-05	1,533	2.48	3,797
BR-06	396	2.15	850
BR-07	187	2.61	489
NonMonitored	1,124	2.84	3,189
Totals	5,711		15,837

* Basin BR02 – Average population per parcel are non-representative due to the large residential population housed in multi-family tenements around Hurricane Golf Course.

Residential dry weather flows are generated in the model by assigning each residential sub-catchment to a dimensionless flow profile in the waste water generator (WWG) to modulate dry-weather flows in the hydraulic model. Three residential profiles were developed by processing the recorded DWF flow data collected during the flow survey and are demonstrated in Figure 2.6. These profiles were assigned per capita flow rates ranging from 60 to 80 gallons/person/day.

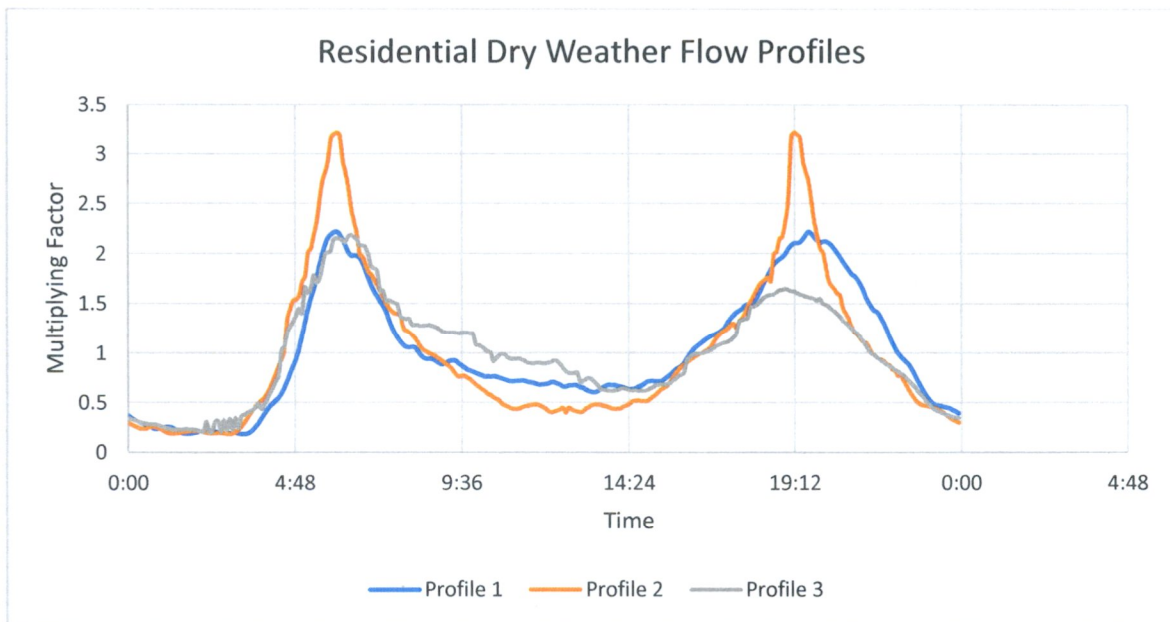


Figure 2.6 – Residential Dry Weather Flow Profiles

Commercial/Industrial Loading

Commercial, industrial, and institutional flows were loaded into the model using the customer water billing data provided by the City. The commercial, industrial, and institutional flows (“non-residential” flows) were calculated by applying a 90% return to sewer factor to the water usage data provided by the City. An RJN standard dimensionless flow profile was assigned to each non-residential customer sub-catchment based on the predominant type of business or industry. A summary of commercial/industrial/institutional flows applied in the model is shown in Table 2.4.

Table 2.4 Non-Residential Sewage Flow	
Meter Basin	MGD
BR-01	0.015
BR-02	0.033
BR-03	0.009
BR-04	0.178
BR-05	0.025
BR-06	0.006
BR-07	0
Non-Monitored	0.013
Totals	0.278

Figure 2.7 shows the dimensionless flow profiles that were used in the model to modulate the non-residential flows in the model.

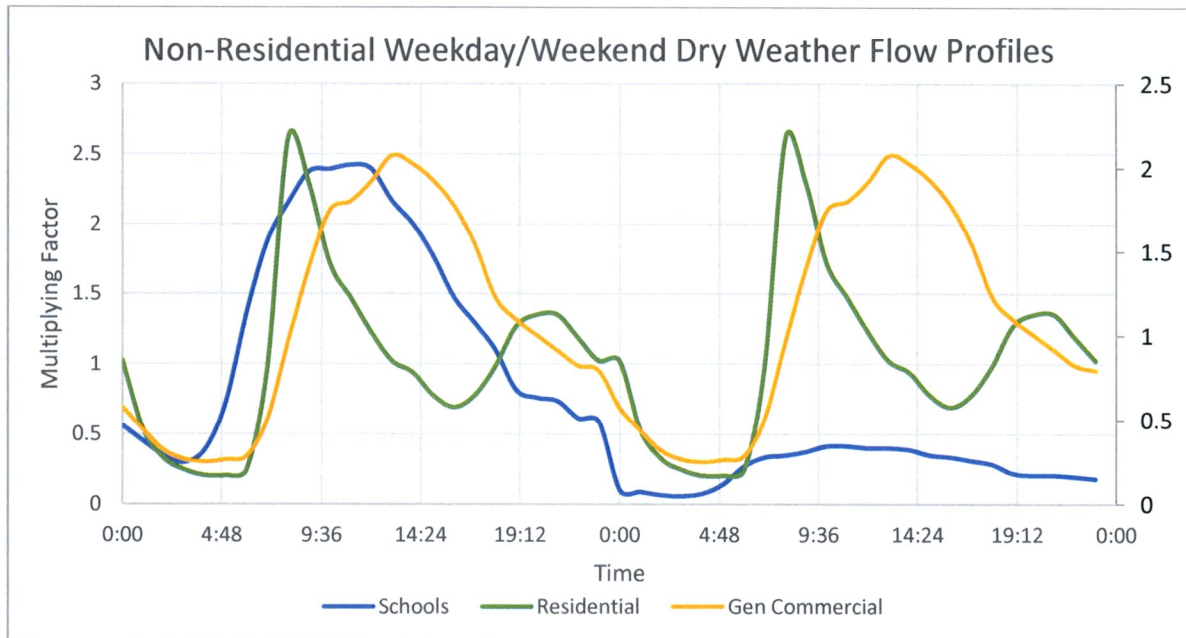


Figure 2.7 – Non-Residential Weekday/ Weekend Dry Weather Flow Profiles

Model Testing

A series of validation tests were undertaken on the model to confirm logical network connectivity as well as consistent vertical alignment. A standard residential hydrograph was applied to each sub catchment in the model and validation simulation undertaken. After a few minor alterations, the model was able to run a 24-hour dry-weather simulation without any issues and was considered to be a stable platform for calibration to proceed.

Dry-Weather Calibration

Process

Calibrating the hydraulic model is necessary for the model to represent the behavior of the sanitary sewer system accurately. Calibration is a process through which model variables and coefficients are adjusted through multiple iterations until flow, depth, and velocity matches actual flow meter data recorded during events. The model is calibrated to recreate sewer performance in both dry-weather and wet-weather conditions. It is important to note that the model does not use the flow survey data as an input to generate flows in the hydraulic model. The flow survey data is used to compare the observed flows against the model predicted flows.

Dry-Weather Period

Dry-weather calibration ideally requires at least a 7-day period unaffected by rainfall derived flows. This period must also include at least one weekend. The recorded flow data was assessed in conjunction with the rainfall data, and from this comparison, the span from October 3, 2016, to October 10, 2016 was initially used for DWF calibration. Following approximately 4” of rain from late November to early December, it became apparent that there was a step change in permanent ground water infiltration at most of the monitoring sites. The model was then adjusted with additional permanent infiltration to reflect the system dry weather response from early December onward. The net result of this change is that the model slightly overpredicts DWF during the earlier dry periods but matches very well for the week prior to the major wet weather event that occurred 23rd/24th December 2016.

Calibration

Although wet-weather flows are generally greater than dry-weather flows, it is sound modeling practice to have a reasonably accurate representation of dry weather flows in the model.

Calibrating the model for dry-weather flow was achieved by:

- Modifying the assigned residential DWF profiles and per capita flow rates
- Assigning permanent ground water infiltration flows in select areas
- Modifying the assigned non-residential profiles

The calibration is considered successful when minimum flow, peak flow and total volume at all meter sites matches recorded data within ten (10) percent. As demonstrated in the following Figure 2.8, even with the highly pump influenced observed flows (blue) at BR05, the model (green) matches closely for both peak flows and volumes over a week

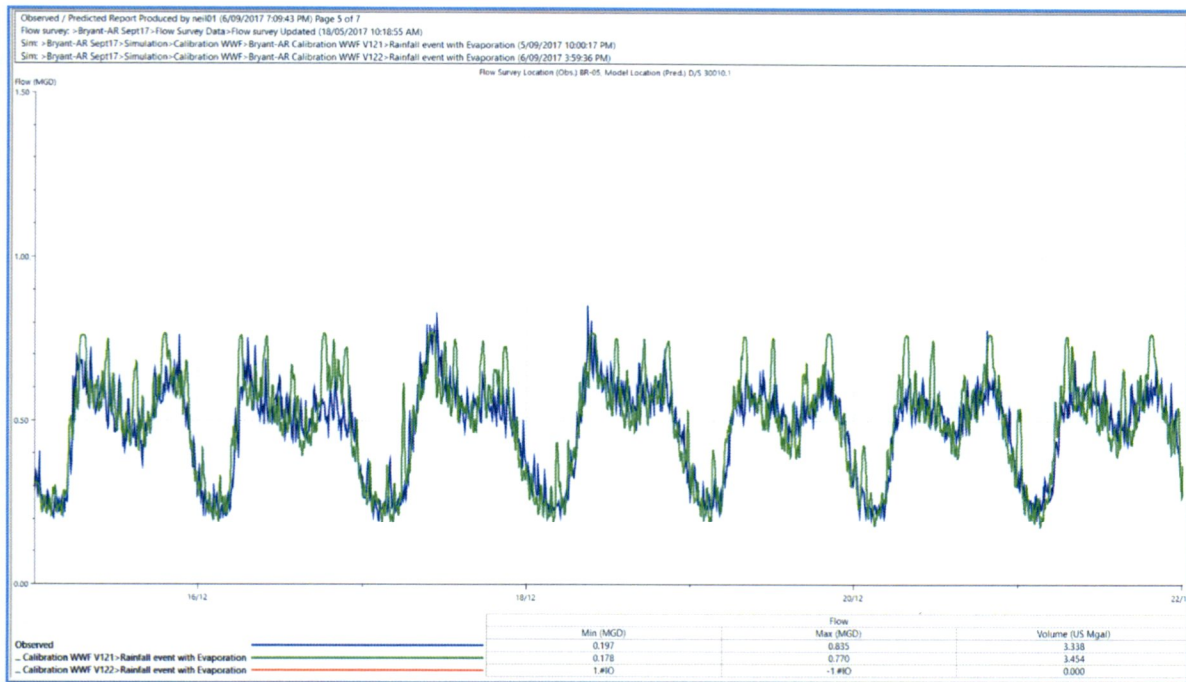


Figure 2.8 – Dry Weather Flow Comparison

Wet-Weather Calibration

Description of Storms

The month preceding the flow monitoring period was particularly dry and then just over an inch fell in the first seven weeks of the survey period. From the 18th of Nov 2016 through to the end of the study period in early Jan 2017, approximately 8” of rain fell over the catchment in a number of almost weekly ½” plus storms culminating in a 2.5” storm over the 23rd/24th of December. This storm resulted in the largest wet weather response across all meters.

Rainfall was recorded using four (4) rain gauges distributed throughout the study area. Storm volumes, intensities, and durations were consistent over the monitoring period and were considered suitable for modeling purposes.

Wet-weather Calibration

Review of the wet-weather responses to rainfall indicated that while there is some wet weather response, the magnitude of the response is reasonably mild compared to other nearby cities, indicating a generally “tight” network from an I/I perspective. During the survey period, the only meter site subjected to any surcharge was BR04, immediately upstream of LS05. During the major wet weather event on the 23rd-24th of December 2016, it appears that the pumping station wet well may have been surcharged for a few hours however there was over 4 feet of freeboard at that time.

Wet-weather flows were generated in the model using both fixed response surfaces as well as infiltration flows:

- Up to three “fixed” response surface areas were calibrated for each sub catchment. These surface types are fundamentally independent of the catchment condition before the rainfall event and represent fast responses from areas such as illegally connected roof drainage and storm water cross connections.
- Infiltration was modeled using hydrology in the Ground Infiltration module within InfoWorks ICM. This hydrological module has soil and groundwater storage zones, and the infiltration into the model is dependent upon the wetness of the catchment prior to the rainfall event. These flows represent the delayed ingress of storm water from the ground into the sewer system through cracks and leaks in sewers and private drains.

During the calibration process, peak flows, infiltration time, depth, and velocity were compared to all metered sites during rain events. The following Figure 2.9 demonstrates the match between the model and the observed flows for the days before and after the 2.5” rainfall event on the 23rd of December.

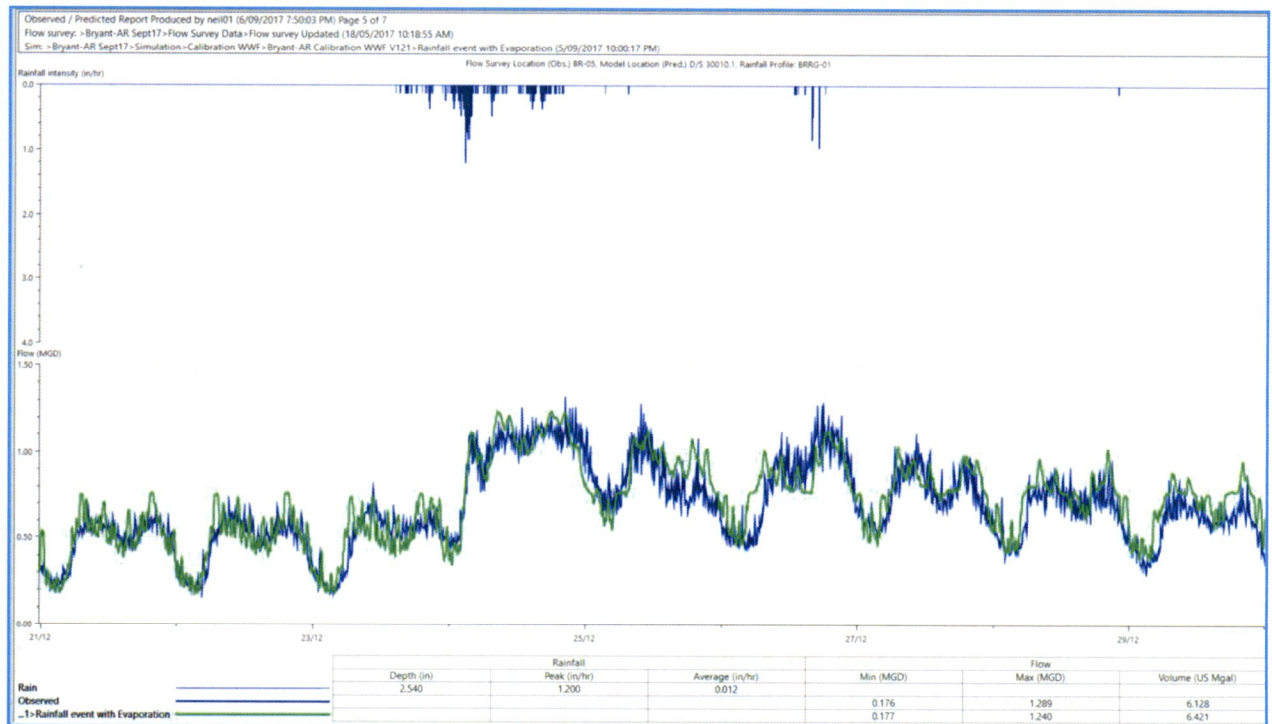


Figure 2.9– Wet Weather Flow Comparison – BR05 – 21 to 30/12/16

CHAPTER 3 CAPACITY ANALYSIS

This chapter provides a summary of the hydraulic model capacity analysis undertaken to establish the system performance under existing conditions.

Existing System Analysis

Dry-Weather

The hydraulic model was calibrated to simulate flows recorded during dry-weather. As mentioned in the previous section, the model was verified to match the DWF conditions when the catchment was dry as well as following substantial rain when there was a noticeable increase in permanent infiltration at most of the monitoring locations.

Based upon the dry-weather calibration with higher permanent infiltration, nearly all the mains in the gravity sewer system have sufficient capacity to transport the existing peak flows. There are a couple of locations where gravity pipes become slightly surcharged when all upstream pumps operate coincidentally for brief periods over a week there is only one section of the gravity network, from MH 30125 to MH 30010, that is running above capacity in DWF on most days.

The following plan and hydraulic profile as shown in Figure 3.1 and 3.2 illustrate the peak flows and surcharge in this line



Figure 3.1- General Location of MH 30125 and MH 30010

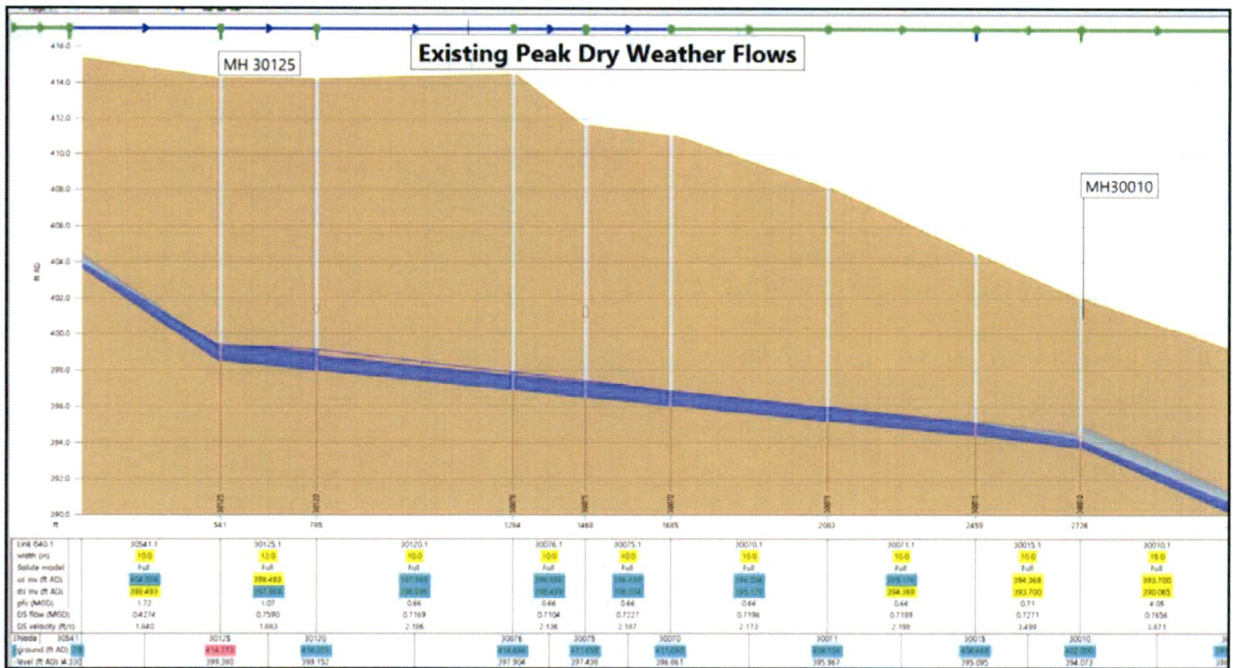


Figure 3.2- Profile from MH 30125 to MH 30010

A map that indicates the capacity utilized under existing dry-weather flow conditions by percentage for each line segment is shown in Exhibit A.

Wet-Weather

During the calibration period, there were no overflows evident and surcharge was only predicted in the vicinity of section detailed above and the 12” line upstream of LS-05 between MH 4354 and MH 4022

Design Storm Analysis

Design Storm Selection

In order to evaluate the collection system’s capacity to transport peak wet-weather flows, a design storm was selected using input from the City’s staff.

Several criteria were considered when selecting the design storm:

- System sensitivity to rainfall;
- System reaction to rainfall derived infiltration;
- Permanent infiltration level when the storm occurs;
- Design storm frequency and duration used by other Authorities in the region.

Nearby cities Little Rock and Hot Springs have adopted a 2-year 24-hour storm as their level of service containment criteria. As the Bryant network is substantially smaller than these systems, RJN has tested both a 2-year 24-hour and a 2-year 6-hour storm on the calibrated model to ensure that the system is adequately hydraulically stressed. The 2-year 24-hour storm flows are predicted to be conveyed by the system whereas the 2-year 6-hour storm does result in overflows upstream of two sections of the gravity network.

Figure 3.3 illustrates the hyetograph applied for the 2 Year 6 Hour storm that has been used in the capacity analysis

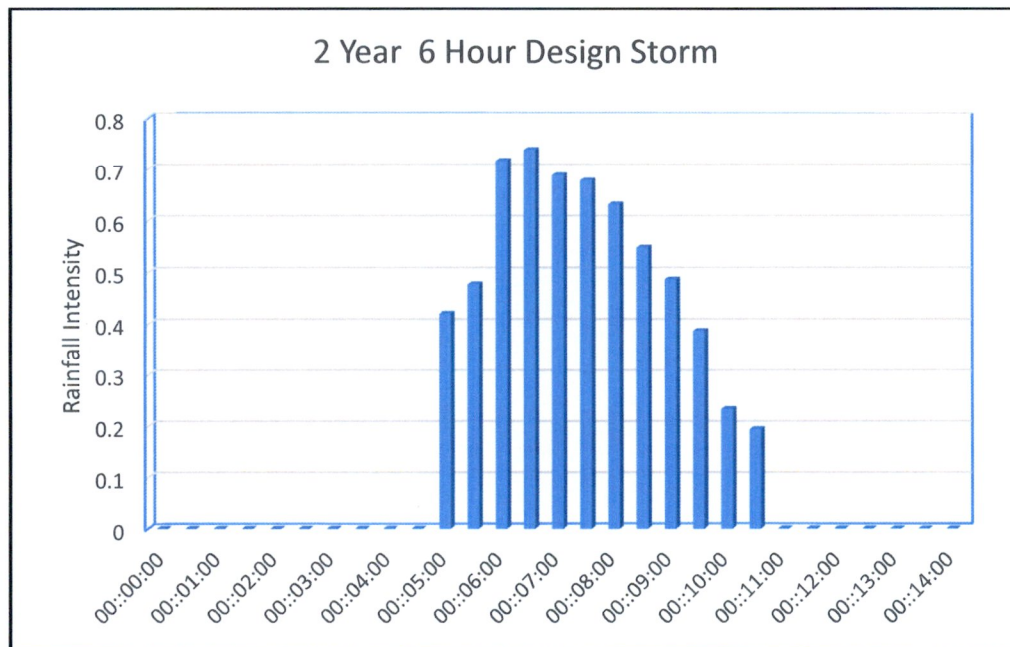


Figure 3.3 - 2 Year 6 Hour Design Storm

Design Criteria

The design criteria that have been adopted to determine the need for upgrades to the gravity pipe network is:

- Upsize pipes as required to prevent upstream overflows
- If pipes are surcharged but no flooding is predicted no upgrades have been recommended however the surcharges are identified as sections of the system that may require future augmentation.

Existing System Performance

Dry Weather Analysis

As described above the only section of gravity sewer that is regularly stressed is in the vicinity of MH 30125 to 30010. This section of pipe is also a major hydraulic throttle during wet weather and will be discussed in the following section.

While not a capacity issue as such, it appears that a number of the pump stations, particularly in the manifold sections of pressurized forcemains, will be operating “off their curves” during dry weather operation when they are the only pump activating in a network. This may result in cavitation and significantly reduce the life expectancy of the pumps.

As detailed in the model build section of this report, many of the pumps in the model have been input as “fixed” pumps with a constant flow rate. This has been necessary as suitable pump curves could not be sourced based on the information available. Given the heavily pumped nature of the Bryant sewerage system, it is recommended that the actual pump curve is sourced for each station and input into the model to enable a comprehensive understanding of the performance of every pumping station in the network.

It is of particular importance for the manifold systems where many pumps are injecting into a common manifold system and will influence the operational conditions for other pumps in their sub-network. The Infoworks ICM hydraulic model is unique in its ability to simulate these types of pressurized systems accurately but is most effective when all contributing injecting pumping stations are accurately modeled with their current pump curve.

Design Storm Analysis

The selected 2-year 6-hour design storm was simulated on the model with a “wet” level of permanent infiltration. Manhole overflows are predicted in two general locations:

- At manhole 30150, upstream of the hydraulic throttle previously identified between MH 30125 and MH 30010. Figure 3.4 shows the general location of MH 30150 and Figure 3.5 illustrate the profile downstream of MH 30150.

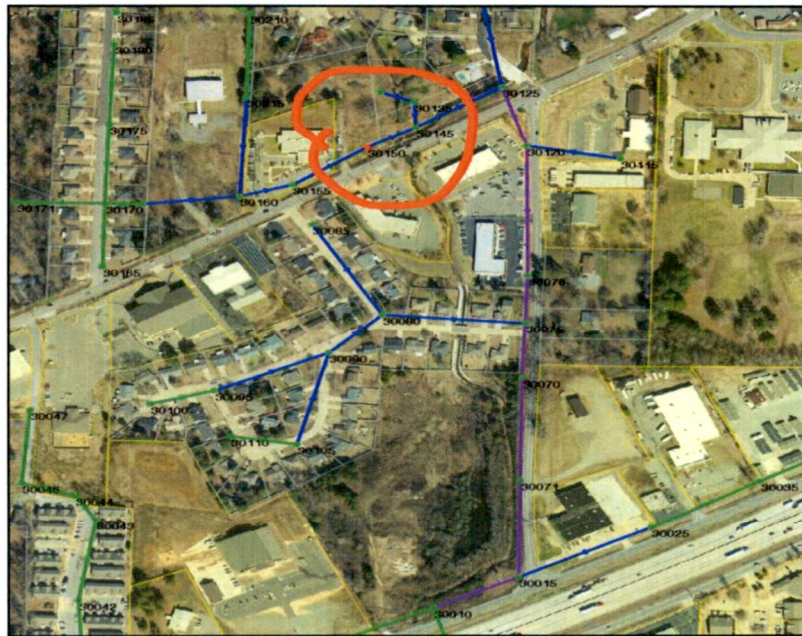


Figure 3.4- General Location of MH 30150

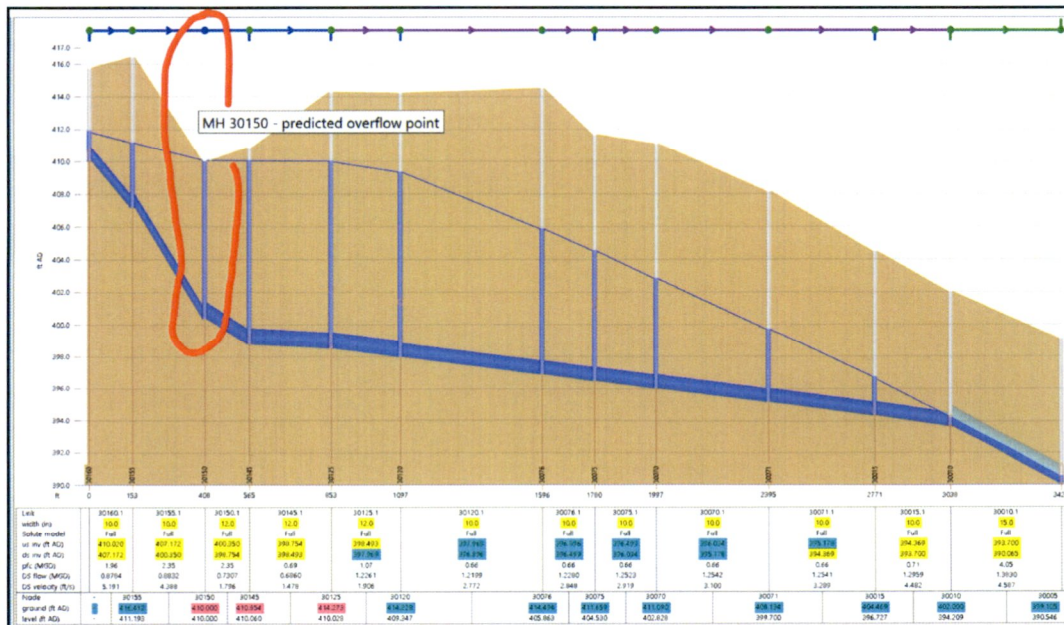


Figure 3.5- Profile Downstream of MH 30150

- At manholes 4328 and 4132 along the 12" gravity sewer draining to LS-05. Figure 3.6 shows the general location of MH 4328 and MH 4132, and Figure 3.7 illustrates the profile downstream of MH 4328 and MH 4132.

In both cases, the root cause of the overflows is due to lack of capacity in downstream pipes. All SSO manholes and volume of SSO is listed in Table 3.1. A map indicating the capacity utilized during peak design storm flows by percentage for each line segment is shown in Exhibit B.

Manhole ID	SSO Volume (MG)
30150	0.0632
4132	0.0132
4328	0.0044
Total	0.0808

Recommended Improvements

A number of iterations was simulated on the model to determine the extent of pipes that require either upgrading or duplication to augment the capacity in the two deficient line segments.

For the purpose of this analysis, it has been assumed that the existing pipelines will be upgraded to the specified new size. However, the additional hydraulic capacity required could equally be achieved with an appropriately sized duplicate main.

The line section from MH 30125 to MH 30010 is recommended to upgrade to 15-inch. The Figure 3.8 and Figure 3.9 shows the general location of the line section recommended for the upgrade and the HGL profile of the line section after augmentation respectively.



Figure 3.8- Gravity Line from MH 30125 to MH 30010

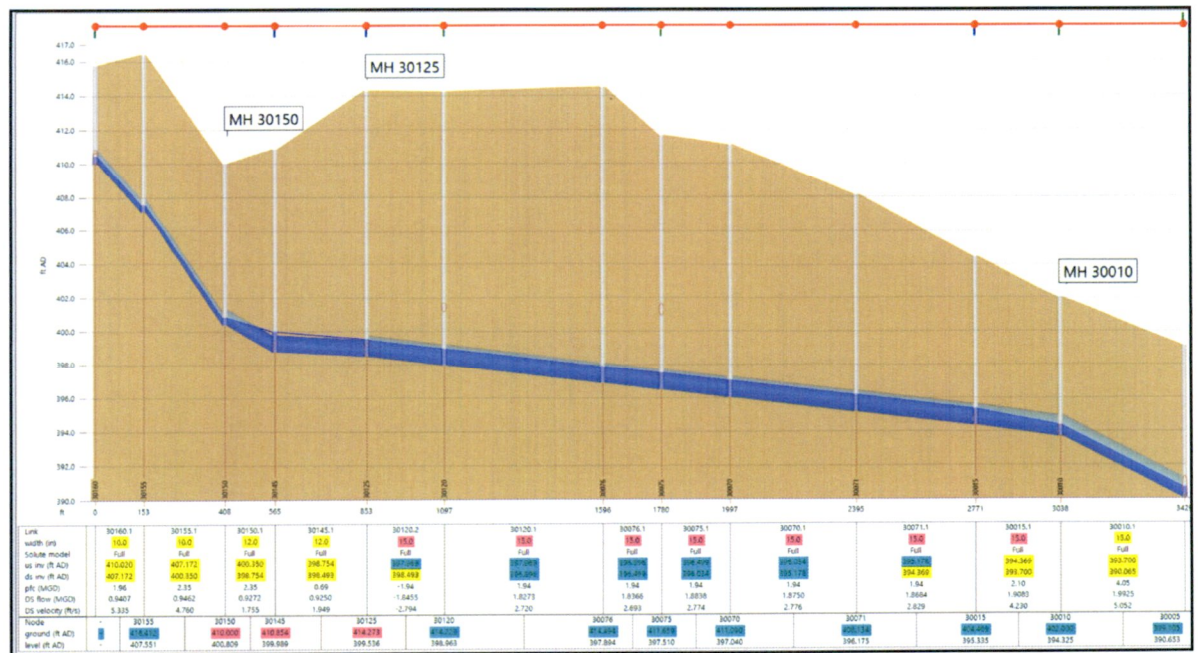


Figure 3.9- Post Augmentation Profile from MH 30125 to MH 30010

The line section from MH 4281 to MH 4134 is recommended to upsize to 12-inch, and the line section from MH 4134 to MH 4022 is recommended to upgrade to 15-inch. Figure 3.9 and Figure 3.10 shows the general location of the line section recommended for the upgrade and the HGL profile of the line section after augmentation.



Figure 3.10- Gravity Line from MH 4281 to MH 4022

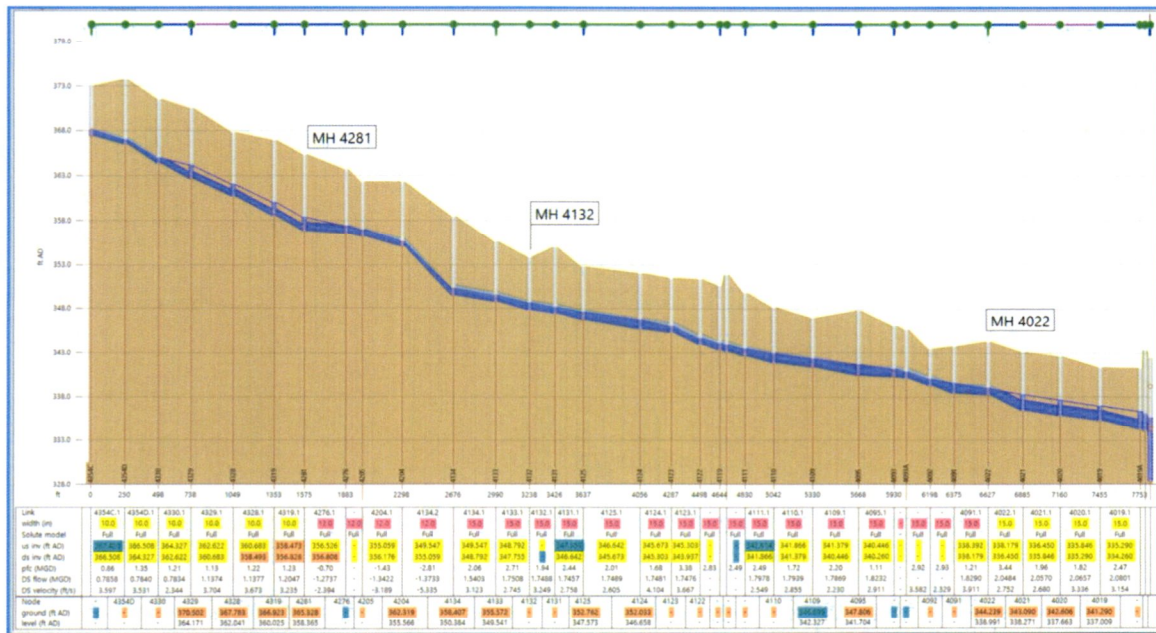


Figure 3.11- Post Augmentation Profile from MH 4281 to MH 4022

CHAPTER 4 – CAPITAL IMPROVEMENT PLAN

This chapter presents a summary of the required plan to handle existing flows under peak design storm conditions as well as a program of future activities to be considered by the City.

Inflow and Infiltration Reduction

As indicated in Chapter 1, two basins, BR-03 and BR-06, have been identified as having excessive levels of inflow and infiltration (I/I). It is recommended that a Sanitary Sewer Evaluation Study (SSES) program be implemented to identify and quantify the source of the I/I. Additionally, once the I/I has been identified, a program to reduce it should be implemented.

Existing System Capacity Improvements

The following improvements are designed to eliminate recorded and modeled predicted overflows and to reduce surcharge in the sanitary sewer system under existing conditions.

Pipeline Improvements

The required pipeline improvements include:

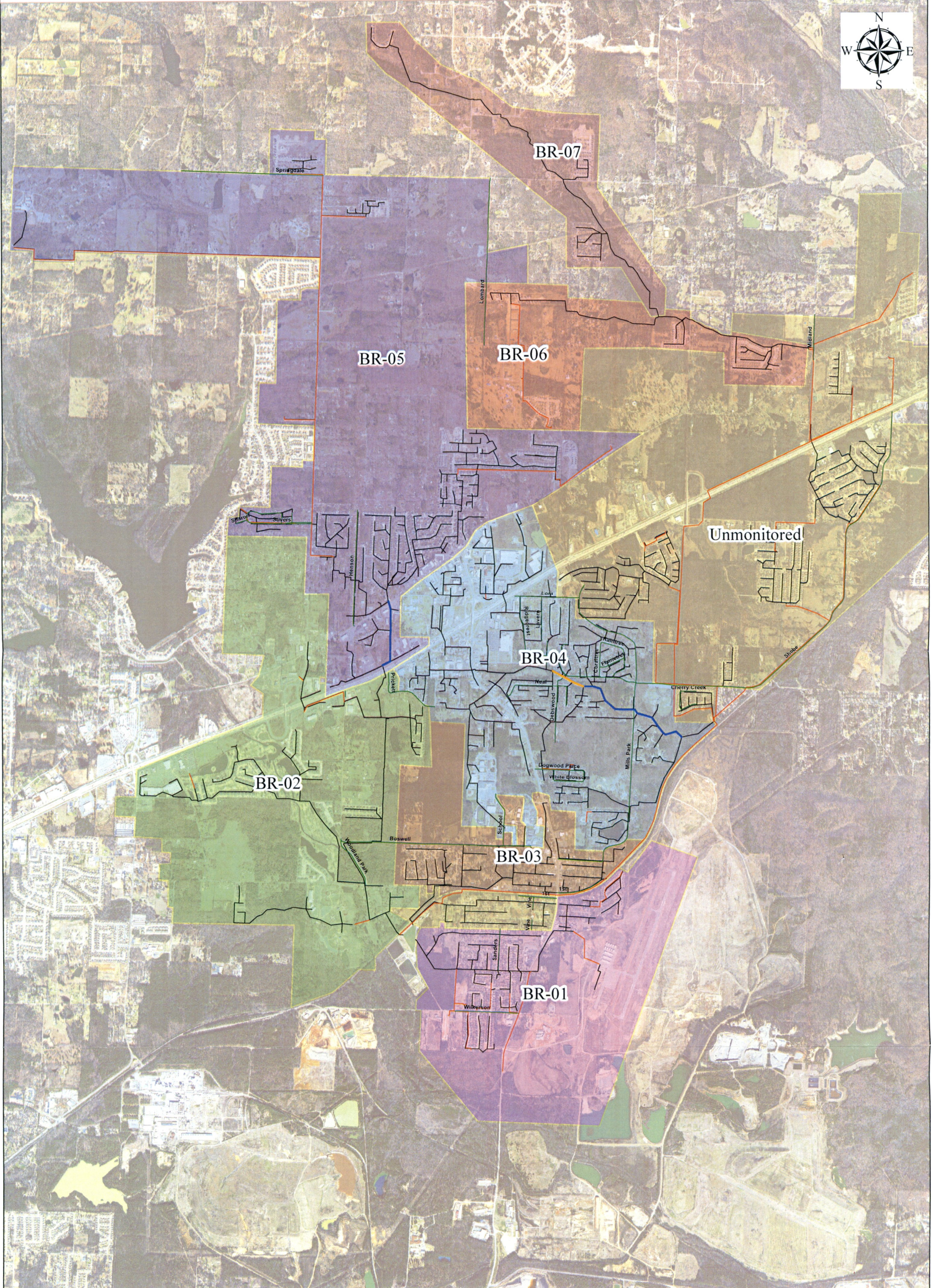
- Upgrading 2185 ft. of 10" sewer to 15" from MH30125 to MH 30010
- Upgrading 1101 ft. of 10" sewer to 12" from MH 4281 to MH 4134
- Upgrading 3951 ft. of 12" sewer to 15" from MH 4134 to MH 4022

A summary of the recommended capacity improvements and estimated construction cost are shown in Table 4.1. The improvements are shown graphically in Figure 4.1. The details of the line sections recommended for improvements can be found in Appendix G.

Pipe Size	Length (ft.)	Construction Cost (\$)
15	6,136	\$1,503,320
12	1,101	\$247,725
Total	7,237	\$1,751,045

Lift Station Improvement Program

While there are no immediate capacity issues apparent with the lift stations, there are some gaps that need to be closed to enable the model to confidently reflect the hydraulics in all lift stations and force mains, in particular, those manifold networks where a number of pumps inject into a common pressurized system.



The Table 4.2 illustrates the comparison of the modeled performance vs. the pump performance denoted with the provided pump name plate data. The Model Type defines those stations that have an assumed pump curve in the model and those that have been included with a fixed flow rate as per the ID plate. The Model Duty data reports on the hydraulics at each lift station in the model.

The majority of the lift stations are reasonably represented in the model however most will be enhanced by having the actual pump curve input into the model. The most critical curves to the source are for LS10, LS 22 and LS 19.

Once all the pump curves have been sourced and incorporated into the model further analysis could be undertaken to confirm:

- The system operation during design storm conditions
- The dry weather system performance of all of the pumps in the manifold systems. It appears highly likely that a number of these pumps will be operating “off their curve” which may result in reduced pump life due to cavitation.

**Table 4.2
Comparison of Modeled Performance vs. Pump Performance**

Station No.	Nameplate		Pump Model	Pump Type in Model	Model Duty		Observation	Pump Curve Required
	Head (ft.)	Pump Rate (gpm)			Flow (gpm)	Head (ft.)		
1	69	60	2hp Flygt 3ph	FIXPMP	60	15	Fixed flow but head different- Check	Y
2	18	202	3hp Flygt	FIXPMP	202	83	Fixed flow but head different- Check	Y
3	28	26	5hp Keen	FIXPMP	26	43	Fixed flow but head different- Check	Y
4	64	60	5hp Hydromantic	ROTPMP	65	61.7	Reasonable	N
5	121	1825	85hp Flygt	ROTPMP	2236	95	Confirm pump curve / forcemain dia.	Y
6	152	180	30hp Hydromantic	ROTPMP	207	146	Reasonable but manifolded. Confirm curve	Y

**Table 4.2
Comparison of Modeled Performance vs. Pump Performance**

Station No.	Nameplate		Pump Model	Pump Type in Model	Model Duty		Observation	Pump Curve Required
	Head (ft.)	Pump Rate (gpm)			Flow (gpm)	Head (ft.)		
7	62	40	5hp Keen	ROTPMP	60	58	Confirm pump curve / forcemain dia.	Y
8	100	100	7.5hp Keen	ROTPMP	105	96	Reasonable	N
9	60	125	10hp Fairbanks	FIXPMP	125	53	Reasonable but check with curve	Y
10	120	300	30hp Fairbanks	FIXPMP	300	157	Manifolded with LS 22 - Curve require	Y
11	52	150	10hp Fairbanks	FIXPMP	150	48	Reasonable but curve ideally required	Y
12	110	330	30hp Fairbanks	FIXPMP	330	107	Manifolded with LS 16. Confirm curve	Y
13	65	100	10hp Fairbanks	FIXPMP	100	40	Confirm pump curve / forcemain dia.	Y
14	35	75	3hp Hydromantic	ROTPMP	61	39	Confirm pump curve / forcemain dia.	Y
15	70	30	3hp Hydromantic	ROTPMP	50	55	Confirm pump curve / forcemain dia.	Y
16	70	120	5hp Myers	ROTPMP	175	42	Manifolded with LS 12. Confirm curve	Y
17	46	30	2hp Barnes	FIXPMP	30	43	Reasonable but curve ideally required	Y
18	37	83	5hp Keen 3ph	ROTPMP	85	37	Good	N
19			5hp Myer HH	FIXPMP	174		Need to confirm pump curves	Y
20	100	316	20hp Myers	ROTPMP	282	105	Lower duty point but reasonable	N
21	103	80	7.5hp Myers 3ph	ROTPMP	76	106	Lower duty point but reasonable	N

**Table 4.2
Comparison of Modeled Performance vs. Pump Performance**

Station No.	Nameplate		Pump Model	Pump Type in Model	Model Duty		Observation	Pump Curve Required
	Head (ft.)	Pump Rate (gpm)			Flow (gpm)	Head (ft.)		
22	113	250	30hp Hydromantic	ROTPMP	356	108	When LS10 running 123gpm@120"	Y
23	64	80	5hp Myers	ROTPMP	64	67	Need to confirm pump curve	Y
24	50	48	5hp Myers	ROTPMP	49	50	Good	N
25	122	1900	85hp Flygt	ROTPMP	2050	107	Reasonable - Confirm manifolded LS	N
26	130	140	20hp Myers	FIXPMP	140	80	Reasonable but manifolded. Confirm curve	Y
27	115	128	25hp Myers	FIXPMP	128	86	Reasonable but manifolded. Confirm curve	Y
28	25	350	3hp Myers	FIXPMP	39	17	Confirm pump curve / forcemain dia.	Y
29	55	25	2hp Myers	ROTPMP	39	17	Confirm pump curve / forcemain dia.	Y
30	138	10	1hp E-One	ROTPMP	13	31	Confirm pump curve / forcemain dia.	Y
31	63	330	11hp Flygt	ROTPMP	118	106	Confirm pump curve / forcemain dia.	Y
32	60	21	3hp Myers	ROTPMP	21	60	As a single pump range from 37gpm@55.5' to 42gpm@54'	N
33	75	30	3hp Myers	ROTPMP	30	75	As a single pump range from 51gpm@64' to 55gpm@62'	N
34	53	90	5hp Flygt	FIXPMP	90	80	Confirm pump curve / forcemain dia.	Y
35	57	48	3hp Flygt	FIXPMP	48	37	Confirm pump curve / forcemain dia.	Y

**Table 4.2
Comparison of Modeled Performance vs. Pump Performance**

Station No.	Nameplate		Pump Model	Pump Type in Model	Model Duty		Observation	Pump Curve Required
	Head (ft.)	Pump Rate (gpm)			Flow (gpm)	Head (ft.)		
36				FIXPMP	35	22	Confirm pump curve / forcemain dia.	Y
37			6hp Flygt 3ph	FIXPMP	35	110	Reasonable but manifolded. Confirm curve	Y
38	40	180	4hp Flygt	FIXPMP	69		Confirm pump curve / forcemain diam	Y

Future Master Plan

Once the model is refined with the additional pump curve information, it is recommended that the City of Bryant consider using the existing model as the platform to develop a comprehensive system masterplan to cater for future growth.

The benefit of undertaking such an exercise in the near term is that any capital improvement works identified in the future augmentation plan can be incorporated into the near term capital.

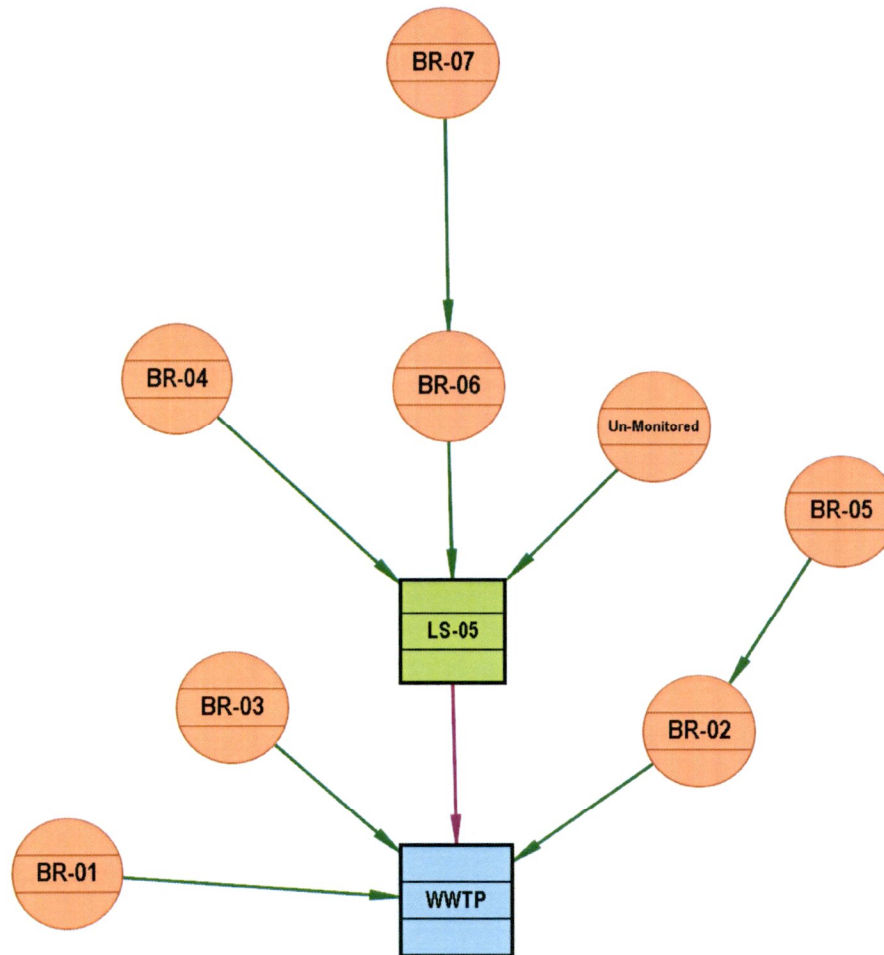
For example, the sections of sewer that have been identified as requiring capital improvements for the existing conditions may have increased flows in the future. Hence any capital works constructed to resolve existing problems could be sized to “future proof” the system at marginal additional costs.

MAP(S)/PLAN(S) SCANNED IN
SEPARATE FILE

APPENDIX A
BASIN FLOW DIAGRAM


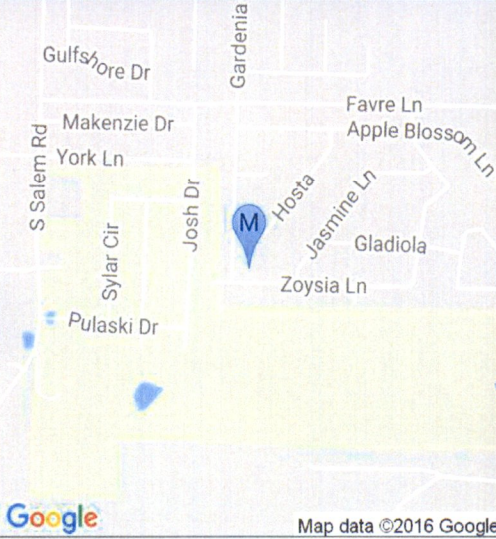




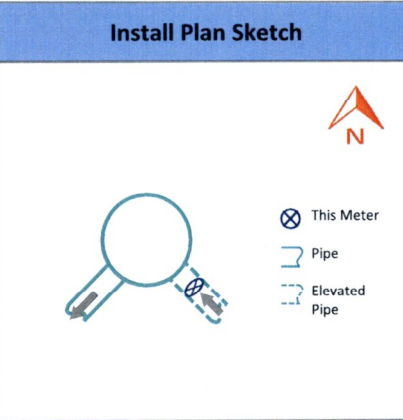
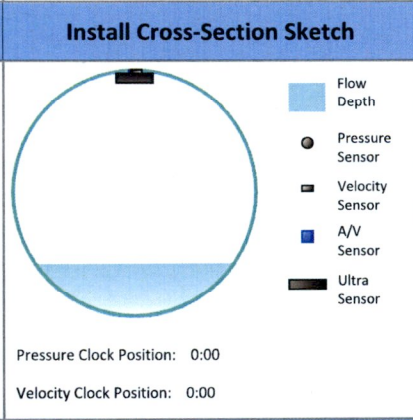
Flow Network

18-3034-00: Crist Engineers Bryant Flow Monitoring and Modeling



APPENDIX B

FLOW METER SITE SHEETS

 The Choice for Collection System Solutions		Crist Engineers Bryant Flow Monitoring and Modeling		Site Name BR-01	
Inspected By T. Emmerling; F. Porchia		Project No. 18-3034-00		Site Code T	
Inspected Date/Time 9/21/2016 5:20 PM					
System Information		Area Location Map		Area View Picture	
Target Pipe Dia. (in) 12 Municipality District Bryant Assigned Rain Gauge BRRG-03 Client Manhole # 10455 U/S Connecting MH I.D. 10460 System Characteristics: Residential - <input type="checkbox"/> Commercial - <input type="checkbox"/> Industrial - <input type="checkbox"/> P/S Influence No WWTP Influence No					
Location Information				Top View Picture	
Site Address 1019 SW 2nd St Site Access Off-Road Longitude -92.5042 Latitude 34.5907 MH Type Lined Manhole Depth (ft) 8.98 Manhole Width (ft) 48 Elevated MH No Height Elevated (ft) Structural Integrity Safe		Access Notes Can get access off of Cynamide Rd, just past Carmichael Rd. Off road by fence			
Site Information		Investigation Photo		Installation Photo	
Pipe Height (in) 11.94 Pipe Width (in) 11.94 Pipe Type Polyvinyl Chloride Pipe Shape Elliptical O2 20.9 LEL % 0 H2S 0 CO 0					
Hydraulic Information		Hydraulic Characteristics		Installation Notes	
Flow Depth (in) 2.5 Instant Velocity (fps) 4.5 Surge Evidence (ft) N/A Silt Type None Silt Depth (in) 0 Needs Cleaning No Backwater No Flow Path Slight Bend Drop Inlet No Hydraulic Rating Good		Install Plan Sketch		Install Cross-Section Sketch	
Installation Notes					
Location in Pipe (ft) 1 Location from Manhole Upstream Sensors Antenna Surface Non-Paved Surface Signal Strength 75		Post Installation Notes		Approvals	
Meter Type Telemetry Type Puck Installation Date 9/28/2016		Recommended by FSP		Client Approval No	

Inspected By T. Emmerling; F. Porchia

Project No.

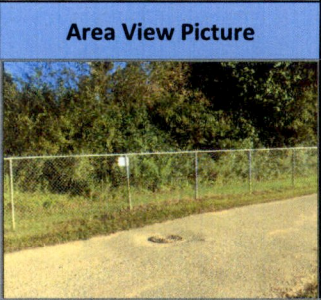
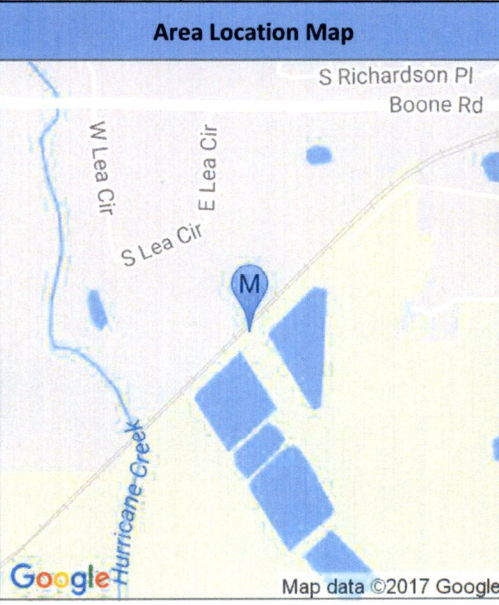
Site Code

Inspected Date/Time 9/21/2016 5:28 PM

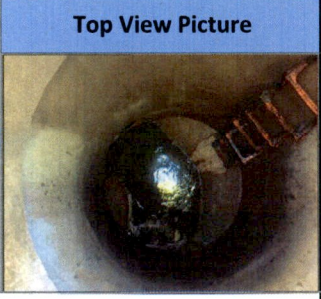
18-3034-00

T

System Information	
Target Pipe Dia. (in)	24
Municipality	
District	Bryant
Assigned Rain Gauge	BRRG-03
Client Manhole #	20005
U/S Connecting MH I.D	20010
System Characteristics:	
Residential - <input type="checkbox"/>	Commercial - <input type="checkbox"/> Industrial - <input type="checkbox"/>
P/S Influence	No
WWTP Influence	No

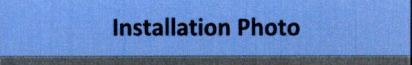
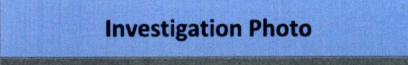


Location Information	
Site Address	1019 SW 2nd St
Site Access	Roadway, Low Traffic
Longitude	-92.5061
Latitude	34.5912
MH Type	Precast Concrete
Manhole Depth (ft)	12.01
Manhole Width (ft)	69
Elevated MH	No
Height Elevated (ft)	
Structural Integrity	Safe

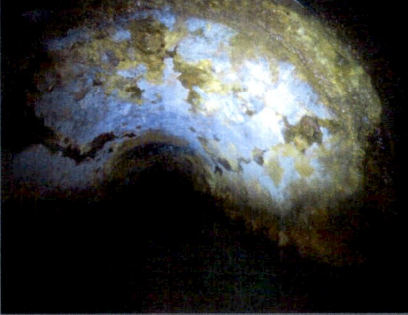


Access Notes Can access off of same road as BR-01. In center of road

Site Information	
Pipe Height (in)	24.25
Pipe Width (in)	24
Pipe Type	Corrugated Metal
Pipe Shape	Circular
O2	20.8
LEL %	0
H2S	0
CO	0



Hydraulic Information	
Flow Depth (in)	9.12
Instant Velocity (fps)	1.3
Surcharge Evidence (ft)	N/A
Silt Type	None
Silt Depth (in)	0
Needs Cleaning	No
Backwater	No
Flow Path	Slight Bend
Drop Inlet	No
Hydraulic Rating	Fair

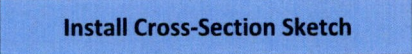
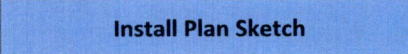


Installation Notes	
Location in Pipe (ft)	1
Location from Manhole	Upstream
Sensors	
Antenna Surface	Paved Surface
Signal Strength	75

Hydraulic Characteristics


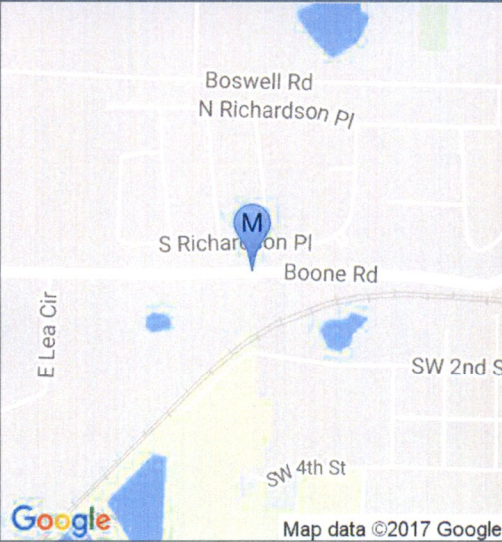

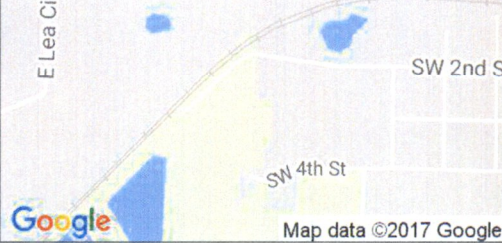



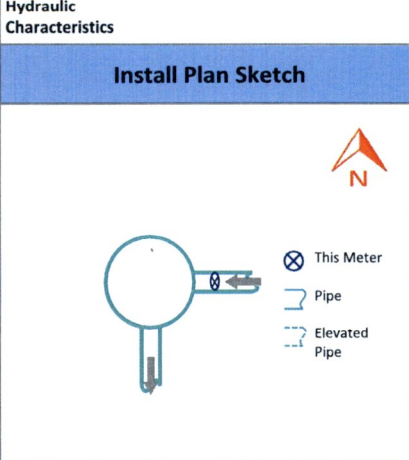
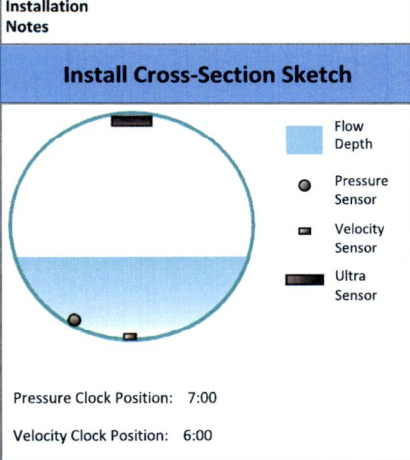
Installation Notes


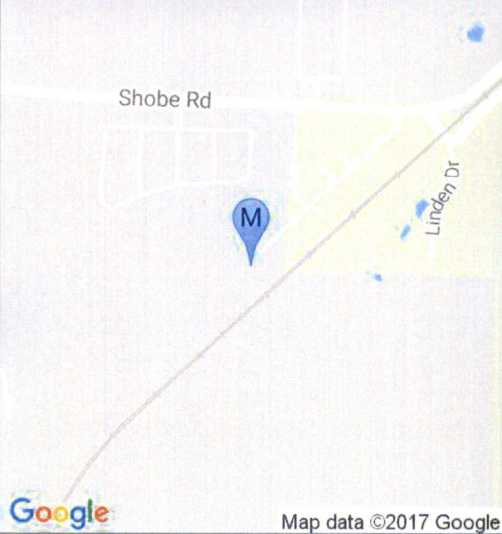



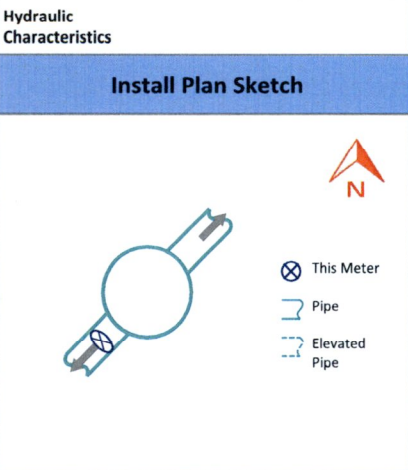
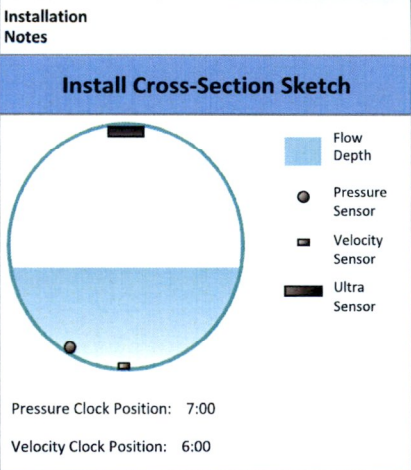
Post Installation Notes	
Meter Type	
Telemetry Type	Puck
Installation Date	9/28/2016



Pressure Clock Position: 7:00
Velocity Clock Position: 6:00

Approvals	
Recommended by FSP	Client Approval
	No

 The Choice for Collection System Solutions		Crist Engineers Bryant Flow Monitoring and Modeling		Site Name BR-03	
Inspected By T. Emmerling; F. Porchia		Project No. 18-3034-00		Site Code T	
Inspected Date/Time 9/21/2016 5:34 PM		18-3034-00		T	
System Information		Area Location Map		Area View Picture	
Target Pipe Dia. (in) 10 Municipality District Bryant Assigned Rain Gauge BRRG-03 Client Manhole # 50005 U/S Connecting MH I.D. 50010 System Characteristics: Residential - <input type="checkbox"/> Commercial - <input type="checkbox"/> Industrial - <input type="checkbox"/> P/S Influence No WWTP Influence No					
Location Information				Top View Picture	
Site Address 1203 Boone Rd Site Access Roadway, Low Traffic Longitude -92.5023 Latitude 34.5955 MH Type Other Manhole Depth (ft) 9.82 Manhole Width (ft) 48 Elevated MH No Height Elevated (ft) Structural Integrity Safe		Access Notes On side of road by church marked with green paint			
Site Information		Investigation Photo		Installation Photo	
Pipe Height (in) 8.56 Pipe Width (in) 9.25 Pipe Type Vitrified Clay Pipe Shape Elliptical O2 20.8 LEL % 0 H2S 0 CO 0					
Hydraulic Information		Hydraulic Characteristics		Installation Notes	
Flow Depth (in) 3.06 Instant Velocity (fps) 1.8 Surge Evidence (ft) N/A Silt Type None Silt Depth (in) 0 Needs Cleaning No Backwater No Flow Path Slight Bend Drop Inlet No Hydraulic Rating Fair		Install Plan Sketch		Install Cross-Section Sketch	
Installation Notes					
Location in Pipe (ft) 1 Location from Manhole Upstream Sensors Antenna Surface Paved Surface Signal Strength 100		This Meter Pipe Elevated Pipe		Flow Depth Pressure Sensor Velocity Sensor Ultra Sensor Pressure Clock Position: 7:00 Velocity Clock Position: 6:00	
Post Installation Notes		Approvals			
Meter Type Telemetry Type Puck Installation Date 9/29/2016		Recommended by FSP		Client Approval No	

 The Choice for Collection System Solutions		Crist Engineers Bryant Flow Monitoring and Modeling		Site Name BR-04	
Inspected By T. Emmerling; F. Porchia		Project No. 18-3034-00		Site Code U1	
Inspected Date/Time 9/21/2016 5:46 PM		18-3034-00		U1	
System Information		Area Location Map		Area View Picture	
Target Pipe Dia. (in) 15 Municipality District Bryant Assigned Rain Gauge BRRG-04 Client Manhole # 4019A U/S Connecting MH I.D 4019 System Characteristics: Residential - <input type="checkbox"/> Commercial - <input type="checkbox"/> Industrial - <input type="checkbox"/> P/S Influence No WWTP Influence No					
Location Information		Access Notes Access off of Evergreen Dr		Top View Picture	
Site Address 15601 Evergreen Dr Site Access Off-Road Longitude -92.4726 Latitude 34.60986 MH Type Precast Concrete Manhole Depth (ft) 6.99 Manhole Width (ft) 48 Elevated MH Yes Height Elevated (ft) 2 Structural Integrity Safe		Investigation Photo		Installation Photo	
Site Information					
Pipe Height (in) 15.75 Pipe Width (in) 15.12 Pipe Type Iron Pipe Shape Circular O2 20.8 LEL % 0 H2S 0 CO 0		Hydraulic Characteristics		Installation Notes	
Hydraulic Information		Install Plan Sketch		Install Cross-Section Sketch	
Flow Depth (in) 6.5 Instant Velocity (fps) 1.5 Surge Evidence (ft) N/A Silt Type None Silt Depth (in) 0 Needs Cleaning No Backwater No Flow Path Slight Bend Drop Inlet No Hydraulic Rating Good					
Installation Notes		This Meter Pipe Elevated Pipe		Flow Depth Pressure Sensor Velocity Sensor Ultra Sensor Pressure Clock Position: 7:00 Velocity Clock Position: 6:00	
Location in Pipe (ft) 1 Location from Manhole Downstream Sensors Antenna Surface Non-Paved Surface Signal Strength 50		Post Installation Notes		Approvals	
Meter Type Telemetry Type Puck Installation Date 9/29/2016		Recommended by FSP		Client Approval No	

Inspected By T. Emmerling; F. Porchia

Project No.

Site Code

Inspected Date/Time 9/21/2016 5:54 PM

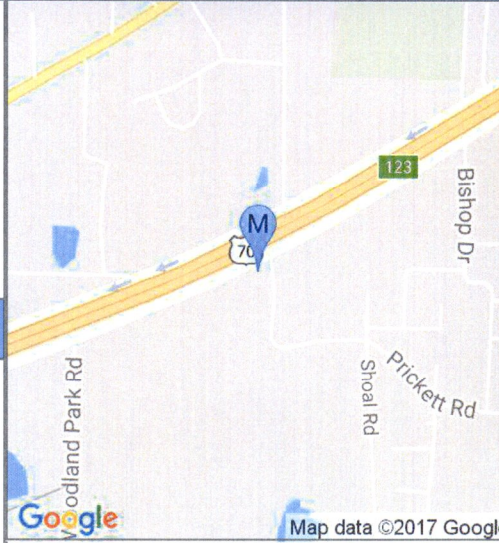
18-3034-00

T

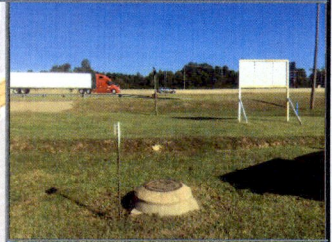
System Information

Target Pipe Dia. (in) 15
 Municipality
 District Bryant
 Assigned Rain Gauge BRRG-01
 Client Manhole # 30005
 U/S Connecting MH I.D 30010
 System Characteristics:
 Residential - Commercial - Industrial -
 P/S Influence No
 WWTP Influence No

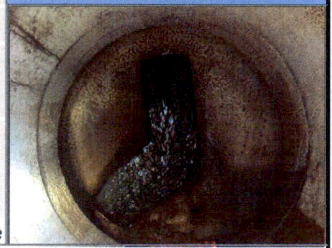
Area Location Map



Area View Picture



Top View Picture



Location Information

Site Address 1607 Prickett Rd
 Site Access Off-Road
 Longitude -92.5076
 Latitude 34.6137
 MH Type Precast Concrete
 Manhole Depth (ft) 9.53
 Manhole Width (ft) 48
 Elevated MH Yes
 Height Elevated (ft) 1
 Structural Integrity Safe

Access Notes First manhole across from storage place by I30

Site Information

Pipe Height (in) 14.5
 Pipe Width (in) 14.94
 Pipe Type Polyvinyl Chloride
 Pipe Shape Circular
 O2 20.9 LEL % 0
 H2S 0 CO 0

Investigation Photo



Installation Photo



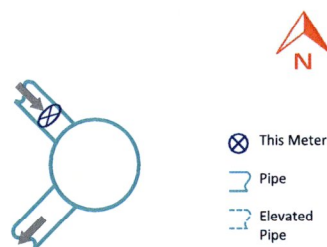
Hydraulic Characteristics

Installation Notes

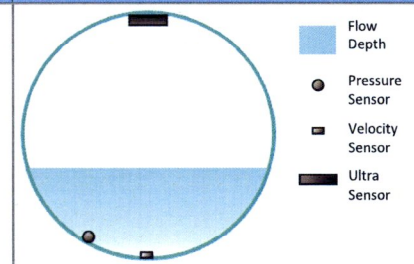
Hydraulic Information

Flow Depth (in) 5.25
 Instant Velocity (fps) 2.5
 Surge Evidence (ft) N/A
 Silt Type None
 Silt Depth (in) 0
 Needs Cleaning No
 Backwater No
 Flow Path Slight Bend
 Drop Inlet No
 Hydraulic Rating Good

Install Plan Sketch



Install Cross-Section Sketch



Pressure Clock Position: 7:00

Velocity Clock Position: 6:00

Installation Notes

Location in Pipe (ft) 1
 Location from Manhole Upstream
 Sensors
 Antenna Surface Non-Paved Surface
 Signal Strength 100

Post Installation Notes


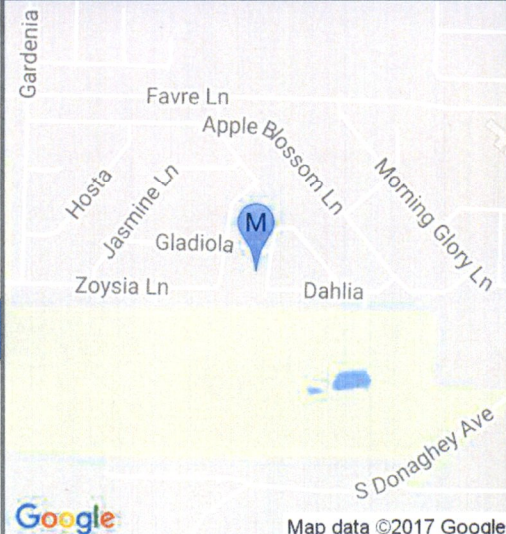



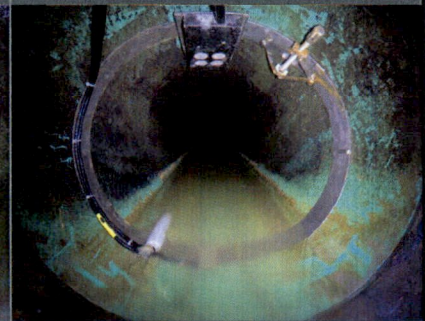
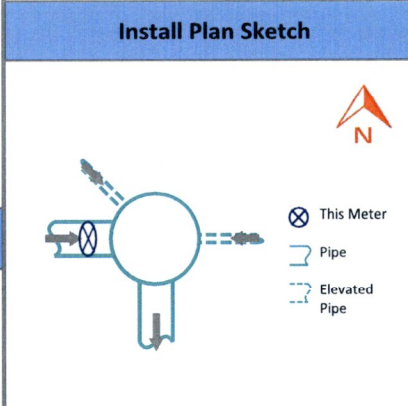

Meter Type
 Telemetry Type Puck
 Installation Date 9/29/2016


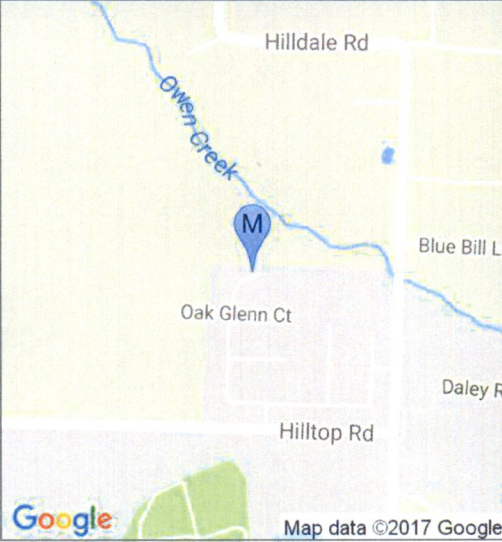

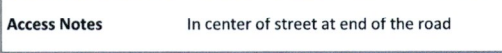



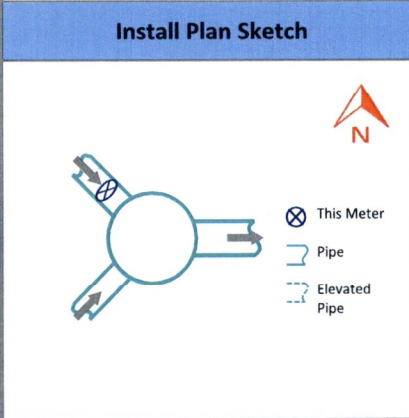

Approvals

Recommended by FSP

Client Approval

No

		Crist Engineers Bryant Flow Monitoring and Modeling		Site Name BR-06	
Inspected By T. Emmerling; F. Porchia		Project No. 18-3034-00		Site Code T	
Inspected Date/Time 9/21/2016 6:02 PM					
System Information		Area Location Map		Area View Picture	
Target Pipe Dia. (in) 18 Municipality District Bryant Assigned Rain Gauge BRRG-02 Client Manhole # 60000 U/S Connecting MH I.D 60005 System Characteristics: Residential - <input type="checkbox"/> Commercial - <input type="checkbox"/> Industrial - <input type="checkbox"/> P/S Influence No WWTP Influence No					
Location Information				Top View Picture	
Site Address 4001 Midland Rd Site Access Off-Road Longitude -92.4624 Latitude 35.052561 MH Type Precast Concrete Manhole Depth (ft) 8.05 Manhole Width (ft) 48 Elevated MH Yes Height Elevated (ft) 1.5 Structural Integrity Safe					
Site Information		Investigation Photo		Installation Photo	
Pipe Height (in) 16.25 Pipe Width (in) 18.5 Pipe Type Polyvinyl Chloride Pipe Shape Circular O2 20.9 LEL % 0 H2S 0 CO 0					
Hydraulic Information		Hydraulic Characteristics		Installation Notes	
Flow Depth (in) 2.75 Instant Velocity (fps) 1.81 Surge Evidence (ft) N/A Silt Type None Silt Depth (in) 0 Needs Cleaning No Backwater No Flow Path Slight Bend Drop Inlet No Hydraulic Rating Good					
Installation Notes		Install Plan Sketch		Install Cross-Section Sketch	
Location in Pipe (ft) 1 Location from Manhole Upstream Sensors Antenna Surface Non-Paved Surface Signal Strength 100					
Post Installation Notes		Approvals			
Meter Type Telemetry Type Puck Installation Date 9/29/2016		Recommended by FSP		Client Approval No	

 The Choice for Collection System Solutions		Crist Engineers Bryant Flow Monitoring and Modeling		Site Name BR-07	
Inspected By T. Emmerling; F. Porchia		Project No. 18-3034-00		Site Code T	
Inspected Date/Time 9/21/2016 6:12 PM		18-3034-00		T	
System Information		Area Location Map		Area View Picture	
Target Pipe Dia. (in) 15 Municipality District Bryant Assigned Rain Gauge BRRG-02 Client Manhole # 60250 U/S Connecting MH I.D. 60265 System Characteristics: Residential - <input type="checkbox"/> Commercial - <input type="checkbox"/> Industrial - <input type="checkbox"/> P/S Influence No WWTP Influence No					
Location Information				Top View Picture	
Site Address 1140 Oak Glenn Lp Site Access Roadway, Low Traffic Longitude -92.4784 Latitude 34.6452 MH Type Poured Concrete Manhole Depth (ft) 11.95 Manhole Width (ft) 48 Elevated MH No Height Elevated (ft) Structural Integrity Safe		Access Notes In center of street at end of the road			
Site Information		Investigation Photo		Installation Photo	
Pipe Height (in) 14.31 Pipe Width (in) 14.31 Pipe Type Polyvinyl Chloride Pipe Shape Circular O2 20.9 LEL % 0 H2S 0 CO 0					
Hydraulic Information		Hydraulic Characteristics		Installation Notes	
Flow Depth (in) 1.81 Instant Velocity (fps) 1.9 Surge Evidence (ft) N/A Silt Type None Silt Depth (in) 0 Needs Cleaning No Backwater No Flow Path Slight Bend Drop Inlet No Hydraulic Rating Good		Install Plan Sketch		Install Cross-Section Sketch	
Installation Notes					
Location in Pipe (ft) 1 Location from Manhole Upstream Sensors Antenna Surface Paved Surface Signal Strength 100		This Meter Pipe Elevated Pipe		Flow Depth Pressure Sensor Velocity Sensor Ultra Sensor Pressure Clock Position: 7:00 Velocity Clock Position: 6:00	
Post Installation Notes		Approvals			
Meter Type Telemetry Type Puck Installation Date 9/29/2016		Recommended by FSP		Client Approval No	

APPENDIX C

RAIN GAUGE SITE SHEETS



APPENDIX D

DRY WEATHER UTILIZATION TABLE

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
4001	LS-05_WW	38.1	12	0.932	2.25	0.5407	24.03
4002	LS-05_WW	323.3	8	1.743	1.05	0.0261	2.49
4003	4002	250.7	8	1.843	1.08	0.0261	2.42
4004	4003	335.7	8	1.833	1.07	0.0072	0.67
4005	4004	360.6	8	4.176	1.62	0.0048	0.30
4006	4003	209.3	8	1.465	0.96	0.0174	1.81
4006A	4006	220.9	6	3.853	0.72	0.0013	0.18
4007	4006	261.1	8	0.309	0.44	0.0146	3.32
4008	4007	256	6	5.195	0.84	0.0014	0.17
4009	4009A	95.1	8	0.661	0.64	0.0112	1.75
4009A	4007	149.5	8	0.553	0.59	0.012	2.03
4010	4009	94.1	6	12.747	1.32	0.0035	0.27
4011	4010	224.9	6	2.583	0.59	0.0017	0.29
4012	4009	279.5	8	0.409	0.5	0.0072	1.44
4013	4012	140.3	6	5.656	0.88	0.0015	0.17
4014	4012	280.6	6	3.777	0.72	0.0035	0.49
4015	4014	237.5	6	2.854	0.62	0.0013	0.21
4016	4017	258	6	1.2	0.4	0.0015	0.38
4017	4005	265.4	6	0.928	0.35	0.0033	0.94
4018	4012	105.4	8	0.754	0.69	0.0013	0.19
4019	4019A	297.9	15	0.346	2.47	0.5408	21.89
4019A	4001	37.2	12	0.551	1.73	0.5408	31.26
4020	4019	295	15	0.188	1.82	0.5416	29.76
4021	4020	275.6	15	0.219	1.96	0.5433	27.72
4022	4021	257.6	15	0.671	3.44	0.5455	15.86
4023	4022	414.2	10	0.376	0.88	0.0779	8.85
4024	4023	418.8	10	0.823	1.3	0.0799	6.15
4026	4024	210.8	6	3.756	0.71	0.0034	0.48
4027	4026	164.4	6	7.573	1.02	0.0034	0.33
4028	4027	167.6	8	1.339	0.92	0.0031	0.34
4029	4028	93.8	8	5.61	1.88	0.0027	0.14
4029A	4029	146.8	6	6.036	0.91	0.0021	0.23
4029B	4029A	180.3	6	3.322	0.67	0.0012	0.18
4033	4024	305.6	10	1.311	1.64	0.0778	4.74
4034	4033	306.1	10	1.207	1.58	0.0784	4.96
4035	4035A	212.9	10	1.508	1.76	0.0804	4.57
4035A	4034	393.3	10	0.53	1.04	0.0789	7.59
4036	4035	208.6	10	0.446	0.96	0.0809	8.43
4037	4036	365.8	10	0.211	0.66	0.082	12.42
4038	4037	177.8	10	0.924	1.38	0.0892	6.46
4039	4038	108.1	10	0.657	1.16	0.0899	7.75
4040	4039	202.7	10	1.433	1.72	0.0908	5.28

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
4041	4041A	53.6	8	4.134	1.61	0.0194	1.20
4041A	4040	75.8	10	0.654	1.16	0.0913	7.87
4042	4041	295.3	8	2.169	1.17	0.0191	1.63
4043	4042	305.6	8	2.227	1.18	0.0191	1.62
4044	4043	265.3	8	3.022	1.38	0.0191	1.38
4045	4044	408.7	8	5.038	1.78	0.0191	1.07
4046	4045	154.6	8	0.358	0.47	0.0191	4.06
4047	4046	48.8	8	0.543	0.58	0.013	2.24
4048	4047	284.9	8	0.428	0.52	0.0127	2.44
4049	4048	195.4	6	5.202	0.84	0.0027	0.32
4049A	4049	50.3	6	1.301	0.42	0.0007	0.17
4050	4049	229.4	6	5.514	0.87	0.0017	0.20
4051	4048	333.4	8	0.365	0.48	0.0083	1.73
4052	4051	202.7	8	0.29	0.42	0.007	1.67
4054	4052	61.5	8	0.488	0.55	0.0063	1.15
4055	4054	187.9	6	6.802	0.96	0.0014	0.15
4056	4054	165.2	6	9.342	1.13	0.0043	0.38
4056A	4056	121.6	6	0.703	0.31	0.001	0.32
4057	4056	60.8	6	0.441	0.24	0.0033	1.38
4057A	4057	153.6	6	8.685	1.09	0.0007	0.06
4058	4057	155.4	6	8.617	1.08	0.0026	0.24
4059	4058	158	6	3.709	0.71	0.0016	0.23
4059B	4059A	50.8	6	1.644	0.47	0.0003	0.06
4060	4059	187.1	6	1.735	0.49	0.0006	0.12
4060A	4060	49.9	6	11.123	1.23	0.0003	0.02
4061	4046	7.5	8	10.987	2.64	0.0061	0.23
4062	4061	218.7	6	0.304	0.2	0.0057	2.85
4063	4062	180.9	6	1.77	0.49	0.0051	1.04
4063A	4063	200.6	6	2.731	0.61	0.001	0.16
4063B	4063	160.1	6	7.027	0.98	0.0034	0.35
4063C	4063B	34.1	6	12.566	1.31	0.0034	0.26
4063D	4063C	364.8	6	7.202	0.99	0.0021	0.21
4063E	4063D	92.8	6	2.592	0.59	0.0009	0.15
4063F	4063E	50	6	2.618	0.6	0.0003	0.05
4064	4071A	295.4	6	0.61	0.29	0.0635	21.90
4065	4064	300.7	6	7.7	1.02	0.0639	6.26
4066	4065	457.3	6	2.667	0.6	0.0609	10.15
4067	4066	271.2	6	0.72	0.31	0.0587	18.94
4067A	4067	134.7	6	1.896	0.51	0.0573	11.24
4068	4065	216.5	6	1.899	0.51	0.0021	0.41
4069	4068	262.4	6	1.183	0.4	0.0006	0.15
4070	4041A	484.2	10	0.722	1.22	0.073	5.98

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
4071	4071B	80.8	10	10.713	4.71	0.0056	0.12
4071A	4070	39.6	10	4.295	2.98	0.0757	2.54
4071B	4071A	121.5	10	3.598	2.73	0.0062	0.23
4072	4071	257.8	6	0.829	0.33	0.0053	1.61
4073	4072	131.8	6	0.835	0.34	0.0049	1.44
4074	4073	346.5	6	0.581	0.28	0.0043	1.54
4075	4074	324.5	8	0.501	0.56	0.0037	0.66
4076	4075	156.4	6	3.281	0.67	0.0015	0.22
4078	4075	289.1	6	5.813	0.89	0.0009	0.10
4080	4071A	268.6	6	3.485	0.69	0.0067	0.97
4081	4080	50	6	5.166	0.84	0.0066	0.79
4083	4082	188.6	6	0.294	0.2	0.0056	2.80
4084	4083	145.4	6	1.079	0.38	0.005	1.32
4085	4084	182.5	6	0.258	0.19	0.0044	2.32
4086	4085	310.1	6	0.351	0.22	0.0013	0.59
4086A	4086	168.3	6	0.146	0.14	0.0006	0.43
4087	4085	158	6	10.536	1.2	0.0022	0.18
4088	4087	404.6	6	1.749	0.49	0.0015	0.31
4092	4091	177.3	12	0.488	1.62	0.5087	31.40
4093	4093A	90.2	12	0.157	0.92	0.5096	55.39
4093A	4092	177.4	12	0.485	1.62	0.5094	31.44
4094	4094A	179.9	6	8.546	1.08	0.0009	0.08
4094A	4093	368.4	6	1.314	0.42	0.0014	0.33
4095	4093	262.1	12	0.071	0.61	0.5095	83.52
4096	4095	195.7	6	1.316	0.42	0.0097	2.31
4097	4096	356.8	6	0.575	0.28	0.0094	3.36
4098	4097	237.1	6	3.507	0.69	0.0007	0.10
4099	4097	226.3	6	2.497	0.58	0.0058	1.00
4100	4099	345.3	6	5.303	0.85	0.0046	0.54
4101	4100	171.9	6	1.699	0.48	0.0009	0.19
4102	4102A	150.7	6	2.716	0.61	0.0031	0.51
4102A	4100	25.1	6	2.697	0.61	0.0037	0.61
4103	4102	245.8	6	3.026	0.64	0.0018	0.28
4104	4103	191.4	6	4.429	0.78	0.0012	0.15
4107	4097	174.1	6	5.348	0.85	0.0016	0.19
4108	4107	130.1	6	6.268	0.92	0.0012	0.13
4109	4095	338.7	12	0.275	1.22	0.5085	41.68
4109A	4109	152.9	6	6.098	0.91	-0.0002	-0.02
4109B	4109A	151.4	6	10.029	1.17	0	0.00
4109C	4109B	175.4	6	6.026	0.91	0	0.00
4110	4109	287.5	12	0.17	0.95	0.5113	53.82
4111	4110	211.8	12	0.353	1.38	0.5133	37.20

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
4112	4111	178.8	8	0.249	0.39	0.0092	2.36
4113	4112	500.5	8	0.941	0.77	0.0073	0.95
4114	4113	379.4	8	1.216	0.87	0.0059	0.68
4115	4114	364.7	8	3.643	1.52	0.0046	0.30
4118	4111	136.5	12	0.353	1.38	0.5123	37.12
4119	4118	50.1	12	0.353	1.38	0.5131	37.18
4120	4119	127.4	6	3.867	0.73	0.0014	0.19
4121	4120	287	6	4.502	0.78	0.001	0.13
4122	4119	145.9	12	0.455	1.57	0.5129	32.67
4123	4122	211.1	12	0.647	1.87	0.5134	27.45
4124	4123	230.6	12	0.16	0.93	0.5138	55.25
4125	4124	419.4	12	0.231	1.11	0.5154	46.43
4126	4126A	138.9	8	3.102	1.4	0.0037	0.26
4126A	4125	151.3	8	1.503	0.97	0.0042	0.43
4127	4126	208.5	6	4.507	0.78	0.0009	0.12
4128	4126	173.7	6	2.593	0.59	0.0022	0.37
4129	4128	260	6	4.32	0.77	0.0011	0.14
4130	4128	101.4	6	0.988	0.37	0.0004	0.11
4132	4131	188.2	12	0.214	1.07	0.5223	48.81
4133	4132	248.4	12	0.417	1.5	0.5252	35.01
4134	4133	313.5	12	0.241	1.14	0.5081	44.57
4135	4133	189.4	10	1.951	2.01	0.0611	3.04
4136	4135	176.2	10	2.274	2.17	0.0374	1.72
4137	4135	141.7	8	2.121	1.16	0.023	1.98
4138	4137	172.9	6	0.696	0.31	0.0029	0.94
4139	4138	98.1	6	1.345	0.43	0.0006	0.14
4140	4138	288.6	6	2.657	0.6	0.0006	0.10
4141	4137	358.4	6	1.436	0.44	0.0194	4.41
4142	4138	193.8	6	5.079	0.83	0.001	0.12
4143	4141	171.9	6	0.551	0.27	0.0187	6.93
4144	4143	32.3	6	1.975	0.52	0.0184	3.54
4145	4144	193.9	6	1.372	0.43	0.0089	2.07
4146	4144	143.8	6	1.261	0.41	0.0091	2.22
4147	4146	153.4	6	0.928	0.35	0.0084	2.40
4149	4147	84.7	6	1.398	0.44	0.0077	1.75
4150	4149	402	6	3.743	0.71	0.0014	0.20
4151A	4151	95.5	6	7.024	0.98	0.001	0.10
4152	4151	427	6	1.451	0.44	0.0033	0.75
4153	4152	142.5	6	3.097	0.65	0.0007	0.11
4154	4152	219.3	6	2.271	0.56	0.001	0.18
4155	4154	262.8	6	2.344	0.56	0.0006	0.11
4156	4145	197.2	6	3.689	0.71	0.0033	0.46

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
4157	4145	224.2	6	0.401	0.23	0.0042	1.83
4158	4156	286.5	6	2.125	0.54	0.0023	0.43
4159	4158	47.2	6	14.081	1.39	0.0016	0.12
4160	4158	102.1	6	5.631	0.88	0.0007	0.08
4161	4159	140.8	6	2.77	0.61	0.0013	0.21
4162	4161	71.1	6	1.972	0.52	0.001	0.19
4163	4157	246.1	6	4.824	0.81	0.0029	0.36
4164	4163	111.7	6	2.198	0.55	0.0016	0.29
4165	4164	127.1	6	1.317	0.42	0.001	0.24
4166	4136	219.9	8	3.206	1.42	0.0028	0.20
4167	4166	287.5	8	1.372	0.93	0.0011	0.12
4168	4136	293.4	10	0.583	1.09	0.0334	3.06
4169	4168	66.2	10	0.256	0.72	0.0319	4.43
4171	4170	181.8	10	0.772	1.26	0.0316	2.51
4172	4171	194.9	8	1.853	1.08	0.005	0.46
4173	4172	140.7	8	1.08	0.82	0.0042	0.51
4174	4173	140	8	1.722	1.04	0.0017	0.16
4175	4173	201.4	8	2.321	1.21	0.0009	0.07
4176	4171	113	10	0.442	0.95	0.0263	2.77
4177	4176	287.3	10	1.084	1.49	0.0257	1.72
4178	4177	125.5	8	1.685	1.03	0.0047	0.46
4179	4178	385.7	8	1.137	0.84	0.0029	0.35
4180	4179	139.6	8	0.808	0.71	0.0016	0.23
4181	4177	211	10	0.379	0.88	0.0202	2.30
4182	4181	290.9	6	0.518	0.26	0.0053	2.04
4183	4182	289.3	6	1.515	0.45	0.0016	0.36
4184	4182	181.8	6	0.549	0.27	0.0024	0.89
4185	4184	282.7	6	0.785	0.33	0.0015	0.45
4186	4181	59.6	10	2.102	2.08	0.0143	0.69
4187	4186	150.5	10	1.191	1.57	0.0143	0.91
4188	4187	91.7	10	0.434	0.94	0.0139	1.48
4190	4188	128.6	8	0.726	0.67	0.0108	1.61
4191	4190	316.8	8	1.714	1.04	0.008	0.77
4192	4191	255.9	8	1.318	0.91	0.0024	0.26
4193	4191	261.1	8	2.888	1.35	0.004	0.30
4194	4193	276.9	8	0.388	0.49	0.0031	0.63
4194A	4194	220.3	8	2.737	1.31	0.001	0.08
4195	4194	203.2	8	1.168	0.86	0.0008	0.09
4196	4195	59.1	8	1.269	0.89	0.0008	0.09
4197	4196	279.9	8	0.468	0.54	0.0008	0.15
4198	4192	187.2	6	0.563	0.28	0.0006	0.21
4199	4192	191.6	8	0.308	0.44	0.0018	0.41

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
4199A	4199	184	8	0.204	0.36	0.0015	0.42
4199B	4199A	280.7	8	0.257	0.4	0.0009	0.23
4199C	4199B	61.7	8	0.642	0.63	0.0006	0.10
4199D	4199C	132.6	8	0.661	0.64	0.0003	0.05
4200	4190	250.1	6	2.753	0.61	0.0015	0.25
4201	4200	410	6	1.518	0.45	0.0012	0.27
4203	4202	173.5	6	0.532	0.27	0.0006	0.22
4204	4134	378.6	10	1.456	1.73	0.4473	25.86
4205	4204	293.1	10	0.381	0.88	0.4431	50.35
4206	4134	294	10	2.119	2.09	0.0905	4.33
4207	4204	229.6	6	1.166	0.4	0.0122	3.05
4208	4206	219.1	6	3.158	0.66	0.0014	0.21
4208A	4208	88.7	6	5.32	0.85	0.0004	0.05
4209	4206	180	6	1.807	0.49	-0.0008	-0.16
4210	4206	151	10	3.102	2.53	0.0908	3.59
4211	4210	42.7	10	5.607	3.41	0.0912	2.67
4212	4211	81.1	6	0.646	0.29	0.0011	0.38
4213	LS-16_WW	12.5	8	0.917	0.76	0.0169	2.22
4214	4213	160.2	8	0.997	0.79	0.0157	1.99
4215	4214	242.7	8	1.721	1.04	0.0042	0.40
4216	4215	337.6	8	3.371	1.46	0.0017	0.12
4217	4214	258.4	8	0.154	0.31	0.0098	3.16
4218	4217	253.3	8	1.578	1	0.0074	0.74
4219	4218	306.6	8	3.779	1.54	0.0052	0.34
4220	4219	179.2	8	1.267	0.89	0.0013	0.15
4221	4219	257.3	8	4.205	1.63	0.0018	0.11
4222	4221	9.4	8	2.234	1.19	0.0013	0.11
4223	4222	247.4	8	0.649	0.64	0.0003	0.05
4224	4211	136.5	10	0.791	1.27	0.0903	7.11
4225	4224	101.7	6	5.866	0.89	-0.0012	-0.13
4226	4224	36.8	10	1.065	1.48	0.0914	6.18
4227	4226	34.9	6	3.837	0.72	0.0013	0.18
4228	4227	152.2	6	4.361	0.77	0.0007	0.09
4229	4226	275.1	10	1.679	1.86	0.0911	4.90
4230	4229	231.3	10	0.985	1.42	0.0929	6.54
4232	4230	199	10	2.417	2.23	0.0937	4.20
4233	4232	189.6	10	2.743	2.38	0.0946	3.97
4234	4233	54.2	10	0.725	1.22	0.0952	7.80
4235	4234	210.9	6	6.814	0.96	0.0036	0.38
4236	4234	131.2	10	1.59	1.81	0.093	5.14
4237	4235	244.5	6	8.621	1.08	0.0018	0.17
4238	4236	296.5	8	1.73	1.04	0.0912	8.77

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
4239	4236	180.4	8	3.874	1.56	0.0035	0.22
4240	4239	234.8	8	3.445	1.47	0.0031	0.21
4241	4240	268.1	8	5.866	1.92	0.0027	0.14
4242	4241	406.4	8	0.705	0.66	0.0017	0.26
4243	4241	89.8	8	7.689	2.2	0.0007	0.03
4244	4238	192.1	8	2.186	1.17	0.0921	7.87
4245	4244	250.4	8	2.481	1.25	0.0924	7.39
4246	4245	277.8	8	1.608	1.01	0.0925	9.16
4247	4246	139.6	8	4.077	1.6	0.093	5.81
4248	4247	552.3	8	0.989	0.79	0.0924	11.70
4249	4248	406	8	6.869	2.08	-0.0046	-0.22
4250	4248	129.2	8	1.291	0.9	0.093	10.33
4252	4251	137.5	6	6.715	0.96	0.0042	0.44
4253	4252	281.4	6	0.909	0.35	0.0033	0.94
4254	4253	87.2	6	3.812	0.72	0.0026	0.36
4257	4256	140.6	6	1.661	0.47	0.0089	1.89
4258	4257	262.1	6	3.396	0.68	0.0053	0.78
4259	4258	271.5	6	2.632	0.6	0.0034	0.57
4259A	4259	73.2	6	3.077	0.65	0.0007	0.11
4260	4257	87.8	6	1.617	0.47	0.0033	0.70
4261	4260	279.4	6	0.702	0.31	0.0027	0.87
4262	4261	108.4	6	0.727	0.31	0.0009	0.29
4263	4262	127.4	6	5.644	0.88	0.0006	0.07
4266	4259	162.7	6	6.714	0.96	0.002	0.21
4267	4266	177.2	6	3.528	0.69	0.001	0.14
4268	4261	173.4	6	1.463	0.45	0.0012	0.27
4269	4268	260.7	6	7.768	1.03	0.0006	0.06
4270	4207	100	6	1.245	0.41	0.0065	1.59
4273	4207	301.1	6	2.253	0.55	0.0042	0.76
4274	4273	198	6	6.759	0.96	0.0038	0.40
4275	4274	333.6	6	9.899	1.16	0.0022	0.19
4276	4205	122.1	10	0.287	0.77	0.441	57.27
4277	4205	237.8	8	2.473	1.25	0.0076	0.61
4278	4277	97.1	8	4.646	1.71	0.0054	0.32
4279	4278	280.5	8	0.845	0.73	0.004	0.55
4280	4279	148	8	0.693	0.66	0.0015	0.23
4282	4276	81	8	6.264	1.99	0.0213	1.07
4283	4282	250.9	6	0.861	0.34	0.0213	6.26
4284	4283	96	6	0.842	0.34	0.0007	0.21
4285	4283	227.1	6	0.498	0.26	0.0189	7.27
4286	4285	161	6	0.835	0.34	0.0175	5.15
4287	4286	162.7	6	0.891	0.35	0.0162	4.63

City of Bryant
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Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
4288	4287	231.2	6	1.155	0.4	0.0148	3.70
4289	4288	92	6	0.833	0.34	0.0017	0.50
4290	4288	206.8	6	0.763	0.32	0.0125	3.91
4291	4290	291.8	6	1.971	0.52	0.0111	2.13
4292	4291	317.1	6	1.906	0.51	0.0085	1.67
4293	4292	281.3	6	2.163	0.54	0.0059	1.09
4294	4293	308.6	6	4.351	0.77	0.0036	0.47
4295	4294	189.8	6	5.113	0.83	0.0013	0.16
4296	4281	298.2	8	2.141	1.16	0.0178	1.53
4297	4296	20.6	6	1.733	0.48	0.0178	3.71
4298	4297	304.2	6	2.28	0.56	0.0072	1.29
4299	4298	296	6	0.376	0.22	0.0066	3.00
4301	4300	400.3	6	0.442	0.24	0.0054	2.25
4302	4301	204.3	6	2.707	0.61	0.0051	0.84
4303	4302	277.4	6	3.69	0.71	0.0041	0.58
4304	4303	264.4	6	1.206	0.4	0.0035	0.88
4305	4305A	450	6	3.947	0.73	0.002	0.27
4305A	4304	212.5	6	0.469	0.25	0.0031	1.24
4307	4297	175	6	5.169	0.84	0.0103	1.23
4308	4307	117	6	4.49	0.78	0.0007	0.09
4309	4307	125	6	1.688	0.48	0.0096	2.00
4310	4309	310.6	6	1.95	0.51	0.0044	0.86
4311	4309	131.3	6	7.157	0.99	0.005	0.51
4312	4311	312.5	6	4.592	0.79	0.0015	0.19
4313	4311	186.2	6	7.182	0.99	0.002	0.20
4314	4313	273	6	6.222	0.92	0.001	0.11
4315	4310	360.5	6	0.877	0.34	0.0041	1.21
4316	4315	298.1	6	0.623	0.29	0.0033	1.14
4317	4316	152.1	6	1.773	0.49	0.003	0.61
4318	4317	345.9	6	4.158	0.75	0.0011	0.15
4320	4319	191.8	8	5.62	1.88	0.0285	1.52
4321	4320	220.9	8	1.079	0.82	0.0279	3.40
4322	4321	198.2	8	0.216	0.37	0.0241	6.51
4323	4321	252.3	8	0.493	0.56	0.0019	0.34
4324	4323	198	8	0.562	0.59	0.0008	0.14
4325	4322	227.7	6	0.748	0.32	0.0235	7.34
4328	4319	303.3	10	0.722	1.22	0.4213	34.53
4329	4328	311.1	10	0.623	1.13	0.4217	37.32
4330	4329	240.4	10	0.709	1.21	0.2634	21.77
4331	4329	322	8	2.228	1.18	0.1599	13.55
4332	4331	506.8	8	0.62	0.62	0.1598	25.77
4333	4332	255.2	8	1.39	0.93	0.1602	17.23

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Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
4334	4332	348.2	8	0.585	0.6	0.0039	0.65
4335	4334	202.3	8	0.592	0.61	0.0024	0.39
4336	4335	420.9	8	1.328	0.91	0.0018	0.20
4338	4333	249.6	8	1.003	0.79	0.1574	19.92
4339	4338	228.7	8	1.641	1.02	0.1563	15.32
4340	4338	302.1	8	2.046	1.13	0.0052	0.46
4341	4340	291.9	8	0.449	0.53	0.0028	0.53
4342	4341	306.4	8	1.917	1.1	0.0016	0.15
4343	4339	81.7	8	3.647	1.52	0.0113	0.74
4344	4343	216.9	8	0.506	0.56	0.0061	1.09
4345	4343	290.3	8	0.287	0.42	0.0051	1.21
4346	4345	404.5	8	2.226	1.18	0.0028	0.24
4347	4346	343.7	8	1.241	0.88	0.0012	0.14
4348	4344	227.1	8	2.292	1.2	0.0055	0.46
4349	4348	581.3	8	0.436	0.52	0.0054	1.04
4350	4349	404.4	8	2.945	1.36	0.0027	0.20
4351	4350	170.8	8	5.031	1.78	0.0004	0.02
4352	4350	241.1	8	0.383	0.49	0.0016	0.33
4353	4352	317.6	8	0.331	0.45	0.0003	0.07
4354A	4354B	324.2	10	2.381	2.22	0.1942	8.75
4354B	4354C	277.4	10	0.403	0.91	0.1942	21.34
4354C	4354D	250	10	0.365	0.86	0.263	30.58
4354D	4330	247.8	10	0.88	1.35	0.263	19.48
4355	4354	320.9	10	0.439	0.95	0.1682	17.71
4357	4355	39.5	10	0.742	1.23	0.168	13.66
4358	4357	112.8	10	1.574	1.8	0.1654	9.19
4359	4358	152.1	8	0.813	0.71	0.1094	15.41
10070	10065	299.8	8	0.537	0.58	0.0432	7.45
10075	10080	233.8	6	0.844	0.34	0.0003	0.09
10080	10085	236.1	6	0.789	0.33	0.0008	0.24
10085	10095	302.2	6	4.204	0.76	0.0011	0.14
10090	10070	182.8	8	2.292	1.2	0.0432	3.60
10095	10090	403.7	8	1.732	1.04	0.0433	4.16
10100	10095	288.7	8	0.712	0.67	0.0413	6.16
10105	10100	313.9	8	0.535	0.58	0.0407	7.02
10110	10105	369.3	8	0.409	0.51	0.0222	4.35
10115	10105	187.3	6	3.157	0.65	0.0178	2.74
10120	10115	362.3	6	1.087	0.38	0.0064	1.68
10125	10115	358.8	6	0.507	0.26	0.0102	3.92
10130	10125	361	6	0.765	0.32	0.009	2.81
10135	10125	144.7	6	6.144	0.91	0.0003	0.03
10140	10130	358.4	6	0.547	0.27	0.0075	2.78

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
10145	10140	367.2	6	0.282	0.19	0.0051	2.68
10150	10145	364.2	6	0.896	0.35	0.0025	0.71
10155	10150	258.2	6	0.72	0.31	0.0011	0.35
10160	10120	360.1	6	0.759	0.32	0.0033	1.03
10165	10160	357.4	6	0.599	0.28	0.002	0.71
10170	10165	284.7	6	0.576	0.28	0.0003	0.11
10175	10110	184.9	8	0.487	0.55	0.0215	3.91
10180	10175	359.6	8	0.328	0.45	0.0205	4.56
10185	10180	342.9	8	0.547	0.58	0.0189	3.26
10186	10185	149.9	6	1.164	0.4	0.001	0.25
10190	10185	412.1	8	0.219	0.37	0.0163	4.41
10195	10190	371.5	8	0.657	0.64	0.0156	2.44
10200	10195	132.8	8	0.367	0.48	0.0143	2.98
10205	10200	217.4	8	0.374	0.48	0.0133	2.77
10210	10205	358.7	8	0.244	0.39	0.0121	3.10
10215	10205	250.5	8	1.47	0.96	0	0.00
10220	10210	243.6	8	1.283	0.9	0.001	0.11
10225	10210	198.3	6	0.781	0.32	0.0092	2.88
10230	10220	32.1	8	1.495	0.97	0	0.00
10235	10230	100.2	8	14.591	3.04	0	0.00
10240	10225	186.1	6	0.793	0.33	0.0084	2.55
10245	10240	203.5	6	1.346	0.43	0.0016	0.37
10250	10240	348.3	6	0.576	0.28	0.0061	2.18
10255	10250	125.4	6	0.281	0.19	0.0031	1.63
10260	10250	361	6	0.309	0.2	0.0021	1.05
10265	10260	256.4	6	1.131	0.39	0.0018	0.46
10275	10270	206.1	8	0.238	0.38	0.0122	3.21
10280	10270	243.5	8	0.126	0.28	0.0345	12.32
10285	10275	383.9	8	0.185	0.34	0.0108	3.18
10290	10285	459.8	8	0.405	0.5	0.0063	1.26
10295	10290	235.9	8	1.073	0.82	0.0018	0.22
10300	10280	350.1	8	0.201	0.35	0.0113	3.23
10305	10280	181.6	8	0.145	0.3	0.0201	6.70
10310	10300	234.7	8	0.588	0.61	0.0077	1.26
10315	10310	154.6	8	1.372	0.93	0.0059	0.63
10320	10315	240.9	8	1.029	0.8	0.0036	0.45
10325	10320	87.4	8	2.862	1.34	0.0018	0.13
10335	10330	175.6	8	0.601	0.61	0.0075	1.23
10340	10330	133.2	8	5.189	1.81	0.0119	0.66
10345	10335	117.1	8	0.985	0.79	0.0066	0.84
10350	10345	267.6	8	3.017	1.38	0.0044	0.32
10355	10350	241	8	3.226	1.43	0.0022	0.15

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
10360	10340	281.3	8	1.948	1.11	0.0022	0.20
10365	10340	299	8	3.626	1.51	0.008	0.53
10370	10365	375.2	8	1.532	0.98	0.0046	0.47
10375	10370	212.3	8	1.176	0.86	0.0017	0.20
10380	10375	132.2	8	2.656	1.29	0.0008	0.06
10385	10305	173.4	8	0.305	0.44	0.0191	4.34
10390	10385	97.3	8	0.844	0.73	0.0128	1.75
10395	10385	227.8	8	0.263	0.4	0.0078	1.95
10410	10390	318.2	8	0.314	0.44	0.0109	2.48
10430	10425	199.6	6	2.335	0.56	0.0092	1.64
10435	10425	176	6	1.649	0.47	0.002	0.43
10440	10430	275.7	6	1.471	0.45	0.0056	1.24
10445	10430	314.1	6	0.804	0.33	0.0016	0.48
10450	10440	341.2	6	0.691	0.31	0.0032	1.03
10465	10460	354.9	12	0.682	1.92	0.5517	28.73
10470	10465	198.5	8	1.884	1.09	0.0242	2.22
10475	10465	246	12	0.522	1.68	0.5368	31.95
10480	10470	304.5	8	4.118	1.61	0.0227	1.41
10485	10480	176	6	1.382	0.43	0.0003	0.07
10490	10480	242.8	8	1.757	1.05	0.0224	2.13
10495	10485	81	6	12.252	1.29	0.0003	0.02
10500	10490	160.5	8	5.088	1.79	0.0224	1.25
10505	10500	321.9	8	0.734	0.68	0.0218	3.21
10510	10505	349.1	8	0.169	0.32	0.0215	6.72
10515	10510	394.4	8	0.442	0.53	0.0185	3.49
10530	10525	341.4	6	1.632	0.47	0.001	0.21
10535	10525	422.6	8	0.621	0.62	0.0107	1.73
10550	10545	261	8	0.316	0.44	0.0013	0.30
10555	10475	239.3	12	0.412	1.49	0.5451	36.58
10560	10555	382	12	0.896	2.2	0.5601	25.46
10565	10560	340.4	12	1.063	2.4	0.5713	23.80
10570	10565	223.8	6	4.593	0.79	0.0094	1.19
10575	10565	234.8	8	2.929	1.36	0.3846	28.28
10580	10570	336.9	6	2.526	0.59	0.0027	0.46
10585	10580	303.1	6	3.851	0.72	0.0009	0.13
10590	10575	238.5	8	0.735	0.68	0.3839	56.46
10595	10590	306.9	6	1.749	0.49	0.0147	3.00
10600	10590	100.3	8	1.703	1.03	0.3743	36.34
10605	10595	165	6	0.176	0.15	0.0093	6.20
10610	10605	274.3	6	1.836	0.5	0.0071	1.42
10615	10610	77.6	6	1.43	0.44	0.006	1.36
10620	10615	157	6	1.166	0.4	0.0051	1.28

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
10625	10620	377.1	6	0.82	0.33	0.0022	0.67
10630	10620	496.7	6	2.395	0.57	0.0013	0.23
10635	10600	354.2	8	0.653	0.64	0.3127	48.86
10640	10600	144.3	8	1.038	0.81	0.0818	10.10
10645	10640	145	8	2.168	1.17	0.0068	0.58
10650	10640	285.2	8	1.639	1.02	0.0742	7.27
10655	10645	399.3	8	0.754	0.69	0.0032	0.46
10660	10655	267.1	8	0.569	0.6	0.0016	0.27
10665	10650	398.2	8	0.797	0.71	0.0711	10.01
10670	10635	46.6	6	16.938	1.52	0.0047	0.31
10675	10635	404.2	8	0.747	0.68	0.3094	45.50
10680	10670	336.6	6	1.241	0.41	0.0038	0.93
10690	10675	345.7	6	4.496	0.78	0.0038	0.49
10700	10675	131.5	8	2.183	1.17	0.0047	0.40
10705	10690	271.5	6	0.711	0.31	0.0014	0.45
10725	10710	385.6	6	0.187	0.16	0.0029	1.81
10730	10715	130.9	6	5.264	0.85	0.0093	1.09
10735	10715	243.5	8	0.152	0.31	0.2578	83.16
10740	10715	88.8	6	5.417	0.86	0.005	0.58
10745	10730	372.9	6	0.609	0.29	0.0061	2.10
10750	10745	359.3	6	1.057	0.38	0.0032	0.84
10755	10750	172.8	6	0.508	0.26	0.0015	0.58
10760	10735	123.1	8	1.176	0.86	0.2644	30.74
10765	10760	225.2	8	0.432	0.52	0.1159	22.29
10770	10720	353.2	6	0.552	0.27	0.0457	16.93
10775	10770	161.5	6	0.954	0.36	0.0432	12.00
10780	10775	130.6	6	0.679	0.3	0.039	13.00
10785	10775	240.7	6	0.825	0.33	0.0045	1.36
10795	10740	257.4	6	0.417	0.24	0.0028	1.17
10800	10765	252.9	8	0.279	0.42	0.1058	25.19
10805	10800	263.1	8	0.469	0.54	0.1093	20.24
10810	10805	239.9	8	0.7	0.66	0.1088	16.48
10815	10810	370.2	8	0.162	0.32	0.1086	33.94
10820	10815	309.3	8	0.573	0.6	0.1239	20.65
10825	10820	390.9	8	0.33	0.45	0.1291	28.69
10830	10825	247.8	6	1.933	0.51	-0.0021	-0.41
10835	10825	114.8	8	0.209	0.36	0.1391	38.64
10840	10835	238.3	6	2.501	0.58	0.0046	0.79
10845	10835	348.3	8	0.505	0.56	0.1447	25.84
10850	10835	145	6	2.456	0.58	-0.0026	-0.45
10860	10845	371.5	8	0.923	0.76	0.1294	17.03
10865	10845	361.8	6	0.453	0.25	0.0286	11.44

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Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
10870	10865	359.6	6	0.742	0.32	0.0235	7.34
10875	10870	209.7	6	1.588	0.46	0.0017	0.37
10880	10870	196.7	6	0.802	0.33	0.0202	6.12
10885	10860	247.7	8	1.332	0.91	-0.0036	-0.40
10890	10860	362.1	8	0.52	0.57	0.1306	22.91
10895	10890	365.5	8	0.697	0.66	0.1303	19.74
10900	10895	167	6	0.174	0.15	-0.0249	-16.60
10905	10895	249.7	6	1.039	0.37	0.0109	2.95
10910	10900	241.9	6	0.591	0.28	0.0013	0.46
10915	10900	179.4	6	0.702	0.31	0.0008	0.26
10930	10925	336.9	8	2.836	1.34	0.0224	1.67
10935	10925	294.2	8	3.588	1.5	0.0087	0.58
10940	10930	190	8	1.144	0.85	0.0199	2.34
10945	10940	263.8	8	0.334	0.46	0.0129	2.80
10950	10940	327.8	8	1.684	1.03	0.0047	0.46
10955	10945	106.2	8	0.789	0.7	0.0116	1.66
10960	10955	402.5	8	0.56	0.59	0.0026	0.44
10970	10935	252.8	8	2.763	1.32	0.005	0.38
10975	10970	156.7	8	1.436	0.95	0.0025	0.26
10980	10950	231.2	8	0.532	0.58	0.0016	0.28
10990	10700	51.8	8	16.038	3.19	0.0013	0.04
10995	10700	62.8	8	0.975	0.78	0.0022	0.28
11000	10995	130.6	8	1.101	0.83	0.0009	0.11
11010	11005	347.6	8	1.239	0.88	0.06	6.82
11015	11005	148.4	8	0.486	0.55	0.2144	38.98
11020	11010	140.9	8	0.616	0.62	0.0582	9.39
11025	11020	398.3	8	0.403	0.5	0.0576	11.52
11030	11025	93.7	8	0.484	0.55	0.0505	9.18
11035	11025	271.3	8	0.241	0.39	0.007	1.79
11040	11015	248	8	2.509	1.26	0.0327	2.60
11045	11040	220.8	8	0.848	0.73	0.0288	3.95
11050	11040	314.4	8	3.437	1.47	0.003	0.20
11055	11045	195.1	8	0.667	0.65	0.0287	4.42
11060	11055	217.1	8	2.161	1.17	0.0022	0.19
11065	11055	178.6	8	1.639	1.02	0.0267	2.62
11070	11065	136	8	0.095	0.24	0.0267	11.13
11075	11070	261.9	8	1.583	1	0.0346	3.46
11080	11075	206	8	0.114	0.26	0.0351	13.50
11085	11075	244.9	8	1.295	0.9	0.0029	0.32
11090	11085	181.1	8	0.811	0.71	0.0013	0.18
11095	11060	125.4	8	4.728	1.73	0.001	0.06
11100	11050	227.7	8	3.492	1.48	0.0019	0.13

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
11105	11100	358.3	6	0.315	0.21	0.001	0.48
11110	11030	150.1	8	2.841	1.34	0.0502	3.75
11115	11110	125.7	8	0.784	0.7	0.0059	0.84
11120	11110	119.7	8	1.93	1.1	0.0445	4.05
11125	11115	201.6	8	3.256	1.43	0.0053	0.37
11130	11125	284.9	8	1.107	0.83	0.0046	0.55
11135	11130	257.3	8	0.71	0.67	0.0028	0.42
11140	11135	86	8	0.872	0.74	0.0006	0.08
11145	11135	315.8	8	2.636	1.29	0.0012	0.09
11150	11145	98.8	8	1.788	1.06	0.0006	0.06
11155	11120	331.8	8	2.229	1.18	0.011	0.93
11160	11120	58.6	8	0.256	0.4	0.0336	8.40
11165	11155	254.4	8	4.463	1.68	0.0012	0.07
11170	11155	256.7	8	0.454	0.53	0.0083	1.57
11175	11160	302.5	8	0.874	0.74	0.0336	4.54
11180	11175	293.1	8	0.193	0.35	0.0333	9.51
11185	11180	403.8	6	1.875	0.5	0.0184	3.68
11190	11180	174.7	8	0.337	0.46	0.024	5.22
11195	11185	133	6	4.627	0.79	0.0184	2.33
11200	11185	175.9	6	1.069	0.38	0	0.00
11205	11195	170.2	6	1.633	0.47	0.0184	3.91
11215	11205	348.6	6	0.163	0.15	0.0184	12.27
11220	11205	194.5	8	4.302	1.65	0	0.00
11225	11220	97.8	6	1.542	0.46	0	0.00
11240	11235	197.8	6	1.036	0.37	0	0.00
11245	11190	185.3	8	1.219	0.87	0.024	2.76
11250	11245	263.3	8	3.472	1.48	0.024	1.62
11255	11250	384.7	6	0.71	0.31	0.0062	2.00
11260	11250	255.1	8	0.755	0.69	0.0179	2.59
11265	11255	255.2	6	0.421	0.24	0.0008	0.33
11275	11265	340	6	5.501	0.87	0.0005	0.06
11280	11275	294	6	2.023	0.52	0.0005	0.10
11285	11260	171.8	6	4.338	0.77	0.0129	1.68
11290	11260	350.5	8	1.243	0.88	0.005	0.57
11295	11285	299.9	6	1.997	0.52	0.0062	1.19
11300	11285	497.6	6	0.837	0.34	0.0066	1.94
11310	11295	267.4	6	0.881	0.34	0.0063	1.85
11315	11310	240.8	6	1.363	0.43	0.0063	1.47
11320	11300	307.1	6	1.404	0.44	0.0067	1.52
11325	11290	229.2	8	0.334	0.46	0.005	1.09
11330	11325	313.1	8	2.311	1.21	0.005	0.41
11345	11170	355.3	6	0.781	0.32	0.0068	2.13

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Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
11350	11170	299.6	6	6.228	0.92	0.0016	0.17
11355	11345	334.2	8	0.758	0.69	0.0068	0.99
11360	11355	133.6	6	1.268	0.41	0.0068	1.66
11365	11360	388.5	6	1.201	0.4	0.0068	1.70
11380	11375	323.8	6	0.404	0.23	0.0003	0.13
11385	11380	123.1	6	0.896	0.35	0.0003	0.09
11390	11385	73.9	6	1.39	0.43	0.0003	0.07
11395	11215	281.7	6	2.819	0.62	0	0.00
11400	11215	166.8	6	3.49	0.69	0.0184	2.67
11405	11400	153	6	0.645	0.29	0.0184	6.34
11410	11405	356	6	0.406	0.23	0.0184	8.00
11415	11410	306.4	6	1.669	0.48	0.0184	3.83
11420	11415	457	6	0.373	0.22	0	0.00
11425	11420	281.7	6	5.646	0.88	0	0.00
11430	11035	133.9	8	5.612	1.88	0.0064	0.34
11435	11430	166.2	8	0.974	0.78	0.0064	0.82
11440	11435	175.5	8	0.363	0.48	0	0.00
11445	11435	222.6	6	3.572	0.7	0.0064	0.91
11450	11440	289.1	8	0.509	0.56	0	0.00
11455	11445	221.2	6	1.62	0.47	0.0064	1.36
11460	11455	176	6	0.589	0.28	0.0064	2.29
11470	11465	289.4	8	0.378	0.49	0.0057	1.16
11475	11465	284.8	6	1.762	0.49	0.0046	0.94
11480	11465	293.6	8	0.718	0.67	0.0156	2.33
11485	11480	275.8	6	5.092	0.83	0.0042	0.51
11490	11485	240.1	6	2.858	0.62	0.0014	0.23
11495	11480	356.4	6	0.584	0.28	0.0094	3.36
11500	11495	304.2	6	0.533	0.27	0.0067	2.48
11505	11500	194.2	6	0.559	0.27	0.0047	1.74
11510	11505	399.1	6	0.938	0.36	0.002	0.56
11515	11475	276.5	6	0.448	0.25	0.002	0.80
11520	11470	120.8	8	0.529	0.57	0.0007	0.12
11525	11470	280.8	6	0.378	0.23	0.004	1.74
11530	11525	93.4	6	0.378	0.23	0.002	0.87
11535	11530	182.8	6	0.797	0.33	0.0016	0.48
11540	11541	56.5	8	2.202	1.18	0.001	0.08
11541	12660	372.6	8	0.532	0.58	0.0029	0.50
12005	12000	162.7	6	5.275	0.85	0.0052	0.61
12010	12005	148.2	6	3.773	0.72	0.0026	0.36
12015	12005	82.2	6	6.98	0.98	0.0016	0.16
12020	12010	242	6	0.706	0.31	0.0019	0.61
12025	12020	206.5	6	0.311	0.2	0.0011	0.55

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
12030	12015	132.6	6	3.226	0.66	0.0008	0.12
12035	12000	409.8	10	1.124	1.52	0.2679	17.63
12040	12035	60.6	6	10.718	1.21	0.0007	0.06
12045	12035	79.4	10	0.482	0.99	0.2746	27.74
12050	12045	250.5	10	0.525	1.04	0.277	26.63
12055	12050	273.7	10	0.417	0.92	0.2876	31.26
12060	12055	312	10	0.952	1.4	0.2992	21.37
12065	12055	190.4	6	4.422	0.78	0.0059	0.76
12070	12065	208.2	6	1.359	0.43	0.004	0.93
12075	12070	188	6	2.376	0.57	0.0019	0.33
12080	12070	300	6	0.681	0.3	0.0014	0.47
12085	12075	330.7	6	1.467	0.45	0.0011	0.24
12090	12060	99.7	8	1.481	0.96	0.1846	19.23
12095	12060	281.5	10	1.414	1.71	0.1214	7.10
12100	12060	197.3	6	6.755	0.96	0.0045	0.47
12105	12090	327.3	8	4.643	1.71	0.1828	10.69
12110	12105	261.4	6	4.469	0.78	0.1814	23.26
12115	12095	304	10	1.077	1.49	0.1136	7.62
12120	12095	147.8	6	6.715	0.96	0.0039	0.41
12125	12120	68.6	6	6.234	0.92	0.0032	0.35
12130	12125	373.7	6	4.127	0.75	0.0018	0.24
12135	12115	85.2	10	1.556	1.79	0.1108	6.19
12140	12115	146.8	6	5.958	0.9	0.0029	0.32
12150	12135	260	10	4.078	2.9	0.1104	3.81
12155	12140	116.1	6	4.713	0.8	0.0025	0.31
12160	12155	348.3	6	3.051	0.64	0.0014	0.22
12165	12150	162.7	8	1.174	0.86	0.1104	12.84
12170	12165	280.6	8	0.606	0.62	0.1101	17.76
12175	12170	209	8	2.156	1.17	0.1091	9.32
12180	12170	344.7	8	3.123	1.4	-0.0043	-0.31
12185	12175	146.1	8	2.272	1.2	0.1092	9.10
12190	12185	339.3	8	1.455	0.96	0.1089	11.34
12195	12190	272.9	8	0.524	0.57	-0.0142	-2.49
12200	12195	236.2	8	0.364	0.48	0.0006	0.13
12205	12100	372.9	6	3.686	0.71	0.0018	0.25
12220	12215	62.3	8	2.171	1.17	0.0082	0.70
12225	12220	190.3	8	0.634	0.63	0.0078	1.24
12230	12225	143.1	6	2.173	0.54	0.0036	0.67
12235	12225	320.3	6	1.352	0.43	0.003	0.70
12240	12230	378	6	1.01	0.37	0.002	0.54
12245	12235	54.6	6	3.384	0.68	0.0026	0.38
12250	12245	80.3	6	0.988	0.37	0.0022	0.59

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Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
12255	12250	246.9	6	2.586	0.59	0.0015	0.25
12280	12275	303.8	6	3.975	0.74	0.0033	0.45
12285	12280	266.3	6	2.072	0.53	0.0015	0.28
12295	12290	218.2	10	0.229	0.68	0.0309	4.54
12300	12295	83	8	2.282	1.2	0.0161	1.34
12305	12295	120.4	10	0.539	1.05	0.0148	1.41
12306	12305	164.4	10	0.539	1.05	0.0145	1.38
12310	12300	213.2	8	1.882	1.09	0.0157	1.44
12315	12310	312.4	8	1.36	0.92	0.0142	1.54
12320	12315	203.7	6	4.367	0.77	0.005	0.65
12325	12315	47	8	3.052	1.39	0.0088	0.63
12330	12320	301.6	6	1.717	0.48	0.0039	0.81
12335	12330	345.5	6	3.598	0.7	0.0018	0.26
12345	12325	224.2	8	1.239	0.88	0.0077	0.88
12350	12345	202.6	6	4.717	0.8	0.005	0.63
12370	12360	221.3	8	4.23	1.63	0.0008	0.05
12375	12370	213.3	8	1.27	0.89	0.0008	0.09
12380	12375	280.5	8	2.319	1.21	0.0008	0.07
12385	12350	62.8	6	2.114	0.54	0.0042	0.78
12390	12385	227.1	6	3.975	0.74	0.0035	0.47
12395	12390	323.6	6	2.534	0.59	0.0018	0.31
12400	12306	177	6	4.508	0.78	0.0056	0.72
12405	12306	132.7	10	0.539	1.05	0.0086	0.82
12410	12400	63.1	6	4.384	0.77	0.0048	0.62
12415	12410	248.5	6	0.913	0.35	0.0039	1.11
12420	12415	252.1	6	3.473	0.69	0.0017	0.25
12425	12405	72.7	10	0.539	1.05	0.0086	0.82
12430	12425	303.9	10	0.373	0.87	0.0079	0.91
12435	12430	238.9	8	0.494	0.56	0.0046	0.82
12440	12430	18.8	8	1.073	0.82	0.0023	0.28
12445	12440	196.1	8	1.229	0.88	0.0019	0.22
12450	12445	278	6	2.016	0.52	0.0008	0.15
12455	12445	24.8	8	1.291	0.9	0.0008	0.09
12460	12455	148.6	8	2.571	1.27	0.0004	0.03
12465	12435	247.4	8	1.052	0.81	0.0032	0.40
12470	12465	304.1	8	2.569	1.27	0.0025	0.20
12485	12480	97.5	8	5.195	1.81	0.2664	14.72
12490	12485	207.2	8	2.623	1.29	-0.0072	-0.56
12495	12485	212.3	8	4.105	1.61	0.2758	17.13
12500	12495	202.6	8	3.101	1.4	-0.0087	-0.62
12505	12495	290	8	3.508	1.49	0.2849	19.12
12510	12505	238.6	8	1.962	1.11	-0.0103	-0.93

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Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
12515	12505	306.3	8	3.741	1.54	0.2906	18.87
12525	12530	201.8	8	6.62	2.04	0.0029	0.14
12530	12535	153.6	8	4.897	1.76	0.0051	0.29
12535	12540	171	8	7.185	2.13	0.0051	0.24
12536	12535	224.5	8	7.956	2.24	0	0.00
12540	12545	160.5	8	3.865	1.56	0.008	0.51
12545	12555	56.3	8	0.712	0.67	0.0083	1.24
12550	12540	367.9	8	4.941	1.77	0.0022	0.12
12560	12555	85.5	8	1.809	1.07	0.0016	0.15
12565	12560	297.1	8	1.956	1.11	0.0013	0.12
12570	12565	85.1	8	6.832	2.08	0	0.00
12580	12575	10.1	8	0.413	0.51	0.0311	6.10
12585	12575	136.5	8	3.995	1.59	0.0521	3.28
12590	12580	148.1	8	0.572	0.6	0.0308	5.13
12595	12590	285.3	8	0.346	0.46	0.0212	4.61
12600	12590	330	8	2.583	1.28	0.0084	0.66
12605	12595	202	8	0.346	0.46	0.0081	1.76
12610	12595	357.5	8	1.766	1.05	0.0123	1.17
12615	12605	120.2	8	0.346	0.46	0.0074	1.61
12620	12615	131.4	8	1.311	0.91	0.0056	0.62
12625	12615	118.3	8	1.862	1.08	0.0013	0.12
12630	12620	154	8	0.286	0.42	0.0012	0.29
12635	12620	209.1	8	0.334	0.46	0.0037	0.80
12640	12635	162.6	8	0.315	0.44	0.0034	0.77
12645	12640	280.6	8	1.193	0.87	0.0022	0.25
12650	12610	384.7	8	0.737	0.68	0.0109	1.60
12655	12650	174.3	8	0.901	0.75	0.0034	0.45
12660	12650	334	8	1.134	0.84	0.0056	0.67
12665	12655	250.3	8	0.288	0.42	0.0019	0.45
12670	12660	257.7	8	0.395	0.5	0.0004	0.08
12680	12600	302.6	8	1.752	1.05	0.005	0.48
12685	12680	296.8	8	1.239	0.88	0.0023	0.26
12690	12585	293	8	2.073	1.14	0.0198	1.74
12695	12585	189.8	8	0.948	0.77	0.0317	4.12
12700	12690	390.2	8	1.145	0.85	0.0161	1.89
12705	12700	381	8	0.331	0.45	0.0127	2.82
12710	12705	182.1	8	0.626	0.63	0.001	0.16
12715	12705	156.4	8	0.658	0.64	0.0106	1.66
12720	12715	299	8	0.31	0.44	0.009	2.05
12725	12720	300.6	8	1.989	1.12	0.0065	0.58
12730	12725	300.2	8	1.617	1.01	0.0039	0.39
12735	12730	313.4	8	1.829	1.07	0.0016	0.15

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
12740	12695	134.9	8	1.379	0.93	0.0305	3.28
12745	12740	325.8	8	0.681	0.65	0.0287	4.42
12750	12745	244.9	8	0.318	0.45	0.0255	5.67
12755	12750	81.4	8	0.937	0.77	0.0131	1.70
12760	12750	119.6	8	1.112	0.84	0.0112	1.33
12765	12755	326	8	0.726	0.67	0.0107	1.60
12766	12765	132.7	8	1.713	1.04	0.0009	0.09
12780	12775	298.1	8	0.756	0.69	0.0048	0.70
12785	12780	298.8	8	0.868	0.74	0.002	0.27
12790	12785	301	8	0.672	0.65	0.0003	0.05
12795	12760	98.3	8	0.417	0.51	0.0099	1.94
12800	12795	65.2	8	0.399	0.5	0.0091	1.82
12805	12800	324.2	8	0.799	0.71	0.0071	1.00
12810	12805	286.9	8	1.768	1.05	0.0048	0.46
12815	12810	289.7	8	0.477	0.55	0.002	0.36
12825	12820	224.9	8	4.942	1.77	0.0013	0.07
20010	20005	124.1	24	0.741	12.54	1.9992	15.94
20015	20010	327.3	24	0.08	4.1	1.1249	27.44
20020	20015	378.3	24	0.012	1.59	1.1228	70.62
20025	20020	137.5	8	5.324	1.83	0.0046	0.25
20030	20020	294.9	24	0.041	2.91	1.1201	38.49
20035	20025	312.8	8	1.611	1.01	0.0046	0.46
20040	20035	134.4	8	0.64	0.63	0.0033	0.52
20045	20040	144.1	8	4.058	1.6	0.0016	0.10
20050	20040	237.6	8	1.137	0.84	0.0014	0.17
20055	20050	193.8	8	0.107	0.26	0.0003	0.12
20060	20030	267.5	24	0.185	6.25	1.1213	17.94
20065	20060	334.6	24	0.185	6.25	1.0735	17.18
20095	20095A	151.3	24	0.16	5.8	0.8482	14.62
20110	20105	326.3	12	0.089	0.69	0.2012	29.16
20115	20110	401.7	12	0.089	0.69	0.2023	29.32
20120	20115	396.7	12	0.089	0.69	0.2041	29.58
20125	20120	318.6	12	0.185	1	0.2064	20.64
20130	20125	371.6	12	0.344	1.36	0.2076	15.26
20135	20130	189	12	0.344	1.36	0.208	15.29
20140	20135	400	12	0.172	0.96	0.1874	19.52
20145	20140	257.8	12	0.147	0.89	0.1886	21.19
20150	20145	202.9	12	0.241	1.14	0.1899	16.66
20155	20150	310.7	12	0.167	0.95	0.1908	20.08
20160	20155	12.2	12	0.427	1.52	0.1925	12.66
20165	20160	335.2	12	0.427	1.52	0.1265	8.32
20170	20160	342.4	10	0.633	1.14	0.0669	5.87

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Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
20175	20475	191.1	12	0.676	1.91	0.1284	6.72
20180	20175	372.3	12	0.529	1.69	0.1288	7.62
20185	20180	280.7	8	0.81	0.71	0.0699	9.85
20190	20180	113.5	12	0.035	0.43	0.0579	13.47
20195	20190	208.4	12	0.45	1.56	0.057	3.65
20200	20195	340.7	12	0.27	1.21	0.0503	4.16
20205	20200	271.2	8	0.951	0.77	0.0003	0.04
20210	20200	156.7	12	1.793	3.12	0.0498	1.60
20215	20205	339.4	8	1.211	0.87	0.0003	0.03
20220	20215	167.4	8	1.574	0.99	0	0.00
20225	20220	81.9	8	0.935	0.77	0	0.00
20230	20210	346.3	12	0.235	1.12	0.0465	4.15
20235	20185	184.8	8	0.81	0.71	0.0706	9.94
20240	20185	346.9	8	2.025	1.13	0	0.00
20245	20240	306.3	8	2.608	1.28	0	0.00
20250	20235	296.2	8	1.439	0.95	0.0711	7.48
20255	20250	390.2	8	3.771	1.54	0.0715	4.64
20260	20255	354.1	8	1.252	0.89	0.0553	6.21
20265	20260	311.6	8	0.88	0.74	0.0558	7.54
20270	20265	154.8	8	1.765	1.05	0.0565	5.38
20275	20270	115.8	8	1.385	0.93	0.0569	6.12
20285	20275	205.6	8	0.071	0.21	0.0571	27.19
20290	20285	66.2	8	0.146	0.3	0.0233	7.77
20295	20285	239.1	8	0.903	0.75	0.0666	8.88
20300	20290	162.6	8	0.146	0.3	0.0194	6.47
20305	20295	193.5	8	0.059	0.19	0.0708	37.26
20310	20280	314.6	8	0.375	0.48	0	0.00
20315	20230	248.3	12	0.148	0.89	0.0465	5.22
20320	20315	250	12	0.276	1.22	0.0465	3.81
20325	20320	144.6	12	1.324	2.68	-0.0001	0.00
20330	20320	124.6	8	3.5	1.49	0.0411	2.76
20335	20330	359.6	8	2.927	1.36	0.0411	3.02
20340	20335	150.7	8	3.531	1.49	0.0359	2.41
20345	20340	364.9	8	2.904	1.35	0.0359	2.66
20350	20345	218.5	8	0.092	0.24	0.0359	14.96
20355	20350	101.8	8	0.442	0.52	-0.0001	-0.02
20360	20365	24.9	8	1.901	1.09	0.0074	0.68
20365	20170	333	10	0.228	0.68	0.0669	9.84
20370	20360	386.7	8	0.329	0.45	0.0074	1.64
20380	20385	238.5	8	0.559	0.59	0.0164	2.78
20385	20365	165.8	10	0.685	1.19	0.0596	5.01
20390	20380	103.7	8	0.751	0.69	0.0164	2.38

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Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
20395	20390	225.7	8	0.751	0.69	0.0164	2.38
20400	20395	92.5	8	0.165	0.32	0.0164	5.13
20405	20400	241.4	8	0.539	0.58	0.0164	2.83
20410	20405	197.5	8	0.302	0.43	0	0.00
20415	20385	82.2	10	0.685	1.19	0.0432	3.63
20420	20415	309.1	10	0.179	0.6	0.0432	7.20
20425	20420	211.8	8	0.084	0.23	0.0432	18.78
20430	20425	358.2	8	0.162	0.32	0.0021	0.66
20435	20425	120.2	8	2.284	1.2	0.0261	2.18
20440	20430	106.6	8	1.533	0.98	0.0019	0.19
20445	20440	59.4	8	2.935	1.36	0.0019	0.14
20450	20435	112	8	1.182	0.86	0.0261	3.03
20455	20450	244.2	8	1.215	0.87	0.0261	3.00
20460	20455	240.4	8	0.812	0.71	0.0261	3.68
20465	20460	215.1	8	0.525	0.57	0.0261	4.58
20470	20465	77.3	8	2.678	1.3	0	0.00
20475	20165	402.2	12	0.427	1.52	0.1274	8.38
20480	20325	123.9	12	0.9	2.21	0	0.00
20485	20480	236.3	12	0.628	1.84	0	0.00
20490	20485	157.7	8	6.686	2.05	0	0.00
20495	20485	53.7	8	0.827	0.72	0	0.00
20500	20300	102.5	8	0.156	0.31	0.0185	5.97
20505	20500	340.5	8	0.156	0.31	0.0185	5.97
20510	20505	197.6	8	1.335	0.92	0.0185	2.01
20515	20510	45.9	8	1.335	0.92	0.0185	2.01
20520	20515	329.9	8	0.635	0.63	0.0116	1.84
20525	20515	206.2	8	1.077	0.82	0.0069	0.84
20530	20525	168.9	8	1.908	1.1	0.0069	0.63
20535	20530	386.2	8	0.292	0.43	0.0069	1.60
20540	20535	293.4	8	1.114	0.84	0.0069	0.82
20545	20520	258	8	0.138	0.29	0.0116	4.00
20550	20545	226.8	8	1.076	0.82	0.0116	1.41
20555	20550	134.4	8	0.268	0.41	0.0094	2.29
20560	20555	92	8	1.304	0.91	0.0094	1.03
20565	20555	60.8	6	2.566	0.59	0	0.00
20570	20560	68.5	8	1.606	1	0.0094	0.94
20575	20570	330.3	8	0.335	0.46	0.0094	2.04
20580	20575	170.3	8	0.695	0.66	0.0094	1.42
20585	20575	231	8	1.049	0.81	0	0.00
20590	20580	66	8	0.561	0.59	0.0094	1.59
20595	20590	240.5	8	0.539	0.58	0.009	1.55
20600	20095	341	24	0.133	5.29	0.8491	16.05

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
20605	20600	401.3	24	0.042	2.96	0.8507	28.74
20610	20605	351.9	24	0.058	3.47	0.8543	24.62
20615	20610	186.9	24	2.745	24.16	0.8601	3.56
20620	20615	54	24	1.556	18.18	0.8607	4.73
20625	20620	313.6	24	0.338	8.45	0.8607	10.19
20630	20625	297.8	24	0.18	6.16	0.8611	13.98
20635	20630	256.2	24	0.197	6.44	0.8619	13.38
20640	20635	58.2	24	0.732	12.46	0.863	6.93
20645	20640	300.3	24	0.851	13.44	0.8631	6.42
20650	20645	321.2	24	0.345	8.54	0.8633	10.11
20655	20650	371.7	24	0.008	1.28	0.8638	67.48
20660	20655	32.3	8	0.186	0.34	0.0113	3.32
20665	20655	219.9	24	1.343	16.89	0.8562	5.07
20670	20660	298.8	8	2.239	1.19	0.0036	0.30
20675	20665	245.2	24	1.756	19.32	0.8566	4.43
20685	20680	131.4	8	2.413	1.23	0.007	0.57
20690	20685	102.2	8	1.307	0.91	0.007	0.77
20695	20690	82	6	0.505	0.26	0	0.00
20700	20690	397.6	8	6.079	1.96	0.0056	0.29
20705	20700	249.6	8	0.935	0.77	0.0035	0.45
20710	20705	381.2	8	0.162	0.32	0.0014	0.44
20715	20670	301.1	8	5.559	1.87	0.0032	0.17
20720	20715	275.1	8	0.935	0.77	0.002	0.26
20725	20720	270.3	8	0.424	0.51	0.0008	0.16
20730	20675	258.9	24	0.545	10.75	0.8563	7.97
20735	20730	348.7	24	0.01	1.39	0.8566	61.63
20740	20735	544.7	24	1.431	17.43	0.8595	4.93
20745	20740	24.9	24	3.836	28.57	0.8604	3.01
20750	20745	362	24	0.387	9.04	0.8604	9.52
20755	20750	399.4	24	0.002	0.62	0.8612	138.90
20760	20755	398.8	24	0.172	6.03	0.8656	14.35
20765	20760	403.4	24	0.553	10.83	0.8763	8.09
20770	20765	91	24	0.553	10.83	0.8793	8.12
20775	20770	18	18	6.672	17.64	0.8797	4.99
20780	20775	242.5	15	0.146	1.6	0.8581	53.63
20785	20775	389.9	8	3.058	1.39	0.0397	2.86
20790	20785	297.2	8	0.58	0.6	0.0402	6.70
20795	20790	430.7	6	3.081	0.65	0.0014	0.22
20800	20790	167.5	8	1.403	0.94	0.0404	4.30
20805	20800	118.4	8	1.757	1.05	0.0031	0.30
20810	20800	46	8	0.565	0.59	0.0379	6.42
20815	20805	224	8	2.529	1.26	0.0018	0.14

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
20820	20815	304.7	8	0.465	0.54	0.0008	0.15
20825	20810	99.4	8	0.485	0.55	0.0379	6.89
20830	20825	170.8	8	0.345	0.46	0.0052	1.13
20835	20825	342.8	8	0.171	0.33	0.0342	10.36
20840	20830	399.7	8	0.167	0.32	0.0024	0.75
20845	20840	187.6	8	0.608	0.62	0.001	0.16
20855	20850	91.4	8	1.663	1.02	0.0012	0.12
20870	20865	125.2	8	1.459	0.96	0.0018	0.19
20875	20780	302.6	8	1.606	1	0.0949	9.49
20880	20780	247.2	15	1.42	5.01	0.7705	15.38
20885	20880	315.3	15	0.297	2.29	0.7688	33.57
20890	20885	162.1	8	1.092	0.83	0	0.00
20895	20885	214.7	15	0.03	0.71	0.7689	108.30
20900	20895	370.2	15	0.511	3	0.7685	25.62
20905	20900	181.3	15	0.511	3	0.7685	25.62
20910	20875	248.7	8	0.874	0.74	0.095	12.84
20915	20910	348.3	8	1.255	0.89	0.0951	10.69
20920	20915	355.9	8	2.212	1.18	0.0953	8.08
20925	20920	403.4	8	2.12	1.16	0.0946	8.16
20930	20925	40.2	8	4.023	1.59	0.0075	0.47
20935	20930	116.2	8	0.291	0.43	0.0041	0.95
20940	20935	383.7	8	0.412	0.51	0.0027	0.53
20950	20945	306.5	8	1.084	0.82	0.0514	6.27
20955	20950	298.5	8	0.866	0.74	0.0542	7.32
20960	20950	330.5	8	3.693	1.53	0.0043	0.28
20965	20960	357.1	8	3.874	1.56	0.0003	0.02
20970	20955	291.3	8	0.966	0.78	0.0667	8.55
20975	20970	200.6	8	1.09	0.83	0.0861	10.37
20980	20975	254.4	8	3.301	1.44	0.0168	1.17
20985	20980	61.3	8	3.694	1.53	0.0078	0.51
20990	20985	150	8	1.067	0.82	0.0072	0.88
20995	20990	41.8	8	1.862	1.08	0.0072	0.67
21000	20995	142.3	8	0.29	0.42	0.0072	1.71
21005	21000	433	8	5.096	1.79	0.004	0.22
21015	21010	366.1	8	2.942	1.36	0.0007	0.05
30005	20905	72.1	15	1.325	4.84	0.7685	15.88
30010	30005	391.1	15	0.929	4.05	0.768	18.96
30015	30010	267	10	0.25	0.71	0.7287	102.63
30020	30010	301.5	8	0.282	0.42	0.0417	9.93
30025	30015	417.5	8	2.397	1.23	0.011	0.89
30030	30020	227.6	8	4.513	1.69	0.0411	2.43
30031	30030	174.9	8	2.034	1.13	0.0371	3.28

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
30035	30025	357.8	8	0.42	0.51	0.0056	1.10
30040	30031	259.8	8	0.597	0.61	0.0357	5.85
30041	30040	122.9	8	3.927	1.57	0.0288	1.83
30042	30041	340.8	8	0.972	0.78	0.0288	3.69
30043	30042	314.2	8	0.538	0.58	0.0288	4.97
30044	30043	112.3	8	1.356	0.92	0.0058	0.63
30046	30044	156.7	8	1.666	1.02	0.0024	0.24
30047	30046	283.9	8	4.602	1.7	0.0024	0.14
30050	30040	333	8	2.46	1.24	0.0069	0.56
30055	30050	145.8	8	2.415	1.23	0.0062	0.50
30060	30055	142.6	8	0.992	0.79	0.0048	0.61
30070	30071	398	10	0.215	0.66	0.7211	109.26
30071	30015	376.4	10	0.215	0.66	0.7206	109.18
30075	30070	216.3	10	0.215	0.66	0.728	110.30
30076	30075	184.5	10	0.215	0.66	0.7184	108.85
30080	30075	402.9	8	0.3	0.43	0.0209	4.86
30085	30080	400.7	8	0.73	0.68	0.0039	0.57
30090	30080	210.4	8	0.759	0.69	0.0135	1.96
30095	30090	350.1	8	4.336	1.65	0.0039	0.24
30100	30095	188	8	4.519	1.69	0.0022	0.13
30105	30090	365	8	0.392	0.49	0.0052	1.06
30110	30105	187.2	8	4.566	1.7	0.0019	0.11
30115	30120	266	6	6.307	0.93	0.0039	0.42
30120	30076	499	10	0.215	0.66	0.7324	110.97
30125	30120	243.5	12	0.215	1.07	0.7853	73.39
30145	30125	288	12	0.091	0.69	0.5801	84.07
30150	30145	157.2	12	1.015	2.35	0.6388	27.18
30155	30150	255.4	10	2.671	2.35	0.6471	27.54
30160	30155	152.7	10	1.865	1.96	0.6462	32.97
30165	30170	242.2	8	2.374	1.22	0.0037	0.30
30170	30172	103.7	8	0.78	0.7	0.012	1.71
30172	30160	274.1	8	0.78	0.7	0.0155	2.21
30185	30190	98.8	8	1.965	1.11	-0.0261	-2.35
30190	30200	107.7	10	0.092	0.43	0.6464	150.33
30195	30196	91.7	10	0.586	1.1	0.6925	62.95
30196	30190	150.2	10	0.588	1.1	0.661	60.09
30220	30190	343.6	8	2.954	1.36	0.024	1.76
30225	30220	338.9	8	1.66	1.02	0.0144	1.41
30230	30225	347.6	8	1.465	0.96	0.0107	1.11
30235	30230	273.2	6	1.713	0.48	0.0083	1.73
30240	30235	280.8	6	3.383	0.68	0.0061	0.90
30245	30240	280.1	6	0.643	0.29	0.0038	1.31

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
30250	30245	279.3	6	1.802	0.49	0.0012	0.24
30255	30195	181.6	10	1.17	1.55	0.7003	45.18
30256	30255	82.9	8	4.953	1.77	-0.0083	-0.47
30257	30256	296.4	8	2.176	1.17	0.0004	0.03
30260	30255	14	10	1.113	1.51	0.7021	46.50
30265	30260	117.5	10	0.979	1.42	0.7026	49.48
30270	30265	183	10	1.12	1.52	0.7047	46.36
30275	30270	87.6	10	1.253	1.61	0.7071	43.92
30280	30275	183.8	10	0.545	1.06	0.7066	66.66
30281	30280	30.9	6	11.242	1.24	0.006	0.48
30285	30280	415.5	10	0.804	1.29	0.7079	54.88
30286	30285	212.3	8	1.438	0.95	0.5794	60.99
30287	30286	237.4	6	2.294	0.56	0.5799	103.55
30288	30286	94.8	6	1.114	0.39	0.0333	8.54
30290	30285	66.5	10	2.271	2.16	0.2058	9.53
30310	30305	308.7	8	1.733	1.04	0.0029	0.28
30315	30310	354.7	6	2.452	0.58	0.0011	0.19
30320	30325	203.1	8	1.433	0.95	0.0012	0.13
30325	30330	191.8	8	4.305	1.65	0.0023	0.14
30330	30345	263.6	8	0.83	0.72	0.0083	1.15
30335	30330	167.3	6	1.364	0.43	0.0038	0.88
30340	30335	181.6	6	0.575	0.28	0.0025	0.89
30345	30355	278.7	8	0.537	0.58	0.012	2.07
30350	30345	254.6	6	1.293	0.42	0.0016	0.38
30355	30360	211.2	8	0.119	0.27	0.0273	10.11
30360	30361	92.9	8	2.787	1.33	0.0295	2.22
30370	30361	308.3	8	1.537	0.98	0.1658	16.92
30415	30355	139.2	8	0.664	0.64	0.0147	2.30
30430	30370	304.4	8	1.633	1.01	0.1641	16.25
30500	30501	245.1	8	1.318	0.91	0.0015	0.16
30505	30510	392.5	8	4.128	1.61	0.0053	0.33
30510	30511	234.8	8	0.133	0.29	0.0065	2.24
30511	30515	382.2	8	2.737	1.31	0.0086	0.66
30515	30520	401.2	8	0.279	0.42	0.0192	4.57
30520	30525	396.2	8	0.395	0.5	0.0271	5.42
30525	30530	381	8	2.631	1.29	0.0382	2.96
30530	30535	389.6	8	1.203	0.87	0.0438	5.03
30535	30540	12.6	10	1.441	1.72	0.4222	24.55
30540	30541	144.1	10	1.441	1.72	0.4228	24.58
30541	30125	384.6	10	1.441	1.72	0.4302	25.01
30545	30550	301.8	8	3.893	1.57	0.002	0.13
30550	30560	352.2	8	0.493	0.55	0.004	0.73

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
30555	30560	149.1	8	7.9	2.23	0.0019	0.09
30560	30515	237.1	8	3.064	1.39	0.0078	0.56
30564	30570	300.7	8	3.346	1.45	0.0046	0.32
30565	30564	300.3	8	0.212	0.36	0.002	0.56
30570	30575	312.3	8	0.47	0.54	0.0066	1.22
30575	30525	240	8	1.547	0.99	0.0085	0.86
30580	30585	321.3	8	0.819	0.72	0.0023	0.32
30585	30520	145.7	8	5.843	1.92	0.0055	0.29
30595	30600	171.2	8	1.499	0.97	0.004	0.41
30600	30605	353.5	8	1.762	1.05	0.0073	0.70
30605	30541	221	8	4.076	1.6	0.0099	0.62
30610	30615	205.2	8	0.327	0.45	0.003	0.67
30615	30620	341.6	8	0.526	0.57	0.0056	0.98
30620	30630	340.9	8	2.298	1.2	0.0094	0.78
30625	30630	88.9	8	2.471	1.25	0.0012	0.10
30630	30635	273	8	0.234	0.38	0.012	3.16
30640	30645	340.2	8	2.841	1.34	0.0022	0.16
30645	30650	338.4	8	0.324	0.45	0.0048	1.07
30650	30655	335.7	8	0.61	0.62	0.0077	1.24
30655	30656	59.9	8	3.823	1.55	0.0088	0.57
30656	30657	67.5	8	0.325	0.45	0.0092	2.04
30657	30200	81.6	8	1.615	1.01	0.0175	1.73
30670	30675	79.4	8	1.617	1.01	0.0024	0.24
30671	30670	285.4	8	0.341	0.46	0.0017	0.37
30675	30680	245.8	8	1.586	1	0.0046	0.46
30680	30685	295.8	8	0.801	0.71	0.0065	0.92
30685	30695	409.9	8	0.464	0.54	0.0107	1.98
30690	30685	226.2	8	1.239	0.88	0.0021	0.24
30695	30700	273.9	8	0.394	0.5	0.0125	2.50
30700	30705	109.9	8	1.379	0.93	0.0137	1.47
30705	30715	382.6	8	0.524	0.57	0.0159	2.79
30714	30705	164.1	8	0.528	0.57	0.0018	0.32
30715	30720	209.7	8	0.713	0.67	0.0177	2.64
30720	30725	308.2	8	0.498	0.56	0.0189	3.38
30740	30745	418.9	6	2.847	0.62	0.0022	0.35
30747	30815	205.4	8	3.192	1.42	0.0139	0.98
30750	30747	199	8	4.215	1.63	0.002	0.12
30755	30760	271	6	2.878	0.63	0.0016	0.25
30760	30855	192.6	6	3.924	0.73	0.0038	0.52
30765	30825	319.9	6	6.312	0.93	0.0014	0.15
30770	30790	340.1	6	3.886	0.73	0.0014	0.19
30775	30770	110.7	6	4.721	0.8	0.0014	0.18

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
30790	30795	288.6	6	4.207	0.76	0.0053	0.70
30795	30800	382.5	6	1.199	0.4	0.0075	1.88
30800	30805	384.9	6	0.865	0.34	0.0097	2.85
30805	30810	148.6	6	10.46	1.19	0.0105	0.88
30810	30835	307.8	8	1.229	0.88	0.0327	3.72
30815	30810	268.7	8	2.339	1.21	0.0214	1.77
30820	30815	99.4	8	0.458	0.53	0.0062	1.17
30825	30790	139.5	6	2.957	0.63	0.0025	0.40
30835	LS-08_WW	3.6	8	15.553	3.14	0.0419	1.33
30850	30835	282.2	6	4.938	0.82	0.0064	0.78
30855	30850	123.2	6	0.465	0.25	0.0056	2.24
30925	30925A	146.1	10	0.446	0.96	0.3258	33.94
30926	30925	332.4	8	0.291	0.43	0.0304	7.07
30927	30926	148	8	0.197	0.35	0.0298	8.51
30928	30927	23.7	8	5.589	1.88	0.0103	0.55
30929	30928	52.4	8	3.398	1.46	0.01	0.68
30931	30929	390	8	1.53	0.98	0.0087	0.89
30932	30931	207.2	8	2.778	1.32	0.0066	0.50
30933	30932	381	8	1.825	1.07	0.0044	0.41
30934	30933	347.5	8	1.876	1.09	0.0018	0.17
30937	30948	295.4	8	1.055	0.81	0.0011	0.14
30938	30927	248.9	8	0.959	0.78	0.0195	2.50
30939	30938	144	8	1.425	0.95	0.0047	0.49
30941	30939	271.4	8	1.728	1.04	0.0041	0.39
30942	30941	69.2	8	0.947	0.77	0.0032	0.42
30943	30942	254.8	8	0.769	0.69	0.0012	0.17
30944	30946	190.5	8	0.529	0.57	0.0028	0.49
30946	30949	293.4	8	0.559	0.59	0.0075	1.27
30947	30946	110.1	8	6.586	2.04	0.0037	0.18
30948	30947	213.2	8	3.627	1.51	0.0026	0.17
30951	30938	87.1	8	0.702	0.66	0.0145	2.20
30952	30937	179.4	8	0.599	0.61	0.0006	0.10
30953	30951	308.6	8	0.332	0.45	0.0109	2.42
31100	31105	223.5	8	2.599	1.28	0.0116	0.91
31105	31115	192.8	10	0.446	0.96	0.3028	31.54
31110	31270	133	8	0.419	0.51	0.0019	0.37
31115	33100	99.5	10	0.446	0.96	0.2994	31.19
31130	31100	202.2	8	4.823	1.74	0.0026	0.15
31150	32015	382.9	8	0.55	0.59	0.0442	7.49
31155	31105	88.5	8	0.446	0.53	0.2982	56.26
31160	31200	148.4	8	1.794	1.06	0.0047	0.44
31165	31160	120.7	8	4.179	1.62	0.0022	0.14

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
31170	31160	84.6	8	0.98	0.78	0.0021	0.27
31175	31170	304.6	8	2.669	1.3	0.001	0.08
31180	31185	293.7	8	3.002	1.38	0.0006	0.04
31190	31200	108.7	8	0.276	0.41	0.0009	0.22
31195	31200	122.5	8	0.325	0.45	0.0012	0.27
31200	31100	381.2	8	0.901	0.75	0.0074	0.99
31210	31281	198.9	8	0.245	0.39	0.3693	94.69
31215	31220	201.5	8	5.663	1.89	0.0004	0.02
31220	31225	207	8	4.484	1.68	0.0014	0.08
31225	31230	113.9	8	1.971	1.11	0.0029	0.26
31230	31150	311.6	8	0.55	0.59	0.0174	2.95
31235	31230	73.1	8	0.55	0.59	0.0142	2.41
31240	31235	322.4	8	0.55	0.59	0.0138	2.34
31245	31240	298.8	8	4.172	1.62	0.0019	0.12
31260	31240	356.3	8	0.55	0.59	0.0109	1.85
31265	31125	206.2	8	7.025	2.11	0.0024	0.11
31270	31125	183	8	0.708	0.67	0.0024	0.36
31275	31285	179.5	8	0.847	0.73	0.3146	43.10
31280	31275	184.5	8	0.245	0.39	0.3192	81.85
31281	31280	193.8	8	0.245	0.39	0.3371	86.44
31285	31155	341.7	8	0.446	0.53	0.3003	56.66
32005	32010	380.7	8	2.551	1.27	0.0028	0.22
32010	31150	378.9	8	0.428	0.52	0.0238	4.58
32015	32020	288.3	8	1.463	0.96	0.0468	4.88
32020	32025	429.4	8	0.441	0.52	0.0563	10.83
32035	32040	188.6	8	0.566	0.59	0.0627	10.63
32040	32045	365.7	8	0.566	0.59	0.0647	10.97
32045	32050	372.2	8	0.467	0.54	0.0676	12.52
32050	32055	326.1	8	1.405	0.94	0.0704	7.49
32055	32065	392	8	2.988	1.37	0.1057	7.72
32100	32110	360.2	6	1.79	0.49	0.0008	0.16
32101	32100	190.2	6	4.292	0.76	0	0.00
32110	32010	376	8	1.495	0.97	0.0183	1.89
32130	32020	211.5	8	3.286	1.44	0.0068	0.47
32135	32130	299	8	3.178	1.42	0.0046	0.32
32138	32137	104.3	6	3.468	0.69	0	0.00
32139	32138	101.3	6	3.945	0.73	0	0.00
32145	32140	73.8	6	1.22	0.41	0.0031	0.76
32150	32110	256.2	8	0.756	0.69	0.0167	2.42
32151	32150	505.7	8	2.565	1.27	0.0153	1.20
32155	32150	282.7	8	2.428	1.24	0.0013	0.10
32156	32155	122.4	8	3.194	1.42	0	0.00

City of Bryant
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Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
32157	32156	168.7	8	0.897	0.75	0	0.00
32160	32155	141.8	8	0.817	0.72	0	0.00
32161	32160	243.4	8	3.36	1.46	0	0.00
32162	32161	196.6	8	5.304	1.83	0	0.00
32170	32160	282.2	8	0.599	0.61	0	0.00
32171	32170	211.4	8	6.58	2.04	0	0.00
32175	32170	281	8	0.828	0.72	0	0.00
32185	32035	309.2	8	0.816	0.72	0.0036	0.50
32190	32210	390.6	8	0.936	0.77	0.0062	0.81
32195	32190	335.2	8	3.877	1.56	0.0044	0.28
32210	32230	396.7	8	0.419	0.51	0.0086	1.69
32230	32245	333.3	8	6.452	2.02	0.0262	1.30
32235	32236	701.5	8	0.695	0.66	0.0021	0.32
32240	32245	323.6	8	0.434	0.52	0.008	1.54
32245	32055	337.6	8	2.825	1.33	0.0359	2.70
33105	33110	246.4	8	0.663	0.64	0.0039	0.61
33110	33115	247.8	8	0.892	0.75	0.0059	0.79
33115	33116	207.7	8	1.726	1.04	0.0077	0.74
33116	33117	159.7	8	7.245	2.14	0.013	0.61
33120	33116	374.4	8	1.252	0.89	0.005	0.56
33122	33123	482.8	10	0.446	0.96	0.2986	31.10
33123	30925	374.9	10	0.446	0.96	0.2959	30.82
33124	33128	118.6	8	1.918	1.1	0.0045	0.41
33125	33120	271.7	8	0.724	0.67	0.0029	0.43
33126	33128	275.9	8	1.448	0.95	0.0017	0.18
33127	33128	107.8	8	0.538	0.58	0.0053	0.91
33128	33122	116.8	8	0.374	0.48	0.0117	2.44
33129	34005	338.2	10	0.446	0.96	0.3365	35.05
33131	33132	18.4	10	0.953	1.4	0.338	24.14
33132	33133	100.7	10	0.953	1.4	0.34	24.29
33133	34010	163	10	0.953	1.4	0.3394	24.24
33134	30535	147.7	10	1.441	1.72	0.3783	21.99
34000	33129	16.2	8	8.339	2.3	0.0038	0.17
34005	33131	91.6	10	0.953	1.4	0.3379	24.14
34010	34015	89.1	10	0.953	1.4	0.3406	24.33
34015	34020	119.7	10	0.953	1.4	0.3404	24.31
34020	33134	156.6	10	0.953	1.4	0.342	24.43
34025	34020	330.1	8	1.03	0.8	0.0009	0.11
34030	33134	236	8	1.708	1.04	0.0353	3.39
34035	34040	185.1	8	0.213	0.36	0.0192	5.33
34045	34035	164.6	8	2.059	1.14	0.0175	1.54
4326	4325	123	8	1.155	0.85	0.0225	2.65

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
4343A	4339	149	8	1.738	1.05	0.1515	14.43
4356	4354A	243.3	8	0.832	0.72	0.0259	3.60
4360	4358	104.5	8	1.95	1.11	0.0034	0.31
4361	4358	323.9	8	1.046	0.81	0.0674	8.32
4362	4359	225.7	8	1.833	1.07	0.1092	10.21
4363	4361	327.1	8	0.997	0.79	0.0662	8.38
4364	4363	241.7	8	0.499	0.56	0.0662	11.82
4365	4364	233.4	6	1.535	0.46	0.0375	8.15
4366	4365	233.5	6	1.251	0.41	0.0375	9.15
4367	4366	254.6	6	1.473	0.45	0.0176	3.91
4368	4367	318.9	6	1.166	0.4	0.0162	4.05
4369	4366	175	6	1.884	0.51	0.0338	6.63
4370	4369	141	6	0.725	0.31	0.0328	10.58
4371	4370	239.4	6	1.19	0.4	0.0195	4.88
4372	4371	60.2	6	0.679	0.3	0.0059	1.97
4373	4372	299.5	6	0.65	0.3	0.0053	1.77
4374	4364	260.5	8	0.464	0.54	0.029	5.37
4375	4370	229.9	8	0.952	0.77	0.0103	1.34
4376	4371	78.9	6	3.492	0.69	0.0123	1.78
4376A	4376	183.2	6	3.656	0.71	0.003	0.42
4377	4374	202.1	8	0.349	0.47	-0.0001	-0.02
4378	4377	139.8	8	1.048	0.81	0	0.00
4379	4378	239.7	8	2.694	1.3	0	0.00
4380	4379	190.3	8	0.539	0.58	0	0.00
4381	4374	218.9	8	0.563	0.59	0.0288	4.88
4381A	4381	220.9	8	0.251	0.39	0.0003	0.08
4382	4381	226.4	8	1.194	0.87	0.0284	3.26
4383	4382	96.2	8	0.935	0.77	0.025	3.25
4384	4383	206.2	6	0.654	0.3	0.0202	6.73
4385	4384	113.9	6	3.227	0.66	0.0202	3.06
4386	4385	82.5	6	1.39	0.43	0.0202	4.70
4387	4375	216	8	1.087	0.83	0.0083	1.00
4388	4387	337	6	3.282	0.67	0.0027	0.40
4389	4376	187.2	6	1.941	0.51	0.0087	1.71
4390	4389	127.3	6	0.95	0.36	0.0073	2.03
4391	4390	205.9	6	3	0.64	0.0033	0.52
4392	4387	203.3	6	0.744	0.32	0.0033	1.03
4393	4392	170.8	6	0.575	0.28	0.0013	0.46
4394	4360	135.9	8	2.728	1.31	0.0034	0.26
4395	4394	310.6	8	1.293	0.9	0.0032	0.36
4396	4362	356.5	8	0.681	0.65	0.1044	16.06
4397	4396	437.6	8	0.434	0.52	0.1034	19.88

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
4398	4397	385.5	8	0.465	0.54	0.1013	18.76
4399	4398	168.7	8	0.46	0.54	0.0978	18.11
4401	4398	173	8	0.409	0.51	0.0036	0.71
4402	4401	100.5	8	0.514	0.57	0.0019	0.33
4406	4399	331.2	8	1.058	0.81	0.0976	12.05
4407	4406	338.5	8	1.613	1.01	0.0818	8.10
4408	4407	250.1	8	1.331	0.91	0.0817	8.98
4409	4408	246.3	8	1.983	1.12	0.0812	7.25
4411	4411A	38	8	1.15	0.85	0.0596	7.01
4411A	4410	292.6	8	0.986	0.79	0.0812	10.28
4411B	4411	235.4	8	2.17	1.17	0.0072	0.62
4412	4411	248.1	8	1.997	1.12	0.0524	4.68
4413	4412	131.5	8	1.494	0.97	0.002	0.21
4414	4413	212.1	6	5.201	0.84	0.0017	0.20
4414A	4414	100	8	0.473	0.54	0	0.00
4415	4414	283.2	6	4.108	0.75	0.0015	0.20
4416	4412	335.5	8	1.472	0.96	0.0505	5.26
4417	4416	350.1	8	0.663	0.64	0.0257	4.02
4418	4417	225.1	8	1.025	0.8	0.0257	3.21
4419	4418	218.9	8	1.855	1.08	0.0033	0.31
4419A	4419	306.3	8	0.598	0.61	0.0016	0.26
4420	4420A	166.9	8	5.568	1.87	0.0116	0.62
4420A	4416	198.3	8	2.864	1.34	0.0145	1.08
4421	4420	78	8	2.1	1.15	0.0082	0.71
4422	4421	189.8	8	0.708	0.67	0.0082	1.22
4423	4422	116.7	8	3.594	1.51	0.0082	0.54
4424	4423	198.1	8	2.659	1.29	0.0082	0.64
4425	4420	52.5	8	5.196	1.81	0.0034	0.19
4426	4425	61.9	8	0.887	0.75	0.0026	0.35
4427	4411A	222.9	8	2.192	1.17	0.0171	1.46
4428	4427	198.1	8	1.807	1.07	0.0094	0.88
4429	4428	204.2	8	2.686	1.3	0.0073	0.56
4430	4406	81.8	6	7.304	1	0.0168	1.68
4431	4430	393.8	6	0.805	0.33	0.0014	0.42
4432	4431	262.9	6	2.527	0.59	0.0014	0.24
4432A	4432	110.4	6	2.519	0.58	0.0014	0.24
4433	4430	91.3	6	1.112	0.39	0.0157	4.03
4434	4433	197.9	6	3.752	0.71	0.0157	2.21
4435	4434	372.1	6	1.653	0.47	0.0155	3.30
4436	4435	307	6	1.858	0.5	0.0155	3.10
4436A	4436	37.5	6	5.36	0.85	0.0098	1.15
4437	4343A	291.8	8	0.622	0.62	0.1504	24.26

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Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
4438	4437	146	8	1.087	0.83	0.1524	18.36
4439	4438	489.6	8	1.012	0.8	0.0029	0.36
4440	4439	176.5	6	0.777	0.32	0.0025	0.78
4441	4438	271	8	0.38	0.49	0.1507	30.76
4442	4441	333.6	8	1.515	0.98	0.1555	15.87
4443	4442	122.1	6	6.164	0.92	-0.0005	-0.05
4444	4442	177.3	8	2.08	1.14	0.0442	3.88
4445	4444	227.2	8	0.417	0.51	0.0437	8.57
4446	4445	242.8	8	0.372	0.48	0.0381	7.94
4447	4446	198.5	8	0.337	0.46	0.0379	8.24
4448	4447	70.9	8	0.447	0.53	0.0379	7.15
4449	4448	247.9	8	0.353	0.47	0.0027	0.57
4450	4449	255.3	8	2.245	1.19	0.0013	0.11
4451	4450	56.2	8	2.4	1.23	0.0013	0.11
4452	4451	330.1	8	1.374	0.93	0.001	0.11
4453	4452	402.1	8	0.799	0.71	0.001	0.14
4454	4453	73.2	8	0.262	0.4	0.001	0.25
4455	4454	243.4	8	0.452	0.53	0.001	0.19
4456	4455	180.4	8	0.453	0.53	0.001	0.19
4457	4456	116.8	8	0.473	0.54	0.001	0.19
4459	4449	163	8	0.827	0.72	0.0014	0.19
4460	4459	302.3	8	0.266	0.41	0.0014	0.34
4461	4460	269.7	8	1.502	0.97	0.0006	0.06
4462	4461	329.8	8	0.049	0.17	0	0.00
4463	4442	275.2	8	1.665	1.02	0.1162	11.39
4464	4463	231.7	8	0.473	0.54	0.0755	13.98
4465	4464	37.5	8	1.576	1	0.1114	11.14
4466	4465	247.9	8	4.369	1.66	0.0144	0.87
4467	4465	175	8	0.091	0.24	0.0357	14.88
4468	4467	212.5	8	4.201	1.63	0.0268	1.64
4469	4468	342	8	3.293	1.44	0.025	1.74
4470	4469	212.7	8	2.116	1.15	0.0021	0.18
4471	4463	352.1	8	1.909	1.1	0.0472	4.29
4472	4471	196	8	1.605	1	0.0163	1.63
4473	4472	229.7	8	1.512	0.97	0	0.00
4474	4473	229.3	8	1.611	1.01	0	0.00
4475	4474	381.3	8	0.407	0.5	0	0.00
4476	4472	400.3	8	1.798	1.06	0.016	1.51
4477	4476	239.7	8	0.491	0.55	0.0107	1.95
4478	4477	116.8	8	3.898	1.57	0.0107	0.68
4479	4478	89.6	8	3.435	1.47	0.0063	0.43
4480	4479	195.8	8	3.726	1.53	0.0007	0.05

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Dry Weather Utilization

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4481	4479	181.8	8	1.015	0.8	0.0056	0.70
4482	4476	500	8	2.27	1.2	0.0049	0.41
4483	4482	364.7	8	0.44	0.52	0.0019	0.37
4484	4483	291.7	8	2.66	1.29	0.0006	0.05
4485	4484	319.8	8	1.1	0.83	0	0.00
4486	4482	336.7	8	1.997	1.12	0.003	0.27
4487	4486	131.2	8	2.446	1.24	0.0028	0.23
4488	4487	74.4	8	2.923	1.36	0.0022	0.16
4489	4488	277.9	8	1.174	0.86	0.0002	0.02
4490	4486	367.2	8	1.84	1.08	0.0002	0.02
4493	4492	333.6	8	3.682	1.52	0.0006	0.04
4494	4356	235.6	8	0.769	0.69	0.0053	0.77
4495	4356	65.1	8	0.882	0.74	0.0205	2.77
4496	4495	16.7	8	0.497	0.56	0.0205	3.66
4497	4496	254.2	6	1.873	0.5	0.0061	1.22
4498	4496	210.9	8	1.256	0.89	0.0142	1.60
4499	4498	291.7	8	1.306	0.91	0.0135	1.48
4500	4499	56.3	8	1.174	0.86	0.0135	1.57
4501	4500	233.4	8	0.563	0.59	0.0131	2.22
4502	4501	210.4	8	0.585	0.6	0.0085	1.42
4503	4333	116.8	8	0.347	0.46	0.0042	0.91
4504	4503	73.4	8	0.837	0.72	0.0035	0.49
4505	4504	249	8	0.964	0.78	0.0035	0.45
4506	4505	343.8	8	1.146	0.85	0.0035	0.41
4507	4506	227.2	8	1.191	0.86	0.0021	0.24
4508	4326	159.6	8	1.053	0.81	0.0212	2.62
4509	4508	228.1	8	1.276	0.9	0.0095	1.06
4510	4509	335.7	8	2.371	1.22	0.0069	0.57
4511	4510	365.3	8	4.354	1.66	0.0038	0.23
4512	4511	146.1	8	3.324	1.45	0.0012	0.08
4513	4508	81.7	8	1.789	1.06	0.0114	1.08
4514	4513	370.7	8	1.663	1.02	0.0095	0.93
4515	4514	312.6	8	3.237	1.43	0.0059	0.41
4516	4515	262.9	8	2.985	1.37	0.0032	0.23
4517	4516	157.1	8	4.588	1.7	0.001	0.06
4518	4517	79.2	8	3.771	1.54	0.0007	0.05
4519	4400	131.4	6	5.441	0.86	0.0053	0.62
4520	4519	110.3	6	1.922	0.51	0.0015	0.29
4521	4400	220.9	6	1.774	0.49	0.0053	1.08
4522	4521	417.1	8	3.629	1.51	0.0022	0.15
4523	4522	237.5	8	3.474	1.48	0.0019	0.13
4524	4523	277.2	8	4.181	1.62	0.001	0.06

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4525	4523	206.9	8	4.162	1.62	0.001	0.06
4526	4525	201.3	8	6.02	1.95	0.0006	0.03
4527	4400	425.5	8	1.197	0.87	0.0587	6.75
4528	4527	489.5	8	1.324	0.91	0.0587	6.45
4529	4528	181.9	8	2.452	1.24	0.006	0.48
4530	4529	242.1	8	0.164	0.32	0.0056	1.75
4531	4530	298.3	8	1.619	1.01	0.005	0.50
4532	4532A	100.3	8	0.55	0.59	0.001	0.17
4532A	4531	325.2	8	3.222	1.43	0.0037	0.26
4533	4528	117.9	8	0.944	0.77	0.0532	6.91
4534	4533	56.9	8	1.715	1.04	0.0531	5.11
4535	4534	125	8	0.616	0.62	0.0531	8.56
4536	4535	335.4	8	1.323	0.91	0.0127	1.40
4537	4536	407.8	8	4.675	1.72	0.0122	0.71
4538	4537	169.6	8	0.245	0.39	0.0115	2.95
4539	4538	175	8	0.562	0.59	0.0116	1.97
4540	4535	86.7	8	0.745	0.68	0.0486	7.15
4541	4540	196.2	8	2.97	1.37	0.016	1.17
4542	4541	109.1	8	4.26	1.64	0.0159	0.97
4543	4542	315.5	8	2.322	1.21	0.0158	1.31
4544	4543	287.7	8	0.595	0.61	0.0154	2.52
4546	4545	241.7	8	0.552	0.59	0.0013	0.22
4547	4546	256.3	8	1.569	0.99	0.0007	0.07
4548	4544	336.1	8	3.083	1.39	0.0144	1.04
4549	4548	248.3	8	0.548	0.59	0.0134	2.27
4550	4549	102.1	8	0.132	0.29	0	0.00
4551	4549	210.5	8	0.197	0.35	0.0134	3.83
4552	4551	131.3	8	0.587	0.61	0.0134	2.20
4553	4552	108.5	8	0.475	0.54	0.0134	2.48
4554	4553	329	8	0.44	0.52	0.001	0.19
4555	4554	213.3	8	0.385	0.49	0.001	0.20
4556	4540	241.1	8	0.123	0.28	0.0328	11.71
4557	4556	239.7	8	0.123	0.28	0.0313	11.18
4558	4557	257.3	8	0.123	0.28	0.0313	11.18
4559	4558	240	8	0.96	0.78	0.0026	0.33
4560	4559	263.5	8	1.447	0.95	0.0026	0.27
4561	4560	212.5	6	1.49	0.45	0.0004	0.09
4562	4560	341.7	8	2.216	1.18	0.0015	0.13
4563	4558	81.3	8	0.123	0.28	0.0305	10.89
4565	4564	74.4	8	0.788	0.7	0.003	0.43
4566	4565	259	8	0.995	0.79	0.0015	0.19
4567	4564	291.7	8	0.123	0.28	0.0293	10.46

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
4568	4567	313.9	8	0.123	0.28	0.0293	10.46
4570	4569	14.6	8	1.788	1.06	0	0.00
4571	4570	218.4	8	0.536	0.58	0	0.00
4572	4568	226.4	8	0.123	0.28	0.0293	10.46
4573	4572	206.3	8	0.123	0.28	0.0293	10.46
4574	4573	192.4	8	0.123	0.28	0.0293	10.46
4575	4574	227.1	8	0.123	0.28	0.0006	0.21
4576	4575	50	6	0.123	0.13	0.0006	0.46
4577	4555	323.4	8	0.48	0.55	0.0009	0.16
4578	4577	470.7	8	0.46	0.54	0.0005	0.09
4579	4578	165.2	8	0.473	0.54	0.0004	0.07
4580	4576	591.8	6	0.123	0.13	0.0006	0.46
4581	4580	419.8	6	0.387	0.23	0.0006	0.26
4582	4581	795.7	4	2.011	0.18	0.0006	0.33
4583	4574	192.1	8	0.493	0.56	0.0288	5.14
50001	50000	137.8	10	0.864	1.33	0.1009	7.59
50005	50004	330.8	10	1.276	1.62	0.099	6.11
50010	50005	284.4	10	0.555	1.07	0.0987	9.22
50015	50010	55.7	8	0.952	0.77	0.0298	3.87
50020	50010	76	10	0.276	0.75	0.0687	9.16
50025	50015	196.4	8	0.175	0.33	0.0132	4.00
50030	50015	323.5	8	0.544	0.58	0.0151	2.60
50035	50015	104.3	6	1.3	0.42	0.0015	0.36
50036	50035	132.9	6	5.858	0.89	0.0012	0.13
50045	50030	232.5	8	0.448	0.53	0.0145	2.74
50050	50045	166.5	8	2.818	1.33	0.014	1.05
50055	50050	307.7	8	1.881	1.09	0.0096	0.88
50060	50050	113.4	6	2.773	0.61	0.0044	0.72
50065	50055	405.9	8	0.622	0.62	0.0043	0.69
50075	50055	387.6	6	1.445	0.44	0.0037	0.84
50080	50065	278.4	6	1.325	0.42	0.0028	0.67
50085	50080	308.7	6	2.325	0.56	0.0012	0.21
50090	50075	233.4	6	1.063	0.38	0.0017	0.45
50095	50090	168	6	1.556	0.46	0.0009	0.20
50100	50060	303.9	6	1.922	0.51	0.003	0.59
50105	50100	241	6	2.993	0.64	0.0015	0.23
50110	50025	223.6	6	4.416	0.78	0.0028	0.36
50115	50110	297	6	1.042	0.38	0.0024	0.63
50120	50115	333.8	6	1.438	0.44	0.001	0.23
50125	50130	137.7	6	0.372	0.22	0.0009	0.41
50130	50135	274.7	6	1.728	0.48	0.0019	0.40
50135	50140	368.3	6	1.079	0.38	0.0032	0.84

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
50140	50145	363.9	6	2.758	0.61	0.0048	0.79
50145	50150	96.3	6	0.564	0.28	0.0057	2.04
50150	50160	198.3	8	0.395	0.5	0.0066	1.32
50155	50150	93.1	6	4.376	0.77	0.0009	0.12
50160	50165	44.6	8	0.374	0.48	0.0066	1.38
50165	50180	364.3	8	1.307	0.91	0.0071	0.78
50170	50180	76.9	8	2.908	1.35	0.0011	0.08
50175	50170	177	6	7.994	1.04	0.0008	0.08
50180	50185	109	8	0.451	0.53	0.0084	1.58
50185	50190	30.5	8	0.451	0.53	0.0097	1.83
50190	50195	57.5	8	0.451	0.53	0.0099	1.87
50195	50025	189.4	8	0.247	0.39	0.0102	2.62
50200	50185	115.4	6	0.857	0.34	0.0008	0.24
50205	50200	333.8	6	0.893	0.35	0.0005	0.14
50210	50020	511.4	10	0.725	1.22	0.0684	5.61
50215	50210	353.8	6	2.945	0.63	0.01	1.59
50220	50215	159	8	0.577	0.6	0.0094	1.57
50225	50220	320.1	8	0.551	0.59	0.0057	0.97
50230	50225	236.4	6	0.689	0.3	0.0045	1.50
50235	50220	305.1	8	1.038	0.81	0.0028	0.35
50240	50235	292.7	8	0.217	0.37	0.0016	0.43
50245	50240	152	6	1.021	0.37	0.0006	0.16
50250	50230	387.6	6	2.301	0.56	0.0024	0.43
50255	50250	384.1	6	0.076	0.1	0.0012	1.20
50260	50355	144.1	6	1.113	0.39	0.0005	0.13
50265	50315	149.7	6	0.421	0.24	0.0021	0.88
50275	50230	271.8	8	0.56	0.59	0.0016	0.27
50280	50275	208.3	6	4.561	0.79	0.0002	0.03
50285	50275	401.2	6	0.771	0.32	0.0005	0.16
50290	50210	329.2	10	0.668	1.17	0.0575	4.91
50295	50290	258.9	10	0.77	1.26	0.0573	4.55
50300	50301	294.8	10	0.736	1.23	0.0561	4.56
50305	50300	317	10	0.594	1.1	0.0558	5.07
50310	50305	142.7	10	0.594	1.1	0.0482	4.38
50315	50385	321.9	6	0.775	0.32	0.0023	0.72
50330	50305	321.4	8	1.051	0.81	0.0074	0.91
50335	50330	270	8	0.578	0.6	0.0069	1.15
50340	50335	243.9	8	1.082	0.82	0.006	0.73
50345	50340	293	8	0.794	0.71	0.0053	0.75
50350	50345	306.6	8	0.794	0.71	0.0017	0.24
50355	50350	249	6	0.588	0.28	0.001	0.36
50360	50345	302.7	6	1.693	0.48	0.0029	0.60

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
50365	50360	302.3	6	2.001	0.52	0.0017	0.33
50370	50365	204.8	6	1.514	0.45	0.0012	0.27
50375	50370	303.7	6	2.711	0.61	0.0009	0.15
50380	50375	335.8	6	2.583	0.59	0.0005	0.08
50385	50390	235.6	6	3.464	0.69	0.0023	0.33
50390	50391	287.4	6	1.392	0.43	0.0121	2.81
50395	50400	436.1	6	2.234	0.55	0.0127	2.31
50400	50405	188	6	5.503	0.87	0.0127	1.46
50405	50410	123.4	6	2.336	0.56	0.0131	2.34
50410	50415	219.2	6	5.168	0.84	0.0134	1.60
50415	50425	352.1	6	1.469	0.45	0.0153	3.40
50420	50415	233.6	6	4.18	0.75	0.0007	0.09
50425	50430	363	6	1.142	0.39	0.0159	4.08
50430	50435	364.3	6	1.368	0.43	0.0178	4.14
50435	50440	340	6	0.353	0.22	0.0186	8.45
50440	50515	190.7	8	3.026	1.38	0.0209	1.51
50445	50430	360.9	6	1.431	0.44	0.0012	0.27
50450	50445	238	6	2.077	0.53	0.0008	0.15
50455	50515	197.6	10	1.117	1.52	0.031	2.04
50460	50455	346.7	10	0.22	0.67	0.0303	4.52
50465	50460	181.6	10	0.268	0.74	0.0293	3.96
50470	50465	97.2	6	4.394	0.77	0.0018	0.23
50475	50465	349.5	10	0.292	0.77	0.0268	3.48
50480	50475	102.9	6	7.109	0.98	0.0005	0.05
50485	50475	180.7	10	0.292	0.77	0.0259	3.36
50490	50485	173.6	6	6.376	0.93	0.002	0.22
50495	50490	11	6	3.308	0.67	0.002	0.30
50500	50495	118.2	6	1.199	0.4	0.0007	0.18
50505	50485	178.2	10	0.292	0.77	0.0237	3.08
50510	50505	348.9	10	0.292	0.77	0.0237	3.08
50515	50310	190.1	10	0.842	1.32	0.0482	3.65
50525	50510	391.5	10	0.14	0.53	0.0237	4.47
50530	50535	302.8	8	2.969	1.37	0	0.00
50535	50555	199.3	8	1.011	0.8	0	0.00
50540	50550	190.7	8	0.531	0.58	0.001	0.17
50545	50540	247.2	8	1.072	0.82	0.0005	0.06
50550	50440	352	8	1.417	0.94	0.0032	0.34
50555	50540	323.3	8	1.604	1	0	0.00
50560	50550	348.7	8	0.474	0.54	0.0014	0.26
50565	50560	205.7	6	1.103	0.39	0.001	0.26
50570	50525	157.7	6	7.86	1.03	0.0022	0.21
50575	50570	175.3	6	0.919	0.35	0.0018	0.51

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Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
50580	50575	100.1	6	0.273	0.19	0.0014	0.74
50580A	50580	150.4	6	1.469	0.45	0.0002	0.04
50585	50525	367.3	10	0.251	0.72	0.0222	3.08
50590	50585	163.3	6	7.736	1.03	0.0011	0.11
50595	50585	405.3	10	0.062	0.35	0.0213	6.09
50610	50605	180.8	10	0.355	0.85	0.0146	1.72
50615	50605	331.1	6	3.861	0.72	0.0052	0.72
50620	50615	360.4	6	0.651	0.3	0.0032	1.07
50625	50620	359	6	0.682	0.3	0.0019	0.63
50630	50625	220.4	6	0.611	0.29	0.0009	0.31
50635	50610	98	6	0.333	0.21	0	0.00
50640	50610	168	10	0.355	0.85	0.0143	1.68
50645	50640	333.8	6	1.015	0.37	0.0051	1.38
50650	50645	365.4	6	4.199	0.76	0.0033	0.43
50655	50650	359	6	2.291	0.56	0.002	0.36
50660	50655	246.5	6	0.673	0.3	0.0009	0.30
50665	50640	205.7	8	0.602	0.61	0.0079	1.30
50670	50671	350.7	6	0.845	0.34	0.0027	0.79
50671	50665	352.6	6	3.438	0.68	0.0043	0.63
50675	50670	355.7	6	4.086	0.75	0.0021	0.28
50680	50675	57.9	6	0.194	0.16	0.0016	1.00
50685	50680	166	6	6.787	0.96	0.0006	0.06
50705	50665	338.3	8	0.763	0.69	0.0027	0.39
60005	60000	290.6	18	0.86	6.32	0.3895	6.16
60010	60005	311.1	18	0.024	1.04	0.3827	36.80
60015	60010	258.6	18	0.053	1.56	0.3852	24.69
60020	60015	319.4	8	1.078	0.82	0.0049	0.60
60030	60025	221.5	18	0.144	2.57	0.3894	15.15
60035	60030	102.5	8	1.351	0.92	0.0587	6.38
60040	60030	248.4	18	0.202	3.05	0.3496	11.46
60045	60035	179.5	8	1.123	0.84	0.0301	3.58
60050	60035	119.1	8	4.624	1.71	0.0271	1.58
60051	60050	158.4	8	0.966	0.78	0.0249	3.19
60055	60040	401.5	18	0.385	4.22	0.3508	8.31
60060	60055	196.6	18	0.622	5.37	0.351	6.54
60065	60060	348.7	18	0.253	3.42	0.3504	10.25
60070	60065	316.2	8	1.97	1.11	0.0103	0.93
60075	60065	302.6	18	1.325	7.85	0.344	4.38
60090	60085	275	18	0.365	4.11	0.3494	8.50
60100	60095	264.2	18	0.452	4.57	0.3518	7.70
60105	60020	178.7	8	6.11	1.96	0.0033	0.17
60110	60045	248.8	8	0.842	0.73	0.0279	3.82

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
60115	60110	42.1	8	3.47	1.48	0.0261	1.76
60120	60115	183.8	8	2.092	1.15	0.0037	0.32
60125	60115	199.7	8	1.928	1.1	0.0207	1.88
60130	60120	156.3	8	6.483	2.02	0.0031	0.15
60135	60125	196.8	8	2.691	1.3	0.0019	0.15
60140	60125	50.1	8	0.969	0.78	0.0152	1.95
60145	60140	243.1	8	3.816	1.55	0.014	0.90
60150	60145	375.3	8	3.076	1.39	0.0085	0.61
60155	60150	391	8	3.958	1.58	0.003	0.19
60160	60051	147.8	8	3.253	1.43	0.0091	0.64
60165	60160	372.6	8	0.597	0.61	0.008	1.31
60170	60165	377.4	8	1.871	1.08	0.0034	0.31
60175	60070	283.2	8	4.42	1.67	0.0066	0.40
60180	60175	241	8	4.357	1.66	0.0036	0.22
60210	60205	146.7	8	1.21	0.87	0.0022	0.25
60215	60200	149.4	8	1.227	0.88	0.0011	0.13
60220	60100	89.2	18	0.835	6.23	0.3529	5.66
60225	60220	135	18	1.063	7.03	0.3532	5.02
60230	60225	139.5	8	1.835	1.07	0.0388	3.63
60235	60225	150.3	18	0.625	5.38	0.3229	6.00
60240	60235	228.5	18	0.333	3.92	0.3233	8.25
60245	60240	272.9	18	0.759	5.94	0.3244	5.46
60250	60245	271.1	18	0.126	2.41	0.3252	13.49
60255	60250	118.8	12	3.371	4.28	0.2207	5.16
60265	60250	163.9	15	0.104	1.35	0.1279	9.47
60270	60265	95	15	1.489	5.14	0.1217	2.37
60275	60270	225.9	15	0.859	3.9	0.1215	3.12
60280	60275	276.4	15	0.485	2.92	0.1215	4.16
60285	60280	251.7	15	0.039	0.82	0.1215	14.82
60290	60285	116.4	15	0.54	3.09	0.1217	3.94
60295	60290	151.6	15	0.491	2.94	0.1217	4.14
60300	60296	81.8	15	0.445	2.8	0.1218	4.35
60305	60300	111.7	15	0.445	2.8	0.1218	4.35
60310	60305	241	15	0.445	2.8	0.1218	4.35
60315	60310	128.3	15	1.341	4.87	0.1218	2.50
60320	60315	234	15	0.632	3.34	0.1219	3.65
60325	60320	372.3	15	0.513	3.01	0.1219	4.05
60330	60325	258.9	15	1.197	4.6	0.1219	2.65
60335	60330	211.9	15	0.505	2.98	0.1199	4.02
60355	60350	237.1	15	0.611	3.28	0.0851	2.59
60360	60355	367	15	0.39	2.62	0.0851	3.25
60365	60360	193	15	0.667	3.43	0.0851	2.48

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Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
60370	60365	210.7	15	0.589	3.23	0.0852	2.64
60375	60370	207.2	15	0.416	2.71	0.0852	3.14
60380	60375	260.8	15	0.437	2.77	0.0852	3.08
60395	60390	86.8	15	0.209	1.91	0.0853	4.47
60400	60395	350	15	0.676	3.46	0.015	0.43
60410	60400	248.2	15	1.073	4.36	0.0149	0.34
60415	60410	347.6	15	1.2	4.61	0.0149	0.32
60420	60415	215	15	0.524	3.04	0.0149	0.49
60425	60420	297.5	15	0.178	1.77	0.0149	0.84
60430	60425	197.5	12	0.684	1.92	0.015	0.78
60435	60430	126.1	12	0.163	0.93	0.015	1.61
60440	60435	152.4	12	1.241	2.59	0.015	0.58
60445	60440	107.4	12	0.502	1.65	0.015	0.91
60450	60445	294.5	12	0.26	1.18	0.015	1.27
60455	60450	299.6	12	0.669	1.9	0.015	0.79
60460	60455	251	12	0.428	1.52	0.015	0.99
60565	60345	330.7	6	1.13	0.39	0.0189	4.85
60575	60565	396.4	6	1.997	0.52	0.0163	3.13
60580	60565	284.9	6	9	1.11	0.0017	0.15
60585	60575	120.4	6	10.398	1.19	0.004	0.34
60590	60575	284.8	6	2.674	0.6	0.0097	1.62
60595	60590	240.9	6	7.337	1	0.0067	0.67
60615	60610	261.6	6	6.297	0.93	0.0051	0.55
60620	60615	263.7	6	4.959	0.82	0.002	0.24
60635	60630	199.3	6	2.957	0.63	0.0032	0.51
60640	60630	199.4	6	1.755	0.49	0.002	0.41
60650	60645	240.1	8	0.246	0.39	0.0297	7.62
60655	60650	216	8	0.439	0.52	0.0274	5.27
60660	60655	288.9	8	2.295	1.2	0.0028	0.23
60665	60655	236.5	8	0.858	0.73	0.0218	2.99
60670	60665	288.3	8	1.406	0.94	0.0024	0.26
60675	60665	298.3	8	0.287	0.42	0.0167	3.98
60680	60675	277.6	8	2.746	1.32	0.0028	0.21
60700	60695	165.5	8	3.654	1.52	0.0021	0.14
60705	60695	231.6	8	2.599	1.28	0.0015	0.12
60710	60405	95.4	8	5.428	1.85	0.0776	4.19
60715	60710	357	8	0.83	0.72	0.0726	10.08
60720	60715	270.7	8	1.711	1.04	0.0676	6.50
60725	60720	357	8	0.596	0.61	0.0518	8.49
60730	60720	272.8	8	3.114	1.4	0.0101	0.72
60735	60725	260.8	8	3.802	1.55	0.0475	3.06
60745	60730	144.9	8	3.819	1.55	0.0036	0.23

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
60755	60750	111.6	8	1.29	0.9	0.0086	0.96
60760	60750	96.3	8	1.272	0.89	0.0183	2.06
60765	60755	192.3	8	5.233	1.82	0.0061	0.34
60770	60755	355.9	8	3.349	1.45	0.0014	0.10
60775	60765	202.5	8	1.117	0.84	0.0037	0.44
60780	60765	58	8	9.54	2.46	0.0013	0.05
60785	60775	96.8	8	1.185	0.86	0.0022	0.26
60790	60785	115.2	8	7.562	2.19	0.0014	0.06
60795	60780	114.3	8	2.519	1.26	0.0007	0.06
60800	60760	75	8	0.384	0.49	0.0175	3.57
60805	60800	189.1	8	0.234	0.38	0.0153	4.03
60810	60805	77.3	8	5.285	1.83	0.0044	0.24
60815	60805	279.9	8	0.454	0.53	0.0101	1.91
60820	60810	113.8	8	0.343	0.46	0.0025	0.54
60825	60820	46.5	8	3.406	1.47	0.0022	0.15
60830	60825	79.2	8	9.751	2.48	0.0006	0.02
60835	60825	271.3	8	0.858	0.73	0.0013	0.18
60840	60815	119.3	8	6.54	2.03	0.0056	0.28
60845	60840	201.8	8	0.293	0.43	0.0046	1.07
60855	60850	199.6	8	1.244	0.88	0.034	3.86
60860	60855	278.6	8	2.415	1.23	0.0319	2.59
60865	60860	234	8	0.993	0.79	0.0286	3.62
60870	60860	226.3	8	4.956	1.77	0.0018	0.10
60880	60865	359.5	8	0.369	0.48	0.0145	3.02
60885	60865	255.3	8	0.646	0.64	0.0077	1.20
60895	60885	188.4	8	9.723	2.48	0.0018	0.07
60900	60560	231.9	8	0.37	0.48	0.0007	0.15
60905	60900	220.9	8	0.519	0.57	0	0.00
60910	60560	125	8	6.448	2.02	0.0129	0.64
60915	60910	209.6	8	0.657	0.64	0.0108	1.69
60920	60915	132.4	8	0.29	0.42	0.0079	1.88
60925	60920	251.9	8	0.579	0.6	0.005	0.83
60930	60925	381.3	8	3.607	1.51	0.0022	0.15
60935	60230	278.8	8	0.641	0.63	0.0286	4.54
60940	60935	245.6	8	1.325	0.91	0.028	3.08
60945	60940	251.3	8	1.25	0.89	0.0248	2.79
60950	60945	237.8	8	2.062	1.14	0.0197	1.73
60955	60950	397.6	8	6.174	1.97	0.0159	0.81
60960	60255	225.4	12	1.41	2.77	0.2213	7.99
60965	60960	250.5	12	0.3	1.27	0.211	16.61
60970	60965	454.7	12	0.261	1.18	0.2129	18.04
60975	60970	180.7	12	1.724	3.06	0.2185	7.14

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
60980	60975	256.5	12	1.512	2.86	0.2189	7.65
60985	60980	193.2	12	0.541	1.71	0.2193	12.82
60990	60985	266.3	12	0.963	2.28	0.22	9.65
60995	60990	231.1	12	0.45	1.56	0.2189	14.03
61010	61005	275.6	12	0.345	1.36	0.1959	14.40
61015	61010	118.2	12	1.222	2.57	0.1922	7.48
61020	61015	348.9	12	0.546	1.72	0.184	10.70
61025	61020	322.6	12	1.827	3.15	0.1849	5.87
61030	61025	351.3	8	0.495	0.56	0.1835	32.77
61035	61030	336.3	8	0.306	0.44	0.1843	41.89
61040	61035	389.9	8	2.805	1.33	0.1842	13.85
61055	61050	390.9	8	2.087	1.15	0.0069	0.60
61060	61055	186.2	8	1.97	1.11	0.0069	0.62
61065	61060	224.3	8	1.42	0.94	0.0069	0.73
61070	61065	80.6	8	4.104	1.61	0.0069	0.43
61075	60230	272.3	8	1.056	0.81	0.0102	1.26
61080	61075	198.4	8	1.682	1.03	0.007	0.68
61085	61080	226.3	8	2.473	1.25	0.0044	0.35
50695	50690	458.1	6	5.165	0.84	0.0008	0.10
50700	50695	195.1	6	5.086	0.83	0.0002	0.02
50002	50001	395.7	10	0.426	0.93	0.0997	10.72
50003	50002	287.7	10	0.4	0.9	0.0997	11.08
50301	50295	253.1	10	0.687	1.19	0.057	4.79
4271	4270	206.4	6	12.667	1.31	0.0048	0.37
4272	4271	206.4	6	0.591	0.28	0.0024	0.86
10065	50000	297.5	8	2.013	1.13	0.0433	3.83
10415	10410	321	8	0.842	0.73	0.0069	0.95
10420	10415	322.6	8	3.027	1.38	0.003	0.22
10460	10455	217.6	12	0.772	2.04	0.5485	26.89
10520	10515	409.3	8	0.357	0.47	0.016	3.40
10525	10520	371.6	8	0.357	0.47	0.0136	2.89
10540	10535	344.7	8	0.475	0.54	0.0024	0.44
10545	10540	299.4	8	0.475	0.54	0.0015	0.28
10695	10675	341.9	8	0.328	0.45	0.3035	67.44
10710	10695	397	6	3.023	0.64	0.0084	1.31
10715	10695	362	8	0.594	0.61	0.2682	43.97
10720	10695	93.1	8	1.6	1	0.0494	4.94
10965	10955	388.8	8	0.582	0.6	0.0062	1.03
10985	10965	291.5	8	0.629	0.63	0.0025	0.40
11230	11225	217.6	6	2.539	0.59	0	0.00
11235	11230	359.2	6	4.29	0.76	0	0.00
11370	11365	397.6	6	0.705	0.31	0.0068	2.19

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
11375	11370	251	6	0.498	0.26	0.0065	2.50
12210	12211	60.3	8	6.42	2.01	0.0152	0.76
12215	12210	164.1	8	0.723	0.67	0.0086	1.28
12260	12265	150.9	6	0.705	0.31	0.0055	1.77
12265	12210	262.1	8	2.117	1.15	0.0066	0.57
12270	12260	140.4	6	1.529	0.46	0.0051	1.11
12275	12270	140.2	6	3.474	0.69	0.0047	0.68
12290	12211	161.2	10	1.108	1.51	0.0313	2.07
12355	12345	113.6	8	2.845	1.34	0.0023	0.17
12360	12355	75.3	8	0.757	0.69	0.0008	0.12
12365	12355	319.8	6	3.488	0.69	0.0008	0.12
12475	12470	187.4	6	3.481	0.69	0.0008	0.12
12480	12481	125.1	8	1.647	1.02	0.2481	24.32
12770	12765	139	8	1.521	0.98	0.0091	0.93
12775	12770	301.5	8	0.745	0.68	0.0077	1.13
13005	13000	101.2	8	0.051	0.18	0	0.00
13010	13005	301.3	8	0.328	0.45	0	0.00
13015	13010	299.4	8	0.465	0.54	0	0.00
22005	22000	281.1	8	0.152	0.31	0	0.00
22010	22000	370	8	0.204	0.36	0.0111	3.08
22015	22000	405.9	8	0.492	0.55	0	0.00
22020	22010	375.5	8	0.204	0.36	0.0111	3.08
22025	22020	347.8	8	0.459	0.54	0.0111	2.06
22030	22025	285.8	8	0.453	0.53	0.0111	2.09
22035	22030	410.6	8	0.394	0.5	0.0111	2.22
22040	22030	312.7	8	0.243	0.39	0	0.00
22050	22035	306.7	8	0.394	0.5	0.0111	2.22
22055	22050	326.2	8	0.819	0.72	0.0111	1.54
22060	22055	244.2	8	0.459	0.54	0.0111	2.06
22065	22060	216.9	8	0.459	0.54	0.0111	2.06
22070	22065	174.4	8	1.269	0.89	0.0111	1.25
22075	22070	322	8	0.595	0.61	0.0111	1.82
22080	22075	161.4	8	1.782	1.06	0.0111	1.05
22085	22080	349.3	8	1.15	0.85	0.0111	1.31
22100	22085	291.4	8	1.986	1.12	0.0111	0.99
22105	22100	187	8	0.81	0.71	0.0101	1.42
22110	22105	163.1	8	4.125	1.61	0.0101	0.63
22115	22110	142.8	8	0.966	0.78	0.009	1.15
22120	22115	361.4	8	1.805	1.07	0.004	0.37
22125	22115	137.6	8	0.966	0.78	0.003	0.38
22130	22120	192.7	8	1.503	0.97	0.0011	0.11
30142B	30142A	225.6	8	1.275	0.89	0	0.00

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
30142C	30142A	104.2	8	6.629	2.05	0	0.00
30200	30205	253.5	10	0.49	1	0.637	63.70
30205	30210	291.8	10	0.57	1.08	0.6338	58.69
30210	30215	328.8	10	0.835	1.31	0.6342	48.41
30215	30160	386.8	10	1.313	1.64	0.6349	38.71
30281A	30281	349.8	6	4.129	0.75	0.003	0.40
30295	30290	280.2	10	1.12	1.52	0.2029	13.35
30300	30295	47.6	6	11.33	1.24	0.0031	0.25
30301	30300	205	6	1.034	0.37	0.001	0.27
30305	30295	364.7	8	2.954	1.36	0.0066	0.49
30361	30295	354.8	8	2.022	1.13	0.1951	17.27
30395	30400	334	6	0.946	0.36	0.001	0.28
30400	30406	58.6	6	1.418	0.44	0.0027	0.61
30405	30410	366.8	8	0.943	0.77	0.0088	1.14
30406	30405	353.6	6	1.2	0.4	0.0052	1.30
30407	30405	134.4	6	8.752	1.09	0.0016	0.15
30410	30415	326	8	1.128	0.84	0.0121	1.44
30420	30425	365.5	8	2.944	1.36	-0.0041	-0.30
30425	30430	378.5	8	1.877	1.09	0.161	14.77
30435	30425	247.1	8	1.906	1.1	0.156	14.18
30501	30505	215.9	8	0.926	0.76	0.0026	0.34
30531	30530	213.3	8	3.078	1.39	0.0036	0.26
30532	30531	172.3	8	2.784	1.32	0.0015	0.11
30590	30595	335	8	0.252	0.4	0.0026	0.65
30635	34030	257.2	8	0.568	0.6	0.0337	5.62
30725	30635	251.7	8	0.004	0.05	0.0205	41.00
30735	30435	390.9	6	0.707	0.31	0.1539	49.65
30745	30746	367.9	8	2.631	1.29	0.003	0.23
30746	30746A	348.9	8	7.036	2.11	0.0046	0.22
30746A	30747	6.7	8	14.108	2.99	0.0111	0.37
30746B	30746A	250.5	8	2.006	1.12	0.0062	0.55
30746C	30746B	427.1	8	4.542	1.69	0.005	0.30
30746D	30746C	352	8	3.3	1.44	0.0023	0.16
30830	30820	271	8	5.889	1.93	0.0041	0.21
30840	30830	340.5	8	4.331	1.65	0.0021	0.13
30949	30953	100.7	8	2.252	1.19	0.0079	0.66
31125	31261	181.2	8	3.508	1.49	0.0062	0.42
31135	31130	225.4	8	4.705	1.72	0.002	0.12
31140	31261	175.3	8	7.372	2.16	0.0006	0.03
31145	31261	80.9	8	4.89	1.76	0.0013	0.07
31185	31250	182.8	8	4.496	1.68	0.0169	1.01
31205	31165	381.3	8	1.191	0.86	0.0017	0.20

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
31250	31210	313	8	0.245	0.39	0.1683	43.15
31261	31260	162.9	8	2.268	1.19	0.0086	0.72
31276	31275	124.3	6	14.958	1.43	-0.0035	-0.24
31290	31250	231.5	8	5.165	1.81	0.0017	0.09
32025	32035	197.2	8	0.752	0.69	0.0577	8.36
32136	32135	118.9	6	0.448	0.25	0	0.00
32137	32136	274.3	6	0.582	0.28	0	0.00
32140	32143	203.2	6	1.078	0.38	0.0042	1.11
32143	32135	175.3	6	1.608	0.47	0.0046	0.98
32180	32175	175.8	8	2.999	1.37	0	0.00
32185B	32185	202.2	8	4.383	1.66	0.0016	0.10
32236	32240	363.8	8	2.021	1.13	0.0051	0.45
33100	33117	268.6	10	0.446	0.96	0.2941	30.64
33117	33118	520.2	10	0.446	0.96	0.297	30.94
33118	33121	384.8	10	0.446	0.96	0.2956	30.79
33119	33118	237	8	0.737	0.68	0.0044	0.65
33121	33122	373.4	10	0.446	0.96	0.2935	30.57
45005	45000	108.2	8	0.452	0.53	0.0001	0.02
50600	50595	404.5	10	0.191	0.62	0.0208	3.35
50600A	50600	165.1	8	0.29	0.42	-0.0001	-0.02
50605	50600	50.9	10	0.355	0.85	0.0206	2.42
50690	50680	305.6	6	0.661	0.3	0.0008	0.27
50710	50705	405.9	8	0.358	0.47	0.0017	0.36
50720	50715	114	6	0.843	0.34	0.0006	0.18
60025	60015	142.5	18	0.221	3.19	0.3874	12.14
60080	60075	204.1	18	0.088	2.01	0.3445	17.14
60085	60080	293.1	18	0.357	4.06	0.3468	8.54
60095	60090	222.5	18	0.484	4.73	0.3509	7.42
60185	60051	147.1	8	0.631	0.63	0.0152	2.41
60190	60185	271	8	0.528	0.57	0.0131	2.30
60195	60190	179.3	8	0.446	0.53	0.0082	1.55
60200	60195	125.5	8	0.629	0.63	0.0033	0.52
60205	60195	136.1	8	0.342	0.46	0.0038	0.83
60340	60335	242.7	15	0.076	1.15	0.1184	10.30
60350	60340	195.6	15	1.389	4.96	0.0851	1.72
60385	60380	344.2	15	0.8	3.76	0.0852	2.27
60390	60385	229.5	15	0.208	1.91	0.0853	4.47
60405	60395	379.8	10	1.145	1.54	0.0776	5.04
60465	60460	200.3	12	0.514	1.67	0.015	0.90
60470	60465	92.8	12	1.325	2.68	0.015	0.56
60475	60470	258.4	12	0.464	1.58	0.015	0.95
60480	60475	396	12	0.883	2.19	0.015	0.68

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Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
60485	60480	220.1	12	0.218	1.08	0.015	1.39
60490	60485	213.3	12	0.633	1.85	0.015	0.81
60495	60490	30	12	0.851	2.15	0.0151	0.70
60500	60495	126.6	12	1.62	2.97	0.0151	0.51
60505	60500	345.8	12	1.474	2.83	0.0151	0.53
60510	60505	401.1	12	1.092	2.43	0.0151	0.62
60515	60510	385.2	12	1.404	2.76	0.0151	0.55
60520	60515	103.8	12	0.412	1.49	0.0151	1.01
60525	60520	104.5	12	2.061	3.35	0.0151	0.45
60530	60525	358.4	12	1.14	2.49	0.0151	0.61
60535	60530	298.1	12	0.511	1.66	0.0151	0.91
60540	60535	339.7	8	1.752	1.05	0.0151	1.44
60545	60540	342.3	8	1.424	0.95	0.0151	1.59
60550	60545	326	8	1.869	1.08	0.0151	1.40
60555	60550	113.2	8	1.255	0.89	0.0151	1.70
60560	60555	306.6	8	3.624	1.51	0.0151	1.00
60676	60675	275.8	8	0.287	0.42	0.0103	2.45
60690	60676	182.2	8	3.83	1.55	0.0024	0.15
60695	60676	283.8	8	0.287	0.42	0.006	1.43
60740	60735	277.1	8	1.887	1.09	0.0432	3.96
61000	60995	72.5	12	1.204	2.56	0.2063	8.06
61005	61000	318.9	12	0.362	1.4	0.2013	14.38
61090	61040	382	8	0.881	0.74	0.1792	24.22
61100	61090	215	8	0.689	0.66	0.1758	26.64
61105	61100	255.9	8	1.066	0.82	0.1739	21.21
61110	61105	342.2	8	0.76	0.69	0.1631	23.64
61115	61105	330.1	8	2.424	1.24	0.009	0.73
61120	61115	214.9	8	7.233	2.14	0.0024	0.11
61125	61115	332.6	8	1.329	0.91	0.0014	0.15
61130	61125	226.1	8	6.162	1.97	0	0.00
60345	60340	183	12	1.904	3.22	0.0376	1.17
60600	60595	232.2	6	1.316	0.42	0.0036	0.86
60610	60570	268.8	12	1.06	2.4	0.0074	0.31
60625	60605	364	8	2.357	1.22	0.009	0.74
60630	60625	235.2	6	4.005	0.74	0.0059	0.80
60850	LS-26_WW	104.3	8	1.194	0.87	0.0394	4.53
60750	LS-27_WW	97.5	8	0.643	0.63	0.0271	4.30
61050	LS-06_WW	372.8	8	0.697	0.66	0.0069	1.05
21020	21015	200	8	3.895	1.57	0.0005	0.03
21010	20945	150.4	8	1.704	1.04	0.001	0.10
20945	LS-07_WW	82.6	8	4.841	1.75	0.0601	3.43
30065	30060	300.1	8	1.14	0.85	0.0033	0.39

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
20280	20270	312.6	8	0.375	0.48	-0.0008	-0.17
22000	LS-28_WW	328.6	8	0.204	0.36	0.0249	6.92
10270	LS-19_WW	20	8	1.95	1.11	0.0488	4.40
10400	10395	174.7	8	0.237	0.38	0.0075	1.97
10425	LS-03_WW	145.3	8	3.314	1.45	0.0128	0.88
10330	LS-24_WW	69.8	8	0.601	0.61	0.0212	3.48
13000	LS-30_WW	207.9	8	0.138	0.29	0.0016	0.55
10925	LS-18_WW	221.7	8	0.531	0.58	0.0353	6.09
10920	10915	74.8	6	0.361	0.22	0.0004	0.18
50715	50710	278.8	6	0.445	0.24	0.0014	0.58
4256	LS-04_WW	97.9	6	4.781	0.81	0.0092	1.14
4251	LS-04_WW	22.5	6	1.937	0.51	0.0045	0.88
60000	LS-25_WW	40.1	18	1.353	7.93	0.4464	5.63
60645	LS-21_WW	211.7	8	0.189	0.34	0.0312	9.18
12211	LS-11_WW	93	10	0.268	0.74	0.0467	6.31
12000	LS-10_WW	59.6	10	0.599	1.11	0.2704	24.36
12575	LS-22_WW	33.4	8	0.74	0.68	0.0835	12.28
11465	LS-09_WW	73.8	8	0.746	0.68	0.028	4.12
12481	11015	148	8	1.026	0.8	0.2175	27.19
11005	LS-12_WW	33.8	8	5.579	1.88	0.2648	14.09
12520	12525	98.3	8	2.049	1.14	0.0013	0.11
12555	LS-02_WW	40.3	8	0.532	0.58	0.0106	1.83
12820	LS-36_WW	122.8	8	4.239	1.64	0.0019	0.12
32065	LS-20_WW	170.6	8	0.846	0.73	0.1074	14.71
20865	LS-17_WW	263.2	8	0.54	0.58	0.0027	0.47
20860	LS-17_WW	272.8	8	0.685	0.65	0.0018	0.28
20850	LS-17_WW	156.7	8	1.959	1.11	0.0015	0.14
45010	LS-14_WW	109.9	8	2.88	1.35	0.0034	0.25
45000	LS-14_WW	98.2	8	0.334	0.46	0.0001	0.02
22091	22090	250.4	8	2.21	1.18	0	0.00
22090	22080	345.8	8	2.271	1.2	0	0.00
22095	22040	80.6	8	1.123	0.84	0	0.00
22045	22030	200.2	8	0.457	0.53	0	0.00
50004	50003	382.1	10	0.27	0.74	0.0997	13.47
10790	10785	100.4	6	0.479	0.25	0.0012	0.48
10855	10845	249.9	8	1.873	1.09	-0.0039	-0.36
10596	10595	150.2	6	3.514	0.69	0.003	0.43
10685	10680	200.2	6	0.485	0.26	0.0011	0.42
4091	4022	251.6	12	0.085	0.67	0.5078	75.79
4077	4076	274.8	6	3.004	0.64	0.0006	0.09
4082	4081	228.9	6	0.85	0.34	0.0063	1.85
11305	11295	100.1	6	0.319	0.21	0	0.00

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
11270	11265	150.4	6	0.749	0.32	0.0003	0.09
11210	11205	200.1	6	2.49	0.58	0	0.00
60570	60345	38.9	12	2.962	4.01	0.0188	0.47
60605	60570	255	8	1.901	1.09	0.0114	1.05
50391	50395	311.5	6	3.913	0.73	0.0123	1.68
4059A	4059	93.6	6	6.135	0.91	0.0009	0.10
4255	4254	258.7	6	4.15	0.75	0.0013	0.17
60741	60740	100	8	7.363	2.16	0.0389	1.80
50000	Outfall-1	82.8	10	1.173	1.55	0.1402	9.05
20005	Outfall-2	117.9	24	0.738	12.51	4.2785	34.20
10455	Outfall-3	62.2	12	1.447	2.8	0.5479	19.57
4131	4125	210.3	12	0.338	1.35	0.5199	38.51
4151	4149	184.7	6	0.35	0.22	0.006	2.73
4148	4146	124.2	6	4.447	0.78	0.0004	0.05
4202	4189	460.3	6	0.951	0.36	0.0016	0.44
4189	4188	185.4	6	1.739	0.49	0.0025	0.51
4170	4169	131.6	10	0.427	0.94	0.0319	3.39
4319	4281	222.4	10	0.74	1.23	0.4299	34.95
4281	4276	307.5	10	0.092	0.43	0.4341	100.95
4300	4299	308.8	6	0.376	0.22	0.006	2.73
4306	4305	216.7	6	8.187	1.06	0.001	0.09
4231	4230	329.4	6	8.006	1.04	0.0017	0.16
4116	4115	352.1	8	6.673	2.05	0.0021	0.10
4400	4354C	491.7	8	1.38	0.93	0.0692	7.44
4354	4354A	77.3	10	0.536	1.05	0.1682	16.02
4410	4409	225	8	1.173	0.86	0.0812	9.44
4458	4455A	211.5	8	3.374	1.46	0	0.00
4455A	4457	134.6	10	3.06	2.51	0.001	0.04
4492	4455A	90.5	8	1.154	0.85	0.001	0.12
4327	4326	37.6	8	1.563	0.99	0.001	0.10
30045	30035	299.8	8	1.147	0.85	0.0038	0.45
30180	30175	310.4	8	2.951	1.36	0.0022	0.16
30175	30170	310.5	8	2.391	1.23	0.0051	0.41
30171	30170	250	8	2.156	1.17	0.0016	0.14
30186	30185	302.5	8	2.646	1.29	0.0018	0.14
30140	30135	100.4	8	0.66	0.64	0.0008	0.13
30135	30145	99.6	8	9.283	2.42	-0.0087	-0.36
20105	20105A	405	12	0.089	0.69	0.2405	34.86
20105A	20095A	466.1	12	0.089	0.69	0.2462	35.68
20095A	20095B	71.9	24	0.16	5.8	1.0727	18.49
20095B	20095C	374.1	24	0.16	5.8	1.0734	18.51
20095C	20065	396.3	24	0.16	5.8	1.0735	18.51

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Dry Weather Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Dry Weather Flow (MGD)	Utilization (%)
20095E	20095D	323.4	8	1.855	1.08	0.0009	0.08
20095D	20095B	262.6	8	1.078	0.82	0.0015	0.18
60890	60885	150.7	8	2.369	1.22	0.0044	0.36
60875	60870	200.3	8	4.35	1.66	0	0.00
30142A	30142	231.9	6	6.098	0.91	0	0.00
30142	32141	119.5	6	6.505	0.94	0	0.00
32141	32138	213.5	6	1.659	0.47	0	0.00
32140A	32140	144.8	6	3.833	0.72	0.0004	0.06
32185A	31185	152.7	8	0.903	0.75	0.0151	2.01
34001	34000	300.7	8	3.631	1.51	0.0018	0.12
30925A	33129	389.3	10	0.446	0.96	0.3355	34.95
34040	30925A	211	8	2.585	1.28	0.02	1.56
11336	11335	250.1	8	1.448	0.95	0.0014	0.15
11335	11330	200.2	8	4.307	1.65	0.0014	0.08
20375	20370	297.8	8	0.756	0.69	0.0074	1.07
20680	20660	99.1	8	4.036	1.6	0.0077	0.48
4545	4544	304.3	8	0.31	0.44	0.002	0.45
4564	4563	260.7	8	0.123	0.28	0.0303	10.82
4569	4568	271.2	8	0.462	0.54	0	0.00
4429A	4429	75.5	8	0.379	0.49	0.0032	0.65
11441	11440	145	8	4.671	1.72	0	0.00
11542	11540	62.2	8	3.49	1.48	0.0007	0.05
60296	60295	81.7	15	0.445	2.8	0.1217	4.35
LS-01-MH	LS-01_WW	28.1	10	3.561	2.72	0.0019	0.07
LS-13-MH	LS-13_WW	8.1	10	12.393	5.08	0.015	0.30
LS-15-MH	LS-15_WW	8.9	10	11.207	4.83	0.0056	0.12
LS-23-MH	LS-23_WW	16.5	10	6.074	3.55	0.0472	1.33
LS-29-MH	LS-29_WW	9.5	10	10.527	4.68	0.0048	0.10
LS-31-MH	LS-31_WW	34.2	10	2.928	2.47	0.0214	0.87
LS-32-MH	LS-32_WW	9.7	10	30.826	8.01	0.0128	0.16
LS-33-MH	LS-33_WW	26.4	10	3.79	2.81	0.0089	0.32
LS-34-MH	LS-34_WW	36.1	10	2.773	2.4	0.0059	0.25
LS-35-MH	LS-35_WW	14	10	3.571	2.72	0.0153	0.56
LS-37-MH	LS-37_WW	37.7	10	2.652	2.35	0.0091	0.39
TP-LS-MH	AILPARK_LS_V	25.3	10	3.947	2.86	0.0238	0.83

APPENDIX E

DESIGN STORM UTILIZATION TABLE

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Deign Storm Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
4001	LS-05_WW	38.1	12	0.932	2.25	2.1022	93.43
4002	LS-05_WW	323.3	8	1.743	1.05	0.1604	15.28
4003	4002	250.7	8	1.843	1.08	0.0472	4.37
4004	4003	335.7	8	1.833	1.07	0.0135	1.26
4005	4004	360.6	8	4.176	1.62	0.0086	0.53
4006	4003	209.3	8	1.465	0.96	0.0307	3.20
4006A	4006	220.9	6	3.853	0.72	0.0026	0.36
4007	4006	261.1	8	0.309	0.44	0.0252	5.73
4008	4007	256	6	5.195	0.84	0.0023	0.27
4009	4009A	95.1	8	0.661	0.64	0.0194	3.03
4009A	4007	149.5	8	0.553	0.59	0.0206	3.49
4010	4009	94.1	6	12.747	1.32	0.0053	0.40
4011	4010	224.9	6	2.583	0.59	0.0025	0.42
4012	4009	279.5	8	0.409	0.5	0.013	2.60
4013	4012	140.3	6	5.656	0.88	0.0025	0.28
4014	4012	280.6	6	3.777	0.72	0.0062	0.86
4015	4014	237.5	6	2.854	0.62	0.0027	0.44
4016	4017	258	6	1.2	0.4	0.0025	0.63
4017	4005	265.4	6	0.928	0.35	0.0057	1.63
4018	4012	105.4	8	0.754	0.69	0.0026	0.38
4019	4019A	297.9	15	0.346	2.47	1.9453	78.76
4019A	4001	37.2	12	0.551	1.73	1.9647	113.57
4020	4019	295	15	0.188	1.82	1.8544	101.89
4021	4020	275.6	15	0.219	1.96	1.7769	90.66
4022	4021	257.6	15	0.671	3.44	1.7786	51.70
4023	4022	414.2	10	0.376	0.88	0.2441	27.74
4024	4023	418.8	10	0.823	1.3	0.2463	18.95
4026	4024	210.8	6	3.756	0.71	0.0224	3.15
4027	4026	164.4	6	7.573	1.02	0.0224	2.20
4028	4027	167.6	8	1.339	0.92	0.0184	2.00
4029	4028	93.8	8	5.61	1.88	0.0151	0.80
4029A	4029	146.8	6	6.036	0.91	0.0105	1.15
4029B	4029A	180.3	6	3.322	0.67	0.0059	0.88
4033	4024	305.6	10	1.311	1.64	0.2248	13.71
4034	4033	306.1	10	1.207	1.58	0.2254	14.27
4035	4035A	212.9	10	1.508	1.76	0.2272	12.91
4035A	4034	393.3	10	0.53	1.04	0.2259	21.72
4036	4035	208.6	10	0.446	0.96	0.2277	23.72
4037	4036	365.8	10	0.211	0.66	0.2286	34.64
4038	4037	177.8	10	0.924	1.38	0.2337	16.93
4039	4038	108.1	10	0.657	1.16	0.2144	18.48
4040	4039	202.7	10	1.433	1.72	0.2152	12.51

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Deign Storm Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
4041	4041A	53.6	8	4.134	1.61	0.0632	3.93
4041A	4040	75.8	10	0.654	1.16	0.2132	18.38
4042	4041	295.3	8	2.169	1.17	0.0632	5.40
4043	4042	305.6	8	2.227	1.18	0.0632	5.36
4044	4043	265.3	8	3.022	1.38	0.0632	4.58
4045	4044	408.7	8	5.038	1.78	0.0632	3.55
4046	4045	154.6	8	0.358	0.47	0.0632	13.45
4047	4046	48.8	8	0.543	0.58	0.0439	7.57
4048	4047	284.9	8	0.428	0.52	0.0423	8.13
4049	4048	195.4	6	5.202	0.84	0.0086	1.02
4049A	4049	50.3	6	1.301	0.42	0.0023	0.55
4050	4049	229.4	6	5.514	0.87	0.0052	0.60
4051	4048	333.4	8	0.365	0.48	0.0282	5.88
4052	4051	202.7	8	0.29	0.42	0.024	5.71
4054	4052	61.5	8	0.488	0.55	0.022	4.00
4055	4054	187.9	6	6.802	0.96	0.0051	0.53
4056	4054	165.2	6	9.342	1.13	0.0147	1.30
4056A	4056	121.6	6	0.703	0.31	0.003	0.97
4057	4056	60.8	6	0.441	0.24	0.0117	4.88
4057A	4057	153.6	6	8.685	1.09	0.0029	0.27
4058	4057	155.4	6	8.617	1.08	0.0088	0.81
4059	4058	158	6	3.709	0.71	0.0058	0.82
4059B	4059A	50.8	6	1.644	0.47	0.0014	0.30
4060	4059	187.1	6	1.735	0.49	0.002	0.41
4060A	4060	49.9	6	11.123	1.23	0.0011	0.09
4061	4046	7.5	8	10.987	2.64	0.0193	0.73
4062	4061	218.7	6	0.304	0.2	0.0178	8.90
4063	4062	180.9	6	1.77	0.49	0.0159	3.24
4063A	4063	200.6	6	2.731	0.61	0.0031	0.51
4063B	4063	160.1	6	7.027	0.98	0.0108	1.10
4063C	4063B	34.1	6	12.566	1.31	0.0108	0.82
4063D	4063C	364.8	6	7.202	0.99	0.0069	0.70
4063E	4063D	92.8	6	2.592	0.59	0.0031	0.53
4063F	4063E	50	6	2.618	0.6	0.0011	0.18
4064	4071A	295.4	6	0.61	0.29	0.0877	30.24
4065	4064	300.7	6	7.7	1.02	0.0808	7.92
4066	4065	457.3	6	2.667	0.6	0.0707	11.78
4067	4066	271.2	6	0.72	0.31	0.0644	20.77
4067A	4067	134.7	6	1.896	0.51	0.0609	11.94
4068	4065	216.5	6	1.899	0.51	0.0065	1.27
4069	4068	262.4	6	1.183	0.4	0.0021	0.53
4070	4041A	484.2	10	0.722	1.22	0.1523	12.48

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Deign Storm Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
4071	4071B	80.8	10	10.713	4.71	0.0233	0.49
4071A	4070	39.6	10	4.295	2.98	0.1393	4.67
4071B	4071A	121.5	10	3.598	2.73	0.0246	0.90
4072	4071	257.8	6	0.829	0.33	0.0219	6.64
4073	4072	131.8	6	0.835	0.34	0.0208	6.12
4074	4073	346.5	6	0.581	0.28	0.0177	6.32
4075	4074	324.5	8	0.501	0.56	0.0149	2.66
4076	4075	156.4	6	3.281	0.67	0.0057	0.85
4078	4075	289.1	6	5.813	0.89	0.0039	0.44
4080	4071A	268.6	6	3.485	0.69	0.0286	4.14
4081	4080	50	6	5.166	0.84	0.0286	3.40
4083	4082	188.6	6	0.294	0.2	0.0246	12.30
4084	4083	145.4	6	1.079	0.38	0.0228	6.00
4085	4084	182.5	6	0.258	0.19	0.0205	10.79
4086	4085	310.1	6	0.351	0.22	0.0055	2.50
4086A	4086	168.3	6	0.146	0.14	0.0026	1.86
4087	4085	158	6	10.536	1.2	0.0115	0.96
4088	4087	404.6	6	1.749	0.49	0.009	1.84
4092	4091	177.3	12	0.488	1.62	1.5396	95.04
4093	4093A	90.2	12	0.157	0.92	1.5396	167.35
4093A	4092	177.4	12	0.485	1.62	1.5396	95.04
4094	4094A	179.9	6	8.546	1.08	0.0046	0.43
4094A	4093	368.4	6	1.314	0.42	0.008	1.90
4095	4093	262.1	12	0.071	0.61	1.5338	251.44
4096	4095	195.7	6	1.316	0.42	0.0383	9.12
4097	4096	356.8	6	0.575	0.28	0.0402	14.36
4098	4097	237.1	6	3.507	0.69	0.0024	0.35
4099	4097	226.3	6	2.497	0.58	0.0246	4.24
4100	4099	345.3	6	5.303	0.85	0.0197	2.32
4101	4100	171.9	6	1.699	0.48	0.0043	0.90
4102	4102A	150.7	6	2.716	0.61	0.0131	2.15
4102A	4100	25.1	6	2.697	0.61	0.0154	2.52
4103	4102	245.8	6	3.026	0.64	0.0081	1.27
4104	4103	191.4	6	4.429	0.78	0.0055	0.71
4107	4097	174.1	6	5.348	0.85	0.0065	0.76
4108	4107	130.1	6	6.268	0.92	0.0052	0.57
4109	4095	338.7	12	0.275	1.22	1.4967	122.68
4109A	4109	152.9	6	6.098	0.91	0.0028	0.31
4109B	4109A	151.4	6	10.029	1.17	0	0.00
4109C	4109B	175.4	6	6.026	0.91	0	0.00
4110	4109	287.5	12	0.17	0.95	1.4967	157.55
4111	4110	211.8	12	0.353	1.38	1.4968	108.46

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Deign Storm Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
4112	4111	178.8	8	0.249	0.39	0.058	14.87
4113	4112	500.5	8	0.941	0.77	0.0365	4.74
4114	4113	379.4	8	1.216	0.87	0.0233	2.68
4115	4114	364.7	8	3.643	1.52	0.0178	1.17
4118	4111	136.5	12	0.353	1.38	1.4646	106.13
4119	4118	50.1	12	0.353	1.38	1.4648	106.14
4120	4119	127.4	6	3.867	0.73	0.019	2.60
4121	4120	287	6	4.502	0.78	0.0174	2.23
4122	4119	145.9	12	0.455	1.57	1.4536	92.59
4123	4122	211.1	12	0.647	1.87	1.4532	77.71
4124	4123	230.6	12	0.16	0.93	1.4572	156.69
4125	4124	419.4	12	0.231	1.11	1.4618	131.69
4126	4126A	138.9	8	3.102	1.4	0.0144	1.03
4126A	4125	151.3	8	1.503	0.97	0.0411	4.24
4127	4126	208.5	6	4.507	0.78	0.0026	0.33
4128	4126	173.7	6	2.593	0.59	0.006	1.02
4129	4128	260	6	4.32	0.77	0.0029	0.38
4130	4128	101.4	6	0.988	0.37	0.0012	0.32
4132	4131	188.2	12	0.214	1.07	1.475	137.85
4133	4132	248.4	12	0.417	1.5	1.6166	107.77
4134	4133	313.5	12	0.241	1.14	1.411	123.77
4135	4133	189.4	10	1.951	2.01	0.2233	11.11
4136	4135	176.2	10	2.274	2.17	0.1495	6.89
4137	4135	141.7	8	2.121	1.16	0.0756	6.52
4138	4137	172.9	6	0.696	0.31	0.0088	2.84
4139	4138	98.1	6	1.345	0.43	0.0018	0.42
4140	4138	288.6	6	2.657	0.6	0.002	0.33
4141	4137	358.4	6	1.436	0.44	0.065	14.77
4142	4138	193.8	6	5.079	0.83	0.0031	0.37
4143	4141	171.9	6	0.551	0.27	0.0631	23.37
4144	4143	32.3	6	1.975	0.52	0.062	11.92
4145	4144	193.9	6	1.372	0.43	0.0316	7.35
4146	4144	143.8	6	1.261	0.41	0.0293	7.15
4147	4146	153.4	6	0.928	0.35	0.0271	7.74
4149	4147	84.7	6	1.398	0.44	0.0245	5.57
4150	4149	402	6	3.743	0.71	0.0041	0.58
4151A	4151	95.5	6	7.024	0.98	0.0036	0.37
4152	4151	427	6	1.451	0.44	0.0108	2.45
4153	4152	142.5	6	3.097	0.65	0.0021	0.32
4154	4152	219.3	6	2.271	0.56	0.003	0.54
4155	4154	262.8	6	2.344	0.56	0.002	0.36
4156	4145	197.2	6	3.689	0.71	0.012	1.69

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
4157	4145	224.2	6	0.401	0.23	0.0154	6.70
4158	4156	286.5	6	2.125	0.54	0.0087	1.61
4159	4158	47.2	6	14.081	1.39	0.0065	0.47
4160	4158	102.1	6	5.631	0.88	0.0023	0.26
4161	4159	140.8	6	2.77	0.61	0.0054	0.89
4162	4161	71.1	6	1.972	0.52	0.0042	0.81
4163	4157	246.1	6	4.824	0.81	0.0114	1.41
4164	4163	111.7	6	2.198	0.55	0.0065	1.18
4165	4164	127.1	6	1.317	0.42	0.0036	0.86
4166	4136	219.9	8	3.206	1.42	0.0068	0.48
4167	4166	287.5	8	1.372	0.93	0.0026	0.28
4168	4136	293.4	10	0.583	1.09	0.1402	12.86
4169	4168	66.2	10	0.256	0.72	0.1364	18.94
4171	4170	181.8	10	0.772	1.26	0.1355	10.75
4172	4171	194.9	8	1.853	1.08	0.0136	1.26
4173	4172	140.7	8	1.08	0.82	0.0104	1.27
4174	4173	140	8	1.722	1.04	0.0041	0.39
4175	4173	201.4	8	2.321	1.21	0.0023	0.19
4176	4171	113	10	0.442	0.95	0.1216	12.80
4177	4176	287.3	10	1.084	1.49	0.119	7.99
4178	4177	125.5	8	1.685	1.03	0.0122	1.18
4179	4178	385.7	8	1.137	0.84	0.0074	0.88
4180	4179	139.6	8	0.808	0.71	0.0042	0.59
4181	4177	211	10	0.379	0.88	0.1036	11.77
4182	4181	290.9	6	0.518	0.26	0.0175	6.73
4183	4182	289.3	6	1.515	0.45	0.0051	1.13
4184	4182	181.8	6	0.549	0.27	0.008	2.96
4185	4184	282.7	6	0.785	0.33	0.0048	1.45
4186	4181	59.6	10	2.102	2.08	0.0845	4.06
4187	4186	150.5	10	1.191	1.57	0.0845	5.38
4188	4187	91.7	10	0.434	0.94	0.0836	8.89
4190	4188	128.6	8	0.726	0.67	0.0705	10.52
4191	4190	316.8	8	1.714	1.04	0.0578	5.56
4192	4191	255.9	8	1.318	0.91	0.0231	2.54
4193	4191	261.1	8	2.888	1.35	0.0275	2.04
4194	4193	276.9	8	0.388	0.49	0.0219	4.47
4194A	4194	220.3	8	2.737	1.31	0.0034	0.26
4195	4194	203.2	8	1.168	0.86	0.0141	1.64
4196	4195	59.1	8	1.269	0.89	0.0142	1.60
4197	4196	279.9	8	0.468	0.54	0.0142	2.63
4198	4192	187.2	6	0.563	0.28	0.0026	0.93
4199	4192	191.6	8	0.308	0.44	0.0205	4.66

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
4199A	4199	184	8	0.204	0.36	0.0182	5.06
4199B	4199A	280.7	8	0.257	0.4	0.0104	2.60
4199C	4199B	61.7	8	0.642	0.63	0.0065	1.03
4199D	4199C	132.6	8	0.661	0.64	0.0013	0.20
4200	4190	250.1	6	2.753	0.61	0.0075	1.23
4201	4200	410	6	1.518	0.45	0.0037	0.82
4203	4202	173.5	6	0.532	0.27	0.0037	1.37
4204	4134	378.6	10	1.456	1.73	1.2749	73.69
4205	4204	293.1	10	0.381	0.88	1.2403	140.94
4206	4134	294	10	2.119	2.09	0.1669	7.99
4207	4204	229.6	6	1.166	0.4	0.0336	8.40
4208	4206	219.1	6	3.158	0.66	0.0044	0.67
4208A	4208	88.7	6	5.32	0.85	0.001	0.12
4209	4206	180	6	1.807	0.49	-0.004	-0.82
4210	4206	151	10	3.102	2.53	0.171	6.76
4211	4210	42.7	10	5.607	3.41	0.1709	5.01
4212	4211	81.1	6	0.646	0.29	0.0033	1.14
4213	LS-16_WW	12.5	8	0.917	0.76	0.033	4.34
4214	4213	160.2	8	0.997	0.79	0.0307	3.89
4215	4214	242.7	8	1.721	1.04	0.0076	0.73
4216	4215	337.6	8	3.371	1.46	0.0032	0.22
4217	4214	258.4	8	0.154	0.31	0.0202	6.52
4218	4217	253.3	8	1.578	1	0.0153	1.53
4219	4218	306.6	8	3.779	1.54	0.0111	0.72
4220	4219	179.2	8	1.267	0.89	0.0023	0.26
4221	4219	257.3	8	4.205	1.63	0.0045	0.28
4222	4221	9.4	8	2.234	1.19	0.003	0.25
4223	4222	247.4	8	0.649	0.64	0.0009	0.14
4224	4211	136.5	10	0.791	1.27	0.1672	13.17
4225	4224	101.7	6	5.866	0.89	0.0022	0.25
4226	4224	36.8	10	1.065	1.48	0.1658	11.20
4227	4226	34.9	6	3.837	0.72	0.003	0.42
4228	4227	152.2	6	4.361	0.77	0.0019	0.25
4229	4226	275.1	10	1.679	1.86	0.1634	8.78
4230	4229	231.3	10	0.985	1.42	0.1636	11.52
4232	4230	199	10	2.417	2.23	0.1564	7.01
4233	4232	189.6	10	2.743	2.38	0.1551	6.52
4234	4233	54.2	10	0.725	1.22	0.154	12.62
4235	4234	210.9	6	6.814	0.96	0.0109	1.14
4236	4234	131.2	10	1.59	1.81	0.1444	7.98
4237	4235	244.5	6	8.621	1.08	0.0058	0.54
4238	4236	296.5	8	1.73	1.04	0.1308	12.58

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
4239	4236	180.4	8	3.874	1.56	0.016	1.03
4240	4239	234.8	8	3.445	1.47	0.0157	1.07
4241	4240	268.1	8	5.866	1.92	0.0114	0.59
4242	4241	406.4	8	0.705	0.66	0.0079	1.20
4243	4241	89.8	8	7.689	2.2	0.0024	0.11
4244	4238	192.1	8	2.186	1.17	0.1294	11.06
4245	4244	250.4	8	2.481	1.25	0.1267	10.14
4246	4245	277.8	8	1.608	1.01	0.1215	12.03
4247	4246	139.6	8	4.077	1.6	0.1219	7.62
4248	4247	552.3	8	0.989	0.79	0.1135	14.37
4249	4248	406	8	6.869	2.08	0.0052	0.25
4250	4248	129.2	8	1.291	0.9	0.1074	11.93
4252	4251	137.5	6	6.715	0.96	0.0154	1.60
4253	4252	281.4	6	0.909	0.35	0.0119	3.40
4254	4253	87.2	6	3.812	0.72	0.0092	1.28
4257	4256	140.6	6	1.661	0.47	0.0315	6.70
4258	4257	262.1	6	3.396	0.68	0.0184	2.71
4259	4258	271.5	6	2.632	0.6	0.0121	2.02
4259A	4259	73.2	6	3.077	0.65	0.0021	0.32
4260	4257	87.8	6	1.617	0.47	0.012	2.55
4261	4260	279.4	6	0.702	0.31	0.0099	3.19
4262	4261	108.4	6	0.727	0.31	0.0034	1.10
4263	4262	127.4	6	5.644	0.88	0.0022	0.25
4266	4259	162.7	6	6.714	0.96	0.0078	0.81
4267	4266	177.2	6	3.528	0.69	0.0042	0.61
4268	4261	173.4	6	1.463	0.45	0.0043	0.96
4269	4268	260.7	6	7.768	1.03	0.0023	0.22
4270	4207	100	6	1.245	0.41	0.0173	4.22
4273	4207	301.1	6	2.253	0.55	0.0113	2.05
4274	4273	198	6	6.759	0.96	0.0101	1.05
4275	4274	333.6	6	9.899	1.16	0.006	0.52
4276	4205	122.1	10	0.287	0.77	1.2232	158.86
4277	4205	237.8	8	2.473	1.25	0.0222	1.78
4278	4277	97.1	8	4.646	1.71	0.0134	0.78
4279	4278	280.5	8	0.845	0.73	0.0091	1.25
4280	4279	148	8	0.693	0.66	0.0033	0.50
4282	4276	81	8	6.264	1.99	0.0572	2.87
4283	4282	250.9	6	0.861	0.34	0.0575	16.91
4284	4283	96	6	0.842	0.34	0.0021	0.62
4285	4283	227.1	6	0.498	0.26	0.0509	19.58
4286	4285	161	6	0.835	0.34	0.0476	14.00
4287	4286	162.7	6	0.891	0.35	0.0438	12.51

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
4288	4287	231.2	6	1.155	0.4	0.0404	10.10
4289	4288	92	6	0.833	0.34	0.0054	1.59
4290	4288	206.8	6	0.763	0.32	0.0331	10.34
4291	4290	291.8	6	1.971	0.52	0.0298	5.73
4292	4291	317.1	6	1.906	0.51	0.0229	4.49
4293	4292	281.3	6	2.163	0.54	0.0161	2.98
4294	4293	308.6	6	4.351	0.77	0.01	1.30
4295	4294	189.8	6	5.113	0.83	0.0037	0.45
4296	4281	298.2	8	2.141	1.16	0.0676	5.83
4297	4296	20.6	6	1.733	0.48	0.0729	15.19
4298	4297	304.2	6	2.28	0.56	0.0358	6.39
4299	4298	296	6	0.376	0.22	0.0336	15.27
4301	4300	400.3	6	0.442	0.24	0.0292	12.17
4302	4301	204.3	6	2.707	0.61	0.0276	4.52
4303	4302	277.4	6	3.69	0.71	0.0191	2.69
4304	4303	264.4	6	1.206	0.4	0.0158	3.95
4305	4305A	450	6	3.947	0.73	0.0092	1.26
4305A	4304	212.5	6	0.469	0.25	0.0128	5.12
4307	4297	175	6	5.169	0.84	0.0365	4.35
4308	4307	117	6	4.49	0.78	0.0021	0.27
4309	4307	125	6	1.688	0.48	0.0344	7.17
4310	4309	310.6	6	1.95	0.51	0.0151	2.96
4311	4309	131.3	6	7.157	0.99	0.0181	1.83
4312	4311	312.5	6	4.592	0.79	0.0047	0.59
4313	4311	186.2	6	7.182	0.99	0.008	0.81
4314	4313	273	6	6.222	0.92	0.0038	0.41
4315	4310	360.5	6	0.877	0.34	0.014	4.12
4316	4315	298.1	6	0.623	0.29	0.0116	4.00
4317	4316	152.1	6	1.773	0.49	0.0104	2.12
4318	4317	345.9	6	4.158	0.75	0.0036	0.48
4320	4319	191.8	8	5.62	1.88	0.0756	4.02
4321	4320	220.9	8	1.079	0.82	0.0746	9.10
4322	4321	198.2	8	0.216	0.37	0.0571	15.43
4323	4321	252.3	8	0.493	0.56	0.011	1.96
4324	4323	198	8	0.562	0.59	0.0048	0.81
4325	4322	227.7	6	0.748	0.32	0.0552	17.25
4328	4319	303.3	10	0.722	1.22	1.0678	87.52
4329	4328	311.1	10	0.623	1.13	1.1273	99.76
4330	4329	240.4	10	0.709	1.21	0.7712	63.74
4331	4329	322	8	2.228	1.18	0.3578	30.32
4332	4331	506.8	8	0.62	0.62	0.3579	57.73
4333	4332	255.2	8	1.39	0.93	0.3448	37.08

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
4334	4332	348.2	8	0.585	0.6	0.0149	2.48
4335	4334	202.3	8	0.592	0.61	0.0066	1.08
4336	4335	420.9	8	1.328	0.91	0.0046	0.51
4338	4333	249.6	8	1.003	0.79	0.3118	39.47
4339	4338	228.7	8	1.641	1.02	0.299	29.31
4340	4338	302.1	8	2.046	1.13	0.0154	1.36
4341	4340	291.9	8	0.449	0.53	0.008	1.51
4342	4341	306.4	8	1.917	1.1	0.0044	0.40
4343	4339	81.7	8	3.647	1.52	0.0507	3.34
4344	4343	216.9	8	0.506	0.56	0.0312	5.57
4345	4343	290.3	8	0.287	0.42	0.0195	4.64
4346	4345	404.5	8	2.226	1.18	0.0096	0.81
4347	4346	343.7	8	1.241	0.88	0.0041	0.47
4348	4344	227.1	8	2.292	1.2	0.0269	2.24
4349	4348	581.3	8	0.436	0.52	0.0249	4.79
4350	4349	404.4	8	2.945	1.36	0.0174	1.28
4351	4350	170.8	8	5.031	1.78	0.002	0.11
4352	4350	241.1	8	0.383	0.49	0.0124	2.53
4353	4352	317.6	8	0.331	0.45	0.0068	1.51
4354A	4354B	324.2	10	2.381	2.22	0.4804	21.64
4354B	4354C	277.4	10	0.403	0.91	0.4806	52.81
4354C	4354D	250	10	0.365	0.86	0.7718	89.74
4354D	4330	247.8	10	0.88	1.35	0.7714	57.14
4355	4354	320.9	10	0.439	0.95	0.4353	45.82
4357	4355	39.5	10	0.742	1.23	0.4321	35.13
4358	4357	112.8	10	1.574	1.8	0.4289	23.83
4359	4358	152.1	8	0.813	0.71	0.2467	34.75
10070	10065	299.8	8	0.537	0.58	0.1005	17.33
10075	10080	233.8	6	0.844	0.34	0.0007	0.21
10080	10085	236.1	6	0.789	0.33	0.0074	2.24
10085	10095	302.2	6	4.204	0.76	0.0081	1.07
10090	10070	182.8	8	2.292	1.2	0.1005	8.38
10095	10090	403.7	8	1.732	1.04	0.1005	9.66
10100	10095	288.7	8	0.712	0.67	0.0901	13.45
10105	10100	313.9	8	0.535	0.58	0.0885	15.26
10110	10105	369.3	8	0.409	0.51	0.0459	9.00
10115	10105	187.3	6	3.157	0.65	0.0375	5.77
10120	10115	362.3	6	1.087	0.38	0.0131	3.45
10125	10115	358.8	6	0.507	0.26	0.0215	8.27
10130	10125	361	6	0.765	0.32	0.0188	5.88
10135	10125	144.7	6	6.144	0.91	0.0007	0.08
10140	10130	358.4	6	0.547	0.27	0.0155	5.74

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10145	10140	367.2	6	0.282	0.19	0.0102	5.37
10150	10145	364.2	6	0.896	0.35	0.0054	1.54
10155	10150	258.2	6	0.72	0.31	0.0028	0.90
10160	10120	360.1	6	0.759	0.32	0.0069	2.16
10165	10160	357.4	6	0.599	0.28	0.0041	1.46
10170	10165	284.7	6	0.576	0.28	0.0011	0.39
10175	10110	184.9	8	0.487	0.55	0.0446	8.11
10180	10175	359.6	8	0.328	0.45	0.0414	9.20
10185	10180	342.9	8	0.547	0.58	0.038	6.55
10186	10185	149.9	6	1.164	0.4	0.0026	0.65
10190	10185	412.1	8	0.219	0.37	0.0322	8.70
10195	10190	371.5	8	0.657	0.64	0.0298	4.66
10200	10195	132.8	8	0.367	0.48	0.0267	5.56
10205	10200	217.4	8	0.374	0.48	0.025	5.21
10210	10205	358.7	8	0.244	0.39	0.0221	5.67
10215	10205	250.5	8	1.47	0.96	0	0.00
10220	10210	243.6	8	1.283	0.9	0.0014	0.16
10225	10210	198.3	6	0.781	0.32	0.0178	5.56
10230	10220	32.1	8	1.495	0.97	0	0.00
10235	10230	100.2	8	14.591	3.04	0	0.00
10240	10225	186.1	6	0.793	0.33	0.0166	5.03
10245	10240	203.5	6	1.346	0.43	0.0033	0.77
10250	10240	348.3	6	0.576	0.28	0.0104	3.71
10255	10250	125.4	6	0.281	0.19	0.0043	2.26
10260	10250	361	6	0.309	0.2	0.0042	2.10
10265	10260	256.4	6	1.131	0.39	0.0035	0.90
10275	10270	206.1	8	0.238	0.38	0.0253	6.66
10280	10270	243.5	8	0.126	0.28	0.0839	29.96
10285	10275	383.9	8	0.185	0.34	0.0219	6.44
10290	10285	459.8	8	0.405	0.5	0.0124	2.48
10295	10290	235.9	8	1.073	0.82	0.0034	0.41
10300	10280	350.1	8	0.201	0.35	0.0225	6.43
10305	10280	181.6	8	0.145	0.3	0.0569	18.97
10310	10300	234.7	8	0.588	0.61	0.0157	2.57
10315	10310	154.6	8	1.372	0.93	0.0122	1.31
10320	10315	240.9	8	1.029	0.8	0.0074	0.93
10325	10320	87.4	8	2.862	1.34	0.0036	0.27
10335	10330	175.6	8	0.601	0.61	0.0157	2.57
10340	10330	133.2	8	5.189	1.81	0.0238	1.31
10345	10335	117.1	8	0.985	0.79	0.0138	1.75
10350	10345	267.6	8	3.017	1.38	0.0088	0.64
10355	10350	241	8	3.226	1.43	0.0045	0.31

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
10360	10340	281.3	8	1.948	1.11	0.0048	0.43
10365	10340	299	8	3.626	1.51	0.0158	1.05
10370	10365	375.2	8	1.532	0.98	0.0093	0.95
10375	10370	212.3	8	1.176	0.86	0.0036	0.42
10380	10375	132.2	8	2.656	1.29	0.0015	0.12
10385	10305	173.4	8	0.305	0.44	0.0554	12.59
10390	10385	97.3	8	0.844	0.73	0.0237	3.25
10395	10385	227.8	8	0.263	0.4	0.0343	8.58
10410	10390	318.2	8	0.314	0.44	0.0201	4.57
10430	10425	199.6	6	2.335	0.56	0.0183	3.27
10435	10425	176	6	1.649	0.47	0.0042	0.89
10440	10430	275.7	6	1.471	0.45	0.0114	2.53
10445	10430	314.1	6	0.804	0.33	0.0031	0.94
10450	10440	341.2	6	0.691	0.31	0.0065	2.10
10465	10460	354.9	12	0.682	1.92	0.8798	45.82
10470	10465	198.5	8	1.884	1.09	0.0639	5.86
10475	10465	246	12	0.522	1.68	0.821	48.87
10480	10470	304.5	8	4.118	1.61	0.0629	3.91
10485	10480	176	6	1.382	0.43	0.0052	1.21
10490	10480	242.8	8	1.757	1.05	0.058	5.52
10495	10485	81	6	12.252	1.29	0.0052	0.40
10500	10490	160.5	8	5.088	1.79	0.058	3.24
10505	10500	321.9	8	0.734	0.68	0.0516	7.59
10510	10505	349.1	8	0.169	0.32	0.0506	15.81
10515	10510	394.4	8	0.442	0.53	0.0433	8.17
10530	10525	341.4	6	1.632	0.47	0.0022	0.47
10535	10525	422.6	8	0.621	0.62	0.0222	3.58
10550	10545	261	8	0.316	0.44	0.0035	0.80
10555	10475	239.3	12	0.412	1.49	0.8263	55.46
10560	10555	382	12	0.896	2.2	0.8336	37.89
10565	10560	340.4	12	1.063	2.4	0.8442	35.18
10570	10565	223.8	6	4.593	0.79	0.0105	1.33
10575	10565	234.8	8	2.929	1.36	0.6194	45.54
10580	10570	336.9	6	2.526	0.59	0.0055	0.93
10585	10580	303.1	6	3.851	0.72	0.0019	0.26
10590	10575	238.5	8	0.735	0.68	0.6179	90.87
10595	10590	306.9	6	1.749	0.49	0.037	7.55
10600	10590	100.3	8	1.703	1.03	0.5858	56.87
10605	10595	165	6	0.176	0.15	0.0258	17.20
10610	10605	274.3	6	1.836	0.5	0.0205	4.10
10615	10610	77.6	6	1.43	0.44	0.0177	4.02
10620	10615	157	6	1.166	0.4	0.0149	3.73

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
10625	10620	377.1	6	0.82	0.33	0.0062	1.88
10630	10620	496.7	6	2.395	0.57	0.0041	0.72
10635	10600	354.2	8	0.653	0.64	0.4888	76.38
10640	10600	144.3	8	1.038	0.81	0.0975	12.04
10645	10640	145	8	2.168	1.17	0.013	1.11
10650	10640	285.2	8	1.639	1.02	0.0816	8.00
10655	10645	399.3	8	0.754	0.69	0.0071	1.03
10660	10655	267.1	8	0.569	0.6	0.0039	0.65
10665	10650	398.2	8	0.797	0.71	0.075	10.56
10670	10635	46.6	6	16.938	1.52	0.0146	0.96
10675	10635	404.2	8	0.747	0.68	0.475	69.85
10680	10670	336.6	6	1.241	0.41	0.0123	3.00
10690	10675	345.7	6	4.496	0.78	0.0076	0.97
10700	10675	131.5	8	2.183	1.17	0.011	0.94
10705	10690	271.5	6	0.711	0.31	0.0028	0.90
10725	10710	385.6	6	0.187	0.16	0.0061	3.81
10730	10715	130.9	6	5.264	0.85	0.0185	2.18
10735	10715	243.5	8	0.152	0.31	0.3706	119.55
10740	10715	88.8	6	5.417	0.86	0.0092	1.07
10745	10730	372.9	6	0.609	0.29	0.0127	4.38
10750	10745	359.3	6	1.057	0.38	0.0069	1.82
10755	10750	172.8	6	0.508	0.26	0.003	1.15
10760	10735	123.1	8	1.176	0.86	0.3722	43.28
10765	10760	225.2	8	0.432	0.52	0.2132	41.00
10770	10720	353.2	6	0.552	0.27	0.0539	19.96
10775	10770	161.5	6	0.954	0.36	0.0486	13.50
10780	10775	130.6	6	0.679	0.3	0.0406	13.53
10785	10775	240.7	6	0.825	0.33	0.0073	2.21
10795	10740	257.4	6	0.417	0.24	0.0059	2.46
10800	10765	252.9	8	0.279	0.42	0.1989	47.36
10805	10800	263.1	8	0.469	0.54	0.202	37.41
10810	10805	239.9	8	0.7	0.66	0.1914	29.00
10815	10810	370.2	8	0.162	0.32	0.1808	56.50
10820	10815	309.3	8	0.573	0.6	0.1898	31.63
10825	10820	390.9	8	0.33	0.45	0.1932	42.93
10830	10825	247.8	6	1.933	0.51	0.0016	0.31
10835	10825	114.8	8	0.209	0.36	0.1957	54.36
10840	10835	238.3	6	2.501	0.58	0.0061	1.05
10845	10835	348.3	8	0.505	0.56	0.1918	34.25
10850	10835	145	6	2.456	0.58	0.0041	0.71
10860	10845	371.5	8	0.923	0.76	0.1501	19.75
10865	10845	361.8	6	0.453	0.25	0.0405	16.20

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
10870	10865	359.6	6	0.742	0.32	0.0327	10.22
10875	10870	209.7	6	1.588	0.46	0.0035	0.76
10880	10870	196.7	6	0.802	0.33	0.0257	7.79
10885	10860	247.7	8	1.332	0.91	-0.0023	-0.25
10890	10860	362.1	8	0.52	0.57	0.1455	25.53
10895	10890	365.5	8	0.697	0.66	0.1406	21.30
10900	10895	167	6	0.174	0.15	0.0258	17.20
10905	10895	249.7	6	1.039	0.37	0.0125	3.38
10910	10900	241.9	6	0.591	0.28	0.0028	1.00
10915	10900	179.4	6	0.702	0.31	0.0016	0.52
10930	10925	336.9	8	2.836	1.34	0.0453	3.38
10935	10925	294.2	8	3.588	1.5	0.0165	1.10
10940	10930	190	8	1.144	0.85	0.0406	4.78
10945	10940	263.8	8	0.334	0.46	0.0277	6.02
10950	10940	327.8	8	1.684	1.03	0.0087	0.84
10955	10945	106.2	8	0.789	0.7	0.0251	3.59
10960	10955	402.5	8	0.56	0.59	0.0067	1.14
10970	10935	252.8	8	2.763	1.32	0.0101	0.77
10975	10970	156.7	8	1.436	0.95	0.0057	0.60
10980	10950	231.2	8	0.532	0.58	0.0032	0.55
10990	10700	51.8	8	16.038	3.19	0.003	0.09
10995	10700	62.8	8	0.975	0.78	0.0058	0.74
11000	10995	130.6	8	1.101	0.83	0.0026	0.31
11010	11005	347.6	8	1.239	0.88	0.1474	16.75
11015	11005	148.4	8	0.486	0.55	0.1777	32.31
11020	11010	140.9	8	0.616	0.62	0.146	23.55
11025	11020	398.3	8	0.403	0.5	0.1446	28.92
11030	11025	93.7	8	0.484	0.55	0.1305	23.73
11035	11025	271.3	8	0.241	0.39	0.0141	3.62
11040	11015	248	8	2.509	1.26	0.0508	4.03
11045	11040	220.8	8	0.848	0.73	0.0414	5.67
11050	11040	314.4	8	3.437	1.47	0.0069	0.47
11055	11045	195.1	8	0.667	0.65	0.041	6.31
11060	11055	217.1	8	2.161	1.17	0.0057	0.49
11065	11055	178.6	8	1.639	1.02	0.0348	3.41
11070	11065	136	8	0.095	0.24	0.0342	14.25
11075	11070	261.9	8	1.583	1	0.0402	4.02
11080	11075	206	8	0.114	0.26	0.0363	13.96
11085	11075	244.9	8	1.295	0.9	0.0057	0.63
11090	11085	181.1	8	0.811	0.71	0.0028	0.39
11095	11060	125.4	8	4.728	1.73	0.0027	0.16
11100	11050	227.7	8	3.492	1.48	0.0044	0.30

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
11105	11100	358.3	6	0.315	0.21	0.0022	1.05
11110	11030	150.1	8	2.841	1.34	0.1296	9.67
11115	11110	125.7	8	0.784	0.7	0.0082	1.17
11120	11110	119.7	8	1.93	1.1	0.1232	11.20
11125	11115	201.6	8	3.256	1.43	0.0074	0.52
11130	11125	284.9	8	1.107	0.83	0.0066	0.80
11135	11130	257.3	8	0.71	0.67	0.0039	0.58
11140	11135	86	8	0.872	0.74	0.0009	0.12
11145	11135	315.8	8	2.636	1.29	0.0017	0.13
11150	11145	98.8	8	1.788	1.06	0.0009	0.08
11155	11120	331.8	8	2.229	1.18	0.0209	1.77
11160	11120	58.6	8	0.256	0.4	0.1036	25.90
11165	11155	254.4	8	4.463	1.68	0.0017	0.10
11170	11155	256.7	8	0.454	0.53	0.0173	3.26
11175	11160	302.5	8	0.874	0.74	0.1036	14.00
11180	11175	293.1	8	0.193	0.35	0.1023	29.23
11185	11180	403.8	6	1.875	0.5	0.0552	11.04
11190	11180	174.7	8	0.337	0.46	0.0489	10.63
11195	11185	133	6	4.627	0.79	0.0552	6.99
11200	11185	175.9	6	1.069	0.38	-0.0001	-0.03
11205	11195	170.2	6	1.633	0.47	0.0552	11.74
11215	11205	348.6	6	0.163	0.15	0.0553	36.87
11220	11205	194.5	8	4.302	1.65	-0.0001	-0.01
11225	11220	97.8	6	1.542	0.46	0	0.00
11240	11235	197.8	6	1.036	0.37	0	0.00
11245	11190	185.3	8	1.219	0.87	0.0489	5.62
11250	11245	263.3	8	3.472	1.48	0.0489	3.30
11255	11250	384.7	6	0.71	0.31	0.0106	3.42
11260	11250	255.1	8	0.755	0.69	0.0386	5.59
11265	11255	255.2	6	0.421	0.24	0.0008	0.33
11275	11265	340	6	5.501	0.87	0.0005	0.06
11280	11275	294	6	2.023	0.52	0.0005	0.10
11285	11260	171.8	6	4.338	0.77	0.0224	2.91
11290	11260	350.5	8	1.243	0.88	0.0181	2.06
11295	11285	299.9	6	1.997	0.52	0.0103	1.98
11300	11285	497.6	6	0.837	0.34	0.0121	3.56
11310	11295	267.4	6	0.881	0.34	0.0103	3.03
11315	11310	240.8	6	1.363	0.43	0.0103	2.40
11320	11300	307.1	6	1.404	0.44	0.0121	2.75
11325	11290	229.2	8	0.334	0.46	0.0182	3.96
11330	11325	313.1	8	2.311	1.21	0.0182	1.50
11345	11170	355.3	6	0.781	0.32	0.0137	4.28

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
11350	11170	299.6	6	6.228	0.92	0.0036	0.39
11355	11345	334.2	8	0.758	0.69	0.0137	1.99
11360	11355	133.6	6	1.268	0.41	0.0137	3.34
11365	11360	388.5	6	1.201	0.4	0.0137	3.43
11380	11375	323.8	6	0.404	0.23	0.0003	0.13
11385	11380	123.1	6	0.896	0.35	0.0003	0.09
11390	11385	73.9	6	1.39	0.43	0.0003	0.07
11395	11215	281.7	6	2.819	0.62	-0.0002	-0.03
11400	11215	166.8	6	3.49	0.69	0.0553	8.01
11405	11400	153	6	0.645	0.29	0.0554	19.10
11410	11405	356	6	0.406	0.23	0.0554	24.09
11415	11410	306.4	6	1.669	0.48	0.0554	11.54
11420	11415	457	6	0.373	0.22	-0.0002	-0.09
11425	11420	281.7	6	5.646	0.88	0	0.00
11430	11035	133.9	8	5.612	1.88	0.0127	0.68
11435	11430	166.2	8	0.974	0.78	0.0127	1.63
11440	11435	175.5	8	0.363	0.48	0	0.00
11445	11435	222.6	6	3.572	0.7	0.0127	1.81
11450	11440	289.1	8	0.509	0.56	0	0.00
11455	11445	221.2	6	1.62	0.47	0.0127	2.70
11460	11455	176	6	0.589	0.28	0.0127	4.54
11470	11465	289.4	8	0.378	0.49	0.0102	2.08
11475	11465	284.8	6	1.762	0.49	0.0079	1.61
11480	11465	293.6	8	0.718	0.67	0.0296	4.42
11485	11480	275.8	6	5.092	0.83	0.008	0.96
11490	11485	240.1	6	2.858	0.62	0.0027	0.44
11495	11480	356.4	6	0.584	0.28	0.0178	6.36
11500	11495	304.2	6	0.533	0.27	0.013	4.81
11505	11500	194.2	6	0.559	0.27	0.0094	3.48
11510	11505	399.1	6	0.938	0.36	0.004	1.11
11515	11475	276.5	6	0.448	0.25	0.0033	1.32
11520	11470	120.8	8	0.529	0.57	0.0013	0.23
11525	11470	280.8	6	0.378	0.23	0.0069	3.00
11530	11525	93.4	6	0.378	0.23	0.0034	1.48
11535	11530	182.8	6	0.797	0.33	0.0028	0.85
11540	11541	56.5	8	2.202	1.18	0.0019	0.16
11541	12660	372.6	8	0.532	0.58	0.0057	0.98
12005	12000	162.7	6	5.275	0.85	0.0118	1.39
12010	12005	148.2	6	3.773	0.72	0.0065	0.90
12015	12005	82.2	6	6.98	0.98	0.0038	0.39
12020	12010	242	6	0.706	0.31	0.0043	1.39
12025	12020	206.5	6	0.311	0.2	0.0027	1.35

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
12030	12015	132.6	6	3.226	0.66	0.0017	0.26
12035	12000	409.8	10	1.124	1.52	0.3244	21.34
12040	12035	60.6	6	10.718	1.21	0.002	0.17
12045	12035	79.4	10	0.482	0.99	0.3321	33.55
12050	12045	250.5	10	0.525	1.04	0.3315	31.88
12055	12050	273.7	10	0.417	0.92	0.3369	36.62
12060	12055	312	10	0.952	1.4	0.3413	24.38
12065	12055	190.4	6	4.422	0.78	0.0126	1.62
12070	12065	208.2	6	1.359	0.43	0.0104	2.42
12075	12070	188	6	2.376	0.57	0.0044	0.77
12080	12070	300	6	0.681	0.3	0.0042	1.40
12085	12075	330.7	6	1.467	0.45	0.0025	0.56
12090	12060	99.7	8	1.481	0.96	0.198	20.63
12095	12060	281.5	10	1.414	1.71	0.15	8.77
12100	12060	197.3	6	6.755	0.96	0.0082	0.85
12105	12090	327.3	8	4.643	1.71	0.1947	11.39
12110	12105	261.4	6	4.469	0.78	0.1939	24.86
12115	12095	304	10	1.077	1.49	0.1377	9.24
12120	12095	147.8	6	6.715	0.96	0.0093	0.97
12125	12120	68.6	6	6.234	0.92	0.008	0.87
12130	12125	373.7	6	4.127	0.75	0.0042	0.56
12135	12115	85.2	10	1.556	1.79	0.1308	7.31
12140	12115	146.8	6	5.958	0.9	0.0062	0.69
12150	12135	260	10	4.078	2.9	0.1298	4.48
12155	12140	116.1	6	4.713	0.8	0.0059	0.74
12160	12155	348.3	6	3.051	0.64	0.0033	0.52
12165	12150	162.7	8	1.174	0.86	0.1289	14.99
12170	12165	280.6	8	0.606	0.62	0.1265	20.40
12175	12170	209	8	2.156	1.17	0.1195	10.21
12180	12170	344.7	8	3.123	1.4	0.0085	0.61
12185	12175	146.1	8	2.272	1.2	0.1204	10.03
12190	12185	339.3	8	1.455	0.96	0.12	12.50
12195	12190	272.9	8	0.524	0.57	-0.0212	-3.72
12200	12195	236.2	8	0.364	0.48	0.0092	1.92
12205	12100	372.9	6	3.686	0.71	0.0043	0.61
12220	12215	62.3	8	2.171	1.17	0.0193	1.65
12225	12220	190.3	8	0.634	0.63	0.0182	2.89
12230	12225	143.1	6	2.173	0.54	0.0083	1.54
12235	12225	320.3	6	1.352	0.43	0.0075	1.74
12240	12230	378	6	1.01	0.37	0.0042	1.14
12245	12235	54.6	6	3.384	0.68	0.0063	0.93
12250	12245	80.3	6	0.988	0.37	0.0053	1.43

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
12255	12250	246.9	6	2.586	0.59	0.0033	0.56
12280	12275	303.8	6	3.975	0.74	0.0076	1.03
12285	12280	266.3	6	2.072	0.53	0.0034	0.64
12295	12290	218.2	10	0.229	0.68	0.0942	13.85
12300	12295	83	8	2.282	1.2	0.0446	3.72
12305	12295	120.4	10	0.539	1.05	0.0497	4.73
12306	12305	164.4	10	0.539	1.05	0.0487	4.64
12310	12300	213.2	8	1.882	1.09	0.0431	3.95
12315	12310	312.4	8	1.36	0.92	0.0377	4.10
12320	12315	203.7	6	4.367	0.77	0.0127	1.65
12325	12315	47	8	3.052	1.39	0.0242	1.74
12330	12320	301.6	6	1.717	0.48	0.0095	1.98
12335	12330	345.5	6	3.598	0.7	0.0042	0.60
12345	12325	224.2	8	1.239	0.88	0.0213	2.42
12350	12345	202.6	6	4.717	0.8	0.0121	1.51
12370	12360	221.3	8	4.23	1.63	0.0029	0.18
12375	12370	213.3	8	1.27	0.89	0.0029	0.33
12380	12375	280.5	8	2.319	1.21	0.0029	0.24
12385	12350	62.8	6	2.114	0.54	0.0099	1.83
12390	12385	227.1	6	3.975	0.74	0.008	1.08
12395	12390	323.6	6	2.534	0.59	0.004	0.68
12400	12306	177	6	4.508	0.78	0.0124	1.59
12405	12306	132.7	10	0.539	1.05	0.0354	3.37
12410	12400	63.1	6	4.384	0.77	0.0101	1.31
12415	12410	248.5	6	0.913	0.35	0.0081	2.31
12420	12415	252.1	6	3.473	0.69	0.0039	0.57
12425	12405	72.7	10	0.539	1.05	0.0354	3.37
12430	12425	303.9	10	0.373	0.87	0.0333	3.83
12435	12430	238.9	8	0.494	0.56	0.0256	4.57
12440	12430	18.8	8	1.073	0.82	0.0053	0.65
12445	12440	196.1	8	1.229	0.88	0.0045	0.51
12450	12445	278	6	2.016	0.52	0.0018	0.35
12455	12445	24.8	8	1.291	0.9	0.0018	0.20
12460	12455	148.6	8	2.571	1.27	0.001	0.08
12465	12435	247.4	8	1.052	0.81	0.022	2.72
12470	12465	304.1	8	2.569	1.27	0.02	1.57
12485	12480	97.5	8	5.195	1.81	0.2453	13.55
12490	12485	207.2	8	2.623	1.29	-0.0054	-0.42
12495	12485	212.3	8	4.105	1.61	0.2567	15.94
12500	12495	202.6	8	3.101	1.4	-0.0063	-0.45
12505	12495	290	8	3.508	1.49	0.271	18.19
12510	12505	238.6	8	1.962	1.11	-0.0083	-0.75

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
12515	12505	306.3	8	3.741	1.54	0.2923	18.98
12525	12530	201.8	8	6.62	2.04	0.0035	0.17
12530	12535	153.6	8	4.897	1.76	0.0064	0.36
12535	12540	171	8	7.185	2.13	0.0064	0.30
12536	12535	224.5	8	7.956	2.24	0	0.00
12540	12545	160.5	8	3.865	1.56	0.0102	0.65
12545	12555	56.3	8	0.712	0.67	0.0106	1.58
12550	12540	367.9	8	4.941	1.77	0.003	0.17
12560	12555	85.5	8	1.809	1.07	0.002	0.19
12565	12560	297.1	8	1.956	1.11	0.0016	0.14
12570	12565	85.1	8	6.832	2.08	0	0.00
12580	12575	10.1	8	0.413	0.51	0.2516	49.33
12585	12575	136.5	8	3.995	1.59	0.1104	6.94
12590	12580	148.1	8	0.572	0.6	0.1994	33.23
12595	12590	285.3	8	0.346	0.46	0.0407	8.85
12600	12590	330	8	2.583	1.28	0.0143	1.12
12605	12595	202	8	0.346	0.46	0.0162	3.52
12610	12595	357.5	8	1.766	1.05	0.0231	2.20
12615	12605	120.2	8	0.346	0.46	0.0149	3.24
12620	12615	131.4	8	1.311	0.91	0.0114	1.25
12625	12615	118.3	8	1.862	1.08	0.0023	0.21
12630	12620	154	8	0.286	0.42	0.0029	0.69
12635	12620	209.1	8	0.334	0.46	0.0073	1.59
12640	12635	162.6	8	0.315	0.44	0.0067	1.52
12645	12640	280.6	8	1.193	0.87	0.004	0.46
12650	12610	384.7	8	0.737	0.68	0.0209	3.07
12655	12650	174.3	8	0.901	0.75	0.0068	0.91
12660	12650	334	8	1.134	0.84	0.0107	1.27
12665	12655	250.3	8	0.288	0.42	0.0041	0.98
12670	12660	257.7	8	0.395	0.5	0.0008	0.16
12680	12600	302.6	8	1.752	1.05	0.0087	0.83
12685	12680	296.8	8	1.239	0.88	0.0042	0.48
12690	12585	293	8	2.073	1.14	0.0344	3.02
12695	12585	189.8	8	0.948	0.77	0.0518	6.73
12700	12690	390.2	8	1.145	0.85	0.0281	3.31
12705	12700	381	8	0.331	0.45	0.0225	5.00
12710	12705	182.1	8	0.626	0.63	0.0023	0.37
12715	12705	156.4	8	0.658	0.64	0.0182	2.84
12720	12715	299	8	0.31	0.44	0.0156	3.55
12725	12720	300.6	8	1.989	1.12	0.0114	1.02
12730	12725	300.2	8	1.617	1.01	0.0072	0.71
12735	12730	313.4	8	1.829	1.07	0.0035	0.33

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
12740	12695	134.9	8	1.379	0.93	0.0491	5.28
12745	12740	325.8	8	0.681	0.65	0.0465	7.15
12750	12745	244.9	8	0.318	0.45	0.0417	9.27
12755	12750	81.4	8	0.937	0.77	0.0212	2.75
12760	12750	119.6	8	1.112	0.84	0.0188	2.24
12765	12755	326	8	0.726	0.67	0.0175	2.61
12766	12765	132.7	8	1.713	1.04	0.0018	0.17
12780	12775	298.1	8	0.756	0.69	0.0077	1.12
12785	12780	298.8	8	0.868	0.74	0.0034	0.46
12790	12785	301	8	0.672	0.65	0.0007	0.11
12795	12760	98.3	8	0.417	0.51	0.0167	3.27
12800	12795	65.2	8	0.399	0.5	0.0154	3.08
12805	12800	324.2	8	0.799	0.71	0.0122	1.72
12810	12805	286.9	8	1.768	1.05	0.0083	0.79
12815	12810	289.7	8	0.477	0.55	0.0037	0.67
12825	12820	224.9	8	4.942	1.77	0.0027	0.15
20010	20005	124.1	24	0.741	12.54	2.4996	19.93
20015	20010	327.3	24	0.08	4.1	1.7737	43.26
20020	20015	378.3	24	0.012	1.59	1.7652	111.02
20025	20020	137.5	8	5.324	1.83	0.0089	0.49
20030	20020	294.9	24	0.041	2.91	1.7572	60.38
20035	20025	312.8	8	1.611	1.01	0.0092	0.91
20040	20035	134.4	8	0.64	0.63	0.0069	1.10
20045	20040	144.1	8	4.058	1.6	0.003	0.19
20050	20040	237.6	8	1.137	0.84	0.0034	0.40
20055	20050	193.8	8	0.107	0.26	0.0005	0.19
20060	20030	267.5	24	0.185	6.25	1.754	28.06
20065	20060	334.6	24	0.185	6.25	1.7069	27.31
20095	20095A	151.3	24	0.16	5.8	1.5147	26.12
20110	20105	326.3	12	0.089	0.69	0.2079	30.13
20115	20110	401.7	12	0.089	0.69	0.209	30.29
20120	20115	396.7	12	0.089	0.69	0.2106	30.52
20125	20120	318.6	12	0.185	1	0.2126	21.26
20130	20125	371.6	12	0.344	1.36	0.2137	15.71
20135	20130	189	12	0.344	1.36	0.2141	15.74
20140	20135	400	12	0.172	0.96	0.1911	19.91
20145	20140	257.8	12	0.147	0.89	0.192	21.57
20150	20145	202.9	12	0.241	1.14	0.1931	16.94
20155	20150	310.7	12	0.167	0.95	0.1938	20.40
20160	20155	12.2	12	0.427	1.52	0.1951	12.84
20165	20160	335.2	12	0.427	1.52	0.1237	8.14
20170	20160	342.4	10	0.633	1.14	0.0728	6.39

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
20175	20475	191.1	12	0.676	1.91	0.1256	6.58
20180	20175	372.3	12	0.529	1.69	0.1259	7.45
20185	20180	280.7	8	0.81	0.71	0.0715	10.07
20190	20180	113.5	12	0.035	0.43	0.0628	14.60
20195	20190	208.4	12	0.45	1.56	0.0627	4.02
20200	20195	340.7	12	0.27	1.21	0.0555	4.59
20205	20200	271.2	8	0.951	0.77	0.0003	0.04
20210	20200	156.7	12	1.793	3.12	0.0549	1.76
20215	20205	339.4	8	1.211	0.87	0.0003	0.03
20220	20215	167.4	8	1.574	0.99	0	0.00
20225	20220	81.9	8	0.935	0.77	0	0.00
20230	20210	346.3	12	0.235	1.12	0.051	4.55
20235	20185	184.8	8	0.81	0.71	0.0722	10.17
20240	20185	346.9	8	2.025	1.13	0	0.00
20245	20240	306.3	8	2.608	1.28	0	0.00
20250	20235	296.2	8	1.439	0.95	0.0727	7.65
20255	20250	390.2	8	3.771	1.54	0.0733	4.76
20260	20255	354.1	8	1.252	0.89	0.0639	7.18
20265	20260	311.6	8	0.88	0.74	0.0644	8.70
20270	20265	154.8	8	1.765	1.05	0.0654	6.23
20275	20270	115.8	8	1.385	0.93	0.066	7.10
20285	20275	205.6	8	0.071	0.21	0.0663	31.57
20290	20285	66.2	8	0.146	0.3	0.032	10.67
20295	20285	239.1	8	0.903	0.75	0.0626	8.35
20300	20290	162.6	8	0.146	0.3	0.0287	9.57
20305	20295	193.5	8	0.059	0.19	0.0672	35.37
20310	20280	314.6	8	0.375	0.48	0	0.00
20315	20230	248.3	12	0.148	0.89	0.051	5.73
20320	20315	250	12	0.276	1.22	0.0511	4.19
20325	20320	144.6	12	1.324	2.68	-0.0001	0.00
20330	20320	124.6	8	3.5	1.49	0.0452	3.03
20335	20330	359.6	8	2.927	1.36	0.0452	3.32
20340	20335	150.7	8	3.531	1.49	0.0396	2.66
20345	20340	364.9	8	2.904	1.35	0.0396	2.93
20350	20345	218.5	8	0.092	0.24	0.0396	16.50
20355	20350	101.8	8	0.442	0.52	-0.0002	-0.04
20360	20365	24.9	8	1.901	1.09	0.0081	0.74
20365	20170	333	10	0.228	0.68	0.0727	10.69
20370	20360	386.7	8	0.329	0.45	0.0081	1.80
20380	20385	238.5	8	0.559	0.59	0.0179	3.03
20385	20365	165.8	10	0.685	1.19	0.0646	5.43
20390	20380	103.7	8	0.751	0.69	0.0179	2.59

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20395	20390	225.7	8	0.751	0.69	0.0179	2.59
20400	20395	92.5	8	0.165	0.32	0.0179	5.59
20405	20400	241.4	8	0.539	0.58	0.0179	3.09
20410	20405	197.5	8	0.302	0.43	0	0.00
20415	20385	82.2	10	0.685	1.19	0.0468	3.93
20420	20415	309.1	10	0.179	0.6	0.0468	7.80
20425	20420	211.8	8	0.084	0.23	0.0468	20.35
20430	20425	358.2	8	0.162	0.32	0.0024	0.75
20435	20425	120.2	8	2.284	1.2	0.028	2.33
20440	20430	106.6	8	1.533	0.98	0.0023	0.23
20445	20440	59.4	8	2.935	1.36	0.0023	0.17
20450	20435	112	8	1.182	0.86	0.028	3.26
20455	20450	244.2	8	1.215	0.87	0.028	3.22
20460	20455	240.4	8	0.812	0.71	0.028	3.94
20465	20460	215.1	8	0.525	0.57	0.028	4.91
20470	20465	77.3	8	2.678	1.3	0	0.00
20475	20165	402.2	12	0.427	1.52	0.1247	8.20
20480	20325	123.9	12	0.9	2.21	0	0.00
20485	20480	236.3	12	0.628	1.84	0	0.00
20490	20485	157.7	8	6.686	2.05	0	0.00
20495	20485	53.7	8	0.827	0.72	0	0.00
20500	20300	102.5	8	0.156	0.31	0.028	9.03
20505	20500	340.5	8	0.156	0.31	0.028	9.03
20510	20505	197.6	8	1.335	0.92	0.028	3.04
20515	20510	45.9	8	1.335	0.92	0.028	3.04
20520	20515	329.9	8	0.635	0.63	0.018	2.86
20525	20515	206.2	8	1.077	0.82	0.0101	1.23
20530	20525	168.9	8	1.908	1.1	0.0101	0.92
20535	20530	386.2	8	0.292	0.43	0.0101	2.35
20540	20535	293.4	8	1.114	0.84	0.0101	1.20
20545	20520	258	8	0.138	0.29	0.018	6.21
20550	20545	226.8	8	1.076	0.82	0.018	2.20
20555	20550	134.4	8	0.268	0.41	0.0129	3.15
20560	20555	92	8	1.304	0.91	0.0129	1.42
20565	20555	60.8	6	2.566	0.59	0	0.00
20570	20560	68.5	8	1.606	1	0.0129	1.29
20575	20570	330.3	8	0.335	0.46	0.0129	2.80
20580	20575	170.3	8	0.695	0.66	0.0129	1.95
20585	20575	231	8	1.049	0.81	0	0.00
20590	20580	66	8	0.561	0.59	0.0129	2.19
20595	20590	240.5	8	0.539	0.58	0.0119	2.05
20600	20095	341	24	0.133	5.29	1.5153	28.64

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20605	20600	401.3	24	0.042	2.96	1.5168	51.24
20610	20605	351.9	24	0.058	3.47	1.5198	43.80
20615	20610	186.9	24	2.745	24.16	1.5248	6.31
20620	20615	54	24	1.556	18.18	1.5252	8.39
20625	20620	313.6	24	0.338	8.45	1.5252	18.05
20630	20625	297.8	24	0.18	6.16	1.5256	24.77
20635	20630	256.2	24	0.197	6.44	1.5266	23.70
20640	20635	58.2	24	0.732	12.46	1.5276	12.26
20645	20640	300.3	24	0.851	13.44	1.5279	11.37
20650	20645	321.2	24	0.345	8.54	1.5282	17.89
20655	20650	371.7	24	0.008	1.28	1.5288	119.44
20660	20655	32.3	8	0.186	0.34	0.0156	4.59
20665	20655	219.9	24	1.343	16.89	1.5193	9.00
20670	20660	298.8	8	2.239	1.19	0.0046	0.39
20675	20665	245.2	24	1.756	19.32	1.5194	7.86
20685	20680	131.4	8	2.413	1.23	0.0096	0.78
20690	20685	102.2	8	1.307	0.91	0.0096	1.05
20695	20690	82	6	0.505	0.26	0	0.00
20700	20690	397.6	8	6.079	1.96	0.0076	0.39
20705	20700	249.6	8	0.935	0.77	0.0047	0.61
20710	20705	381.2	8	0.162	0.32	0.0019	0.59
20715	20670	301.1	8	5.559	1.87	0.0041	0.22
20720	20715	275.1	8	0.935	0.77	0.0026	0.34
20725	20720	270.3	8	0.424	0.51	0.001	0.20
20730	20675	258.9	24	0.545	10.75	1.5192	14.13
20735	20730	348.7	24	0.01	1.39	1.5195	109.32
20740	20735	544.7	24	1.431	17.43	1.5212	8.73
20745	20740	24.9	24	3.836	28.57	1.5218	5.33
20750	20745	362	24	0.387	9.04	1.5218	16.83
20755	20750	399.4	24	0.002	0.62	1.5223	245.53
20760	20755	398.8	24	0.172	6.03	1.5251	25.29
20765	20760	403.4	24	0.553	10.83	1.5308	14.13
20770	20765	91	24	0.553	10.83	1.5326	14.15
20775	20770	18	18	6.672	17.64	1.5329	8.69
20780	20775	242.5	15	0.146	1.6	1.4952	93.45
20785	20775	389.9	8	3.058	1.39	0.047	3.38
20790	20785	297.2	8	0.58	0.6	0.0477	7.95
20795	20790	430.7	6	3.081	0.65	0.0045	0.69
20800	20790	167.5	8	1.403	0.94	0.0445	4.73
20805	20800	118.4	8	1.757	1.05	0.0044	0.42
20810	20800	46	8	0.565	0.59	0.0406	6.88
20815	20805	224	8	2.529	1.26	0.0028	0.22

City of Bryant
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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
20820	20815	304.7	8	0.465	0.54	0.0012	0.22
20825	20810	99.4	8	0.485	0.55	0.0404	7.35
20830	20825	170.8	8	0.345	0.46	0.0064	1.39
20835	20825	342.8	8	0.171	0.33	0.0348	10.55
20840	20830	399.7	8	0.167	0.32	0.003	0.94
20845	20840	187.6	8	0.608	0.62	0.0013	0.21
20855	20850	91.4	8	1.663	1.02	0.0015	0.15
20870	20865	125.2	8	1.459	0.96	0.0025	0.26
20875	20780	302.6	8	1.606	1	0.1053	10.53
20880	20780	247.2	15	1.42	5.01	1.3954	27.85
20885	20880	315.3	15	0.297	2.29	1.3924	60.80
20890	20885	162.1	8	1.092	0.83	-0.0001	-0.01
20895	20885	214.7	15	0.03	0.71	1.3924	196.11
20900	20895	370.2	15	0.511	3	1.3907	46.36
20905	20900	181.3	15	0.511	3	1.3907	46.36
20910	20875	248.7	8	0.874	0.74	0.1056	14.27
20915	20910	348.3	8	1.255	0.89	0.1058	11.89
20920	20915	355.9	8	2.212	1.18	0.1071	9.08
20925	20920	403.4	8	2.12	1.16	0.1025	8.84
20930	20925	40.2	8	4.023	1.59	0.0123	0.77
20935	20930	116.2	8	0.291	0.43	0.0102	2.37
20940	20935	383.7	8	0.412	0.51	0.0063	1.24
20950	20945	306.5	8	1.084	0.82	0.0527	6.43
20955	20950	298.5	8	0.866	0.74	0.0504	6.81
20960	20950	330.5	8	3.693	1.53	0.0089	0.58
20965	20960	357.1	8	3.874	1.56	0.0009	0.06
20970	20955	291.3	8	0.966	0.78	0.0613	7.86
20975	20970	200.6	8	1.09	0.83	0.08	9.64
20980	20975	254.4	8	3.301	1.44	0.0168	1.17
20985	20980	61.3	8	3.694	1.53	0.0119	0.78
20990	20985	150	8	1.067	0.82	0.0108	1.32
20995	20990	41.8	8	1.862	1.08	0.0108	1.00
21000	20995	142.3	8	0.29	0.42	0.0108	2.57
21005	21000	433	8	5.096	1.79	0.0064	0.36
21015	21010	366.1	8	2.942	1.36	0.0044	0.32
30005	20905	72.1	15	1.325	4.84	1.3908	28.74
30010	30005	391.1	15	0.929	4.05	1.383	34.15
30015	30010	267	10	0.25	0.71	1.2959	182.52
30020	30010	301.5	8	0.282	0.42	0.0871	20.74
30025	30015	417.5	8	2.397	1.23	0.0424	3.45
30030	30020	227.6	8	4.513	1.69	0.0871	5.15
30031	30030	174.9	8	2.034	1.13	0.073	6.46

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
30035	30025	357.8	8	0.42	0.51	0.0251	4.92
30040	30031	259.8	8	0.597	0.61	0.0684	11.21
30041	30040	122.9	8	3.927	1.57	0.0502	3.20
30042	30041	340.8	8	0.972	0.78	0.0502	6.44
30043	30042	314.2	8	0.538	0.58	0.0502	8.66
30044	30043	112.3	8	1.356	0.92	0.0189	2.05
30046	30044	156.7	8	1.666	1.02	0.0069	0.68
30047	30046	283.9	8	4.602	1.7	0.0069	0.41
30050	30040	333	8	2.46	1.24	0.0183	1.48
30055	30050	145.8	8	2.415	1.23	0.0167	1.36
30060	30055	142.6	8	0.992	0.79	0.0132	1.67
30070	30071	398	10	0.215	0.66	1.2543	190.05
30071	30015	376.4	10	0.215	0.66	1.2542	190.03
30075	30070	216.3	10	0.215	0.66	1.2524	189.76
30076	30075	184.5	10	0.215	0.66	1.2261	185.77
30080	30075	402.9	8	0.3	0.43	0.0955	22.21
30085	30080	400.7	8	0.73	0.68	0.0335	4.93
30090	30080	210.4	8	0.759	0.69	0.044	6.38
30095	30090	350.1	8	4.336	1.65	0.0087	0.53
30100	30095	188	8	4.519	1.69	0.0049	0.29
30105	30090	365	8	0.392	0.49	0.0178	3.63
30110	30105	187.2	8	4.566	1.7	0.0048	0.28
30115	30120	266	6	6.307	0.93	-0.0139	-1.49
30120	30076	499	10	0.215	0.66	1.217	184.39
30125	30120	243.5	12	0.215	1.07	1.2164	113.68
30145	30125	288	12	0.091	0.69	0.6663	96.57
30150	30145	157.2	12	1.015	2.35	0.768	32.68
30155	30150	255.4	10	2.671	2.35	0.9063	38.57
30160	30155	152.7	10	1.865	1.96	0.901	45.97
30165	30170	242.2	8	2.374	1.22	0.0112	0.92
30170	30172	103.7	8	0.78	0.7	0.0337	4.81
30172	30160	274.1	8	0.78	0.7	0.1068	15.26
30185	30190	98.8	8	1.965	1.11	0.0212	1.91
30190	30200	107.7	10	0.092	0.43	0.8787	204.35
30195	30196	91.7	10	0.586	1.1	0.877	79.73
30196	30190	150.2	10	0.588	1.1	0.8458	76.89
30220	30190	343.6	8	2.954	1.36	0.0453	3.33
30225	30220	338.9	8	1.66	1.02	0.0314	3.08
30230	30225	347.6	8	1.465	0.96	0.0238	2.48
30235	30230	273.2	6	1.713	0.48	0.0186	3.88
30240	30235	280.8	6	3.383	0.68	0.0138	2.03
30245	30240	280.1	6	0.643	0.29	0.0088	3.03

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
30250	30245	279.3	6	1.802	0.49	0.0031	0.63
30255	30195	181.6	10	1.17	1.55	0.8908	57.47
30256	30255	82.9	8	4.953	1.77	0.0084	0.47
30257	30256	296.4	8	2.176	1.17	0.0011	0.09
30260	30255	14	10	1.113	1.51	0.8866	58.72
30265	30260	117.5	10	0.979	1.42	0.8871	62.47
30270	30265	183	10	1.12	1.52	0.8898	58.54
30275	30270	87.6	10	1.253	1.61	0.8919	55.40
30280	30275	183.8	10	0.545	1.06	0.8916	84.11
30281	30280	30.9	6	11.242	1.24	0.0131	1.06
30285	30280	415.5	10	0.804	1.29	0.8884	68.87
30286	30285	212.3	8	1.438	0.95	0.676	71.16
30287	30286	237.4	6	2.294	0.56	0.6856	122.43
30288	30286	94.8	6	1.114	0.39	0.0327	8.38
30290	30285	66.5	10	2.271	2.16	0.2959	13.70
30310	30305	308.7	8	1.733	1.04	0.0066	0.63
30315	30310	354.7	6	2.452	0.58	0.0025	0.43
30320	30325	203.1	8	1.433	0.95	0.0029	0.31
30325	30330	191.8	8	4.305	1.65	0.0056	0.34
30330	30345	263.6	8	0.83	0.72	0.0202	2.81
30335	30330	167.3	6	1.364	0.43	0.0093	2.16
30340	30335	181.6	6	0.575	0.28	0.0061	2.18
30345	30355	278.7	8	0.537	0.58	0.0283	4.88
30350	30345	254.6	6	1.293	0.42	0.004	0.95
30355	30360	211.2	8	0.119	0.27	0.063	23.33
30360	30361	92.9	8	2.787	1.33	0.0664	4.99
30370	30361	308.3	8	1.537	0.98	0.1906	19.45
30415	30355	139.2	8	0.664	0.64	0.033	5.16
30430	30370	304.4	8	1.633	1.01	0.1846	18.28
30500	30501	245.1	8	1.318	0.91	0.0042	0.46
30505	30510	392.5	8	4.128	1.61	0.014	0.87
30510	30511	234.8	8	0.133	0.29	0.0172	5.93
30511	30515	382.2	8	2.737	1.31	0.0215	1.64
30515	30520	401.2	8	0.279	0.42	0.0488	11.62
30520	30525	396.2	8	0.395	0.5	0.0673	13.46
30525	30530	381	8	2.631	1.29	0.0953	7.39
30530	30535	389.6	8	1.203	0.87	0.1096	12.60
30535	30540	12.6	10	1.441	1.72	0.8945	52.01
30540	30541	144.1	10	1.441	1.72	0.896	52.09
30541	30125	384.6	10	1.441	1.72	0.9241	53.73
30545	30550	301.8	8	3.893	1.57	0.0051	0.32
30550	30560	352.2	8	0.493	0.55	0.0102	1.85

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
30555	30560	149.1	8	7.9	2.23	0.0053	0.24
30560	30515	237.1	8	3.064	1.39	0.0211	1.52
30564	30570	300.7	8	3.346	1.45	0.0115	0.79
30565	30564	300.3	8	0.212	0.36	0.0049	1.36
30570	30575	312.3	8	0.47	0.54	0.0166	3.07
30575	30525	240	8	1.547	0.99	0.0218	2.20
30580	30585	321.3	8	0.819	0.72	0.0058	0.81
30585	30520	145.7	8	5.843	1.92	0.0135	0.70
30595	30600	171.2	8	1.499	0.97	0.0097	1.00
30600	30605	353.5	8	1.762	1.05	0.0177	1.69
30605	30541	221	8	4.076	1.6	0.0245	1.53
30610	30615	205.2	8	0.327	0.45	0.0067	1.49
30615	30620	341.6	8	0.526	0.57	0.0122	2.14
30620	30630	340.9	8	2.298	1.2	0.0205	1.71
30625	30630	88.9	8	2.471	1.25	0.0028	0.22
30630	30635	273	8	0.234	0.38	0.0268	7.05
30640	30645	340.2	8	2.841	1.34	0.0065	0.49
30645	30650	338.4	8	0.324	0.45	0.0126	2.80
30650	30655	335.7	8	0.61	0.62	0.0196	3.16
30655	30656	59.9	8	3.823	1.55	0.0222	1.43
30656	30657	67.5	8	0.325	0.45	0.0232	5.16
30657	30200	81.6	8	1.615	1.01	0.0315	3.12
30670	30675	79.4	8	1.617	1.01	0.0093	0.92
30671	30670	285.4	8	0.341	0.46	0.0072	1.57
30675	30680	245.8	8	1.586	1	0.0143	1.43
30680	30685	295.8	8	0.801	0.71	0.0196	2.76
30685	30695	409.9	8	0.464	0.54	0.03	5.56
30690	30685	226.2	8	1.239	0.88	0.005	0.57
30695	30700	273.9	8	0.394	0.5	0.0346	6.92
30700	30705	109.9	8	1.379	0.93	0.0374	4.02
30705	30715	382.6	8	0.524	0.57	0.0433	7.60
30714	30705	164.1	8	0.528	0.57	0.0049	0.86
30715	30720	209.7	8	0.713	0.67	0.0484	7.22
30720	30725	308.2	8	0.498	0.56	0.0511	9.13
30740	30745	418.9	6	2.847	0.62	0.0055	0.89
30747	30815	205.4	8	3.192	1.42	0.0371	2.61
30750	30747	199	8	4.215	1.63	0.0052	0.32
30755	30760	271	6	2.878	0.63	0.0047	0.75
30760	30855	192.6	6	3.924	0.73	0.0099	1.36
30765	30825	319.9	6	6.312	0.93	0.0039	0.42
30770	30790	340.1	6	3.886	0.73	0.0047	0.64
30775	30770	110.7	6	4.721	0.8	0.0047	0.59

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
30790	30795	288.6	6	4.207	0.76	0.0155	2.04
30795	30800	382.5	6	1.199	0.4	0.0209	5.23
30800	30805	384.9	6	0.865	0.34	0.0266	7.82
30805	30810	148.6	6	10.46	1.19	0.0291	2.45
30810	30835	307.8	8	1.229	0.88	0.085	9.66
30815	30810	268.7	8	2.339	1.21	0.0538	4.45
30820	30815	99.4	8	0.458	0.53	0.0139	2.62
30825	30790	139.5	6	2.957	0.63	0.0066	1.05
30835	LS-08_WW	3.6	8	15.553	3.14	0.1083	3.45
30850	30835	282.2	6	4.938	0.82	0.0169	2.06
30855	30850	123.2	6	0.465	0.25	0.0148	5.92
30925	30925A	146.1	10	0.446	0.96	0.6676	69.54
30926	30925	332.4	8	0.291	0.43	0.0863	20.07
30927	30926	148	8	0.197	0.35	0.0846	24.17
30928	30927	23.7	8	5.589	1.88	0.0314	1.67
30929	30928	52.4	8	3.398	1.46	0.0299	2.05
30931	30929	390	8	1.53	0.98	0.0262	2.67
30932	30931	207.2	8	2.778	1.32	0.0197	1.49
30933	30932	381	8	1.825	1.07	0.013	1.21
30934	30933	347.5	8	1.876	1.09	0.0052	0.48
30937	30948	295.4	8	1.055	0.81	0.0039	0.48
30938	30927	248.9	8	0.959	0.78	0.0532	6.82
30939	30938	144	8	1.425	0.95	0.0144	1.52
30941	30939	271.4	8	1.728	1.04	0.0119	1.14
30942	30941	69.2	8	0.947	0.77	0.009	1.17
30943	30942	254.8	8	0.769	0.69	0.004	0.58
30944	30946	190.5	8	0.529	0.57	0.0068	1.19
30946	30949	293.4	8	0.559	0.59	0.0226	3.83
30947	30946	110.1	8	6.586	2.04	0.0132	0.65
30948	30947	213.2	8	3.627	1.51	0.0091	0.60
30951	30938	87.1	8	0.702	0.66	0.0375	5.68
30952	30937	179.4	8	0.599	0.61	0.0027	0.44
30953	30951	308.6	8	0.332	0.45	0.0308	6.84
31100	31105	223.5	8	2.599	1.28	0.0324	2.53
31105	31115	192.8	10	0.446	0.96	0.4594	47.85
31110	31270	133	8	0.419	0.51	0.0042	0.82
31115	33100	99.5	10	0.446	0.96	0.4605	47.97
31130	31100	202.2	8	4.823	1.74	0.0064	0.37
31150	32015	382.9	8	0.55	0.59	0.1043	17.68
31155	31105	88.5	8	0.446	0.53	0.4286	80.87
31160	31200	148.4	8	1.794	1.06	0.0131	1.24
31165	31160	120.7	8	4.179	1.62	0.0053	0.33

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31170	31160	84.6	8	0.98	0.78	0.0064	0.82
31175	31170	304.6	8	2.669	1.3	0.003	0.23
31180	31185	293.7	8	3.002	1.38	0.0019	0.14
31190	31200	108.7	8	0.276	0.41	0.0028	0.68
31195	31200	122.5	8	0.325	0.45	0.0041	0.91
31200	31100	381.2	8	0.901	0.75	0.0218	2.91
31210	31281	198.9	8	0.245	0.39	0.431	110.51
31215	31220	201.5	8	5.663	1.89	0.0011	0.06
31220	31225	207	8	4.484	1.68	0.0044	0.26
31225	31230	113.9	8	1.971	1.11	0.009	0.81
31230	31150	311.6	8	0.55	0.59	0.0466	7.90
31235	31230	73.1	8	0.55	0.59	0.0363	6.15
31240	31235	322.4	8	0.55	0.59	0.0352	5.97
31245	31240	298.8	8	4.172	1.62	0.0049	0.30
31260	31240	356.3	8	0.55	0.59	0.0269	4.56
31265	31125	206.2	8	7.025	2.11	0.005	0.24
31270	31125	183	8	0.708	0.67	0.0058	0.87
31275	31285	179.5	8	0.847	0.73	0.4255	58.29
31280	31275	184.5	8	0.245	0.39	0.4235	108.59
31281	31280	193.8	8	0.245	0.39	0.4234	108.56
31285	31155	341.7	8	0.446	0.53	0.4255	80.28
32005	32010	380.7	8	2.551	1.27	0.0097	0.76
32010	31150	378.9	8	0.428	0.52	0.0483	9.29
32015	32020	288.3	8	1.463	0.96	0.112	11.67
32020	32025	429.4	8	0.441	0.52	0.1341	25.79
32035	32040	188.6	8	0.566	0.59	0.1537	26.05
32040	32045	365.7	8	0.566	0.59	0.1601	27.14
32045	32050	372.2	8	0.467	0.54	0.1691	31.31
32050	32055	326.1	8	1.405	0.94	0.1772	18.85
32055	32065	392	8	2.988	1.37	0.2833	20.68
32100	32110	360.2	6	1.79	0.49	0.0015	0.31
32101	32100	190.2	6	4.292	0.76	0	0.00
32110	32010	376	8	1.495	0.97	0.0308	3.18
32130	32020	211.5	8	3.286	1.44	0.0147	1.02
32135	32130	299	8	3.178	1.42	0.0074	0.52
32138	32137	104.3	6	3.468	0.69	0	0.00
32139	32138	101.3	6	3.945	0.73	0	0.00
32145	32140	73.8	6	1.22	0.41	0.0043	1.05
32150	32110	256.2	8	0.756	0.69	0.0283	4.10
32151	32150	505.7	8	2.565	1.27	0.0239	1.88
32155	32150	282.7	8	2.428	1.24	0.0029	0.23
32156	32155	122.4	8	3.194	1.42	0	0.00

City of Bryant
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Deign Storm Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
32157	32156	168.7	8	0.897	0.75	0	0.00
32160	32155	141.8	8	0.817	0.72	0	0.00
32161	32160	243.4	8	3.36	1.46	0	0.00
32162	32161	196.6	8	5.304	1.83	0	0.00
32170	32160	282.2	8	0.599	0.61	0	0.00
32171	32170	211.4	8	6.58	2.04	0	0.00
32175	32170	281	8	0.828	0.72	0	0.00
32185	32035	309.2	8	0.816	0.72	0.0111	1.54
32190	32210	390.6	8	0.936	0.77	0.0178	2.31
32195	32190	335.2	8	3.877	1.56	0.0118	0.76
32210	32230	396.7	8	0.419	0.51	0.0254	4.98
32230	32245	333.3	8	6.452	2.02	0.0686	3.40
32235	32236	701.5	8	0.695	0.66	0.0063	0.95
32240	32245	323.6	8	0.434	0.52	0.0231	4.44
32245	32055	337.6	8	2.825	1.33	0.1002	7.53
33105	33110	246.4	8	0.663	0.64	0.0115	1.80
33110	33115	247.8	8	0.892	0.75	0.0178	2.37
33115	33116	207.7	8	1.726	1.04	0.0218	2.10
33116	33117	159.7	8	7.245	2.14	0.0389	1.82
33120	33116	374.4	8	1.252	0.89	0.0156	1.75
33122	33123	482.8	10	0.446	0.96	0.5721	59.59
33123	30925	374.9	10	0.446	0.96	0.5788	60.29
33124	33128	118.6	8	1.918	1.1	0.0119	1.08
33125	33120	271.7	8	0.724	0.67	0.0079	1.18
33126	33128	275.9	8	1.448	0.95	0.0047	0.49
33127	33128	107.8	8	0.538	0.58	0.0139	2.40
33128	33122	116.8	8	0.374	0.48	0.0319	6.65
33129	34005	338.2	10	0.446	0.96	0.7135	74.32
33131	33132	18.4	10	0.953	1.4	0.7153	51.09
33132	33133	100.7	10	0.953	1.4	0.7079	50.56
33133	34010	163	10	0.953	1.4	0.7039	50.28
33134	30535	147.7	10	1.441	1.72	0.7869	45.75
34000	33129	16.2	8	8.339	2.3	0.0094	0.41
34005	33131	91.6	10	0.953	1.4	0.7158	51.13
34010	34015	89.1	10	0.953	1.4	0.7076	50.54
34015	34020	119.7	10	0.953	1.4	0.7053	50.38
34020	33134	156.6	10	0.953	1.4	0.7009	50.06
34025	34020	330.1	8	1.03	0.8	0.013	1.63
34030	33134	236	8	1.708	1.04	0.0945	9.09
34035	34040	185.1	8	0.213	0.36	0.0324	9.00
34045	34035	164.6	8	2.059	1.14	0.027	2.37
4326	4325	123	8	1.155	0.85	0.0528	6.21

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
4343A	4339	149	8	1.738	1.05	0.2533	24.12
4356	4354A	243.3	8	0.832	0.72	0.0451	6.26
4360	4358	104.5	8	1.95	1.11	0.0081	0.73
4361	4358	323.9	8	1.046	0.81	0.1773	21.89
4362	4359	225.7	8	1.833	1.07	0.2463	23.02
4363	4361	327.1	8	0.997	0.79	0.1674	21.19
4364	4363	241.7	8	0.499	0.56	0.1674	29.89
4365	4364	233.4	6	1.535	0.46	0.1079	23.46
4366	4365	233.5	6	1.251	0.41	0.1079	26.32
4367	4366	254.6	6	1.473	0.45	0.0286	6.36
4368	4367	318.9	6	1.166	0.4	0.0223	5.58
4369	4366	175	6	1.884	0.51	0.0832	16.31
4370	4369	141	6	0.725	0.31	0.0773	24.94
4371	4370	239.4	6	1.19	0.4	0.05	12.50
4372	4371	60.2	6	0.679	0.3	0.01	3.33
4373	4372	299.5	6	0.65	0.3	0.0084	2.80
4374	4364	260.5	8	0.464	0.54	0.0618	11.44
4375	4370	229.9	8	0.952	0.77	0.0224	2.91
4376	4371	78.9	6	3.492	0.69	0.0381	5.52
4376A	4376	183.2	6	3.656	0.71	0.0051	0.72
4377	4374	202.1	8	0.349	0.47	-0.0003	-0.06
4378	4377	139.8	8	1.048	0.81	0	0.00
4379	4378	239.7	8	2.694	1.3	0	0.00
4380	4379	190.3	8	0.539	0.58	0	0.00
4381	4374	218.9	8	0.563	0.59	0.0604	10.24
4381A	4381	220.9	8	0.251	0.39	0.0029	0.74
4382	4381	226.4	8	1.194	0.87	0.0535	6.15
4383	4382	96.2	8	0.935	0.77	0.0396	5.14
4384	4383	206.2	6	0.654	0.3	0.0303	10.10
4385	4384	113.9	6	3.227	0.66	0.0303	4.59
4386	4385	82.5	6	1.39	0.43	0.0303	7.05
4387	4375	216	8	1.087	0.83	0.0183	2.20
4388	4387	337	6	3.282	0.67	0.0056	0.84
4389	4376	187.2	6	1.941	0.51	0.0325	6.37
4390	4389	127.3	6	0.95	0.36	0.0164	4.56
4391	4390	205.9	6	3	0.64	0.0051	0.80
4392	4387	203.3	6	0.744	0.32	0.0077	2.41
4393	4392	170.8	6	0.575	0.28	0.003	1.07
4394	4360	135.9	8	2.728	1.31	0.0076	0.58
4395	4394	310.6	8	1.293	0.9	0.0068	0.76
4396	4362	356.5	8	0.681	0.65	0.2395	36.85
4397	4396	437.6	8	0.434	0.52	0.2369	45.56

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
4398	4397	385.5	8	0.465	0.54	0.228	42.22
4399	4398	168.7	8	0.46	0.54	0.202	37.41
4401	4398	173	8	0.409	0.51	0.0289	5.67
4402	4401	100.5	8	0.514	0.57	0.0226	3.96
4406	4399	331.2	8	1.058	0.81	0.2019	24.93
4407	4406	338.5	8	1.613	1.01	0.1387	13.73
4408	4407	250.1	8	1.331	0.91	0.1328	14.59
4409	4408	246.3	8	1.983	1.12	0.1289	11.51
4411	4411A	38	8	1.15	0.85	0.0983	11.56
4411A	4410	292.6	8	0.986	0.79	0.129	16.33
4411B	4411	235.4	8	2.17	1.17	0.0095	0.81
4412	4411	248.1	8	1.997	1.12	0.0891	7.96
4413	4412	131.5	8	1.494	0.97	0.0073	0.75
4414	4413	212.1	6	5.201	0.84	0.0054	0.64
4414A	4414	100	8	0.473	0.54	0	0.00
4415	4414	283.2	6	4.108	0.75	0.0041	0.55
4416	4412	335.5	8	1.472	0.96	0.0822	8.56
4417	4416	350.1	8	0.663	0.64	0.035	5.47
4418	4417	225.1	8	1.025	0.8	0.035	4.38
4419	4418	218.9	8	1.855	1.08	0.0073	0.68
4419A	4419	306.3	8	0.598	0.61	0.0035	0.57
4420	4420A	166.9	8	5.568	1.87	0.0259	1.39
4420A	4416	198.3	8	2.864	1.34	0.0365	2.72
4421	4420	78	8	2.1	1.15	0.02	1.74
4422	4421	189.8	8	0.708	0.67	0.02	2.99
4423	4422	116.7	8	3.594	1.51	0.02	1.32
4424	4423	198.1	8	2.659	1.29	0.0201	1.56
4425	4420	52.5	8	5.196	1.81	0.006	0.33
4426	4425	61.9	8	0.887	0.75	0.0036	0.48
4427	4411A	222.9	8	2.192	1.17	0.0244	2.09
4428	4427	198.1	8	1.807	1.07	0.0128	1.20
4429	4428	204.2	8	2.686	1.3	0.0099	0.76
4430	4406	81.8	6	7.304	1	0.067	6.70
4431	4430	393.8	6	0.805	0.33	0.0037	1.12
4432	4431	262.9	6	2.527	0.59	0.0037	0.63
4432A	4432	110.4	6	2.519	0.58	0.0037	0.64
4433	4430	91.3	6	1.112	0.39	0.0632	16.21
4434	4433	197.9	6	3.752	0.71	0.0632	8.90
4435	4434	372.1	6	1.653	0.47	0.0616	13.11
4436	4435	307	6	1.858	0.5	0.0617	12.34
4436A	4436	37.5	6	5.36	0.85	0.0373	4.39
4437	4343A	291.8	8	0.622	0.62	0.2506	40.42

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
4438	4437	146	8	1.087	0.83	0.2517	30.33
4439	4438	489.6	8	1.012	0.8	0.0084	1.05
4440	4439	176.5	6	0.777	0.32	0.0081	2.53
4441	4438	271	8	0.38	0.49	0.243	49.59
4442	4441	333.6	8	1.515	0.98	0.2374	24.22
4443	4442	122.1	6	6.164	0.92	-0.0003	-0.03
4444	4442	177.3	8	2.08	1.14	0.0607	5.32
4445	4444	227.2	8	0.417	0.51	0.0605	11.86
4446	4445	242.8	8	0.372	0.48	0.0536	11.17
4447	4446	198.5	8	0.337	0.46	0.0519	11.28
4448	4447	70.9	8	0.447	0.53	0.052	9.81
4449	4448	247.9	8	0.353	0.47	0.0229	4.87
4450	4449	255.3	8	2.245	1.19	0.0072	0.61
4451	4450	56.2	8	2.4	1.23	0.0072	0.59
4452	4451	330.1	8	1.374	0.93	0.0033	0.35
4453	4452	402.1	8	0.799	0.71	0.0033	0.46
4454	4453	73.2	8	0.262	0.4	0.0033	0.83
4455	4454	243.4	8	0.452	0.53	0.0033	0.62
4456	4455	180.4	8	0.453	0.53	0.0033	0.62
4457	4456	116.8	8	0.473	0.54	0.0033	0.61
4459	4449	163	8	0.827	0.72	0.0158	2.19
4460	4459	302.3	8	0.266	0.41	0.0158	3.85
4461	4460	269.7	8	1.502	0.97	0.0063	0.65
4462	4461	329.8	8	0.049	0.17	-0.0001	-0.06
4463	4442	275.2	8	1.665	1.02	0.1825	17.89
4464	4463	231.7	8	0.473	0.54	0.0773	14.31
4465	4464	37.5	8	1.576	1	0.107	10.70
4466	4465	247.9	8	4.369	1.66	0.0167	1.01
4467	4465	175	8	0.091	0.24	0.0403	16.79
4468	4467	212.5	8	4.201	1.63	0.0348	2.13
4469	4468	342	8	3.293	1.44	0.03	2.08
4470	4469	212.7	8	2.116	1.15	0.0062	0.54
4471	4463	352.1	8	1.909	1.1	0.1109	10.08
4472	4471	196	8	1.605	1	0.0788	7.88
4473	4472	229.7	8	1.512	0.97	-0.0001	-0.01
4474	4473	229.3	8	1.611	1.01	0	0.00
4475	4474	381.3	8	0.407	0.5	0	0.00
4476	4472	400.3	8	1.798	1.06	0.0761	7.18
4477	4476	239.7	8	0.491	0.55	0.0232	4.22
4478	4477	116.8	8	3.898	1.57	0.0233	1.48
4479	4478	89.6	8	3.435	1.47	0.0163	1.11
4480	4479	195.8	8	3.726	1.53	0.0059	0.39

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
4481	4479	181.8	8	1.015	0.8	0.0108	1.35
4482	4476	500	8	2.27	1.2	0.0343	2.86
4483	4482	364.7	8	0.44	0.52	0.0129	2.48
4484	4483	291.7	8	2.66	1.29	0.01	0.78
4485	4484	319.8	8	1.1	0.83	0	0.00
4486	4482	336.7	8	1.997	1.12	0.0214	1.91
4487	4486	131.2	8	2.446	1.24	0.0188	1.52
4488	4487	74.4	8	2.923	1.36	0.0158	1.16
4489	4488	277.9	8	1.174	0.86	0.0022	0.26
4490	4486	367.2	8	1.84	1.08	0.0027	0.25
4493	4492	333.6	8	3.682	1.52	0.0015	0.10
4494	4356	235.6	8	0.769	0.69	0.0057	0.83
4495	4356	65.1	8	0.882	0.74	0.0397	5.36
4496	4495	16.7	8	0.497	0.56	0.0398	7.11
4497	4496	254.2	6	1.873	0.5	0.0091	1.82
4498	4496	210.9	8	1.256	0.89	0.0299	3.36
4499	4498	291.7	8	1.306	0.91	0.0217	2.38
4500	4499	56.3	8	1.174	0.86	0.0218	2.53
4501	4500	233.4	8	0.563	0.59	0.0182	3.08
4502	4501	210.4	8	0.585	0.6	0.0119	1.98
4503	4333	116.8	8	0.347	0.46	0.033	7.17
4504	4503	73.4	8	0.837	0.72	0.0299	4.15
4505	4504	249	8	0.964	0.78	0.0299	3.83
4506	4505	343.8	8	1.146	0.85	0.0299	3.52
4507	4506	227.2	8	1.191	0.86	0.024	2.79
4508	4326	159.6	8	1.053	0.81	0.0484	5.98
4509	4508	228.1	8	1.276	0.9	0.0227	2.52
4510	4509	335.7	8	2.371	1.22	0.0167	1.37
4511	4510	365.3	8	4.354	1.66	0.01	0.60
4512	4511	146.1	8	3.324	1.45	0.0041	0.28
4513	4508	81.7	8	1.789	1.06	0.0249	2.35
4514	4513	370.7	8	1.663	1.02	0.021	2.06
4515	4514	312.6	8	3.237	1.43	0.0135	0.94
4516	4515	262.9	8	2.985	1.37	0.0076	0.55
4517	4516	157.1	8	4.588	1.7	0.0025	0.15
4518	4517	79.2	8	3.771	1.54	0.0017	0.11
4519	4400	131.4	6	5.441	0.86	0.0107	1.24
4520	4519	110.3	6	1.922	0.51	0.0043	0.84
4521	4400	220.9	6	1.774	0.49	0.029	5.92
4522	4521	417.1	8	3.629	1.51	0.0234	1.55
4523	4522	237.5	8	3.474	1.48	0.0201	1.36
4524	4523	277.2	8	4.181	1.62	0.0034	0.21

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
4525	4523	206.9	8	4.162	1.62	0.0148	0.91
4526	4525	201.3	8	6.02	1.95	0.0126	0.65
4527	4400	425.5	8	1.197	0.87	0.2639	30.33
4528	4527	489.5	8	1.324	0.91	0.2639	29.00
4529	4528	181.9	8	2.452	1.24	0.0257	2.07
4530	4529	242.1	8	0.164	0.32	0.024	7.50
4531	4530	298.3	8	1.619	1.01	0.0194	1.92
4532	4532A	100.3	8	0.55	0.59	0.0055	0.93
4532A	4531	325.2	8	3.222	1.43	0.0138	0.97
4533	4528	117.9	8	0.944	0.77	0.2362	30.68
4534	4533	56.9	8	1.715	1.04	0.2336	22.46
4535	4534	125	8	0.616	0.62	0.2336	37.68
4536	4535	335.4	8	1.323	0.91	0.0469	5.15
4537	4536	407.8	8	4.675	1.72	0.0274	1.59
4538	4537	169.6	8	0.245	0.39	0.0203	5.21
4539	4538	175	8	0.562	0.59	0.0203	3.44
4540	4535	86.7	8	0.745	0.68	0.1873	27.54
4541	4540	196.2	8	2.97	1.37	0.0678	4.95
4542	4541	109.1	8	4.26	1.64	0.0657	4.01
4543	4542	315.5	8	2.322	1.21	0.0645	5.33
4544	4543	287.7	8	0.595	0.61	0.0588	9.64
4546	4545	241.7	8	0.552	0.59	0.0052	0.88
4547	4546	256.3	8	1.569	0.99	0.003	0.30
4548	4544	336.1	8	3.083	1.39	0.0472	3.40
4549	4548	248.3	8	0.548	0.59	0.0399	6.76
4550	4549	102.1	8	0.132	0.29	-0.0002	-0.07
4551	4549	210.5	8	0.197	0.35	0.0399	11.40
4552	4551	131.3	8	0.587	0.61	0.04	6.56
4553	4552	108.5	8	0.475	0.54	0.04	7.41
4554	4553	329	8	0.44	0.52	0.0198	3.81
4555	4554	213.3	8	0.385	0.49	0.0199	4.06
4556	4540	241.1	8	0.123	0.28	0.1202	42.93
4557	4556	239.7	8	0.123	0.28	0.1135	40.54
4558	4557	257.3	8	0.123	0.28	0.1135	40.54
4559	4558	240	8	0.96	0.78	0.0092	1.18
4560	4559	263.5	8	1.447	0.95	0.0092	0.97
4561	4560	212.5	6	1.49	0.45	0.0012	0.27
4562	4560	341.7	8	2.216	1.18	0.0056	0.47
4563	4558	81.3	8	0.123	0.28	0.1052	37.57
4565	4564	74.4	8	0.788	0.7	0.0098	1.40
4566	4565	259	8	0.995	0.79	0.0044	0.56
4567	4564	291.7	8	0.123	0.28	0.0922	32.93

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
4568	4567	313.9	8	0.123	0.28	0.0923	32.96
4570	4569	14.6	8	1.788	1.06	0	0.00
4571	4570	218.4	8	0.536	0.58	0	0.00
4572	4568	226.4	8	0.123	0.28	0.0925	33.04
4573	4572	206.3	8	0.123	0.28	0.0926	33.07
4574	4573	192.4	8	0.123	0.28	0.0928	33.14
4575	4574	227.1	8	0.123	0.28	0.0163	5.82
4576	4575	50	6	0.123	0.13	0.0159	12.23
4577	4555	323.4	8	0.48	0.55	0.0185	3.36
4578	4577	470.7	8	0.46	0.54	0.0115	2.13
4579	4578	165.2	8	0.473	0.54	0.0047	0.87
4580	4576	591.8	6	0.123	0.13	0.0159	12.23
4581	4580	419.8	6	0.387	0.23	0.016	6.96
4582	4581	795.7	4	2.011	0.18	0.016	8.89
4583	4574	192.1	8	0.493	0.56	0.0774	13.82
50001	50000	137.8	10	0.864	1.33	1.1451	86.10
50005	50004	330.8	10	1.276	1.62	1.1295	69.72
50010	50005	284.4	10	0.555	1.07	1.1243	105.07
50015	50010	55.7	8	0.952	0.77	0.2858	37.12
50020	50010	76	10	0.276	0.75	0.8904	118.72
50025	50015	196.4	8	0.175	0.33	0.1565	47.42
50030	50015	323.5	8	0.544	0.58	0.1129	19.47
50035	50015	104.3	6	1.3	0.42	0.0157	3.74
50036	50035	132.9	6	5.858	0.89	0.01	1.12
50045	50030	232.5	8	0.448	0.53	0.112	21.13
50050	50045	166.5	8	2.818	1.33	0.1062	7.98
50055	50050	307.7	8	1.881	1.09	0.0754	6.92
50060	50050	113.4	6	2.773	0.61	0.0309	5.07
50065	50055	405.9	8	0.622	0.62	0.0354	5.71
50075	50055	387.6	6	1.445	0.44	0.0266	6.05
50080	50065	278.4	6	1.325	0.42	0.0221	5.26
50085	50080	308.7	6	2.325	0.56	0.0109	1.95
50090	50075	233.4	6	1.063	0.38	0.0124	3.26
50095	50090	168	6	1.556	0.46	0.0075	1.63
50100	50060	303.9	6	1.922	0.51	0.0198	3.88
50105	50100	241	6	2.993	0.64	0.0098	1.53
50110	50025	223.6	6	4.416	0.78	0.0212	2.72
50115	50110	297	6	1.042	0.38	0.019	5.00
50120	50115	333.8	6	1.438	0.44	0.0083	1.89
50125	50130	137.7	6	0.372	0.22	0.0077	3.50
50130	50135	274.7	6	1.728	0.48	0.0162	3.38
50135	50140	368.3	6	1.079	0.38	0.0271	7.13

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
50140	50145	363.9	6	2.758	0.61	0.0401	6.57
50145	50150	96.3	6	0.564	0.28	0.0491	17.54
50150	50160	198.3	8	0.395	0.5	0.0576	11.52
50155	50150	93.1	6	4.376	0.77	0.0086	1.12
50160	50165	44.6	8	0.374	0.48	0.0576	12.00
50165	50180	364.3	8	1.307	0.91	0.0656	7.21
50170	50180	76.9	8	2.908	1.35	0.0108	0.80
50175	50170	177	6	7.994	1.04	0.0086	0.83
50180	50185	109	8	0.451	0.53	0.0791	14.92
50185	50190	30.5	8	0.451	0.53	0.0981	18.51
50190	50195	57.5	8	0.451	0.53	0.1063	20.06
50195	50025	189.4	8	0.247	0.39	0.1165	29.87
50200	50185	115.4	6	0.857	0.34	0.011	3.24
50205	50200	333.8	6	0.893	0.35	0.0055	1.57
50210	50020	511.4	10	0.725	1.22	0.8907	73.01
50215	50210	353.8	6	2.945	0.63	0.1729	27.44
50220	50215	159	8	0.577	0.6	0.1663	27.72
50225	50220	320.1	8	0.551	0.59	0.1091	18.49
50230	50225	236.4	6	0.689	0.3	0.0951	31.70
50235	50220	305.1	8	1.038	0.81	0.0438	5.41
50240	50235	292.7	8	0.217	0.37	0.0247	6.68
50245	50240	152	6	1.021	0.37	0.0105	2.84
50250	50230	387.6	6	2.301	0.56	0.0371	6.63
50255	50250	384.1	6	0.076	0.1	0.0157	15.70
50260	50355	144.1	6	1.113	0.39	0.0127	3.26
50265	50315	149.7	6	0.421	0.24	0.0057	2.38
50275	50230	271.8	8	0.56	0.59	0.0478	8.10
50280	50275	208.3	6	4.561	0.79	0.0035	0.44
50285	50275	401.2	6	0.771	0.32	0.0208	6.50
50290	50210	329.2	10	0.668	1.17	0.7174	61.32
50295	50290	258.9	10	0.77	1.26	0.7141	56.67
50300	50301	294.8	10	0.736	1.23	0.6923	56.28
50305	50300	317	10	0.594	1.1	0.6874	62.49
50310	50305	142.7	10	0.594	1.1	0.5416	49.24
50315	50385	321.9	6	0.775	0.32	0.0119	3.72
50330	50305	321.4	8	1.051	0.81	0.1418	17.51
50335	50330	270	8	0.578	0.6	0.1319	21.98
50340	50335	243.9	8	1.082	0.82	0.1173	14.30
50345	50340	293	8	0.794	0.71	0.109	15.35
50350	50345	306.6	8	0.794	0.71	0.0431	6.07
50355	50350	249	6	0.588	0.28	0.0184	6.57
50360	50345	302.7	6	1.693	0.48	0.0561	11.69

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
50365	50360	302.3	6	2.001	0.52	0.0398	7.65
50370	50365	204.8	6	1.514	0.45	0.0371	8.24
50375	50370	303.7	6	2.711	0.61	0.0316	5.18
50380	50375	335.8	6	2.583	0.59	0.0223	3.78
50385	50390	235.6	6	3.464	0.69	0.0119	1.72
50390	50391	287.4	6	1.392	0.43	0.0303	7.05
50395	50400	436.1	6	2.234	0.55	0.0404	7.35
50400	50405	188	6	5.503	0.87	0.0404	4.64
50405	50410	123.4	6	2.336	0.56	0.0443	7.91
50410	50415	219.2	6	5.168	0.84	0.0647	7.70
50415	50425	352.1	6	1.469	0.45	0.0808	17.96
50420	50415	233.6	6	4.18	0.75	0.0069	0.92
50425	50430	363	6	1.142	0.39	0.0868	22.26
50430	50435	364.3	6	1.368	0.43	0.1186	27.58
50435	50440	340	6	0.353	0.22	0.1296	58.91
50440	50515	190.7	8	3.026	1.38	0.2052	14.87
50445	50430	360.9	6	1.431	0.44	0.0186	4.23
50450	50445	238	6	2.077	0.53	0.0123	2.32
50455	50515	197.6	10	1.117	1.52	0.3369	22.16
50460	50455	346.7	10	0.22	0.67	0.3092	46.15
50465	50460	181.6	10	0.268	0.74	0.3046	41.16
50470	50465	97.2	6	4.394	0.77	0.0058	0.75
50475	50465	349.5	10	0.292	0.77	0.2917	37.88
50480	50475	102.9	6	7.109	0.98	0.0057	0.58
50485	50475	180.7	10	0.292	0.77	0.2814	36.55
50490	50485	173.6	6	6.376	0.93	0.0104	1.12
50495	50490	11	6	3.308	0.67	0.0104	1.55
50500	50495	118.2	6	1.199	0.4	0.0034	0.85
50505	50485	178.2	10	0.292	0.77	0.2695	35.00
50510	50505	348.9	10	0.292	0.77	0.2695	35.00
50515	50310	190.1	10	0.842	1.32	0.5416	41.03
50525	50510	391.5	10	0.14	0.53	0.2695	50.85
50530	50535	302.8	8	2.969	1.37	0.0089	0.65
50535	50555	199.3	8	1.011	0.8	0.0089	1.11
50540	50550	190.7	8	0.531	0.58	0.017	2.93
50545	50540	247.2	8	1.072	0.82	0.0049	0.60
50550	50440	352	8	1.417	0.94	0.0705	7.50
50555	50540	323.3	8	1.604	1	0.0089	0.89
50560	50550	348.7	8	0.474	0.54	0.0147	2.72
50565	50560	205.7	6	1.103	0.39	0.0095	2.44
50570	50525	157.7	6	7.86	1.03	0.0131	1.27
50575	50570	175.3	6	0.919	0.35	0.0084	2.40

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
50580	50575	100.1	6	0.273	0.19	0.0048	2.53
50580A	50580	150.4	6	1.469	0.45	0.0019	0.42
50585	50525	367.3	10	0.251	0.72	0.2567	35.65
50590	50585	163.3	6	7.736	1.03	0.0079	0.77
50595	50585	405.3	10	0.062	0.35	0.2491	71.17
50610	50605	180.8	10	0.355	0.85	0.2061	24.25
50615	50605	331.1	6	3.861	0.72	0.0308	4.28
50620	50615	360.4	6	0.651	0.3	0.0238	7.93
50625	50620	359	6	0.682	0.3	0.014	4.67
50630	50625	220.4	6	0.611	0.29	0.0066	2.28
50635	50610	98	6	0.333	0.21	-0.0004	-0.19
50640	50610	168	10	0.355	0.85	0.2043	24.04
50645	50640	333.8	6	1.015	0.37	0.0399	10.78
50650	50645	365.4	6	4.199	0.76	0.0279	3.67
50655	50650	359	6	2.291	0.56	0.0172	3.07
50660	50655	246.5	6	0.673	0.3	0.0081	2.70
50665	50640	205.7	8	0.602	0.61	0.1539	25.23
50670	50671	350.7	6	0.845	0.34	0.0626	18.41
50671	50665	352.6	6	3.438	0.68	0.0821	12.07
50675	50670	355.7	6	4.086	0.75	0.0472	6.29
50680	50675	57.9	6	0.194	0.16	0.0428	26.75
50685	50680	166	6	6.787	0.96	0.0096	1.00
50705	50665	338.3	8	0.763	0.69	0.0667	9.67
60005	60000	290.6	18	0.86	6.32	1.3091	20.71
60010	60005	311.1	18	0.024	1.04	1.3092	125.88
60015	60010	258.6	18	0.053	1.56	1.3101	83.98
60020	60015	319.4	8	1.078	0.82	0.011	1.34
60030	60025	221.5	18	0.144	2.57	1.2959	50.42
60035	60030	102.5	8	1.351	0.92	0.1458	15.85
60040	60030	248.4	18	0.202	3.05	1.1551	37.87
60045	60035	179.5	8	1.123	0.84	0.0761	9.06
60050	60035	119.1	8	4.624	1.71	0.066	3.86
60051	60050	158.4	8	0.966	0.78	0.061	7.82
60055	60040	401.5	18	0.385	4.22	1.1522	27.30
60060	60055	196.6	18	0.622	5.37	1.1486	21.39
60065	60060	348.7	18	0.253	3.42	1.1453	33.49
60070	60065	316.2	8	1.97	1.11	0.0231	2.08
60075	60065	302.6	18	1.325	7.85	1.119	14.25
60090	60085	275	18	0.365	4.11	1.1223	27.31
60100	60095	264.2	18	0.452	4.57	1.125	24.62
60105	60020	178.7	8	6.11	1.96	0.0069	0.35
60110	60045	248.8	8	0.842	0.73	0.0701	9.60

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Deign Storm Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
60115	60110	42.1	8	3.47	1.48	0.0661	4.47
60120	60115	183.8	8	2.092	1.15	0.01	0.87
60125	60115	199.7	8	1.928	1.1	0.052	4.73
60130	60120	156.3	8	6.483	2.02	0.0084	0.42
60135	60125	196.8	8	2.691	1.3	0.0065	0.50
60140	60125	50.1	8	0.969	0.78	0.0374	4.79
60145	60140	243.1	8	3.816	1.55	0.0342	2.21
60150	60145	375.3	8	3.076	1.39	0.0215	1.55
60155	60150	391	8	3.958	1.58	0.0082	0.52
60160	60051	147.8	8	3.253	1.43	0.0212	1.48
60165	60160	372.6	8	0.597	0.61	0.0181	2.97
60170	60165	377.4	8	1.871	1.08	0.008	0.74
60175	60070	283.2	8	4.42	1.67	0.015	0.90
60180	60175	241	8	4.357	1.66	0.008	0.48
60210	60205	146.7	8	1.21	0.87	0.0048	0.55
60215	60200	149.4	8	1.227	0.88	0.0028	0.32
60220	60100	89.2	18	0.835	6.23	1.1264	18.08
60225	60220	135	18	1.063	7.03	1.1267	16.03
60230	60225	139.5	8	1.835	1.07	0.0907	8.48
60235	60225	150.3	18	0.625	5.38	1.0371	19.28
60240	60235	228.5	18	0.333	3.92	1.0375	26.47
60245	60240	272.9	18	0.759	5.94	1.0385	17.48
60250	60245	271.1	18	0.126	2.41	1.0393	43.12
60255	60250	118.8	12	3.371	4.28	0.5748	13.43
60265	60250	163.9	15	0.104	1.35	0.4841	35.86
60270	60265	95	15	1.489	5.14	0.477	9.28
60275	60270	225.9	15	0.859	3.9	0.4773	12.24
60280	60275	276.4	15	0.485	2.92	0.4774	16.35
60285	60280	251.7	15	0.039	0.82	0.4774	58.22
60290	60285	116.4	15	0.54	3.09	0.4776	15.46
60295	60290	151.6	15	0.491	2.94	0.4776	16.24
60300	60296	81.8	15	0.445	2.8	0.4777	17.06
60305	60300	111.7	15	0.445	2.8	0.4777	17.06
60310	60305	241	15	0.445	2.8	0.4777	17.06
60315	60310	128.3	15	1.341	4.87	0.4778	9.81
60320	60315	234	15	0.632	3.34	0.4778	14.31
60325	60320	372.3	15	0.513	3.01	0.4778	15.87
60330	60325	258.9	15	1.197	4.6	0.4779	10.39
60335	60330	211.9	15	0.505	2.98	0.4648	15.60
60355	60350	237.1	15	0.611	3.28	0.2327	7.09
60360	60355	367	15	0.39	2.62	0.2328	8.89
60365	60360	193	15	0.667	3.43	0.2328	6.79

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
60370	60365	210.7	15	0.589	3.23	0.2328	7.21
60375	60370	207.2	15	0.416	2.71	0.2328	8.59
60380	60375	260.8	15	0.437	2.77	0.2329	8.41
60395	60390	86.8	15	0.209	1.91	0.233	12.20
60400	60395	350	15	0.676	3.46	0.0414	1.20
60410	60400	248.2	15	1.073	4.36	0.0415	0.95
60415	60410	347.6	15	1.2	4.61	0.0415	0.90
60420	60415	215	15	0.524	3.04	0.0415	1.37
60425	60420	297.5	15	0.178	1.77	0.0415	2.34
60430	60425	197.5	12	0.684	1.92	0.0415	2.16
60435	60430	126.1	12	0.163	0.93	0.0415	4.46
60440	60435	152.4	12	1.241	2.59	0.0415	1.60
60445	60440	107.4	12	0.502	1.65	0.0415	2.52
60450	60445	294.5	12	0.26	1.18	0.0415	3.52
60455	60450	299.6	12	0.669	1.9	0.0416	2.19
60460	60455	251	12	0.428	1.52	0.0416	2.74
60565	60345	330.7	6	1.13	0.39	0.0996	25.54
60575	60565	396.4	6	1.997	0.52	0.0871	16.75
60580	60565	284.9	6	9	1.11	0.0086	0.77
60585	60575	120.4	6	10.398	1.19	0.0192	1.61
60590	60575	284.8	6	2.674	0.6	0.0562	9.37
60595	60590	240.9	6	7.337	1	0.0394	3.94
60615	60610	261.6	6	6.297	0.93	0.0304	3.27
60620	60615	263.7	6	4.959	0.82	0.0132	1.61
60635	60630	199.3	6	2.957	0.63	0.0172	2.73
60640	60630	199.4	6	1.755	0.49	0.0152	3.10
60650	60645	240.1	8	0.246	0.39	0.0488	12.51
60655	60650	216	8	0.439	0.52	0.0451	8.67
60660	60655	288.9	8	2.295	1.2	0.0046	0.38
60665	60655	236.5	8	0.858	0.73	0.0362	4.96
60670	60665	288.3	8	1.406	0.94	0.0039	0.41
60675	60665	298.3	8	0.287	0.42	0.028	6.67
60680	60675	277.6	8	2.746	1.32	0.0045	0.34
60700	60695	165.5	8	3.654	1.52	0.0039	0.26
60705	60695	231.6	8	2.599	1.28	0.0027	0.21
60710	60405	95.4	8	5.428	1.85	0.1936	10.46
60715	60710	357	8	0.83	0.72	0.1812	25.17
60720	60715	270.7	8	1.711	1.04	0.1693	16.28
60725	60720	357	8	0.596	0.61	0.1299	21.30
60730	60720	272.8	8	3.114	1.4	0.0253	1.81
60735	60725	260.8	8	3.802	1.55	0.1185	7.65
60745	60730	144.9	8	3.819	1.55	0.0083	0.54

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
60755	60750	111.6	8	1.29	0.9	0.0196	2.18
60760	60750	96.3	8	1.272	0.89	0.0396	4.45
60765	60755	192.3	8	5.233	1.82	0.0134	0.74
60770	60755	355.9	8	3.349	1.45	0.0038	0.26
60775	60765	202.5	8	1.117	0.84	0.008	0.95
60780	60765	58	8	9.54	2.46	0.003	0.12
60785	60775	96.8	8	1.185	0.86	0.0051	0.59
60790	60785	115.2	8	7.562	2.19	0.003	0.14
60795	60780	114.3	8	2.519	1.26	0.0015	0.12
60800	60760	75	8	0.384	0.49	0.0381	7.78
60805	60800	189.1	8	0.234	0.38	0.0336	8.84
60810	60805	77.3	8	5.285	1.83	0.0098	0.54
60815	60805	279.9	8	0.454	0.53	0.0223	4.21
60820	60810	113.8	8	0.343	0.46	0.006	1.30
60825	60820	46.5	8	3.406	1.47	0.0052	0.35
60830	60825	79.2	8	9.751	2.48	0.0016	0.06
60835	60825	271.3	8	0.858	0.73	0.0029	0.40
60840	60815	119.3	8	6.54	2.03	0.0133	0.66
60845	60840	201.8	8	0.293	0.43	0.011	2.56
60855	60850	199.6	8	1.244	0.88	0.0892	10.14
60860	60855	278.6	8	2.415	1.23	0.0835	6.79
60865	60860	234	8	0.993	0.79	0.0751	9.51
60870	60860	226.3	8	4.956	1.77	0.0047	0.27
60880	60865	359.5	8	0.369	0.48	0.0377	7.85
60885	60865	255.3	8	0.646	0.64	0.0209	3.27
60895	60885	188.4	8	9.723	2.48	0.0051	0.21
60900	60560	231.9	8	0.37	0.48	0.0016	0.33
60905	60900	220.9	8	0.519	0.57	0	0.00
60910	60560	125	8	6.448	2.02	0.0351	1.74
60915	60910	209.6	8	0.657	0.64	0.0279	4.36
60920	60915	132.4	8	0.29	0.42	0.0197	4.69
60925	60920	251.9	8	0.579	0.6	0.0125	2.08
60930	60925	381.3	8	3.607	1.51	0.0055	0.36
60935	60230	278.8	8	0.641	0.63	0.0669	10.62
60940	60935	245.6	8	1.325	0.91	0.0655	7.20
60945	60940	251.3	8	1.25	0.89	0.0576	6.47
60950	60945	237.8	8	2.062	1.14	0.0458	4.02
60955	60950	397.6	8	6.174	1.97	0.0369	1.87
60960	60255	225.4	12	1.41	2.77	0.5753	20.77
60965	60960	250.5	12	0.3	1.27	0.5268	41.48
60970	60965	454.7	12	0.261	1.18	0.5286	44.80
60975	60970	180.7	12	1.724	3.06	0.535	17.48

City of Bryant
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Deign Storm Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
60980	60975	256.5	12	1.512	2.86	0.5352	18.71
60985	60980	193.2	12	0.541	1.71	0.5368	31.39
60990	60985	266.3	12	0.963	2.28	0.5379	23.59
60995	60990	231.1	12	0.45	1.56	0.5324	34.13
61010	61005	275.6	12	0.345	1.36	0.4236	31.15
61015	61010	118.2	12	1.222	2.57	0.4032	15.69
61020	61015	348.9	12	0.546	1.72	0.3707	21.55
61025	61020	322.6	12	1.827	3.15	0.373	11.84
61030	61025	351.3	8	0.495	0.56	0.3678	65.68
61035	61030	336.3	8	0.306	0.44	0.3707	84.25
61040	61035	389.9	8	2.805	1.33	0.3734	28.08
61055	61050	390.9	8	2.087	1.15	0.0433	3.77
61060	61055	186.2	8	1.97	1.11	0.0434	3.91
61065	61060	224.3	8	1.42	0.94	0.0434	4.62
61070	61065	80.6	8	4.104	1.61	0.0434	2.70
61075	60230	272.3	8	1.056	0.81	0.0239	2.95
61080	61075	198.4	8	1.682	1.03	0.0154	1.50
61085	61080	226.3	8	2.473	1.25	0.0098	0.78
50695	50690	458.1	6	5.165	0.84	0.0314	3.74
50700	50695	195.1	6	5.086	0.83	0.0249	3.00
50002	50001	395.7	10	0.426	0.93	1.1375	122.31
50003	50002	287.7	10	0.4	0.9	1.1376	126.40
50301	50295	253.1	10	0.687	1.19	0.7058	59.31
4271	4270	206.4	6	12.667	1.31	0.0129	0.98
4272	4271	206.4	6	0.591	0.28	0.0066	2.36
10065	50000	297.5	8	2.013	1.13	0.1001	8.86
10415	10410	321	8	0.842	0.73	0.0129	1.77
10420	10415	322.6	8	3.027	1.38	0.0055	0.40
10460	10455	217.6	12	0.772	2.04	0.8781	43.04
10520	10515	409.3	8	0.357	0.47	0.0363	7.72
10525	10520	371.6	8	0.357	0.47	0.0302	6.43
10540	10535	344.7	8	0.475	0.54	0.0095	1.76
10545	10540	299.4	8	0.475	0.54	0.0066	1.22
10695	10675	341.9	8	0.328	0.45	0.4577	101.71
10710	10695	397	6	3.023	0.64	0.0162	2.53
10715	10695	362	8	0.594	0.61	0.3906	64.03
10720	10695	93.1	8	1.6	1	0.0632	6.32
10965	10955	388.8	8	0.582	0.6	0.0128	2.13
10985	10965	291.5	8	0.629	0.63	0.0056	0.89
11230	11225	217.6	6	2.539	0.59	0	0.00
11235	11230	359.2	6	4.29	0.76	0	0.00
11370	11365	397.6	6	0.705	0.31	0.0137	4.42

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Deign Storm Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
11375	11370	251	6	0.498	0.26	0.013	5.00
12210	12211	60.3	8	6.42	2.01	0.0364	1.81
12215	12210	164.1	8	0.723	0.67	0.0204	3.04
12260	12265	150.9	6	0.705	0.31	0.0133	4.29
12265	12210	262.1	8	2.117	1.15	0.016	1.39
12270	12260	140.4	6	1.529	0.46	0.0124	2.70
12275	12270	140.2	6	3.474	0.69	0.0114	1.65
12290	12211	161.2	10	1.108	1.51	0.102	6.75
12355	12345	113.6	8	2.845	1.34	0.0083	0.62
12360	12355	75.3	8	0.757	0.69	0.0029	0.42
12365	12355	319.8	6	3.488	0.69	0.0024	0.35
12475	12470	187.4	6	3.481	0.69	0.0019	0.28
12480	12481	125.1	8	1.647	1.02	0.2186	21.43
12770	12765	139	8	1.521	0.98	0.0144	1.47
12775	12770	301.5	8	0.745	0.68	0.0122	1.79
13005	13000	101.2	8	0.051	0.18	-0.0003	-0.17
13010	13005	301.3	8	0.328	0.45	0	0.00
13015	13010	299.4	8	0.465	0.54	0	0.00
22005	22000	281.1	8	0.152	0.31	0	0.00
22010	22000	370	8	0.204	0.36	0.0123	3.42
22015	22000	405.9	8	0.492	0.55	0	0.00
22020	22010	375.5	8	0.204	0.36	0.0123	3.42
22025	22020	347.8	8	0.459	0.54	0.0123	2.28
22030	22025	285.8	8	0.453	0.53	0.0123	2.32
22035	22030	410.6	8	0.394	0.5	0.0123	2.46
22040	22030	312.7	8	0.243	0.39	0	0.00
22050	22035	306.7	8	0.394	0.5	0.0123	2.46
22055	22050	326.2	8	0.819	0.72	0.0123	1.71
22060	22055	244.2	8	0.459	0.54	0.0123	2.28
22065	22060	216.9	8	0.459	0.54	0.0123	2.28
22070	22065	174.4	8	1.269	0.89	0.0123	1.38
22075	22070	322	8	0.595	0.61	0.0123	2.02
22080	22075	161.4	8	1.782	1.06	0.0123	1.16
22085	22080	349.3	8	1.15	0.85	0.0123	1.45
22100	22085	291.4	8	1.986	1.12	0.0123	1.10
22105	22100	187	8	0.81	0.71	0.0112	1.58
22110	22105	163.1	8	4.125	1.61	0.0112	0.70
22115	22110	142.8	8	0.966	0.78	0.0099	1.27
22120	22115	361.4	8	1.805	1.07	0.0046	0.43
22125	22115	137.6	8	0.966	0.78	0.0033	0.42
22130	22120	192.7	8	1.503	0.97	0.0012	0.12
30142B	30142A	225.6	8	1.275	0.89	0	0.00

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
30142C	30142A	104.2	8	6.629	2.05	0	0.00
30200	30205	253.5	10	0.49	1	0.8975	89.75
30205	30210	291.8	10	0.57	1.08	0.8939	82.77
30210	30215	328.8	10	0.835	1.31	0.8974	68.50
30215	30160	386.8	10	1.313	1.64	0.8925	54.42
30281A	30281	349.8	6	4.129	0.75	0.0088	1.17
30295	30290	280.2	10	1.12	1.52	0.2835	18.65
30300	30295	47.6	6	11.33	1.24	0.007	0.56
30301	30300	205	6	1.034	0.37	0.0025	0.68
30305	30295	364.7	8	2.954	1.36	0.0142	1.04
30361	30295	354.8	8	2.022	1.13	0.26	23.01
30395	30400	334	6	0.946	0.36	0.0025	0.69
30400	30406	58.6	6	1.418	0.44	0.0062	1.41
30405	30410	366.8	8	0.943	0.77	0.0202	2.62
30406	30405	353.6	6	1.2	0.4	0.0115	2.88
30407	30405	134.4	6	8.752	1.09	0.0038	0.35
30410	30415	326	8	1.128	0.84	0.0273	3.25
30420	30425	365.5	8	2.944	1.36	0.0044	0.32
30425	30430	378.5	8	1.877	1.09	0.176	16.15
30435	30425	247.1	8	1.906	1.1	0.165	15.00
30501	30505	215.9	8	0.926	0.76	0.0075	0.99
30531	30530	213.3	8	3.078	1.39	0.0096	0.69
30532	30531	172.3	8	2.784	1.32	0.004	0.30
30590	30595	335	8	0.252	0.4	0.0064	1.60
30635	34030	257.2	8	0.568	0.6	0.0885	14.75
30725	30635	251.7	8	0.004	0.05	0.0551	110.20
30735	30435	390.9	6	0.707	0.31	0.1586	51.16
30745	30746	367.9	8	2.631	1.29	0.0073	0.57
30746	30746A	348.9	8	7.036	2.11	0.011	0.52
30746A	30747	6.7	8	14.108	2.99	0.0297	0.99
30746B	30746A	250.5	8	2.006	1.12	0.0177	1.58
30746C	30746B	427.1	8	4.542	1.69	0.014	0.83
30746D	30746C	352	8	3.3	1.44	0.0064	0.44
30830	30820	271	8	5.889	1.93	0.0091	0.47
30840	30830	340.5	8	4.331	1.65	0.0048	0.29
30949	30953	100.7	8	2.252	1.19	0.0238	2.00
31125	31261	181.2	8	3.508	1.49	0.0141	0.95
31135	31130	225.4	8	4.705	1.72	0.005	0.29
31140	31261	175.3	8	7.372	2.16	0.0013	0.06
31145	31261	80.9	8	4.89	1.76	0.0037	0.21
31185	31250	182.8	8	4.496	1.68	0.0254	1.51
31205	31165	381.3	8	1.191	0.86	0.004	0.47

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
31250	31210	313	8	0.245	0.39	-0.3947	-101.21
31261	31260	162.9	8	2.268	1.19	0.0203	1.71
31276	31275	124.3	6	14.958	1.43	0.0034	0.24
31290	31250	231.5	8	5.165	1.81	0.0047	0.26
32025	32035	197.2	8	0.752	0.69	0.1385	20.07
32136	32135	118.9	6	0.448	0.25	0	0.00
32137	32136	274.3	6	0.582	0.28	0	0.00
32140	32143	203.2	6	1.078	0.38	0.0067	1.76
32143	32135	175.3	6	1.608	0.47	0.0074	1.57
32180	32175	175.8	8	2.999	1.37	0	0.00
32185B	32185	202.2	8	4.383	1.66	0.0057	0.34
32236	32240	363.8	8	2.021	1.13	0.0147	1.30
33100	33117	268.6	10	0.446	0.96	0.4674	48.69
33117	33118	520.2	10	0.446	0.96	0.5121	53.34
33118	33121	384.8	10	0.446	0.96	0.5282	55.02
33119	33118	237	8	0.737	0.68	0.0107	1.57
33121	33122	373.4	10	0.446	0.96	0.5369	55.93
45005	45000	108.2	8	0.452	0.53	0.0038	0.72
50600	50595	404.5	10	0.191	0.62	0.2472	39.87
50600A	50600	165.1	8	0.29	0.42	-0.0009	-0.21
50605	50600	50.9	10	0.355	0.85	0.2442	28.73
50690	50680	305.6	6	0.661	0.3	0.0314	10.47
50710	50705	405.9	8	0.358	0.47	0.0433	9.21
50720	50715	114	6	0.843	0.34	0.0191	5.62
60025	60015	142.5	18	0.221	3.19	1.2981	40.69
60080	60075	204.1	18	0.088	2.01	1.1195	55.70
60085	60080	293.1	18	0.357	4.06	1.1206	27.60
60095	60090	222.5	18	0.484	4.73	1.1239	23.76
60185	60051	147.1	8	0.631	0.63	0.0382	6.06
60190	60185	271	8	0.528	0.57	0.033	5.79
60195	60190	179.3	8	0.446	0.53	0.0202	3.81
60200	60195	125.5	8	0.629	0.63	0.0087	1.38
60205	60195	136.1	8	0.342	0.46	0.0092	2.00
60340	60335	242.7	15	0.076	1.15	0.4494	39.08
60350	60340	195.6	15	1.389	4.96	0.2327	4.69
60385	60380	344.2	15	0.8	3.76	0.2329	6.19
60390	60385	229.5	15	0.208	1.91	0.233	12.20
60405	60395	379.8	10	1.145	1.54	0.1936	12.57
60465	60460	200.3	12	0.514	1.67	0.0416	2.49
60470	60465	92.8	12	1.325	2.68	0.0416	1.55
60475	60470	258.4	12	0.464	1.58	0.0416	2.63
60480	60475	396	12	0.883	2.19	0.0416	1.90

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
60485	60480	220.1	12	0.218	1.08	0.0416	3.85
60490	60485	213.3	12	0.633	1.85	0.0416	2.25
60495	60490	30	12	0.851	2.15	0.0417	1.94
60500	60495	126.6	12	1.62	2.97	0.0417	1.40
60505	60500	345.8	12	1.474	2.83	0.0417	1.47
60510	60505	401.1	12	1.092	2.43	0.0417	1.72
60515	60510	385.2	12	1.404	2.76	0.0417	1.51
60520	60515	103.8	12	0.412	1.49	0.0417	2.80
60525	60520	104.5	12	2.061	3.35	0.0417	1.24
60530	60525	358.4	12	1.14	2.49	0.0417	1.67
60535	60530	298.1	12	0.511	1.66	0.0417	2.51
60540	60535	339.7	8	1.752	1.05	0.0417	3.97
60545	60540	342.3	8	1.424	0.95	0.0417	4.39
60550	60545	326	8	1.869	1.08	0.0417	3.86
60555	60550	113.2	8	1.255	0.89	0.0418	4.70
60560	60555	306.6	8	3.624	1.51	0.0418	2.77
60676	60675	275.8	8	0.287	0.42	0.0179	4.26
60690	60676	182.2	8	3.83	1.55	0.0045	0.29
60695	60676	283.8	8	0.287	0.42	0.0102	2.43
60740	60735	277.1	8	1.887	1.09	0.1074	9.85
61000	60995	72.5	12	1.204	2.56	0.4691	18.32
61005	61000	318.9	12	0.362	1.4	0.4469	31.92
61090	61040	382	8	0.881	0.74	0.359	48.51
61100	61090	215	8	0.689	0.66	0.3509	53.17
61105	61100	255.9	8	1.066	0.82	0.3471	42.33
61110	61105	342.2	8	0.76	0.69	0.3237	46.91
61115	61105	330.1	8	2.424	1.24	0.019	1.53
61120	61115	214.9	8	7.233	2.14	0.0055	0.26
61125	61115	332.6	8	1.329	0.91	0.0033	0.36
61130	61125	226.1	8	6.162	1.97	0	0.00
60345	60340	183	12	1.904	3.22	0.2207	6.85
60600	60595	232.2	6	1.316	0.42	0.0223	5.31
60610	60570	268.8	12	1.06	2.4	0.0479	2.00
60625	60605	364	8	2.357	1.22	0.0552	4.52
60630	60625	235.2	6	4.005	0.74	0.0368	4.97
60850	LS-26_WW	104.3	8	1.194	0.87	0.103	11.84
60750	LS-27_WW	97.5	8	0.643	0.63	0.0598	9.49
61050	LS-06_WW	372.8	8	0.697	0.66	0.0433	6.56
21020	21015	200	8	3.895	1.57	0.0035	0.22
21010	20945	150.4	8	1.704	1.04	0.0045	0.43
20945	LS-07_WW	82.6	8	4.841	1.75	0.0649	3.71
30065	30060	300.1	8	1.14	0.85	0.0085	1.00

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USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
20280	20270	312.6	8	0.375	0.48	-0.0007	-0.15
22000	LS-28_WW	328.6	8	0.204	0.36	0.0326	9.06
10270	LS-19_WW	20	8	1.95	1.11	0.114	10.27
10400	10395	174.7	8	0.237	0.38	0.0336	8.84
10425	LS-03_WW	145.3	8	3.314	1.45	0.0258	1.78
10330	LS-24_WW	69.8	8	0.601	0.61	0.043	7.05
13000	LS-30_WW	207.9	8	0.138	0.29	0.0077	2.66
10925	LS-18_WW	221.7	8	0.531	0.58	0.0695	11.98
10920	10915	74.8	6	0.361	0.22	0.001	0.45
50715	50710	278.8	6	0.445	0.24	0.0349	14.54
4256	LS-04_WW	97.9	6	4.781	0.81	0.0329	4.06
4251	LS-04_WW	22.5	6	1.937	0.51	0.0168	3.29
60000	LS-25_WW	40.1	18	1.353	7.93	1.3781	17.38
60645	LS-21_WW	211.7	8	0.189	0.34	0.0513	15.09
12211	LS-11_WW	93	10	0.268	0.74	0.1398	18.89
12000	LS-10_WW	59.6	10	0.599	1.11	0.3345	30.14
12575	LS-22_WW	33.4	8	0.74	0.68	0.4302	63.26
11465	LS-09_WW	73.8	8	0.746	0.68	0.0515	7.57
12481	11015	148	8	1.026	0.8	0.1873	23.41
11005	LS-12_WW	33.8	8	5.579	1.88	0.3186	16.95
12520	12525	98.3	8	2.049	1.14	0.0015	0.13
12555	LS-02_WW	40.3	8	0.532	0.58	0.0168	2.90
12820	LS-36_WW	122.8	8	4.239	1.64	0.004	0.24
32065	LS-20_WW	170.6	8	0.846	0.73	0.2892	39.62
20865	LS-17_WW	263.2	8	0.54	0.58	0.004	0.69
20860	LS-17_WW	272.8	8	0.685	0.65	0.0024	0.37
20850	LS-17_WW	156.7	8	1.959	1.11	0.0019	0.17
45010	LS-14_WW	109.9	8	2.88	1.35	0.0056	0.41
45000	LS-14_WW	98.2	8	0.334	0.46	0.0038	0.83
22091	22090	250.4	8	2.21	1.18	0	0.00
22090	22080	345.8	8	2.271	1.2	0	0.00
22095	22040	80.6	8	1.123	0.84	0	0.00
22045	22030	200.2	8	0.457	0.53	0	0.00
50004	50003	382.1	10	0.27	0.74	1.1376	153.73
10790	10785	100.4	6	0.479	0.25	0.0024	0.96
10855	10845	249.9	8	1.873	1.09	0.0034	0.31
10596	10595	150.2	6	3.514	0.69	0.0072	1.04
10685	10680	200.2	6	0.485	0.26	0.0029	1.12
4091	4022	251.6	12	0.085	0.67	1.5396	229.79
4077	4076	274.8	6	3.004	0.64	0.0023	0.36
4082	4081	228.9	6	0.85	0.34	0.027	7.94
11305	11295	100.1	6	0.319	0.21	0	0.00

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Deign Storm Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
11270	11265	150.4	6	0.749	0.32	0.0003	0.09
11210	11205	200.1	6	2.49	0.58	-0.0001	-0.02
60570	60345	38.9	12	2.962	4.01	0.1213	3.02
60605	60570	255	8	1.901	1.09	0.0734	6.73
50391	50395	311.5	6	3.913	0.73	0.0318	4.36
4059A	4059	93.6	6	6.135	0.91	0.0037	0.41
4255	4254	258.7	6	4.15	0.75	0.0044	0.59
60741	60740	100	8	7.363	2.16	0.0957	4.43
50000	Outfall-1	82.8	10	1.173	1.55	1.2325	79.52
20005	Outfall-2	117.9	24	0.738	12.51	6.4698	51.72
10455	Outfall-3	62.2	12	1.447	2.8	0.8777	31.35
4131	4125	210.3	12	0.338	1.35	1.4689	108.81
4151	4149	184.7	6	0.35	0.22	0.0194	8.82
4148	4146	124.2	6	4.447	0.78	0.0011	0.14
4202	4189	460.3	6	0.951	0.36	0.0065	1.81
4189	4188	185.4	6	1.739	0.49	0.0107	2.18
4170	4169	131.6	10	0.427	0.94	0.1364	14.51
4319	4281	222.4	10	0.74	1.23	1.1214	91.17
4281	4276	307.5	10	0.092	0.43	1.1764	273.58
4300	4299	308.8	6	0.376	0.22	0.0314	14.27
4306	4305	216.7	6	8.187	1.06	0.0052	0.49
4231	4230	329.4	6	8.006	1.04	0.0053	0.51
4116	4115	352.1	8	6.673	2.05	0.0076	0.37
4400	4354C	491.7	8	1.38	0.93	0.2952	31.74
4354	4354A	77.3	10	0.536	1.05	0.4353	41.46
4410	4409	225	8	1.173	0.86	0.1289	14.99
4458	4455A	211.5	8	3.374	1.46	0	0.00
4455A	4457	134.6	10	3.06	2.51	0.0033	0.13
4492	4455A	90.5	8	1.154	0.85	0.0033	0.39
4327	4326	37.6	8	1.563	0.99	0.0032	0.32
30045	30035	299.8	8	1.147	0.85	0.0156	1.84
30180	30175	310.4	8	2.951	1.36	0.0047	0.35
30175	30170	310.5	8	2.391	1.23	0.0109	0.89
30171	30170	250	8	2.156	1.17	0.0075	0.64
30186	30185	302.5	8	2.646	1.29	0.0039	0.30
30140	30135	100.4	8	0.66	0.64	-0.0562	-8.78
30135	30145	99.6	8	9.283	2.42	-0.0695	-2.87
20105	20105A	405	12	0.089	0.69	0.2516	36.46
20105A	20095A	466.1	12	0.089	0.69	0.2447	35.46
20095A	20095B	71.9	24	0.16	5.8	1.7014	29.33
20095B	20095C	374.1	24	0.16	5.8	1.7038	29.38
20095C	20065	396.3	24	0.16	5.8	1.705	29.40

City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Deign Storm Utilization

USMH	DSMH	Length (ft)	Diameter (in)	Slope	Full capacity (MGD)	Peak Wet Weather Flow (MGD)	Utilization (%)
20095E	20095D	323.4	8	1.855	1.08	0.0016	0.15
20095D	20095B	262.6	8	1.078	0.82	0.003	0.37
60890	60885	150.7	8	2.369	1.22	0.0123	1.01
60875	60870	200.3	8	4.35	1.66	0	0.00
30142A	30142	231.9	6	6.098	0.91	0	0.00
30142	32141	119.5	6	6.505	0.94	0	0.00
32141	32138	213.5	6	1.659	0.47	0	0.00
32140A	32140	144.8	6	3.833	0.72	0.0005	0.07
32185A	31185	152.7	8	0.903	0.75	0.0195	2.60
34001	34000	300.7	8	3.631	1.51	0.0043	0.28
30925A	33129	389.3	10	0.446	0.96	0.7043	73.36
34040	30925A	211	8	2.585	1.28	0.0353	2.76
11336	11335	250.1	8	1.448	0.95	0.0103	1.08
11335	11330	200.2	8	4.307	1.65	0.0103	0.62
20375	20370	297.8	8	0.756	0.69	0.0081	1.17
20680	20660	99.1	8	4.036	1.6	0.0109	0.68
4545	4544	304.3	8	0.31	0.44	0.0075	1.70
4564	4563	260.7	8	0.123	0.28	0.101	36.07
4569	4568	271.2	8	0.462	0.54	0	0.00
4429A	4429	75.5	8	0.379	0.49	0.0045	0.92
11441	11440	145	8	4.671	1.72	0	0.00
11542	11540	62.2	8	3.49	1.48	0.0012	0.08
60296	60295	81.7	15	0.445	2.8	0.4777	17.06
LS-01-MH	LS-01_WW	28.1	10	3.561	2.72	0.0057	0.21
LS-13-MH	LS-13_WW	8.1	10	12.393	5.08	0.0767	1.51
LS-15-MH	LS-15_WW	8.9	10	11.207	4.83	0.007	0.14
LS-23-MH	LS-23_WW	16.5	10	6.074	3.55	0.1181	3.33
LS-29-MH	LS-29_WW	9.5	10	10.527	4.68	0.0087	0.19
LS-31-MH	LS-31_WW	34.2	10	2.928	2.47	0.0679	2.75
LS-32-MH	LS-32_WW	9.7	10	30.826	8.01	0.0226	0.28
LS-33-MH	LS-33_WW	26.4	10	3.79	2.81	0.0155	0.55
LS-34-MH	LS-34_WW	36.1	10	2.773	2.4	0.0252	1.05
LS-35-MH	LS-35_WW	14	10	3.571	2.72	0.039	1.43
LS-37-MH	LS-37_WW	37.7	10	2.652	2.35	0.0544	2.31
TP-LS-MH	AILPARK_LS_V	25.3	10	3.947	2.86	0.0293	1.02

**Appendix F was submitted on disc and has
been scanned to Zylab as a separate file.**

APPENDIX F

**HOURLY FLOW DATA
CD ONLY**





APPENDIX G

EXISTING SYSTEM CAPACITY IMPROVEMENTS



City of Bryant
Sewer Evaluation and Capacity Assurance Plan
Existing System Capacity Improvement

US MH	DS MH	Length (ft)	Existing Pipe Size (in)	Proposed Pipe Size (in)	Rate (\$)	Construction Cost (\$)
4092	4091	177.3	12	15	245	43,438.50
4093	4093A	90.2	12	15	245	22,099.00
4093A	4092	177.4	12	15	245	43,463.00
4095	4093	262.1	12	15	245	64,214.50
4109	4095	338.7	12	15	245	82,981.50
4110	4109	287.5	12	15	245	70,437.50
4111	4110	211.8	12	15	245	51,891.00
4118	4111	136.5	12	15	245	33,442.50
4119	4118	50.1	12	15	245	12,274.50
4122	4119	145.9	12	15	245	35,745.50
4123	4122	211.1	12	15	245	51,719.50
4124	4123	230.6	12	15	245	56,497.00
4125	4124	419.4	12	15	245	102,753.00
4132	4131	188.2	12	15	245	46,109.00
4133	4132	248.4	12	15	245	60,858.00
4134	4133	313.5	12	15	245	76,807.50
4134	4204	378.6	10	12	225	85,185.00
4204	4205	293.1	10	12	225	65,947.50
4205	4276	122.1	10	12	225	27,472.50
30015	30010	267	10	15	245	65,415.00
30070	30071	398	10	15	245	97,510.00
30071	30015	376.4	10	15	245	92,218.00
30075	30070	216.3	10	15	245	52,993.50
30076	30075	184.5	10	15	245	45,202.50
30120	30076	499	10	15	245	122,255.00
30120	30125	243.5	12	15	245	59,657.50
4091	4022	251.6	12	15	245	61,642.00
4131	4125	210.3	12	15	245	51,523.50
4276	4281	307.5	10	12	225	69,187.50
Total		7236.6				\$ 1,750,941.00