Alyssa Linenkugel, Place 1
Tomas Mendoza, Place 2
John Mounce, Place 3

James Castle, Place 4
Daniel Dennis, Place 5
Shelby St. Claire, Mayor Pro Tem Place 6

James Clark, Mayor

CITY OF JUSTIN
CITY COUNCIL AGENDA
SEPTEMBER 26, 2024
415 N. COLLEGE AVE.
5:30 PM

A) CALL TO ORDER

Convene into Session:
Invocation and Pledge of Allegiance
American Flag

Texas Flag: ***"Honor the Texas Flag; I pledge allegiance to thee, Texas, one state, under God, one and indivisible"***

B) EXECUTIVE SESSION

Any item on this posted agenda could be discussed in Executive Session as long as it is within one of the permitted categories under sections 551.071 through 551.076 and Section 551.087 of the Texas Government Code.

1.

- Under Section 551.071, to conduct a private consultation with the City Attorney regarding:

1. Danheim Complaint Against the City of Justin; PUCT Docket No. 53836
2. Petition of Town of Northlake and City of Justin; PUCT Docket No. 54243
3. Range Creek Developers Agreement
4. Trafford Terrace Developers Agreement
5. Oncor Transmission Line
6. Treeline Development

C) TAKE ANY ACTION AS A RESULT OF CLOSED EXECUTIVE SESSION ITEM(S)

D) PROCLAMATION

1. Presentation of a Proclamation declaring October 7-13, 2024 as National Fire Prevention Week.

E) UPCOMING MEETINGS AND EVENTS

1. The following is a list of upcoming meetings and events:

- October 1, 2024 National Night Out at 6:00 p.m.
- October 7, 2024 Municipal Court at 5:00 p.m.
- October 8, 2024 Justin Library Board meeting at 4:30 p.m
- October 8, 2024 Park Board meeting at 6:00 p.m.
- October 15, 2024 Planning & Zoning Commission meeting at 6:30 p.m.
- October 12, 2024 Justin Heritage Foundation Casino Night Fundraiser at 7:00 p.m.
- October 18, 2024 Blood Drive City Hall 7:00 a.m. to 4:00 p.m.
- October 19, 2024 Fish Fry at the Fire Department 4:30 p.m. to 7:30 p.m.
- October 24, 2024 City Council meeting at 5:30 p.m.
- October 24, 2024 City Hall Trick or Treat 2:00 p.m. to 4:00 p.m.
- October 24-25, 2024 Library Haunted House 11 a.m. to 7:00 p.m.

F) PUBLIC COMMENT

In order to expedite the flow of business and to provide all citizens with the opportunity to speak, the mayor may impose a three-minute time limitation for each citizen to speak with a seasonal limitation on speakers on one topic or item with a maximum of fifteen total minutes on the same topic. The Texas Open Meetings Act prohibits the City Council from discussing issues which the public have not been given a seventy-two (72) hour notice. Issues raised may be referred to City staff for research and/or placed on a future agenda.

G) REPORT

1. Discuss and receive an update regarding Gaston House.

H) CONSENT AGENDA

Any Council Member may request an item on the Consent Agenda to be taken up for individual consideration.

1. Consider approving the City Council minutes dated September 12, 2024; and take appropriate action.

2. Consider approving Resolution 709-24 supporting the TXDOT extension of FM 1171 and FM 407 West; and take appropriate action.

3. Consider adopting Ordinance 786-24, second reading, to adopt the Water and Wastewater Master Plan; and consider taking appropriate action.

4. Consider adopting Ordinance 790-24 approving the City of Justin's Texas Municipal Retirement System Benefit authorizing annual updated service credits; and take appropriate action.

5. Consider adopting Ordinance 789-24, second reading, authorizing the City of Justin to enter into an Atmos Franchise agreement; and take appropriate action.

6. Consider approving Resolution 710-24, awarding a contract to SPI Asphalt, LLC for miscellaneous asphalt repairs in the amount of $161,000, authorize the City Manager to execute the agreement; and take appropriate action.

7. Consider approving Resolution 711-24, awarding a contract to Vernara, LLC for miscellaneous concrete pavement repairs in the amount of $222,682.30, authorize the City Manager to execute

the agreement and take appropriate action.

I) ITEMS PULLED FROM CONSENT AGENDA

J) PUBLIC HEARING

1. Conduct a Public Hearing and consider adopting Ordinance 791-24, 1st reading, for a Specific Use Permit for a Temporary Batch Plant for LaDera Timberbrook legally described as A0439A M. Garnett, Tract 3E, generally located north of FM 407 and Timberbrook Parkway; and take appropriate action.

K) ACTION ITEM

1. Consider the appointment, reappointment and/or removal of a Park Board Member; and take appropriate action.

L) MAYORS RECAP

M) FUTURE AGENDA ITEMS

N) ADJOURN

I, the undersigned authority, do hereby certify that the above notice of the meeting of the City Council of the City of Justin, Texas, is a true and correct copy of the said notice that I posted on the official bulletin board at Justin Municipal Complex, 415 North College Avenue, Justin, Texas, a place of convenience and readily accessible to the general public at all times, and said notice posted 9/19/2024 by 5 p.m., in compliance with the Texas Open Meetings Act.

Amy Piukana
Amy Piukana, TRMC, City Secretary

JUSTIN
1887

PROCLAMATION

FIRE PREVENTION WEEK
OCTOBER 7-13, 2024

WHEREAS, the City of Justin is committed to ensuring the safety and security of all those living in and visiting our community; and

WHEREAS, fire is a serious public safety concern both locally and nationally and homes are the locations where people are at greatest risk from fire; and

WHEREAS, smoke alarms sense smoke well before you can, alerting you to danger in the event of a fire; and

WHEREAS, working smoke alarms reduce the risk of dying in reported homes by 50%; and

WHEREAS, Justin first responders are dedicated to reducing the occurrence of home fires and injuries through fire prevention education.

WHEREAS, the 2024 Fire Prevention Week theme, ***"Smoke alarms: make them work for you!",*** is a great reminder of the importance of checking your alarms and replacing batteries to ensure they are fully operational in your home to help keep your family and loved ones safe

NOW, THEREFORE, BE IT PROCLAIMED THAT: I, James Clark, Mayor of the City of Justin, do hereby proclaim October 7-13 as, ***"2024 National Fire Prevention Week in the City of Justin."***

Proclaimed this 26th day of September 2024.

James Clark

James Clark, Mayor

City Council Coversheet
September 26, 2024
415 N. COLLEGE AVE.

Agenda Item: 1. (REPORT)

Title: Discuss and receive an update regarding Gaston House.

Department: Administration

Contact:

Recommendation:

None.

Background:

On April 25th, the City Council approved a Specific Use Permit for a museum, which will include additional features like a park, mobile food trucks, and more.
Since then, staff have been meeting with the Justin Heritage Foundation every two weeks to discuss updates and ensure the project moves forward in a positive direction. As a result of these collaborative efforts, the following milestones have been achieved:

- A pedestrian-focused rendering has been created for marketing purposes.
- A sign with a QR code linking to the Justin Heritage Foundation website has been developed.
- Cost estimates for architectural and site exterior work for the entire project have been completed.
- Design plan costs have been identified for the contractor.
- A dedicated webpage on the City's website now features the Gaston House with a link to the Justin Heritage Foundation's site.
- A top 10 construction items list has been created to target grant funding opportunities.
- Discussions on project phasing and the site exterior process are underway.

Staff and the Justin Heritage Foundation would like to update the City Council on the project's progress and highlight the upcoming Casino Night event on Saturday, October 12th, at 7:00 p.m. at the Lucky Spur (1780 Strader Rd, Justin, TX).

City Attorney Review: No

Attachments:

1. 20240822-GastonBoard

2. City of Justin - Gaston House
3. Gaston House Architects fee schedule 08-26-24
4. LP-Gaston House proposal 08-07-24

THE GASTON HOUSE

Conceptual Perspective Rendering

*Note: All graphic representations are for conceptual use only and were prepared based on the best information available at the time with no guarantee of completeness or accuracy.

Zoning Approval → Fund Raising → Final Design → Implementation

If you are interested in supporting the capital funding campaign for the Gaston house project, the team is calling on citizens to step up and contribute. Whether you can offer financial support or volunteer your time and expertise, every bit helps in making this project a reality.

Conceptual Site Plan

Scan for more information

JUSTIN HERITAGE FOUNDATION

JUSTIN 1887

The Gaston House

History, Preservation, Community

JHF
JUSTIN HERITAGE FOUNDATION

JUSTIN
1887

GARRISON/JONES
LANDSCAPE ARCHITECTS

EPT
COMMERCIAL

Current-State Exterior

roof & window
temp weatherproofing

wiring panel at entry

cast iron sewer

concrete front porch

wood rear porch

The Gaston House Program

JUSTIN HERITAGE FOUNDATION

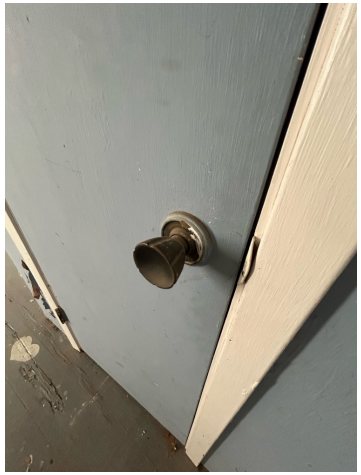
JUSTIN 1887

GARRISON/JONES LANDSCAPE ARCHITECTS

EPT COMMERCIAL

Current-State Interior

various room additions



various door hardware types

various door types

ornamental door casings

The Gaston House Program

JHF JUSTIN HERITAGE FOUNDATION

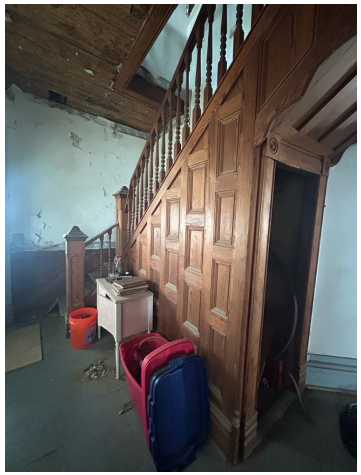
JUSTIN 1887

GARRISON/JONES LANDSCAPE ARCHITECTS

EPT COMMERCIAL

Current-State Interior

varying wall types



original stair woodwork

ornate window casings

varying floor types

The Gaston House Program

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JUSTIN 1887

GARRISON/JONES LANDSCAPE ARCHITECTS

EPT COMMERCIAL

Current State Interior Ceiling Systems

wood stained

plaster removed

acoustical ceiling grid

plaster in place

The Gaston House Program

JHF JUSTIN HERITAGE FOUNDATION

JUSTIN 1887

GARRISON/JONES LANDSCAPE ARCHITECTS

EPT COMMERCIAL

We consider this project a win if we _____.

a. preserve the history with purposeful restoration.

b. address the building and the site

c. create a special sense of place for the community

d. re-tell the story while honoring the legacy

e. All of the above

We would like to restore to a _____.

a. specific decade(s)

b. reflection of select decades

c. not sure

Our target audience for the project is_____.

a. Justin residents

b. Non-Justin residents

c. A destination for all

Roadmap of Phases

Phase 1 – ESTABLISH LANDMARK & VISION: Building Exterior & Core

High-Impact and High-Visibility

Urgent with degrading conditions

Able to Take Immediate Action, & Activate the Project

Phase 2 – CREATE THE PLACE: Building Site & Park

Create the gathering place & Activate the Site vision

Phase 3 – EXPERIENCE THE STORY: Building Interior

With finalized interior programming

Long-Lead interior materials & finish work

Optionality for museum or future tenant

Phase 1 Component – ESTABLISH THE LANDMARK & VISION

Building Exterior & Core

1. **Exterminate**
   - critters & varmits, infestations [fleas]

2. **Remediate / Abate**
   - mold, asbestos, lead, trash

3. **Select Demolition**
   - take back to studs inside, removing all ceiling & wall finishes
   - salvage & archive select items such as door casings, corbels
   - existing stairwell to remain
   - remove all wiring
   - remove all plumbing
   - remove select non-era modifications
   - remove all rot / damage interior & exterior
   - demo concrete entry porch

Phase 1 Component – ESTABLISH THE LANDMARK & VISION

Building Exterior & Core [cont'd]

4. **Select Replacement Structural**
   - Replace all structural items [rafters, studs, beams joists, roof & floor decking

5. **Select Restoration Exterior**
   - Replace Exterior 'Like for Like' with NEW [roofing, windows, doors, screens]
   - Repair / Replace [Exterior siding, soffit]
   - Replace porches with wood
   - Repaint

6. **Place Monument Sign**
   - Tell the story - The Building History and future plans

Phase 2 Component – CREATE THE PLACE

Building Site & Park

1. **Underground infrastructure to site**
   - Water, power, gas, sewer

2. **Garrison Jones Plan**
   - All landscape & site programming

Phase 3 Component – EXPERIENCE THE STORY

Building Interiors

1. **Finalize Interior Program** [Museum | Tenant | etc.]

2. **Finalize Interior Design**

3. **Finalize Interior Finishes**
   - Restoration plan for any items
   - Finalize selections
   - Source Materials [trimwork, doors & hardware, fixtures, finishes & millwork]

4. **Install New MEP & Interiors**
   1. Electrical, mechanical & plumbing installations

5. **Activate Interior of Building**

Budget & Logistics

Phase 1 – ESTABLISH LANDMARK & VISION: Building Exterior & Core

6-9 Months - $350 - 500k

Phase 2 – CREATE THE PLACE: Building Site & Park

6-9 months - $1.0 - 1.25M

Phase 3 – EXPERIENCE THE STORY: Building Interior

6-9 Months - $350 - 500k

Phase 1: Budget & Logistics

ESTABLISH LANDMARK & VISION: Building Exterior & Core

6-9 Months - $350 - 500k

Exterminate	$	2,500
Remediate	$	60,000
Select Demolition	$	60,000
Select Replacement Structural	$	125,000
Select Restoration Exterior	$	150,000
Place Monument Sign	$	2,500
Contingency 15%	$	45,000
Target Budget Value	$	445,000

Phase 1: The Deliverable

ESTABLISH LANDMARK & VISION: Building Exterior & Core

The Gaston House Program

JHF JUSTIN HERITAGE FOUNDATION

JUSTIN 1887

GARRISON/JONES LANDSCAPE ARCHITECTS

EPT COMMERCIAL

Phase 2: Budget & Logistics

CREATING THE PLACE: Building Site & Park

6-9 Months - $1.0 – 1.25M

Site Infrastructure	$	250,000
Site Work	$	750,000
Landscaping	$	150,000
Branding	$	10,000
Contingency 15%	$	40,000
Target Budget Value	$	1,200,000

Phase 3: Budget & Logistics

EXPERIENCE THE STORY: Building Interior

6-9 Months - $350 - 500k

Mechanical, Electrical, Plumbing	$	150,000
Interior Materials & Labor	$	250,000
Interior Installations	$	20,000
Contingency 15%	$	25,000
Target Budget Value	$	445,000

Mr. Matt Cyr
Director of Development Services and Economic Development
City of Justin Texas

 August 26, 2024

Architects fee schedule

Total fee .....$ 128,700.00

Phase 1. Predesign and Programming
10% of the fee of $.....$ 12,870.00

Phase 2. Schematic Design
10% of the fee of $.....$ 12,870.00

Phase 3. Design Development
20% of the fee of $.....$ 25,740.00

Phase 4. Construction Documents
57% of the fee of $.....$ 73,359.00
This includes:
Architectural
Architectural specifications
Mechanical/electrical/plumbing engineering
Structural engineering

Phase 7. Construction Administration
3% of the fee of $.....$ 3,861.00

Total Architectural Fee .....$ 128,700.00

Mr. Matt Cyr
Director of Development Services and Economic Development
City of Justin Texas

 August 7, 2024

ARCHITECTURAL FEE PROPOSAL

This proposal is based on providing architectural services for the Gaston House Restoration, Justin, Texas
Architects shall provide services for 1 building.

All related site work, parking, site utilities, pools, walks and landscaping are not a part of this proposal.
ADA review and review fees are not a part of this proposal

PHASE 1. PREDESIGN AND PROGRAMMING

City of Justin Texas code review if applicable
- Review client's survey and property easements, restrictions, set-backs, heights and parking limits.

PHASE 2. SCHEMATIC DESIGN
- Prepare the architectural schematic design drawings such as:
  - Site plan [provided by others]
  - Floor plans
  - Exterior elevations
    These drawings would be a combination of AutoCad / freehand sketches and computer graphic modeling.
- Preliminary materials selection
- Determine a preliminary structural system.
- Review soils testing report provided by others
- Consult and coordinate preliminary design for foundation, site and soil conditions
- Review schematic plans, sections and elevations for rough construction cost estimates.

PHASE 3. DESIGN DEVELOPMENT
- Refine the project based on input from the above review and add preliminary structural and MEP designs and an updated cost estimate. This design will be presented for review and approval with the client.
- Prepare architectural design development drawings of:
  - site plan [provided by others]
  - floor plans
  - exterior elevations
  - roof plan
  - cross sections
  - wall sections
  - design details
- special presentation perspectives and models may be prepared and considered additional services.

- coordinate with landscape design [Landscape design by others]
- coordinate with civil design [Civil engineering design by others]

PHASE 4. CONSTRUCTION DOCUMENTS

- Construction Documents will be executed from approved Architects design development.
- , Architects will prepare a complete set of construction documents. These will include architectural, structural, mechanical, electrical and plumbing drawings and specifications.
  - Review previous decisions on structural, construction, mechanical, and other systems for possible economies and improvements.
  - **PLEASE NOTE:** All construction documents [architectural / MEP and structural] will be to 5 feet outside of the building perimeter. All other construction documents from this point out will be by others.

PHASE 5. INTERIORS

Architects will make interior finishes selections such as:

1. Flooring selections
2. Paint colors
3. Stain colors
4. Ceramic tiles
5. Counter tops

Architects will not make interior finishes selections such as:

6. Window coverings
7. Accessories
8. Art
9. Custom designed lighting fixtures
10. Furniture selections

PHASE 6. LEED DOCUMENTATION *considered an additional service not part of basic services*

- Larson & Pedigo can assist the owner in getting a basic LEED certification for this project. Silver, gold or platinum certifications will be an additional service. It is understood that this decision needs to be made during Phase 2 SCHEMATIC DESIGN to ensure the proper use of materials/products for LEED points and required documentation. We will provide in our documents reasonable energy efficiency and sustainability within the constraints of the project budget. This proposal does not include any work related to LEED certification or other green initiative programs.

PHASE 7. CONSTRUCTION OBSERVATION

During construction Architects will:

- Answer questions related to the construction documents

- Answer field related questions during construction
- Review applications for payment if applicable
- Review all submittals from the contractor or subcontractors
- Review shop drawings
- Site visits

  Architect……..…4 site visits

  All site visits will be followed up with a written report and photographs.

PHASE 8. ADDITIONAL SERVICES – NOT A PART OF BASIC SERVICES

If additional services are requested, we propose to furnish architectural services on an hourly basis, at the rates listed under Compensation. Consultant work beyond that described in this proposal will be done for a fee to be negotiated. No additional services will be performed without prior authorization by the Client and or Owner.

Items not a part of basic services would be:

1. Any work more than 5 feet outside of the building line.
2. All work associated with expediting and/or procuring permits or zoning changes.
3. "as built " drawings for client or city
4. Once a certain phase is approved by the Owner/client and Architects and consultants have started the next phase, any revisions to the previous phase that affect the phase in progress will be revised and considered an additional service. A fee for these revisions will be discussed and approved in writing by the Owner / client. This includes any revisions to the phase currently in progress.
5. Costs of a third party inspector during construction.
6. ADA review fess are not part of basic services

Owner / client provided information to Architect

1. Soil report with a test hole at the proposed building location.
   This report will give a foundation design recommendation for one inch potential vertical rise . (PVR)

2. Civil engineering design showing:
   a. all site utilities
   b. topography
   c. property lines

MECHANICAL / ELECTRICAL / PLUMBING
SCOPE OF BASIC SERVICES & METHODOLOGY OF WORK

Technical Clarifications

MEP/FP
• Our scope of work extends to 5'-0" outside of building perimeter walls.

• Design of foundation drainage systems is not included.

• HVAC will be via all-electric DX split system equipment. [if applicable]

• Design of air-conditioned spaces is based on standard temperature conditions of 75°F/50% relative humidity (uncontrolled) with no special temperature, humidity, or filtration requirements.

• No design services for commercial food preparation are included.

• No electrical power conditioning or emergency power system designs are included except as required by code.

• Communications, security, and audio-visual systems are not included in the electrical fee.

• Empty low voltage conduits and telecommunications backboards are included in the electrical fee.

• Lighting and dimming system design services for specialized and architectural lighting would be by others. Lighting scope is limited to general area lighting design and circuiting of specialized, architectural lighting designed by others.

• Fire protection design services are limited to criteria specifications only, with actual design services, hydraulic calculations and piping design documents by the design/build sprinkler subcontractor.

• All site utilities are presumed to be adequate for building requirements without need for supplemental or booster systems.

• Smoke modeling engineering analysis (if required) shall be performed by others.

• Wall jacks, faceplates, patch panels, wireless access points (common area Wi-Fi), termination blocks, racks, wire management, grounding, and fire stopping. Design and specification of PBX equipment, servers, switches, routers, CATV amplifiers, taps, directional couplers, and other similar componentry are not included.
Design to be by others

• Design and specification of electrified door devices (magnetic locks, door strikes, hold-open devices, push bars, etc.) is not included.

• Design and specification of non-networked access systems (Saflok, Schlage, etc.) is not included.

• Design and specification of vehicle gate system is not included.

Audio/Visual
•This design is by others, not a part of these services. The client / Owner will be responsible for these services.

Security system
•This design is by others, not a part of these services. The client / Owner will be responsible for these services.

Other Limitations and Assumptions

• Perform Comcheck energy compliance for lighting and mechanical.

• LEED and/or Green building programs, documentation and analyses are **not included.**
See additional services

• Representation at Owner/Architect/Contractor meetings during construction is not included.

• All work associated with expediting and/or procuring permits is excluded.

A partial list of items not include in this proposal is as follows:

1. Any work more than 5 feet outside each building
2. Parking area, landscape, and site lighting design and circuiting
3. Any work related to the swimming pool or services for the pool. We will design the building electric service to include capacity for the pool equipment based on information to be provided to us by the pool system designer.
4. HVAC systems analysis and consumption estimates for the operation cost of mechanical and electrical systems.
5. “as built” record drawings for the client or City.
6. Responsibility for custom lighting fixture design, selection, photometrics, locations, installation details, illumination levels, or aesthetics of any lighting design provided by interior designers or others. We will not be responsible for neon, cold cathode, or any similar types of custom lighting installations designed by interior designers or others.
7. Audio / Visual design as mentioned above.
8. Building access control such as key cards or key fob’s
9. Hazardous material survey or the design for the removal or abatement of contaminated or hazardous materials discovered during the project.

STRUCTURAL ENGINEERING
SCOPE OF BASIC SERVICES & METHODOLOGY OF WORK

1) Construction documents for the engineering design of the foundation including slabs and deep foundation elements, walls including load bearing and shear walls and/or lateral bracing, and superstructure floor and roof framing.
   Structural engineering is limited to the building, attached porches, and under all outward swinging doors up to a coordinated cold joint in the porch slab. Other flatwork design will be by others.
   Structural Engineering Design does not include the design of retaining walls.

2) Construction administration services that include engineering review of fabrication and erection submittals, structural product data submittals, and structurally related test reports to check for conformance with structural design (one review of structural submittals included in basic fee).
   Construction Administration services also include review and response to written Requests for Information regarding elements of the structural design.

In order for us to perform our services, we require the following:

a) The geotechnical engineer shall classify the site soils according to 2015 IBC Section 1803.3 and recommend foundation design criteria according to current IBC Chapter 18 for slab-on-ground foundations to arrive at 1" of potential vertical movement, along with recommending site improvement methods according to current IBC Section 1805.8.3 or 1805.8.4.
b) Topographic survey indicating the relationship of proposed finish grades relative to existing grades and the finish floor elevations.
c) Roof drainage and loading requirements for mechanical equipment.
d) Architectural design drawings that include, but are not limited to, floor plans and building elevations.
e) • This proposal is predicated upon all design work being completed within a mutually acceptable schedule, and within one year of the date of this proposal.

BASIC SERVICES FEE

We propose to furnish the work described under Basic Services. Invoices will be submitted monthly. Basic Services do not include Additional Services .

Architectural phases 1, 2, 3, 4, 5 and 7 as listed in Scope of basic services……	**A fixed fee of $ 128,700.00**
*Additional services.. not part of basic services Architectural **phase 6,** LEED certified certificate…….. Owner will need to also hire a LEED administrator and a LEED Commisioning agent to complete the Leed process.*	Considered additional services
Architectural phases beyond these phases are …….	Considered additional services
Structural Engineering services as described in Scope of Basic Services……..	Included in fee above
Structural Engineering services requested beyond the scope of basic services……..	Considered Additional services
MEP as described in Scope of Basic Services HVAC, Plumbing, Electrical and Fire Protection Design Services ……	Included in fee above
MEP services requested beyond the scope of basic services……..	Considered Additional services
Landscape Architecture design……	By others, not a part of basic services
Additional Services requested by the client and not part of basic services……	Hourly as listed below or a negotiated sum approved in writing by the client

If after 18 months from the signature date of this proposal the drawings are not complete through no fault of the Architect, Architects may renegotiate a fee to complete the unfinished portion of services.

ADDITIONAL SERVICES hourly rates

Architects
Architects Principle……$210.00/hr
Architects Associate……$110.00/hr
Additional site visits……Hourly
Structural Engineer
Services performed by a principal engineer:…… $150.00 /hr
Services performed by an associate engineer: …… $100.00 / hr
Services performed by a staff engineer ……$65.00/ hr
Mechanical/Electrical/Plumbing Engineer
MEP Officer /Principal…… $190.00/hr
MEP Sr. Associate……$150.00/hr
Project Manager……$150.00/hr
Engineer……$140.00/hr
Designer……$130.00/hr
Cad/Design……$ 95.00/hr
Administrative staff……$ 75.00/hr

REIMBURSABLE EXPENSES

Reimbursable expenses shall be billed to the Client with no mark-up and will include the following:

1. Delivery expenses for deliveries to the Client and Owner and Contractor.
2. Plotting charges for plots made for the Client and Owner and contractor.
3. Reproductions made for the Client, Owner and Contractor.
4. Graphic and/or marketing renderings
5. TAS [Texas Accessibility Standards] review fees shall be paid by the owner

---
Paul Pedigo
Larson & Pedigo Architects LLC
Dated: August 7, 2024

……
Mr. Matt Cyr
Director of Development services and
Economic Development
Dated:

Alyssa Linenkugel, Place 1
Tomas Mendoza, Place 2
John Mounce, Place 3

James Castle, Place 4
Daniel Dennis, Place 5
Shelby St. Claire, Mayor Pro Tem, Place 6

James Clark, Mayor

MINUTES

State of Texas
County of Denton
City of Justin

Justin City Council Regular Session Meeting - September 12, 2024

A) CALL TO ORDER

Convene into Session:
Invocation and Pledge of Allegiance
American Flag

Texas Flag: ***"Honor the Texas Flag; I pledge allegiance to thee, Texas, one state, under God, one and indivisible"***

Present
Mayor James Clark, Mayor Pro Tem Shelby St. Claire, Council Member Alyssa Linenkugel, Council Member John Mounce, Council Member Tomas Mendoza, Council Member James Castle, Council Member Daniel Dennis

City Staff: City Manager, Jarrod Greenwood, Assistant City Manager, Abbey Reece, City Secretary, Amy Piukana, Human Resource Director, Janet Holden, Finance Director Josh Armstrong, and City Attorney, Matthew Boyle.

With a quorum of members present, Mayor Clark called the meeting to order at 5:31 p.m.

Pastor Beaux Hinote of First Baptist Church of Justin led the invocation. Mayor Clark led the Pledge of Allegiance and Pledge to the Texas Flag.

B) EXECUTIVE SESSION

Any item on this posted agenda could be discussed in Executive Session as long as it is within one of the permitted categories under sections 551.071 through 551.076 and Section 551.087 of the Texas Government Code.

The City Council recessed into closed executive session at 5:40 p.m. and reconvened into open session at 6:25 p.m.

1.

- Under Section 551.071, to conduct a private consultation with the City Attorney

regarding:

1. Danheim Complaint Against the City of Justin; PUCT Docket No. 53836
2. Petition of Town of Northlake and City of Justin; PUCT Docket No. 54243
3. Range Creek Developers Agreement
4. Trafford Terrace Developers Agreement
5. Oncor Transmission Line
6. Treeline Development

C) TAKE ANY ACTION AS A RESULT OF CLOSED EXECUTIVE SESSION ITEM(S)

No action was taken as a result of closed session.

D) PROCLAMATION

1. Presentation of a Proclamation recognizing September 2024 as Live United month in the City of Justin.

Mayor Clark presented March Pritts, Director of Marketing and Katherine Quinones, Sr. Development Manager a proclamation recognizing September as Live United month in the City of Justin.

E) UPCOMING MEETINGS AND EVENTS

1. The following is a list of upcoming meetings and events:

- September 17, 2024 Planning and Zoning Commission Meeting at 6:30 p.m.
- September 19, 2024 EDC/CDC Meeting at 6:00 p.m.
- September 19, 2024 Special Called City Meeting (if necessary) at 5:30 p.m.
- September 26, 2024 City Council Meeting at 5:30 p.m.
- October 1, 2024 National Night Out at 6:00 p.m.
- October 7, 2024 Municipal Court at 5:00 p.m.
- October 8, 2024 Justin Library Board meeting at 4:30 p.m
- October 8, 2024 Park Board meeting at 6 p.m.
- October 10, 2024 City Council meeting at 5:30 p.m.
- October 12, 2024 Justin Heritage Foundation Casino Night Fundraiser at 5:00 p.m.
- October 18, 2024 Blood Drive City Hall 7:00 a.m. to 4:00 p.m.
- October 19, 2024 Fish Fry at the Fire Department 4:30 p.m. to 7:30 p.m.
- October 24, 2024 City Council meeting at 5:30 p.m.
-October 24-25, 2024 Library Haunted House TBD

Mayor Clark announced upcoming meeting events noting the Heritage Casino Night Fundraiser will be held at 7 p.m. instead of 5 p.m.

F) PUBLIC COMMENT

In order to expedite the flow of business and to provide all citizens the opportunity to speak, the mayor may impose a three-minute limitation on any person addressing the Council. The Texas Open Meetings Act prohibits the City Council from discussing issues, which the public have not been given a seventy-two (72) hour notice. Issues raised may be referred to City staff for research and/or placed

on a future agenda.

The following audience members spoke:

- Tracy Kirkpatrick, spoke expressing concerns regarding Library Card issuance, utility bill requirements to obtain a new card, limiting families to three cards per household and the importance of encouraging community engagement through public access to the Library.

G) WORKSHOP

1. Discuss the creation of a Youth Council Advisory Board.

Council Member Linenkugel provided a PowerPoint presentation on the creation of a Youth Council Advisory Board.

The City Council discussed the application process, age range, budgeting, career management, and the option to extend it to early college students.

The consensus from City Council was for staff to move forward with the creation of a Youth Advisory Council.

2. Discuss the option to increase solicitor's fees and fines.

Mayor Pro Tem St. Claire briefed the City Council regarding this item.

The City Council discussed the non-emergency number for Denton County Sherriff's Office, education and communication about the current solicitor's policy, permits, fines, process for dispatch with the Police Department, average monthly permits, other city policies and procedures, incentives for businesses to obtain permits, no knock list, time limit of permits, access badges, fee increase to cover all costs including vests, and enforcing a deposit to require return of the vest.

Staff explained they would review the current policy and bring forward a new proposed policy for City Council review and approval.

3. Discuss the Strategic Plan

City Manager Jarrod Greenwood briefed City Council regarding this item.

The City Council thanked Mr. Greenwood for his presentation, noting the City needs clear goals. After discussion, the City Council unanimously agreed they would support the proposed Strategic Plan.

H) CONSENT AGENDA

Any Council Member may request an item on the Consent Agenda to be taken up for individual consideration.

Council Member Mounce made a motion to approve Consent Items, as presented. Motion seconded by Mayor Pro Tem St. Claire. Motion approved unanimously.

1. Consider approving City Council meeting minutes dated August 22, 2024; and take appropriate action.

2. Consider approving Resolution 706-24 for the negotiated settlement between the Atmos Steering committee and Atmos Energy Corp, Mid-Tex division's 2024 rate review mechanism filings; and take appropriate action.

3. Consider adopting Ordinance 789-24, first reading, authorizing the City of Justin to enter into an Atmos Franchise agreement; and take appropriate action.

4. Consider adopting Ordinance 785-24, second reading, approving an Amendment to the existing Planned Development Agreement (SF-1 PD-597-15) for Meadowlands Phase 1, legally described as Lots 1-7, Block A. Generally located southwest from the intersection of FM 407 and Meadowview Drive; and take appropriate action.

5. Consider approving Resolution 707-24 for a final plat for Treeline Phase 1A-1F, generally located south from the intersection of Collingwood Drive and FM 407; and take appropriate action.

6. Consider approving Resolution 708-24 adopting a Strategic Plan; and take appropriate action.

I) ITEMS PULLED FROM CONSENT AGENDA

No items were pulled.

J) PUBLIC HEARING(S)

1. Conduct a Public Hearing on the FY 2024-2025 Budget.

Director of Finance Josh Armstrong was present to answer questions.

Mayor Clark opened the public hearing.

The following citizen provided comments:

- Mr. Kenneth Harbin, spoke expressing concerns regarding high taxes in Justin.

There being no further speakers, Mayor Clark closed the public hearing.

2. Conduct a Public Hearing on a proposed tax rate of $0.622851 per $100 of taxable value. "A tax rate of $0.622851 per $100 valuation has been proposed for adoption by the governing body of the City of Justin. This rate exceeds the no new revenue tax rate and the voter approval tax rate but does not exceed the de minimis rate for the city of Justin, Texas for the fiscal year beginning October 1, 2024, and ending September 30, 2025."

Director of Finance Josh Armstrong was present to answer questions.

Mayor Clark opened the public hearing. There were no citizens present that wished to speak.

Mayor Clark closed the public hearing.

K) ACTION ITEMS

1. Consider adopting Ordinance 787-24 approving the FY 2024-2025 City of Justin Municipal Budget; and take appropriate action.

   "A tax rate of $0.622851 per $100 valuation has been proposed for adoption by the governing body of the City of Justin. This rate exceeds the no new revenue tax rate and the voter approval tax rate but does not exceed the de minimis rate for the City of Justin, Texas for the fiscal year beginning October 1, 2024, and ending September 30, 2025."

Motion made by Council Member Mounce to adopt Ordinance 787-24 approving the FY 24-25 City of Justin Municipal Budget and reducing revenue by $227,570. Motion seconded by Mayor Pro Tem St. Claire. Motion approved unanimously by record vote.

2. Consider and take appropriate action to approve Ordinance 788-24 to adopt a tax rate of $0.622851 per $100 valuation, which is made up of a rate of $0.545596 per $100 valuation for Maintenance and Operations; and a rate of $0.077255 per $100 valuation for servicing currently outstanding Debt.

Motion made by Council Member Dennis to adopt Ordinance 788-24, with the amendment that the property tax rate be increased by the adoption of a tax rate of .600118, which is effectively a 2.407% percent increase in the tax rate Motion seconded by Mayor Pro Tem St. Claire. Motion approved unanimously by record vote.

Motion made by Council Member Mounce to ratify the property tax increase reflected in the Fiscal Year 2024-2025 Budget as required by Local Government Code 102.007(c).
Motion seconded by Council Member Linenkugel. Motion approved unanimously.

L) MAYOR'S RECAP

Mayor Clark provided a recap.

M) FUTURE AGENDA ITEMS

Council Member Linenkugel requested a future agenda item to discuss a meeting with JYSA, Parks and Recreation, Public Works Team to discuss the contract with a November target date to meet.

N) ADJOURN

There being no further business, Mayor Clark adjourned the meeting at 7:58 p.m.

Signed by: _____
Mayor James Clark

Amy Piukana
Amy Piukana, TRMC, City Secretary

Seal:

City Council Coversheet
September 26, 2024
415 N. COLLEGE AVE.

Agenda Item: 2. (CONSENT AGENDA)

Title: Consider approving Resolution 709-24 supporting the TXDOT extension of FM 1171 and FM 407 West; and take appropriate action.

Department: Administration

Contact: Abbey Reece

Recommendation:

Approve the joint resolution as presented.

Background:

TxDOT has reached out to the City in request for an administrative support document as they move forward with next phasing in the alignments for FM 407 and FM 1171.

The attached resolution is simply in support of the alignments for FM 407 and FM 1171.

City Attorney Review:

Attachments:

1. Resolution 709-24

RESOLUTION 709-24

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF JUSTIN IN SUPPORT OF THE FARM-TO-MARKET 407 AND 1171 IMPROVEMENT PROJECT JOINT SUPPORT FOR ALIGNMENT AND SCOPE.

WHEREAS, the City of Justin is a home rule city lying and being situated within the County of Denton, State of Texas; and,

WHEREAS, the Texas Department of Transportation (TXDOT) is a Texas state agency responsible for the construction, maintenance and improvement of the State's major thoroughfares including Farm-to-Market roads; and,

WHEREAS, the City of Justin desires and supports the improvement, expansion, and construction of east-west transportation corridors through both municipalities, specifically Farm-to-Market Roads 407 and 1171; and,

WHEREAS, FM 407 and 1171 are major thoroughfares that provide and will provide mobility and access to both the City of Justin which are each experiencing unprecedented growth, particularly at the intersections of the north-south corridors FM 156 and IH-35W; and,

WHEREAS, the City of Justin desires and supports that Farm-to-Market Roads 407 and 1171 be grade-separated from the BNSF Railroad for the timely arrival of emergency personnel to all areas of both municipalities; and,

WHEREAS, the City of Justin desires and supports that Farm-to-Market Roads 407 and 1171 minimize the impact to existing residents and property owners along the proposed routes; and,

WHEREAS, on March 21, 2019, TXDOT held a public input meeting to seek input for various potential alignments of FM 407; and,

NOW, THEREFORE, BE IT HEREBY RESOLVED THAT:

Section 1.

The City of Justin agrees and supports the immediate improvement and realignment of Farm-to-Market Roads 407 and 1171 from Interstate 35W west to FM 156.

Section 2.

The City of Justin agrees and supports the alignment of FM 407 to follow the technically preferred route as proposed by TXDOT design consultants, Civil and Associates.

Section 3.

The City of Justin agrees and supports a six-lane divided road section from Interstate 35W to FM 156 and an undivided four-lane section west of FM 156 with the minimal amount of right-of-way necessary as recommended by TXDOT design consultants.

Section 4.

The City of Justin agrees and supports the alignment of FM 1171 to follow the technically preferred route as proposed by TXDOT design consultants.

Section 5.

The City of Justin encourages TXDOT and other state and local leaders to support the improvement and expansion of FM 407 and 1171 as much needed relief for mobility and access in the region.

Section 6.

This Resolution shall become effective from and after its date of passage.

DULY RESOLVED by the City Council of the City of Justin, Texas, on this the 26th day of September 2024**.**

City of Justin, Texas

_____
James Clark, Mayor

ATTEST:

_____
Amy Piukana, City Secretary

City Council Coversheet
September 26, 2024
415 N. COLLEGE AVE.

Agenda Item: 3. (CONSENT AGENDA)

Title: Consider adopting Ordinance 786-24, second reading, to adopt the Water and Wastewater Master Plan; and consider taking appropriate action.

Department: Administration

Contact: Matthew Cyr, Director of Planning and Development

Recommendation:

Staff recommends approval as presented.

Background:

On May 2, 2023, the City of Justin entered into an agreement with Westwood Professional Services, Inc. to provide planning services for several critical initiatives, including the Unified Development Code (UDC), Master Planning, FM 156 Planning, Old Town Planning, Ad Valorem analysis, and an update to the Master Water and Sewer Plan.The Master Water and Sewer Plan has been in development for several months and is now nearing completion, making it ready for adoption.

This plan is a crucial component in managing the significant growth that the City of Justin is currently experiencing. A well-crafted master water and sewer plan is essential for ensuring that the city can meet the water and sewer needs of its residents and businesses as the community expands. It provides a strategic framework for the development and maintenance of the city's water and sewer infrastructure, ensuring that it remains reliable, efficient, and capable of supporting future growth.

These plans are grounded in the Comprehensive Plan, which was adopted on March 28, 2023, and serve as a blueprint for Justin’s long-term growth and development. The Comprehensive Plan guides the city’s planning efforts, including the development of the Master Water and Sewer Plan, ensuring that all aspects of the city’s growth are managed in a coordinated and sustainable manner.

METHODOLOGY:

A question was raised regarding the engineering methodology used in this master water and wastewater plan. The plan assumes a Hazen Coefficient of 110, which reflects the relative roughness of a pipe's interior surface. This dimensionless empirical value is applied in the Hazen-Williams equation to account for the impact of pipe material on flow resistance. The same assumptions were used in the Timberbrook project. The 110 coefficient was used to account for the pipe as it ages. As water pipes age, they get rougher and build-up occurs on the pipes. The risk with using too high of a coefficient

would be pump capacity/headloss in system as it ages resulting in lower pressures. Using too low of a Hazen Coefficient would create issues where oversized pipes and pumps could occur due to inflated headlosses where new PVC does not degrade at the same rate as older cast iron and AC pipe. Westwood will be available to address any further questions about the methodology.

City Attorney Review: No

Attachments:

1. Proposed Wastewater Master Plan
2. Proposed Waster Master Plan
3. Ord 786-24 Wastewater Master Plan

WASTEWATER MASTER PLAN

CITY OF JUSTIN, TEXAS

JULY 2024

PREPARED FOR:

City of Justin, Texas, Texas

PREPARED BY:

Westwood

Westwood

City of Justin, Texas

Wastewater Masterplan

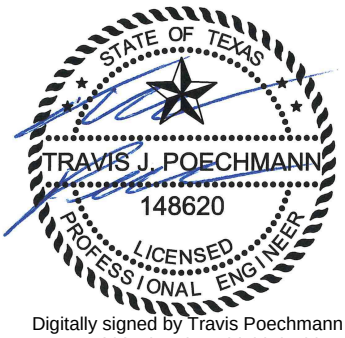
City of Justin, Texas

Prepared For:

City of Justin, Texas, Texas

Prepared By:

Westwood Professional Services
5725 W. Badura Avenue, Suite 100
Las Vegas, NV 89118
Phone: (702) 284-5300



Digitally signed by Travis Poechmann
Date: 2024.07.10 15:06:00-07'00'

Project Number: R0044439.00
Date: July 2024

Travis Poechmann, P.E.
TX Professional Engineer No. 148620

Assisted by: Abel Garcia Morales, E.I.

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Appendix B SewerGems Model Output Tables

1 Introduction

1.1 Project Overview

This report provides a wastewater master plan for the existing and future infrastructure facilities for the City of Justin, Texas including Extraterritorial Jurisdiction (ETJ) acquired in the last few years.

An existing wastewater model originally from 2013 was used as the base model. The model was updated to show current construction/planned development. The assumed existing infrastructure was determined to be infrastructure near the end of the design stage and close to construction/plans approval. The future infrastructure was considered as full buildout of City of Justin including ETJ. See Figure 1 – Location Map, for the project location in Appendix A.

The information presented in this report is at a planning level only and should not be considered the final design of the proposed wastewater system. Details of the proposed infrastructure facilities will require refinement as the detailed parcel layouts and roadway plans are developed.

1.2 Land Use to Wastewater System Analysis

Land Use to Wastewater System analysis assumptions are listed below. See Figure 2 – Land Use Plan in Appendix A.

Existing,

- Existing infrastructure used existing land uses while areas with submitted/approved plans used the planned land uses.
- Existing Homes within ETJ are assumed to be on septic and it is assumed that they will not be connected to the sewer infrastructure in the future.
- Existing lift stations discharge flow rates are assumed to match the basin peak flow for modeling purposes.

Future Areas,

- The assumed land uses for future development were either single family residential (SFR) or commercial. Future single family was assumed to have a density of 5 Single Family Residential units per acre. Future commercial parcels used a sewer contribution rate of 1,500 gpd/acre.
- Parcels directly adjacent to the FM 401 were assumed future commercial and all other land was assumed SFR.
- Future lift stations discharge flow rates are assumed to match the basin peak flow for modeling purposes.

The model was updated using submitted development plans, current NearMap aerials, and City of Justin GIS accordingly.

1.3 Operational Requirements

The average flow rate and the peak flow rate are used conjunctively to adequately design and size the wastewater collection system. A design criterion was established by evaluating adjacent city design standards, existing usage data from the City of Justin, and Texas administrative code. Assumed design requirements for gravity sewers collection system is presented in Tables 1.2.

TABLE 1.1: ASSUMED GRAVITY SEWER DESIGN CRITERIA

Design Parameter	Requirement
Minimum Gravity Pipe Diameter (inches)	6
Minimum Design Pipe Slope (ft/ft)	0.003 (Future) 0.0010 (Existing)
Minimum Velocity (fps)	2.0 @ 50% full
Maximum Depth to Diameter (d/D) Ratio	Full Pipe Flow [(1)]
Mannings Friction Coefficient	N = 0.013
Peaking Factor	4

Notes:

1) A d/D ratio of 0.96 or 96% was used to be conservative and allow time to execute design and construction of improvements.

2 Wastewater Contributions

2.1 Wastewater Contribution Rates

Wastewater contribution flow rate evaluation used treatment plan data records. Table 2.1 summarizes the applicable wastewater contribution rates used.

TABLE 2.1: CITY OF JUSTIN WASTEWATER CONTRIBUTION RATES

Land Use	Contribution Rates (gpd/Unit)	Contribution Rates (gpd/Acre)
Single-Family Residential (SFR)	220	1,100(1)
Multi-Family Residential (MFR)	180	---
Commercial/Non-Residential	---	1,500

Notes:
1) Future model assumes a density of 5 units per acre, thus 1,100 gpd/acre.

2.2 Existing Wastewater System Basin Contributions

The existing wastewater system contains multiple smaller basins connected to the existing City of Justin wastewater treatment plant via lift stations. Table 2.2 summarizes the average day flow and peak flow at each basin.

TABLE 2.2: EXISTING WASTEWATER SYSTEM BASIN CONTRIBUTIONS

Basin	Average Day Weather Flow (MGD)	Peak Flow (MGD)
Meadowlands Lift Station	0.0462	0.1849
12th Street LS (Private)	0.0306	0.1223
12th Street LS (Downtown)	0.0395	0.1579
Timberbrooks LS	0.2776	1.1106
City of Justin Treatment Plant	2.1261	3.7844
Total Flow	**2.5200**	**5.3601**

2.3 Future Wastewater System Basin Contributions

City of Justin sewer is planned to connect to the Trinity River Authority of Texas Denton Creek Regional Wastewater System. The future wastewater system model contains multiple smaller basins connected to two outfalls: the existing City of Justin wastewater treatment plant area and Denton Creek. These modeled outfalls will eventually connect to the Denton Creek Regional Wastewater System southeast of City of Justin. Existing topography analysis identified future sewer basins within ETJ that are assumed to connect

to the modeled outfalls via lift stations. Table 2.3 and Table 2.4 summarizes the average day flow and peak flow at each basin.

TABLE 2.3: FUTURE JUSTIN TREATMENT PLANT WASTEWATER SYSTEM BASIN CONTRIBUTIONS

Basin	Average Day Weather Flow (MGD)	Peak Flow (MGD)
Meadowlands Lift Station	0.0462	0.1849
12th Street LS (Private)	0.0306	0.1223
12th Street LS (Downtown)	0.0395	0.1579
Timberbrooks LS	0.3906	1.2235
Southwest ETJ LS	0.3933	1.5732
City of Justin Treatment Plant	5.0754	14.3371
Total Flow	**5.9756**	**17.5989**

TABLE 2.4: FUTURE DENTON CREEK OUTFALL WASTEWATER SYSTEM BASIN CONTRIBUTIONS

Basin	Average Day Weather Flow (MGD)	Peak Flow (MGD)
North ETJ LS	1.3029	5.2116
Denton Creek SS	0.2328	0.9312
Total Flow	**1.5357**	**6.1428**

3 Wastewater Collection System Model

3.1 Model Physical Attributes Development

The proposed City of Justin, Texas sewer collector model elevations, as presented in Figures 4 and 5, are based on existing grading and an existing wastewater model. Future manhole rim elevation was placed at existing grade surface. The pipe inverts were set at a minimum of seven feet below the rim elevation, unless the minimum slope requirements (Section 1.4 of this report) were not met, then lower inverts were required. Parcels are assumed to flow towards the main streets regardless of existing grade flow patterns. Parcels with submitted plans used the available plan manhole elevations. Final manhole invert elevations will be finalized during the improvement plans design for future buildout parcels.

Models of the proposed sewer lines were constructed using Bentley`s SewerGEMS. SewerGEMS integrates the slopes, pipe sizes, flows, Manning`s coefficient, lengths, and peaking factors to produce accurate sewer calculation results. SewerGEMS datasheets for Pipes, Manholes, and Outfalls are included the Appendix B.

3.2 Model Evaluation

The pipe segments were analyzed using peak dry weather flow in the existing conditions and future buildout conditions. All pipe segments with a depth to diameter (d/D) ratio greater than 0.96 were identified in this flow condition. Then, in a new model scenario, pipe segments identified over the d/D threshold set increased one pipe size at a time until the d/D in the new pipe met 0.96 d/D or less. In conditions where an isolated pipe segment was upsized all downstream pipe sizes were also increased to match until connecting to an existing matching pipe size or larger. This iterative process continued until all pipes met the requirements in all scenarios. Models showing all scenarios evaluated and recommended improvements are found in Figures 3 thru 10 in Appendix A.

3.3 Model Output

The manhole and pipe reports for average day flow and peak wet weather flow conditions in existing and future buildout are presented in Appendix B. The data can be compared with the operational requirements presented in Section 1.4 “Operational Requirements” of this report. The scenarios evaluated are listed below.

4 Existing Buildout Recommended Improvements

The existing buildout model update identified improvements that are recommended with the current wastewater collection system.

The 12th Street LS and Timberbrooks LS flows ultimately get discharged into MH-170. Full details of design flow capacity of the Timberbrooks LS are unknown. The peak flow from the Timberbrooks LS basin was used as the design flow for the LS. Based on these assumptions it is recommended to upsize approximately 2,730 LF of existing 12-inch sewer from MH-170 to MH-196 to 14-inch sewer prior to full buildout of the Timberbrooks LS basin. See Table 4.1 for summary.

TABLE 4.1: EXISTING BUILDOUT WASTEWATER MODEL IMPROVEMENTS

Pipe	Upstream MH	Downstream MH	Slope (ft/ft)	Length	Ex. Diameter (Inches)	Proposed Minimum Diameter (Inches)
CO-170	162	163	0.004	334.4	12	14
CO-189	163	153	0.005	333.0	12	14
CO-187	153	164	0.003	162.2	12	14
CO-177	164	158	0.003	187.5	12	14
CO-175	158	165	0.002	200.7	12	14
CO-166	165	166	0.003	153.0	12	14
CO-164	166	167	0.002	167.0	12	14
CO-162	167	168	0.002	367.2	12	14
CO-150	168	173	0.004	459.3	12	14
CO-148	173	188	0.005	365.3	12	14

Please note that the model is preliminary. Physical properties from the previous model were used for existing areas, submitted plans were used for areas in design or construction, and existing grade was used to assume physical attributes for future areas. True lengths and slopes can be surveyed to model more accurately.

It is recommended that the indicated pipes be upsized once an existing pipe flow depth of 90% is reached at the flattest pipe segment slope. This would allow time for design and construction of the improvements before full pipe flow is met in the gravity sewer collection system. Regular inspections in the existing system (old town) are recommended to avoid obstructions of flow during peak flow conditions. Table 4.2 summarizes the pipe flow capacity calculations for various slopes at 90% full. Calculations prepared used Bentley Flowmaster Connect Edition Update 3.

TABLE 4.2: PIPE FLOW CAPACITY CALCULATIONS

Diameter (Inches)	Slope (ft/ft)	Flow (MGD)	D/d (%)
12	0.002	1.0975	90
12	0.003	1.344000	90
12	0.004	1.552000	90
12	0.005	1.735000	90

5 Future Buildout Recommended Improvements

The future buildout model update identified improvements that are recommended within the current wastewater collection system.

At future buildout, it is recommended to upsize sewer along FM 407 near old town, College Ave, Allen Ave, Pafford Ave, a segment in the preserve phase two, and the CP1 to CP2 sewer near the city of Justin treatment plant. See Table 5.1 for summary.

TABLE 5.1: FUTURE BUILDOUT WASTEWATER MODEL IMPROVEMENTS

Pipe	Upstream MH	Downstream MH	Slope (ft/ft)	Length	Ex. Diameter (Inches)	Proposed Minimum Diameter (Inches)
CO-509	472	176	0.006	1,604.9	8	10
CO-140	176	177	0.003	368.4	8	10
CO-139	177	178	0.006	336.3	8	10
CO-138	178	179	0.026	38.0	8	10
CO-321	85	177	0.008	890.7	8	10
CO-320	86	179	0.005	760.4	6	8
CO-137	179	180	0.010	388.6	8	10
CO-136	180	181	0.013	687.9	8	10
CO-135	181	182	0.007	287.4	8	12
CO-133	182	183	0.003	389.0	8	12
CO-132	183	184	0.005	189.0	8	12
CO-131	184	185	0.014	217.1	8	12
CO-129	185	186	0.008	598.4	8	12
CO-128	186	187	0.047	0.047	8	12
CO-127	187	188	0.006	137.1	8	12
CO-449	21	358	0.003	147.3	12	15
CO-450	359	202	0.003	347.3	12	15
CO-358	426	427	0.003	294.4	30	36
CO-359	427	428	0.003	300.8	30	36
CO-361	428	429	0.004	212.1	30	36
CO-362	429	430	0.002	203.9	30	36
CO-364	430	431	0.002	84.1	30	36
CO-365	431	432	0.001	317.5	30	36
CO-368	432	433	0.001	556.6	30	36
CO-369	433	Justin Treatment Plant Outfall	0.034	189.0	30	36

Please note that the model is preliminary. Physical properties from the previous model were used for existing areas, submitted plans were used for areas in design or construction, and existing grade was used to assume physical attributes for future areas. True lengths and slopes can be surveyed to model more accurately.

Table 4.2 summarizes the pipe flow capacity calculations for various slopes at 90% full. Calculations prepared used Bentley Flowmaster Connect Edition Update 3.

TABLE 5.2: PIPE FLOW CAPACITY CALCULATIONS

Diameter (Inches)	Slope (ft/ft)	Flow (MGD)	D/d (%)
6	0.005	0.2733	90
8	0.003	0.4560	90
8	0.004	0.5265	90
8	0.005	0.5887	90
12	0.002	1.0975	90
12	0.003	1.3440	90
12	0.004	1.5520	90
12	0.005	1.7350	90
30	0.001	8.9360	90
30	0.002	12.6370	90
30	0.003	15.4780	90

6 Conclusions & Recommendations

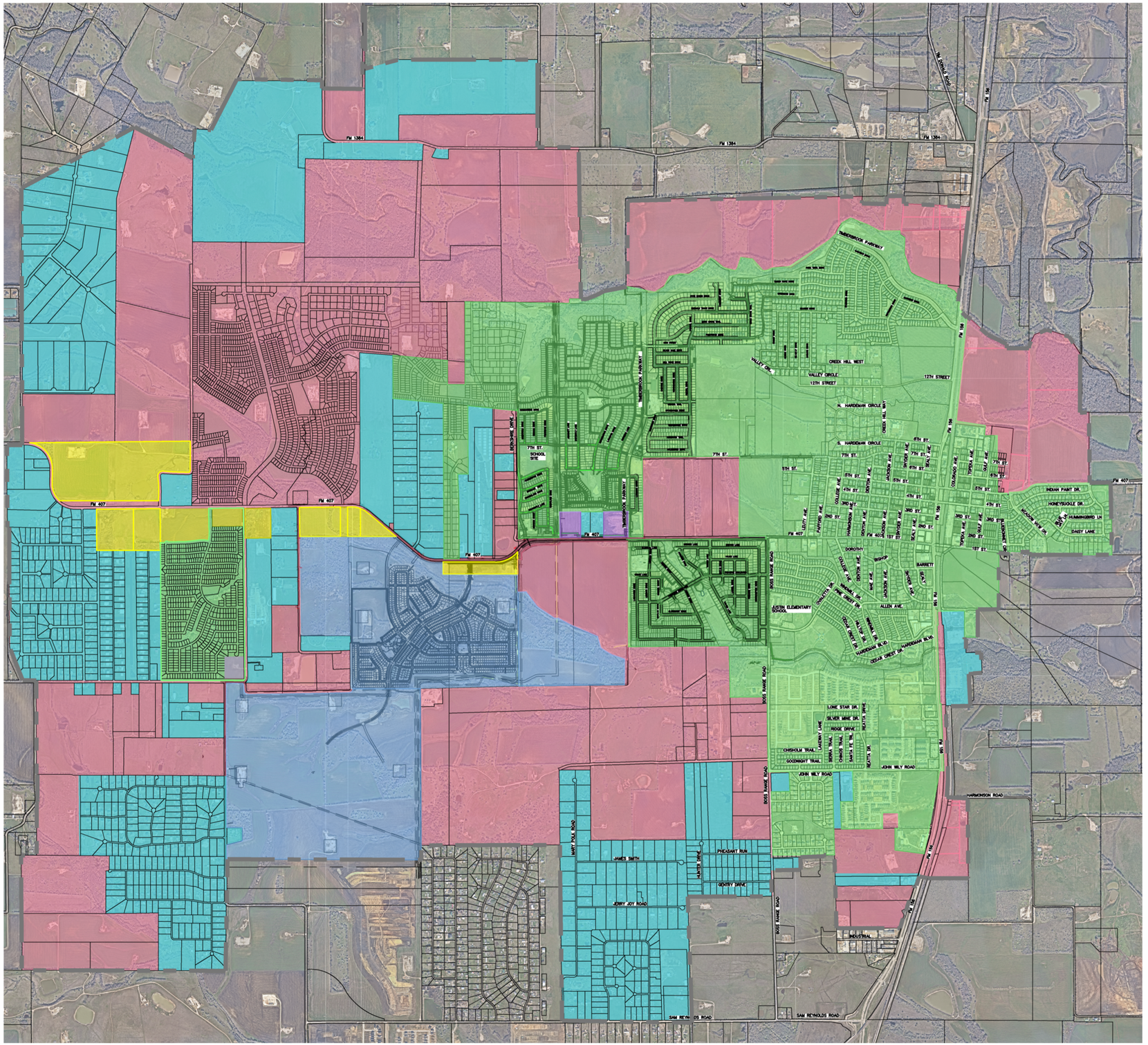
The wastewater infrastructure for the City of Justin, Texas development has been planned to meet the parameters presented in Section 1. The design and construction of the proposed wastewater infrastructure shall generally conform to the recommendations of this master plan. If flatter slopes are proposed during design the normal depth d/D shall be reevaluated to satisfy operational requirements from Section 1.3. If any further changes to the land use plan in Figure 1 occur, including but not limited to changes in parcel acreage, densities, and/or sewer routing, the wastewater master plan shall be re-evaluated to verify whether revisions to the infrastructure master plan will need to be made.

7 References

1. *The State of Texas. (n.d) Title 30 – Environmental Quality, Texas Administrative Code.*

Appendix A

Figures



LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - RESIDENTIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - COMMERCIAL
- TREELINE DEVELOPMENT
- EXTRATERRITORIAL JURISDICTION (ETJ) - NOT A PART

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN WASTE WATER MASTER PLAN UPDATE

LAND USE PLAN

DATE:	July 24
DRAFTER:	AGM
DESIGNER:	AGM
CHECKED:	TJP
PROJECT NO.	-

FIGURE 1

SHEET 1 OF 1

j:\0044439.00 city of justin water and wastewater mp\03-studies\04-cad\xref\city of justin - water pressure zones.dwg 7/10/2024 10:06 AM Abel Garcia Morales

Color Coding Legend
Conduit: Diameter (in)

<= 6.0
<= 8.0
<= 10.0
<= 12.0
<= 14.0
<= 15.0
<= 18.0
<= 21.0
<= 27.0
<= 30.0
<= 33.0
<= 36.0
Other

LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) – RESIDENTIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) – COMMERCIAL
- TREELINE DEVELOPMENT
- EXTRATERRITORIAL JURISDICTION (ETJ) – NOT A PART
- SEWER FORCEMAIN
- SEWER BASIN BOUNDARY

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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN

CITY OF JUSTIN WASTEWATER MASTERPLAN UPDATE
EXISTING PEAK FLOW - SEWER MAP

DATE: ----
DRAFTER: AGM
DESIGNER: AGM
CHECKED: TJP
PROJECT NO.
R0044439.00

FIGURE 2
SHEET 1 OF 1

2/8/2024 2:06 PM - Abel Garcia Morales - J:\R0044439.00 CITY OF JUSTIN WATER AND WASTEWATER MP\03-STUDIES\05-WWMP\CAD\MODELS\2024 WWMP UPDATE\2024 CITY OF JUSTIN WASTEWATER MODEL UPDATE.DWG

Color Coding Legend
Conduit: Depth/Rise (%)

<= 96.0
Other

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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN

CITY OF JUSTIN WASTEWATER MASTERPLAN UPDATE
EXISTING PEAK FLOW - DEPTH TO DIAMETER RATIO MAP

DATE: ----
DRAFTER: AGM
DESIGNER: AGM
CHECKED: TJP

PROJECT NO.
R0044439.00

FIGURE 3
SHEET 1 OF 1

LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - RESIDENTIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - COMMERCIAL
- TREELINE DEVELOPMENT
- EXTRATERRITORIAL JURISDICTION (ETJ) - NOT A PART
- SEWER FORCEMAIN
- SEWER BASIN BOUNDARY

2/8/2024 2:10 PM - Abel Godoy Morales - J:\R0044439.00 CITY OF JUSTIN WATER AND WASTEWATER APPLICATIONS\03-WWMP\CAD\MODEL\2024 WWMP UPDATE\2024 CITY OF JUSTIN WASTEWATER MODEL UPDATE.DWG

Color Coding Legend
Conduit: Diameter (in)

<= 6.0
<= 8.0
<= 10.0
<= 12.0
<= 14.0
<= 15.0
<= 18.0
<= 21.0
<= 27.0
<= 30.0
<= 33.0
<= 36.0
Other

LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) – RESIDENTIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) – COMMERCIAL
- TREELINE DEVELOPMENT
- EXTRATERRITORIAL JURISDICTION (ETJ) – NOT A PART
- SEWER FORCEMAIN
- SEWER BASIN BOUNDARY

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CITY OF JUSTIN, TEXAS

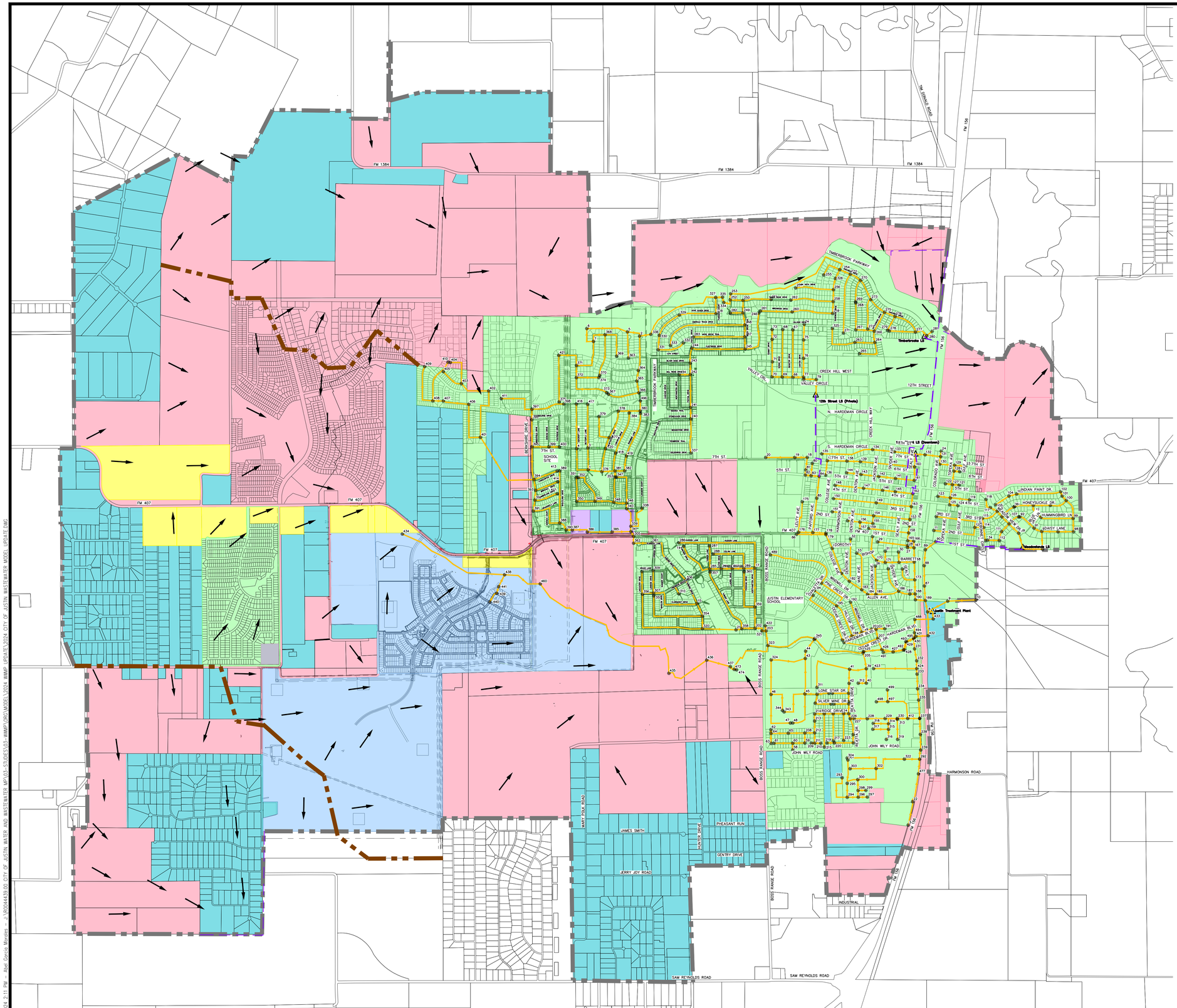
CITY OF JUSTIN

CITY OF JUSTIN WASTEWATER MASTERPLAN UPDATE
EXISTING PEAK FLOW - SEWER MAP (IMPROVEMENTS)

DATE: ----
DRAFTER: AGM
DESIGNER: AGM
CHECKED: TJP
PROJECT NO.
R0044439.00

FIGURE 4
SHEET 1 OF 1

J:\R0044439.00 CITY OF JUSTIN WATER AND WASTEWATER MP\03-STUDIES\03-WWMP GRCV MODELS\2024 WWMP UPDATE\2024 CITY OF JUSTIN WASTEWATER MODEL UPDATE.dwg
2/8/2024 2:11 PM Abel Garcia Morales



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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN

CITY OF JUSTIN WASTEWATER MASTERPLAN UPDATE

EXISTING PEAK FLOW - DEPTH TO DIAMETER RATIO MAP (IMPROVEMENTS)

DATE: ----
DRAFTER: AGM
DESIGNER: AGM
CHECKED: TJP

PROJECT NO.
R0044439.00

FIGURE 5
SHEET 1 OF 1

7/26/2024 2:11 PM - Axel Gocio Morales - J:\R0044439.00 CITY OF JUSTIN WATER AND WASTEWATER MP\03-STUDIES\03-WWMP\CAD\MODELS\2024 WWMP UPDATE\2024 CITY OF JUSTIN WASTEWATER MODEL UPDATE.DWG

Color Coding Legend
Conduit: Diameter (in)

<= 6.0
<= 8.0
<= 10.0
<= 12.0
<= 14.0
<= 15.0
<= 18.0
<= 21.0
<= 27.0
<= 30.0
<= 33.0
<= 36.0
Other

LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) – RESIDENTIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) – COMMERCIAL
- TREELINE DEVELOPMENT
- EXTRATERRITORIAL JURISDICTION (ETJ) – NOT A PART
- SEWER FORCEMAIN
- SEWER BASIN BOUNDARY

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CITY OF JUSTIN, TEXAS

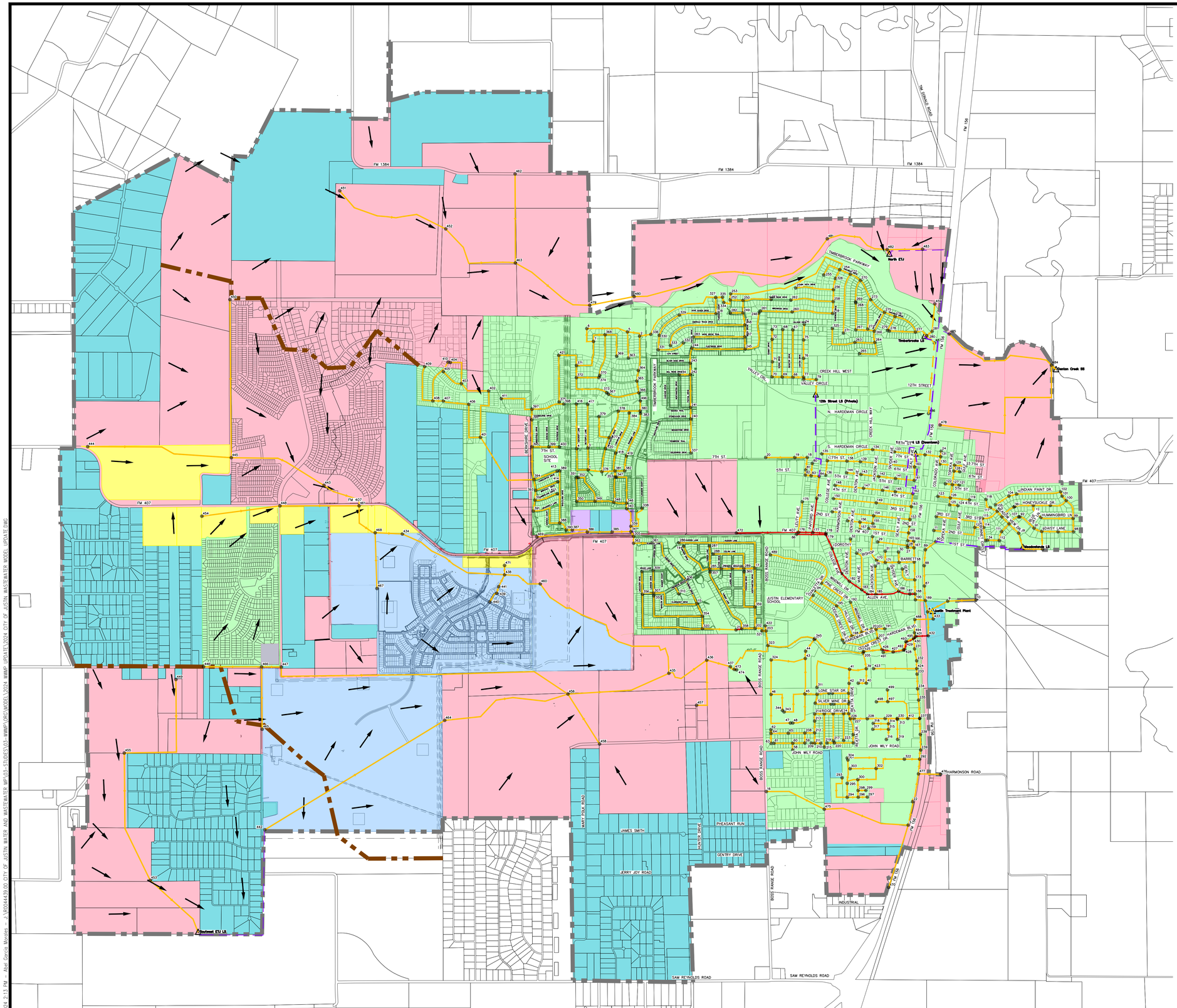
CITY OF JUSTIN

CITY OF JUSTIN WASTEWATER MASTERPLAN UPDATE
FUTURE PEAK FLOW - SEWER MAP

DATE: ----
DRAFTER: AGM
DESIGNER: AGM
CHECKED: TJP
PROJECT NO.
R0044439.00

FIGURE 6
SHEET 1 OF 1

2/8/2024 2:12 PM - Abel Garcia Morales - J:\R0044439.00 CITY OF JUSTIN WATER AND WASTEWATER MP\03-STUDIES\05-WWMP\DRW\MODEL\2024 WWMP UPDATE\2024 CITY OF JUSTIN WASTEWATER MODEL UPDATE.DWG



"7/8/2024 4:13 PM - Alex Gocke Morales - J:\R0044439.00 CITY OF JUSTIN WATER AND WASTEWATER MP\GIS-STUDIES\03-WWMP\DWG\MODELS\2024 WWMP UPDATE\2024 CITY OF JUSTIN WASTEWATER MODEL UPDATE.DWG

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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN WASTEWATER MASTERPLAN UPDATE
FUTURE PEAK FLOW - DEPTH TO DIAMETER RATIO MAP

DATE: ----
DRAFTER: AGM
DESIGNER: AGM
CHECKED: TJP

PROJECT NO.
R0044439.00

FIGURE 7
SHEET 1 OF 1

Color Coding Legend
Conduit: Diameter (in)

<= 6.0
<= 8.0
<= 10.0
<= 12.0
<= 14.0
<= 15.0
<= 18.0
<= 21.0
<= 27.0
<= 30.0
<= 33.0
<= 36.0
Other

LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) – RESIDENTIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) – COMMERCIAL
- TREELINE DEVELOPMENT
- EXTRATERRITORIAL JURISDICTION (ETJ) – NOT A PART
- SEWER FORCEMAIN
- SEWER BASIN BOUNDARY

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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN

CITY OF JUSTIN WASTEWATER MASTERPLAN UPDATE
FUTURE PEAK FLOW - SEWER MAP (IMPROVEMENTS)

DATE: ----
DRAFTER: AGM
DESIGNER: AGM
CHECKED: TJP
PROJECT NO.
R0044439.00

FIGURE 8
SHEET 1 OF 1

J:\R0044439.00 city of justin water and wastewater mp\03-studies\03-wwmp\gis\mxd\2024 wwmp update\2024 city of justin wastewater master update.dwg 7/19/2024 11:06 AM Abel Garcia Morales

Color Coding Legend
Conduit: Depth/Rise (%)

<= 96.0
Other

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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN

CITY OF JUSTIN WASTEWATER MASTERPLAN UPDATE

FUTURE PEAK FLOW - DEPTH TO DIAMETER RATIO MAP (IMPROVEMENTS)

DATE: ----
DRAFTER: AGM
DESIGNER: AGM
CHECKED: TJP

PROJECT NO.
R0044439.00

FIGURE 9
SHEET 1 OF 1

LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - RESIDENTIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - COMMERCIAL
- TREELINE DEVELOPMENT
- EXTRATERRITORIAL JURISDICTION (ETJ) - NOT A PART
- SEWER FORCEMAIN
- SEWER BASIN BOUNDARY

J:\R0044439.00 city of justin water and wastewater mp\03- studies\03- wwmp\cad\civil3d\2024 wwmp updates\2024 city of justin wastewater model updates dwg, 7/9/2024 11:07 AM, Abel Garcia Morales

Appendix B

SewerGems Model Output Tables

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
1	710.15	698.09	0.0000	0.0251	0.0251
2	697.00	688.00	0.0000	0.0636	0.0636
3	713.23	700.75	0.0037	0.0084	0.0121
4	715.75	703.96	0.0037	0.0092	0.0130
5	699.00	689.00	0.0000	0.0444	0.0444
6	701.00	692.50	0.0000	0.0392	0.0392
7	701.00	694.00	0.0000	0.0392	0.0392
8	616.65	597.00	0.0000	1.6786	1.6786
9	624.36	600.00	0.0000	0.0060	0.0060
10	615.22	611.22	0.0060	0.0000	0.0060
11	639.83	635.83	0.0009	0.0000	0.0009
12	630.00	626.00	0.0000	0.0018	0.0018
13	640.61	636.61	0.0009	0.0000	0.0009
14	684.46	677.74	0.0037	0.0000	0.0037
15	665.40	656.95	0.0020	0.2594	0.2614
17	672.00	660.12	0.0068	0.0328	0.0396
18	695.45	688.75	0.0121	0.0009	0.0130
19	700.00	693.50	0.0000	0.0009	0.0009
20	702.00	696.00	0.0009	0.0000	0.0009
21	655.88	641.91	0.0000	0.2959	0.2959
22	671.67	651.05	0.0000	0.0150	0.0150
23	636.98	632.98	0.0004	0.0000	0.0004
24	637.85	633.00	0.0004	0.0000	0.0004
25	643.27	639.27	0.0022	0.0000	0.0022
26	663.00	656.00	0.0033	0.0000	0.0033
27	641.33	637.33	0.0000	0.0022	0.0022
28	642.00	638.00	0.0004	0.0018	0.0022
29	662.29	658.29	0.0018	0.0000	0.0018
30	645.00	641.00	0.0009	0.0000	0.0009
31	653.81	649.81	0.0009	0.0000	0.0009
32	681.00	669.74	0.0040	0.0000	0.0040
33	673.00	662.09	0.0031	0.0000	0.0031
34	630.99	626.99	0.0018	0.0000	0.0018
35	628.00	624.00	0.0022	0.0000	0.0022
36	628.00	624.00	0.0020	0.0000	0.0020
37	625.00	621.00	0.0004	0.0000	0.0004
38	625.00	621.00	0.0007	0.0000	0.0007
39	626.00	622.00	0.0004	0.0293	0.0297
40	645.95	641.95	0.0000	0.0090	0.0090
41	646.00	639.00	0.0022	0.0180	0.0202
42	654.00	647.00	0.0000	0.0042	0.0042
43	639.22	630.25	0.0000	0.0521	0.0521
44	635.02	629.32	0.0000	0.0521	0.0521
45	664.58	651.86	0.0051	0.0163	0.0213
46	671.94	659.46	0.0051	0.0136	0.0187
47	683.37	676.59	0.0081	0.0000	0.0081

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
48	683.31	677.33	0.0046	0.0000	0.0046
49	680.62	674.00	0.0009	0.0026	0.0035
50	685.00	681.00	0.0026	0.0000	0.0026
51	679.25	672.00	0.0007	0.0000	0.0007
52	670.26	666.26	0.0004	0.0037	0.0042
53	681.22	677.22	0.0031	0.0000	0.0031
54	682.00	678.00	0.0022	0.0000	0.0022
55	669.37	665.37	0.0007	0.0051	0.0057
56	672.31	668.31	0.0000	0.0029	0.0029
57	685.00	681.00	0.0029	0.0000	0.0029
58	693.97	689.97	0.0004	0.0000	0.0004
59	692.00	683.50	0.0007	0.0048	0.0055
60	693.50	686.00	0.0018	0.0031	0.0048
61	695.00	691.00	0.0026	0.0000	0.0026
62	692.00	688.00	0.0004	0.0000	0.0004
63	695.00	691.00	0.0013	0.0000	0.0013
64	693.29	686.50	0.0024	0.0018	0.0042
65	691.97	684.00	0.0026	0.0042	0.0068
66	675.00	671.00	0.0004	0.0169	0.0174
67	689.00	686.00	0.0044	0.0000	0.0044
68	695.50	691.50	0.0044	0.0000	0.0044
69	676.19	672.22	0.0007	0.0119	0.0125
70	678.00	674.00	0.0024	0.0051	0.0075
71	686.09	682.00	0.0026	0.0024	0.0051
72	700.00	696.00	0.0015	0.0009	0.0024
73	702.00	698.00	0.0009	0.0000	0.0009
74	681.64	672.00	0.0068	0.0000	0.0068
75	684.00	669.00	0.0018	0.0068	0.0086
76	680.71	665.00	0.0015	0.0086	0.0101
77	673.00	662.00	0.0000	0.0275	0.0275
78	673.00	661.50	0.0013	0.0275	0.0288
79	670.00	659.00	0.0018	0.0288	0.0306
80	692.64	688.00	0.0007	0.0000	0.0007
81	697.00	687.00	0.0000	0.0130	0.0130
82	696.89	686.50	0.0013	0.0130	0.0143
83	695.07	686.00	0.0000	0.0150	0.0150
84	692.67	682.00	0.1245	0.0150	0.1395
85	686.04	675.00	0.0035	0.1395	0.1430
86	676.00	669.00	0.0009	0.0000	0.0009
87	629.75	625.84	0.0000	0.1849	0.1849
88	634.05	630.05	0.0000	0.1849	0.1849
89	638.00	634.00	0.0000	0.1849	0.1849
90	639.00	635.00	0.1849	0.0000	0.1849
91	608.57	604.57	0.0009	0.0015	0.0024
92	619.26	615.00	0.0015	0.0000	0.0015
93	621.16	617.16	0.0033	0.0007	0.0040

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
94	618.07	614.07	0.0018	0.0046	0.0064
95	596.25	592.25	0.0000	0.0286	0.0286
96	604.14	597.00	0.0000	0.0286	0.0286
97	604.00	600.00	0.0022	0.0240	0.0262
98	604.83	600.83	0.0018	0.0222	0.0240
99	615.32	604.00	0.0009	0.0213	0.0222
100	613.82	607.00	0.0018	0.0156	0.0174
101	613.00	608.00	0.0000	0.0092	0.0092
102	612.36	609.00	0.0000	0.0092	0.0092
103	617.60	615.00	0.0062	0.0031	0.0092
104	623.40	617.00	0.0009	0.0022	0.0031
105	630.59	622.00	0.0022	0.0000	0.0022
106	623.36	619.36	0.0020	0.0026	0.0046
107	618.58	614.58	0.0018	0.0000	0.0018
108	618.00	614.00	0.0004	0.0099	0.0104
109	608.00	604.00	0.0000	0.0176	0.0176
110	612.70	608.70	0.0000	0.0176	0.0176
111	615.01	611.01	0.0024	0.0031	0.0055
112	619.01	615.01	0.0013	0.0018	0.0031
113	632.33	628.33	0.0024	0.0000	0.0024
114	627.31	623.31	0.0011	0.0042	0.0053
115	625.81	621.81	0.0018	0.0053	0.0071
116	622.45	618.45	0.0004	0.0075	0.0080
117	630.32	626.32	0.0000	0.0004	0.0004
118	631.79	627.79	0.0004	0.0000	0.0004
119	636.30	634.00	0.0018	0.0000	0.0018
120	639.00	635.00	0.0013	0.0000	0.0013
121	638.41	635.41	0.0004	0.0000	0.0004
122	638.00	635.00	0.0004	0.0000	0.0004
123	639.37	635.37	0.0022	0.0000	0.0022
124	637.33	634.50	0.0018	0.0000	0.0018
125	639.71	634.00	0.0009	0.0018	0.0027
126	640.00	633.00	0.0000	0.0067	0.0067
127	638.00	632.00	0.0000	0.0076	0.0076
128	638.00	631.00	0.0000	0.0090	0.0090
129	639.00	630.50	0.0049	0.0094	0.0143
130	638.52	629.50	0.0000	0.0143	0.0143
131	638.93	628.00	0.0000	0.0148	0.0148
132	631.15	627.15	0.0000	0.0148	0.0148
133	648.00	644.00	0.0000	0.0090	0.0090
134	657.27	653.27	0.0075	0.0015	0.0090
135	683.62	679.62	0.0015	0.0000	0.0015
136	688.94	684.94	0.0022	0.0000	0.0022
137	684.00	680.00	0.0020	0.0022	0.0042
138	673.70	669.70	0.0013	0.0042	0.0055
139	665.44	661.44	0.0033	0.0055	0.0088

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
140	647.95	643.95	0.0004	0.0088	0.0092
141	649.63	645.63	0.0020	0.0044	0.0064
142	655.77	651.77	0.0009	0.0035	0.0044
143	666.41	662.41	0.0020	0.0015	0.0035
144	676.16	672.16	0.0015	0.0000	0.0015
145	650.00	646.00	0.0029	0.0066	0.0095
146	654.80	650.80	0.0015	0.0051	0.0066
147	663.89	659.89	0.0020	0.0031	0.0051
148	684.50	680.50	0.0031	0.0000	0.0031
149	659.42	655.42	0.0031	0.0053	0.0084
150	682.72	678.72	0.0053	0.0000	0.0053
151	679.20	675.20	0.0044	0.0000	0.0044
152	680.00	676.00	0.0024	0.0000	0.0024
153	642.65	631.50	0.0009	1.2999	1.3008
154	667.28	663.28	0.0040	0.0073	0.0113
155	671.41	667.41	0.0000	0.0029	0.0029
156	678.17	674.17	0.0000	0.0029	0.0029
157	678.92	674.92	0.0004	0.0000	0.0004
158	642.00	630.50	0.0009	1.3048	1.3057
159	674.11	670.11	0.0040	0.0000	0.0040
160	639.27	635.27	0.0000	0.0157	0.0157
161	641.92	636.92	0.0000	0.0064	0.0064
162	644.00	634.50	1.2698	0.0095	1.2794
163	643.00	633.00	0.0009	1.2878	1.2887
164	641.74	631.00	0.0000	1.3008	1.3008
165	643.00	630.00	0.0000	1.3057	1.3057
166	641.00	629.50	0.0000	1.3057	1.3057
167	640.87	629.20	0.0004	1.3079	1.3083
168	639.51	628.50	0.0000	1.3134	1.3134
169	669.64	665.64	0.0018	0.0000	0.0018
170	657.00	653.00	0.0004	0.0018	0.0022
171	650.05	646.05	0.0004	0.0031	0.0035
172	643.48	639.48	0.0007	0.0044	0.0051
173	638.23	626.80	0.0000	1.3156	1.3156
174	657.00	645.64	0.0029	0.0000	0.0029
175	689.00	679.19	0.0029	0.0000	0.0029
176	676.00	669.00	0.0002	0.0029	0.0031
177	675.00	668.00	0.0000	0.1461	0.1461
178	675.00	666.00	0.0000	0.1461	0.1461
179	675.00	665.00	0.0013	0.1470	0.1483
180	668.00	661.00	0.0031	0.1483	0.1514
181	657.00	651.00	0.0004	0.1514	0.1518
182	656.00	650.00	0.0011	0.1558	0.1569
183	656.00	649.00	0.0002	0.1600	0.1602
184	655.00	648.00	0.0007	0.1602	0.1608
185	655.00	645.00	0.0015	0.1641	0.1657

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
186	650.00	640.10	0.0013	0.1685	0.1699
187	636.81	625.80	0.0009	0.1699	0.1707
188	634.90	625.00	0.0000	1.4863	1.4863
189	630.12	620.00	0.0000	1.6726	1.6726
190	633.16	624.00	0.0013	1.4863	1.4877
191	642.00	630.32	0.0057	0.0000	0.0057
192	639.34	635.34	0.0055	0.0000	0.0055
193	661.00	650.50	0.0128	0.0000	0.0128
194	663.00	656.00	0.0145	0.0000	0.0145
195	652.00	645.00	0.0057	0.0273	0.0330
196	660.00	653.00	0.0092	0.0000	0.0092
197	643.00	631.95	0.0009	0.0092	0.0101
198	641.00	630.48	0.0002	0.0431	0.0433
199	640.00	629.51	0.0000	0.0488	0.0488
200	640.00	629.00	0.0090	0.0488	0.0579
201	640.00	628.50	0.0009	0.0636	0.0645
202	657.86	640.44	0.0000	0.3601	0.3601
203	651.68	639.30	0.0000	0.3606	0.3606
204	635.35	627.53	0.0000	0.0521	0.0521
205	627.03	613.90	0.0000	0.0297	0.0297
206	642.00	630.70	0.0044	0.0000	0.0044
207	637.00	626.60	0.0000	0.0689	0.0689
208	692.00	681.50	0.0011	0.0123	0.0134
209	691.63	687.63	0.0009	0.0000	0.0009
210	692.87	688.87	0.0009	0.0000	0.0009
211	692.00	686.00	0.0013	0.0018	0.0031
212	688.97	680.00	0.0009	0.0165	0.0174
213	682.39	678.39	0.0007	0.0174	0.0180
214	678.00	673.10	0.0009	0.0180	0.0189
215	694.00	690.00	0.0037	0.0000	0.0037
216	684.36	672.00	0.0009	0.0227	0.0235
217	691.85	687.85	0.0044	0.0000	0.0044
218	685.00	670.90	0.0009	0.0279	0.0288
219	693.50	689.42	0.0004	0.0000	0.0004
220	692.65	688.63	0.0018	0.0004	0.0022
221	687.02	683.02	0.0007	0.0022	0.0029
222	680.80	676.80	0.0011	0.0029	0.0040
223	688.76	684.76	0.0042	0.0000	0.0042
224	681.00	669.80	0.0004	0.0330	0.0334
225	678.34	669.14	0.0002	0.0370	0.0372
226	675.00	668.49	0.0002	0.0411	0.0414
227	675.00	668.10	0.0000	0.0414	0.0414
228	667.43	663.43	0.0000	0.0414	0.0414
229	660.66	656.66	0.0000	0.0414	0.0414
230	652.07	648.07	0.0000	0.0954	0.0954
231	617.00	613.00	0.0000	0.1768	0.1768

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
232	623.02	619.02	0.0000	0.1768	0.1768
233	634.54	630.54	0.0004	0.1489	0.1494
234	642.74	633.00	0.0004	0.1485	0.1489
235	645.01	634.00	0.0013	0.1471	0.1485
236	646.60	637.50	0.0000	0.1471	0.1471
237	646.27	637.60	0.0000	0.1471	0.1471
238	649.49	645.49	0.0013	0.0504	0.0518
239	654.00	647.00	0.0004	0.0500	0.0504
240	715.79	702.58	0.0051	0.0238	0.0288
241	713.78	701.32	0.0077	0.0288	0.0365
242	707.86	697.69	0.0000	0.0528	0.0528
243	708.74	696.43	0.0064	0.0528	0.0592
244	709.51	694.41	0.0092	0.0592	0.0684
245	697.57	685.41	0.0007	0.0737	0.0744
246	702.25	695.20	0.0053	0.0000	0.0053
247	699.14	684.09	0.0009	0.0836	0.0845
248	693.35	682.77	0.0009	0.0975	0.0983
249	683.16	672.11	0.0004	0.1005	0.1010
250	668.43	660.38	0.0015	0.1043	0.1058
251	690.59	684.04	0.0033	0.0000	0.0033
252	656.00	647.39	0.0000	0.1846	0.1846
253	652.94	646.89	0.0000	0.1846	0.1846
254	628.48	619.55	0.0009	0.2191	0.2200
255	634.67	627.08	0.0040	0.0000	0.0040
256	651.29	640.84	0.0018	0.0275	0.0293
257	679.35	670.87	0.0051	0.0000	0.0051
258	659.57	648.16	0.0011	0.0213	0.0224
259	661.88	652.60	0.0024	0.0097	0.0121
260	685.49	673.84	0.0055	0.0042	0.0097
261	702.55	696.00	0.0042	0.0000	0.0042
262	684.59	677.53	0.0092	0.0000	0.0092
263	666.17	658.54	0.0033	0.0068	0.0101
264	642.59	634.66	0.0009	0.0134	0.0143
265	671.57	665.52	0.0033	0.0000	0.0033
266	638.66	628.22	0.0018	0.0211	0.0229
267	653.78	643.95	0.0020	0.0048	0.0068
268	654.48	647.43	0.0048	0.0000	0.0048
269	653.36	646.31	0.0035	0.0000	0.0035
270	626.58	617.80	0.0026	0.2350	0.2376
271	661.10	652.34	0.0103	0.0000	0.0103
272	627.49	618.69	0.0011	0.2303	0.2314
273	632.66	615.97	0.0029	0.2411	0.2440
274	646.22	640.17	0.0035	0.0000	0.0035
275	626.83	614.51	0.0009	0.2669	0.2677
276	626.86	613.48	0.0040	0.2702	0.2741
277	623.97	610.89	0.0000	0.2776	0.2776

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
278	628.22	622.17	0.0035	0.0000	0.0035
279	629.72	623.67	0.0024	0.0000	0.0024
280	624.65	606.77	0.0000	0.2776	0.2776
281	621.00	607.50	0.0000	0.0000	0.0000
282	680.94	673.59	0.0022	0.0000	0.0022
283	713.91	705.91	0.0092	0.0000	0.0092
284	709.71	699.50	0.0163	0.0000	0.0163
285	676.69	665.28	0.0000	0.0059	0.0059
286	684.35	677.74	0.0169	0.0000	0.0169
287	686.89	679.40	0.0022	0.0000	0.0022
288	681.88	675.31	0.0055	0.0000	0.0055
289	674.27	661.54	0.0000	0.0158	0.0158
290	680.15	662.79	0.0022	0.0081	0.0103
291	678.42	664.04	0.0022	0.0059	0.0081
292	657.93	647.93	0.0000	0.0500	0.0500
293	688.12	680.00	0.0051	0.0000	0.0051
294	685.74	675.28	0.0011	0.0079	0.0090
295	686.10	677.87	0.0029	0.0000	0.0029
296	686.35	674.16	0.0009	0.0106	0.0114
297	686.50	679.94	0.0015	0.0000	0.0015
298	687.19	673.27	0.0011	0.0123	0.0134
299	687.72	680.79	0.0009	0.0000	0.0009
300	683.66	672.05	0.0051	0.0167	0.0218
301	689.48	683.51	0.0033	0.0000	0.0033
302	674.98	667.28	0.0000	0.0350	0.0350
303	688.39	683.19	0.0057	0.0000	0.0057
304	690.09	684.74	0.0075	0.0000	0.0075
305	692.12	678.88	0.0000	0.2215	0.2215
306	677.34	663.81	0.0035	0.2341	0.2376
307	673.34	665.85	0.0079	0.0139	0.0218
308	685.55	677.81	0.0048	0.0000	0.0048
309	683.15	668.86	0.0090	0.0000	0.0090
310	672.84	665.47	0.0022	0.0000	0.0022
311	673.46	666.46	0.0139	0.0000	0.0139
312	652.00	645.00	0.0090	0.0000	0.0090
313	655.00	649.00	0.0000	0.0540	0.0540
314	660.00	656.00	0.0000	0.0405	0.0405
315	665.00	658.50	0.0000	0.0270	0.0270
316	671.00	664.00	0.0135	0.0000	0.0135
317	677.00	670.00	0.0135	0.0000	0.0135
318	670.00	663.00	0.0135	0.0000	0.0135
319	673.00	667.00	0.0135	0.0000	0.0135
320	659.72	648.58	0.0018	0.2941	0.2959
321	652.90	639.66	0.0000	0.3601	0.3601
322	661.52	651.66	0.0000	0.0350	0.0350
323	642.14	619.50	0.0000	0.5157	0.5157

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
324	644.75	634.24	0.0121	0.0187	0.0308
325	669.84	662.79	0.0068	0.0000	0.0068
326	631.39	620.64	0.0013	0.0293	0.0306
327	667.06	660.05	0.0000	0.0788	0.0788
328	687.80	678.10	0.0020	0.0132	0.0152
329	703.09	695.12	0.0046	0.0086	0.0132
330	707.36	699.70	0.0040	0.0046	0.0086
331	712.25	705.20	0.0020	0.0026	0.0046
332	716.88	709.51	0.0026	0.0000	0.0026
333	715.72	708.81	0.0130	0.0000	0.0130
334	665.00	656.25	0.0000	0.0788	0.0788
335	663.00	657.00	0.0000	0.0788	0.0788
336	697.70	677.25	0.0000	0.0636	0.0636
337	714.42	706.45	0.0238	0.0000	0.0238
338	701.95	693.00	0.0055	0.0000	0.0055
339	698.12	683.00	0.0000	0.1036	0.1036
340	699.36	688.00	0.0000	0.0981	0.0981
341	692.05	679.33	0.0000	0.2215	0.2215
342	679.00	658.95	0.0150	0.0000	0.0150
343	676.08	670.00	0.0059	0.0000	0.0059
344	676.08	670.00	0.0055	0.0000	0.0055
345	635.35	614.98	0.0000	0.5678	0.5678
346	700.78	689.42	0.0000	0.0981	0.0981
347	710.14	698.78	0.0084	0.0000	0.0084
348	704.15	692.79	0.0024	0.0873	0.0898
349	709.01	697.65	0.0020	0.0163	0.0183
350	713.82	702.37	0.0000	0.0092	0.0092
351	719.97	708.52	0.0092	0.0000	0.0092
352	717.53	706.17	0.0070	0.0000	0.0070
353	710.67	694.00	0.0051	0.0640	0.0691
354	666.25	650.64	0.0015	0.2726	0.2741
355	675.60	665.60	0.0112	0.0000	0.0112
356	674.28	667.08	0.0200	0.0000	0.0200
357	676.69	669.69	0.0139	0.0000	0.0139
358	656.32	641.44	0.0018	0.3098	0.3115
359	660.14	651.40	0.0033	0.0453	0.0486
360	672.00	665.00	0.0057	0.0000	0.0057
361	685.85	675.46	0.0070	0.2248	0.2319
362	693.00	677.92	0.0033	0.2215	0.2248
363	722.00	715.00	0.0053	0.0000	0.0053
364	719.00	712.00	0.0042	0.0150	0.0191
365	721.00	714.00	0.0095	0.0055	0.0150
366	722.00	715.00	0.0007	0.0048	0.0055
367	733.00	726.00	0.0048	0.0000	0.0048
368	707.00	700.00	0.0022	0.0110	0.0132
369	725.00	718.00	0.0046	0.0000	0.0046

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
370	720.00	713.00	0.0064	0.0000	0.0064
371	713.00	700.00	0.0035	0.0224	0.0260
372	725.00	711.50	0.0009	0.0088	0.0097
373	733.00	723.00	0.0057	0.0000	0.0057
374	720.00	713.00	0.0031	0.0000	0.0031
375	735.00	728.00	0.0110	0.0000	0.0110
376	707.53	696.53	0.0000	0.0433	0.0433
377	713.51	706.51	0.0000	0.0134	0.0134
378	720.85	713.85	0.0051	0.0020	0.0070
379	721.15	714.15	0.0064	0.0000	0.0064
380	726.51	719.51	0.0020	0.0000	0.0020
381	710.66	694.75	0.0000	0.0640	0.0640
382	713.18	703.00	0.0000	0.0101	0.0101
383	726.54	719.54	0.0075	0.0000	0.0075
384	726.84	719.84	0.0073	0.0000	0.0073
385	700.22	685.81	0.0000	0.1179	0.1179
386	699.66	687.25	0.0000	0.1179	0.1179
387	698.53	688.61	0.0000	0.1179	0.1179
388	703.57	693.02	0.0000	0.1179	0.1179
389	716.39	710.00	0.0077	0.0000	0.0077
390	699.69	692.34	0.0000	0.1179	0.1179
391	704.97	695.51	0.0068	0.1034	0.1102
392	706.84	696.28	0.0000	0.1034	0.1034
393	708.51	696.97	0.0000	0.0986	0.0986
394	711.52	697.75	0.0000	0.0937	0.0937
395	718.37	700.29	0.0000	0.0365	0.0365
396	714.19	702.14	0.0029	0.0163	0.0191
397	715.00	702.95	0.0000	0.0163	0.0163
398	741.00	731.00	0.0059	0.0000	0.0059
399	716.82	707.85	0.0000	0.0174	0.0174
400	718.39	709.00	0.0174	0.0000	0.0174
401	730.00	723.00	0.0000	0.0546	0.0546
402	748.00	741.00	0.0117	0.0095	0.0211
403	751.00	744.00	0.0000	0.0095	0.0095
404	762.00	755.00	0.0048	0.0000	0.0048
405	760.00	753.00	0.0046	0.0000	0.0046
406	739.00	732.00	0.0070	0.0264	0.0334
407	744.00	736.00	0.0114	0.0150	0.0264
408	744.00	737.00	0.0000	0.0150	0.0150
409	764.00	757.00	0.0086	0.0000	0.0086
410	762.00	755.00	0.0064	0.0000	0.0064
411	748.00	740.00	0.0103	0.0000	0.0103
412	650.00	638.43	0.0000	0.0954	0.0954
413	715.92	711.00	0.0026	0.0000	0.0026
414	712.20	705.00	0.0048	0.0000	0.0048
415	709.79	702.50	0.0048	0.0000	0.0048

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
416	722.47	715.47	0.0092	0.0000	0.0092
417	719.02	712.02	0.0084	0.0000	0.0084
418	717.45	708.77	0.0033	0.0073	0.0106
419	720.47	707.83	0.0026	0.0075	0.0101
420	716.20	703.53	0.0048	0.0134	0.0183
421	710.00	703.00	0.0018	0.0110	0.0128
422	647.57	639.60	0.0004	0.0000	0.0004
423	650.00	643.00	0.0270	0.0000	0.0270
424	629.82	625.81	0.0004	0.1764	0.1768
425	625.31	609.57	0.0000	0.5975	0.5975
426	621.61	606.67	0.0000	0.6664	0.6664
427	619.19	605.83	0.0000	0.6664	0.6664
428	617.08	604.98	0.0000	0.6664	0.6664
429	617.43	604.14	0.0000	0.6664	0.6664
430	614.23	603.75	0.0000	0.8432	0.8432
431	613.00	603.57	0.0000	0.8432	0.8432
432	611.00	603.16	0.0000	0.8432	0.8432
433	611.23	602.41	0.0000	0.8432	0.8432
434	704.25	688.76	0.0000	0.0000	0.0000
435	657.20	635.85	0.0000	0.1551	0.1551
436	649.22	628.55	0.0000	0.1551	0.1551
437	642.58	627.00	0.0000	0.1551	0.1551
438	688.44	670.33	0.0000	0.1551	0.1551
439	696.60	682.54	0.0000	0.1551	0.1551
440	698.97	686.12	0.1551	0.0000	0.1551
441	691.08	675.45	0.0000	0.1551	0.1551
460	682.86	664.17	0.0000	0.1551	0.1551
473	642.54	626.31	0.0000	0.1551	0.1551
474	651.00	627.00	0.0000	0.0000	0.0000
477	662.59	648.99	0.0000	0.0150	0.0150
488	621.06	600.07	0.0000	0.0000	0.0000
489	668.34	664.34	0.0000	0.0000	0.0000
491	620.67	607.00	0.0000	0.0000	0.0000
492	612.00	604.00	0.0000	0.0000	0.0000
493	617.21	603.50	0.0000	0.0000	0.0000
494	621.75	602.00	0.0000	0.0000	0.0000
495	615.51	603.00	0.0000	0.0000	0.0000
496	729.11	722.11	0.0000	0.0000	0.0000
497	655.41	644.22	0.0000	0.0000	0.0000
498	660.78	650.78	0.0000	0.0000	0.0000
499	656.22	645.50	0.0000	0.0000	0.0000

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-1	240	702.58	241	701.32	291.4	0.004	8.0	0.013	1.23	0.0288	17.1
CO-2	241	701.32	242	697.69	852.2	0.004	8.0	0.013	1.31	0.0365	19.9
CO-3	242	697.69	243	696.43	290.7	0.004	8.0	0.013	1.47	0.0528	21.8
CO-4	243	696.43	244	694.41	398.9	0.005	8.0	0.013	1.60	0.0592	22.1
CO-5	239	647.00	238	645.49	401.5	0.004	10.0	0.013	1.34	0.0504	15.4
CO-6	244	694.41	245	685.41	1,382.5	0.007	8.0	0.013	1.83	0.0684	23.2
CO-7	238	645.49	237	637.60	411.9	0.019	10.0	0.013	2.39	0.0518	19.0
CO-8	245	685.41	246	695.20	1,204.2	0.008	8.0	0.013	0.91	0.0053	15.2
CO-9	237	637.60	236	637.50	8.5	0.012	12.0	0.013	2.69	0.1471	18.0
CO-10	245	685.41	247	684.09	317.3	0.004	10.0	0.013	1.56	0.0744	19.9
CO-11	236	637.50	235	634.00	466.8	0.007	12.0	0.013	2.30	0.1471	21.0
CO-12	247	684.09	248	682.77	308.0	0.004	10.0	0.013	1.64	0.0845	20.3
CO-13	235	634.00	234	633.00	295.1	0.003	12.0	0.013	1.74	0.1485	21.1
CO-14	248	682.77	249	672.11	314.3	0.034	10.0	0.013	3.55	0.0983	20.3
CO-15	234	633.00	233	630.54	378.4	0.007	12.0	0.013	2.19	0.1489	19.7
CO-16	249	672.11	250	660.38	321.6	0.036	10.0	0.013	3.67	0.1010	20.6
CO-17	250	660.38	251	684.04	730.2	0.032	8.0	0.013	1.28	0.0033	15.4
CO-18	233	630.54	424	625.81	140.6	0.034	12.0	0.013	3.91	0.1494	20.6
CO-19	424	625.81	232	619.02	202.2	0.034	12.0	0.013	4.12	0.1768	17.7
CO-20	232	619.02	231	613.00	312.8	0.019	12.0	0.013	3.38	0.1768	18.7
CO-21	250	660.38	252	647.39	332.3	0.039	10.0	0.013	3.81	0.1058	26.8
CO-22	231	613.00	430	605.89	258.6	0.027	12.0	0.013	3.83	0.1768	18.1
CO-23	252	647.39	253	646.89	158.8	0.003	10.0	0.013	1.84	0.1846	30.3
CO-24	253	646.89	254	619.55	3,440.3	0.008	10.0	0.013	2.56	0.1846	31.0
CO-25	230	648.07	412	638.43	266.7	0.036	10.0	0.013	3.59	0.0954	22.1
CO-26	412	638.43	237	637.60	309.3	0.003	10.0	0.013	1.44	0.0954	23.9
CO-27	229	656.66	230	648.07	315.5	0.027	10.0	0.013	2.52	0.0414	16.4
CO-28	255	627.08	254	619.55	590.6	0.013	8.0	0.013	0.98	0.0040	24.0
CO-29	228	663.43	229	656.66	460.3	0.015	10.0	0.013	2.04	0.0414	11.8
CO-30	256	640.84	326	620.64	295.6	0.068	8.0	0.013	3.25	0.0293	15.5

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CO-31	227	668.10	228	663.43	339.0	0.014	10.0	0.013	1.99	0.0414	11.9
CO-32	257	670.87	256	640.84	980.6	0.031	8.0	0.013	1.44	0.0051	10.2
CO-33	226	668.49	227	668.10	100.5	0.004	10.0	0.013	1.28	0.0414	13.8
CO-34	258	648.16	256	640.84	303.2	0.024	8.0	0.013	2.08	0.0224	13.5
CO-35	225	669.14	226	668.49	136.6	0.005	8.0	0.013	1.37	0.0372	18.1
CO-36	259	652.60	258	648.16	309.8	0.014	8.0	0.013	1.45	0.0121	10.9
CO-37	224	669.80	225	669.14	134.9	0.005	8.0	0.013	1.34	0.0334	17.3
CO-38	260	673.84	259	652.60	1,053.0	0.020	8.0	0.013	1.50	0.0097	8.7
CO-39	223	684.76	224	669.80	689.2	0.022	6.0	0.013	1.25	0.0042	15.0
CO-40	260	673.84	261	696.00	818.6	0.027	8.0	0.013	1.32	0.0042	6.8
CO-41	262	677.53	258	648.16	1,100.3	0.027	8.0	0.013	1.64	0.0092	10.3
CO-42	222	676.80	226	668.49	423.1	0.020	8.0	0.013	1.15	0.0040	11.8
CO-43	263	658.54	264	634.66	516.9	0.046	8.0	0.013	2.04	0.0101	9.2
CO-44	221	683.02	222	676.80	213.6	0.029	8.0	0.013	1.18	0.0029	4.8
CO-45	265	665.52	264	634.66	750.4	0.041	8.0	0.013	1.41	0.0033	7.4
CO-46	220	688.63	221	683.02	487.0	0.012	8.0	0.013	0.79	0.0022	4.2
CO-47	266	628.22	264	634.66	293.0	0.022	8.0	0.013	1.74	0.0143	11.4
CO-48	219	689.42	220	688.63	193.8	0.004	6.0	0.013	0.36	0.0004	4.2
CO-49	267	643.95	266	628.22	481.0	0.033	8.0	0.013	1.61	0.0068	9.8
CO-50	218	670.90	224	669.80	266.6	0.004	8.0	0.013	1.21	0.0288	16.5
CO-51	268	647.43	267	643.95	694.3	0.005	8.0	0.013	0.75	0.0048	6.8
CO-52	217	687.85	218	670.90	698.4	0.024	6.0	0.013	1.32	0.0044	14.8
CO-53	269	646.31	270	617.80	581.9	0.049	8.0	0.013	1.53	0.0035	24.1
CO-54	272	618.69	271	652.34	1,548.7	0.022	8.0	0.013	1.58	0.0103	26.3
CO-55	216	672.00	218	670.90	232.2	0.005	8.0	0.013	1.20	0.0235	15.3
CO-56	254	619.55	272	618.69	296.6	0.003	12.0	0.013	1.85	0.2200	28.9
CO-57	215	690.00	216	672.00	860.3	0.021	8.0	0.013	1.16	0.0037	9.7
CO-58	272	618.69	270	617.80	309.2	0.003	12.0	0.013	1.87	0.2314	29.1
CO-59	270	617.80	273	615.97	565.7	0.003	12.0	0.013	1.96	0.2376	29.3
CO-60	214	673.10	216	672.00	245.5	0.004	8.0	0.013	1.10	0.0189	13.6

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CO-61	274	640.17	273	615.97	796.6	0.030	8.0	0.013	1.28	0.0035	24.8
CO-62	213	678.39	214	673.10	185.1	0.029	8.0	0.013	2.07	0.0180	12.1
CO-63	273	615.97	275	614.51	486.5	0.003	12.0	0.013	1.92	0.2440	29.9
CO-64	212	680.00	213	678.39	304.2	0.005	8.0	0.013	1.14	0.0174	11.6
CO-65	266	628.22	275	614.51	553.2	0.025	8.0	0.013	2.12	0.0229	28.9
CO-66	211	686.00	212	680.00	267.7	0.022	8.0	0.013	1.11	0.0031	8.3
CO-67	275	614.51	276	613.48	291.9	0.004	12.0	0.013	2.09	0.2677	30.0
CO-68	210	688.87	211	686.00	157.2	0.018	6.0	0.013	0.75	0.0009	4.9
CO-69	276	613.48	277	610.89	710.4	0.004	12.0	0.013	2.13	0.2741	28.6
CO-70	209	687.63	211	686.00	83.5	0.020	8.0	0.013	0.74	0.0009	3.6
CO-71	278	622.17	277	610.89	673.5	0.017	8.0	0.013	1.05	0.0035	22.8
CO-72	208	681.50	212	680.00	253.8	0.006	8.0	0.013	1.09	0.0134	11.2
CO-73	279	623.67	276	613.48	406.8	0.025	8.0	0.013	1.09	0.0024	24.6
CO-74	277	610.89	280	606.77	365.3	0.011	12.0	0.013	3.20	0.2776	27.8
CO-77	282	673.59	249	672.11	326.8	0.005	8.0	0.013	0.57	0.0022	15.1
CO-78	283	705.91	247	684.09	1,330.0	0.016	8.0	0.013	1.38	0.0092	16.8
CO-81	207	626.60	426	612.04	307.7	0.047	8.0	0.013	3.68	0.0689	18.0
CO-82	284	699.50	242	697.69	287.2	0.006	8.0	0.013	1.18	0.0163	16.4
CO-83	206	630.70	207	626.60	911.8	0.004	8.0	0.013	0.70	0.0044	14.4
CO-85	345	614.98	425	609.57	1,421.9	0.004	30.0	0.013	2.41	0.5678	12.6
CO-86	289	661.54	17	660.12	285.9	0.005	8.0	0.013	1.08	0.0158	14.2
CO-87	204	627.53	345	626.00	36.4	0.042	8.0	0.013	3.26	0.0521	15.8
CO-88	286	677.74	17	660.12	2,621.1	0.007	8.0	0.013	1.22	0.0169	14.0
CO-89	202	640.44	321	639.66	250.2	0.003	15.0	0.013	2.13	0.3601	26.3
CO-90	201	628.50	207	626.60	240.3	0.008	8.0	0.013	1.93	0.0645	21.9
CO-91	285	665.28	287	679.40	594.4	0.024	8.0	0.013	1.01	0.0022	5.8
CO-92	200	629.00	201	628.50	107.3	0.005	8.0	0.013	1.55	0.0579	21.9
CO-93	288	675.31	289	661.54	1,167.4	0.012	8.0	0.013	1.05	0.0055	8.9
CO-94	199	629.51	200	629.00	270.2	0.002	8.0	0.013	1.07	0.0488	23.9
CO-95	289	661.54	290	662.79	297.0	0.004	8.0	0.013	0.89	0.0103	10.8

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CO-96	198	630.48	199	629.51	271.9	0.004	8.0	0.013	1.29	0.0433	23.1
CO-97	197	631.95	198	630.48	272.7	0.005	8.0	0.013	0.97	0.0101	14.9
CO-98	285	665.28	291	664.04	295.7	0.004	8.0	0.013	0.75	0.0059	8.2
CO-99	196	653.00	197	631.95	1,538.4	0.014	8.0	0.013	1.30	0.0092	8.7
CO-100	291	664.04	290	662.79	284.2	0.004	8.0	0.013	0.85	0.0081	9.3
CO-101	292	647.93	239	647.00	246.9	0.004	10.0	0.013	1.34	0.0500	16.3
CO-102	293	680.00	294	675.28	929.8	0.005	8.0	0.013	0.76	0.0051	8.1
CO-103	295	677.87	294	675.28	357.4	0.007	8.0	0.013	0.73	0.0029	7.1
CO-104	294	675.28	296	674.16	282.6	0.004	8.0	0.013	0.84	0.0090	9.6
CO-105	297	679.94	296	679.00	235.5	0.004	8.0	0.013	0.49	0.0015	3.7
CO-106	195	645.00	198	630.48	884.8	0.016	8.0	0.013	2.04	0.0330	18.0
CO-107	296	674.16	298	673.27	174.1	0.005	8.0	0.013	0.99	0.0114	10.5
CO-108	299	680.79	298	680.00	199.7	0.004	8.0	0.013	0.41	0.0009	2.8
CO-109	194	656.00	195	645.00	692.6	0.016	8.0	0.013	1.58	0.0145	12.7
CO-110	298	673.27	300	672.05	278.6	0.004	8.0	0.013	0.98	0.0134	11.9
CO-111	193	650.50	195	645.00	914.5	0.006	8.0	0.013	1.08	0.0128	12.7
CO-112	301	683.51	300	672.05	815.0	0.014	8.0	0.013	0.97	0.0033	8.8
CO-113	300	672.05	302	667.28	751.5	0.006	8.0	0.013	1.29	0.0218	14.3
CO-114	302	667.28	303	683.19	672.1	0.024	8.0	0.013	1.36	0.0057	11.1
CO-115	192	635.34	199	629.51	829.0	0.007	8.0	0.013	0.88	0.0055	16.1
CO-116	302	667.28	304	684.74	1,027.1	0.017	8.0	0.013	1.31	0.0075	11.5
CO-117	302	667.28	322	651.66	966.7	0.016	8.0	0.013	2.07	0.0350	14.3
CO-118	191	630.32	201	628.50	230.8	0.008	8.0	0.013	0.93	0.0057	14.0
CO-119	305	678.88	362	677.92	177.8	0.005	12.0	0.013	2.31	0.2215	24.6
CO-120	361	675.46	306	663.81	1,437.1	0.008	12.0	0.013	2.70	0.2319	24.9
CO-121	190	624.00	189	620.00	256.5	0.016	18.0	0.013	5.59	1.4877	39.4
CO-122	306	663.81	15	656.95	666.8	0.010	12.0	0.013	2.96	0.2376	25.7
CO-123	307	665.85	15	656.95	1,427.9	0.006	8.0	0.013	1.29	0.0218	26.1
CO-124	308	677.81	307	665.85	849.6	0.014	8.0	0.013	1.08	0.0048	9.3
CO-125	188	625.00	190	624.00	149.2	0.007	18.0	0.013	4.12	1.4863	38.2

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CO-126	309	668.86	307	665.85	582.4	0.005	8.0	0.013	0.92	0.0090	10.8
CO-127	187	625.80	188	625.00	137.1	0.006	8.0	0.013	2.28	0.1707	61.3
CO-128	186	640.10	187	625.80	303.8	0.047	8.0	0.013	4.81	0.1699	36.1
CO-129	185	645.00	186	640.10	598.4	0.008	8.0	0.013	2.56	0.1657	35.3
CO-130	310	665.47	306	663.81	543.5	0.003	8.0	0.013	0.50	0.0022	21.4
CO-131	184	648.00	185	645.00	217.1	0.014	8.0	0.013	3.06	0.1608	34.8
CO-132	183	649.00	184	648.00	189.0	0.005	8.0	0.013	2.16	0.1602	35.4
CO-133	182	650.00	183	649.00	389.0	0.003	8.0	0.013	1.65	0.1569	40.0
CO-134	311	666.46	41	639.00	1,530.1	0.018	8.0	0.013	1.63	0.0139	10.9
CO-135	181	651.00	182	650.00	287.4	0.003	8.0	0.013	1.83	0.1518	41.6
CO-136	180	661.00	181	651.00	687.9	0.015	8.0	0.013	3.06	0.1514	36.5
CO-137	179	665.00	180	661.00	388.6	0.010	8.0	0.013	2.69	0.1483	33.3
CO-138	178	666.00	179	665.00	38.0	0.026	8.0	0.013	3.74	0.1461	33.0
CO-139	177	668.00	178	666.00	336.3	0.006	8.0	0.013	2.20	0.1461	33.2
CO-140	176	669.00	177	668.00	368.4	0.003	8.0	0.013	0.53	0.0031	19.9
CO-141	230	648.07	313	649.00	21.7	0.043	8.0	0.013	3.32	0.0540	22.2
CO-142	314	656.00	313	649.00	339.8	0.021	8.0	0.013	2.35	0.0405	18.4
CO-143	315	658.50	314	656.00	143.4	0.017	8.0	0.013	1.96	0.0270	15.4
CO-144	175	679.19	176	669.00	814.3	0.013	8.0	0.013	0.90	0.0029	5.3
CO-145	316	664.00	315	658.50	272.6	0.020	8.0	0.013	1.67	0.0135	11.8
CO-146	174	645.64	186	640.10	667.4	0.008	6.0	0.013	0.79	0.0029	27.0
CO-147	317	670.00	315	658.50	404.5	0.028	8.0	0.013	1.88	0.0135	11.8
CO-148	173	626.80	188	625.00	365.3	0.005	12.0	0.013	3.55	1.3156	64.7
CO-149	318	663.00	314	656.00	396.1	0.018	8.0	0.013	1.61	0.0135	13.4
CO-150	168	628.50	173	626.80	459.3	0.004	12.0	0.013	3.14	1.3134	72.7
CO-151	313	649.00	319	667.00	517.4	0.035	8.0	0.013	2.01	0.0135	14.7
CO-152	172	639.48	168	628.50	391.1	0.028	6.0	0.013	1.45	0.0051	54.3
CO-154	171	646.05	172	639.48	354.8	0.019	6.0	0.013	1.12	0.0035	7.9
CO-155	354	650.64	320	648.58	322.7	0.006	12.0	0.013	2.60	0.2741	27.5
CO-156	15	656.95	354	650.64	360.7	0.017	12.0	0.013	3.67	0.2614	26.6

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CO-157	170	653.00	171	646.05	238.8	0.029	6.0	0.013	1.15	0.0022	6.4
CO-158	321	639.66	203	639.30	105.3	0.003	15.0	0.013	2.20	0.3601	24.6
CO-159	169	665.64	170	653.00	652.8	0.019	6.0	0.013	0.93	0.0018	5.3
CO-160	292	647.93	322	651.66	394.9	0.009	10.0	0.013	1.66	0.0350	14.1
CO-161	203	639.30	323	630.00	377.8	0.025	15.0	0.013	4.43	0.3606	19.6
CO-162	167	629.20	168	628.50	367.2	0.002	12.0	0.013	2.58	1.3083	88.4
CO-163	323	619.50	345	614.98	1,296.4	0.003	30.0	0.013	2.27	0.5157	12.6
CO-164	166	629.50	167	629.20	167.0	0.002	12.0	0.013	2.57	1.3057	100.0
CO-165	43	630.25	324	634.24	897.8	0.004	8.0	0.013	1.26	0.0308	18.7
CO-166	165	630.00	166	629.50	153.0	0.003	12.0	0.013	2.57	1.3057	100.0
CO-167	55	665.37	45	651.86	315.9	0.043	8.0	0.013	1.69	0.0057	9.3
CO-168	46	659.46	324	634.24	889.1	0.028	8.0	0.013	2.09	0.0187	14.0
CO-169	325	662.79	263	658.54	1,005.0	0.004	8.0	0.013	0.79	0.0068	8.3
CO-170	162	634.50	163	633.00	334.4	0.004	12.0	0.013	3.40	1.2794	88.5
CO-171	326	620.64	254	619.55	251.9	0.004	8.0	0.013	1.25	0.0306	29.6
CO-172	252	647.39	334	656.25	262.4	0.034	8.0	0.013	3.41	0.0788	32.4
CO-173	161	636.92	160	635.27	354.0	0.005	8.0	0.013	0.80	0.0064	9.1
CO-174	327	660.05	328	678.10	417.1	0.043	8.0	0.013	2.25	0.0152	17.1
CO-175	158	630.50	165	630.00	200.7	0.002	12.0	0.013	2.57	1.3057	100.0
CO-176	328	678.10	329	695.12	949.3	0.018	8.0	0.013	1.61	0.0132	10.0
CO-177	164	631.00	158	630.50	187.5	0.003	12.0	0.013	2.56	1.3008	100.0
CO-178	329	695.12	330	699.70	756.9	0.006	8.0	0.013	0.96	0.0086	9.0
CO-179	159	670.11	158	630.50	1,038.3	0.038	8.0	0.013	1.44	0.0040	52.6
CO-180	330	699.70	331	705.20	374.2	0.015	8.0	0.013	1.08	0.0046	7.0
CO-181	157	674.92	156	674.17	193.2	0.004	6.0	0.013	0.35	0.0004	4.8
CO-182	331	705.20	332	709.51	705.8	0.006	8.0	0.013	0.67	0.0026	5.2
CO-183	156	674.17	155	667.41	335.7	0.020	6.0	0.013	1.09	0.0029	5.9
CO-184	333	708.81	248	682.77	2,225.1	0.012	8.0	0.013	1.37	0.0130	17.4
CO-185	155	667.41	154	663.28	201.3	0.021	6.0	0.013	1.09	0.0029	9.1
CO-186	335	657.00	334	656.25	142.1	0.005	8.0	0.013	1.77	0.0788	24.5

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CO-187	153	631.50	164	631.00	162.2	0.003	12.0	0.013	2.56	1.3008	100.0
CO-188	335	657.00	327	660.05	174.6	0.017	8.0	0.013	2.70	0.0788	24.5
CO-189	163	633.00	153	631.50	333.0	0.005	12.0	0.013	2.54	1.2887	100.0
CO-190	336	677.25	327	660.05	2,121.0	0.008	8.0	0.013	1.94	0.0636	22.6
CO-191	154	663.28	153	631.50	943.1	0.034	8.0	0.013	1.88	0.0113	54.4
CO-192	152	676.00	156	674.17	322.2	0.006	6.0	0.013	0.66	0.0024	6.6
CO-193	338	693.00	339	683.00	782.3	0.013	8.0	0.013	1.08	0.0055	16.8
CO-194	151	675.20	154	663.28	1,070.0	0.011	8.0	0.013	0.97	0.0044	7.2
CO-195	339	683.00	340	688.00	493.5	0.010	8.0	0.013	2.38	0.0981	27.1
CO-196	150	678.72	149	655.42	1,104.9	0.021	6.0	0.013	1.33	0.0053	9.9
CO-197	339	683.00	341	679.33	137.1	0.027	8.0	0.013	3.40	0.1036	34.6
CO-198	149	655.42	163	633.00	909.9	0.025	6.0	0.013	1.62	0.0084	55.5
CO-199	341	679.33	305	678.88	140.1	0.003	12.0	0.013	1.92	0.2215	26.1
CO-200	22	651.05	342	658.95	617.7	0.013	8.0	0.013	1.48	0.0150	11.3
CO-201	41	639.00	39	622.00	438.3	0.039	8.0	0.013	2.39	0.0202	13.2
CO-202	148	680.50	147	659.89	736.3	0.028	6.0	0.013	1.25	0.0031	7.6
CO-203	147	659.89	146	650.80	495.2	0.018	6.0	0.013	1.25	0.0051	9.2
CO-204	146	650.80	145	646.00	329.3	0.015	6.0	0.013	1.26	0.0066	10.8
CO-205	145	646.00	162	634.50	453.5	0.025	6.0	0.013	1.70	0.0095	55.9
CO-206	346	689.42	340	688.00	142.3	0.010	8.0	0.013	2.37	0.0981	25.3
CO-207	347	698.78	346	689.42	937.7	0.010	8.0	0.013	1.13	0.0084	17.2
CO-208	144	672.16	143	662.41	374.8	0.026	6.0	0.013	0.98	0.0015	5.9
CO-209	348	692.79	346	689.42	337.1	0.010	8.0	0.013	2.30	0.0898	26.2
CO-210	143	662.41	142	651.77	460.6	0.023	6.0	0.013	1.21	0.0035	7.6
CO-211	349	697.65	348	692.79	485.6	0.010	8.0	0.013	1.44	0.0183	18.4
CO-212	142	651.77	141	645.63	435.8	0.014	6.0	0.013	1.09	0.0044	8.8
CO-213	350	702.37	349	697.65	472.0	0.010	8.0	0.013	1.16	0.0092	9.7
CO-214	141	645.63	161	636.92	486.9	0.018	6.0	0.013	1.34	0.0064	9.9
CO-215	351	708.52	350	702.37	615.0	0.010	8.0	0.013	1.16	0.0092	7.9
CO-216	140	643.95	160	635.27	617.3	0.014	6.0	0.013	1.37	0.0092	12.8

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CO-217	352	706.17	349	697.65	867.6	0.010	8.0	0.013	1.06	0.0070	9.2
CO-218	139	661.44	140	643.95	789.8	0.022	6.0	0.013	1.58	0.0088	11.4
CO-219	138	669.70	139	661.44	345.6	0.024	6.0	0.013	1.40	0.0055	10.1
CO-220	137	680.00	138	669.70	508.1	0.020	6.0	0.013	1.22	0.0042	8.3
CO-221	353	694.00	348	692.79	652.5	0.002	8.0	0.013	1.17	0.0691	28.2
CO-222	136	684.94	137	680.00	379.1	0.013	6.0	0.013	0.86	0.0022	6.7
CO-223	355	665.60	354	650.64	1,778.9	0.008	8.0	0.013	1.17	0.0112	24.6
CO-224	135	679.62	134	653.27	1,335.1	0.020	6.0	0.013	0.88	0.0015	8.1
CO-225	134	653.27	133	644.00	562.7	0.016	6.0	0.013	1.43	0.0090	10.6
CO-226	133	644.00	12th Street LS (Downtown)	622.00	549.6	0.040	6.0	0.013	1.98	0.0090	9.6
CO-227	356	667.08	320	648.58	2,402.2	0.008	8.0	0.013	1.35	0.0200	27.0
CO-228	132	627.15	12th Street LS (Downtown)	622.00	244.8	0.021	6.0	0.013	1.82	0.0148	13.1
CO-229	357	669.69	358	641.44	1,728.6	0.016	8.0	0.013	1.58	0.0139	30.6
CO-230	131	628.00	132	627.15	405.8	0.002	6.0	0.013	0.81	0.0148	17.4
CO-231	130	629.50	131	628.00	197.5	0.008	8.0	0.013	1.21	0.0143	12.6
CO-232	129	630.50	130	629.50	383.8	0.003	8.0	0.013	0.84	0.0143	11.5
CO-233	128	631.00	129	630.50	153.7	0.003	8.0	0.013	0.78	0.0090	11.4
CO-234	360	665.00	359	651.40	1,183.8	0.011	8.0	0.013	1.06	0.0057	12.5
CO-235	127	632.00	128	631.00	351.8	0.003	8.0	0.013	0.71	0.0076	9.6
CO-236	362	677.92	361	675.46	471.7	0.005	12.0	0.013	2.29	0.2248	24.8
CO-237	126	633.00	127	632.00	344.4	0.003	8.0	0.013	0.69	0.0067	9.1
CO-238	5	689.00	363	715.00	673.2	0.039	8.0	0.013	1.59	0.0053	14.3
CO-239	125	634.00	126	633.00	179.5	0.006	8.0	0.013	0.66	0.0027	6.9
CO-240	364	712.00	2	688.00	890.5	0.027	8.0	0.013	2.06	0.0191	16.5
CO-241	124	634.50	125	634.00	212.1	0.002	8.0	0.013	0.43	0.0018	4.9

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CO-242	365	714.00	364	712.00	276.5	0.007	8.0	0.013	1.21	0.0150	11.0
CO-243	123	635.37	126	633.00	321.6	0.007	8.0	0.013	0.69	0.0022	6.5
CO-244	366	715.00	365	714.00	306.0	0.003	8.0	0.013	0.67	0.0055	9.1
CO-245	122	635.00	127	632.00	178.5	0.017	8.0	0.013	0.57	0.0004	5.6
CO-246	367	726.00	366	715.00	807.7	0.014	8.0	0.013	1.07	0.0048	6.8
CO-247	121	635.41	127	632.00	173.3	0.020	8.0	0.013	0.60	0.0004	5.6
CO-248	368	700.00	7	694.00	460.6	0.013	8.0	0.013	1.43	0.0132	15.1
CO-249	120	635.00	128	631.00	150.1	0.027	8.0	0.013	0.92	0.0013	6.4
CO-250	369	718.00	368	700.00	841.0	0.021	8.0	0.013	1.23	0.0046	7.7
CO-251	119	634.00	126	633.00	500.8	0.002	8.0	0.013	0.41	0.0018	7.0
CO-252	370	713.00	368	700.00	1,071.5	0.012	8.0	0.013	1.11	0.0064	8.2
CO-253	118	627.79	117	626.32	289.7	0.005	8.0	0.013	0.36	0.0004	2.1
CO-254	371	700.00	7	694.00	1,023.4	0.006	8.0	0.013	1.33	0.0260	17.4
CO-255	117	626.32	116	618.45	198.6	0.040	6.0	0.013	0.79	0.0004	6.6
CO-256	372	711.50	371	700.00	310.2	0.037	8.0	0.013	1.86	0.0097	11.2
CO-257	115	621.81	116	618.45	445.2	0.008	6.0	0.013	1.02	0.0071	10.5
CO-258	373	723.00	372	711.50	1,099.7	0.010	8.0	0.013	1.02	0.0057	7.3
CO-259	114	623.31	115	621.81	233.6	0.006	6.0	0.013	0.88	0.0053	9.9
CO-260	374	713.00	372	711.50	582.4	0.003	8.0	0.013	0.52	0.0031	7.3
CO-261	113	628.33	114	623.31	342.6	0.015	6.0	0.013	0.92	0.0024	7.6
CO-262	421	703.00	371	700.00	712.0	0.004	8.0	0.013	0.95	0.0128	12.6
CO-263	375	728.00	421	703.00	1,201.3	0.021	8.0	0.013	1.58	0.0110	9.9
CO-264	1	698.09	376	696.53	355.3	0.004	8.0	0.013	1.18	0.0251	16.9
CO-265	112	615.01	111	611.01	237.9	0.017	6.0	0.013	1.04	0.0031	7.8
CO-266	420	703.53	376	696.53	605.5	0.012	8.0	0.013	1.51	0.0183	15.0
CO-267	377	706.51	420	703.53	298.4	0.010	8.0	0.013	1.31	0.0134	10.5
CO-268	111	611.01	110	608.70	275.6	0.008	6.0	0.013	0.98	0.0055	12.5
CO-269	378	713.85	377	706.51	733.8	0.010	8.0	0.013	1.07	0.0070	8.4
CO-270	110	608.70	109	604.00	344.3	0.014	6.0	0.013	1.65	0.0176	15.0
CO-271	379	714.15	377	706.51	764.5	0.010	8.0	0.013	1.04	0.0064	8.2

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CO-272	380	719.51	378	713.85	565.7	0.010	8.0	0.013	0.73	0.0020	5.4
CO-273	109	604.00	Meadowlands LS	575.00	387.8	0.075	6.0	0.013	3.01	0.0176	12.6
CO-275	116	618.45	108	614.00	188.1	0.024	6.0	0.013	1.58	0.0080	11.5
CO-276	376	696.53	381	694.75	339.3	0.005	8.0	0.013	1.48	0.0433	21.1
CO-277	108	614.00	110	608.70	259.6	0.020	6.0	0.013	1.61	0.0104	14.2
CO-278	381	694.75	382	703.00	251.3	0.033	8.0	0.013	1.81	0.0101	16.0
CO-279	107	614.58	110	608.70	315.6	0.019	6.0	0.013	0.92	0.0018	10.5
CO-280	419	707.83	382	703.00	385.6	0.013	8.0	0.013	1.29	0.0101	8.0
CO-281	383	719.54	419	707.83	1,171.0	0.010	8.0	0.013	1.09	0.0075	7.9
CO-282	418	708.77	381	694.75	473.6	0.030	8.0	0.013	1.77	0.0106	16.0
CO-283	384	719.84	418	708.77	1,106.7	0.010	8.0	0.013	1.08	0.0073	7.9
CO-284	385	685.81	341	679.33	484.7	0.013	12.0	0.013	2.63	0.1179	22.7
CO-285	105	622.00	104	617.00	414.5	0.012	8.0	0.013	0.81	0.0022	4.3
CO-286	386	687.25	385	685.81	641.4	0.002	12.0	0.013	1.41	0.1179	19.9
CO-287	104	617.00	103	615.00	206.6	0.010	8.0	0.013	0.83	0.0031	6.8
CO-288	387	688.61	386	687.25	444.9	0.003	12.0	0.013	1.57	0.1179	21.4
CO-289	103	615.00	102	609.00	1,139.8	0.005	8.0	0.013	0.94	0.0092	8.5
CO-290	388	693.02	390	692.34	257.6	0.003	12.0	0.013	1.49	0.1179	25.2
CO-291	102	609.00	101	608.00	117.7	0.008	8.0	0.013	1.11	0.0092	8.2
CO-292	389	710.00	388	693.02	1,344.6	0.013	8.0	0.013	1.19	0.0077	19.7
CO-293	101	608.00	100	607.00	152.9	0.007	8.0	0.013	1.01	0.0092	10.1
CO-294	100	607.00	99	604.00	533.6	0.006	8.0	0.013	1.16	0.0174	12.2
CO-295	99	604.00	98	600.83	341.8	0.009	8.0	0.013	1.48	0.0222	15.1
CO-296	390	692.34	387	692.22	161.6	0.001	12.0	0.013	0.95	0.1179	23.3
CO-297	98	600.83	97	600.00	397.2	0.002	8.0	0.013	0.90	0.0240	15.6
CO-298	391	695.51	388	693.02	1,082.9	0.002	12.0	0.013	1.39	0.1102	21.3
CO-299	97	600.00	96	597.00	421.0	0.007	8.0	0.013	1.42	0.0262	14.0
CO-300	392	696.28	391	695.51	286.3	0.003	12.0	0.013	1.44	0.1034	20.6
CO-301	96	597.00	95	592.25	458.7	0.010	8.0	0.013	1.67	0.0286	13.6

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CO-302	393	696.97	392	696.28	250.7	0.003	12.0	0.013	1.43	0.0986	19.6
CO-303	95	592.25	Meadowlands LS	575.00	518.3	0.033	8.0	0.013	2.50	0.0286	12.1
CO-304	394	697.75	393	696.97	281.7	0.003	12.0	0.013	1.42	0.0937	19.1
CO-305	106	619.36	94	614.07	439.9	0.012	6.0	0.013	1.06	0.0046	8.8
CO-306	395	700.29	394	697.75	850.9	0.003	10.0	0.013	1.12	0.0365	18.7
CO-307	94	614.07	100	607.00	458.6	0.015	6.0	0.013	1.27	0.0064	12.7
CO-308	396	702.14	395	700.29	698.9	0.003	10.0	0.013	0.89	0.0191	13.0
CO-309	397	702.95	396	702.14	269.9	0.003	10.0	0.013	0.88	0.0163	10.6
CO-310	93	617.16	99	604.00	836.4	0.016	6.0	0.013	1.10	0.0040	12.2
CO-311	92	615.00	91	604.57	476.8	0.022	6.0	0.013	0.92	0.0015	5.3
CO-312	398	731.00	397	702.95	849.2	0.033	8.0	0.013	1.55	0.0059	9.5
CO-313	91	604.57	96	597.00	216.8	0.035	6.0	0.013	1.26	0.0024	12.5
CO-314	90	635.00	89	634.00	343.2	0.003	8.0	0.013	1.81	0.1849	41.7
CO-315	399	707.85	395	700.29	435.5	0.017	8.0	0.013	1.72	0.0174	14.8
CO-316	89	634.00	88	630.05	411.2	0.010	8.0	0.013	2.80	0.1849	35.3
CO-317	88	630.05	87	625.84	523.1	0.008	8.0	0.013	2.62	0.1849	36.1
CO-318	400	709.00	399	707.85	271.3	0.004	8.0	0.013	1.05	0.0174	11.9
CO-319	87	625.84	189	620.00	375.6	0.016	8.0	0.013	3.32	0.1849	64.3
CO-320	86	669.00	179	665.00	760.4	0.005	6.0	0.013	0.48	0.0009	24.2
CO-321	85	675.00	177	668.00	890.7	0.008	8.0	0.013	2.42	0.1430	33.0
CO-322	401	723.00	394	697.75	1,998.2	0.013	8.0	0.013	2.16	0.0546	24.0
CO-323	84	682.00	85	675.00	564.1	0.012	8.0	0.013	2.83	0.1395	32.3
CO-324	402	741.00	401	723.00	1,418.8	0.013	8.0	0.013	1.63	0.0211	16.0
CO-325	83	686.00	84	682.00	209.2	0.019	8.0	0.013	1.70	0.0150	21.2
CO-326	403	744.00	402	741.00	790.9	0.004	8.0	0.013	0.84	0.0095	11.0
CO-327	82	686.50	83	686.00	151.9	0.003	8.0	0.013	0.91	0.0143	11.3
CO-328	404	755.00	403	744.00	836.8	0.013	8.0	0.013	1.05	0.0048	7.8
CO-329	81	687.00	82	686.50	133.5	0.004	8.0	0.013	0.92	0.0130	11.8
CO-330	405	753.00	403	744.00	588.3	0.015	8.0	0.013	1.10	0.0046	7.7

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FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-331	80	688.00	83	686.00	320.5	0.006	8.0	0.013	0.45	0.0007	6.4
CO-332	406	732.00	401	723.00	1,155.9	0.008	8.0	0.013	1.58	0.0334	17.6
CO-333	407	736.00	406	732.00	664.2	0.006	8.0	0.013	1.35	0.0264	14.8
CO-334	78	661.50	79	659.00	324.9	0.008	8.0	0.013	1.51	0.0288	14.5
CO-335	408	737.00	407	736.00	270.9	0.004	8.0	0.013	0.96	0.0150	13.2
CO-336	77	662.00	78	661.50	50.3	0.010	8.0	0.013	1.62	0.0275	14.1
CO-337	409	757.00	408	737.00	1,140.8	0.018	8.0	0.013	1.38	0.0086	9.9
CO-338	76	665.00	77	662.00	485.5	0.006	8.0	0.013	1.02	0.0101	11.5
CO-339	410	755.00	408	737.00	1,141.4	0.016	8.0	0.013	1.22	0.0064	9.4
CO-340	75	669.00	76	665.00	475.3	0.008	8.0	0.013	1.07	0.0086	8.3
CO-341	411	740.00	397	702.95	1,072.5	0.035	8.0	0.013	1.85	0.0103	10.5
CO-342	74	672.00	75	669.00	401.4	0.007	8.0	0.013	0.96	0.0068	7.4
CO-346	413	711.00	394	697.75	639.1	0.021	8.0	0.013	1.03	0.0026	16.3
CO-347	414	705.00	393	696.97	610.2	0.013	8.0	0.013	1.06	0.0048	17.4
CO-348	415	702.50	392	696.28	607.9	0.010	8.0	0.013	0.97	0.0048	17.8
CO-349	73	698.00	72	696.00	255.4	0.008	6.0	0.013	0.55	0.0009	4.9
CO-350	416	715.47	4	703.96	1,151.0	0.010	8.0	0.013	1.16	0.0092	8.9
CO-351	72	696.00	71	682.00	576.3	0.024	6.0	0.013	1.12	0.0024	6.9
CO-352	417	712.02	3	700.75	1,127.0	0.010	8.0	0.013	1.13	0.0084	9.0
CO-353	71	682.00	70	674.00	390.1	0.021	8.0	0.013	1.25	0.0051	6.8
CO-354	422	639.60	203	639.30	133.7	0.002	8.0	0.013	0.28	0.0004	23.3
CO-355	70	674.00	69	672.22	263.7	0.007	8.0	0.013	0.95	0.0075	9.2
CO-356	423	643.00	424	625.81	1,116.5	0.015	8.0	0.013	1.88	0.0270	23.1
CO-357	205	613.90	425	612.00	43.1	0.044	8.0	0.013	2.78	0.0297	11.9
CO-358	426	606.67	427	605.83	294.4	0.003	30.0	0.013	2.28	0.6664	14.8
CO-359	427	605.83	428	604.98	300.8	0.003	30.0	0.013	2.28	0.6664	14.2
CO-360	68	691.50	69	672.22	1,223.9	0.016	6.0	0.013	1.13	0.0044	11.1
CO-361	428	604.98	429	604.14	212.1	0.004	30.0	0.013	2.56	0.6664	15.0
CO-362	429	604.14	430	603.75	203.9	0.002	30.0	0.013	1.98	0.6664	17.1
CO-363	67	686.00	66	671.00	1,226.7	0.012	6.0	0.013	1.04	0.0044	11.3

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-364	430	603.75	431	603.57	84.1	0.002	30.0	0.013	2.21	0.8432	19.0
CO-365	431	603.57	432	603.16	317.5	0.001	30.0	0.013	1.85	0.8432	20.0
CO-366	69	672.22	66	671.00	273.5	0.004	8.0	0.013	0.97	0.0125	10.9
CO-367	66	671.00	77	662.00	275.9	0.033	8.0	0.013	2.12	0.0174	12.5
CO-368	432	603.16	433	602.41	556.6	0.001	30.0	0.013	1.88	0.8432	17.4
CO-369	433	602.41	Justin Treatment Plant	596.00	189.0	0.034	30.0	0.013	5.83	0.8432	12.0
CO-370	65	684.00	208	681.50	426.9	0.006	8.0	0.013	0.88	0.0068	8.9
CO-372(1)	438	670.33	460	664.17	1,000.5	0.006	21.0	0.013	2.02	0.1551	9.8
CO-372(2)	460	664.17	435	635.85	4,596.4	0.006	21.0	0.013	2.03	0.1551	9.8
CO-373	64	686.50	65	684.00	448.6	0.006	8.0	0.013	0.75	0.0042	6.8
CO-374	435	635.85	436	628.55	1,213.7	0.006	30.0	0.013	1.91	0.1551	7.0
CO-375	63	691.00	64	686.50	258.3	0.017	8.0	0.013	0.79	0.0013	4.5
CO-376	436	628.55	437	627.00	630.3	0.002	30.0	0.013	1.40	0.1551	7.0
CO-377	62	688.00	64	686.50	95.2	0.016	8.0	0.013	0.55	0.0004	3.9
CO-378(1)	437	627.00	473	626.31	134.1	0.005	30.0	0.013	1.81	0.1551	6.4
CO-378(2)	473	626.31	323	619.50	1,317.2	0.005	30.0	0.013	1.81	0.1551	9.4
CO-379	61	691.00	60	686.00	484.7	0.010	8.0	0.013	0.82	0.0026	5.1
CO-380	240	702.58	337	706.45	884.6	0.004	8.0	0.013	1.16	0.0238	15.3
CO-381	60	686.00	59	683.50	313.1	0.008	8.0	0.013	0.88	0.0048	6.2
CO-382	280	606.77	Timberbrooks LS	606.50	58.8	0.005	12.0	0.013	2.32	0.2776	27.8
CO-383	59	683.50	208	681.50	258.1	0.008	8.0	0.013	0.91	0.0055	8.4
CO-384	439	682.54	441	675.45	178.5	0.040	15.0	0.013	4.08	0.1551	12.3
CO-385	441	675.45	438	670.33	345.8	0.015	15.0	0.013	2.87	0.1551	13.6
CO-386	58	689.97	60	686.00	174.0	0.023	8.0	0.013	0.59	0.0004	3.8
CO-387	440	686.12	439	682.54	300.9	0.012	15.0	0.013	2.67	0.1551	13.9
CO-388	57	681.00	56	668.31	413.5	0.031	8.0	0.013	1.22	0.0029	3.9
CO-390	56	668.31	55	665.37	237.4	0.012	8.0	0.013	0.89	0.0029	5.4

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-392	54	678.00	55	665.37	306.6	0.041	8.0	0.013	1.24	0.0022	5.1
CO-394	53	677.22	52	666.26	424.4	0.026	8.0	0.013	1.16	0.0031	5.0
CO-396	51	672.00	52	666.26	215.7	0.027	8.0	0.013	0.74	0.0007	3.8
CO-398	50	681.00	49	674.00	385.5	0.018	8.0	0.013	0.98	0.0026	4.6
CO-401	49	674.00	225	669.14	252.1	0.019	8.0	0.013	1.08	0.0035	11.4
CO-408	47	676.59	46	659.46	1,248.2	0.014	8.0	0.013	1.25	0.0081	9.5
CO-410	48	677.33	45	651.86	997.6	0.026	8.0	0.013	1.32	0.0046	9.0
CO-413	46	659.46	344	670.00	702.0	0.015	8.0	0.013	1.15	0.0055	8.9
CO-414	343	670.00	45	651.86	985.0	0.018	8.0	0.013	1.26	0.0059	9.4
CO-416	44	629.32	204	627.53	373.1	0.005	8.0	0.013	1.52	0.0521	20.2
CO-418	45	651.86	43	630.25	914.1	0.024	8.0	0.013	2.02	0.0213	16.6
CO-420	43	630.25	44	629.32	188.0	0.005	8.0	0.013	1.53	0.0521	20.9
CO-422	52	666.26	42	647.00	256.6	0.075	8.0	0.013	1.88	0.0042	4.3
CO-424	42	647.00	41	639.00	365.7	0.022	8.0	0.013	1.21	0.0042	8.7
CO-426	312	645.00	40	641.95	208.3	0.015	8.0	0.013	1.32	0.0090	7.4
CO-428	40	641.95	39	622.00	373.0	0.053	8.0	0.013	2.08	0.0090	11.2
CO-430	39	622.00	205	613.90	413.0	0.020	8.0	0.013	2.10	0.0297	12.9
CO-431	38	621.00	93	617.16	148.3	0.026	6.0	0.013	0.77	0.0007	5.3
CO-432	37	621.00	106	619.36	208.5	0.008	6.0	0.013	0.44	0.0004	5.4
CO-433	36	624.00	108	614.00	405.8	0.025	6.0	0.013	1.05	0.0020	8.8
CO-434	35	624.00	106	619.36	483.3	0.010	6.0	0.013	0.77	0.0022	6.9
CO-435	34	626.99	112	615.01	303.4	0.039	12.0	0.013	1.05	0.0018	2.7
CO-436	33	662.09	183	649.00	1,015.0	0.013	6.0	0.013	0.95	0.0031	27.6
CO-437	32	669.74	182	650.00	1,097.2	0.018	6.0	0.013	1.15	0.0040	32.9
CO-438	31	649.81	171	646.05	291.6	0.013	6.0	0.013	0.65	0.0009	5.4
CO-439	30	641.00	172	639.48	265.3	0.006	6.0	0.013	0.50	0.0009	6.3
CO-440	29	658.29	28	638.00	776.5	0.026	6.0	0.013	1.01	0.0018	5.3
CO-441	28	638.00	27	637.33	55.4	0.012	6.0	0.013	0.84	0.0022	5.5
CO-442	27	637.33	167	629.20	165.0	0.049	6.0	0.013	1.37	0.0022	52.8
CO-443	26	656.00	185	645.00	726.4	0.015	6.0	0.013	1.02	0.0033	26.8

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-444	25	639.27	173	626.80	539.7	0.023	6.0	0.010	1.24	0.0022	52.8
CO-445	24	633.00	131	628.00	139.7	0.036	8.0	0.013	0.71	0.0004	8.4
CO-446	23	632.98	129	630.50	282.6	0.009	8.0	0.013	0.45	0.0004	7.4
CO-447	160	635.27	12th Street LS (Downtown)	622.00	328.5	0.040	8.0	0.013	2.22	0.0157	8.8
CO-448(1)	22	651.05	477	648.99	743.5	0.003	10.0	0.013	0.84	0.0150	9.8
CO-448(2)	477	648.99	292	647.93	381.5	0.003	10.0	0.013	0.84	0.0150	13.0
CO-449	21	641.91	358	641.44	147.6	0.003	12.0	0.013	2.07	0.2959	33.3
CO-450	358	641.44	202	640.44	347.3	0.003	12.0	0.013	2.03	0.3115	33.7
CO-452	20	696.00	19	693.50	751.8	0.003	8.0	0.013	0.40	0.0009	2.9
CO-453	19	693.50	18	688.75	321.3	0.015	8.0	0.013	0.66	0.0009	6.4
CO-454	17	660.12	359	651.40	1,003.1	0.009	8.0	0.013	1.72	0.0396	17.8
CO-455	359	651.40	202	640.44	551.3	0.020	8.0	0.013	2.46	0.0486	34.3
CO-456	18	688.75	81	687.00	325.0	0.005	8.0	0.013	1.04	0.0130	10.9
CO-462	320	648.58	21	641.91	866.7	0.008	12.0	0.013	2.84	0.2959	30.2
CO-464	14	677.74	285	665.28	1,010.6	0.012	8.0	0.013	0.95	0.0037	6.4
CO-465	79	659.00	12th Street LS (Private)	645.00	403.8	0.035	8.0	0.013	2.59	0.0306	12.4
CO-466	13	636.61	12	626.00	1,177.1	0.009	8.0	0.013	0.56	0.0009	3.1
CO-467	12	626.00	114	623.31	227.5	0.012	8.0	0.013	0.75	0.0018	5.3
CO-468	11	635.83	12	626.00	1,238.6	0.008	8.0	0.013	0.53	0.0009	3.1
CO-469	10	611.22	9	600.00	731.6	0.015	10.0	0.013	1.16	0.0060	4.6
CO-470	9	600.00	8	597.00	587.0	0.005	18.0	0.013	0.73	0.0060	20.0
CO-471	8	597.00	Justin Treatment Plant	596.00	132.8	0.008	24.0	0.013	4.33	1.6786	26.3
CO-474	425	609.57	426	606.67	473.4	0.006	30.0	0.013	2.89	0.5975	13.6
CO-475	189	620.00	8	597.00	298.0	0.077	18.0	0.013	10.19	1.6726	30.4
CO-476	7	694.00	6	692.50	512.8	0.003	8.0	0.013	1.17	0.0392	20.3

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-477	6	692.50	5	689.00	1,067.3	0.003	8.0	0.013	1.22	0.0392	21.3
CO-478	4	703.96	1	698.09	835.9	0.007	8.0	0.013	1.15	0.0130	12.4
CO-479	5	689.00	2	688.00	386.2	0.003	8.0	0.013	1.16	0.0444	22.0
CO-480	2	688.00	336	677.25	291.3	0.037	8.0	0.013	3.29	0.0636	17.7
CO-481	3	700.75	1	698.09	564.1	0.005	8.0	0.013	0.98	0.0121	12.7
CO-482	381	694.75	353	694.00	162.1	0.005	8.0	0.013	1.59	0.0640	27.1

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Outfall Table

Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Flow (Total Out) (MGD)
Meadowlands LS	600.74	575.00	0.0462
12th Street LS (Private)	666.05	645.00	0.0306
12th Street LS (Downtown)	637.00	622.00	0.0395
Timberbrooks LS	626.50	606.50	0.2776
Justin Treatment Plant	616.27	596.00	2.5218

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
1	710.15	698.09	0.0000	0.1003	0.1003
2	697.00	688.00	0.0000	0.2543	0.2543
3	713.23	700.75	0.0150	0.0334	0.0484
4	715.75	703.96	0.0150	0.0370	0.0519
5	699.00	689.00	0.0000	0.1778	0.1778
6	701.00	692.50	0.0000	0.1566	0.1566
7	701.00	694.00	0.0000	0.1566	0.1566
8	616.65	597.00	0.0000	1.9873	1.9873
9	624.36	600.00	0.0000	0.0240	0.0240
10	615.22	611.22	0.0240	0.0000	0.0240
11	639.83	635.83	0.0036	0.0000	0.0036
12	630.00	626.00	0.0000	0.0072	0.0072
13	640.61	636.61	0.0036	0.0000	0.0036
14	684.46	677.74	0.0150	0.0000	0.0150
15	665.40	656.95	0.0079	1.0375	1.0454
17	672.00	660.12	0.0273	0.1311	0.1584
18	695.45	688.75	0.0484	0.0035	0.0519
19	700.00	693.50	0.0000	0.0035	0.0035
20	702.00	696.00	0.0035	0.0000	0.0035
21	655.88	641.91	0.0000	1.1836	1.1836
22	671.67	651.05	0.0000	0.0600	0.0600
23	636.98	632.98	0.0018	0.0000	0.0018
24	637.85	633.00	0.0018	0.0000	0.0018
25	643.27	639.27	0.0088	0.0000	0.0088
26	663.00	656.00	0.0132	0.0000	0.0132
27	641.33	637.33	0.0000	0.0089	0.0089
28	642.00	638.00	0.0018	0.0071	0.0089
29	662.29	658.29	0.0071	0.0000	0.0071
30	645.00	641.00	0.0036	0.0000	0.0036
31	653.81	649.81	0.0035	0.0000	0.0035
32	681.00	669.74	0.0158	0.0000	0.0158
33	673.00	662.09	0.0123	0.0000	0.0123
34	630.99	626.99	0.0070	0.0000	0.0070
35	628.00	624.00	0.0088	0.0000	0.0088
36	628.00	624.00	0.0079	0.0000	0.0079
37	625.00	621.00	0.0018	0.0000	0.0018
38	625.00	621.00	0.0026	0.0000	0.0026
39	626.00	622.00	0.0018	0.1170	0.1188
40	645.95	641.95	0.0000	0.0361	0.0361
41	646.00	639.00	0.0088	0.0722	0.0810
42	654.00	647.00	0.0000	0.0167	0.0167
43	639.22	630.25	0.0000	0.2086	0.2086
44	635.02	629.32	0.0000	0.2086	0.2086
45	664.58	651.86	0.0202	0.0651	0.0854
46	671.94	659.46	0.0202	0.0546	0.0748
47	683.37	676.59	0.0326	0.0000	0.0326

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
48	683.31	677.33	0.0185	0.0000	0.0185
49	680.62	674.00	0.0035	0.0106	0.0141
50	685.00	681.00	0.0106	0.0000	0.0106
51	679.25	672.00	0.0026	0.0000	0.0026
52	670.26	666.26	0.0018	0.0150	0.0167
53	681.22	677.22	0.0123	0.0000	0.0123
54	682.00	678.00	0.0088	0.0000	0.0088
55	669.37	665.37	0.0026	0.0202	0.0229
56	672.31	668.31	0.0000	0.0114	0.0114
57	685.00	681.00	0.0114	0.0000	0.0114
58	693.97	689.97	0.0018	0.0000	0.0018
59	692.00	683.50	0.0026	0.0194	0.0220
60	693.50	686.00	0.0070	0.0123	0.0194
61	695.00	691.00	0.0106	0.0000	0.0106
62	692.00	688.00	0.0018	0.0000	0.0018
63	695.00	691.00	0.0053	0.0000	0.0053
64	693.29	686.50	0.0097	0.0070	0.0167
65	691.97	684.00	0.0106	0.0167	0.0273
66	675.00	671.00	0.0018	0.0678	0.0695
67	689.00	686.00	0.0176	0.0000	0.0176
68	695.50	691.50	0.0176	0.0000	0.0176
69	676.19	672.22	0.0026	0.0475	0.0502
70	678.00	674.00	0.0097	0.0202	0.0299
71	686.09	682.00	0.0106	0.0097	0.0202
72	700.00	696.00	0.0062	0.0035	0.0097
73	702.00	698.00	0.0035	0.0000	0.0035
74	681.64	672.00	0.0273	0.0000	0.0273
75	684.00	669.00	0.0070	0.0273	0.0343
76	680.71	665.00	0.0062	0.0343	0.0405
77	673.00	662.00	0.0000	0.1100	0.1100
78	673.00	661.50	0.0053	0.1100	0.1153
79	670.00	659.00	0.0070	0.1153	0.1223
80	692.64	688.00	0.0026	0.0000	0.0026
81	697.00	687.00	0.0000	0.0519	0.0519
82	696.89	686.50	0.0053	0.0519	0.0572
83	695.07	686.00	0.0000	0.0598	0.0598
84	692.67	682.00	0.1312	0.0598	0.1910
85	686.04	675.00	0.0141	0.1910	0.2051
86	676.00	669.00	0.0036	0.0000	0.0036
87	629.75	625.84	0.0000	0.1849	0.1849
88	634.05	630.05	0.0000	0.1849	0.1849
89	638.00	634.00	0.0000	0.1849	0.1849
90	639.00	635.00	0.1849	0.0000	0.1849
91	608.57	604.57	0.0035	0.0062	0.0097
92	619.26	615.00	0.0062	0.0000	0.0062
93	621.16	617.16	0.0132	0.0026	0.0158

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
94	618.07	614.07	0.0070	0.0185	0.0255
95	596.25	592.25	0.0000	0.1144	0.1144
96	604.14	597.00	0.0000	0.1144	0.1144
97	604.00	600.00	0.0088	0.0959	0.1047
98	604.83	600.83	0.0070	0.0889	0.0959
99	615.32	604.00	0.0035	0.0854	0.0889
100	613.82	607.00	0.0070	0.0625	0.0695
101	613.00	608.00	0.0000	0.0370	0.0370
102	612.36	609.00	0.0000	0.0370	0.0370
103	617.60	615.00	0.0246	0.0123	0.0370
104	623.40	617.00	0.0035	0.0088	0.0123
105	630.59	622.00	0.0088	0.0000	0.0088
106	623.36	619.36	0.0079	0.0106	0.0185
107	618.58	614.58	0.0070	0.0000	0.0070
108	618.00	614.00	0.0018	0.0397	0.0415
109	608.00	604.00	0.0000	0.0705	0.0705
110	612.70	608.70	0.0000	0.0705	0.0705
111	615.01	611.01	0.0097	0.0123	0.0220
112	619.01	615.01	0.0053	0.0070	0.0123
113	632.33	628.33	0.0097	0.0000	0.0097
114	627.31	623.31	0.0044	0.0169	0.0213
115	625.81	621.81	0.0070	0.0213	0.0283
116	622.45	618.45	0.0018	0.0301	0.0318
117	630.32	626.32	0.0000	0.0018	0.0018
118	631.79	627.79	0.0018	0.0000	0.0018
119	636.30	634.00	0.0072	0.0000	0.0072
120	639.00	635.00	0.0054	0.0000	0.0054
121	638.41	635.41	0.0018	0.0000	0.0018
122	638.00	635.00	0.0018	0.0000	0.0018
123	639.37	635.37	0.0090	0.0000	0.0090
124	637.33	634.50	0.0072	0.0000	0.0072
125	639.71	634.00	0.0036	0.0072	0.0108
126	640.00	633.00	0.0000	0.0269	0.0269
127	638.00	632.00	0.0000	0.0305	0.0305
128	638.00	631.00	0.0000	0.0359	0.0359
129	639.00	630.50	0.0197	0.0376	0.0574
130	638.52	629.50	0.0000	0.0574	0.0574
131	638.93	628.00	0.0000	0.0592	0.0592
132	631.15	627.15	0.0000	0.0592	0.0592
133	648.00	644.00	0.0000	0.0361	0.0361
134	657.27	653.27	0.0300	0.0062	0.0361
135	683.62	679.62	0.0062	0.0000	0.0062
136	688.94	684.94	0.0088	0.0000	0.0088
137	684.00	680.00	0.0079	0.0088	0.0167
138	673.70	669.70	0.0053	0.0167	0.0220
139	665.44	661.44	0.0132	0.0220	0.0352

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
140	647.95	643.95	0.0018	0.0352	0.0370
141	649.63	645.63	0.0080	0.0176	0.0256
142	655.77	651.77	0.0035	0.0141	0.0176
143	666.41	662.41	0.0079	0.0062	0.0141
144	676.16	672.16	0.0062	0.0000	0.0062
145	650.00	646.00	0.0116	0.0264	0.0380
146	654.80	650.80	0.0062	0.0203	0.0264
147	663.89	659.89	0.0080	0.0123	0.0203
148	684.50	680.50	0.0123	0.0000	0.0123
149	659.42	655.42	0.0125	0.0212	0.0336
150	682.72	678.72	0.0212	0.0000	0.0212
151	679.20	675.20	0.0176	0.0000	0.0176
152	680.00	676.00	0.0097	0.0000	0.0097
153	642.65	631.50	0.0036	1.3941	1.3977
154	667.28	663.28	0.0160	0.0291	0.0450
155	671.41	667.41	0.0000	0.0114	0.0114
156	678.17	674.17	0.0000	0.0114	0.0114
157	678.92	674.92	0.0018	0.0000	0.0018
158	642.00	630.50	0.0036	1.4136	1.4172
159	674.11	670.11	0.0159	0.0000	0.0159
160	639.27	635.27	0.0000	0.0626	0.0626
161	641.92	636.92	0.0000	0.0256	0.0256
162	644.00	634.50	1.2739	0.0380	1.3119
163	643.00	633.00	0.0036	1.3455	1.3491
164	641.74	631.00	0.0000	1.3977	1.3977
165	643.00	630.00	0.0000	1.4172	1.4172
166	641.00	629.50	0.0000	1.4172	1.4172
167	640.87	629.20	0.0018	1.4261	1.4279
168	639.51	628.50	0.0000	1.4481	1.4481
169	669.64	665.64	0.0070	0.0000	0.0070
170	657.00	653.00	0.0018	0.0070	0.0088
171	650.05	646.05	0.0018	0.0123	0.0141
172	643.48	639.48	0.0026	0.0176	0.0203
173	638.23	626.80	0.0000	1.4569	1.4569
174	657.00	645.64	0.0114	0.0000	0.0114
175	689.00	679.19	0.0114	0.0000	0.0114
176	676.00	669.00	0.0009	0.0114	0.0123
177	675.00	668.00	0.0000	0.2174	0.2174
178	675.00	666.00	0.0000	0.2174	0.2174
179	675.00	665.00	0.0053	0.2210	0.2263
180	668.00	661.00	0.0123	0.2263	0.2386
181	657.00	651.00	0.0018	0.2386	0.2404
182	656.00	650.00	0.0044	0.2562	0.2606
183	656.00	649.00	0.0009	0.2729	0.2738
184	655.00	648.00	0.0026	0.2738	0.2764
185	655.00	645.00	0.0062	0.2896	0.2958

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
186	650.00	640.10	0.0053	0.3072	0.3125
187	636.81	625.80	0.0036	0.3125	0.3161
188	634.90	625.00	0.0000	1.7730	1.7730
189	630.12	620.00	0.0000	1.9633	1.9633
190	633.16	624.00	0.0054	1.7730	1.7784
191	642.00	630.32	0.0229	0.0000	0.0229
192	639.34	635.34	0.0220	0.0000	0.0220
193	661.00	650.50	0.0510	0.0000	0.0510
194	663.00	656.00	0.0581	0.0000	0.0581
195	652.00	645.00	0.0229	0.1091	0.1320
196	660.00	653.00	0.0370	0.0000	0.0370
197	643.00	631.95	0.0035	0.0370	0.0405
198	641.00	630.48	0.0009	0.1725	0.1734
199	640.00	629.51	0.0000	0.1954	0.1954
200	640.00	629.00	0.0361	0.1954	0.2314
201	640.00	628.50	0.0035	0.2543	0.2578
202	657.86	640.44	0.0000	1.4406	1.4406
203	651.68	639.30	0.0000	1.4424	1.4424
204	635.35	627.53	0.0000	0.2086	0.2086
205	627.03	613.90	0.0000	0.1188	0.1188
206	642.00	630.70	0.0176	0.0000	0.0176
207	637.00	626.60	0.0000	0.2754	0.2754
208	692.00	681.50	0.0044	0.0493	0.0537
209	691.63	687.63	0.0035	0.0000	0.0035
210	692.87	688.87	0.0035	0.0000	0.0035
211	692.00	686.00	0.0053	0.0070	0.0123
212	688.97	680.00	0.0035	0.0660	0.0695
213	682.39	678.39	0.0026	0.0695	0.0722
214	678.00	673.10	0.0035	0.0722	0.0757
215	694.00	690.00	0.0150	0.0000	0.0150
216	684.36	672.00	0.0035	0.0906	0.0942
217	691.85	687.85	0.0176	0.0000	0.0176
218	685.00	670.90	0.0035	0.1118	0.1153
219	693.50	689.42	0.0018	0.0000	0.0018
220	692.65	688.63	0.0070	0.0018	0.0088
221	687.02	683.02	0.0026	0.0088	0.0114
222	680.80	676.80	0.0044	0.0114	0.0158
223	688.76	684.76	0.0167	0.0000	0.0167
224	681.00	669.80	0.0018	0.1320	0.1338
225	678.34	669.14	0.0009	0.1478	0.1487
226	675.00	668.49	0.0009	0.1646	0.1654
227	675.00	668.10	0.0000	0.1654	0.1654
228	667.43	663.43	0.0000	0.1654	0.1654
229	660.66	656.66	0.0000	0.1654	0.1654
230	652.07	648.07	0.0000	0.3814	0.3814
231	617.00	613.00	0.0000	0.7073	0.7073

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
232	623.02	619.02	0.0000	0.7073	0.7073
233	634.54	630.54	0.0018	0.5957	0.5975
234	642.74	633.00	0.0018	0.5939	0.5957
235	645.01	634.00	0.0054	0.5885	0.5939
236	646.60	637.50	0.0000	0.5885	0.5885
237	646.27	637.60	0.0000	0.5885	0.5885
238	649.49	645.49	0.0054	0.2017	0.2071
239	654.00	647.00	0.0018	0.1999	0.2017
240	715.79	702.58	0.0202	0.0950	0.1153
241	713.78	701.32	0.0308	0.1153	0.1461
242	707.86	697.69	0.0000	0.2112	0.2112
243	708.74	696.43	0.0255	0.2112	0.2367
244	709.51	694.41	0.0370	0.2367	0.2737
245	697.57	685.41	0.0026	0.2948	0.2974
246	702.25	695.20	0.0211	0.0000	0.0211
247	699.14	684.09	0.0035	0.3344	0.3379
248	693.35	682.77	0.0035	0.3898	0.3934
249	683.16	672.11	0.0018	0.4022	0.4039
250	668.43	660.38	0.0062	0.4171	0.4233
251	690.59	684.04	0.0132	0.0000	0.0132
252	656.00	647.39	0.0000	0.7383	0.7383
253	652.94	646.89	0.0000	0.7383	0.7383
254	628.48	619.55	0.0035	0.8765	0.8800
255	634.67	627.08	0.0158	0.0000	0.0158
256	651.29	640.84	0.0070	0.1100	0.1170
257	679.35	670.87	0.0202	0.0000	0.0202
258	659.57	648.16	0.0044	0.0854	0.0898
259	661.88	652.60	0.0097	0.0387	0.0484
260	685.49	673.84	0.0220	0.0167	0.0387
261	702.55	696.00	0.0167	0.0000	0.0167
262	684.59	677.53	0.0370	0.0000	0.0370
263	666.17	658.54	0.0132	0.0273	0.0405
264	642.59	634.66	0.0035	0.0537	0.0572
265	671.57	665.52	0.0132	0.0000	0.0132
266	638.66	628.22	0.0070	0.0845	0.0915
267	653.78	643.95	0.0079	0.0194	0.0273
268	654.48	647.43	0.0194	0.0000	0.0194
269	653.36	646.31	0.0141	0.0000	0.0141
270	626.58	617.80	0.0106	0.9398	0.9504
271	661.10	652.34	0.0414	0.0000	0.0414
272	627.49	618.69	0.0044	0.9214	0.9258
273	632.66	615.97	0.0114	0.9645	0.9759
274	646.22	640.17	0.0141	0.0000	0.0141
275	626.83	614.51	0.0035	1.0674	1.0710
276	626.86	613.48	0.0158	1.0806	1.0965
277	623.97	610.89	0.0000	1.1106	1.1106

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
278	628.22	622.17	0.0141	0.0000	0.0141
279	629.72	623.67	0.0097	0.0000	0.0097
280	624.65	606.77	0.0000	1.1106	1.1106
281	621.00	607.50	0.0000	0.0000	0.0000
282	680.94	673.59	0.0088	0.0000	0.0088
283	713.91	705.91	0.0370	0.0000	0.0370
284	709.71	699.50	0.0651	0.0000	0.0651
285	676.69	665.28	0.0000	0.0238	0.0238
286	684.35	677.74	0.0678	0.0000	0.0678
287	686.89	679.40	0.0088	0.0000	0.0088
288	681.88	675.31	0.0220	0.0000	0.0220
289	674.27	661.54	0.0000	0.0634	0.0634
290	680.15	662.79	0.0088	0.0326	0.0414
291	678.42	664.04	0.0088	0.0238	0.0326
292	657.93	647.93	0.0000	0.1999	0.1999
293	688.12	680.00	0.0202	0.0000	0.0202
294	685.74	675.28	0.0044	0.0317	0.0361
295	686.10	677.87	0.0114	0.0000	0.0114
296	686.35	674.16	0.0035	0.0422	0.0458
297	686.50	679.94	0.0062	0.0000	0.0062
298	687.19	673.27	0.0044	0.0493	0.0537
299	687.72	680.79	0.0035	0.0000	0.0035
300	683.66	672.05	0.0202	0.0669	0.0871
301	689.48	683.51	0.0132	0.0000	0.0132
302	674.98	667.28	0.0000	0.1399	0.1399
303	688.39	683.19	0.0229	0.0000	0.0229
304	690.09	684.74	0.0299	0.0000	0.0299
305	692.12	678.88	0.0000	0.8862	0.8862
306	677.34	663.81	0.0141	0.9363	0.9504
307	673.34	665.85	0.0317	0.0554	0.0871
308	685.55	677.81	0.0194	0.0000	0.0194
309	683.15	668.86	0.0361	0.0000	0.0361
310	672.84	665.47	0.0088	0.0000	0.0088
311	673.46	666.46	0.0554	0.0000	0.0554
312	652.00	645.00	0.0361	0.0000	0.0361
313	655.00	649.00	0.0000	0.2160	0.2160
314	660.00	656.00	0.0000	0.1620	0.1620
315	665.00	658.50	0.0000	0.1080	0.1080
316	671.00	664.00	0.0540	0.0000	0.0540
317	677.00	670.00	0.0540	0.0000	0.0540
318	670.00	663.00	0.0540	0.0000	0.0540
319	673.00	667.00	0.0540	0.0000	0.0540
320	659.72	648.58	0.0070	1.1766	1.1836
321	652.90	639.66	0.0000	1.4406	1.4406
322	661.52	651.66	0.0000	0.1399	0.1399
323	642.14	619.50	0.0000	2.0628	2.0628

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
324	644.75	634.24	0.0484	0.0748	0.1232
325	669.84	662.79	0.0273	0.0000	0.0273
326	631.39	620.64	0.0053	0.1170	0.1223
327	667.06	660.05	0.0000	0.3150	0.3150
328	687.80	678.10	0.0079	0.0528	0.0607
329	703.09	695.12	0.0185	0.0343	0.0528
330	707.36	699.70	0.0158	0.0185	0.0343
331	712.25	705.20	0.0079	0.0106	0.0185
332	716.88	709.51	0.0106	0.0000	0.0106
333	715.72	708.81	0.0519	0.0000	0.0519
334	665.00	656.25	0.0000	0.3150	0.3150
335	663.00	657.00	0.0000	0.3150	0.3150
336	697.70	677.25	0.0000	0.2543	0.2543
337	714.42	706.45	0.0950	0.0000	0.0950
338	701.95	693.00	0.0220	0.0000	0.0220
339	698.12	683.00	0.0000	0.4145	0.4145
340	699.36	688.00	0.0000	0.3925	0.3925
341	692.05	679.33	0.0000	0.8862	0.8862
342	679.00	658.95	0.0600	0.0000	0.0600
343	676.08	670.00	0.0238	0.0000	0.0238
344	676.08	670.00	0.0220	0.0000	0.0220
345	635.35	614.98	0.0000	2.2713	2.2713
346	700.78	689.42	0.0000	0.3925	0.3925
347	710.14	698.78	0.0334	0.0000	0.0334
348	704.15	692.79	0.0097	0.3494	0.3590
349	709.01	697.65	0.0079	0.0651	0.0730
350	713.82	702.37	0.0000	0.0370	0.0370
351	719.97	708.52	0.0370	0.0000	0.0370
352	717.53	706.17	0.0282	0.0000	0.0282
353	710.67	694.00	0.0202	0.2561	0.2763
354	666.25	650.64	0.0062	1.0903	1.0965
355	675.60	665.60	0.0449	0.0000	0.0449
356	674.28	667.08	0.0801	0.0000	0.0801
357	676.69	669.69	0.0554	0.0000	0.0554
358	656.32	641.44	0.0070	1.2390	1.2461
359	660.14	651.40	0.0132	0.1813	0.1945
360	672.00	665.00	0.0229	0.0000	0.0229
361	685.85	675.46	0.0282	0.8994	0.9275
362	693.00	677.92	0.0132	0.8862	0.8994
363	722.00	715.00	0.0211	0.0000	0.0211
364	719.00	712.00	0.0167	0.0598	0.0766
365	721.00	714.00	0.0378	0.0220	0.0598
366	722.00	715.00	0.0026	0.0194	0.0220
367	733.00	726.00	0.0194	0.0000	0.0194
368	707.00	700.00	0.0088	0.0440	0.0528
369	725.00	718.00	0.0185	0.0000	0.0185

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
370	720.00	713.00	0.0255	0.0000	0.0255
371	713.00	700.00	0.0141	0.0898	0.1038
372	725.00	711.50	0.0035	0.0352	0.0387
373	733.00	723.00	0.0229	0.0000	0.0229
374	720.00	713.00	0.0123	0.0000	0.0123
375	735.00	728.00	0.0440	0.0000	0.0440
376	707.53	696.53	0.0000	0.1734	0.1734
377	713.51	706.51	0.0000	0.0537	0.0537
378	720.85	713.85	0.0202	0.0079	0.0282
379	721.15	714.15	0.0255	0.0000	0.0255
380	726.51	719.51	0.0079	0.0000	0.0079
381	710.66	694.75	0.0000	0.2561	0.2561
382	713.18	703.00	0.0000	0.0405	0.0405
383	726.54	719.54	0.0299	0.0000	0.0299
384	726.84	719.84	0.0290	0.0000	0.0290
385	700.22	685.81	0.0000	0.4717	0.4717
386	699.66	687.25	0.0000	0.4717	0.4717
387	698.53	688.61	0.0000	0.4717	0.4717
388	703.57	693.02	0.0000	0.4717	0.4717
389	716.39	710.00	0.0308	0.0000	0.0308
390	699.69	692.34	0.0000	0.4717	0.4717
391	704.97	695.51	0.0273	0.4136	0.4409
392	706.84	696.28	0.0000	0.4136	0.4136
393	708.51	696.97	0.0000	0.3942	0.3942
394	711.52	697.75	0.0000	0.3749	0.3749
395	718.37	700.29	0.0000	0.1461	0.1461
396	714.19	702.14	0.0114	0.0651	0.0766
397	715.00	702.95	0.0000	0.0651	0.0651
398	741.00	731.00	0.0238	0.0000	0.0238
399	716.82	707.85	0.0000	0.0695	0.0695
400	718.39	709.00	0.0695	0.0000	0.0695
401	730.00	723.00	0.0000	0.2182	0.2182
402	748.00	741.00	0.0466	0.0378	0.0845
403	751.00	744.00	0.0000	0.0378	0.0378
404	762.00	755.00	0.0194	0.0000	0.0194
405	760.00	753.00	0.0185	0.0000	0.0185
406	739.00	732.00	0.0282	0.1056	0.1338
407	744.00	736.00	0.0458	0.0598	0.1056
408	744.00	737.00	0.0000	0.0598	0.0598
409	764.00	757.00	0.0343	0.0000	0.0343
410	762.00	755.00	0.0255	0.0000	0.0255
411	748.00	740.00	0.0414	0.0000	0.0414
412	650.00	638.43	0.0000	0.3814	0.3814
413	715.92	711.00	0.0106	0.0000	0.0106
414	712.20	705.00	0.0194	0.0000	0.0194
415	709.79	702.50	0.0194	0.0000	0.0194

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
416	722.47	715.47	0.0370	0.0000	0.0370
417	719.02	712.02	0.0334	0.0000	0.0334
418	717.45	708.77	0.0132	0.0290	0.0422
419	720.47	707.83	0.0106	0.0299	0.0405
420	716.20	703.53	0.0194	0.0537	0.0730
421	710.00	703.00	0.0070	0.0440	0.0510
422	647.57	639.60	0.0018	0.0000	0.0018
423	650.00	643.00	0.1080	0.0000	0.1080
424	629.82	625.81	0.0018	0.7055	0.7073
425	625.31	609.57	0.0000	2.3901	2.3901
426	621.61	606.67	0.0000	2.6656	2.6656
427	619.19	605.83	0.0000	2.6656	2.6656
428	617.08	604.98	0.0000	2.6656	2.6656
429	617.43	604.14	0.0000	2.6656	2.6656
430	614.23	603.75	0.0000	3.3728	3.3728
431	613.00	603.57	0.0000	3.3728	3.3728
432	611.00	603.16	0.0000	3.3728	3.3728
433	611.23	602.41	0.0000	3.3728	3.3728
434	704.25	688.76	0.0000	0.0000	0.0000
435	657.20	635.85	0.0000	0.6204	0.6204
436	649.22	628.55	0.0000	0.6204	0.6204
437	642.58	627.00	0.0000	0.6204	0.6204
438	688.44	670.33	0.0000	0.6204	0.6204
439	696.60	682.54	0.0000	0.6204	0.6204
440	698.97	686.12	0.6204	0.0000	0.6204
441	691.08	675.45	0.0000	0.6204	0.6204
460	682.86	664.17	0.0000	0.6204	0.6204
473	642.54	626.31	0.0000	0.6204	0.6204
474	651.00	627.00	0.0000	0.0000	0.0000
477	662.59	648.99	0.0000	0.0600	0.0600
488	621.06	600.07	0.0000	0.0000	0.0000
489	668.34	664.34	0.0000	0.0000	0.0000
491	620.67	607.00	0.0000	0.0000	0.0000
492	612.00	604.00	0.0000	0.0000	0.0000
493	617.21	603.50	0.0000	0.0000	0.0000
494	621.75	602.00	0.0000	0.0000	0.0000
495	615.51	603.00	0.0000	0.0000	0.0000
496	729.11	722.11	0.0000	0.0000	0.0000
497	655.41	644.22	0.0000	0.0000	0.0000
498	660.78	650.78	0.0000	0.0000	0.0000
499	656.22	645.50	0.0000	0.0000	0.0000

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-1	240	702.58	241	701.32	291.4	0.004	8.0	0.013	1.84	0.1153	34.4
CO-2	241	701.32	242	697.69	852.2	0.004	8.0	0.013	1.95	0.1461	40.6
CO-3	242	697.69	243	696.43	290.7	0.004	8.0	0.013	2.17	0.2112	45.1
CO-4	243	696.43	244	694.41	398.9	0.005	8.0	0.013	2.37	0.2367	45.8
CO-5	239	647.00	238	645.49	401.5	0.004	10.0	0.013	2.01	0.2017	31.1
CO-6	244	694.41	245	685.41	1,382.5	0.007	8.0	0.013	2.70	0.2737	47.6
CO-7	238	645.49	237	637.60	411.9	0.019	10.0	0.013	3.61	0.2071	38.7
CO-8	245	685.41	246	695.20	1,204.2	0.008	8.0	0.013	1.40	0.0211	30.7
CO-9	237	637.60	236	637.50	8.5	0.012	12.0	0.013	4.02	0.5885	37.0
CO-10	245	685.41	247	684.09	317.3	0.004	10.0	0.013	2.31	0.2974	40.5
CO-11	236	637.50	235	634.00	466.8	0.007	12.0	0.013	3.42	0.5885	43.3
CO-12	247	684.09	248	682.77	308.0	0.004	10.0	0.013	2.42	0.3379	41.4
CO-13	235	634.00	234	633.00	295.1	0.003	12.0	0.013	2.56	0.5939	43.4
CO-14	248	682.77	249	672.11	314.3	0.034	10.0	0.013	5.33	0.3934	41.4
CO-15	234	633.00	233	630.54	378.4	0.007	12.0	0.013	3.25	0.5957	40.3
CO-16	249	672.11	250	660.38	321.6	0.036	10.0	0.013	5.51	0.4039	42.2
CO-17	250	660.38	251	684.04	730.2	0.032	8.0	0.013	1.95	0.0132	31.5
CO-18	233	630.54	424	625.81	140.6	0.034	12.0	0.013	5.88	0.5975	42.2
CO-19	424	625.81	232	619.02	202.2	0.034	12.0	0.013	6.17	0.7073	35.9
CO-20	232	619.02	231	613.00	312.8	0.019	12.0	0.013	5.05	0.7073	38.0
CO-21	250	660.38	252	647.39	332.3	0.039	10.0	0.013	5.73	0.4233	59.5
CO-22	231	613.00	430	605.89	258.6	0.027	12.0	0.013	5.75	0.7073	36.6
CO-23	252	647.39	253	646.89	158.8	0.003	10.0	0.013	2.56	0.7383	66.7
CO-24	253	646.89	254	619.55	3,440.3	0.008	10.0	0.013	3.72	0.7383	65.9
CO-25	230	648.07	412	638.43	266.7	0.036	10.0	0.013	5.40	0.3814	45.8
CO-26	412	638.43	237	637.60	309.3	0.003	10.0	0.013	2.10	0.3814	49.6
CO-27	229	656.66	230	648.07	315.5	0.027	10.0	0.013	3.83	0.1654	33.4
CO-28	255	627.08	254	619.55	590.6	0.013	8.0	0.013	1.50	0.0158	52.0
CO-29	228	663.43	229	656.66	460.3	0.015	10.0	0.013	3.08	0.1654	23.6
CO-30	256	640.84	326	620.64	295.6	0.068	8.0	0.013	4.91	0.1170	31.2

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-31	227	668.10	228	663.43	339.0	0.014	10.0	0.013	3.01	0.1654	23.8
CO-32	257	670.87	256	640.84	980.6	0.031	8.0	0.013	2.20	0.0202	20.6
CO-33	226	668.49	227	668.10	100.5	0.004	10.0	0.013	1.92	0.1654	27.8
CO-34	258	648.16	256	640.84	303.2	0.024	8.0	0.013	3.14	0.0898	27.4
CO-35	225	669.14	226	668.49	136.6	0.005	8.0	0.013	2.04	0.1487	36.3
CO-36	259	652.60	258	648.16	309.8	0.014	8.0	0.013	2.18	0.0484	22.1
CO-37	224	669.80	225	669.14	134.9	0.005	8.0	0.013	2.00	0.1338	34.8
CO-38	260	673.84	259	652.60	1,053.0	0.020	8.0	0.013	2.30	0.0387	17.6
CO-39	223	684.76	224	669.80	689.2	0.022	6.0	0.013	1.91	0.0167	30.3
CO-40	260	673.84	261	696.00	818.6	0.027	8.0	0.013	1.99	0.0167	13.7
CO-41	262	677.53	258	648.16	1,100.3	0.027	8.0	0.013	2.50	0.0370	20.9
CO-42	222	676.80	226	668.49	423.1	0.020	8.0	0.013	1.75	0.0158	23.6
CO-43	263	658.54	264	634.66	516.9	0.046	8.0	0.013	3.12	0.0405	18.7
CO-44	221	683.02	222	676.80	213.6	0.029	8.0	0.013	1.80	0.0114	9.8
CO-45	265	665.52	264	634.66	750.4	0.041	8.0	0.013	2.12	0.0132	15.0
CO-46	220	688.63	221	683.02	487.0	0.012	8.0	0.013	1.20	0.0088	8.4
CO-47	266	628.22	264	634.66	293.0	0.022	8.0	0.013	2.66	0.0572	23.1
CO-48	219	689.42	220	688.63	193.8	0.004	6.0	0.013	0.54	0.0018	8.3
CO-49	267	643.95	266	628.22	481.0	0.033	8.0	0.013	2.44	0.0273	19.9
CO-50	218	670.90	224	669.80	266.6	0.004	8.0	0.013	1.81	0.1153	33.1
CO-51	268	647.43	267	643.95	694.3	0.005	8.0	0.013	1.15	0.0194	13.4
CO-52	217	687.85	218	670.90	698.4	0.024	6.0	0.013	2.02	0.0176	29.8
CO-53	269	646.31	270	617.80	581.9	0.049	8.0	0.013	2.30	0.0141	52.4
CO-54	272	618.69	271	652.34	1,548.7	0.022	8.0	0.013	2.41	0.0414	57.1
CO-55	216	672.00	218	670.90	232.2	0.005	8.0	0.013	1.79	0.0942	30.5
CO-56	254	619.55	272	618.69	296.6	0.003	12.0	0.013	2.65	0.8800	63.4
CO-57	215	690.00	216	672.00	860.3	0.021	8.0	0.013	1.76	0.0150	19.3
CO-58	272	618.69	270	617.80	309.2	0.003	12.0	0.013	2.67	0.9258	63.9
CO-59	270	617.80	273	615.97	565.7	0.003	12.0	0.013	2.81	0.9504	64.6
CO-60	214	673.10	216	672.00	245.5	0.004	8.0	0.013	1.65	0.0757	27.0

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-61	274	640.17	273	615.97	796.6	0.030	8.0	0.013	1.95	0.0141	54.5
CO-62	213	678.39	214	673.10	185.1	0.029	8.0	0.013	3.13	0.0722	24.3
CO-63	273	615.97	275	614.51	486.5	0.003	12.0	0.013	2.74	0.9759	66.3
CO-64	212	680.00	213	678.39	304.2	0.005	8.0	0.013	1.71	0.0695	23.2
CO-65	266	628.22	275	614.51	553.2	0.025	8.0	0.013	3.19	0.0915	62.9
CO-66	211	686.00	212	680.00	267.7	0.022	8.0	0.013	1.68	0.0123	16.5
CO-67	275	614.51	276	613.48	291.9	0.004	12.0	0.013	2.98	1.0710	66.8
CO-68	210	688.87	211	686.00	157.2	0.018	6.0	0.013	1.12	0.0035	9.8
CO-69	276	613.48	277	610.89	710.4	0.004	12.0	0.013	3.04	1.0965	61.3
CO-70	209	687.63	211	686.00	83.5	0.020	8.0	0.013	1.09	0.0035	7.1
CO-71	278	622.17	277	610.89	673.5	0.017	8.0	0.013	1.60	0.0141	46.8
CO-72	208	681.50	212	680.00	253.8	0.006	8.0	0.013	1.65	0.0537	21.9
CO-73	279	623.67	276	613.48	406.8	0.025	8.0	0.013	1.62	0.0097	54.1
CO-74	277	610.89	280	606.77	365.3	0.011	12.0	0.013	4.70	1.1106	59.1
CO-77	282	673.59	249	672.11	326.8	0.005	8.0	0.013	0.87	0.0088	30.5
CO-78	283	705.91	247	684.09	1,330.0	0.016	8.0	0.013	2.11	0.0370	34.2
CO-81	207	626.60	426	612.04	307.7	0.047	8.0	0.013	5.53	0.2754	36.5
CO-82	284	699.50	242	697.69	287.2	0.006	8.0	0.013	1.78	0.0651	33.3
CO-83	206	630.70	207	626.60	911.8	0.004	8.0	0.013	1.08	0.0176	29.1
CO-85	345	614.98	425	609.57	1,421.9	0.004	30.0	0.013	3.63	2.2713	25.2
CO-86	289	661.54	17	660.12	285.9	0.005	8.0	0.013	1.62	0.0634	28.6
CO-87	204	627.53	345	626.00	36.4	0.042	8.0	0.013	4.90	0.2086	32.0
CO-88	286	677.74	17	660.12	2,621.1	0.007	8.0	0.013	1.85	0.0678	28.2
CO-89	202	640.44	321	639.66	250.2	0.003	15.0	0.013	3.09	1.4406	56.1
CO-90	201	628.50	207	626.60	240.3	0.008	8.0	0.013	2.85	0.2578	44.9
CO-91	285	665.28	287	679.40	594.4	0.024	8.0	0.013	1.55	0.0088	11.3
CO-92	200	629.00	201	628.50	107.3	0.005	8.0	0.013	2.28	0.2314	45.1
CO-93	288	675.31	289	661.54	1,167.4	0.012	8.0	0.013	1.61	0.0220	17.7
CO-94	199	629.51	200	629.00	270.2	0.002	8.0	0.013	1.56	0.1954	50.2
CO-95	289	661.54	290	662.79	297.0	0.004	8.0	0.013	1.35	0.0414	21.1

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-96	198	630.48	199	629.51	271.9	0.004	8.0	0.013	1.92	0.1734	48.3
CO-97	197	631.95	198	630.48	272.7	0.005	8.0	0.013	1.47	0.0405	30.1
CO-98	285	665.28	291	664.04	295.7	0.004	8.0	0.013	1.15	0.0238	15.9
CO-99	196	653.00	197	631.95	1,538.4	0.014	8.0	0.013	1.98	0.0370	17.1
CO-100	291	664.04	290	662.79	284.2	0.004	8.0	0.013	1.28	0.0326	18.2
CO-101	292	647.93	239	647.00	246.9	0.004	10.0	0.013	2.00	0.1999	32.7
CO-102	293	680.00	294	675.28	929.8	0.005	8.0	0.013	1.17	0.0202	15.7
CO-103	295	677.87	294	675.28	357.4	0.007	8.0	0.013	1.12	0.0114	13.7
CO-104	294	675.28	296	674.16	282.6	0.004	8.0	0.013	1.27	0.0361	18.9
CO-105	297	679.94	296	679.00	235.5	0.004	8.0	0.013	0.75	0.0062	7.2
CO-106	195	645.00	198	630.48	884.8	0.016	8.0	0.013	3.07	0.1320	36.7
CO-107	296	674.16	298	673.27	174.1	0.005	8.0	0.013	1.49	0.0458	20.6
CO-108	299	680.79	298	680.00	199.7	0.004	8.0	0.013	0.63	0.0035	5.5
CO-109	194	656.00	195	645.00	692.6	0.016	8.0	0.013	2.39	0.0581	25.8
CO-110	298	673.27	300	672.05	278.6	0.004	8.0	0.013	1.48	0.0537	23.5
CO-111	193	650.50	195	645.00	914.5	0.006	8.0	0.013	1.63	0.0510	25.4
CO-112	301	683.51	300	672.05	815.0	0.014	8.0	0.013	1.47	0.0132	17.4
CO-113	300	672.05	302	667.28	751.5	0.006	8.0	0.013	1.94	0.0871	28.7
CO-114	302	667.28	303	683.19	672.1	0.024	8.0	0.013	2.07	0.0229	22.4
CO-115	192	635.34	199	629.51	829.0	0.007	8.0	0.013	1.35	0.0220	33.5
CO-116	302	667.28	304	684.74	1,027.1	0.017	8.0	0.013	2.01	0.0299	23.3
CO-117	302	667.28	322	651.66	966.7	0.016	8.0	0.013	3.11	0.1399	28.7
CO-118	191	630.32	201	628.50	230.8	0.008	8.0	0.013	1.42	0.0229	28.4
CO-119	305	678.88	362	677.92	177.8	0.005	12.0	0.013	3.37	0.8862	51.9
CO-120	361	675.46	306	663.81	1,437.1	0.008	12.0	0.013	3.97	0.9275	51.1
CO-121	190	624.00	189	620.00	256.5	0.016	18.0	0.013	5.87	1.7784	43.1
CO-122	306	663.81	15	656.95	666.8	0.010	12.0	0.013	4.36	0.9504	52.7
CO-123	307	665.85	15	656.95	1,427.9	0.006	8.0	0.013	1.93	0.0871	53.2
CO-124	308	677.81	307	665.85	849.6	0.014	8.0	0.013	1.65	0.0194	18.6
CO-125	188	625.00	190	624.00	149.2	0.007	18.0	0.013	4.33	1.7730	41.9

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-126	309	668.86	307	665.85	582.4	0.005	8.0	0.013	1.40	0.0361	21.3
CO-127	187	625.80	188	625.00	137.1	0.006	8.0	0.013	2.68	0.3161	73.0
CO-128	186	640.10	187	625.80	303.8	0.047	8.0	0.013	5.72	0.3125	50.3
CO-129	185	645.00	186	640.10	598.4	0.008	8.0	0.013	3.00	0.2958	48.1
CO-130	310	665.47	306	663.81	543.5	0.003	8.0	0.013	0.76	0.0088	43.5
CO-131	184	648.00	185	645.00	217.1	0.014	8.0	0.013	3.56	0.2764	46.6
CO-132	183	649.00	184	648.00	189.0	0.005	8.0	0.013	2.50	0.2738	47.3
CO-133	182	650.00	183	649.00	389.0	0.003	8.0	0.013	1.87	0.2606	54.1
CO-134	311	666.46	41	639.00	1,530.1	0.018	8.0	0.013	2.46	0.0554	22.1
CO-135	181	651.00	182	650.00	287.4	0.003	8.0	0.013	2.06	0.2404	55.2
CO-136	180	661.00	181	651.00	687.9	0.015	8.0	0.013	3.48	0.2386	46.8
CO-137	179	665.00	180	661.00	388.6	0.010	8.0	0.013	3.03	0.2263	41.8
CO-138	178	666.00	179	665.00	38.0	0.026	8.0	0.013	4.20	0.2174	40.8
CO-139	177	668.00	178	666.00	336.3	0.006	8.0	0.013	2.45	0.2174	41.0
CO-140	176	669.00	177	668.00	368.4	0.003	8.0	0.013	0.81	0.0123	26.7
CO-141	230	648.07	313	649.00	21.7	0.043	8.0	0.013	4.98	0.2160	45.4
CO-142	314	656.00	313	649.00	339.8	0.021	8.0	0.013	3.54	0.1620	37.4
CO-143	315	658.50	314	656.00	143.4	0.017	8.0	0.013	2.96	0.1080	31.4
CO-144	175	679.19	176	669.00	814.3	0.013	8.0	0.013	1.36	0.0114	10.4
CO-145	316	664.00	315	658.50	272.6	0.020	8.0	0.013	2.54	0.0540	23.9
CO-146	174	645.64	186	640.10	667.4	0.008	6.0	0.013	1.22	0.0114	39.0
CO-147	317	670.00	315	658.50	404.5	0.028	8.0	0.013	2.86	0.0540	23.9
CO-148	173	626.80	188	625.00	365.3	0.005	12.0	0.013	3.60	1.4569	69.2
CO-149	318	663.00	314	656.00	396.1	0.018	8.0	0.013	2.43	0.0540	27.2
CO-150	168	628.50	173	626.80	459.3	0.004	12.0	0.013	3.14	1.4481	79.8
CO-151	313	649.00	319	667.00	517.4	0.035	8.0	0.013	3.08	0.0540	30.0
CO-152	172	639.48	168	628.50	391.1	0.028	6.0	0.013	2.21	0.0203	58.6
CO-154	171	646.05	172	639.48	354.8	0.019	6.0	0.013	1.71	0.0141	15.8
CO-155	354	650.64	320	648.58	322.7	0.006	12.0	0.013	3.78	1.0965	56.6
CO-156	15	656.95	354	650.64	360.7	0.017	12.0	0.013	5.44	1.0454	54.8

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-157	170	653.00	171	646.05	238.8	0.029	6.0	0.013	1.75	0.0088	12.8
CO-158	321	639.66	203	639.30	105.3	0.003	15.0	0.013	3.20	1.4406	51.5
CO-159	169	665.64	170	653.00	652.8	0.019	6.0	0.013	1.42	0.0070	10.7
CO-160	292	647.93	322	651.66	394.9	0.009	10.0	0.013	2.51	0.1399	28.3
CO-161	203	639.30	323	630.00	377.8	0.025	15.0	0.013	6.63	1.4424	39.8
CO-162	167	629.20	168	628.50	367.2	0.002	12.0	0.013	2.81	1.4279	92.7
CO-163	323	619.50	345	614.98	1,296.4	0.003	30.0	0.013	3.42	2.0628	24.8
CO-164	166	629.50	167	629.20	167.0	0.002	12.0	0.013	2.79	1.4172	100.0
CO-165	43	630.25	324	634.24	897.8	0.004	8.0	0.013	1.89	0.1232	37.9
CO-166	165	630.00	166	629.50	153.0	0.003	12.0	0.013	2.79	1.4172	100.0
CO-167	55	665.37	45	651.86	315.9	0.043	8.0	0.013	2.56	0.0229	18.8
CO-168	46	659.46	324	634.24	889.1	0.028	8.0	0.013	3.16	0.0748	28.2
CO-169	325	662.79	263	658.54	1,005.0	0.004	8.0	0.013	1.20	0.0273	16.4
CO-170	162	634.50	163	633.00	334.4	0.004	12.0	0.013	2.58	1.3119	100.0
CO-171	326	620.64	254	619.55	251.9	0.004	8.0	0.013	1.87	0.1223	63.3
CO-172	252	647.39	334	656.25	262.4	0.034	8.0	0.013	5.09	0.3150	72.2
CO-173	161	636.92	160	635.27	354.0	0.005	8.0	0.013	1.22	0.0256	18.1
CO-174	327	660.05	328	678.10	417.1	0.043	8.0	0.013	3.44	0.0607	34.9
CO-175	158	630.50	165	630.00	200.7	0.002	12.0	0.013	2.79	1.4172	100.0
CO-176	328	678.10	329	695.12	949.3	0.018	8.0	0.013	2.42	0.0528	20.2
CO-177	164	631.00	158	630.50	187.5	0.003	12.0	0.013	2.75	1.3977	100.0
CO-178	329	695.12	330	699.70	756.9	0.006	8.0	0.013	1.45	0.0343	17.8
CO-179	159	670.11	158	630.50	1,038.3	0.038	8.0	0.013	2.18	0.0159	55.3
CO-180	330	699.70	331	705.20	374.2	0.015	8.0	0.013	1.65	0.0185	13.8
CO-181	157	674.92	156	674.17	193.2	0.004	6.0	0.013	0.53	0.0018	9.6
CO-182	331	705.20	332	709.51	705.8	0.006	8.0	0.013	1.03	0.0106	10.3
CO-183	156	674.17	155	667.41	335.7	0.020	6.0	0.013	1.66	0.0114	11.6
CO-184	333	708.81	248	682.77	2,225.1	0.012	8.0	0.013	2.08	0.0519	35.4
CO-185	155	667.41	154	663.28	201.3	0.021	6.0	0.013	1.67	0.0114	18.4
CO-186	335	657.00	334	656.25	142.1	0.005	8.0	0.013	2.58	0.3150	51.1

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-187	153	631.50	164	631.00	162.2	0.003	12.0	0.013	2.75	1.3977	100.0
CO-188	335	657.00	327	660.05	174.6	0.017	8.0	0.013	4.02	0.3150	51.1
CO-189	163	633.00	153	631.50	333.0	0.005	12.0	0.013	2.66	1.3491	100.0
CO-190	336	677.25	327	660.05	2,121.0	0.008	8.0	0.013	2.87	0.2543	46.4
CO-191	154	663.28	153	631.50	943.1	0.034	8.0	0.013	2.89	0.0450	59.0
CO-192	152	676.00	156	674.17	322.2	0.006	6.0	0.013	1.01	0.0097	12.9
CO-193	338	693.00	339	683.00	782.3	0.013	8.0	0.013	1.65	0.0220	34.5
CO-194	151	675.20	154	663.28	1,070.0	0.011	8.0	0.013	1.48	0.0176	14.6
CO-195	339	683.00	340	688.00	493.5	0.010	8.0	0.013	3.48	0.3925	55.8
CO-196	150	678.72	149	655.42	1,104.9	0.021	6.0	0.013	2.02	0.0212	20.0
CO-197	339	683.00	341	679.33	137.1	0.027	8.0	0.013	5.06	0.4145	73.6
CO-198	149	655.42	163	633.00	909.9	0.025	6.0	0.013	2.46	0.0336	61.2
CO-199	341	679.33	305	678.88	140.1	0.003	12.0	0.013	2.76	0.8862	55.9
CO-200	22	651.05	342	658.95	617.7	0.013	8.0	0.013	2.23	0.0600	22.4
CO-201	41	639.00	39	622.00	438.3	0.039	8.0	0.013	3.61	0.0810	26.9
CO-202	148	680.50	147	659.89	736.3	0.028	6.0	0.013	1.90	0.0123	15.3
CO-203	147	659.89	146	650.80	495.2	0.018	6.0	0.013	1.91	0.0203	18.5
CO-204	146	650.80	145	646.00	329.3	0.015	6.0	0.013	1.90	0.0264	21.8
CO-205	145	646.00	162	634.50	453.5	0.025	6.0	0.013	2.57	0.0380	61.9
CO-206	346	689.42	340	688.00	142.3	0.010	8.0	0.013	3.46	0.3925	52.6
CO-207	347	698.78	346	689.42	937.7	0.010	8.0	0.013	1.72	0.0334	35.2
CO-208	144	672.16	143	662.41	374.8	0.026	6.0	0.013	1.49	0.0062	11.9
CO-209	348	692.79	346	689.42	337.1	0.010	8.0	0.013	3.39	0.3590	53.7
CO-210	143	662.41	142	651.77	460.6	0.023	6.0	0.013	1.85	0.0141	15.2
CO-211	349	697.65	348	692.79	485.6	0.010	8.0	0.013	2.17	0.0730	37.8
CO-212	142	651.77	141	645.63	435.8	0.014	6.0	0.013	1.66	0.0176	17.7
CO-213	350	702.37	349	697.65	472.0	0.010	8.0	0.013	1.77	0.0370	19.6
CO-214	141	645.63	161	636.92	486.9	0.018	6.0	0.013	2.02	0.0256	19.7
CO-215	351	708.52	350	702.37	615.0	0.010	8.0	0.013	1.77	0.0370	15.5
CO-216	140	643.95	160	635.27	617.3	0.014	6.0	0.013	2.07	0.0370	25.9

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-217	352	706.17	349	697.65	867.6	0.010	8.0	0.013	1.63	0.0282	18.6
CO-218	139	661.44	140	643.95	789.8	0.022	6.0	0.013	2.40	0.0352	23.2
CO-219	138	669.70	139	661.44	345.6	0.024	6.0	0.013	2.14	0.0220	20.5
CO-220	137	680.00	138	669.70	508.1	0.020	6.0	0.013	1.87	0.0167	16.8
CO-221	353	694.00	348	692.79	652.5	0.002	8.0	0.013	1.66	0.2763	60.8
CO-222	136	684.94	137	680.00	379.1	0.013	6.0	0.013	1.32	0.0088	13.5
CO-223	355	665.60	354	650.64	1,778.9	0.008	8.0	0.013	1.77	0.0449	50.7
CO-224	135	679.62	134	653.27	1,335.1	0.020	6.0	0.013	1.38	0.0062	16.3
CO-225	134	653.27	133	644.00	562.7	0.016	6.0	0.013	2.18	0.0361	21.0
CO-226	133	644.00	12th Street LS (Downtown)	622.00	549.6	0.040	6.0	0.013	2.98	0.0361	19.2
CO-227	356	667.08	320	648.58	2,402.2	0.008	8.0	0.013	2.04	0.0801	55.3
CO-228	132	627.15	12th Street LS (Downtown)	622.00	244.8	0.021	6.0	0.013	2.74	0.0592	26.3
CO-229	357	669.69	358	641.44	1,728.6	0.016	8.0	0.013	2.38	0.0554	60.0
CO-230	131	628.00	132	627.15	405.8	0.002	6.0	0.013	1.20	0.0592	35.6
CO-231	130	629.50	131	628.00	197.5	0.008	8.0	0.013	1.83	0.0574	25.6
CO-232	129	630.50	130	629.50	383.8	0.003	8.0	0.013	1.26	0.0574	23.0
CO-233	128	631.00	129	630.50	153.7	0.003	8.0	0.013	1.18	0.0359	22.4
CO-234	360	665.00	359	651.40	1,183.8	0.011	8.0	0.013	1.61	0.0229	25.4
CO-235	127	632.00	128	631.00	351.8	0.003	8.0	0.013	1.08	0.0305	18.8
CO-236	362	677.92	361	675.46	471.7	0.005	12.0	0.013	3.34	0.8994	51.6
CO-237	126	633.00	127	632.00	344.4	0.003	8.0	0.013	1.05	0.0269	17.7
CO-238	5	689.00	363	715.00	673.2	0.039	8.0	0.013	2.42	0.0211	29.6
CO-239	125	634.00	126	633.00	179.5	0.006	8.0	0.013	0.99	0.0108	13.3
CO-240	364	712.00	2	688.00	890.5	0.027	8.0	0.013	3.12	0.0766	33.7
CO-241	124	634.50	125	634.00	212.1	0.002	8.0	0.013	0.66	0.0072	9.5

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Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-242	365	714.00	364	712.00	276.5	0.007	8.0	0.013	1.83	0.0598	22.2
CO-243	123	635.37	126	633.00	321.6	0.007	8.0	0.013	1.05	0.0090	12.6
CO-244	366	715.00	365	714.00	306.0	0.003	8.0	0.013	1.03	0.0220	17.9
CO-245	122	635.00	127	632.00	178.5	0.017	8.0	0.013	0.84	0.0018	11.0
CO-246	367	726.00	366	715.00	807.7	0.014	8.0	0.013	1.63	0.0194	13.4
CO-247	121	635.41	127	632.00	173.3	0.020	8.0	0.013	0.89	0.0018	11.0
CO-248	368	700.00	7	694.00	460.6	0.013	8.0	0.013	2.16	0.0528	30.8
CO-249	120	635.00	128	631.00	150.1	0.027	8.0	0.013	1.40	0.0054	12.7
CO-250	369	718.00	368	700.00	841.0	0.021	8.0	0.013	1.88	0.0185	15.5
CO-251	119	634.00	126	633.00	500.8	0.002	8.0	0.013	0.62	0.0072	13.5
CO-252	370	713.00	368	700.00	1,071.5	0.012	8.0	0.013	1.70	0.0255	16.5
CO-253	118	627.79	117	626.32	289.7	0.005	8.0	0.013	0.55	0.0018	3.9
CO-254	371	700.00	7	694.00	1,023.4	0.006	8.0	0.013	1.99	0.1038	35.2
CO-255	117	626.32	116	618.45	198.6	0.040	6.0	0.013	1.19	0.0018	13.4
CO-256	372	711.50	371	700.00	310.2	0.037	8.0	0.013	2.85	0.0387	22.4
CO-257	115	621.81	116	618.45	445.2	0.008	6.0	0.013	1.54	0.0283	21.1
CO-258	373	723.00	372	711.50	1,099.7	0.010	8.0	0.013	1.56	0.0229	14.7
CO-259	114	623.31	115	621.81	233.6	0.006	6.0	0.013	1.33	0.0213	19.4
CO-260	374	713.00	372	711.50	582.4	0.003	8.0	0.013	0.80	0.0123	14.3
CO-261	113	628.33	114	623.31	342.6	0.015	6.0	0.013	1.41	0.0097	15.1
CO-262	421	703.00	371	700.00	712.0	0.004	8.0	0.013	1.44	0.0510	24.8
CO-263	375	728.00	421	703.00	1,201.3	0.021	8.0	0.013	2.42	0.0440	19.6
CO-264	1	698.09	376	696.53	355.3	0.004	8.0	0.013	1.77	0.1003	33.9
CO-265	112	615.01	111	611.01	237.9	0.017	6.0	0.013	1.59	0.0123	15.7
CO-266	420	703.53	376	696.53	605.5	0.012	8.0	0.013	2.28	0.0730	30.5
CO-267	377	706.51	420	703.53	298.4	0.010	8.0	0.013	1.98	0.0537	21.3
CO-268	111	611.01	110	608.70	275.6	0.008	6.0	0.013	1.48	0.0220	25.3
CO-269	378	713.85	377	706.51	733.8	0.010	8.0	0.013	1.64	0.0282	16.9
CO-270	110	608.70	109	604.00	344.3	0.014	6.0	0.013	2.48	0.0705	30.1
CO-271	379	714.15	377	706.51	764.5	0.010	8.0	0.013	1.59	0.0255	16.6

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
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Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-272	380	719.51	378	713.85	565.7	0.010	8.0	0.013	1.11	0.0079	10.8
CO-273	109	604.00	Meadowlands LS	575.00	387.8	0.075	6.0	0.013	4.51	0.0705	25.4
CO-275	116	618.45	108	614.00	188.1	0.024	6.0	0.013	2.38	0.0318	23.3
CO-276	376	696.53	381	694.75	339.3	0.005	8.0	0.013	2.21	0.1734	43.5
CO-277	108	614.00	110	608.70	259.6	0.020	6.0	0.013	2.45	0.0415	28.8
CO-278	381	694.75	382	703.00	251.3	0.033	8.0	0.013	2.76	0.0405	33.0
CO-279	107	614.58	110	608.70	315.6	0.019	6.0	0.013	1.40	0.0070	21.4
CO-280	419	707.83	382	703.00	385.6	0.013	8.0	0.013	1.97	0.0405	15.8
CO-281	383	719.54	419	707.83	1,171.0	0.010	8.0	0.013	1.67	0.0299	15.8
CO-282	418	708.77	381	694.75	473.6	0.030	8.0	0.013	2.71	0.0422	33.2
CO-283	384	719.84	418	708.77	1,106.7	0.010	8.0	0.013	1.65	0.0290	15.9
CO-284	385	685.81	341	679.33	484.7	0.013	12.0	0.013	3.96	0.4717	48.0
CO-285	105	622.00	104	617.00	414.5	0.012	8.0	0.013	1.22	0.0088	8.6
CO-286	386	687.25	385	685.81	641.4	0.002	12.0	0.013	2.07	0.4717	40.8
CO-287	104	617.00	103	615.00	206.6	0.010	8.0	0.013	1.26	0.0123	13.3
CO-288	387	688.61	386	687.25	444.9	0.003	12.0	0.013	2.32	0.4717	44.0
CO-289	103	615.00	102	609.00	1,139.8	0.005	8.0	0.013	1.42	0.0370	16.8
CO-290	388	693.02	390	692.34	257.6	0.003	12.0	0.013	2.20	0.4717	51.2
CO-291	102	609.00	101	608.00	117.7	0.008	8.0	0.013	1.68	0.0370	16.3
CO-292	389	710.00	388	693.02	1,344.6	0.013	8.0	0.013	1.83	0.0308	40.3
CO-293	101	608.00	100	607.00	152.9	0.007	8.0	0.013	1.53	0.0370	19.8
CO-294	100	607.00	99	604.00	533.6	0.006	8.0	0.013	1.75	0.0695	24.3
CO-295	99	604.00	98	600.83	341.8	0.009	8.0	0.013	2.24	0.0889	30.4
CO-296	390	692.34	387	692.22	161.6	0.001	12.0	0.013	1.36	0.4717	47.0
CO-297	98	600.83	97	600.00	397.2	0.002	8.0	0.013	1.34	0.0959	31.5
CO-298	391	695.51	388	693.02	1,082.9	0.002	12.0	0.013	2.05	0.4409	43.9
CO-299	97	600.00	96	597.00	421.0	0.007	8.0	0.013	2.14	0.1047	28.3
CO-300	392	696.28	391	695.51	286.3	0.003	12.0	0.013	2.14	0.4136	42.3
CO-301	96	597.00	95	592.25	458.7	0.010	8.0	0.013	2.50	0.1144	27.3

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-302	393	696.97	392	696.28	250.7	0.003	12.0	0.013	2.13	0.3942	40.0
CO-303	95	592.25	Meadowlands LS	575.00	518.3	0.033	8.0	0.013	3.78	0.1144	24.1
CO-304	394	697.75	393	696.97	281.7	0.003	12.0	0.013	2.11	0.3749	38.7
CO-305	106	619.36	94	614.07	439.9	0.012	6.0	0.013	1.59	0.0185	17.9
CO-306	395	700.29	394	697.75	850.9	0.003	10.0	0.013	1.69	0.1461	37.6
CO-307	94	614.07	100	607.00	458.6	0.015	6.0	0.013	1.92	0.0255	25.2
CO-308	396	702.14	395	700.29	698.9	0.003	10.0	0.013	1.34	0.0766	25.7
CO-309	397	702.95	396	702.14	269.9	0.003	10.0	0.013	1.34	0.0651	20.7
CO-310	93	617.16	99	604.00	836.4	0.016	6.0	0.013	1.68	0.0158	24.6
CO-311	92	615.00	91	604.57	476.8	0.022	6.0	0.013	1.43	0.0062	10.7
CO-312	398	731.00	397	702.95	849.2	0.033	8.0	0.013	2.36	0.0238	18.7
CO-313	91	604.57	96	597.00	216.8	0.035	6.0	0.013	1.92	0.0097	25.2
CO-314	90	635.00	89	634.00	343.2	0.003	8.0	0.013	1.81	0.1849	41.7
CO-315	399	707.85	395	700.29	435.5	0.017	8.0	0.013	2.60	0.0695	29.6
CO-316	89	634.00	88	630.05	411.2	0.010	8.0	0.013	2.80	0.1849	35.3
CO-317	88	630.05	87	625.84	523.1	0.008	8.0	0.013	2.62	0.1849	36.1
CO-318	400	709.00	399	707.85	271.3	0.004	8.0	0.013	1.58	0.0695	23.7
CO-319	87	625.84	189	620.00	375.6	0.016	8.0	0.013	3.32	0.1849	68.3
CO-320	86	669.00	179	665.00	760.4	0.005	6.0	0.013	0.73	0.0036	31.5
CO-321	85	675.00	177	668.00	890.7	0.008	8.0	0.013	2.67	0.2051	40.3
CO-322	401	723.00	394	697.75	1,998.2	0.013	8.0	0.013	3.22	0.2182	48.9
CO-323	84	682.00	85	675.00	564.1	0.012	8.0	0.013	3.09	0.1910	38.5
CO-324	402	741.00	401	723.00	1,418.8	0.013	8.0	0.013	2.46	0.0845	32.6
CO-325	83	686.00	84	682.00	209.2	0.019	8.0	0.013	2.57	0.0598	29.3
CO-326	403	744.00	402	741.00	790.9	0.004	8.0	0.013	1.27	0.0378	21.9
CO-327	82	686.50	83	686.00	151.9	0.003	8.0	0.013	1.36	0.0572	22.5
CO-328	404	755.00	403	744.00	836.8	0.013	8.0	0.013	1.61	0.0194	15.3
CO-329	81	687.00	82	686.50	133.5	0.004	8.0	0.013	1.39	0.0519	23.2
CO-330	405	753.00	403	744.00	588.3	0.015	8.0	0.013	1.66	0.0185	15.2

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-331	80	688.00	83	686.00	320.5	0.006	8.0	0.013	0.67	0.0026	12.8
CO-332	406	732.00	401	723.00	1,155.9	0.008	8.0	0.013	2.36	0.1338	35.9
CO-333	407	736.00	406	732.00	664.2	0.006	8.0	0.013	2.02	0.1056	29.8
CO-334	78	661.50	79	659.00	324.9	0.008	8.0	0.013	2.26	0.1153	29.5
CO-335	408	737.00	407	736.00	270.9	0.004	8.0	0.013	1.44	0.0598	26.1
CO-336	77	662.00	78	661.50	50.3	0.010	8.0	0.013	2.44	0.1100	28.7
CO-337	409	757.00	408	737.00	1,140.8	0.018	8.0	0.013	2.12	0.0343	19.8
CO-338	76	665.00	77	662.00	485.5	0.006	8.0	0.013	1.54	0.0405	22.9
CO-339	410	755.00	408	737.00	1,141.4	0.016	8.0	0.013	1.86	0.0255	18.7
CO-340	75	669.00	76	665.00	475.3	0.008	8.0	0.013	1.63	0.0343	16.5
CO-341	411	740.00	397	702.95	1,072.5	0.035	8.0	0.013	2.83	0.0414	20.8
CO-342	74	672.00	75	669.00	401.4	0.007	8.0	0.013	1.46	0.0273	14.8
CO-346	413	711.00	394	697.75	639.1	0.021	8.0	0.013	1.56	0.0106	32.9
CO-347	414	705.00	393	696.97	610.2	0.013	8.0	0.013	1.61	0.0194	35.3
CO-348	415	702.50	392	696.28	607.9	0.010	8.0	0.013	1.47	0.0194	36.3
CO-349	73	698.00	72	696.00	255.4	0.008	6.0	0.013	0.83	0.0035	9.6
CO-350	416	715.47	4	703.96	1,151.0	0.010	8.0	0.013	1.77	0.0370	17.8
CO-351	72	696.00	71	682.00	576.3	0.024	6.0	0.013	1.68	0.0097	13.9
CO-352	417	712.02	3	700.75	1,127.0	0.010	8.0	0.013	1.73	0.0334	17.9
CO-353	71	682.00	70	674.00	390.1	0.021	8.0	0.013	1.89	0.0202	13.3
CO-354	422	639.60	203	639.30	133.7	0.002	8.0	0.013	0.42	0.0018	67.0
CO-355	70	674.00	69	672.22	263.7	0.007	8.0	0.013	1.45	0.0299	17.8
CO-356	423	643.00	424	625.81	1,116.5	0.015	8.0	0.013	2.83	0.1080	47.1
CO-357	205	613.90	425	612.00	43.1	0.044	8.0	0.013	4.23	0.1188	23.9
CO-358	426	606.67	427	605.83	294.4	0.003	30.0	0.013	3.43	2.6656	29.4
CO-359	427	605.83	428	604.98	300.8	0.003	30.0	0.013	3.41	2.6656	28.2
CO-360	68	691.50	69	672.22	1,223.9	0.016	6.0	0.013	1.73	0.0176	22.0
CO-361	428	604.98	429	604.14	212.1	0.004	30.0	0.013	3.85	2.6656	30.0
CO-362	429	604.14	430	603.75	203.9	0.002	30.0	0.013	2.97	2.6656	35.4
CO-363	67	686.00	66	671.00	1,226.7	0.012	6.0	0.013	1.59	0.0176	23.0

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-364	430	603.75	431	603.57	84.1	0.002	30.0	0.013	3.30	3.3728	39.4
CO-365	431	603.57	432	603.16	317.5	0.001	30.0	0.013	2.74	3.3728	40.8
CO-366	69	672.22	66	671.00	273.5	0.004	8.0	0.013	1.46	0.0502	21.7
CO-367	66	671.00	77	662.00	275.9	0.033	8.0	0.013	3.24	0.0695	25.4
CO-368	432	603.16	433	602.41	556.6	0.001	30.0	0.013	2.79	3.3728	35.4
CO-369	433	602.41	Justin Treatment Plant	596.00	189.0	0.034	30.0	0.013	8.83	3.3728	24.0
CO-370	65	684.00	208	681.50	426.9	0.006	8.0	0.013	1.34	0.0273	17.4
CO-372(1)	438	670.33	460	664.17	1,000.5	0.006	21.0	0.013	3.06	0.6204	19.4
CO-372(2)	460	664.17	435	635.85	4,596.4	0.006	21.0	0.013	3.07	0.6204	19.4
CO-373	64	686.50	65	684.00	448.6	0.006	8.0	0.013	1.14	0.0167	13.1
CO-374	435	635.85	436	628.55	1,213.7	0.006	30.0	0.013	2.90	0.6204	13.7
CO-375	63	691.00	64	686.50	258.3	0.017	8.0	0.013	1.20	0.0053	8.9
CO-376	436	628.55	437	627.00	630.3	0.002	30.0	0.013	2.12	0.6204	13.7
CO-377	62	688.00	64	686.50	95.2	0.016	8.0	0.013	0.82	0.0018	7.6
CO-378(1)	437	627.00	473	626.31	134.1	0.005	30.0	0.013	2.75	0.6204	12.5
CO-378(2)	473	626.31	323	619.50	1,317.2	0.005	30.0	0.013	2.75	0.6204	18.6
CO-379	61	691.00	60	686.00	484.7	0.010	8.0	0.013	1.24	0.0106	10.2
CO-380	240	702.58	337	706.45	884.6	0.004	8.0	0.013	1.74	0.0950	30.6
CO-381	60	686.00	59	683.50	313.1	0.008	8.0	0.013	1.35	0.0194	12.1
CO-382	280	606.77	Timberbrooks LS	606.50	58.8	0.005	12.0	0.013	3.34	1.1106	59.1
CO-383	59	683.50	208	681.50	258.1	0.008	8.0	0.013	1.39	0.0220	16.3
CO-384	439	682.54	441	675.45	178.5	0.040	15.0	0.013	6.15	0.6204	24.6
CO-385	441	675.45	438	670.33	345.8	0.015	15.0	0.013	4.34	0.6204	27.2
CO-386	58	689.97	60	686.00	174.0	0.023	8.0	0.013	0.94	0.0018	7.6
CO-387	440	686.12	439	682.54	300.9	0.012	15.0	0.013	4.02	0.6204	27.9
CO-388	57	681.00	56	668.31	413.5	0.031	8.0	0.013	1.83	0.0114	7.7
CO-390	56	668.31	55	665.37	237.4	0.012	8.0	0.013	1.35	0.0114	10.8

2024 City of Justin Wastewater Model Update.stsw
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CO-392	54	678.00	55	665.37	306.6	0.041	8.0	0.013	1.88	0.0088	10.3
CO-394	53	677.22	52	666.26	424.4	0.026	8.0	0.013	1.76	0.0123	10.1
CO-396	51	672.00	52	666.26	215.7	0.027	8.0	0.013	1.14	0.0026	7.6
CO-398	50	681.00	49	674.00	385.5	0.018	8.0	0.013	1.49	0.0106	9.3
CO-401	49	674.00	225	669.14	252.1	0.019	8.0	0.013	1.68	0.0141	22.9
CO-408	47	676.59	46	659.46	1,248.2	0.014	8.0	0.013	1.91	0.0326	19.3
CO-410	48	677.33	45	651.86	997.6	0.026	8.0	0.013	2.01	0.0185	18.2
CO-413	46	659.46	344	670.00	702.0	0.015	8.0	0.013	1.75	0.0220	17.9
CO-414	343	670.00	45	651.86	985.0	0.018	8.0	0.013	1.92	0.0238	18.9
CO-416	44	629.32	204	627.53	373.1	0.005	8.0	0.013	2.24	0.2086	41.3
CO-418	45	651.86	43	630.25	914.1	0.024	8.0	0.013	3.08	0.0854	33.8
CO-420	43	630.25	44	629.32	188.0	0.005	8.0	0.013	2.27	0.2086	42.9
CO-422	52	666.26	42	647.00	256.6	0.075	8.0	0.013	2.81	0.0167	8.6
CO-424	42	647.00	41	639.00	365.7	0.022	8.0	0.013	1.84	0.0167	17.5
CO-426	312	645.00	40	641.95	208.3	0.015	8.0	0.013	2.02	0.0361	14.7
CO-428	40	641.95	39	622.00	373.0	0.053	8.0	0.013	3.17	0.0361	22.8
CO-430	39	622.00	205	613.90	413.0	0.020	8.0	0.013	3.18	0.1188	25.9
CO-431	38	621.00	93	617.16	148.3	0.026	6.0	0.013	1.15	0.0026	10.7
CO-432	37	621.00	106	619.36	208.5	0.008	6.0	0.013	0.68	0.0018	10.9
CO-433	36	624.00	108	614.00	405.8	0.025	6.0	0.013	1.60	0.0079	17.8
CO-434	35	624.00	106	619.36	483.3	0.010	6.0	0.013	1.18	0.0088	13.9
CO-435	34	626.99	112	615.01	303.4	0.039	12.0	0.013	1.64	0.0070	5.5
CO-436	33	662.09	183	649.00	1,015.0	0.013	6.0	0.013	1.45	0.0123	39.3
CO-437	32	669.74	182	650.00	1,097.2	0.018	6.0	0.013	1.76	0.0158	47.1
CO-438	31	649.81	171	646.05	291.6	0.013	6.0	0.013	0.99	0.0035	10.7
CO-439	30	641.00	172	639.48	265.3	0.006	6.0	0.013	0.76	0.0036	12.6
CO-440	29	658.29	28	638.00	776.5	0.026	6.0	0.013	1.58	0.0071	10.7
CO-441	28	638.00	27	637.33	55.4	0.012	6.0	0.013	1.28	0.0089	10.8
CO-442	27	637.33	167	629.20	165.0	0.049	6.0	0.013	2.09	0.0089	55.7
CO-443	26	656.00	185	645.00	726.4	0.015	6.0	0.013	1.57	0.0132	38.5

2024 City of Justin Wastewater Model Update.stsw
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CO-444	25	639.27	173	626.80	539.7	0.023	6.0	0.010	1.94	0.0088	55.6
CO-445	24	633.00	131	628.00	139.7	0.036	8.0	0.013	1.11	0.0018	17.2
CO-446	23	632.98	129	630.50	282.6	0.009	8.0	0.013	0.68	0.0018	14.6
CO-447	160	635.27	12th Street LS (Downtown)	622.00	328.5	0.040	8.0	0.013	3.39	0.0626	17.4
CO-448(1)	22	651.05	477	648.99	743.5	0.003	10.0	0.013	1.27	0.0600	19.2
CO-448(2)	477	648.99	292	647.93	381.5	0.003	10.0	0.013	1.27	0.0600	25.9
CO-449	21	641.91	358	641.44	147.6	0.003	12.0	0.013	2.90	1.1836	79.5
CO-450	358	641.44	202	640.44	347.3	0.003	12.0	0.013	2.77	1.2461	76.9
CO-452	20	696.00	19	693.50	751.8	0.003	8.0	0.013	0.59	0.0035	5.6
CO-453	19	693.50	18	688.75	321.3	0.015	8.0	0.013	1.00	0.0035	12.6
CO-454	17	660.12	359	651.40	1,003.1	0.009	8.0	0.013	2.58	0.1584	36.2
CO-455	359	651.40	202	640.44	551.3	0.020	8.0	0.013	3.68	0.1945	69.0
CO-456	18	688.75	81	687.00	325.0	0.005	8.0	0.013	1.58	0.0519	21.3
CO-462	320	648.58	21	641.91	866.7	0.008	12.0	0.013	4.14	1.1836	66.9
CO-464	14	677.74	285	665.28	1,010.6	0.012	8.0	0.013	1.46	0.0150	12.5
CO-465	79	659.00	12th Street LS (Private)	645.00	403.8	0.035	8.0	0.013	3.92	0.1223	24.8
CO-466	13	636.61	12	626.00	1,177.1	0.009	8.0	0.013	0.85	0.0036	6.1
CO-467	12	626.00	114	623.31	227.5	0.012	8.0	0.013	1.14	0.0072	10.5
CO-468	11	635.83	12	626.00	1,238.6	0.008	8.0	0.013	0.81	0.0036	6.2
CO-469	10	611.22	9	600.00	731.6	0.015	10.0	0.013	1.76	0.0240	9.0
CO-470	9	600.00	8	597.00	587.0	0.005	18.0	0.013	1.10	0.0240	23.0
CO-471	8	597.00	Justin Treatment Plant	596.00	132.8	0.008	24.0	0.013	4.55	1.9873	28.7
CO-474	425	609.57	426	606.67	473.4	0.006	30.0	0.013	4.36	2.3901	27.3
CO-475	189	620.00	8	597.00	298.0	0.077	18.0	0.013	10.69	1.9633	33.0
CO-476	7	694.00	6	692.50	512.8	0.003	8.0	0.013	1.73	0.1566	41.5

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-477	6	692.50	5	689.00	1,067.3	0.003	8.0	0.013	1.81	0.1566	43.9
CO-478	4	703.96	1	698.09	835.9	0.007	8.0	0.013	1.74	0.0519	24.6
CO-479	5	689.00	2	688.00	386.2	0.003	8.0	0.013	1.71	0.1778	45.4
CO-480	2	688.00	336	677.25	291.3	0.037	8.0	0.013	4.96	0.2543	35.8
CO-481	3	700.75	1	698.09	564.1	0.005	8.0	0.013	1.47	0.0484	25.1
CO-482	381	694.75	353	694.00	162.1	0.005	8.0	0.013	2.33	0.2561	59.0

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Outfall Table

Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Flow (Total Out) (MGD)
Meadowlands LS	600.74	575.00	0.1849
12th Street LS (Private)	666.05	645.00	0.1223
12th Street LS (Downtown)	637.00	622.00	0.1579
Timberbrooks LS	626.50	606.50	1.1106
Justin Treatment Plant	616.27	596.00	5.3601

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
1	710.15	698.09	0.0000	0.1003	0.1003
2	697.00	688.00	0.0000	0.2543	0.2543
3	713.23	700.75	0.0150	0.0334	0.0484
4	715.75	703.96	0.0150	0.0370	0.0519
5	699.00	689.00	0.0000	0.1778	0.1778
6	701.00	692.50	0.0000	0.1566	0.1566
7	701.00	694.00	0.0000	0.1566	0.1566
8	616.65	597.00	0.0000	1.9873	1.9873
9	624.36	600.00	0.0000	0.0240	0.0240
10	615.22	611.22	0.0240	0.0000	0.0240
11	639.83	635.83	0.0036	0.0000	0.0036
12	630.00	626.00	0.0000	0.0072	0.0072
13	640.61	636.61	0.0036	0.0000	0.0036
14	684.46	677.74	0.0150	0.0000	0.0150
15	665.40	656.95	0.0079	1.0375	1.0454
17	672.00	660.12	0.0273	0.1311	0.1584
18	695.45	688.75	0.0484	0.0035	0.0519
19	700.00	693.50	0.0000	0.0035	0.0035
20	702.00	696.00	0.0035	0.0000	0.0035
21	655.88	641.91	0.0000	1.1836	1.1836
22	671.67	651.05	0.0000	0.0600	0.0600
23	636.98	632.98	0.0018	0.0000	0.0018
24	637.85	633.00	0.0018	0.0000	0.0018
25	643.27	639.27	0.0088	0.0000	0.0088
26	663.00	656.00	0.0132	0.0000	0.0132
27	641.33	637.33	0.0000	0.0089	0.0089
28	642.00	638.00	0.0018	0.0071	0.0089
29	662.29	658.29	0.0071	0.0000	0.0071
30	645.00	641.00	0.0036	0.0000	0.0036
31	653.81	649.81	0.0035	0.0000	0.0035
32	681.00	669.74	0.0158	0.0000	0.0158
33	673.00	662.09	0.0123	0.0000	0.0123
34	630.99	626.99	0.0070	0.0000	0.0070
35	628.00	624.00	0.0088	0.0000	0.0088
36	628.00	624.00	0.0079	0.0000	0.0079
37	625.00	621.00	0.0018	0.0000	0.0018
38	625.00	621.00	0.0026	0.0000	0.0026
39	626.00	622.00	0.0018	0.1170	0.1188
40	645.95	641.95	0.0000	0.0361	0.0361
41	646.00	639.00	0.0088	0.0722	0.0810
42	654.00	647.00	0.0000	0.0167	0.0167
43	639.22	630.25	0.0000	0.2086	0.2086
44	635.02	629.32	0.0000	0.2086	0.2086
45	664.58	651.86	0.0202	0.0651	0.0854
46	671.94	659.46	0.0202	0.0546	0.0748
47	683.37	676.59	0.0326	0.0000	0.0326

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
48	683.31	677.33	0.0185	0.0000	0.0185
49	680.62	674.00	0.0035	0.0106	0.0141
50	685.00	681.00	0.0106	0.0000	0.0106
51	679.25	672.00	0.0026	0.0000	0.0026
52	670.26	666.26	0.0018	0.0150	0.0167
53	681.22	677.22	0.0123	0.0000	0.0123
54	682.00	678.00	0.0088	0.0000	0.0088
55	669.37	665.37	0.0026	0.0202	0.0229
56	672.31	668.31	0.0000	0.0114	0.0114
57	685.00	681.00	0.0114	0.0000	0.0114
58	693.97	689.97	0.0018	0.0000	0.0018
59	692.00	683.50	0.0026	0.0194	0.0220
60	693.50	686.00	0.0070	0.0123	0.0194
61	695.00	691.00	0.0106	0.0000	0.0106
62	692.00	688.00	0.0018	0.0000	0.0018
63	695.00	691.00	0.0053	0.0000	0.0053
64	693.29	686.50	0.0097	0.0070	0.0167
65	691.97	684.00	0.0106	0.0167	0.0273
66	675.00	671.00	0.0018	0.0678	0.0695
67	689.00	686.00	0.0176	0.0000	0.0176
68	695.50	691.50	0.0176	0.0000	0.0176
69	676.19	672.22	0.0026	0.0475	0.0502
70	678.00	674.00	0.0097	0.0202	0.0299
71	686.09	682.00	0.0106	0.0097	0.0202
72	700.00	696.00	0.0062	0.0035	0.0097
73	702.00	698.00	0.0035	0.0000	0.0035
74	681.64	672.00	0.0273	0.0000	0.0273
75	684.00	669.00	0.0070	0.0273	0.0343
76	680.71	665.00	0.0062	0.0343	0.0405
77	673.00	662.00	0.0000	0.1100	0.1100
78	673.00	661.50	0.0053	0.1100	0.1153
79	670.00	659.00	0.0070	0.1153	0.1223
80	692.64	688.00	0.0026	0.0000	0.0026
81	697.00	687.00	0.0000	0.0519	0.0519
82	696.89	686.50	0.0053	0.0519	0.0572
83	695.07	686.00	0.0000	0.0598	0.0598
84	692.67	682.00	0.1312	0.0598	0.1910
85	686.04	675.00	0.0141	0.1910	0.2051
86	676.00	669.00	0.0036	0.0000	0.0036
87	629.75	625.84	0.0000	0.1849	0.1849
88	634.05	630.05	0.0000	0.1849	0.1849
89	638.00	634.00	0.0000	0.1849	0.1849
90	639.00	635.00	0.1849	0.0000	0.1849
91	608.57	604.57	0.0035	0.0062	0.0097
92	619.26	615.00	0.0062	0.0000	0.0062
93	621.16	617.16	0.0132	0.0026	0.0158

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
94	618.07	614.07	0.0070	0.0185	0.0255
95	596.25	592.25	0.0000	0.1144	0.1144
96	604.14	597.00	0.0000	0.1144	0.1144
97	604.00	600.00	0.0088	0.0959	0.1047
98	604.83	600.83	0.0070	0.0889	0.0959
99	615.32	604.00	0.0035	0.0854	0.0889
100	613.82	607.00	0.0070	0.0625	0.0695
101	613.00	608.00	0.0000	0.0370	0.0370
102	612.36	609.00	0.0000	0.0370	0.0370
103	617.60	615.00	0.0246	0.0123	0.0370
104	623.40	617.00	0.0035	0.0088	0.0123
105	630.59	622.00	0.0088	0.0000	0.0088
106	623.36	619.36	0.0079	0.0106	0.0185
107	618.58	614.58	0.0070	0.0000	0.0070
108	618.00	614.00	0.0018	0.0397	0.0415
109	608.00	604.00	0.0000	0.0705	0.0705
110	612.70	608.70	0.0000	0.0705	0.0705
111	615.01	611.01	0.0097	0.0123	0.0220
112	619.01	615.01	0.0053	0.0070	0.0123
113	632.33	628.33	0.0097	0.0000	0.0097
114	627.31	623.31	0.0044	0.0169	0.0213
115	625.81	621.81	0.0070	0.0213	0.0283
116	622.45	618.45	0.0018	0.0301	0.0318
117	630.32	626.32	0.0000	0.0018	0.0018
118	631.79	627.79	0.0018	0.0000	0.0018
119	636.30	634.00	0.0072	0.0000	0.0072
120	639.00	635.00	0.0054	0.0000	0.0054
121	638.41	635.41	0.0018	0.0000	0.0018
122	638.00	635.00	0.0018	0.0000	0.0018
123	639.37	635.37	0.0090	0.0000	0.0090
124	637.33	634.50	0.0072	0.0000	0.0072
125	639.71	634.00	0.0036	0.0072	0.0108
126	640.00	633.00	0.0000	0.0269	0.0269
127	638.00	632.00	0.0000	0.0305	0.0305
128	638.00	631.00	0.0000	0.0359	0.0359
129	639.00	630.50	0.0197	0.0376	0.0574
130	638.52	629.50	0.0000	0.0574	0.0574
131	638.93	628.00	0.0000	0.0592	0.0592
132	631.15	627.15	0.0000	0.0592	0.0592
133	648.00	644.00	0.0000	0.0361	0.0361
134	657.27	653.27	0.0300	0.0062	0.0361
135	683.62	679.62	0.0062	0.0000	0.0062
136	688.94	684.94	0.0088	0.0000	0.0088
137	684.00	680.00	0.0079	0.0088	0.0167
138	673.70	669.70	0.0053	0.0167	0.0220
139	665.44	661.44	0.0132	0.0220	0.0352

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
140	647.95	643.95	0.0018	0.0352	0.0370
141	649.63	645.63	0.0080	0.0176	0.0256
142	655.77	651.77	0.0035	0.0141	0.0176
143	666.41	662.41	0.0079	0.0062	0.0141
144	676.16	672.16	0.0062	0.0000	0.0062
145	650.00	646.00	0.0116	0.0264	0.0380
146	654.80	650.80	0.0062	0.0203	0.0264
147	663.89	659.89	0.0080	0.0123	0.0203
148	684.50	680.50	0.0123	0.0000	0.0123
149	659.42	655.42	0.0125	0.0212	0.0336
150	682.72	678.72	0.0212	0.0000	0.0212
151	679.20	675.20	0.0176	0.0000	0.0176
152	680.00	676.00	0.0097	0.0000	0.0097
153	642.65	631.50	0.0036	1.3941	1.3977
154	667.28	663.28	0.0160	0.0291	0.0450
155	671.41	667.41	0.0000	0.0114	0.0114
156	678.17	674.17	0.0000	0.0114	0.0114
157	678.92	674.92	0.0018	0.0000	0.0018
158	642.00	630.50	0.0036	1.4136	1.4172
159	674.11	670.11	0.0159	0.0000	0.0159
160	639.27	635.27	0.0000	0.0626	0.0626
161	641.92	636.92	0.0000	0.0256	0.0256
162	644.00	634.50	1.2739	0.0380	1.3119
163	643.00	633.00	0.0036	1.3455	1.3491
164	641.74	631.00	0.0000	1.3977	1.3977
165	643.00	630.00	0.0000	1.4172	1.4172
166	641.00	629.50	0.0000	1.4172	1.4172
167	640.87	629.20	0.0018	1.4261	1.4279
168	639.51	628.50	0.0000	1.4481	1.4481
169	669.64	665.64	0.0070	0.0000	0.0070
170	657.00	653.00	0.0018	0.0070	0.0088
171	650.05	646.05	0.0018	0.0123	0.0141
172	643.48	639.48	0.0026	0.0176	0.0203
173	638.23	626.80	0.0000	1.4569	1.4569
174	657.00	645.64	0.0114	0.0000	0.0114
175	689.00	679.19	0.0114	0.0000	0.0114
176	676.00	669.00	0.0009	0.0114	0.0123
177	675.00	668.00	0.0000	0.2174	0.2174
178	675.00	666.00	0.0000	0.2174	0.2174
179	675.00	665.00	0.0053	0.2210	0.2263
180	668.00	661.00	0.0123	0.2263	0.2386
181	657.00	651.00	0.0018	0.2386	0.2404
182	656.00	650.00	0.0044	0.2562	0.2606
183	656.00	649.00	0.0009	0.2729	0.2738
184	655.00	648.00	0.0026	0.2738	0.2764
185	655.00	645.00	0.0062	0.2896	0.2958

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
186	650.00	640.10	0.0053	0.3072	0.3125
187	636.81	625.80	0.0036	0.3125	0.3161
188	634.90	625.00	0.0000	1.7730	1.7730
189	630.12	620.00	0.0000	1.9633	1.9633
190	633.16	624.00	0.0054	1.7730	1.7784
191	642.00	630.32	0.0229	0.0000	0.0229
192	639.34	635.34	0.0220	0.0000	0.0220
193	661.00	650.50	0.0510	0.0000	0.0510
194	663.00	656.00	0.0581	0.0000	0.0581
195	652.00	645.00	0.0229	0.1091	0.1320
196	660.00	653.00	0.0370	0.0000	0.0370
197	643.00	631.95	0.0035	0.0370	0.0405
198	641.00	630.48	0.0009	0.1725	0.1734
199	640.00	629.51	0.0000	0.1954	0.1954
200	640.00	629.00	0.0361	0.1954	0.2314
201	640.00	628.50	0.0035	0.2543	0.2578
202	657.86	640.44	0.0000	1.4406	1.4406
203	651.68	639.30	0.0000	1.4424	1.4424
204	635.35	627.53	0.0000	0.2086	0.2086
205	627.03	613.90	0.0000	0.1188	0.1188
206	642.00	630.70	0.0176	0.0000	0.0176
207	637.00	626.60	0.0000	0.2754	0.2754
208	692.00	681.50	0.0044	0.0493	0.0537
209	691.63	687.63	0.0035	0.0000	0.0035
210	692.87	688.87	0.0035	0.0000	0.0035
211	692.00	686.00	0.0053	0.0070	0.0123
212	688.97	680.00	0.0035	0.0660	0.0695
213	682.39	678.39	0.0026	0.0695	0.0722
214	678.00	673.10	0.0035	0.0722	0.0757
215	694.00	690.00	0.0150	0.0000	0.0150
216	684.36	672.00	0.0035	0.0906	0.0942
217	691.85	687.85	0.0176	0.0000	0.0176
218	685.00	670.90	0.0035	0.1118	0.1153
219	693.50	689.42	0.0018	0.0000	0.0018
220	692.65	688.63	0.0070	0.0018	0.0088
221	687.02	683.02	0.0026	0.0088	0.0114
222	680.80	676.80	0.0044	0.0114	0.0158
223	688.76	684.76	0.0167	0.0000	0.0167
224	681.00	669.80	0.0018	0.1320	0.1338
225	678.34	669.14	0.0009	0.1478	0.1487
226	675.00	668.49	0.0009	0.1646	0.1654
227	675.00	668.10	0.0000	0.1654	0.1654
228	667.43	663.43	0.0000	0.1654	0.1654
229	660.66	656.66	0.0000	0.1654	0.1654
230	652.07	648.07	0.0000	0.3814	0.3814
231	617.00	613.00	0.0000	0.7073	0.7073

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
232	623.02	619.02	0.0000	0.7073	0.7073
233	634.54	630.54	0.0018	0.5957	0.5975
234	642.74	633.00	0.0018	0.5939	0.5957
235	645.01	634.00	0.0054	0.5885	0.5939
236	646.60	637.50	0.0000	0.5885	0.5885
237	646.27	637.60	0.0000	0.5885	0.5885
238	649.49	645.49	0.0054	0.2017	0.2071
239	654.00	647.00	0.0018	0.1999	0.2017
240	715.79	702.58	0.0202	0.0950	0.1153
241	713.78	701.32	0.0308	0.1153	0.1461
242	707.86	697.69	0.0000	0.2112	0.2112
243	708.74	696.43	0.0255	0.2112	0.2367
244	709.51	694.41	0.0370	0.2367	0.2737
245	697.57	685.41	0.0026	0.2948	0.2974
246	702.25	695.20	0.0211	0.0000	0.0211
247	699.14	684.09	0.0035	0.3344	0.3379
248	693.35	682.77	0.0035	0.3898	0.3934
249	683.16	672.11	0.0018	0.4022	0.4039
250	668.43	660.38	0.0062	0.4171	0.4233
251	690.59	684.04	0.0132	0.0000	0.0132
252	656.00	647.39	0.0000	0.7383	0.7383
253	652.94	646.89	0.0000	0.7383	0.7383
254	628.48	619.55	0.0035	0.8765	0.8800
255	634.67	627.08	0.0158	0.0000	0.0158
256	651.29	640.84	0.0070	0.1100	0.1170
257	679.35	670.87	0.0202	0.0000	0.0202
258	659.57	648.16	0.0044	0.0854	0.0898
259	661.88	652.60	0.0097	0.0387	0.0484
260	685.49	673.84	0.0220	0.0167	0.0387
261	702.55	696.00	0.0167	0.0000	0.0167
262	684.59	677.53	0.0370	0.0000	0.0370
263	666.17	658.54	0.0132	0.0273	0.0405
264	642.59	634.66	0.0035	0.0537	0.0572
265	671.57	665.52	0.0132	0.0000	0.0132
266	638.66	628.22	0.0070	0.0845	0.0915
267	653.78	643.95	0.0079	0.0194	0.0273
268	654.48	647.43	0.0194	0.0000	0.0194
269	653.36	646.31	0.0141	0.0000	0.0141
270	626.58	617.80	0.0106	0.9398	0.9504
271	661.10	652.34	0.0414	0.0000	0.0414
272	627.49	618.69	0.0044	0.9214	0.9258
273	632.66	615.97	0.0114	0.9645	0.9759
274	646.22	640.17	0.0141	0.0000	0.0141
275	626.83	614.51	0.0035	1.0674	1.0710
276	626.86	613.48	0.0158	1.0806	1.0965
277	623.97	610.89	0.0000	1.1106	1.1106

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
278	628.22	622.17	0.0141	0.0000	0.0141
279	629.72	623.67	0.0097	0.0000	0.0097
280	624.65	606.77	0.0000	1.1106	1.1106
281	621.00	607.50	0.0000	0.0000	0.0000
282	680.94	673.59	0.0088	0.0000	0.0088
283	713.91	705.91	0.0370	0.0000	0.0370
284	709.71	699.50	0.0651	0.0000	0.0651
285	676.69	665.28	0.0000	0.0238	0.0238
286	684.35	677.74	0.0678	0.0000	0.0678
287	686.89	679.40	0.0088	0.0000	0.0088
288	681.88	675.31	0.0220	0.0000	0.0220
289	674.27	661.54	0.0000	0.0634	0.0634
290	680.15	662.79	0.0088	0.0326	0.0414
291	678.42	664.04	0.0088	0.0238	0.0326
292	657.93	647.93	0.0000	0.1999	0.1999
293	688.12	680.00	0.0202	0.0000	0.0202
294	685.74	675.28	0.0044	0.0317	0.0361
295	686.10	677.87	0.0114	0.0000	0.0114
296	686.35	674.16	0.0035	0.0422	0.0458
297	686.50	679.94	0.0062	0.0000	0.0062
298	687.19	673.27	0.0044	0.0493	0.0537
299	687.72	680.79	0.0035	0.0000	0.0035
300	683.66	672.05	0.0202	0.0669	0.0871
301	689.48	683.51	0.0132	0.0000	0.0132
302	674.98	667.28	0.0000	0.1399	0.1399
303	688.39	683.19	0.0229	0.0000	0.0229
304	690.09	684.74	0.0299	0.0000	0.0299
305	692.12	678.88	0.0000	0.8862	0.8862
306	677.34	663.81	0.0141	0.9363	0.9504
307	673.34	665.85	0.0317	0.0554	0.0871
308	685.55	677.81	0.0194	0.0000	0.0194
309	683.15	668.86	0.0361	0.0000	0.0361
310	672.84	665.47	0.0088	0.0000	0.0088
311	673.46	666.46	0.0554	0.0000	0.0554
312	652.00	645.00	0.0361	0.0000	0.0361
313	655.00	649.00	0.0000	0.2160	0.2160
314	660.00	656.00	0.0000	0.1620	0.1620
315	665.00	658.50	0.0000	0.1080	0.1080
316	671.00	664.00	0.0540	0.0000	0.0540
317	677.00	670.00	0.0540	0.0000	0.0540
318	670.00	663.00	0.0540	0.0000	0.0540
319	673.00	667.00	0.0540	0.0000	0.0540
320	659.72	648.58	0.0070	1.1766	1.1836
321	652.90	639.66	0.0000	1.4406	1.4406
322	661.52	651.66	0.0000	0.1399	0.1399
323	642.14	619.50	0.0000	2.0628	2.0628

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Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
324	644.75	634.24	0.0484	0.0748	0.1232
325	669.84	662.79	0.0273	0.0000	0.0273
326	631.39	620.64	0.0053	0.1170	0.1223
327	667.06	660.05	0.0000	0.3150	0.3150
328	687.80	678.10	0.0079	0.0528	0.0607
329	703.09	695.12	0.0185	0.0343	0.0528
330	707.36	699.70	0.0158	0.0185	0.0343
331	712.25	705.20	0.0079	0.0106	0.0185
332	716.88	709.51	0.0106	0.0000	0.0106
333	715.72	708.81	0.0519	0.0000	0.0519
334	665.00	656.25	0.0000	0.3150	0.3150
335	663.00	657.00	0.0000	0.3150	0.3150
336	697.70	677.25	0.0000	0.2543	0.2543
337	714.42	706.45	0.0950	0.0000	0.0950
338	701.95	693.00	0.0220	0.0000	0.0220
339	698.12	683.00	0.0000	0.4145	0.4145
340	699.36	688.00	0.0000	0.3925	0.3925
341	692.05	679.33	0.0000	0.8862	0.8862
342	679.00	658.95	0.0600	0.0000	0.0600
343	676.08	670.00	0.0238	0.0000	0.0238
344	676.08	670.00	0.0220	0.0000	0.0220
345	635.35	614.98	0.0000	2.2713	2.2713
346	700.78	689.42	0.0000	0.3925	0.3925
347	710.14	698.78	0.0334	0.0000	0.0334
348	704.15	692.79	0.0097	0.3494	0.3590
349	709.01	697.65	0.0079	0.0651	0.0730
350	713.82	702.37	0.0000	0.0370	0.0370
351	719.97	708.52	0.0370	0.0000	0.0370
352	717.53	706.17	0.0282	0.0000	0.0282
353	710.67	694.00	0.0202	0.2561	0.2763
354	666.25	650.64	0.0062	1.0903	1.0965
355	675.60	665.60	0.0449	0.0000	0.0449
356	674.28	667.08	0.0801	0.0000	0.0801
357	676.69	669.69	0.0554	0.0000	0.0554
358	656.32	641.44	0.0070	1.2390	1.2461
359	660.14	651.40	0.0132	0.1813	0.1945
360	672.00	665.00	0.0229	0.0000	0.0229
361	685.85	675.46	0.0282	0.8994	0.9275
362	693.00	677.92	0.0132	0.8862	0.8994
363	722.00	715.00	0.0211	0.0000	0.0211
364	719.00	712.00	0.0167	0.0598	0.0766
365	721.00	714.00	0.0378	0.0220	0.0598
366	722.00	715.00	0.0026	0.0194	0.0220
367	733.00	726.00	0.0194	0.0000	0.0194
368	707.00	700.00	0.0088	0.0440	0.0528
369	725.00	718.00	0.0185	0.0000	0.0185

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370	720.00	713.00	0.0255	0.0000	0.0255
371	713.00	700.00	0.0141	0.0898	0.1038
372	725.00	711.50	0.0035	0.0352	0.0387
373	733.00	723.00	0.0229	0.0000	0.0229
374	720.00	713.00	0.0123	0.0000	0.0123
375	735.00	728.00	0.0440	0.0000	0.0440
376	707.53	696.53	0.0000	0.1734	0.1734
377	713.51	706.51	0.0000	0.0537	0.0537
378	720.85	713.85	0.0202	0.0079	0.0282
379	721.15	714.15	0.0255	0.0000	0.0255
380	726.51	719.51	0.0079	0.0000	0.0079
381	710.66	694.75	0.0000	0.2561	0.2561
382	713.18	703.00	0.0000	0.0405	0.0405
383	726.54	719.54	0.0299	0.0000	0.0299
384	726.84	719.84	0.0290	0.0000	0.0290
385	700.22	685.81	0.0000	0.4717	0.4717
386	699.66	687.25	0.0000	0.4717	0.4717
387	698.53	688.61	0.0000	0.4717	0.4717
388	703.57	693.02	0.0000	0.4717	0.4717
389	716.39	710.00	0.0308	0.0000	0.0308
390	699.69	692.34	0.0000	0.4717	0.4717
391	704.97	695.51	0.0273	0.4136	0.4409
392	706.84	696.28	0.0000	0.4136	0.4136
393	708.51	696.97	0.0000	0.3942	0.3942
394	711.52	697.75	0.0000	0.3749	0.3749
395	718.37	700.29	0.0000	0.1461	0.1461
396	714.19	702.14	0.0114	0.0651	0.0766
397	715.00	702.95	0.0000	0.0651	0.0651
398	741.00	731.00	0.0238	0.0000	0.0238
399	716.82	707.85	0.0000	0.0695	0.0695
400	718.39	709.00	0.0695	0.0000	0.0695
401	730.00	723.00	0.0000	0.2182	0.2182
402	748.00	741.00	0.0466	0.0378	0.0845
403	751.00	744.00	0.0000	0.0378	0.0378
404	762.00	755.00	0.0194	0.0000	0.0194
405	760.00	753.00	0.0185	0.0000	0.0185
406	739.00	732.00	0.0282	0.1056	0.1338
407	744.00	736.00	0.0458	0.0598	0.1056
408	744.00	737.00	0.0000	0.0598	0.0598
409	764.00	757.00	0.0343	0.0000	0.0343
410	762.00	755.00	0.0255	0.0000	0.0255
411	748.00	740.00	0.0414	0.0000	0.0414
412	650.00	638.43	0.0000	0.3814	0.3814
413	715.92	711.00	0.0106	0.0000	0.0106
414	712.20	705.00	0.0194	0.0000	0.0194
415	709.79	702.50	0.0194	0.0000	0.0194

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416	722.47	715.47	0.0370	0.0000	0.0370
417	719.02	712.02	0.0334	0.0000	0.0334
418	717.45	708.77	0.0132	0.0290	0.0422
419	720.47	707.83	0.0106	0.0299	0.0405
420	716.20	703.53	0.0194	0.0537	0.0730
421	710.00	703.00	0.0070	0.0440	0.0510
422	647.57	639.60	0.0018	0.0000	0.0018
423	650.00	643.00	0.1080	0.0000	0.1080
424	629.82	625.81	0.0018	0.7055	0.7073
425	625.31	609.57	0.0000	2.3901	2.3901
426	621.61	606.67	0.0000	2.6656	2.6656
427	619.19	605.83	0.0000	2.6656	2.6656
428	617.08	604.98	0.0000	2.6656	2.6656
429	617.43	604.14	0.0000	2.6656	2.6656
430	614.23	603.75	0.0000	3.3728	3.3728
431	613.00	603.57	0.0000	3.3728	3.3728
432	611.00	603.16	0.0000	3.3728	3.3728
433	611.23	602.41	0.0000	3.3728	3.3728
434	704.25	688.76	0.0000	0.0000	0.0000
435	657.20	635.85	0.0000	0.6204	0.6204
436	649.22	628.55	0.0000	0.6204	0.6204
437	642.58	627.00	0.0000	0.6204	0.6204
438	688.44	670.33	0.0000	0.6204	0.6204
439	696.60	682.54	0.0000	0.6204	0.6204
440	698.97	686.12	0.6204	0.0000	0.6204
441	691.08	675.45	0.0000	0.6204	0.6204
460	682.86	664.17	0.0000	0.6204	0.6204
473	642.54	626.31	0.0000	0.6204	0.6204
474	651.00	627.00	0.0000	0.0000	0.0000
477	662.59	648.99	0.0000	0.0600	0.0600
488	621.06	600.07	0.0000	0.0000	0.0000
489	668.34	664.34	0.0000	0.0000	0.0000
491	620.67	607.00	0.0000	0.0000	0.0000
492	612.00	604.00	0.0000	0.0000	0.0000
493	617.21	603.50	0.0000	0.0000	0.0000
494	621.75	602.00	0.0000	0.0000	0.0000
495	615.51	603.00	0.0000	0.0000	0.0000
496	729.11	722.11	0.0000	0.0000	0.0000
497	655.41	644.22	0.0000	0.0000	0.0000
498	660.78	650.78	0.0000	0.0000	0.0000
499	656.22	645.50	0.0000	0.0000	0.0000

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CO-1	240	702.58	241	701.32	291.4	0.004	8.0	0.013	1.84	0.1153	34.4
CO-2	241	701.32	242	697.69	852.2	0.004	8.0	0.013	1.95	0.1461	40.6
CO-3	242	697.69	243	696.43	290.7	0.004	8.0	0.013	2.17	0.2112	45.1
CO-4	243	696.43	244	694.41	398.9	0.005	8.0	0.013	2.37	0.2367	45.8
CO-5	239	647.00	238	645.49	401.5	0.004	10.0	0.013	2.01	0.2017	31.1
CO-6	244	694.41	245	685.41	1,382.5	0.007	8.0	0.013	2.70	0.2737	47.6
CO-7	238	645.49	237	637.60	411.9	0.019	10.0	0.013	3.61	0.2071	38.7
CO-8	245	685.41	246	695.20	1,204.2	0.008	8.0	0.013	1.40	0.0211	30.7
CO-9	237	637.60	236	637.50	8.5	0.012	12.0	0.013	4.02	0.5885	37.0
CO-10	245	685.41	247	684.09	317.3	0.004	10.0	0.013	2.31	0.2974	40.5
CO-11	236	637.50	235	634.00	466.8	0.007	12.0	0.013	3.42	0.5885	43.3
CO-12	247	684.09	248	682.77	308.0	0.004	10.0	0.013	2.42	0.3379	41.4
CO-13	235	634.00	234	633.00	295.1	0.003	12.0	0.013	2.56	0.5939	43.4
CO-14	248	682.77	249	672.11	314.3	0.034	10.0	0.013	5.33	0.3934	41.4
CO-15	234	633.00	233	630.54	378.4	0.007	12.0	0.013	3.25	0.5957	40.3
CO-16	249	672.11	250	660.38	321.6	0.036	10.0	0.013	5.51	0.4039	42.2
CO-17	250	660.38	251	684.04	730.2	0.032	8.0	0.013	1.95	0.0132	31.5
CO-18	233	630.54	424	625.81	140.6	0.034	12.0	0.013	5.88	0.5975	42.2
CO-19	424	625.81	232	619.02	202.2	0.034	12.0	0.013	6.17	0.7073	35.9
CO-20	232	619.02	231	613.00	312.8	0.019	12.0	0.013	5.05	0.7073	38.0
CO-21	250	660.38	252	647.39	332.3	0.039	10.0	0.013	5.73	0.4233	59.5
CO-22	231	613.00	430	605.89	258.6	0.027	12.0	0.013	5.75	0.7073	36.6
CO-23	252	647.39	253	646.89	158.8	0.003	10.0	0.013	2.56	0.7383	66.7
CO-24	253	646.89	254	619.55	3,440.3	0.008	10.0	0.013	3.72	0.7383	65.9
CO-25	230	648.07	412	638.43	266.7	0.036	10.0	0.013	5.40	0.3814	45.8
CO-26	412	638.43	237	637.60	309.3	0.003	10.0	0.013	2.10	0.3814	49.6
CO-27	229	656.66	230	648.07	315.5	0.027	10.0	0.013	3.83	0.1654	33.4
CO-28	255	627.08	254	619.55	590.6	0.013	8.0	0.013	1.50	0.0158	52.0
CO-29	228	663.43	229	656.66	460.3	0.015	10.0	0.013	3.08	0.1654	23.6
CO-30	256	640.84	326	620.64	295.6	0.068	8.0	0.013	4.91	0.1170	31.2

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CO-31	227	668.10	228	663.43	339.0	0.014	10.0	0.013	3.01	0.1654	23.8
CO-32	257	670.87	256	640.84	980.6	0.031	8.0	0.013	2.20	0.0202	20.6
CO-33	226	668.49	227	668.10	100.5	0.004	10.0	0.013	1.92	0.1654	27.8
CO-34	258	648.16	256	640.84	303.2	0.024	8.0	0.013	3.14	0.0898	27.4
CO-35	225	669.14	226	668.49	136.6	0.005	8.0	0.013	2.04	0.1487	36.3
CO-36	259	652.60	258	648.16	309.8	0.014	8.0	0.013	2.18	0.0484	22.1
CO-37	224	669.80	225	669.14	134.9	0.005	8.0	0.013	2.00	0.1338	34.8
CO-38	260	673.84	259	652.60	1,053.0	0.020	8.0	0.013	2.30	0.0387	17.6
CO-39	223	684.76	224	669.80	689.2	0.022	6.0	0.013	1.91	0.0167	30.3
CO-40	260	673.84	261	696.00	818.6	0.027	8.0	0.013	1.99	0.0167	13.7
CO-41	262	677.53	258	648.16	1,100.3	0.027	8.0	0.013	2.50	0.0370	20.9
CO-42	222	676.80	226	668.49	423.1	0.020	8.0	0.013	1.75	0.0158	23.6
CO-43	263	658.54	264	634.66	516.9	0.046	8.0	0.013	3.12	0.0405	18.7
CO-44	221	683.02	222	676.80	213.6	0.029	8.0	0.013	1.80	0.0114	9.8
CO-45	265	665.52	264	634.66	750.4	0.041	8.0	0.013	2.12	0.0132	15.0
CO-46	220	688.63	221	683.02	487.0	0.012	8.0	0.013	1.20	0.0088	8.4
CO-47	266	628.22	264	634.66	293.0	0.022	8.0	0.013	2.66	0.0572	23.1
CO-48	219	689.42	220	688.63	193.8	0.004	6.0	0.013	0.54	0.0018	8.3
CO-49	267	643.95	266	628.22	481.0	0.033	8.0	0.013	2.44	0.0273	19.9
CO-50	218	670.90	224	669.80	266.6	0.004	8.0	0.013	1.81	0.1153	33.1
CO-51	268	647.43	267	643.95	694.3	0.005	8.0	0.013	1.15	0.0194	13.4
CO-52	217	687.85	218	670.90	698.4	0.024	6.0	0.013	2.02	0.0176	29.8
CO-53	269	646.31	270	617.80	581.9	0.049	8.0	0.013	2.30	0.0141	52.4
CO-54	272	618.69	271	652.34	1,548.7	0.022	8.0	0.013	2.41	0.0414	57.1
CO-55	216	672.00	218	670.90	232.2	0.005	8.0	0.013	1.79	0.0942	30.5
CO-56	254	619.55	272	618.69	296.6	0.003	12.0	0.013	2.65	0.8800	63.4
CO-57	215	690.00	216	672.00	860.3	0.021	8.0	0.013	1.76	0.0150	19.3
CO-58	272	618.69	270	617.80	309.2	0.003	12.0	0.013	2.67	0.9258	63.9
CO-59	270	617.80	273	615.97	565.7	0.003	12.0	0.013	2.81	0.9504	64.6
CO-60	214	673.10	216	672.00	245.5	0.004	8.0	0.013	1.65	0.0757	27.0

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CO-61	274	640.17	273	615.97	796.6	0.030	8.0	0.013	1.95	0.0141	54.5
CO-62	213	678.39	214	673.10	185.1	0.029	8.0	0.013	3.13	0.0722	24.3
CO-63	273	615.97	275	614.51	486.5	0.003	12.0	0.013	2.74	0.9759	66.3
CO-64	212	680.00	213	678.39	304.2	0.005	8.0	0.013	1.71	0.0695	23.2
CO-65	266	628.22	275	614.51	553.2	0.025	8.0	0.013	3.19	0.0915	62.9
CO-66	211	686.00	212	680.00	267.7	0.022	8.0	0.013	1.68	0.0123	16.5
CO-67	275	614.51	276	613.48	291.9	0.004	12.0	0.013	2.98	1.0710	66.8
CO-68	210	688.87	211	686.00	157.2	0.018	6.0	0.013	1.12	0.0035	9.8
CO-69	276	613.48	277	610.89	710.4	0.004	12.0	0.013	3.04	1.0965	61.3
CO-70	209	687.63	211	686.00	83.5	0.020	8.0	0.013	1.09	0.0035	7.1
CO-71	278	622.17	277	610.89	673.5	0.017	8.0	0.013	1.60	0.0141	46.8
CO-72	208	681.50	212	680.00	253.8	0.006	8.0	0.013	1.65	0.0537	21.9
CO-73	279	623.67	276	613.48	406.8	0.025	8.0	0.013	1.62	0.0097	54.1
CO-74	277	610.89	280	606.77	365.3	0.011	12.0	0.013	4.70	1.1106	59.1
CO-77	282	673.59	249	672.11	326.8	0.005	8.0	0.013	0.87	0.0088	30.5
CO-78	283	705.91	247	684.09	1,330.0	0.016	8.0	0.013	2.11	0.0370	34.2
CO-81	207	626.60	426	612.04	307.7	0.047	8.0	0.013	5.53	0.2754	36.5
CO-82	284	699.50	242	697.69	287.2	0.006	8.0	0.013	1.78	0.0651	33.3
CO-83	206	630.70	207	626.60	911.8	0.004	8.0	0.013	1.08	0.0176	29.1
CO-85	345	614.98	425	609.57	1,421.9	0.004	30.0	0.013	3.63	2.2713	25.2
CO-86	289	661.54	17	660.12	285.9	0.005	8.0	0.013	1.62	0.0634	28.6
CO-87	204	627.53	345	626.00	36.4	0.042	8.0	0.013	4.90	0.2086	32.0
CO-88	286	677.74	17	660.12	2,621.1	0.007	8.0	0.013	1.85	0.0678	28.2
CO-89	202	640.44	321	639.66	250.2	0.003	15.0	0.013	3.09	1.4406	56.1
CO-90	201	628.50	207	626.60	240.3	0.008	8.0	0.013	2.85	0.2578	44.9
CO-91	285	665.28	287	679.40	594.4	0.024	8.0	0.013	1.55	0.0088	11.3
CO-92	200	629.00	201	628.50	107.3	0.005	8.0	0.013	2.28	0.2314	45.1
CO-93	288	675.31	289	661.54	1,167.4	0.012	8.0	0.013	1.61	0.0220	17.7
CO-94	199	629.51	200	629.00	270.2	0.002	8.0	0.013	1.56	0.1954	50.2
CO-95	289	661.54	290	662.79	297.0	0.004	8.0	0.013	1.35	0.0414	21.1

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CO-96	198	630.48	199	629.51	271.9	0.004	8.0	0.013	1.92	0.1734	48.3
CO-97	197	631.95	198	630.48	272.7	0.005	8.0	0.013	1.47	0.0405	30.1
CO-98	285	665.28	291	664.04	295.7	0.004	8.0	0.013	1.15	0.0238	15.9
CO-99	196	653.00	197	631.95	1,538.4	0.014	8.0	0.013	1.98	0.0370	17.1
CO-100	291	664.04	290	662.79	284.2	0.004	8.0	0.013	1.28	0.0326	18.2
CO-101	292	647.93	239	647.00	246.9	0.004	10.0	0.013	2.00	0.1999	32.7
CO-102	293	680.00	294	675.28	929.8	0.005	8.0	0.013	1.17	0.0202	15.7
CO-103	295	677.87	294	675.28	357.4	0.007	8.0	0.013	1.12	0.0114	13.7
CO-104	294	675.28	296	674.16	282.6	0.004	8.0	0.013	1.27	0.0361	18.9
CO-105	297	679.94	296	679.00	235.5	0.004	8.0	0.013	0.75	0.0062	7.2
CO-106	195	645.00	198	630.48	884.8	0.016	8.0	0.013	3.07	0.1320	36.7
CO-107	296	674.16	298	673.27	174.1	0.005	8.0	0.013	1.49	0.0458	20.6
CO-108	299	680.79	298	680.00	199.7	0.004	8.0	0.013	0.63	0.0035	5.5
CO-109	194	656.00	195	645.00	692.6	0.016	8.0	0.013	2.39	0.0581	25.8
CO-110	298	673.27	300	672.05	278.6	0.004	8.0	0.013	1.48	0.0537	23.5
CO-111	193	650.50	195	645.00	914.5	0.006	8.0	0.013	1.63	0.0510	25.4
CO-112	301	683.51	300	672.05	815.0	0.014	8.0	0.013	1.47	0.0132	17.4
CO-113	300	672.05	302	667.28	751.5	0.006	8.0	0.013	1.94	0.0871	28.7
CO-114	302	667.28	303	683.19	672.1	0.024	8.0	0.013	2.07	0.0229	22.4
CO-115	192	635.34	199	629.51	829.0	0.007	8.0	0.013	1.35	0.0220	33.5
CO-116	302	667.28	304	684.74	1,027.1	0.017	8.0	0.013	2.01	0.0299	23.3
CO-117	302	667.28	322	651.66	966.7	0.016	8.0	0.013	3.11	0.1399	28.7
CO-118	191	630.32	201	628.50	230.8	0.008	8.0	0.013	1.42	0.0229	28.4
CO-119	305	678.88	362	677.92	177.8	0.005	12.0	0.013	3.37	0.8862	51.9
CO-120	361	675.46	306	663.81	1,437.1	0.008	12.0	0.013	3.97	0.9275	51.1
CO-121	190	624.00	189	620.00	256.5	0.016	18.0	0.013	5.87	1.7784	43.1
CO-122	306	663.81	15	656.95	666.8	0.010	12.0	0.013	4.36	0.9504	52.7
CO-123	307	665.85	15	656.95	1,427.9	0.006	8.0	0.013	1.93	0.0871	53.2
CO-124	308	677.81	307	665.85	849.6	0.014	8.0	0.013	1.65	0.0194	18.6
CO-125	188	625.00	190	624.00	149.2	0.007	18.0	0.013	4.33	1.7730	41.9

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CO-126	309	668.86	307	665.85	582.4	0.005	8.0	0.013	1.40	0.0361	21.3
CO-127	187	625.80	188	625.00	137.1	0.006	8.0	0.013	2.68	0.3161	73.0
CO-128	186	640.10	187	625.80	303.8	0.047	8.0	0.013	5.72	0.3125	50.3
CO-129	185	645.00	186	640.10	598.4	0.008	8.0	0.013	3.00	0.2958	48.1
CO-130	310	665.47	306	663.81	543.5	0.003	8.0	0.013	0.76	0.0088	43.5
CO-131	184	648.00	185	645.00	217.1	0.014	8.0	0.013	3.56	0.2764	46.6
CO-132	183	649.00	184	648.00	189.0	0.005	8.0	0.013	2.50	0.2738	47.3
CO-133	182	650.00	183	649.00	389.0	0.003	8.0	0.013	1.87	0.2606	54.1
CO-134	311	666.46	41	639.00	1,530.1	0.018	8.0	0.013	2.46	0.0554	22.1
CO-135	181	651.00	182	650.00	287.4	0.003	8.0	0.013	2.06	0.2404	55.2
CO-136	180	661.00	181	651.00	687.9	0.015	8.0	0.013	3.48	0.2386	46.8
CO-137	179	665.00	180	661.00	388.6	0.010	8.0	0.013	3.03	0.2263	41.8
CO-138	178	666.00	179	665.00	38.0	0.026	8.0	0.013	4.20	0.2174	40.8
CO-139	177	668.00	178	666.00	336.3	0.006	8.0	0.013	2.45	0.2174	41.0
CO-140	176	669.00	177	668.00	368.4	0.003	8.0	0.013	0.81	0.0123	26.7
CO-141	230	648.07	313	649.00	21.7	0.043	8.0	0.013	4.98	0.2160	45.4
CO-142	314	656.00	313	649.00	339.8	0.021	8.0	0.013	3.54	0.1620	37.4
CO-143	315	658.50	314	656.00	143.4	0.017	8.0	0.013	2.96	0.1080	31.4
CO-144	175	679.19	176	669.00	814.3	0.013	8.0	0.013	1.36	0.0114	10.4
CO-145	316	664.00	315	658.50	272.6	0.020	8.0	0.013	2.54	0.0540	23.9
CO-146	174	645.64	186	640.10	667.4	0.008	6.0	0.013	1.22	0.0114	39.0
CO-147	317	670.00	315	658.50	404.5	0.028	8.0	0.013	2.86	0.0540	23.9
CO-148	173	626.80	188	625.00	365.3	0.005	14.0	0.013	3.68	1.4569	54.8
CO-149	318	663.00	314	656.00	396.1	0.018	8.0	0.013	2.43	0.0540	27.2
CO-150	168	628.50	173	626.80	459.3	0.004	14.0	0.013	3.29	1.4481	58.2
CO-151	313	649.00	319	667.00	517.4	0.035	8.0	0.013	3.08	0.0540	30.0
CO-152	172	639.48	168	628.50	391.1	0.028	6.0	0.013	2.21	0.0203	58.6
CO-154	171	646.05	172	639.48	354.8	0.019	6.0	0.013	1.71	0.0141	15.8
CO-155	354	650.64	320	648.58	322.7	0.006	12.0	0.013	3.78	1.0965	56.6
CO-156	15	656.95	354	650.64	360.7	0.017	12.0	0.013	5.44	1.0454	54.8

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CO-157	170	653.00	171	646.05	238.8	0.029	6.0	0.013	1.75	0.0088	12.8
CO-158	321	639.66	203	639.30	105.3	0.003	15.0	0.013	3.20	1.4406	51.5
CO-159	169	665.64	170	653.00	652.8	0.019	6.0	0.013	1.42	0.0070	10.7
CO-160	292	647.93	322	651.66	394.9	0.009	10.0	0.013	2.51	0.1399	28.3
CO-161	203	639.30	323	630.00	377.8	0.025	15.0	0.013	6.63	1.4424	39.8
CO-162	167	629.20	168	628.50	367.2	0.002	14.0	0.013	2.50	1.4279	68.7
CO-163	323	619.50	345	614.98	1,296.4	0.003	30.0	0.013	3.42	2.0628	24.8
CO-164	166	629.50	167	629.20	167.0	0.002	14.0	0.013	2.43	1.4172	77.2
CO-165	43	630.25	324	634.24	897.8	0.004	8.0	0.013	1.89	0.1232	37.9
CO-166	165	630.00	166	629.50	153.0	0.003	14.0	0.013	3.12	1.4172	70.8
CO-167	55	665.37	45	651.86	315.9	0.043	8.0	0.013	2.56	0.0229	18.8
CO-168	46	659.46	324	634.24	889.1	0.028	8.0	0.013	3.16	0.0748	28.2
CO-169	325	662.79	263	658.54	1,005.0	0.004	8.0	0.013	1.20	0.0273	16.4
CO-170	162	634.50	163	633.00	334.4	0.004	14.0	0.013	3.47	1.3119	54.2
CO-171	326	620.64	254	619.55	251.9	0.004	8.0	0.013	1.87	0.1223	63.3
CO-172	252	647.39	334	656.25	262.4	0.034	8.0	0.013	5.09	0.3150	72.2
CO-173	161	636.92	160	635.27	354.0	0.005	8.0	0.013	1.22	0.0256	18.1
CO-174	327	660.05	328	678.10	417.1	0.043	8.0	0.013	3.44	0.0607	34.9
CO-175	158	630.50	165	630.00	200.7	0.002	14.0	0.013	2.80	1.4172	66.1
CO-176	328	678.10	329	695.12	949.3	0.018	8.0	0.013	2.42	0.0528	20.2
CO-177	164	631.00	158	630.50	187.5	0.003	14.0	0.013	2.87	1.3977	67.5
CO-178	329	695.12	330	699.70	756.9	0.006	8.0	0.013	1.45	0.0343	17.8
CO-179	159	670.11	158	630.50	1,038.3	0.038	8.0	0.013	2.18	0.0159	55.3
CO-180	330	699.70	331	705.20	374.2	0.015	8.0	0.013	1.65	0.0185	13.8
CO-181	157	674.92	156	674.17	193.2	0.004	6.0	0.013	0.53	0.0018	9.6
CO-182	331	705.20	332	709.51	705.8	0.006	8.0	0.013	1.03	0.0106	10.3
CO-183	156	674.17	155	667.41	335.7	0.020	6.0	0.013	1.66	0.0114	11.6
CO-184	333	708.81	248	682.77	2,225.1	0.012	8.0	0.013	2.08	0.0519	35.4
CO-185	155	667.41	154	663.28	201.3	0.021	6.0	0.013	1.67	0.0114	18.4
CO-186	335	657.00	334	656.25	142.1	0.005	8.0	0.013	2.58	0.3150	51.1

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CO-187	153	631.50	164	631.00	162.2	0.003	14.0	0.013	3.04	1.3977	64.8
CO-188	335	657.00	327	660.05	174.6	0.017	8.0	0.013	4.02	0.3150	51.1
CO-189	163	633.00	153	631.50	333.0	0.005	14.0	0.013	3.50	1.3491	58.9
CO-190	336	677.25	327	660.05	2,121.0	0.008	8.0	0.013	2.87	0.2543	46.4
CO-191	154	663.28	153	631.50	943.1	0.034	8.0	0.013	2.89	0.0450	59.0
CO-192	152	676.00	156	674.17	322.2	0.006	6.0	0.013	1.01	0.0097	12.9
CO-193	338	693.00	339	683.00	782.3	0.013	8.0	0.013	1.65	0.0220	34.5
CO-194	151	675.20	154	663.28	1,070.0	0.011	8.0	0.013	1.48	0.0176	14.6
CO-195	339	683.00	340	688.00	493.5	0.010	8.0	0.013	3.48	0.3925	55.8
CO-196	150	678.72	149	655.42	1,104.9	0.021	6.0	0.013	2.02	0.0212	20.0
CO-197	339	683.00	341	679.33	137.1	0.027	8.0	0.013	5.06	0.4145	73.6
CO-198	149	655.42	163	633.00	909.9	0.025	6.0	0.013	2.46	0.0336	61.2
CO-199	341	679.33	305	678.88	140.1	0.003	12.0	0.013	2.76	0.8862	55.9
CO-200	22	651.05	342	658.95	617.7	0.013	8.0	0.013	2.23	0.0600	22.4
CO-201	41	639.00	39	622.00	438.3	0.039	8.0	0.013	3.61	0.0810	26.9
CO-202	148	680.50	147	659.89	736.3	0.028	6.0	0.013	1.90	0.0123	15.3
CO-203	147	659.89	146	650.80	495.2	0.018	6.0	0.013	1.91	0.0203	18.5
CO-204	146	650.80	145	646.00	329.3	0.015	6.0	0.013	1.90	0.0264	21.8
CO-205	145	646.00	162	634.50	453.5	0.025	6.0	0.013	2.57	0.0380	61.9
CO-206	346	689.42	340	688.00	142.3	0.010	8.0	0.013	3.46	0.3925	52.6
CO-207	347	698.78	346	689.42	937.7	0.010	8.0	0.013	1.72	0.0334	35.2
CO-208	144	672.16	143	662.41	374.8	0.026	6.0	0.013	1.49	0.0062	11.9
CO-209	348	692.79	346	689.42	337.1	0.010	8.0	0.013	3.39	0.3590	53.7
CO-210	143	662.41	142	651.77	460.6	0.023	6.0	0.013	1.85	0.0141	15.2
CO-211	349	697.65	348	692.79	485.6	0.010	8.0	0.013	2.17	0.0730	37.8
CO-212	142	651.77	141	645.63	435.8	0.014	6.0	0.013	1.66	0.0176	17.7
CO-213	350	702.37	349	697.65	472.0	0.010	8.0	0.013	1.77	0.0370	19.6
CO-214	141	645.63	161	636.92	486.9	0.018	6.0	0.013	2.02	0.0256	19.7
CO-215	351	708.52	350	702.37	615.0	0.010	8.0	0.013	1.77	0.0370	15.5
CO-216	140	643.95	160	635.27	617.3	0.014	6.0	0.013	2.07	0.0370	25.9

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CO-217	352	706.17	349	697.65	867.6	0.010	8.0	0.013	1.63	0.0282	18.6
CO-218	139	661.44	140	643.95	789.8	0.022	6.0	0.013	2.40	0.0352	23.2
CO-219	138	669.70	139	661.44	345.6	0.024	6.0	0.013	2.14	0.0220	20.5
CO-220	137	680.00	138	669.70	508.1	0.020	6.0	0.013	1.87	0.0167	16.8
CO-221	353	694.00	348	692.79	652.5	0.002	8.0	0.013	1.66	0.2763	60.8
CO-222	136	684.94	137	680.00	379.1	0.013	6.0	0.013	1.32	0.0088	13.5
CO-223	355	665.60	354	650.64	1,778.9	0.008	8.0	0.013	1.77	0.0449	50.7
CO-224	135	679.62	134	653.27	1,335.1	0.020	6.0	0.013	1.38	0.0062	16.3
CO-225	134	653.27	133	644.00	562.7	0.016	6.0	0.013	2.18	0.0361	21.0
CO-226	133	644.00	12th Street LS (Downtown)	622.00	549.6	0.040	6.0	0.013	2.98	0.0361	19.2
CO-227	356	667.08	320	648.58	2,402.2	0.008	8.0	0.013	2.04	0.0801	55.3
CO-228	132	627.15	12th Street LS (Downtown)	622.00	244.8	0.021	6.0	0.013	2.74	0.0592	26.3
CO-229	357	669.69	358	641.44	1,728.6	0.016	8.0	0.013	2.38	0.0554	60.0
CO-230	131	628.00	132	627.15	405.8	0.002	6.0	0.013	1.20	0.0592	35.6
CO-231	130	629.50	131	628.00	197.5	0.008	8.0	0.013	1.83	0.0574	25.6
CO-232	129	630.50	130	629.50	383.8	0.003	8.0	0.013	1.26	0.0574	23.0
CO-233	128	631.00	129	630.50	153.7	0.003	8.0	0.013	1.18	0.0359	22.4
CO-234	360	665.00	359	651.40	1,183.8	0.011	8.0	0.013	1.61	0.0229	25.4
CO-235	127	632.00	128	631.00	351.8	0.003	8.0	0.013	1.08	0.0305	18.8
CO-236	362	677.92	361	675.46	471.7	0.005	12.0	0.013	3.34	0.8994	51.6
CO-237	126	633.00	127	632.00	344.4	0.003	8.0	0.013	1.05	0.0269	17.7
CO-238	5	689.00	363	715.00	673.2	0.039	8.0	0.013	2.42	0.0211	29.6
CO-239	125	634.00	126	633.00	179.5	0.006	8.0	0.013	0.99	0.0108	13.3
CO-240	364	712.00	2	688.00	890.5	0.027	8.0	0.013	3.12	0.0766	33.7
CO-241	124	634.50	125	634.00	212.1	0.002	8.0	0.013	0.66	0.0072	9.5

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CO-242	365	714.00	364	712.00	276.5	0.007	8.0	0.013	1.83	0.0598	22.2
CO-243	123	635.37	126	633.00	321.6	0.007	8.0	0.013	1.05	0.0090	12.6
CO-244	366	715.00	365	714.00	306.0	0.003	8.0	0.013	1.03	0.0220	17.9
CO-245	122	635.00	127	632.00	178.5	0.017	8.0	0.013	0.84	0.0018	11.0
CO-246	367	726.00	366	715.00	807.7	0.014	8.0	0.013	1.63	0.0194	13.4
CO-247	121	635.41	127	632.00	173.3	0.020	8.0	0.013	0.89	0.0018	11.0
CO-248	368	700.00	7	694.00	460.6	0.013	8.0	0.013	2.16	0.0528	30.8
CO-249	120	635.00	128	631.00	150.1	0.027	8.0	0.013	1.40	0.0054	12.7
CO-250	369	718.00	368	700.00	841.0	0.021	8.0	0.013	1.88	0.0185	15.5
CO-251	119	634.00	126	633.00	500.8	0.002	8.0	0.013	0.62	0.0072	13.5
CO-252	370	713.00	368	700.00	1,071.5	0.012	8.0	0.013	1.70	0.0255	16.5
CO-253	118	627.79	117	626.32	289.7	0.005	8.0	0.013	0.55	0.0018	3.9
CO-254	371	700.00	7	694.00	1,023.4	0.006	8.0	0.013	1.99	0.1038	35.2
CO-255	117	626.32	116	618.45	198.6	0.040	6.0	0.013	1.19	0.0018	13.4
CO-256	372	711.50	371	700.00	310.2	0.037	8.0	0.013	2.85	0.0387	22.4
CO-257	115	621.81	116	618.45	445.2	0.008	6.0	0.013	1.54	0.0283	21.1
CO-258	373	723.00	372	711.50	1,099.7	0.010	8.0	0.013	1.56	0.0229	14.7
CO-259	114	623.31	115	621.81	233.6	0.006	6.0	0.013	1.33	0.0213	19.4
CO-260	374	713.00	372	711.50	582.4	0.003	8.0	0.013	0.80	0.0123	14.3
CO-261	113	628.33	114	623.31	342.6	0.015	6.0	0.013	1.41	0.0097	15.1
CO-262	421	703.00	371	700.00	712.0	0.004	8.0	0.013	1.44	0.0510	24.8
CO-263	375	728.00	421	703.00	1,201.3	0.021	8.0	0.013	2.42	0.0440	19.6
CO-264	1	698.09	376	696.53	355.3	0.004	8.0	0.013	1.77	0.1003	33.9
CO-265	112	615.01	111	611.01	237.9	0.017	6.0	0.013	1.59	0.0123	15.7
CO-266	420	703.53	376	696.53	605.5	0.012	8.0	0.013	2.28	0.0730	30.5
CO-267	377	706.51	420	703.53	298.4	0.010	8.0	0.013	1.98	0.0537	21.3
CO-268	111	611.01	110	608.70	275.6	0.008	6.0	0.013	1.48	0.0220	25.3
CO-269	378	713.85	377	706.51	733.8	0.010	8.0	0.013	1.64	0.0282	16.9
CO-270	110	608.70	109	604.00	344.3	0.014	6.0	0.013	2.48	0.0705	30.1
CO-271	379	714.15	377	706.51	764.5	0.010	8.0	0.013	1.59	0.0255	16.6

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CO-272	380	719.51	378	713.85	565.7	0.010	8.0	0.013	1.11	0.0079	10.8
CO-273	109	604.00	Meadowlands LS	575.00	387.8	0.075	6.0	0.013	4.51	0.0705	25.4
CO-275	116	618.45	108	614.00	188.1	0.024	6.0	0.013	2.38	0.0318	23.3
CO-276	376	696.53	381	694.75	339.3	0.005	8.0	0.013	2.21	0.1734	43.5
CO-277	108	614.00	110	608.70	259.6	0.020	6.0	0.013	2.45	0.0415	28.8
CO-278	381	694.75	382	703.00	251.3	0.033	8.0	0.013	2.76	0.0405	33.0
CO-279	107	614.58	110	608.70	315.6	0.019	6.0	0.013	1.40	0.0070	21.4
CO-280	419	707.83	382	703.00	385.6	0.013	8.0	0.013	1.97	0.0405	15.8
CO-281	383	719.54	419	707.83	1,171.0	0.010	8.0	0.013	1.67	0.0299	15.8
CO-282	418	708.77	381	694.75	473.6	0.030	8.0	0.013	2.71	0.0422	33.2
CO-283	384	719.84	418	708.77	1,106.7	0.010	8.0	0.013	1.65	0.0290	15.9
CO-284	385	685.81	341	679.33	484.7	0.013	12.0	0.013	3.96	0.4717	48.0
CO-285	105	622.00	104	617.00	414.5	0.012	8.0	0.013	1.22	0.0088	8.6
CO-286	386	687.25	385	685.81	641.4	0.002	12.0	0.013	2.07	0.4717	40.8
CO-287	104	617.00	103	615.00	206.6	0.010	8.0	0.013	1.26	0.0123	13.3
CO-288	387	688.61	386	687.25	444.9	0.003	12.0	0.013	2.32	0.4717	44.0
CO-289	103	615.00	102	609.00	1,139.8	0.005	8.0	0.013	1.42	0.0370	16.8
CO-290	388	693.02	390	692.34	257.6	0.003	12.0	0.013	2.20	0.4717	51.2
CO-291	102	609.00	101	608.00	117.7	0.008	8.0	0.013	1.68	0.0370	16.3
CO-292	389	710.00	388	693.02	1,344.6	0.013	8.0	0.013	1.83	0.0308	40.3
CO-293	101	608.00	100	607.00	152.9	0.007	8.0	0.013	1.53	0.0370	19.8
CO-294	100	607.00	99	604.00	533.6	0.006	8.0	0.013	1.75	0.0695	24.3
CO-295	99	604.00	98	600.83	341.8	0.009	8.0	0.013	2.24	0.0889	30.4
CO-296	390	692.34	387	692.22	161.6	0.001	12.0	0.013	1.36	0.4717	47.0
CO-297	98	600.83	97	600.00	397.2	0.002	8.0	0.013	1.34	0.0959	31.5
CO-298	391	695.51	388	693.02	1,082.9	0.002	12.0	0.013	2.05	0.4409	43.9
CO-299	97	600.00	96	597.00	421.0	0.007	8.0	0.013	2.14	0.1047	28.3
CO-300	392	696.28	391	695.51	286.3	0.003	12.0	0.013	2.14	0.4136	42.3
CO-301	96	597.00	95	592.25	458.7	0.010	8.0	0.013	2.50	0.1144	27.3

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CO-302	393	696.97	392	696.28	250.7	0.003	12.0	0.013	2.13	0.3942	40.0
CO-303	95	592.25	Meadowlands LS	575.00	518.3	0.033	8.0	0.013	3.78	0.1144	24.1
CO-304	394	697.75	393	696.97	281.7	0.003	12.0	0.013	2.11	0.3749	38.7
CO-305	106	619.36	94	614.07	439.9	0.012	6.0	0.013	1.59	0.0185	17.9
CO-306	395	700.29	394	697.75	850.9	0.003	10.0	0.013	1.69	0.1461	37.6
CO-307	94	614.07	100	607.00	458.6	0.015	6.0	0.013	1.92	0.0255	25.2
CO-308	396	702.14	395	700.29	698.9	0.003	10.0	0.013	1.34	0.0766	25.7
CO-309	397	702.95	396	702.14	269.9	0.003	10.0	0.013	1.34	0.0651	20.7
CO-310	93	617.16	99	604.00	836.4	0.016	6.0	0.013	1.68	0.0158	24.6
CO-311	92	615.00	91	604.57	476.8	0.022	6.0	0.013	1.43	0.0062	10.7
CO-312	398	731.00	397	702.95	849.2	0.033	8.0	0.013	2.36	0.0238	18.7
CO-313	91	604.57	96	597.00	216.8	0.035	6.0	0.013	1.92	0.0097	25.2
CO-314	90	635.00	89	634.00	343.2	0.003	8.0	0.013	1.81	0.1849	41.7
CO-315	399	707.85	395	700.29	435.5	0.017	8.0	0.013	2.60	0.0695	29.6
CO-316	89	634.00	88	630.05	411.2	0.010	8.0	0.013	2.80	0.1849	35.3
CO-317	88	630.05	87	625.84	523.1	0.008	8.0	0.013	2.62	0.1849	36.1
CO-318	400	709.00	399	707.85	271.3	0.004	8.0	0.013	1.58	0.0695	23.7
CO-319	87	625.84	189	620.00	375.6	0.016	8.0	0.013	3.32	0.1849	68.3
CO-320	86	669.00	179	665.00	760.4	0.005	6.0	0.013	0.73	0.0036	31.5
CO-321	85	675.00	177	668.00	890.7	0.008	8.0	0.013	2.67	0.2051	40.3
CO-322	401	723.00	394	697.75	1,998.2	0.013	8.0	0.013	3.22	0.2182	48.9
CO-323	84	682.00	85	675.00	564.1	0.012	8.0	0.013	3.09	0.1910	38.5
CO-324	402	741.00	401	723.00	1,418.8	0.013	8.0	0.013	2.46	0.0845	32.6
CO-325	83	686.00	84	682.00	209.2	0.019	8.0	0.013	2.57	0.0598	29.3
CO-326	403	744.00	402	741.00	790.9	0.004	8.0	0.013	1.27	0.0378	21.9
CO-327	82	686.50	83	686.00	151.9	0.003	8.0	0.013	1.36	0.0572	22.5
CO-328	404	755.00	403	744.00	836.8	0.013	8.0	0.013	1.61	0.0194	15.3
CO-329	81	687.00	82	686.50	133.5	0.004	8.0	0.013	1.39	0.0519	23.2
CO-330	405	753.00	403	744.00	588.3	0.015	8.0	0.013	1.66	0.0185	15.2

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CO-331	80	688.00	83	686.00	320.5	0.006	8.0	0.013	0.67	0.0026	12.8
CO-332	406	732.00	401	723.00	1,155.9	0.008	8.0	0.013	2.36	0.1338	35.9
CO-333	407	736.00	406	732.00	664.2	0.006	8.0	0.013	2.02	0.1056	29.8
CO-334	78	661.50	79	659.00	324.9	0.008	8.0	0.013	2.26	0.1153	29.5
CO-335	408	737.00	407	736.00	270.9	0.004	8.0	0.013	1.44	0.0598	26.1
CO-336	77	662.00	78	661.50	50.3	0.010	8.0	0.013	2.44	0.1100	28.7
CO-337	409	757.00	408	737.00	1,140.8	0.018	8.0	0.013	2.12	0.0343	19.8
CO-338	76	665.00	77	662.00	485.5	0.006	8.0	0.013	1.54	0.0405	22.9
CO-339	410	755.00	408	737.00	1,141.4	0.016	8.0	0.013	1.86	0.0255	18.7
CO-340	75	669.00	76	665.00	475.3	0.008	8.0	0.013	1.63	0.0343	16.5
CO-341	411	740.00	397	702.95	1,072.5	0.035	8.0	0.013	2.83	0.0414	20.8
CO-342	74	672.00	75	669.00	401.4	0.007	8.0	0.013	1.46	0.0273	14.8
CO-346	413	711.00	394	697.75	639.1	0.021	8.0	0.013	1.56	0.0106	32.9
CO-347	414	705.00	393	696.97	610.2	0.013	8.0	0.013	1.61	0.0194	35.3
CO-348	415	702.50	392	696.28	607.9	0.010	8.0	0.013	1.47	0.0194	36.3
CO-349	73	698.00	72	696.00	255.4	0.008	6.0	0.013	0.83	0.0035	9.6
CO-350	416	715.47	4	703.96	1,151.0	0.010	8.0	0.013	1.77	0.0370	17.8
CO-351	72	696.00	71	682.00	576.3	0.024	6.0	0.013	1.68	0.0097	13.9
CO-352	417	712.02	3	700.75	1,127.0	0.010	8.0	0.013	1.73	0.0334	17.9
CO-353	71	682.00	70	674.00	390.1	0.021	8.0	0.013	1.89	0.0202	13.3
CO-354	422	639.60	203	639.30	133.7	0.002	8.0	0.013	0.42	0.0018	67.0
CO-355	70	674.00	69	672.22	263.7	0.007	8.0	0.013	1.45	0.0299	17.8
CO-356	423	643.00	424	625.81	1,116.5	0.015	8.0	0.013	2.83	0.1080	47.1
CO-357	205	613.90	425	612.00	43.1	0.044	8.0	0.013	4.23	0.1188	23.9
CO-358	426	606.67	427	605.83	294.4	0.003	30.0	0.013	3.43	2.6656	29.4
CO-359	427	605.83	428	604.98	300.8	0.003	30.0	0.013	3.41	2.6656	28.2
CO-360	68	691.50	69	672.22	1,223.9	0.016	6.0	0.013	1.73	0.0176	22.0
CO-361	428	604.98	429	604.14	212.1	0.004	30.0	0.013	3.85	2.6656	30.0
CO-362	429	604.14	430	603.75	203.9	0.002	30.0	0.013	2.97	2.6656	35.4
CO-363	67	686.00	66	671.00	1,226.7	0.012	6.0	0.013	1.59	0.0176	23.0

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CO-364	430	603.75	431	603.57	84.1	0.002	30.0	0.013	3.30	3.3728	39.4
CO-365	431	603.57	432	603.16	317.5	0.001	30.0	0.013	2.74	3.3728	40.8
CO-366	69	672.22	66	671.00	273.5	0.004	8.0	0.013	1.46	0.0502	21.7
CO-367	66	671.00	77	662.00	275.9	0.033	8.0	0.013	3.24	0.0695	25.4
CO-368	432	603.16	433	602.41	556.6	0.001	30.0	0.013	2.79	3.3728	35.4
CO-369	433	602.41	Justin Treatment Plant	596.00	189.0	0.034	30.0	0.013	8.83	3.3728	24.0
CO-370	65	684.00	208	681.50	426.9	0.006	8.0	0.013	1.34	0.0273	17.4
CO-372(1)	438	670.33	460	664.17	1,000.5	0.006	21.0	0.013	3.06	0.6204	19.4
CO-372(2)	460	664.17	435	635.85	4,596.4	0.006	21.0	0.013	3.07	0.6204	19.4
CO-373	64	686.50	65	684.00	448.6	0.006	8.0	0.013	1.14	0.0167	13.1
CO-374	435	635.85	436	628.55	1,213.7	0.006	30.0	0.013	2.90	0.6204	13.7
CO-375	63	691.00	64	686.50	258.3	0.017	8.0	0.013	1.20	0.0053	8.9
CO-376	436	628.55	437	627.00	630.3	0.002	30.0	0.013	2.12	0.6204	13.7
CO-377	62	688.00	64	686.50	95.2	0.016	8.0	0.013	0.82	0.0018	7.6
CO-378(1)	437	627.00	473	626.31	134.1	0.005	30.0	0.013	2.75	0.6204	12.5
CO-378(2)	473	626.31	323	619.50	1,317.2	0.005	30.0	0.013	2.75	0.6204	18.6
CO-379	61	691.00	60	686.00	484.7	0.010	8.0	0.013	1.24	0.0106	10.2
CO-380	240	702.58	337	706.45	884.6	0.004	8.0	0.013	1.74	0.0950	30.6
CO-381	60	686.00	59	683.50	313.1	0.008	8.0	0.013	1.35	0.0194	12.1
CO-382	280	606.77	Timberbrooks LS	606.50	58.8	0.005	12.0	0.013	3.34	1.1106	59.1
CO-383	59	683.50	208	681.50	258.1	0.008	8.0	0.013	1.39	0.0220	16.3
CO-384	439	682.54	441	675.45	178.5	0.040	15.0	0.013	6.15	0.6204	24.6
CO-385	441	675.45	438	670.33	345.8	0.015	15.0	0.013	4.34	0.6204	27.2
CO-386	58	689.97	60	686.00	174.0	0.023	8.0	0.013	0.94	0.0018	7.6
CO-387	440	686.12	439	682.54	300.9	0.012	15.0	0.013	4.02	0.6204	27.9
CO-388	57	681.00	56	668.31	413.5	0.031	8.0	0.013	1.83	0.0114	7.7
CO-390	56	668.31	55	665.37	237.4	0.012	8.0	0.013	1.35	0.0114	10.8

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CO-392	54	678.00	55	665.37	306.6	0.041	8.0	0.013	1.88	0.0088	10.3
CO-394	53	677.22	52	666.26	424.4	0.026	8.0	0.013	1.76	0.0123	10.1
CO-396	51	672.00	52	666.26	215.7	0.027	8.0	0.013	1.14	0.0026	7.6
CO-398	50	681.00	49	674.00	385.5	0.018	8.0	0.013	1.49	0.0106	9.3
CO-401	49	674.00	225	669.14	252.1	0.019	8.0	0.013	1.68	0.0141	22.9
CO-408	47	676.59	46	659.46	1,248.2	0.014	8.0	0.013	1.91	0.0326	19.3
CO-410	48	677.33	45	651.86	997.6	0.026	8.0	0.013	2.01	0.0185	18.2
CO-413	46	659.46	344	670.00	702.0	0.015	8.0	0.013	1.75	0.0220	17.9
CO-414	343	670.00	45	651.86	985.0	0.018	8.0	0.013	1.92	0.0238	18.9
CO-416	44	629.32	204	627.53	373.1	0.005	8.0	0.013	2.24	0.2086	41.3
CO-418	45	651.86	43	630.25	914.1	0.024	8.0	0.013	3.08	0.0854	33.8
CO-420	43	630.25	44	629.32	188.0	0.005	8.0	0.013	2.27	0.2086	42.9
CO-422	52	666.26	42	647.00	256.6	0.075	8.0	0.013	2.81	0.0167	8.6
CO-424	42	647.00	41	639.00	365.7	0.022	8.0	0.013	1.84	0.0167	17.5
CO-426	312	645.00	40	641.95	208.3	0.015	8.0	0.013	2.02	0.0361	14.7
CO-428	40	641.95	39	622.00	373.0	0.053	8.0	0.013	3.17	0.0361	22.8
CO-430	39	622.00	205	613.90	413.0	0.020	8.0	0.013	3.18	0.1188	25.9
CO-431	38	621.00	93	617.16	148.3	0.026	6.0	0.013	1.15	0.0026	10.7
CO-432	37	621.00	106	619.36	208.5	0.008	6.0	0.013	0.68	0.0018	10.9
CO-433	36	624.00	108	614.00	405.8	0.025	6.0	0.013	1.60	0.0079	17.8
CO-434	35	624.00	106	619.36	483.3	0.010	6.0	0.013	1.18	0.0088	13.9
CO-435	34	626.99	112	615.01	303.4	0.039	12.0	0.013	1.64	0.0070	5.5
CO-436	33	662.09	183	649.00	1,015.0	0.013	6.0	0.013	1.45	0.0123	39.3
CO-437	32	669.74	182	650.00	1,097.2	0.018	6.0	0.013	1.76	0.0158	47.1
CO-438	31	649.81	171	646.05	291.6	0.013	6.0	0.013	0.99	0.0035	10.7
CO-439	30	641.00	172	639.48	265.3	0.006	6.0	0.013	0.76	0.0036	12.6
CO-440	29	658.29	28	638.00	776.5	0.026	6.0	0.013	1.58	0.0071	10.7
CO-441	28	638.00	27	637.33	55.4	0.012	6.0	0.013	1.28	0.0089	10.8
CO-442	27	637.33	167	629.20	165.0	0.049	6.0	0.013	2.09	0.0089	55.7
CO-443	26	656.00	185	645.00	726.4	0.015	6.0	0.013	1.57	0.0132	38.5

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-444	25	639.27	173	626.80	539.7	0.023	6.0	0.010	1.94	0.0088	55.6
CO-445	24	633.00	131	628.00	139.7	0.036	8.0	0.013	1.11	0.0018	17.2
CO-446	23	632.98	129	630.50	282.6	0.009	8.0	0.013	0.68	0.0018	14.6
CO-447	160	635.27	12th Street LS (Downtown)	622.00	328.5	0.040	8.0	0.013	3.39	0.0626	17.4
CO-448(1)	22	651.05	477	648.99	743.5	0.003	10.0	0.013	1.27	0.0600	19.2
CO-448(2)	477	648.99	292	647.93	381.5	0.003	10.0	0.013	1.27	0.0600	25.9
CO-449	21	641.91	358	641.44	147.6	0.003	12.0	0.013	2.90	1.1836	79.5
CO-450	358	641.44	202	640.44	347.3	0.003	12.0	0.013	2.77	1.2461	76.9
CO-452	20	696.00	19	693.50	751.8	0.003	8.0	0.013	0.59	0.0035	5.6
CO-453	19	693.50	18	688.75	321.3	0.015	8.0	0.013	1.00	0.0035	12.6
CO-454	17	660.12	359	651.40	1,003.1	0.009	8.0	0.013	2.58	0.1584	36.2
CO-455	359	651.40	202	640.44	551.3	0.020	8.0	0.013	3.68	0.1945	69.0
CO-456	18	688.75	81	687.00	325.0	0.005	8.0	0.013	1.58	0.0519	21.3
CO-462	320	648.58	21	641.91	866.7	0.008	12.0	0.013	4.14	1.1836	66.9
CO-464	14	677.74	285	665.28	1,010.6	0.012	8.0	0.013	1.46	0.0150	12.5
CO-465	79	659.00	12th Street LS (Private)	645.00	403.8	0.035	8.0	0.013	3.92	0.1223	24.8
CO-466	13	636.61	12	626.00	1,177.1	0.009	8.0	0.013	0.85	0.0036	6.1
CO-467	12	626.00	114	623.31	227.5	0.012	8.0	0.013	1.14	0.0072	10.5
CO-468	11	635.83	12	626.00	1,238.6	0.008	8.0	0.013	0.81	0.0036	6.2
CO-469	10	611.22	9	600.00	731.6	0.015	10.0	0.013	1.76	0.0240	9.0
CO-470	9	600.00	8	597.00	587.0	0.005	18.0	0.013	1.10	0.0240	23.0
CO-471	8	597.00	Justin Treatment Plant	596.00	132.8	0.008	24.0	0.013	4.55	1.9873	28.7
CO-474	425	609.57	426	606.67	473.4	0.006	30.0	0.013	4.36	2.3901	27.3
CO-475	189	620.00	8	597.00	298.0	0.077	18.0	0.013	10.69	1.9633	33.0
CO-476	7	694.00	6	692.50	512.8	0.003	8.0	0.013	1.73	0.1566	41.5

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-477	6	692.50	5	689.00	1,067.3	0.003	8.0	0.013	1.81	0.1566	43.9
CO-478	4	703.96	1	698.09	835.9	0.007	8.0	0.013	1.74	0.0519	24.6
CO-479	5	689.00	2	688.00	386.2	0.003	8.0	0.013	1.71	0.1778	45.4
CO-480	2	688.00	336	677.25	291.3	0.037	8.0	0.013	4.96	0.2543	35.8
CO-481	3	700.75	1	698.09	564.1	0.005	8.0	0.013	1.47	0.0484	25.1
CO-482	381	694.75	353	694.00	162.1	0.005	8.0	0.013	2.33	0.2561	59.0

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Outfall Table

Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Flow (Total Out) (MGD)
Meadowlands LS	600.74	575.00	0.1849
12th Street LS (Private)	666.05	645.00	0.1223
12th Street LS (Downtown)	637.00	622.00	0.1579
Timberbrooks LS	626.50	606.50	1.1106
Justin Treatment Plant	616.27	596.00	5.3601

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
1	710.15	698.09	0.0000	0.0251	0.0251
2	697.00	688.00	0.0000	0.0636	0.0636
3	713.23	700.75	0.0037	0.0084	0.0121
4	715.75	703.96	0.0037	0.0092	0.0130
5	699.00	689.00	0.0000	0.0444	0.0444
6	701.00	692.50	0.0000	0.0392	0.0392
7	701.00	694.00	0.0000	0.0392	0.0392
8	616.65	597.00	0.0000	2.0286	2.0286
9	624.36	600.00	0.0000	0.0060	0.0060
10	615.22	611.22	0.0060	0.0000	0.0060
11	639.83	635.83	0.0009	0.0000	0.0009
12	630.00	626.00	0.0000	0.0018	0.0018
13	640.61	636.61	0.0009	0.0000	0.0009
14	684.46	677.74	0.0037	0.0000	0.0037
15	665.40	656.95	0.0020	0.3324	0.3344
16	690.00	683.00	0.0411	0.0000	0.0411
17	672.00	660.12	0.0068	0.0328	0.0396
18	695.45	688.75	0.0121	0.0818	0.0939
19	700.00	693.50	0.0000	0.0818	0.0818
20	702.00	696.00	0.0818	0.0000	0.0818
21	655.88	641.91	0.0000	0.3689	0.3689
22	671.67	651.05	0.0000	0.1497	0.1497
23	636.98	632.98	0.0004	0.0000	0.0004
24	637.85	633.00	0.0004	0.0000	0.0004
25	643.27	639.27	0.0022	0.0000	0.0022
26	663.00	656.00	0.0033	0.0000	0.0033
27	641.33	637.33	0.0000	0.0022	0.0022
28	642.00	638.00	0.0004	0.0018	0.0022
29	662.29	658.29	0.0018	0.0000	0.0018
30	645.00	641.00	0.0009	0.0000	0.0009
31	653.81	649.81	0.0009	0.0000	0.0009
32	681.00	669.74	0.0040	0.0000	0.0040
33	673.00	662.09	0.0031	0.0000	0.0031
34	630.99	626.99	0.0018	0.0000	0.0018
35	628.00	624.00	0.0022	0.0000	0.0022
36	628.00	624.00	0.0020	0.0000	0.0020
37	625.00	621.00	0.0004	0.0000	0.0004
38	625.00	621.00	0.0007	0.0000	0.0007
39	626.00	622.00	0.0004	0.0293	0.0297
40	645.95	641.95	0.0000	0.0090	0.0090
41	646.00	639.00	0.0022	0.0180	0.0202
42	654.00	647.00	0.0000	0.0042	0.0042
43	639.22	630.25	0.0000	0.0521	0.0521
44	635.02	629.32	0.0000	0.0521	0.0521
45	664.58	651.86	0.0051	0.0163	0.0213
46	671.94	659.46	0.0051	0.0136	0.0187

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
47	683.37	676.59	0.0081	0.0000	0.0081
48	683.31	677.33	0.0046	0.0000	0.0046
49	680.62	674.00	0.0009	0.0026	0.0035
50	685.00	681.00	0.0026	0.0000	0.0026
51	679.25	672.00	0.0007	0.0000	0.0007
52	670.26	666.26	0.0004	0.0037	0.0042
53	681.22	677.22	0.0031	0.0000	0.0031
54	682.00	678.00	0.0022	0.0000	0.0022
55	669.37	665.37	0.0007	0.0051	0.0057
56	672.31	668.31	0.0000	0.0029	0.0029
57	685.00	681.00	0.0029	0.0000	0.0029
58	693.97	689.97	0.0004	0.0000	0.0004
59	692.00	683.50	0.0007	0.0048	0.0055
60	693.50	686.00	0.0018	0.0031	0.0048
61	695.00	691.00	0.0026	0.0000	0.0026
62	692.00	688.00	0.0004	0.0000	0.0004
63	695.00	691.00	0.0013	0.0000	0.0013
64	693.29	686.50	0.0024	0.0018	0.0042
65	691.97	684.00	0.0026	0.0042	0.0068
66	675.00	671.00	0.0004	0.0169	0.0174
67	689.00	686.00	0.0044	0.0000	0.0044
68	695.50	691.50	0.0044	0.0000	0.0044
69	676.19	672.22	0.0007	0.0119	0.0125
70	678.00	674.00	0.0024	0.0051	0.0075
71	686.09	682.00	0.0026	0.0024	0.0051
72	700.00	696.00	0.0015	0.0009	0.0024
73	702.00	698.00	0.0009	0.0000	0.0009
74	681.64	672.00	0.0068	0.0000	0.0068
75	684.00	669.00	0.0018	0.0068	0.0086
76	680.71	665.00	0.0015	0.0086	0.0101
77	673.00	662.00	0.0000	0.0275	0.0275
78	673.00	661.50	0.0013	0.0275	0.0288
79	670.00	659.00	0.0018	0.0288	0.0306
80	692.64	688.00	0.0007	0.0000	0.0007
81	697.00	687.00	0.0000	0.0939	0.0939
82	696.89	686.50	0.0013	0.0939	0.0952
83	695.07	686.00	0.0000	0.0959	0.0959
84	692.67	682.00	0.1245	0.0959	0.2204
85	686.04	675.00	0.0035	0.2204	0.2239
86	676.00	669.00	0.0009	0.0000	0.0009
87	629.75	625.84	0.0000	0.1849	0.1849
88	634.05	630.05	0.0000	0.1849	0.1849
89	638.00	634.00	0.0000	0.1849	0.1849
90	639.00	635.00	0.1849	0.0000	0.1849
91	608.57	604.57	0.0009	0.0015	0.0024
92	619.26	615.00	0.0015	0.0000	0.0015

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
93	621.16	617.16	0.0033	0.0007	0.0040
94	618.07	614.07	0.0018	0.0046	0.0064
95	596.25	592.25	0.0000	0.0286	0.0286
96	604.14	597.00	0.0000	0.0286	0.0286
97	604.00	600.00	0.0022	0.0240	0.0262
98	604.83	600.83	0.0018	0.0222	0.0240
99	615.32	604.00	0.0009	0.0213	0.0222
100	613.82	607.00	0.0018	0.0156	0.0174
101	613.00	608.00	0.0000	0.0092	0.0092
102	612.36	609.00	0.0000	0.0092	0.0092
103	617.60	615.00	0.0062	0.0031	0.0092
104	623.40	617.00	0.0009	0.0022	0.0031
105	630.59	622.00	0.0022	0.0000	0.0022
106	623.36	619.36	0.0020	0.0026	0.0046
107	618.58	614.58	0.0018	0.0000	0.0018
108	618.00	614.00	0.0004	0.0099	0.0104
109	608.00	604.00	0.0000	0.0176	0.0176
110	612.70	608.70	0.0000	0.0176	0.0176
111	615.01	611.01	0.0024	0.0031	0.0055
112	619.01	615.01	0.0013	0.0018	0.0031
113	632.33	628.33	0.0024	0.0000	0.0024
114	627.31	623.31	0.0011	0.0042	0.0053
115	625.81	621.81	0.0018	0.0053	0.0071
116	622.45	618.45	0.0004	0.0075	0.0080
117	630.32	626.32	0.0000	0.0004	0.0004
118	631.79	627.79	0.0004	0.0000	0.0004
119	636.30	634.00	0.0018	0.0000	0.0018
120	639.00	635.00	0.0013	0.0000	0.0013
121	638.41	635.41	0.0004	0.0000	0.0004
122	638.00	635.00	0.0004	0.0000	0.0004
123	639.37	635.37	0.0022	0.0000	0.0022
124	637.33	634.50	0.0018	0.0000	0.0018
125	639.71	634.00	0.0009	0.0018	0.0027
126	640.00	633.00	0.0000	0.0067	0.0067
127	638.00	632.00	0.0000	0.0076	0.0076
128	638.00	631.00	0.0000	0.0090	0.0090
129	639.00	630.50	0.0049	0.0094	0.0143
130	638.52	629.50	0.0000	0.0143	0.0143
131	638.93	628.00	0.0000	0.0148	0.0148
132	631.15	627.15	0.0000	0.0148	0.0148
133	648.00	644.00	0.0000	0.0090	0.0090
134	657.27	653.27	0.0075	0.0015	0.0090
135	683.62	679.62	0.0015	0.0000	0.0015
136	688.94	684.94	0.0022	0.0000	0.0022
137	684.00	680.00	0.0020	0.0022	0.0042
138	673.70	669.70	0.0013	0.0042	0.0055

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
139	665.44	661.44	0.0033	0.0055	0.0088
140	647.95	643.95	0.0004	0.0088	0.0092
141	649.63	645.63	0.0020	0.0044	0.0064
142	655.77	651.77	0.0009	0.0035	0.0044
143	666.41	662.41	0.0020	0.0015	0.0035
144	676.16	672.16	0.0015	0.0000	0.0015
145	650.00	646.00	0.0029	0.0066	0.0095
146	654.80	650.80	0.0015	0.0051	0.0066
147	663.89	659.89	0.0020	0.0031	0.0051
148	684.50	680.50	0.0031	0.0000	0.0031
149	659.42	655.42	0.0031	0.0053	0.0084
150	682.72	678.72	0.0053	0.0000	0.0053
151	679.20	675.20	0.0044	0.0000	0.0044
152	680.00	676.00	0.0024	0.0000	0.0024
153	642.65	631.50	0.0009	1.4128	1.4137
154	667.28	663.28	0.0040	0.0073	0.0113
155	671.41	667.41	0.0000	0.0029	0.0029
156	678.17	674.17	0.0000	0.0029	0.0029
157	678.92	674.92	0.0004	0.0000	0.0004
158	642.00	630.50	0.0009	1.4177	1.4186
159	674.11	670.11	0.0040	0.0000	0.0040
160	639.27	635.27	0.0000	0.0157	0.0157
161	641.92	636.92	0.0000	0.0064	0.0064
162	644.00	634.50	1.3827	0.0095	1.3923
163	643.00	633.00	0.0009	1.4007	1.4016
164	641.74	631.00	0.0000	1.4137	1.4137
165	643.00	630.00	0.0000	1.4186	1.4186
166	641.00	629.50	0.0000	1.4186	1.4186
167	640.87	629.20	0.0004	1.4208	1.4212
168	639.51	628.50	0.0000	1.4263	1.4263
169	669.64	665.64	0.0018	0.0000	0.0018
170	657.00	653.00	0.0004	0.0018	0.0022
171	650.05	646.05	0.0004	0.0031	0.0035
172	643.48	639.48	0.0007	0.0044	0.0051
173	638.23	626.80	0.0000	1.4285	1.4285
174	657.00	645.64	0.0029	0.0000	0.0029
175	689.00	679.19	0.0029	0.0000	0.0029
176	676.00	669.00	0.0002	0.1590	0.1592
177	675.00	668.00	0.0000	0.3831	0.3831
178	675.00	666.00	0.0000	0.3831	0.3831
179	675.00	665.00	0.0013	0.3840	0.3854
180	668.00	661.00	0.0031	0.3854	0.3884
181	657.50	652.00	0.0004	0.3884	0.3889
182	656.00	650.00	0.0011	0.3928	0.3939
183	656.00	649.00	0.0002	0.3970	0.3972
184	655.00	648.00	0.0007	0.3972	0.3979

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
185	655.00	645.00	0.0015	0.4012	0.4027
186	650.00	640.10	0.0013	0.4056	0.4069
187	636.81	625.80	0.0009	0.4069	0.4078
188	634.90	625.00	0.0000	1.8363	1.8363
189	630.12	620.00	0.0000	2.0226	2.0226
190	633.16	624.00	0.0013	1.8363	1.8377
191	642.00	630.32	0.0057	0.0000	0.0057
192	639.34	635.34	0.0055	0.0000	0.0055
193	661.00	650.50	0.0128	0.0000	0.0128
194	663.00	656.00	0.0145	0.0000	0.0145
195	652.00	645.00	0.0057	0.0273	0.0330
196	660.00	653.00	0.0092	0.0000	0.0092
197	643.00	631.95	0.0009	0.0092	0.0101
198	641.00	630.48	0.0002	0.0431	0.0433
199	640.00	629.51	0.0000	0.0488	0.0488
200	640.00	629.00	0.0090	0.0488	0.0579
201	640.00	628.50	0.0009	0.0636	0.0645
202	657.86	640.44	0.0000	0.4331	0.4331
203	651.68	639.30	0.0000	0.4336	0.4336
204	635.35	627.53	0.0000	0.0521	0.0521
205	627.03	613.90	0.0000	0.0297	0.0297
206	642.00	630.70	0.0044	0.0000	0.0044
207	637.00	626.60	0.0000	0.0689	0.0689
208	692.00	681.50	0.0011	0.0123	0.0134
209	691.63	687.63	0.0009	0.0000	0.0009
210	692.87	688.87	0.0009	0.0000	0.0009
211	692.00	686.00	0.0013	0.0018	0.0031
212	688.97	680.00	0.0009	0.0165	0.0174
213	682.39	678.39	0.0007	0.0174	0.0180
214	678.00	673.10	0.0009	0.0180	0.0189
215	694.00	690.00	0.0037	0.0000	0.0037
216	684.36	672.00	0.0009	0.0227	0.0235
217	691.85	687.85	0.0044	0.0000	0.0044
218	685.00	670.90	0.0009	0.0279	0.0288
219	693.50	689.42	0.0004	0.0000	0.0004
220	692.65	688.63	0.0018	0.0004	0.0022
221	687.02	683.02	0.0007	0.0022	0.0029
222	680.80	676.80	0.0011	0.0029	0.0040
223	688.76	684.76	0.0042	0.0000	0.0042
224	681.00	669.80	0.0004	0.0330	0.0334
225	678.34	669.14	0.0002	0.0370	0.0372
226	675.00	668.49	0.0002	0.0411	0.0414
227	675.00	668.10	0.0000	0.0414	0.0414
228	667.43	663.43	0.0000	0.0414	0.0414
229	660.66	656.66	0.0000	0.0414	0.0414
230	652.07	648.07	0.0000	0.0954	0.0954

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
231	617.00	613.00	0.0000	0.3323	0.3323
232	623.02	619.02	0.0000	0.3323	0.3323
233	634.54	630.54	0.0004	0.3044	0.3048
234	642.74	633.00	0.0004	0.3040	0.3044
235	645.01	634.00	0.0013	0.3026	0.3040
236	646.60	637.50	0.0000	0.3026	0.3026
237	646.27	637.60	0.0000	0.3026	0.3026
238	649.49	645.49	0.0013	0.2059	0.2072
239	654.00	647.00	0.0004	0.2055	0.2059
240	715.79	702.58	0.0051	0.0238	0.0288
241	713.78	701.32	0.0077	0.0288	0.0365
242	707.86	697.69	0.0000	0.0528	0.0528
243	708.74	696.43	0.0064	0.0528	0.0592
244	709.51	694.41	0.0092	0.0592	0.0684
245	697.57	685.41	0.0007	0.0737	0.0744
246	702.25	695.20	0.0053	0.0000	0.0053
247	699.14	684.09	0.0009	0.0836	0.0845
248	693.35	682.77	0.0009	0.0975	0.0983
249	683.16	672.11	0.0004	0.1005	0.1010
250	668.43	660.38	0.0015	0.1043	0.1058
251	690.59	684.04	0.0033	0.0000	0.0033
252	656.00	647.39	0.0000	0.1846	0.1846
253	652.94	646.89	0.0000	0.1846	0.1846
254	628.48	619.55	0.0009	0.2191	0.2200
255	634.67	627.08	0.0040	0.0000	0.0040
256	651.29	640.84	0.0018	0.0275	0.0293
257	679.35	670.87	0.0051	0.0000	0.0051
258	659.57	648.16	0.0011	0.0213	0.0224
259	661.88	652.60	0.0024	0.0097	0.0121
260	685.49	673.84	0.0055	0.0042	0.0097
261	702.55	696.00	0.0042	0.0000	0.0042
262	684.59	677.53	0.0092	0.0000	0.0092
263	666.17	658.54	0.0033	0.0068	0.0101
264	642.59	634.66	0.0009	0.0134	0.0143
265	671.57	665.52	0.0033	0.0000	0.0033
266	638.66	628.22	0.0018	0.0211	0.0229
267	653.78	643.95	0.0020	0.0048	0.0068
268	654.48	647.43	0.0048	0.0000	0.0048
269	653.36	646.31	0.0035	0.0000	0.0035
270	626.58	617.80	0.0026	0.2350	0.2376
271	661.10	652.34	0.0103	0.0000	0.0103
272	627.49	618.69	0.0011	0.2303	0.2314
273	632.66	615.97	0.0029	0.2411	0.2440
274	646.22	640.17	0.0035	0.0000	0.0035
275	626.83	614.51	0.0009	0.2669	0.2677
276	626.86	613.48	0.0040	0.2702	0.2741

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
277	623.97	610.89	0.0000	0.2776	0.2776
278	628.22	622.17	0.0035	0.0000	0.0035
279	629.72	623.67	0.0024	0.0000	0.0024
280	624.65	606.77	0.0000	0.3906	0.3906
281	621.00	607.50	0.0000	0.0434	0.0434
282	680.94	673.59	0.0022	0.0000	0.0022
283	713.91	705.91	0.0092	0.0000	0.0092
284	709.71	699.50	0.0163	0.0000	0.0163
285	676.69	665.28	0.0000	0.0059	0.0059
286	684.35	677.74	0.0169	0.0000	0.0169
287	686.89	679.40	0.0022	0.0000	0.0022
288	681.88	675.31	0.0055	0.0000	0.0055
289	674.27	661.54	0.0000	0.0158	0.0158
290	680.15	662.79	0.0022	0.0081	0.0103
291	678.42	664.04	0.0022	0.0059	0.0081
292	657.93	647.93	0.0000	0.2055	0.2055
293	688.12	680.00	0.0051	0.0000	0.0051
294	685.74	675.28	0.0011	0.0079	0.0090
295	686.10	677.87	0.0029	0.0000	0.0029
296	686.35	674.16	0.0009	0.0106	0.0114
297	686.50	679.94	0.0015	0.0000	0.0015
298	687.19	673.27	0.0011	0.0123	0.0134
299	687.72	680.79	0.0009	0.0000	0.0009
300	683.66	672.05	0.0051	0.0167	0.0218
301	689.48	683.51	0.0033	0.0000	0.0033
302	674.98	667.28	0.0000	0.0350	0.0350
303	688.39	683.19	0.0057	0.0000	0.0057
304	690.09	684.74	0.0075	0.0000	0.0075
305	692.12	678.88	0.0000	0.2945	0.2945
306	677.34	663.81	0.0035	0.3071	0.3106
307	673.34	665.85	0.0079	0.0139	0.0218
308	685.55	677.81	0.0048	0.0000	0.0048
309	683.15	668.86	0.0090	0.0000	0.0090
310	672.84	665.47	0.0022	0.0000	0.0022
311	673.46	666.46	0.0139	0.0000	0.0139
312	652.00	645.00	0.0090	0.0000	0.0090
313	655.00	649.00	0.0000	0.0540	0.0540
314	660.00	656.00	0.0000	0.0405	0.0405
315	665.00	658.50	0.0000	0.0270	0.0270
316	671.00	664.00	0.0135	0.0000	0.0135
317	677.00	670.00	0.0135	0.0000	0.0135
318	670.00	663.00	0.0135	0.0000	0.0135
319	673.00	667.00	0.0135	0.0000	0.0135
320	659.72	648.58	0.0018	0.3671	0.3689
321	652.90	639.66	0.0000	0.4331	0.4331
322	661.52	651.66	0.0000	0.0350	0.0350

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
323	642.14	619.50	0.0000	3.4641	3.4641
324	644.75	634.24	0.0121	0.0187	0.0308
325	669.84	662.79	0.0068	0.0000	0.0068
326	631.39	620.64	0.0013	0.0293	0.0306
327	667.06	660.05	0.0000	0.0788	0.0788
328	687.80	678.10	0.0020	0.0132	0.0152
329	703.09	695.12	0.0046	0.0086	0.0132
330	707.36	699.70	0.0040	0.0046	0.0086
331	712.25	705.20	0.0020	0.0026	0.0046
332	716.88	709.51	0.0026	0.0000	0.0026
333	715.72	708.81	0.0130	0.0000	0.0130
334	665.00	656.25	0.0000	0.0788	0.0788
335	663.00	657.00	0.0000	0.0788	0.0788
336	697.70	677.25	0.0000	0.0636	0.0636
337	714.42	706.45	0.0238	0.0000	0.0238
338	701.95	693.00	0.0055	0.0000	0.0055
339	698.12	683.00	0.0000	0.1036	0.1036
340	699.36	688.00	0.0000	0.0981	0.0981
341	692.05	679.33	0.0000	0.2945	0.2945
342	679.00	658.95	0.0150	0.1347	0.1497
343	676.08	670.00	0.0059	0.0000	0.0059
344	676.08	670.00	0.0055	0.0000	0.0055
345	635.35	614.98	0.0000	3.5162	3.5162
346	700.78	689.42	0.0000	0.0981	0.0981
347	710.14	698.78	0.0084	0.0000	0.0084
348	704.15	692.79	0.0024	0.0873	0.0898
349	709.01	697.65	0.0020	0.0163	0.0183
350	713.82	702.37	0.0000	0.0092	0.0092
351	719.97	708.52	0.0092	0.0000	0.0092
352	717.53	706.17	0.0070	0.0000	0.0070
353	710.67	694.00	0.0051	0.0640	0.0691
354	666.25	650.64	0.0015	0.3456	0.3471
355	675.60	665.60	0.0112	0.0000	0.0112
356	674.28	667.08	0.0200	0.0000	0.0200
357	676.69	669.69	0.0139	0.0000	0.0139
358	656.32	641.44	0.0018	0.3828	0.3845
359	660.14	651.40	0.0033	0.0453	0.0486
360	672.00	665.00	0.0057	0.0000	0.0057
361	685.85	675.46	0.0070	0.2978	0.3049
362	693.00	677.92	0.0033	0.2945	0.2978
363	722.00	715.00	0.0053	0.0000	0.0053
364	719.00	712.00	0.0042	0.0150	0.0191
365	721.00	714.00	0.0095	0.0055	0.0150
366	722.00	715.00	0.0007	0.0048	0.0055
367	733.00	726.00	0.0048	0.0000	0.0048
368	707.00	700.00	0.0022	0.0110	0.0132

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
369	725.00	718.00	0.0046	0.0000	0.0046
370	720.00	713.00	0.0064	0.0000	0.0064
371	713.00	700.00	0.0035	0.0224	0.0260
372	725.00	711.50	0.0009	0.0088	0.0097
373	733.00	723.00	0.0057	0.0000	0.0057
374	720.00	713.00	0.0031	0.0000	0.0031
375	735.00	728.00	0.0110	0.0000	0.0110
376	707.53	696.53	0.0000	0.0433	0.0433
377	713.51	706.51	0.0000	0.0134	0.0134
378	720.85	713.85	0.0051	0.0020	0.0070
379	721.15	714.15	0.0064	0.0000	0.0064
380	726.51	719.51	0.0020	0.0000	0.0020
381	710.66	694.75	0.0000	0.0640	0.0640
382	713.18	703.00	0.0000	0.0101	0.0101
383	726.54	719.54	0.0075	0.0000	0.0075
384	726.84	719.84	0.0073	0.0000	0.0073
385	700.22	685.81	0.0194	0.1716	0.1909
386	699.66	687.25	0.0000	0.1716	0.1716
387	698.53	688.61	0.0136	0.1240	0.1375
388	703.57	693.02	0.0000	0.1240	0.1240
389	716.39	710.00	0.0077	0.0000	0.0077
390	699.69	692.34	0.0000	0.1240	0.1240
391	704.97	695.51	0.0068	0.1094	0.1163
392	706.84	696.28	0.0000	0.1094	0.1094
393	708.51	696.97	0.0000	0.1046	0.1046
394	711.52	697.75	0.0000	0.0998	0.0998
395	718.37	700.29	0.0000	0.0365	0.0365
396	714.19	702.14	0.0029	0.0163	0.0191
397	715.00	702.95	0.0000	0.0163	0.0163
398	741.00	731.00	0.0059	0.0000	0.0059
399	716.82	707.85	0.0000	0.0174	0.0174
400	718.39	709.00	0.0174	0.0000	0.0174
401	730.00	723.00	0.0000	0.0606	0.0606
402	748.00	741.00	0.0117	0.0155	0.0272
403	751.00	744.00	0.0061	0.0095	0.0155
404	762.00	755.00	0.0048	0.0000	0.0048
405	760.00	753.00	0.0046	0.0000	0.0046
406	739.00	732.00	0.0070	0.0264	0.0334
407	744.00	736.00	0.0114	0.0150	0.0264
408	744.00	737.00	0.0000	0.0150	0.0150
409	764.00	757.00	0.0086	0.0000	0.0086
410	762.00	755.00	0.0064	0.0000	0.0064
411	748.00	740.00	0.0103	0.0000	0.0103
412	650.00	638.43	0.0000	0.0954	0.0954
413	715.92	711.00	0.0026	0.0000	0.0026
414	712.20	705.00	0.0048	0.0000	0.0048

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
415	709.79	702.50	0.0048	0.0000	0.0048
416	722.47	715.47	0.0092	0.0000	0.0092
417	719.02	712.02	0.0084	0.0000	0.0084
418	717.45	708.77	0.0033	0.0073	0.0106
419	720.47	707.83	0.0026	0.0075	0.0101
420	716.20	703.53	0.0048	0.0134	0.0183
421	710.00	703.00	0.0018	0.0110	0.0128
422	647.57	639.60	0.0004	0.0000	0.0004
423	650.00	643.00	0.0270	0.0000	0.0270
424	629.82	625.81	0.0004	0.3318	0.3323
425	625.31	609.57	0.0000	3.5459	3.5459
426	621.61	606.67	0.0000	3.6148	3.6148
427	619.19	605.83	0.0000	3.6148	3.6148
428	617.08	604.98	0.0000	3.6148	3.6148
429	617.43	604.14	0.0000	3.6148	3.6148
430	614.23	603.75	0.0000	3.9470	3.9470
431	613.00	603.57	0.0000	3.9470	3.9470
432	611.00	603.16	0.0000	3.9470	3.9470
433	611.23	602.41	0.0000	3.9470	3.9470
434	704.25	688.76	0.0508	1.0839	1.1347
435	657.20	635.85	0.0458	2.9725	3.0183
436	649.22	628.55	0.0000	3.0223	3.0223
437	642.58	627.00	0.0000	3.0223	3.0223
438	688.44	670.33	0.0000	1.3089	1.3089
439	696.60	682.54	0.0000	0.1551	0.1551
440	698.97	686.12	0.1551	0.0000	0.1551
441	691.08	675.45	0.0000	0.1551	0.1551
442	775.00	768.00	1.1930	0.0000	1.1930
443	720.00	713.00	0.1173	0.7248	0.8421
444	805.00	798.00	0.1430	0.0000	0.1430
445	740.00	733.00	0.3178	0.4070	0.7248
446	794.00	787.00	0.0101	0.0000	0.0101
447	777.00	770.00	0.0412	0.0439	0.0850
448	725.00	718.00	0.0150	0.0941	0.1091
449	796.00	791.00	0.1602	0.0000	0.1602
450	757.00	750.00	0.2640	0.0000	0.2640
451	695.00	688.00	0.6601	0.0000	0.6601
452	665.00	648.00	0.1897	0.6601	0.8498
453	735.00	728.00	0.1116	0.2817	0.3933
454	735.00	728.00	0.0941	0.0000	0.0941
455	765.00	758.00	0.1214	0.1602	0.2817
456	680.00	673.00	0.0600	1.3809	1.4409
457	680.00	673.00	0.0040	0.0000	0.0040
458	695.00	688.00	0.1029	0.0000	0.1029
459	615.00	610.50	0.0434	0.0000	0.0434
460	682.86	664.17	0.2226	1.3089	1.5316

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
461	710.00	703.00	0.0453	0.9512	0.9965
462	680.00	673.00	0.0616	0.0000	0.0616
463	651.00	638.00	0.1324	0.9114	1.0438
464	725.00	718.00	0.0000	1.1930	1.1930
465	785.00	779.00	0.0337	0.0000	0.0337
466	782.00	772.00	0.0000	0.0439	0.0439
467	725.00	718.00	0.0874	0.0000	0.0874
468	706.73	694.90	0.0000	1.0839	1.0839
469	695.00	688.00	0.0340	0.0000	0.0340
470	670.00	665.00	0.0432	0.0000	0.0432
471	685.00	678.00	0.0192	0.0000	0.0192
472	685.00	678.00	0.1562	0.0000	0.1562
473	642.54	626.31	0.0000	3.0305	3.0305
474	651.00	627.00	0.0082	0.0000	0.0082
475	680.00	673.00	0.0504	0.0411	0.0915
476	655.00	649.50	0.0208	0.0000	0.0208
477	662.59	648.99	0.0000	0.1705	0.1705
478	624.00	617.00	0.2328	0.0000	0.2328
479	645.00	628.00	0.0000	1.0438	1.0438
480	645.00	623.00	0.2107	1.0438	1.2545
481	625.00	600.00	0.0250	1.2545	1.2796
482	620.00	593.00	0.0000	1.3029	1.3029
483	619.00	600.00	0.0233	0.0000	0.0233
484	600.00	590.00	0.0000	1.5357	1.5357
485	611.00	604.00	1.3029	0.0000	1.3029
486	626.00	619.00	0.0695	0.0000	0.0695
487	622.00	615.00	0.0000	0.0695	0.0695
488	621.06	600.07	0.0000	0.0000	0.0000
489	668.34	664.34	0.0000	0.0000	0.0000
491	620.67	607.00	0.0000	0.0000	0.0000
492	612.00	604.00	0.0000	0.0000	0.0000
493	617.21	603.50	0.0000	0.0000	0.0000
494	621.75	602.00	0.0000	0.0000	0.0000
495	615.51	603.00	0.0000	0.0000	0.0000
496	729.11	722.11	0.0000	0.0000	0.0000
497	655.41	644.22	0.0000	0.0000	0.0000
498	660.78	650.78	0.0000	0.0000	0.0000
499	656.22	645.50	0.0000	0.0000	0.0000

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-1	240	702.58	241	701.32	291.4	0.004	8.0	0.013	1.23	0.0288	17.1
CO-2	241	701.32	242	697.69	852.2	0.004	8.0	0.013	1.31	0.0365	19.9
CO-3	242	697.69	243	696.43	290.7	0.004	8.0	0.013	1.47	0.0528	21.8
CO-4	243	696.43	244	694.41	398.9	0.005	8.0	0.013	1.60	0.0592	22.1
CO-5	239	647.00	238	645.49	401.5	0.004	10.0	0.013	2.02	0.2059	31.3
CO-6	244	694.41	245	685.41	1,382.5	0.007	8.0	0.013	1.83	0.0684	23.2
CO-7	238	645.49	237	637.60	411.9	0.019	10.0	0.013	3.61	0.2072	31.7
CO-8	245	685.41	246	695.20	1,204.2	0.008	8.0	0.013	0.91	0.0053	15.2
CO-9	237	637.60	236	637.50	8.5	0.012	12.0	0.013	3.33	0.3026	26.1
CO-10	245	685.41	247	684.09	317.3	0.004	10.0	0.013	1.56	0.0744	19.9
CO-11	236	637.50	235	634.00	466.8	0.007	12.0	0.013	2.83	0.3026	30.3
CO-12	247	684.09	248	682.77	308.0	0.004	10.0	0.013	1.64	0.0845	20.3
CO-13	235	634.00	234	633.00	295.1	0.003	12.0	0.013	2.14	0.3040	30.4
CO-14	248	682.77	249	672.11	314.3	0.034	10.0	0.013	3.55	0.0983	20.3
CO-15	234	633.00	233	630.54	378.4	0.007	12.0	0.013	2.70	0.3044	28.4
CO-16	249	672.11	250	660.38	321.6	0.036	10.0	0.013	3.67	0.1010	20.6
CO-17	250	660.38	251	684.04	730.2	0.032	8.0	0.013	1.28	0.0033	15.4
CO-18	233	630.54	424	625.81	140.6	0.034	12.0	0.013	4.83	0.3048	29.1
CO-19	424	625.81	232	619.02	202.2	0.034	12.0	0.013	4.96	0.3323	24.4
CO-20	232	619.02	231	613.00	312.8	0.019	12.0	0.013	4.07	0.3323	25.8
CO-21	250	660.38	252	647.39	332.3	0.039	10.0	0.013	3.81	0.1058	26.8
CO-22	231	613.00	430	605.89	258.6	0.027	12.0	0.013	4.62	0.3323	24.8
CO-23	252	647.39	253	646.89	158.8	0.003	10.0	0.013	1.84	0.1846	30.3
CO-24	253	646.89	254	619.55	3,440.3	0.008	10.0	0.013	2.56	0.1846	31.0
CO-25	230	648.07	412	638.43	266.7	0.036	10.0	0.013	3.59	0.0954	22.1
CO-26	412	638.43	237	637.60	309.3	0.003	10.0	0.013	1.44	0.0954	29.2
CO-27	229	656.66	230	648.07	315.5	0.027	10.0	0.013	2.52	0.0414	16.4
CO-28	255	627.08	254	619.55	590.6	0.013	8.0	0.013	0.98	0.0040	24.0
CO-29	228	663.43	229	656.66	460.3	0.015	10.0	0.013	2.04	0.0414	11.8
CO-30	256	640.84	326	620.64	295.6	0.068	8.0	0.013	3.25	0.0293	15.5

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CO-31	227	668.10	228	663.43	339.0	0.014	10.0	0.013	1.99	0.0414	11.9
CO-32	257	670.87	256	640.84	980.6	0.031	8.0	0.013	1.44	0.0051	10.2
CO-33	226	668.49	227	668.10	100.5	0.004	10.0	0.013	1.28	0.0414	13.8
CO-34	258	648.16	256	640.84	303.2	0.024	8.0	0.013	2.08	0.0224	13.5
CO-35	225	669.14	226	668.49	136.6	0.005	8.0	0.013	1.37	0.0372	18.1
CO-36	259	652.60	258	648.16	309.8	0.014	8.0	0.013	1.45	0.0121	10.9
CO-37	224	669.80	225	669.14	134.9	0.005	8.0	0.013	1.34	0.0334	17.3
CO-38	260	673.84	259	652.60	1,053.0	0.020	8.0	0.013	1.50	0.0097	8.7
CO-39	223	684.76	224	669.80	689.2	0.022	6.0	0.013	1.25	0.0042	15.0
CO-40	260	673.84	261	696.00	818.6	0.027	8.0	0.013	1.32	0.0042	6.8
CO-41	262	677.53	258	648.16	1,100.3	0.027	8.0	0.013	1.64	0.0092	10.3
CO-42	222	676.80	226	668.49	423.1	0.020	8.0	0.013	1.15	0.0040	11.8
CO-43	263	658.54	264	634.66	516.9	0.046	8.0	0.013	2.04	0.0101	9.2
CO-44	221	683.02	222	676.80	213.6	0.029	8.0	0.013	1.18	0.0029	4.8
CO-45	265	665.52	264	634.66	750.4	0.041	8.0	0.013	1.41	0.0033	7.4
CO-46	220	688.63	221	683.02	487.0	0.012	8.0	0.013	0.79	0.0022	4.2
CO-47	266	628.22	264	634.66	293.0	0.022	8.0	0.013	1.74	0.0143	11.4
CO-48	219	689.42	220	688.63	193.8	0.004	6.0	0.013	0.36	0.0004	4.2
CO-49	267	643.95	266	628.22	481.0	0.033	8.0	0.013	1.61	0.0068	9.8
CO-50	218	670.90	224	669.80	266.6	0.004	8.0	0.013	1.21	0.0288	16.5
CO-51	268	647.43	267	643.95	694.3	0.005	8.0	0.013	0.75	0.0048	6.8
CO-52	217	687.85	218	670.90	698.4	0.024	6.0	0.013	1.32	0.0044	14.8
CO-53	269	646.31	270	617.80	581.9	0.049	8.0	0.013	1.53	0.0035	24.1
CO-54	272	618.69	271	652.34	1,548.7	0.022	8.0	0.013	1.58	0.0103	26.3
CO-55	216	672.00	218	670.90	232.2	0.005	8.0	0.013	1.20	0.0235	15.3
CO-56	254	619.55	272	618.69	296.6	0.003	12.0	0.013	1.85	0.2200	28.9
CO-57	215	690.00	216	672.00	860.3	0.021	8.0	0.013	1.16	0.0037	9.7
CO-58	272	618.69	270	617.80	309.2	0.003	12.0	0.013	1.87	0.2314	29.1
CO-59	270	617.80	273	615.97	565.7	0.003	12.0	0.013	1.96	0.2376	29.3
CO-60	214	673.10	216	672.00	245.5	0.004	8.0	0.013	1.10	0.0189	13.6

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CO-61	274	640.17	273	615.97	796.6	0.030	8.0	0.013	1.28	0.0035	24.8
CO-62	213	678.39	214	673.10	185.1	0.029	8.0	0.013	2.07	0.0180	12.1
CO-63	273	615.97	275	614.51	486.5	0.003	12.0	0.013	1.92	0.2440	29.9
CO-64	212	680.00	213	678.39	304.2	0.005	8.0	0.013	1.14	0.0174	11.6
CO-65	266	628.22	275	614.51	553.2	0.025	8.0	0.013	2.12	0.0229	28.9
CO-66	211	686.00	212	680.00	267.7	0.022	8.0	0.013	1.11	0.0031	8.3
CO-67	275	614.51	276	613.48	291.9	0.004	12.0	0.013	2.09	0.2677	30.0
CO-68	210	688.87	211	686.00	157.2	0.018	6.0	0.013	0.75	0.0009	4.9
CO-69	276	613.48	277	610.89	710.4	0.004	12.0	0.013	2.13	0.2741	28.6
CO-70	209	687.63	211	686.00	83.5	0.020	8.0	0.013	0.74	0.0009	3.6
CO-71	278	622.17	277	610.89	673.5	0.017	8.0	0.013	1.05	0.0035	22.8
CO-72	208	681.50	212	680.00	253.8	0.006	8.0	0.013	1.09	0.0134	11.2
CO-73	279	623.67	276	613.48	406.8	0.025	8.0	0.013	1.09	0.0024	24.6
CO-74	277	610.89	280	606.77	365.3	0.011	12.0	0.013	3.20	0.2776	29.3
CO-76	281	607.50	280	606.77	179.1	0.004	12.0	0.013	1.29	0.0434	21.6
CO-77	282	673.59	249	672.11	326.8	0.005	8.0	0.013	0.57	0.0022	15.1
CO-78	283	705.91	247	684.09	1,330.0	0.016	8.0	0.013	1.38	0.0092	16.8
CO-81	207	626.60	426	612.04	307.7	0.047	8.0	0.013	3.68	0.0689	18.0
CO-82	284	699.50	242	697.69	287.2	0.006	8.0	0.013	1.18	0.0163	16.4
CO-83	206	630.70	207	626.60	911.8	0.004	8.0	0.013	0.70	0.0044	14.4
CO-85	345	614.98	425	609.57	1,421.9	0.004	30.0	0.013	4.11	3.5162	31.2
CO-86	289	661.54	17	660.12	285.9	0.005	8.0	0.013	1.08	0.0158	14.2
CO-87	204	627.53	345	626.00	36.4	0.042	8.0	0.013	3.26	0.0521	15.8
CO-88	286	677.74	17	660.12	2,621.1	0.007	8.0	0.013	1.22	0.0169	14.0
CO-89	202	640.44	321	639.66	250.2	0.003	15.0	0.013	2.25	0.4331	28.9
CO-90	201	628.50	207	626.60	240.3	0.008	8.0	0.013	1.93	0.0645	21.9
CO-91	285	665.28	287	679.40	594.4	0.024	8.0	0.013	1.01	0.0022	5.8
CO-92	200	629.00	201	628.50	107.3	0.005	8.0	0.013	1.55	0.0579	21.9
CO-93	288	675.31	289	661.54	1,167.4	0.012	8.0	0.013	1.05	0.0055	8.9
CO-94	199	629.51	200	629.00	270.2	0.002	8.0	0.013	1.07	0.0488	23.9

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CO-95	289	661.54	290	662.79	297.0	0.004	8.0	0.013	0.89	0.0103	10.8
CO-96	198	630.48	199	629.51	271.9	0.004	8.0	0.013	1.29	0.0433	23.1
CO-97	197	631.95	198	630.48	272.7	0.005	8.0	0.013	0.97	0.0101	14.9
CO-98	285	665.28	291	664.04	295.7	0.004	8.0	0.013	0.75	0.0059	8.2
CO-99	196	653.00	197	631.95	1,538.4	0.014	8.0	0.013	1.30	0.0092	8.7
CO-100	291	664.04	290	662.79	284.2	0.004	8.0	0.013	0.85	0.0081	9.3
CO-101	292	647.93	239	647.00	246.9	0.004	10.0	0.013	2.02	0.2055	33.1
CO-102	293	680.00	294	675.28	929.8	0.005	8.0	0.013	0.76	0.0051	8.1
CO-103	295	677.87	294	675.28	357.4	0.007	8.0	0.013	0.73	0.0029	7.1
CO-104	294	675.28	296	674.16	282.6	0.004	8.0	0.013	0.84	0.0090	9.6
CO-105	297	679.94	296	679.00	235.5	0.004	8.0	0.013	0.49	0.0015	3.7
CO-106	195	645.00	198	630.48	884.8	0.016	8.0	0.013	2.04	0.0330	18.0
CO-107	296	674.16	298	673.27	174.1	0.005	8.0	0.013	0.99	0.0114	10.5
CO-108	299	680.79	298	680.00	199.7	0.004	8.0	0.013	0.41	0.0009	2.8
CO-109	194	656.00	195	645.00	692.6	0.016	8.0	0.013	1.58	0.0145	12.7
CO-110	298	673.27	300	672.05	278.6	0.004	8.0	0.013	0.98	0.0134	11.9
CO-111	193	650.50	195	645.00	914.5	0.006	8.0	0.013	1.08	0.0128	12.7
CO-112	301	683.51	300	672.05	815.0	0.014	8.0	0.013	0.97	0.0033	8.8
CO-113	300	672.05	302	667.28	751.5	0.006	8.0	0.013	1.29	0.0218	14.3
CO-114	302	667.28	303	683.19	672.1	0.024	8.0	0.013	1.36	0.0057	11.1
CO-115	192	635.34	199	629.51	829.0	0.007	8.0	0.013	0.88	0.0055	16.1
CO-116	302	667.28	304	684.74	1,027.1	0.017	8.0	0.013	1.31	0.0075	11.5
CO-117	302	667.28	322	651.66	966.7	0.016	8.0	0.013	2.07	0.0350	14.3
CO-118	191	630.32	201	628.50	230.8	0.008	8.0	0.013	0.93	0.0057	14.0
CO-119	305	678.88	362	677.92	177.8	0.005	12.0	0.013	2.50	0.2945	28.5
CO-120	361	675.46	306	663.81	1,437.1	0.008	12.0	0.013	2.92	0.3049	28.6
CO-121	190	624.00	189	620.00	256.5	0.016	18.0	0.013	5.93	1.8377	43.8
CO-122	306	663.81	15	656.95	666.8	0.010	12.0	0.013	3.20	0.3106	29.3
CO-123	307	665.85	15	656.95	1,427.9	0.006	8.0	0.013	1.29	0.0218	28.8
CO-124	308	677.81	307	665.85	849.6	0.014	8.0	0.013	1.08	0.0048	9.3

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CO-125	188	625.00	190	624.00	149.2	0.007	18.0	0.013	4.37	1.8363	42.7
CO-126	309	668.86	307	665.85	582.4	0.005	8.0	0.013	0.92	0.0090	10.8
CO-127	187	625.80	188	625.00	137.1	0.006	8.0	0.013	2.85	0.4078	78.3
CO-128	186	640.10	187	625.80	303.8	0.047	8.0	0.013	6.18	0.4069	58.4
CO-129	185	645.00	186	640.10	598.4	0.008	8.0	0.013	3.23	0.4027	55.9
CO-130	310	665.47	306	663.81	543.5	0.003	8.0	0.013	0.50	0.0022	24.1
CO-131	184	648.00	185	645.00	217.1	0.014	8.0	0.013	3.93	0.3979	55.5
CO-132	183	649.00	184	648.00	189.0	0.005	8.0	0.013	2.72	0.3972	58.5
CO-133	182	650.00	183	649.00	389.0	0.003	8.0	0.013	2.00	0.3939	71.6
CO-134	311	666.46	41	639.00	1,530.1	0.018	8.0	0.013	1.63	0.0139	10.9
CO-135	181	652.00	182	650.00	287.4	0.007	8.0	0.013	3.01	0.3889	68.6
CO-136	180	661.00	181	652.00	687.9	0.013	8.0	0.013	3.82	0.3884	55.2
CO-137	179	665.00	180	661.00	388.6	0.010	8.0	0.013	3.49	0.3854	54.6
CO-138	178	666.00	179	665.00	38.0	0.026	8.0	0.013	4.92	0.3831	54.4
CO-139	177	668.00	178	666.00	336.3	0.006	8.0	0.013	2.83	0.3831	56.1
CO-140	176	669.00	177	668.00	368.4	0.003	8.0	0.013	1.69	0.1592	50.7
CO-141	230	648.07	313	649.00	21.7	0.043	8.0	0.013	3.32	0.0540	22.2
CO-142	314	656.00	313	649.00	339.8	0.021	8.0	0.013	2.35	0.0405	18.4
CO-143	315	658.50	314	656.00	143.4	0.017	8.0	0.013	1.96	0.0270	15.4
CO-144	175	679.19	176	669.00	814.3	0.013	8.0	0.013	0.90	0.0029	23.9
CO-145	316	664.00	315	658.50	272.6	0.020	8.0	0.013	1.67	0.0135	11.8
CO-146	174	645.64	186	640.10	667.4	0.008	6.0	0.013	0.79	0.0029	40.7
CO-147	317	670.00	315	658.50	404.5	0.028	8.0	0.013	1.88	0.0135	11.8
CO-148	173	626.80	188	625.00	365.3	0.005	14.0	0.013	3.67	1.4285	54.9
CO-149	318	663.00	314	656.00	396.1	0.018	8.0	0.013	1.61	0.0135	13.4
CO-150	168	628.50	173	626.80	459.3	0.004	14.0	0.013	3.28	1.4263	57.6
CO-151	313	649.00	319	667.00	517.4	0.035	8.0	0.013	2.01	0.0135	14.7
CO-152	172	639.48	168	628.50	391.1	0.028	6.0	0.013	1.45	0.0051	54.3
CO-154	171	646.05	172	639.48	354.8	0.019	6.0	0.013	1.12	0.0035	7.9
CO-155	354	650.64	320	648.58	322.7	0.006	12.0	0.013	2.78	0.3471	30.9

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CO-156	15	656.95	354	650.64	360.7	0.017	12.0	0.013	3.94	0.3344	30.1
CO-157	170	653.00	171	646.05	238.8	0.029	6.0	0.013	1.15	0.0022	6.4
CO-158	321	639.66	203	639.30	105.3	0.003	15.0	0.013	2.32	0.4331	27.1
CO-159	169	665.64	170	653.00	652.8	0.019	6.0	0.013	0.93	0.0018	5.3
CO-160	292	647.93	322	651.66	394.9	0.009	10.0	0.013	1.66	0.0350	22.5
CO-161	203	639.30	323	630.00	377.8	0.025	15.0	0.013	4.68	0.4336	21.5
CO-162	167	629.20	168	628.50	367.2	0.002	14.0	0.013	2.49	1.4212	68.2
CO-163	323	619.50	345	614.98	1,296.4	0.003	30.0	0.013	3.96	3.4641	31.7
CO-164	166	629.50	167	629.20	167.0	0.002	14.0	0.013	2.43	1.4186	77.1
CO-165	43	630.25	324	634.24	897.8	0.004	8.0	0.013	1.26	0.0308	18.7
CO-166	165	630.00	166	629.50	153.0	0.003	14.0	0.013	3.12	1.4186	70.7
CO-167	55	665.37	45	651.86	315.9	0.043	8.0	0.013	1.69	0.0057	9.3
CO-168	46	659.46	324	634.24	889.1	0.028	8.0	0.013	2.09	0.0187	14.0
CO-169	325	662.79	263	658.54	1,005.0	0.004	8.0	0.013	0.79	0.0068	8.3
CO-170	162	634.50	163	633.00	334.4	0.004	14.0	0.013	3.52	1.3923	55.8
CO-171	326	620.64	254	619.55	251.9	0.004	8.0	0.013	1.25	0.0306	29.6
CO-172	252	647.39	334	656.25	262.4	0.034	8.0	0.013	3.41	0.0788	32.4
CO-173	161	636.92	160	635.27	354.0	0.005	8.0	0.013	0.80	0.0064	9.1
CO-174	327	660.05	328	678.10	417.1	0.043	8.0	0.013	2.25	0.0152	17.1
CO-175	158	630.50	165	630.00	200.7	0.002	14.0	0.013	2.80	1.4186	66.1
CO-176	328	678.10	329	695.12	949.3	0.018	8.0	0.013	1.61	0.0132	10.0
CO-177	164	631.00	158	630.50	187.5	0.003	14.0	0.013	2.88	1.4137	67.8
CO-178	329	695.12	330	699.70	756.9	0.006	8.0	0.013	0.96	0.0086	9.0
CO-179	159	670.11	158	630.50	1,038.3	0.038	8.0	0.013	1.44	0.0040	52.6
CO-180	330	699.70	331	705.20	374.2	0.015	8.0	0.013	1.08	0.0046	7.0
CO-181	157	674.92	156	674.17	193.2	0.004	6.0	0.013	0.35	0.0004	4.8
CO-182	331	705.20	332	709.51	705.8	0.006	8.0	0.013	0.67	0.0026	5.2
CO-183	156	674.17	155	667.41	335.7	0.020	6.0	0.013	1.09	0.0029	5.9
CO-184	333	708.81	248	682.77	2,225.1	0.012	8.0	0.013	1.37	0.0130	17.4
CO-185	155	667.41	154	663.28	201.3	0.021	6.0	0.013	1.09	0.0029	9.1

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CO-186	335	657.00	334	656.25	142.1	0.005	8.0	0.013	1.77	0.0788	24.5
CO-187	153	631.50	164	631.00	162.2	0.003	14.0	0.013	3.05	1.4137	65.3
CO-188	335	657.00	327	660.05	174.6	0.017	8.0	0.013	2.70	0.0788	24.5
CO-189	163	633.00	153	631.50	333.0	0.005	14.0	0.013	3.53	1.4016	59.8
CO-190	336	677.25	327	660.05	2,121.0	0.008	8.0	0.013	1.94	0.0636	22.6
CO-191	154	663.28	153	631.50	943.1	0.034	8.0	0.013	1.88	0.0113	54.4
CO-192	152	676.00	156	674.17	322.2	0.006	6.0	0.013	0.66	0.0024	6.6
CO-193	338	693.00	339	683.00	782.3	0.013	8.0	0.013	1.08	0.0055	16.8
CO-194	151	675.20	154	663.28	1,070.0	0.011	8.0	0.013	0.97	0.0044	7.2
CO-195	339	683.00	340	688.00	493.5	0.010	8.0	0.013	2.38	0.0981	27.1
CO-196	150	678.72	149	655.42	1,104.9	0.021	6.0	0.013	1.33	0.0053	9.9
CO-197	339	683.00	341	679.33	137.1	0.027	8.0	0.013	3.40	0.1036	38.0
CO-198	149	655.42	163	633.00	909.9	0.025	6.0	0.013	1.62	0.0084	55.5
CO-199	341	679.33	305	678.88	140.1	0.003	12.0	0.013	2.07	0.2945	30.3
CO-200	22	651.05	342	658.95	617.7	0.013	8.0	0.013	2.92	0.1497	35.6
CO-201	41	639.00	39	622.00	438.3	0.039	8.0	0.013	2.39	0.0202	13.2
CO-202	148	680.50	147	659.89	736.3	0.028	6.0	0.013	1.25	0.0031	7.6
CO-203	147	659.89	146	650.80	495.2	0.018	6.0	0.013	1.25	0.0051	9.2
CO-204	146	650.80	145	646.00	329.3	0.015	6.0	0.013	1.26	0.0066	10.8
CO-205	145	646.00	162	634.50	453.5	0.025	6.0	0.013	1.70	0.0095	55.9
CO-206	346	689.42	340	688.00	142.3	0.010	8.0	0.013	2.37	0.0981	25.3
CO-207	347	698.78	346	689.42	937.7	0.010	8.0	0.013	1.13	0.0084	17.2
CO-208	144	672.16	143	662.41	374.8	0.026	6.0	0.013	0.98	0.0015	5.9
CO-209	348	692.79	346	689.42	337.1	0.010	8.0	0.013	2.30	0.0898	26.2
CO-210	143	662.41	142	651.77	460.6	0.023	6.0	0.013	1.21	0.0035	7.6
CO-211	349	697.65	348	692.79	485.6	0.010	8.0	0.013	1.44	0.0183	18.4
CO-212	142	651.77	141	645.63	435.8	0.014	6.0	0.013	1.09	0.0044	8.8
CO-213	350	702.37	349	697.65	472.0	0.010	8.0	0.013	1.16	0.0092	9.7
CO-214	141	645.63	161	636.92	486.9	0.018	6.0	0.013	1.34	0.0064	9.9
CO-215	351	708.52	350	702.37	615.0	0.010	8.0	0.013	1.16	0.0092	7.9

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CO-216	140	643.95	160	635.27	617.3	0.014	6.0	0.013	1.37	0.0092	12.8
CO-217	352	706.17	349	697.65	867.6	0.010	8.0	0.013	1.06	0.0070	9.2
CO-218	139	661.44	140	643.95	789.8	0.022	6.0	0.013	1.58	0.0088	11.4
CO-219	138	669.70	139	661.44	345.6	0.024	6.0	0.013	1.40	0.0055	10.1
CO-220	137	680.00	138	669.70	508.1	0.020	6.0	0.013	1.22	0.0042	8.3
CO-221	353	694.00	348	692.79	652.5	0.002	8.0	0.013	1.17	0.0691	28.2
CO-222	136	684.94	137	680.00	379.1	0.013	6.0	0.013	0.86	0.0022	6.7
CO-223	355	665.60	354	650.64	1,778.9	0.008	8.0	0.013	1.17	0.0112	27.3
CO-224	135	679.62	134	653.27	1,335.1	0.020	6.0	0.013	0.88	0.0015	8.1
CO-225	134	653.27	133	644.00	562.7	0.016	6.0	0.013	1.43	0.0090	10.6
CO-226	133	644.00	12th Street LS (Downtown)	622.00	549.6	0.040	6.0	0.013	1.98	0.0090	9.6
CO-227	356	667.08	320	648.58	2,402.2	0.008	8.0	0.013	1.35	0.0200	29.5
CO-228	132	627.15	12th Street LS (Downtown)	622.00	244.8	0.021	6.0	0.013	1.82	0.0148	13.1
CO-229	357	669.69	358	641.44	1,728.6	0.016	8.0	0.013	1.58	0.0139	33.6
CO-230	131	628.00	132	627.15	405.8	0.002	6.0	0.013	0.81	0.0148	17.4
CO-231	130	629.50	131	628.00	197.5	0.008	8.0	0.013	1.21	0.0143	12.6
CO-232	129	630.50	130	629.50	383.8	0.003	8.0	0.013	0.84	0.0143	11.5
CO-233	128	631.00	129	630.50	153.7	0.003	8.0	0.013	0.78	0.0090	11.4
CO-234	360	665.00	359	651.40	1,183.8	0.011	8.0	0.013	1.06	0.0057	12.5
CO-235	127	632.00	128	631.00	351.8	0.003	8.0	0.013	0.71	0.0076	9.6
CO-236	362	677.92	361	675.46	471.7	0.005	12.0	0.013	2.48	0.2978	28.6
CO-237	126	633.00	127	632.00	344.4	0.003	8.0	0.013	0.69	0.0067	9.1
CO-238	5	689.00	363	715.00	673.2	0.039	8.0	0.013	1.59	0.0053	14.3
CO-239	125	634.00	126	633.00	179.5	0.006	8.0	0.013	0.66	0.0027	6.9
CO-240	364	712.00	2	688.00	890.5	0.027	8.0	0.013	2.06	0.0191	16.5

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CO-241	124	634.50	125	634.00	212.1	0.002	8.0	0.013	0.43	0.0018	4.9
CO-242	365	714.00	364	712.00	276.5	0.007	8.0	0.013	1.21	0.0150	11.0
CO-243	123	635.37	126	633.00	321.6	0.007	8.0	0.013	0.69	0.0022	6.5
CO-244	366	715.00	365	714.00	306.0	0.003	8.0	0.013	0.67	0.0055	9.1
CO-245	122	635.00	127	632.00	178.5	0.017	8.0	0.013	0.57	0.0004	5.6
CO-246	367	726.00	366	715.00	807.7	0.014	8.0	0.013	1.07	0.0048	6.8
CO-247	121	635.41	127	632.00	173.3	0.020	8.0	0.013	0.60	0.0004	5.6
CO-248	368	700.00	7	694.00	460.6	0.013	8.0	0.013	1.43	0.0132	15.1
CO-249	120	635.00	128	631.00	150.1	0.027	8.0	0.013	0.92	0.0013	6.4
CO-250	369	718.00	368	700.00	841.0	0.021	8.0	0.013	1.23	0.0046	7.7
CO-251	119	634.00	126	633.00	500.8	0.002	8.0	0.013	0.41	0.0018	7.0
CO-252	370	713.00	368	700.00	1,071.5	0.012	8.0	0.013	1.11	0.0064	8.2
CO-253	118	627.79	117	626.32	289.7	0.005	8.0	0.013	0.36	0.0004	2.1
CO-254	371	700.00	7	694.00	1,023.4	0.006	8.0	0.013	1.33	0.0260	17.4
CO-255	117	626.32	116	618.45	198.6	0.040	6.0	0.013	0.79	0.0004	6.6
CO-256	372	711.50	371	700.00	310.2	0.037	8.0	0.013	1.86	0.0097	11.2
CO-257	115	621.81	116	618.45	445.2	0.008	6.0	0.013	1.02	0.0071	10.5
CO-258	373	723.00	372	711.50	1,099.7	0.010	8.0	0.013	1.02	0.0057	7.3
CO-259	114	623.31	115	621.81	233.6	0.006	6.0	0.013	0.88	0.0053	9.9
CO-260	374	713.00	372	711.50	582.4	0.003	8.0	0.013	0.52	0.0031	7.3
CO-261	113	628.33	114	623.31	342.6	0.015	6.0	0.013	0.92	0.0024	7.6
CO-262	421	703.00	371	700.00	712.0	0.004	8.0	0.013	0.95	0.0128	12.6
CO-263	375	728.00	421	703.00	1,201.3	0.021	8.0	0.013	1.58	0.0110	9.9
CO-264	1	698.09	376	696.53	355.3	0.004	8.0	0.013	1.18	0.0251	16.9
CO-265	112	615.01	111	611.01	237.9	0.017	6.0	0.013	1.04	0.0031	7.8
CO-266	420	703.53	376	696.53	605.5	0.012	8.0	0.013	1.51	0.0183	15.0
CO-267	377	706.51	420	703.53	298.4	0.010	8.0	0.013	1.31	0.0134	10.5
CO-268	111	611.01	110	608.70	275.6	0.008	6.0	0.013	0.98	0.0055	12.5
CO-269	378	713.85	377	706.51	733.8	0.010	8.0	0.013	1.07	0.0070	8.4
CO-270	110	608.70	109	604.00	344.3	0.014	6.0	0.013	1.65	0.0176	15.0

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CO-271	379	714.15	377	706.51	764.5	0.010	8.0	0.013	1.04	0.0064	8.2
CO-272	380	719.51	378	713.85	565.7	0.010	8.0	0.013	0.73	0.0020	5.4
CO-273	109	604.00	Meadowlands LS	575.00	387.8	0.075	6.0	0.013	3.01	0.0176	12.6
CO-275	116	618.45	108	614.00	188.1	0.024	6.0	0.013	1.58	0.0080	11.5
CO-276	376	696.53	381	694.75	339.3	0.005	8.0	0.013	1.48	0.0433	21.1
CO-277	108	614.00	110	608.70	259.6	0.020	6.0	0.013	1.61	0.0104	14.2
CO-278	381	694.75	382	703.00	251.3	0.033	8.0	0.013	1.81	0.0101	16.0
CO-279	107	614.58	110	608.70	315.6	0.019	6.0	0.013	0.92	0.0018	10.5
CO-280	419	707.83	382	703.00	385.6	0.013	8.0	0.013	1.29	0.0101	8.0
CO-281	383	719.54	419	707.83	1,171.0	0.010	8.0	0.013	1.09	0.0075	7.9
CO-282	418	708.77	381	694.75	473.6	0.030	8.0	0.013	1.77	0.0106	16.0
CO-283	384	719.84	418	708.77	1,106.7	0.010	8.0	0.013	1.08	0.0073	7.9
CO-284	385	685.81	341	679.33	484.7	0.013	12.0	0.013	3.04	0.1909	27.3
CO-285	105	622.00	104	617.00	414.5	0.012	8.0	0.013	0.81	0.0022	4.3
CO-286	386	687.25	385	685.81	641.4	0.002	12.0	0.013	1.57	0.1716	24.6
CO-287	104	617.00	103	615.00	206.6	0.010	8.0	0.013	0.83	0.0031	6.8
CO-288	387	688.61	386	687.25	444.9	0.003	12.0	0.013	1.64	0.1375	24.5
CO-289	103	615.00	102	609.00	1,139.8	0.005	8.0	0.013	0.94	0.0092	8.5
CO-290	388	693.02	390	692.34	257.6	0.003	12.0	0.013	1.51	0.1240	25.8
CO-291	102	609.00	101	608.00	117.7	0.008	8.0	0.013	1.11	0.0092	8.2
CO-292	389	710.00	388	693.02	1,344.6	0.013	8.0	0.013	1.19	0.0077	20.1
CO-293	101	608.00	100	607.00	152.9	0.007	8.0	0.013	1.01	0.0092	10.1
CO-294	100	607.00	99	604.00	533.6	0.006	8.0	0.013	1.16	0.0174	12.2
CO-295	99	604.00	98	600.83	341.8	0.009	8.0	0.013	1.48	0.0222	15.1
CO-296	390	692.34	387	692.22	161.6	0.001	12.0	0.013	0.96	0.1240	23.8
CO-297	98	600.83	97	600.00	397.2	0.002	8.0	0.013	0.90	0.0240	15.6
CO-298	391	695.51	388	693.02	1,082.9	0.002	12.0	0.013	1.41	0.1163	21.9
CO-299	97	600.00	96	597.00	421.0	0.007	8.0	0.013	1.42	0.0262	14.0
CO-300	392	696.28	391	695.51	286.3	0.003	12.0	0.013	1.47	0.1094	21.2

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CO-301	96	597.00	95	592.25	458.7	0.010	8.0	0.013	1.67	0.0286	13.6
CO-302	393	696.97	392	696.28	250.7	0.003	12.0	0.013	1.46	0.1046	20.2
CO-303	95	592.25	Meadowlands LS	575.00	518.3	0.033	8.0	0.013	2.50	0.0286	12.1
CO-304	394	697.75	393	696.97	281.7	0.003	12.0	0.013	1.44	0.0998	19.6
CO-305	106	619.36	94	614.07	439.9	0.012	6.0	0.013	1.06	0.0046	8.8
CO-306	395	700.29	394	697.75	850.9	0.003	10.0	0.013	1.12	0.0365	19.0
CO-307	94	614.07	100	607.00	458.6	0.015	6.0	0.013	1.27	0.0064	12.7
CO-308	396	702.14	395	700.29	698.9	0.003	10.0	0.013	0.89	0.0191	13.0
CO-309	397	702.95	396	702.14	269.9	0.003	10.0	0.013	0.88	0.0163	10.6
CO-310	93	617.16	99	604.00	836.4	0.016	6.0	0.013	1.10	0.0040	12.2
CO-311	92	615.00	91	604.57	476.8	0.022	6.0	0.013	0.92	0.0015	5.3
CO-312	398	731.00	397	702.95	849.2	0.033	8.0	0.013	1.55	0.0059	9.5
CO-313	91	604.57	96	597.00	216.8	0.035	6.0	0.013	1.26	0.0024	12.5
CO-314	90	635.00	89	634.00	343.2	0.003	8.0	0.013	1.81	0.1849	41.7
CO-315	399	707.85	395	700.29	435.5	0.017	8.0	0.013	1.72	0.0174	14.8
CO-316	89	634.00	88	630.05	411.2	0.010	8.0	0.013	2.80	0.1849	35.3
CO-317	88	630.05	87	625.84	523.1	0.008	8.0	0.013	2.62	0.1849	36.1
CO-318	400	709.00	399	707.85	271.3	0.004	8.0	0.013	1.05	0.0174	11.9
CO-319	87	625.84	189	620.00	375.6	0.016	8.0	0.013	3.32	0.1849	68.5
CO-320	86	669.00	179	665.00	760.4	0.005	6.0	0.013	0.48	0.0009	38.4
CO-321	85	675.00	177	668.00	890.7	0.008	8.0	0.013	2.74	0.2239	49.5
CO-322	401	723.00	394	697.75	1,998.2	0.013	8.0	0.013	2.23	0.0606	25.0
CO-323	84	682.00	85	675.00	564.1	0.012	8.0	0.013	3.21	0.2204	40.8
CO-324	402	741.00	401	723.00	1,418.8	0.013	8.0	0.013	1.76	0.0272	17.4
CO-325	83	686.00	84	682.00	209.2	0.019	8.0	0.013	2.96	0.0959	33.5
CO-326	403	744.00	402	741.00	790.9	0.004	8.0	0.013	0.98	0.0155	13.1
CO-327	82	686.50	83	686.00	151.9	0.003	8.0	0.013	1.58	0.0952	28.9
CO-328	404	755.00	403	744.00	836.8	0.013	8.0	0.013	1.05	0.0048	9.0
CO-329	81	687.00	82	686.50	133.5	0.004	8.0	0.013	1.65	0.0939	30.7

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Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-330	405	753.00	403	744.00	588.3	0.015	8.0	0.013	1.10	0.0046	9.0
CO-331	80	688.00	83	686.00	320.5	0.006	8.0	0.013	0.45	0.0007	14.4
CO-332	406	732.00	401	723.00	1,155.9	0.008	8.0	0.013	1.58	0.0334	18.2
CO-333	407	736.00	406	732.00	664.2	0.006	8.0	0.013	1.35	0.0264	14.8
CO-334	78	661.50	79	659.00	324.9	0.008	8.0	0.013	1.51	0.0288	14.5
CO-335	408	737.00	407	736.00	270.9	0.004	8.0	0.013	0.96	0.0150	13.2
CO-336	77	662.00	78	661.50	50.3	0.010	8.0	0.013	1.62	0.0275	14.1
CO-337	409	757.00	408	737.00	1,140.8	0.018	8.0	0.013	1.38	0.0086	9.9
CO-338	76	665.00	77	662.00	485.5	0.006	8.0	0.013	1.02	0.0101	11.5
CO-339	410	755.00	408	737.00	1,141.4	0.016	8.0	0.013	1.22	0.0064	9.4
CO-340	75	669.00	76	665.00	475.3	0.008	8.0	0.013	1.07	0.0086	8.3
CO-341	411	740.00	397	702.95	1,072.5	0.035	8.0	0.013	1.85	0.0103	10.5
CO-342	74	672.00	75	669.00	401.4	0.007	8.0	0.013	0.96	0.0068	7.4
CO-346	413	711.00	394	697.75	639.1	0.021	8.0	0.013	1.03	0.0026	16.7
CO-347	414	705.00	393	696.97	610.2	0.013	8.0	0.013	1.06	0.0048	17.8
CO-348	415	702.50	392	696.28	607.9	0.010	8.0	0.013	0.97	0.0048	18.2
CO-349	73	698.00	72	696.00	255.4	0.008	6.0	0.013	0.55	0.0009	4.9
CO-350	416	715.47	4	703.96	1,151.0	0.010	8.0	0.013	1.16	0.0092	8.9
CO-351	72	696.00	71	682.00	576.3	0.024	6.0	0.013	1.12	0.0024	6.9
CO-352	417	712.02	3	700.75	1,127.0	0.010	8.0	0.013	1.13	0.0084	9.0
CO-353	71	682.00	70	674.00	390.1	0.021	8.0	0.013	1.25	0.0051	6.8
CO-354	422	639.60	203	639.30	133.7	0.002	8.0	0.013	0.28	0.0004	25.9
CO-355	70	674.00	69	672.22	263.7	0.007	8.0	0.013	0.95	0.0075	9.2
CO-356	423	643.00	424	625.81	1,116.5	0.015	8.0	0.013	1.88	0.0270	29.2
CO-357	205	613.90	425	612.00	43.1	0.044	8.0	0.013	2.78	0.0297	11.9
CO-358	426	606.67	427	605.83	294.4	0.003	30.0	0.013	3.73	3.6148	34.5
CO-359	427	605.83	428	604.98	300.8	0.003	30.0	0.013	3.72	3.6148	33.1
CO-360	68	691.50	69	672.22	1,223.9	0.016	6.0	0.013	1.13	0.0044	11.1
CO-361	428	604.98	429	604.14	212.1	0.004	30.0	0.013	4.20	3.6148	35.1
CO-362	429	604.14	430	603.75	203.9	0.002	30.0	0.013	3.23	3.6148	40.1

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CO-363	67	686.00	66	671.00	1,226.7	0.012	6.0	0.013	1.04	0.0044	11.3
CO-364	430	603.75	431	603.57	84.1	0.002	30.0	0.013	3.44	3.9470	43.2
CO-365	431	603.57	432	603.16	317.5	0.001	30.0	0.013	2.86	3.9470	44.6
CO-366	69	672.22	66	671.00	273.5	0.004	8.0	0.013	0.97	0.0125	10.9
CO-367	66	671.00	77	662.00	275.9	0.033	8.0	0.013	2.12	0.0174	12.5
CO-368	432	603.16	433	602.41	556.6	0.001	30.0	0.013	2.91	3.9470	38.5
CO-369	433	602.41	Justin Treatment Plant	596.00	189.0	0.034	30.0	0.013	9.24	3.9470	26.0
CO-370	65	684.00	208	681.50	426.9	0.006	8.0	0.013	0.88	0.0068	8.9
CO-371	434	688.76	438	670.33	2,927.0	0.006	21.0	0.013	3.68	1.1347	28.3
CO-372(1)	438	670.33	460	664.17	1,000.5	0.006	21.0	0.013	3.81	1.3089	30.6
CO-372(2)	460	664.17	435	635.85	4,596.4	0.006	21.0	0.013	3.98	1.5316	36.2
CO-373	64	686.50	65	684.00	448.6	0.006	8.0	0.013	0.75	0.0042	6.8
CO-374	435	635.85	436	628.55	1,213.7	0.006	30.0	0.013	4.63	3.0183	30.5
CO-375	63	691.00	64	686.50	258.3	0.017	8.0	0.013	0.79	0.0013	4.5
CO-376	436	628.55	437	627.00	630.3	0.002	30.0	0.013	3.36	3.0223	30.6
CO-377	62	688.00	64	686.50	95.2	0.016	8.0	0.013	0.55	0.0004	3.9
CO-378(1)	437	627.00	473	626.31	134.1	0.005	30.0	0.013	4.39	3.0223	28.5
CO-378(2)	473	626.31	323	619.50	1,317.2	0.005	30.0	0.013	4.39	3.0305	30.3
CO-379	61	691.00	60	686.00	484.7	0.010	8.0	0.013	0.82	0.0026	5.1
CO-380	240	702.58	337	706.45	884.6	0.004	8.0	0.013	1.16	0.0238	15.3
CO-381	60	686.00	59	683.50	313.1	0.008	8.0	0.013	0.88	0.0048	6.2
CO-382	280	606.77	Timberbrooks LS	606.50	58.8	0.005	15.0	0.013	2.50	0.3906	24.7
CO-383	59	683.50	208	681.50	258.1	0.008	8.0	0.013	0.91	0.0055	8.4
CO-384	439	682.54	441	675.45	178.5	0.040	15.0	0.013	4.08	0.1551	12.3
CO-385	441	675.45	438	670.33	345.8	0.015	15.0	0.013	2.87	0.1551	28.1
CO-386	58	689.97	60	686.00	174.0	0.023	8.0	0.013	0.59	0.0004	3.8
CO-387	440	686.12	439	682.54	300.9	0.012	15.0	0.013	2.67	0.1551	13.9

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CO-388	57	681.00	56	668.31	413.5	0.031	8.0	0.013	1.22	0.0029	3.9
CO-390	56	668.31	55	665.37	237.4	0.012	8.0	0.013	0.89	0.0029	5.4
CO-392	54	678.00	55	665.37	306.6	0.041	8.0	0.013	1.24	0.0022	5.1
CO-394	53	677.22	52	666.26	424.4	0.026	8.0	0.013	1.16	0.0031	5.0
CO-396	51	672.00	52	666.26	215.7	0.027	8.0	0.013	0.74	0.0007	3.8
CO-398	50	681.00	49	674.00	385.5	0.018	8.0	0.013	0.98	0.0026	4.6
CO-401	49	674.00	225	669.14	252.1	0.019	8.0	0.013	1.08	0.0035	11.4
CO-408	47	676.59	46	659.46	1,248.2	0.014	8.0	0.013	1.25	0.0081	9.5
CO-410	48	677.33	45	651.86	997.6	0.026	8.0	0.013	1.32	0.0046	9.0
CO-413	46	659.46	344	670.00	702.0	0.015	8.0	0.013	1.15	0.0055	8.9
CO-414	343	670.00	45	651.86	985.0	0.018	8.0	0.013	1.26	0.0059	9.4
CO-416	44	629.32	204	627.53	373.1	0.005	8.0	0.013	1.52	0.0521	20.2
CO-418	45	651.86	43	630.25	914.1	0.024	8.0	0.013	2.02	0.0213	16.6
CO-420	43	630.25	44	629.32	188.0	0.005	8.0	0.013	1.53	0.0521	20.9
CO-422	52	666.26	42	647.00	256.6	0.075	8.0	0.013	1.88	0.0042	4.3
CO-424	42	647.00	41	639.00	365.7	0.022	8.0	0.013	1.21	0.0042	8.7
CO-426	312	645.00	40	641.95	208.3	0.015	8.0	0.013	1.32	0.0090	7.4
CO-428	40	641.95	39	622.00	373.0	0.053	8.0	0.013	2.08	0.0090	11.2
CO-430	39	622.00	205	613.90	413.0	0.020	8.0	0.013	2.10	0.0297	12.9
CO-431	38	621.00	93	617.16	148.3	0.026	6.0	0.013	0.77	0.0007	5.3
CO-432	37	621.00	106	619.36	208.5	0.008	6.0	0.013	0.44	0.0004	5.4
CO-433	36	624.00	108	614.00	405.8	0.025	6.0	0.013	1.05	0.0020	8.8
CO-434	35	624.00	106	619.36	483.3	0.010	6.0	0.013	0.77	0.0022	6.9
CO-435	34	626.99	112	615.01	303.4	0.039	12.0	0.013	1.05	0.0018	2.7
CO-436	33	662.09	183	649.00	1,015.0	0.013	6.0	0.013	0.95	0.0031	44.4
CO-437	32	669.74	182	650.00	1,097.2	0.018	6.0	0.013	1.15	0.0040	53.8
CO-438	31	649.81	171	646.05	291.6	0.013	6.0	0.013	0.65	0.0009	5.4
CO-439	30	641.00	172	639.48	265.3	0.006	6.0	0.013	0.50	0.0009	6.3
CO-440	29	658.29	28	638.00	776.5	0.026	6.0	0.013	1.01	0.0018	5.3
CO-441	28	638.00	27	637.33	55.4	0.012	6.0	0.013	0.84	0.0022	5.5

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CO-442	27	637.33	167	629.20	165.0	0.049	6.0	0.013	1.37	0.0022	52.8
CO-443	26	656.00	185	645.00	726.4	0.015	6.0	0.013	1.02	0.0033	40.6
CO-444	25	639.27	173	626.80	539.7	0.023	6.0	0.010	1.24	0.0022	52.8
CO-445	24	633.00	131	628.00	139.7	0.036	8.0	0.013	0.71	0.0004	8.4
CO-446	23	632.98	129	630.50	282.6	0.009	8.0	0.013	0.45	0.0004	7.4
CO-447	160	635.27	12th Street LS (Downtown)	622.00	328.5	0.040	8.0	0.013	2.22	0.0157	8.8
CO-448(1)	22	651.05	477	648.99	743.5	0.003	10.0	0.013	1.65	0.1497	31.4
CO-448(2)	477	648.99	292	647.93	381.5	0.003	10.0	0.013	1.72	0.1705	32.8
CO-449	21	641.91	358	641.44	147.6	0.003	12.0	0.013	2.20	0.3689	37.4
CO-450	358	641.44	202	640.44	347.3	0.003	12.0	0.013	2.15	0.3845	37.4
CO-452	20	696.00	19	693.50	751.8	0.003	8.0	0.013	1.52	0.0818	26.6
CO-453	19	693.50	18	688.75	321.3	0.015	8.0	0.013	2.58	0.0818	25.9
CO-454	17	660.12	359	651.40	1,003.1	0.009	8.0	0.013	1.72	0.0396	17.8
CO-455	359	651.40	202	640.44	551.3	0.020	8.0	0.013	2.46	0.0486	36.7
CO-456	18	688.75	81	687.00	325.0	0.005	8.0	0.013	1.87	0.0939	28.7
CO-461(1)	16	683.00	475	673.00	1,603.5	0.006	8.0	0.013	1.55	0.0411	21.7
CO-461(2)	475	673.00	342	658.95	2,244.4	0.006	8.0	0.013	1.96	0.0915	29.6
CO-462	320	648.58	21	641.91	866.7	0.008	12.0	0.013	3.03	0.3689	33.9
CO-464	14	677.74	285	665.28	1,010.6	0.012	8.0	0.013	0.95	0.0037	6.4
CO-465	79	659.00	12th Street LS (Private)	645.00	403.8	0.035	8.0	0.013	2.59	0.0306	12.4
CO-466	13	636.61	12	626.00	1,177.1	0.009	8.0	0.013	0.56	0.0009	3.1
CO-467	12	626.00	114	623.31	227.5	0.012	8.0	0.013	0.75	0.0018	5.3
CO-468	11	635.83	12	626.00	1,238.6	0.008	8.0	0.013	0.53	0.0009	3.1
CO-469	10	611.22	9	600.00	731.6	0.015	10.0	0.013	1.16	0.0060	4.6
CO-470	9	600.00	8	597.00	587.0	0.005	18.0	0.013	0.73	0.0060	21.9

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CO-471	8	597.00	Justin Treatment Plant	596.00	132.8	0.008	24.0	0.013	4.58	2.0286	29.0
CO-474	425	609.57	426	606.67	473.4	0.006	30.0	0.013	4.88	3.5459	32.7
CO-475	189	620.00	8	597.00	298.0	0.077	18.0	0.013	10.78	2.0226	33.5
CO-476	7	694.00	6	692.50	512.8	0.003	8.0	0.013	1.17	0.0392	20.3
CO-477	6	692.50	5	689.00	1,067.3	0.003	8.0	0.013	1.22	0.0392	21.3
CO-478	4	703.96	1	698.09	835.9	0.007	8.0	0.013	1.15	0.0130	12.4
CO-479	5	689.00	2	688.00	386.2	0.003	8.0	0.013	1.16	0.0444	22.0
CO-480	2	688.00	336	677.25	291.3	0.037	8.0	0.013	3.29	0.0636	17.7
CO-481	3	700.75	1	698.09	564.1	0.005	8.0	0.013	0.98	0.0121	12.7
CO-482	381	694.75	353	694.00	162.1	0.005	8.0	0.013	1.59	0.0640	27.1
CO-483	464	718.00	456	673.00	3,406.4	0.013	15.0	0.013	5.02	1.1930	45.5
CO-484(1)	443	713.00	461	703.00	1,147.3	0.009	18.0	0.013	3.85	0.8421	29.8
CO-484(2)(1)	461	703.00	468	694.90	932.8	0.009	18.0	0.013	4.04	0.9965	32.7
CO-484(2)(2)	468	694.90	434	688.76	708.0	0.009	15.0	0.013	4.20	1.0839	38.6
CO-485	444	798.00	445	733.00	3,754.3	0.017	8.0	0.013	3.21	0.1430	47.5
CO-486	445	733.00	443	713.00	2,582.5	0.008	15.0	0.013	3.60	0.7248	33.8
CO-487(1)	446	787.00	466	772.00	1,496.7	0.010	8.0	0.013	1.21	0.0101	14.4
CO-487(2)	466	772.00	447	770.00	511.4	0.004	8.0	0.013	1.34	0.0439	22.5
CO-488	447	770.00	456	673.00	7,808.9	0.012	8.0	0.013	2.45	0.0850	57.1
CO-489	448	718.00	461	703.00	2,042.7	0.007	8.0	0.013	2.18	0.1091	49.1
CO-490	455	758.00	453	728.00	3,435.9	0.009	10.0	0.013	2.98	0.2817	43.3
CO-491	450	750.00	445	733.00	4,077.0	0.004	12.0	0.013	2.21	0.2640	35.1
CO-492	451	688.00	452	648.00	3,066.6	0.013	15.0	0.013	4.23	0.6601	33.6
CO-493(1)	452	648.00	463	638.00	2,294.5	0.004	18.0	0.013	3.02	0.8498	30.2
CO-493(2)	463	638.00	479	628.00	2,274.3	0.004	21.0	0.013	3.16	1.0438	26.6

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CO-495	453	728.00	Soutwest ETJ LS	723.00	1,858.5	0.003	10.0	0.013	2.12	0.3933	46.6
CO-496	454	728.00	448	718.00	2,028.8	0.005	8.0	0.013	1.82	0.0941	28.1
CO-497	449	791.00	455	758.00	3,220.1	0.010	8.0	0.013	2.75	0.1602	38.8
CO-498	456	673.00	435	635.85	2,699.9	0.014	15.0	0.013	5.37	1.4409	52.3
CO-499	457	673.00	436	628.55	1,440.5	0.031	8.0	0.013	1.34	0.0040	52.7
CO-500	458	688.00	456	673.00	1,524.1	0.010	8.0	0.013	2.38	0.1029	58.4
CO-501	459	610.50	281	607.50	710.1	0.004	12.0	0.013	1.30	0.0434	11.8
CO-502	462	673.00	463	638.00	2,294.2	0.015	8.0	0.013	2.40	0.0616	45.3
CO-503	442	768.00	464	718.00	5,429.8	0.009	15.0	0.013	4.41	1.1930	40.3
CO-504	466	772.00	465	779.00	1,610.0	0.004	8.0	0.013	1.29	0.0337	18.8
CO-505	467	718.00	468	694.90	1,438.6	0.016	8.0	0.013	2.70	0.0874	51.2
CO-506	469	688.00	386	687.25	1,306.5	0.001	12.0	0.013	0.60	0.0340	21.8
CO-507	471	678.00	438	670.33	239.6	0.032	12.0	0.013	2.06	0.0192	29.1
CO-508	470	665.00	342	658.95	1,684.8	0.004	8.0	0.013	1.30	0.0432	26.9
CO-509	472	678.00	176	669.00	1,604.9	0.006	8.0	0.013	2.19	0.1562	39.4
CO-510	474	627.00	473	626.31	61.0	0.011	12.0	0.013	1.10	0.0082	38.1
CO-511	476	649.50	477	648.99	569.4	0.001	8.0	0.013	0.64	0.0208	30.4
CO-512	478	617.00	484	590.00	4,651.4	0.006	10.0	0.013	2.44	0.2328	59.2
CO-513	479	628.00	480	623.00	1,166.6	0.004	21.0	0.013	3.14	1.0438	28.1
CO-514	480	623.00	481	600.00	5,501.6	0.004	21.0	0.013	3.27	1.2545	29.6
CO-515	481	600.00	482	593.00	1,674.0	0.004	21.0	0.013	3.29	1.2796	31.1
CO-516	482	593.00	North ETJ	592.00	133.2	0.008	15.0	0.013	4.19	1.3029	43.4
CO-517	483	600.00	482	593.00	913.7	0.008	8.0	0.013	1.41	0.0233	48.9
CO-519	485	604.00	484	590.00	2,998.4	0.005	12.0	0.013	3.46	1.3029	70.9
CO-520	484	590.00	Denton Creek SS	589.00	171.3	0.006	12.0	0.013	3.91	1.5357	69.2
CO-521	486	619.00	487	615.00	1,826.2	0.002	12.0	0.013	1.19	0.0695	15.3
CO-522	487	615.00	280	606.77	274.1	0.030	12.0	0.013	2.99	0.0695	22.4

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Outfall Table

Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Flow (Total Out) (MGD)
Meadowlands LS	600.74	575.00	0.0462
12th Street LS (Private)	666.05	645.00	0.0306
12th Street LS (Downtown)	637.00	622.00	0.0395
Timberbrooks LS	626.50	606.50	0.3906
Justin Treatment Plant	616.27	596.00	5.9756
Soutwest ETJ LS	730.00	723.00	0.3933
Denton Creek SS	600.00	589.00	1.5357
North ETJ	620.00	592.00	1.3029

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
1	710.15	698.09	0.0000	0.1003	0.1003
2	697.00	688.00	0.0000	0.2543	0.2543
3	713.23	700.75	0.0150	0.0334	0.0484
4	715.75	703.96	0.0150	0.0370	0.0519
5	699.00	689.00	0.0000	0.1778	0.1778
6	701.00	692.50	0.0000	0.1566	0.1566
7	701.00	694.00	0.0000	0.1566	0.1566
8	616.65	597.00	0.0000	3.0484	3.0484
9	624.36	600.00	0.0000	0.0240	0.0240
10	615.22	611.22	0.0240	0.0000	0.0240
11	639.83	635.83	0.0036	0.0000	0.0036
12	630.00	626.00	0.0000	0.0072	0.0072
13	640.61	636.61	0.0036	0.0000	0.0036
14	684.46	677.74	0.0150	0.0000	0.0150
15	665.40	656.95	0.0079	1.3296	1.3375
16	690.00	683.00	0.1644	0.0000	0.1644
17	672.00	660.12	0.0273	0.1311	0.1584
18	695.45	688.75	0.0484	0.3271	0.3755
19	700.00	693.50	0.0000	0.3271	0.3271
20	702.00	696.00	0.3271	0.0000	0.3271
21	655.88	641.91	0.0000	1.4756	1.4756
22	671.67	651.05	0.0000	0.5987	0.5987
23	636.98	632.98	0.0018	0.0000	0.0018
24	637.85	633.00	0.0018	0.0000	0.0018
25	643.27	639.27	0.0088	0.0000	0.0088
26	663.00	656.00	0.0132	0.0000	0.0132
27	641.33	637.33	0.0000	0.0089	0.0089
28	642.00	638.00	0.0018	0.0071	0.0089
29	662.29	658.29	0.0071	0.0000	0.0071
30	645.00	641.00	0.0036	0.0000	0.0036
31	653.81	649.81	0.0035	0.0000	0.0035
32	681.00	669.74	0.0158	0.0000	0.0158
33	673.00	662.09	0.0123	0.0000	0.0123
34	630.99	626.99	0.0070	0.0000	0.0070
35	628.00	624.00	0.0088	0.0000	0.0088
36	628.00	624.00	0.0079	0.0000	0.0079
37	625.00	621.00	0.0018	0.0000	0.0018
38	625.00	621.00	0.0026	0.0000	0.0026
39	626.00	622.00	0.0018	0.1170	0.1188
40	645.95	641.95	0.0000	0.0361	0.0361
41	646.00	639.00	0.0088	0.0722	0.0810
42	654.00	647.00	0.0000	0.0167	0.0167
43	639.22	630.25	0.0000	0.2086	0.2086
44	635.02	629.32	0.0000	0.2086	0.2086
45	664.58	651.86	0.0202	0.0651	0.0854
46	671.94	659.46	0.0202	0.0546	0.0748

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
47	683.37	676.59	0.0326	0.0000	0.0326
48	683.31	677.33	0.0185	0.0000	0.0185
49	680.62	674.00	0.0035	0.0106	0.0141
50	685.00	681.00	0.0106	0.0000	0.0106
51	679.25	672.00	0.0026	0.0000	0.0026
52	670.26	666.26	0.0018	0.0150	0.0167
53	681.22	677.22	0.0123	0.0000	0.0123
54	682.00	678.00	0.0088	0.0000	0.0088
55	669.37	665.37	0.0026	0.0202	0.0229
56	672.31	668.31	0.0000	0.0114	0.0114
57	685.00	681.00	0.0114	0.0000	0.0114
58	693.97	689.97	0.0018	0.0000	0.0018
59	692.00	683.50	0.0026	0.0194	0.0220
60	693.50	686.00	0.0070	0.0123	0.0194
61	695.00	691.00	0.0106	0.0000	0.0106
62	692.00	688.00	0.0018	0.0000	0.0018
63	695.00	691.00	0.0053	0.0000	0.0053
64	693.29	686.50	0.0097	0.0070	0.0167
65	691.97	684.00	0.0106	0.0167	0.0273
66	675.00	671.00	0.0018	0.0678	0.0695
67	689.00	686.00	0.0176	0.0000	0.0176
68	695.50	691.50	0.0176	0.0000	0.0176
69	676.19	672.22	0.0026	0.0475	0.0502
70	678.00	674.00	0.0097	0.0202	0.0299
71	686.09	682.00	0.0106	0.0097	0.0202
72	700.00	696.00	0.0062	0.0035	0.0097
73	702.00	698.00	0.0035	0.0000	0.0035
74	681.64	672.00	0.0273	0.0000	0.0273
75	684.00	669.00	0.0070	0.0273	0.0343
76	680.71	665.00	0.0062	0.0343	0.0405
77	673.00	662.00	0.0000	0.1100	0.1100
78	673.00	661.50	0.0053	0.1100	0.1153
79	670.00	659.00	0.0070	0.1153	0.1223
80	692.64	688.00	0.0026	0.0000	0.0026
81	697.00	687.00	0.0000	0.3755	0.3755
82	696.89	686.50	0.0053	0.3755	0.3808
83	695.07	686.00	0.0000	0.3834	0.3834
84	692.67	682.00	0.1312	0.3834	0.5146
85	686.04	675.00	0.0141	0.5146	0.5287
86	676.00	669.00	0.0036	0.0000	0.0036
87	629.75	625.84	0.0000	0.1849	0.1849
88	634.05	630.05	0.0000	0.1849	0.1849
89	638.00	634.00	0.0000	0.1849	0.1849
90	639.00	635.00	0.1849	0.0000	0.1849
91	608.57	604.57	0.0035	0.0062	0.0097
92	619.26	615.00	0.0062	0.0000	0.0062

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
93	621.16	617.16	0.0132	0.0026	0.0158
94	618.07	614.07	0.0070	0.0185	0.0255
95	596.25	592.25	0.0000	0.1144	0.1144
96	604.14	597.00	0.0000	0.1144	0.1144
97	604.00	600.00	0.0088	0.0959	0.1047
98	604.83	600.83	0.0070	0.0889	0.0959
99	615.32	604.00	0.0035	0.0854	0.0889
100	613.82	607.00	0.0070	0.0625	0.0695
101	613.00	608.00	0.0000	0.0370	0.0370
102	612.36	609.00	0.0000	0.0370	0.0370
103	617.60	615.00	0.0246	0.0123	0.0370
104	623.40	617.00	0.0035	0.0088	0.0123
105	630.59	622.00	0.0088	0.0000	0.0088
106	623.36	619.36	0.0079	0.0106	0.0185
107	618.58	614.58	0.0070	0.0000	0.0070
108	618.00	614.00	0.0018	0.0397	0.0415
109	608.00	604.00	0.0000	0.0705	0.0705
110	612.70	608.70	0.0000	0.0705	0.0705
111	615.01	611.01	0.0097	0.0123	0.0220
112	619.01	615.01	0.0053	0.0070	0.0123
113	632.33	628.33	0.0097	0.0000	0.0097
114	627.31	623.31	0.0044	0.0169	0.0213
115	625.81	621.81	0.0070	0.0213	0.0283
116	622.45	618.45	0.0018	0.0301	0.0318
117	630.32	626.32	0.0000	0.0018	0.0018
118	631.79	627.79	0.0018	0.0000	0.0018
119	636.30	634.00	0.0072	0.0000	0.0072
120	639.00	635.00	0.0054	0.0000	0.0054
121	638.41	635.41	0.0018	0.0000	0.0018
122	638.00	635.00	0.0018	0.0000	0.0018
123	639.37	635.37	0.0090	0.0000	0.0090
124	637.33	634.50	0.0072	0.0000	0.0072
125	639.71	634.00	0.0036	0.0072	0.0108
126	640.00	633.00	0.0000	0.0269	0.0269
127	638.00	632.00	0.0000	0.0305	0.0305
128	638.00	631.00	0.0000	0.0359	0.0359
129	639.00	630.50	0.0197	0.0376	0.0574
130	638.52	629.50	0.0000	0.0574	0.0574
131	638.93	628.00	0.0000	0.0592	0.0592
132	631.15	627.15	0.0000	0.0592	0.0592
133	648.00	644.00	0.0000	0.0361	0.0361
134	657.27	653.27	0.0300	0.0062	0.0361
135	683.62	679.62	0.0062	0.0000	0.0062
136	688.94	684.94	0.0088	0.0000	0.0088
137	684.00	680.00	0.0079	0.0088	0.0167
138	673.70	669.70	0.0053	0.0167	0.0220

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
139	665.44	661.44	0.0132	0.0220	0.0352
140	647.95	643.95	0.0018	0.0352	0.0370
141	649.63	645.63	0.0080	0.0176	0.0256
142	655.77	651.77	0.0035	0.0141	0.0176
143	666.41	662.41	0.0079	0.0062	0.0141
144	676.16	672.16	0.0062	0.0000	0.0062
145	650.00	646.00	0.0116	0.0264	0.0380
146	654.80	650.80	0.0062	0.0203	0.0264
147	663.89	659.89	0.0080	0.0123	0.0203
148	684.50	680.50	0.0123	0.0000	0.0123
149	659.42	655.42	0.0125	0.0212	0.0336
150	682.72	678.72	0.0212	0.0000	0.0212
151	679.20	675.20	0.0176	0.0000	0.0176
152	680.00	676.00	0.0097	0.0000	0.0097
153	642.65	631.50	0.0036	1.5070	1.5106
154	667.28	663.28	0.0160	0.0291	0.0450
155	671.41	667.41	0.0000	0.0114	0.0114
156	678.17	674.17	0.0000	0.0114	0.0114
157	678.92	674.92	0.0018	0.0000	0.0018
158	642.00	630.50	0.0036	1.5265	1.5301
159	674.11	670.11	0.0159	0.0000	0.0159
160	639.27	635.27	0.0000	0.0626	0.0626
161	641.92	636.92	0.0000	0.0256	0.0256
162	644.00	634.50	1.3868	0.0380	1.4248
163	643.00	633.00	0.0036	1.4584	1.4620
164	641.74	631.00	0.0000	1.5106	1.5106
165	643.00	630.00	0.0000	1.5301	1.5301
166	641.00	629.50	0.0000	1.5301	1.5301
167	640.87	629.20	0.0018	1.5390	1.5408
168	639.51	628.50	0.0000	1.5610	1.5610
169	669.64	665.64	0.0070	0.0000	0.0070
170	657.00	653.00	0.0018	0.0070	0.0088
171	650.05	646.05	0.0018	0.0123	0.0141
172	643.48	639.48	0.0026	0.0176	0.0203
173	638.23	626.80	0.0000	1.5698	1.5698
174	657.00	645.64	0.0114	0.0000	0.0114
175	689.00	679.19	0.0114	0.0000	0.0114
176	676.00	669.00	0.0009	0.6361	0.6370
177	675.00	668.00	0.0000	1.1657	1.1657
178	675.00	666.00	0.0000	1.1657	1.1657
179	675.00	665.00	0.0053	1.1692	1.1745
180	668.00	661.00	0.0123	1.1745	1.1868
181	657.50	652.00	0.0018	1.1868	1.1886
182	656.00	650.00	0.0044	1.2044	1.2088
183	656.00	649.00	0.0009	1.2212	1.2220
184	655.00	648.00	0.0026	1.2220	1.2247

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
185	655.00	645.00	0.0062	1.2379	1.2440
186	650.00	640.10	0.0053	1.2555	1.2608
187	636.81	625.80	0.0036	1.2608	1.2643
188	634.90	625.00	0.0000	2.8341	2.8341
189	630.12	620.00	0.0000	3.0244	3.0244
190	633.16	624.00	0.0054	2.8341	2.8395
191	642.00	630.32	0.0229	0.0000	0.0229
192	639.34	635.34	0.0220	0.0000	0.0220
193	661.00	650.50	0.0510	0.0000	0.0510
194	663.00	656.00	0.0581	0.0000	0.0581
195	652.00	645.00	0.0229	0.1091	0.1320
196	660.00	653.00	0.0370	0.0000	0.0370
197	643.00	631.95	0.0035	0.0370	0.0405
198	641.00	630.48	0.0009	0.1725	0.1734
199	640.00	629.51	0.0000	0.1954	0.1954
200	640.00	629.00	0.0361	0.1954	0.2314
201	640.00	628.50	0.0035	0.2543	0.2578
202	657.86	640.44	0.0000	1.7326	1.7326
203	651.68	639.30	0.0000	1.7344	1.7344
204	635.35	627.53	0.0000	0.2086	0.2086
205	627.03	613.90	0.0000	0.1188	0.1188
206	642.00	630.70	0.0176	0.0000	0.0176
207	637.00	626.60	0.0000	0.2754	0.2754
208	692.00	681.50	0.0044	0.0493	0.0537
209	691.63	687.63	0.0035	0.0000	0.0035
210	692.87	688.87	0.0035	0.0000	0.0035
211	692.00	686.00	0.0053	0.0070	0.0123
212	688.97	680.00	0.0035	0.0660	0.0695
213	682.39	678.39	0.0026	0.0695	0.0722
214	678.00	673.10	0.0035	0.0722	0.0757
215	694.00	690.00	0.0150	0.0000	0.0150
216	684.36	672.00	0.0035	0.0906	0.0942
217	691.85	687.85	0.0176	0.0000	0.0176
218	685.00	670.90	0.0035	0.1118	0.1153
219	693.50	689.42	0.0018	0.0000	0.0018
220	692.65	688.63	0.0070	0.0018	0.0088
221	687.02	683.02	0.0026	0.0088	0.0114
222	680.80	676.80	0.0044	0.0114	0.0158
223	688.76	684.76	0.0167	0.0000	0.0167
224	681.00	669.80	0.0018	0.1320	0.1338
225	678.34	669.14	0.0009	0.1478	0.1487
226	675.00	668.49	0.0009	0.1646	0.1654
227	675.00	668.10	0.0000	0.1654	0.1654
228	667.43	663.43	0.0000	0.1654	0.1654
229	660.66	656.66	0.0000	0.1654	0.1654
230	652.07	648.07	0.0000	0.3814	0.3814

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
231	617.00	613.00	0.0000	1.3292	1.3292
232	623.02	619.02	0.0000	1.3292	1.3292
233	634.54	630.54	0.0018	1.2176	1.2194
234	642.74	633.00	0.0018	1.2158	1.2176
235	645.01	634.00	0.0054	1.2104	1.2158
236	646.60	637.50	0.0000	1.2104	1.2104
237	646.27	637.60	0.0000	1.2104	1.2104
238	649.49	645.49	0.0054	0.8236	0.8290
239	654.00	647.00	0.0018	0.8218	0.8236
240	715.79	702.58	0.0202	0.0950	0.1153
241	713.78	701.32	0.0308	0.1153	0.1461
242	707.86	697.69	0.0000	0.2112	0.2112
243	708.74	696.43	0.0255	0.2112	0.2367
244	709.51	694.41	0.0370	0.2367	0.2737
245	697.57	685.41	0.0026	0.2948	0.2974
246	702.25	695.20	0.0211	0.0000	0.0211
247	699.14	684.09	0.0035	0.3344	0.3379
248	693.35	682.77	0.0035	0.3898	0.3934
249	683.16	672.11	0.0018	0.4022	0.4039
250	668.43	660.38	0.0062	0.4171	0.4233
251	690.59	684.04	0.0132	0.0000	0.0132
252	656.00	647.39	0.0000	0.7383	0.7383
253	652.94	646.89	0.0000	0.7383	0.7383
254	628.48	619.55	0.0035	0.8765	0.8800
255	634.67	627.08	0.0158	0.0000	0.0158
256	651.29	640.84	0.0070	0.1100	0.1170
257	679.35	670.87	0.0202	0.0000	0.0202
258	659.57	648.16	0.0044	0.0854	0.0898
259	661.88	652.60	0.0097	0.0387	0.0484
260	685.49	673.84	0.0220	0.0167	0.0387
261	702.55	696.00	0.0167	0.0000	0.0167
262	684.59	677.53	0.0370	0.0000	0.0370
263	666.17	658.54	0.0132	0.0273	0.0405
264	642.59	634.66	0.0035	0.0537	0.0572
265	671.57	665.52	0.0132	0.0000	0.0132
266	638.66	628.22	0.0070	0.0845	0.0915
267	653.78	643.95	0.0079	0.0194	0.0273
268	654.48	647.43	0.0194	0.0000	0.0194
269	653.36	646.31	0.0141	0.0000	0.0141
270	626.58	617.80	0.0106	0.9398	0.9504
271	661.10	652.34	0.0414	0.0000	0.0414
272	627.49	618.69	0.0044	0.9214	0.9258
273	632.66	615.97	0.0114	0.9645	0.9759
274	646.22	640.17	0.0141	0.0000	0.0141
275	626.83	614.51	0.0035	1.0674	1.0710
276	626.86	613.48	0.0158	1.0806	1.0965

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
277	623.97	610.89	0.0000	1.1106	1.1106
278	628.22	622.17	0.0141	0.0000	0.0141
279	629.72	623.67	0.0097	0.0000	0.0097
280	624.65	606.77	0.0000	1.5622	1.5622
281	621.00	607.50	0.0000	0.1737	0.1737
282	680.94	673.59	0.0088	0.0000	0.0088
283	713.91	705.91	0.0370	0.0000	0.0370
284	709.71	699.50	0.0651	0.0000	0.0651
285	676.69	665.28	0.0000	0.0238	0.0238
286	684.35	677.74	0.0678	0.0000	0.0678
287	686.89	679.40	0.0088	0.0000	0.0088
288	681.88	675.31	0.0220	0.0000	0.0220
289	674.27	661.54	0.0000	0.0634	0.0634
290	680.15	662.79	0.0088	0.0326	0.0414
291	678.42	664.04	0.0088	0.0238	0.0326
292	657.93	647.93	0.0000	0.8218	0.8218
293	688.12	680.00	0.0202	0.0000	0.0202
294	685.74	675.28	0.0044	0.0317	0.0361
295	686.10	677.87	0.0114	0.0000	0.0114
296	686.35	674.16	0.0035	0.0422	0.0458
297	686.50	679.94	0.0062	0.0000	0.0062
298	687.19	673.27	0.0044	0.0493	0.0537
299	687.72	680.79	0.0035	0.0000	0.0035
300	683.66	672.05	0.0202	0.0669	0.0871
301	689.48	683.51	0.0132	0.0000	0.0132
302	674.98	667.28	0.0000	0.1399	0.1399
303	688.39	683.19	0.0229	0.0000	0.0229
304	690.09	684.74	0.0299	0.0000	0.0299
305	692.12	678.88	0.0000	1.1782	1.1782
306	677.34	663.81	0.0141	1.2284	1.2424
307	673.34	665.85	0.0317	0.0554	0.0871
308	685.55	677.81	0.0194	0.0000	0.0194
309	683.15	668.86	0.0361	0.0000	0.0361
310	672.84	665.47	0.0088	0.0000	0.0088
311	673.46	666.46	0.0554	0.0000	0.0554
312	652.00	645.00	0.0361	0.0000	0.0361
313	655.00	649.00	0.0000	0.2160	0.2160
314	660.00	656.00	0.0000	0.1620	0.1620
315	665.00	658.50	0.0000	0.1080	0.1080
316	671.00	664.00	0.0540	0.0000	0.0540
317	677.00	670.00	0.0540	0.0000	0.0540
318	670.00	663.00	0.0540	0.0000	0.0540
319	673.00	667.00	0.0540	0.0000	0.0540
320	659.72	648.58	0.0070	1.4686	1.4756
321	652.90	639.66	0.0000	1.7326	1.7326
322	661.52	651.66	0.0000	0.1399	0.1399

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
323	642.14	619.50	0.0000	12.6763	12.6763
324	644.75	634.24	0.0484	0.0748	0.1232
325	669.84	662.79	0.0273	0.0000	0.0273
326	631.39	620.64	0.0053	0.1170	0.1223
327	667.06	660.05	0.0000	0.3150	0.3150
328	687.80	678.10	0.0079	0.0528	0.0607
329	703.09	695.12	0.0185	0.0343	0.0528
330	707.36	699.70	0.0158	0.0185	0.0343
331	712.25	705.20	0.0079	0.0106	0.0185
332	716.88	709.51	0.0106	0.0000	0.0106
333	715.72	708.81	0.0519	0.0000	0.0519
334	665.00	656.25	0.0000	0.3150	0.3150
335	663.00	657.00	0.0000	0.3150	0.3150
336	697.70	677.25	0.0000	0.2543	0.2543
337	714.42	706.45	0.0950	0.0000	0.0950
338	701.95	693.00	0.0220	0.0000	0.0220
339	698.12	683.00	0.0000	0.4145	0.4145
340	699.36	688.00	0.0000	0.3925	0.3925
341	692.05	679.33	0.0000	1.1782	1.1782
342	679.00	658.95	0.0600	0.5387	0.5987
343	676.08	670.00	0.0238	0.0000	0.0238
344	676.08	670.00	0.0220	0.0000	0.0220
345	635.35	614.98	0.0000	12.8849	12.8849
346	700.78	689.42	0.0000	0.3925	0.3925
347	710.14	698.78	0.0334	0.0000	0.0334
348	704.15	692.79	0.0097	0.3494	0.3590
349	709.01	697.65	0.0079	0.0651	0.0730
350	713.82	702.37	0.0000	0.0370	0.0370
351	719.97	708.52	0.0370	0.0000	0.0370
352	717.53	706.17	0.0282	0.0000	0.0282
353	710.67	694.00	0.0202	0.2561	0.2763
354	666.25	650.64	0.0062	1.3824	1.3885
355	675.60	665.60	0.0449	0.0000	0.0449
356	674.28	667.08	0.0801	0.0000	0.0801
357	676.69	669.69	0.0554	0.0000	0.0554
358	656.32	641.44	0.0070	1.5311	1.5381
359	660.14	651.40	0.0132	0.1813	0.1945
360	672.00	665.00	0.0229	0.0000	0.0229
361	685.85	675.46	0.0282	1.1914	1.2196
362	693.00	677.92	0.0132	1.1782	1.1914
363	722.00	715.00	0.0211	0.0000	0.0211
364	719.00	712.00	0.0167	0.0598	0.0766
365	721.00	714.00	0.0378	0.0220	0.0598
366	722.00	715.00	0.0026	0.0194	0.0220
367	733.00	726.00	0.0194	0.0000	0.0194
368	707.00	700.00	0.0088	0.0440	0.0528

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
369	725.00	718.00	0.0185	0.0000	0.0185
370	720.00	713.00	0.0255	0.0000	0.0255
371	713.00	700.00	0.0141	0.0898	0.1038
372	725.00	711.50	0.0035	0.0352	0.0387
373	733.00	723.00	0.0229	0.0000	0.0229
374	720.00	713.00	0.0123	0.0000	0.0123
375	735.00	728.00	0.0440	0.0000	0.0440
376	707.53	696.53	0.0000	0.1734	0.1734
377	713.51	706.51	0.0000	0.0537	0.0537
378	720.85	713.85	0.0202	0.0079	0.0282
379	721.15	714.15	0.0255	0.0000	0.0255
380	726.51	719.51	0.0079	0.0000	0.0079
381	710.66	694.75	0.0000	0.2561	0.2561
382	713.18	703.00	0.0000	0.0405	0.0405
383	726.54	719.54	0.0299	0.0000	0.0299
384	726.84	719.84	0.0290	0.0000	0.0290
385	700.22	685.81	0.0774	0.6863	0.7637
386	699.66	687.25	0.0000	0.6863	0.6863
387	698.53	688.61	0.0543	0.4959	0.5502
388	703.57	693.02	0.0000	0.4959	0.4959
389	716.39	710.00	0.0308	0.0000	0.0308
390	699.69	692.34	0.0000	0.4959	0.4959
391	704.97	695.51	0.0273	0.4378	0.4651
392	706.84	696.28	0.0000	0.4378	0.4378
393	708.51	696.97	0.0000	0.4184	0.4184
394	711.52	697.75	0.0000	0.3991	0.3991
395	718.37	700.29	0.0000	0.1461	0.1461
396	714.19	702.14	0.0114	0.0651	0.0766
397	715.00	702.95	0.0000	0.0651	0.0651
398	741.00	731.00	0.0238	0.0000	0.0238
399	716.82	707.85	0.0000	0.0695	0.0695
400	718.39	709.00	0.0695	0.0000	0.0695
401	730.00	723.00	0.0000	0.2424	0.2424
402	748.00	741.00	0.0466	0.0620	0.1087
403	751.00	744.00	0.0242	0.0378	0.0620
404	762.00	755.00	0.0194	0.0000	0.0194
405	760.00	753.00	0.0185	0.0000	0.0185
406	739.00	732.00	0.0282	0.1056	0.1338
407	744.00	736.00	0.0458	0.0598	0.1056
408	744.00	737.00	0.0000	0.0598	0.0598
409	764.00	757.00	0.0343	0.0000	0.0343
410	762.00	755.00	0.0255	0.0000	0.0255
411	748.00	740.00	0.0414	0.0000	0.0414
412	650.00	638.43	0.0000	0.3814	0.3814
413	715.92	711.00	0.0106	0.0000	0.0106
414	712.20	705.00	0.0194	0.0000	0.0194

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
415	709.79	702.50	0.0194	0.0000	0.0194
416	722.47	715.47	0.0370	0.0000	0.0370
417	719.02	712.02	0.0334	0.0000	0.0334
418	717.45	708.77	0.0132	0.0290	0.0422
419	720.47	707.83	0.0106	0.0299	0.0405
420	716.20	703.53	0.0194	0.0537	0.0730
421	710.00	703.00	0.0070	0.0440	0.0510
422	647.57	639.60	0.0018	0.0000	0.0018
423	650.00	643.00	0.1080	0.0000	0.1080
424	629.82	625.81	0.0018	1.3274	1.3292
425	625.31	609.57	0.0000	13.0037	13.0037
426	621.61	606.67	0.0000	13.2791	13.2791
427	619.19	605.83	0.0000	13.2791	13.2791
428	617.08	604.98	0.0000	13.2791	13.2791
429	617.43	604.14	0.0000	13.2791	13.2791
430	614.23	603.75	0.0000	14.6083	14.6083
431	613.00	603.57	0.0000	14.6083	14.6083
432	611.00	603.16	0.0000	14.6083	14.6083
433	611.23	602.41	0.0000	14.6083	14.6083
434	704.25	688.76	0.2030	4.3357	4.5387
435	657.20	635.85	0.1831	10.7100	10.8931
436	649.22	628.55	0.0000	10.9092	10.9092
437	642.58	627.00	0.0000	10.9092	10.9092
438	688.44	670.33	0.0000	5.2358	5.2358
439	696.60	682.54	0.0000	0.6204	0.6204
440	698.97	686.12	0.6204	0.0000	0.6204
441	691.08	675.45	0.0000	0.6204	0.6204
442	775.00	768.00	3.5921	0.0000	3.5921
443	720.00	713.00	0.4692	2.8993	3.3686
444	805.00	798.00	0.5721	0.0000	0.5721
445	740.00	733.00	1.2714	1.6280	2.8993
446	794.00	787.00	0.0405	0.0000	0.0405
447	777.00	770.00	0.1646	0.1754	0.3401
448	725.00	718.00	0.0601	0.3762	0.4363
449	796.00	791.00	0.6410	0.0000	0.6410
450	757.00	750.00	1.0559	0.0000	1.0559
451	695.00	688.00	2.6405	0.0000	2.6405
452	665.00	648.00	0.7588	2.6405	3.3993
453	735.00	728.00	0.4464	1.1268	1.5732
454	735.00	728.00	0.3762	0.0000	0.3762
455	765.00	758.00	0.4858	0.6410	1.1268
456	680.00	673.00	0.2399	4.3438	4.5837
457	680.00	673.00	0.0161	0.0000	0.0161
458	695.00	688.00	0.4116	0.0000	0.4116
459	615.00	610.50	0.1737	0.0000	0.1737
460	682.86	664.17	0.8906	5.2358	6.1263

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
461	710.00	703.00	0.1813	3.8049	3.9861
462	680.00	673.00	0.2464	0.0000	0.2464
463	651.00	638.00	0.5295	3.6458	4.1752
464	725.00	718.00	0.0000	3.5921	3.5921
465	785.00	779.00	0.1349	0.0000	0.1349
466	782.00	772.00	0.0000	0.1754	0.1754
467	725.00	718.00	0.3496	0.0000	0.3496
468	706.73	694.90	0.0000	4.3357	4.3357
469	695.00	688.00	0.1361	0.0000	0.1361
470	670.00	665.00	0.1728	0.0000	0.1728
471	685.00	678.00	0.0766	0.0000	0.0766
472	685.00	678.00	0.6247	0.0000	0.6247
473	642.54	626.31	0.0000	10.9419	10.9419
474	651.00	627.00	0.0327	0.0000	0.0327
475	680.00	673.00	0.2015	0.1644	0.3659
476	655.00	649.50	0.0832	0.0000	0.0832
477	662.59	648.99	0.0000	0.6819	0.6819
478	624.00	617.00	0.9312	0.0000	0.9312
479	645.00	628.00	0.0000	4.1752	4.1752
480	645.00	623.00	0.8430	4.1752	5.0182
481	625.00	600.00	0.1001	5.0182	5.1182
482	620.00	593.00	0.0000	5.2116	5.2116
483	619.00	600.00	0.0934	0.0000	0.0934
484	600.00	590.00	0.0000	2.2341	2.2341
485	611.00	604.00	1.3029	0.0000	1.3029
486	626.00	619.00	0.2780	0.0000	0.2780
487	622.00	615.00	0.0000	0.2780	0.2780
488	621.06	600.07	0.0000	0.0000	0.0000
489	668.34	664.34	0.0000	0.0000	0.0000
491	620.67	607.00	0.0000	0.0000	0.0000
492	612.00	604.00	0.0000	0.0000	0.0000
493	617.21	603.50	0.0000	0.0000	0.0000
494	621.75	602.00	0.0000	0.0000	0.0000
495	615.51	603.00	0.0000	0.0000	0.0000
496	729.11	722.11	0.0000	0.0000	0.0000
497	655.41	644.22	0.0000	0.0000	0.0000
498	660.78	650.78	0.0000	0.0000	0.0000
499	656.22	645.50	0.0000	0.0000	0.0000

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-1	240	702.58	241	701.32	291.4	0.004	8.0	0.013	1.84	0.1153	34.4
CO-2	241	701.32	242	697.69	852.2	0.004	8.0	0.013	1.95	0.1461	40.6
CO-3	242	697.69	243	696.43	290.7	0.004	8.0	0.013	2.17	0.2112	45.1
CO-4	243	696.43	244	694.41	398.9	0.005	8.0	0.013	2.37	0.2367	45.8
CO-5	239	647.00	238	645.49	401.5	0.004	10.0	0.013	2.80	0.8236	69.2
CO-6	244	694.41	245	685.41	1,382.5	0.007	8.0	0.013	2.70	0.2737	47.6
CO-7	238	645.49	237	637.60	411.9	0.019	10.0	0.013	5.33	0.8290	65.4
CO-8	245	685.41	246	695.20	1,204.2	0.008	8.0	0.013	1.40	0.0211	30.7
CO-9	237	637.60	236	637.50	8.5	0.012	12.0	0.013	4.88	1.2104	54.7
CO-10	245	685.41	247	684.09	317.3	0.004	10.0	0.013	2.31	0.2974	40.5
CO-11	236	637.50	235	634.00	466.8	0.007	12.0	0.013	4.12	1.2104	66.5
CO-12	247	684.09	248	682.77	308.0	0.004	10.0	0.013	2.42	0.3379	41.4
CO-13	235	634.00	234	633.00	295.1	0.003	12.0	0.013	2.99	1.2158	66.9
CO-14	248	682.77	249	672.11	314.3	0.034	10.0	0.013	5.33	0.3934	41.4
CO-15	234	633.00	233	630.54	378.4	0.007	12.0	0.013	3.90	1.2176	58.8
CO-16	249	672.11	250	660.38	321.6	0.036	10.0	0.013	5.51	0.4039	42.2
CO-17	250	660.38	251	684.04	730.2	0.032	8.0	0.013	1.95	0.0132	31.5
CO-18	233	630.54	424	625.81	140.6	0.034	12.0	0.013	7.19	1.2194	59.9
CO-19	424	625.81	232	619.02	202.2	0.034	12.0	0.013	7.36	1.3292	49.9
CO-20	232	619.02	231	613.00	312.8	0.019	12.0	0.013	6.00	1.3292	53.1
CO-21	250	660.38	252	647.39	332.3	0.039	10.0	0.013	5.73	0.4233	59.5
CO-22	231	613.00	430	605.89	258.6	0.027	12.0	0.013	6.84	1.3292	80.6
CO-23	252	647.39	253	646.89	158.8	0.003	10.0	0.013	2.56	0.7383	66.7
CO-24	253	646.89	254	619.55	3,440.3	0.008	10.0	0.013	3.72	0.7383	65.9
CO-25	230	648.07	412	638.43	266.7	0.036	10.0	0.013	5.40	0.3814	45.8
CO-26	412	638.43	237	637.60	309.3	0.003	10.0	0.013	2.10	0.3814	60.6
CO-27	229	656.66	230	648.07	315.5	0.027	10.0	0.013	3.83	0.1654	33.4
CO-28	255	627.08	254	619.55	590.6	0.013	8.0	0.013	1.50	0.0158	52.0
CO-29	228	663.43	229	656.66	460.3	0.015	10.0	0.013	3.08	0.1654	23.6
CO-30	256	640.84	326	620.64	295.6	0.068	8.0	0.013	4.91	0.1170	31.2

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-31	227	668.10	228	663.43	339.0	0.014	10.0	0.013	3.01	0.1654	23.8
CO-32	257	670.87	256	640.84	980.6	0.031	8.0	0.013	2.20	0.0202	20.6
CO-33	226	668.49	227	668.10	100.5	0.004	10.0	0.013	1.92	0.1654	27.8
CO-34	258	648.16	256	640.84	303.2	0.024	8.0	0.013	3.14	0.0898	27.4
CO-35	225	669.14	226	668.49	136.6	0.005	8.0	0.013	2.04	0.1487	36.3
CO-36	259	652.60	258	648.16	309.8	0.014	8.0	0.013	2.18	0.0484	22.1
CO-37	224	669.80	225	669.14	134.9	0.005	8.0	0.013	2.00	0.1338	34.8
CO-38	260	673.84	259	652.60	1,053.0	0.020	8.0	0.013	2.30	0.0387	17.6
CO-39	223	684.76	224	669.80	689.2	0.022	6.0	0.013	1.91	0.0167	30.3
CO-40	260	673.84	261	696.00	818.6	0.027	8.0	0.013	1.99	0.0167	13.7
CO-41	262	677.53	258	648.16	1,100.3	0.027	8.0	0.013	2.50	0.0370	20.9
CO-42	222	676.80	226	668.49	423.1	0.020	8.0	0.013	1.75	0.0158	23.6
CO-43	263	658.54	264	634.66	516.9	0.046	8.0	0.013	3.12	0.0405	18.7
CO-44	221	683.02	222	676.80	213.6	0.029	8.0	0.013	1.80	0.0114	9.8
CO-45	265	665.52	264	634.66	750.4	0.041	8.0	0.013	2.12	0.0132	15.0
CO-46	220	688.63	221	683.02	487.0	0.012	8.0	0.013	1.20	0.0088	8.4
CO-47	266	628.22	264	634.66	293.0	0.022	8.0	0.013	2.66	0.0572	23.1
CO-48	219	689.42	220	688.63	193.8	0.004	6.0	0.013	0.54	0.0018	8.3
CO-49	267	643.95	266	628.22	481.0	0.033	8.0	0.013	2.44	0.0273	19.9
CO-50	218	670.90	224	669.80	266.6	0.004	8.0	0.013	1.81	0.1153	33.1
CO-51	268	647.43	267	643.95	694.3	0.005	8.0	0.013	1.15	0.0194	13.4
CO-52	217	687.85	218	670.90	698.4	0.024	6.0	0.013	2.02	0.0176	29.8
CO-53	269	646.31	270	617.80	581.9	0.049	8.0	0.013	2.30	0.0141	52.4
CO-54	272	618.69	271	652.34	1,548.7	0.022	8.0	0.013	2.41	0.0414	57.1
CO-55	216	672.00	218	670.90	232.2	0.005	8.0	0.013	1.79	0.0942	30.5
CO-56	254	619.55	272	618.69	296.6	0.003	12.0	0.013	2.65	0.8800	63.4
CO-57	215	690.00	216	672.00	860.3	0.021	8.0	0.013	1.76	0.0150	19.3
CO-58	272	618.69	270	617.80	309.2	0.003	12.0	0.013	2.67	0.9258	63.9
CO-59	270	617.80	273	615.97	565.7	0.003	12.0	0.013	2.81	0.9504	64.6
CO-60	214	673.10	216	672.00	245.5	0.004	8.0	0.013	1.65	0.0757	27.0

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Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-61	274	640.17	273	615.97	796.6	0.030	8.0	0.013	1.95	0.0141	54.5
CO-62	213	678.39	214	673.10	185.1	0.029	8.0	0.013	3.13	0.0722	24.3
CO-63	273	615.97	275	614.51	486.5	0.003	12.0	0.013	2.74	0.9759	66.3
CO-64	212	680.00	213	678.39	304.2	0.005	8.0	0.013	1.71	0.0695	23.2
CO-65	266	628.22	275	614.51	553.2	0.025	8.0	0.013	3.19	0.0915	62.9
CO-66	211	686.00	212	680.00	267.7	0.022	8.0	0.013	1.68	0.0123	16.5
CO-67	275	614.51	276	613.48	291.9	0.004	12.0	0.013	2.98	1.0710	66.8
CO-68	210	688.87	211	686.00	157.2	0.018	6.0	0.013	1.12	0.0035	9.8
CO-69	276	613.48	277	610.89	710.4	0.004	12.0	0.013	3.04	1.0965	61.3
CO-70	209	687.63	211	686.00	83.5	0.020	8.0	0.013	1.09	0.0035	7.1
CO-71	278	622.17	277	610.89	673.5	0.017	8.0	0.013	1.60	0.0141	46.8
CO-72	208	681.50	212	680.00	253.8	0.006	8.0	0.013	1.65	0.0537	21.9
CO-73	279	623.67	276	613.48	406.8	0.025	8.0	0.013	1.62	0.0097	54.1
CO-74	277	610.89	280	606.77	365.3	0.011	12.0	0.013	4.70	1.1106	61.0
CO-76	281	607.50	280	606.77	179.1	0.004	12.0	0.013	1.95	0.1737	44.8
CO-77	282	673.59	249	672.11	326.8	0.005	8.0	0.013	0.87	0.0088	30.5
CO-78	283	705.91	247	684.09	1,330.0	0.016	8.0	0.013	2.11	0.0370	34.2
CO-81	207	626.60	426	612.04	307.7	0.047	8.0	0.013	5.53	0.2754	36.5
CO-82	284	699.50	242	697.69	287.2	0.006	8.0	0.013	1.78	0.0651	33.3
CO-83	206	630.70	207	626.60	911.8	0.004	8.0	0.013	1.08	0.0176	29.1
CO-85	345	614.98	425	609.57	1,421.9	0.004	30.0	0.013	5.71	12.8849	63.9
CO-86	289	661.54	17	660.12	285.9	0.005	8.0	0.013	1.62	0.0634	28.6
CO-87	204	627.53	345	626.00	36.4	0.042	8.0	0.013	4.90	0.2086	32.0
CO-88	286	677.74	17	660.12	2,621.1	0.007	8.0	0.013	1.85	0.0678	28.2
CO-89	202	640.44	321	639.66	250.2	0.003	15.0	0.013	3.22	1.7326	63.2
CO-90	201	628.50	207	626.60	240.3	0.008	8.0	0.013	2.85	0.2578	44.9
CO-91	285	665.28	287	679.40	594.4	0.024	8.0	0.013	1.55	0.0088	11.3
CO-92	200	629.00	201	628.50	107.3	0.005	8.0	0.013	2.28	0.2314	45.1
CO-93	288	675.31	289	661.54	1,167.4	0.012	8.0	0.013	1.61	0.0220	17.7
CO-94	199	629.51	200	629.00	270.2	0.002	8.0	0.013	1.56	0.1954	50.2

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Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-95	289	661.54	290	662.79	297.0	0.004	8.0	0.013	1.35	0.0414	21.1
CO-96	198	630.48	199	629.51	271.9	0.004	8.0	0.013	1.92	0.1734	48.3
CO-97	197	631.95	198	630.48	272.7	0.005	8.0	0.013	1.47	0.0405	30.1
CO-98	285	665.28	291	664.04	295.7	0.004	8.0	0.013	1.15	0.0238	15.9
CO-99	196	653.00	197	631.95	1,538.4	0.014	8.0	0.013	1.98	0.0370	17.1
CO-100	291	664.04	290	662.79	284.2	0.004	8.0	0.013	1.28	0.0326	18.2
CO-101	292	647.93	239	647.00	246.9	0.004	10.0	0.013	2.80	0.8218	77.6
CO-102	293	680.00	294	675.28	929.8	0.005	8.0	0.013	1.17	0.0202	15.7
CO-103	295	677.87	294	675.28	357.4	0.007	8.0	0.013	1.12	0.0114	13.7
CO-104	294	675.28	296	674.16	282.6	0.004	8.0	0.013	1.27	0.0361	18.9
CO-105	297	679.94	296	679.00	235.5	0.004	8.0	0.013	0.75	0.0062	7.2
CO-106	195	645.00	198	630.48	884.8	0.016	8.0	0.013	3.07	0.1320	36.7
CO-107	296	674.16	298	673.27	174.1	0.005	8.0	0.013	1.49	0.0458	20.6
CO-108	299	680.79	298	680.00	199.7	0.004	8.0	0.013	0.63	0.0035	5.5
CO-109	194	656.00	195	645.00	692.6	0.016	8.0	0.013	2.39	0.0581	25.8
CO-110	298	673.27	300	672.05	278.6	0.004	8.0	0.013	1.48	0.0537	23.5
CO-111	193	650.50	195	645.00	914.5	0.006	8.0	0.013	1.63	0.0510	25.4
CO-112	301	683.51	300	672.05	815.0	0.014	8.0	0.013	1.47	0.0132	17.4
CO-113	300	672.05	302	667.28	751.5	0.006	8.0	0.013	1.94	0.0871	28.7
CO-114	302	667.28	303	683.19	672.1	0.024	8.0	0.013	2.07	0.0229	22.4
CO-115	192	635.34	199	629.51	829.0	0.007	8.0	0.013	1.35	0.0220	33.5
CO-116	302	667.28	304	684.74	1,027.1	0.017	8.0	0.013	2.01	0.0299	23.3
CO-117	302	667.28	322	651.66	966.7	0.016	8.0	0.013	3.11	0.1399	28.7
CO-118	191	630.32	201	628.50	230.8	0.008	8.0	0.013	1.42	0.0229	28.4
CO-119	305	678.88	362	677.92	177.8	0.005	12.0	0.013	3.60	1.1782	62.0
CO-120	361	675.46	306	663.81	1,437.1	0.008	12.0	0.013	4.25	1.2196	58.8
CO-121	190	624.00	189	620.00	256.5	0.016	18.0	0.013	6.69	2.8395	54.5
CO-122	306	663.81	15	656.95	666.8	0.010	12.0	0.013	4.67	1.2424	60.3
CO-123	307	665.85	15	656.95	1,427.9	0.006	8.0	0.013	1.93	0.0871	58.8
CO-124	308	677.81	307	665.85	849.6	0.014	8.0	0.013	1.65	0.0194	18.6

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Active Scenario: Future Model - Peak Flow (PF=4)
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CO-125	188	625.00	190	624.00	149.2	0.007	18.0	0.013	4.89	2.8341	53.6
CO-126	309	668.86	307	665.85	582.4	0.005	8.0	0.013	1.40	0.0361	21.3
CO-127	187	625.80	188	625.00	137.1	0.006	8.0	0.013	5.60	1.2643	100.0
CO-128	186	640.10	187	625.80	303.8	0.047	8.0	0.013	8.23	1.2608	96.7
CO-129	185	645.00	186	640.10	598.4	0.008	8.0	0.013	5.51	1.2440	96.7
CO-130	310	665.47	306	663.81	543.5	0.003	8.0	0.013	0.76	0.0088	49.3
CO-131	184	648.00	185	645.00	217.1	0.014	8.0	0.013	5.43	1.2247	100.0
CO-132	183	649.00	184	648.00	189.0	0.005	8.0	0.013	5.42	1.2220	100.0
CO-133	182	650.00	183	649.00	389.0	0.003	8.0	0.013	5.36	1.2088	100.0
CO-134	311	666.46	41	639.00	1,530.1	0.018	8.0	0.013	2.46	0.0554	22.1
CO-135	181	652.00	182	650.00	287.4	0.007	8.0	0.013	5.27	1.1886	100.0
CO-136	180	661.00	181	652.00	687.9	0.013	8.0	0.013	5.26	1.1868	100.0
CO-137	179	665.00	180	661.00	388.6	0.010	8.0	0.013	5.21	1.1745	100.0
CO-138	178	666.00	179	665.00	38.0	0.026	8.0	0.013	5.17	1.1657	100.0
CO-139	177	668.00	178	666.00	336.3	0.006	8.0	0.013	5.17	1.1657	100.0
CO-140	176	669.00	177	668.00	368.4	0.003	8.0	0.013	2.82	0.6370	100.0
CO-141	230	648.07	313	649.00	21.7	0.043	8.0	0.013	4.98	0.2160	45.4
CO-142	314	656.00	313	649.00	339.8	0.021	8.0	0.013	3.54	0.1620	37.4
CO-143	315	658.50	314	656.00	143.4	0.017	8.0	0.013	2.96	0.1080	31.4
CO-144	175	679.19	176	669.00	814.3	0.013	8.0	0.013	1.36	0.0114	54.5
CO-145	316	664.00	315	658.50	272.6	0.020	8.0	0.013	2.54	0.0540	23.9
CO-146	174	645.64	186	640.10	667.4	0.008	6.0	0.013	1.22	0.0114	56.4
CO-147	317	670.00	315	658.50	404.5	0.028	8.0	0.013	2.86	0.0540	23.9
CO-148	173	626.80	188	625.00	365.3	0.005	14.0	0.013	3.75	1.5698	63.6
CO-149	318	663.00	314	656.00	396.1	0.018	8.0	0.013	2.43	0.0540	27.2
CO-150	168	628.50	173	626.80	459.3	0.004	14.0	0.013	3.35	1.5610	61.2
CO-151	313	649.00	319	667.00	517.4	0.035	8.0	0.013	3.08	0.0540	30.0
CO-152	172	639.48	168	628.50	391.1	0.028	6.0	0.013	2.21	0.0203	58.6
CO-154	171	646.05	172	639.48	354.8	0.019	6.0	0.013	1.71	0.0141	15.8
CO-155	354	650.64	320	648.58	322.7	0.006	12.0	0.013	3.98	1.3885	64.8

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CO-156	15	656.95	354	650.64	360.7	0.017	12.0	0.013	5.81	1.3375	63.2
CO-157	170	653.00	171	646.05	238.8	0.029	6.0	0.013	1.75	0.0088	12.8
CO-158	321	639.66	203	639.30	105.3	0.003	15.0	0.013	3.34	1.7326	57.4
CO-159	169	665.64	170	653.00	652.8	0.019	6.0	0.013	1.42	0.0070	10.7
CO-160	292	647.93	322	651.66	394.9	0.009	10.0	0.013	2.51	0.1399	50.8
CO-161	203	639.30	323	630.00	377.8	0.025	15.0	0.013	6.98	1.7344	43.9
CO-162	167	629.20	168	628.50	367.2	0.002	14.0	0.013	2.50	1.5408	72.8
CO-163	323	619.50	345	614.98	1,296.4	0.003	30.0	0.013	5.49	12.6763	67.6
CO-164	166	629.50	167	629.20	167.0	0.002	14.0	0.013	2.42	1.5301	82.6
CO-165	43	630.25	324	634.24	897.8	0.004	8.0	0.013	1.89	0.1232	37.9
CO-166	165	630.00	166	629.50	153.0	0.003	14.0	0.013	3.17	1.5301	75.9
CO-167	55	665.37	45	651.86	315.9	0.043	8.0	0.013	2.56	0.0229	18.8
CO-168	46	659.46	324	634.24	889.1	0.028	8.0	0.013	3.16	0.0748	28.2
CO-169	325	662.79	263	658.54	1,005.0	0.004	8.0	0.013	1.20	0.0273	16.4
CO-170	162	634.50	163	633.00	334.4	0.004	14.0	0.013	3.54	1.4248	57.0
CO-171	326	620.64	254	619.55	251.9	0.004	8.0	0.013	1.87	0.1223	63.3
CO-172	252	647.39	334	656.25	262.4	0.034	8.0	0.013	5.09	0.3150	72.2
CO-173	161	636.92	160	635.27	354.0	0.005	8.0	0.013	1.22	0.0256	18.1
CO-174	327	660.05	328	678.10	417.1	0.043	8.0	0.013	3.44	0.0607	34.9
CO-175	158	630.50	165	630.00	200.7	0.002	14.0	0.013	2.83	1.5301	70.4
CO-176	328	678.10	329	695.12	949.3	0.018	8.0	0.013	2.42	0.0528	20.2
CO-177	164	631.00	158	630.50	187.5	0.003	14.0	0.013	2.91	1.5106	71.5
CO-178	329	695.12	330	699.70	756.9	0.006	8.0	0.013	1.45	0.0343	17.8
CO-179	159	670.11	158	630.50	1,038.3	0.038	8.0	0.013	2.18	0.0159	55.3
CO-180	330	699.70	331	705.20	374.2	0.015	8.0	0.013	1.65	0.0185	13.8
CO-181	157	674.92	156	674.17	193.2	0.004	6.0	0.013	0.53	0.0018	9.6
CO-182	331	705.20	332	709.51	705.8	0.006	8.0	0.013	1.03	0.0106	10.3
CO-183	156	674.17	155	667.41	335.7	0.020	6.0	0.013	1.66	0.0114	11.6
CO-184	333	708.81	248	682.77	2,225.1	0.012	8.0	0.013	2.08	0.0519	35.4
CO-185	155	667.41	154	663.28	201.3	0.021	6.0	0.013	1.67	0.0114	18.4

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CO-186	335	657.00	334	656.25	142.1	0.005	8.0	0.013	2.58	0.3150	51.1
CO-187	153	631.50	164	631.00	162.2	0.003	14.0	0.013	3.09	1.5106	68.7
CO-188	335	657.00	327	660.05	174.6	0.017	8.0	0.013	4.02	0.3150	51.1
CO-189	163	633.00	153	631.50	333.0	0.005	14.0	0.013	3.56	1.4620	62.1
CO-190	336	677.25	327	660.05	2,121.0	0.008	8.0	0.013	2.87	0.2543	46.4
CO-191	154	663.28	153	631.50	943.1	0.034	8.0	0.013	2.89	0.0450	59.0
CO-192	152	676.00	156	674.17	322.2	0.006	6.0	0.013	1.01	0.0097	12.9
CO-193	338	693.00	339	683.00	782.3	0.013	8.0	0.013	1.65	0.0220	34.5
CO-194	151	675.20	154	663.28	1,070.0	0.011	8.0	0.013	1.48	0.0176	14.6
CO-195	339	683.00	340	688.00	493.5	0.010	8.0	0.013	3.48	0.3925	55.8
CO-196	150	678.72	149	655.42	1,104.9	0.021	6.0	0.013	2.02	0.0212	20.0
CO-197	339	683.00	341	679.33	137.1	0.027	8.0	0.013	5.06	0.4145	78.3
CO-198	149	655.42	163	633.00	909.9	0.025	6.0	0.013	2.46	0.0336	61.2
CO-199	341	679.33	305	678.88	140.1	0.003	12.0	0.013	2.91	1.1782	67.7
CO-200	22	651.05	342	658.95	617.7	0.013	8.0	0.013	4.21	0.5987	76.6
CO-201	41	639.00	39	622.00	438.3	0.039	8.0	0.013	3.61	0.0810	26.9
CO-202	148	680.50	147	659.89	736.3	0.028	6.0	0.013	1.90	0.0123	15.3
CO-203	147	659.89	146	650.80	495.2	0.018	6.0	0.013	1.91	0.0203	18.5
CO-204	146	650.80	145	646.00	329.3	0.015	6.0	0.013	1.90	0.0264	21.8
CO-205	145	646.00	162	634.50	453.5	0.025	6.0	0.013	2.57	0.0380	61.9
CO-206	346	689.42	340	688.00	142.3	0.010	8.0	0.013	3.46	0.3925	52.6
CO-207	347	698.78	346	689.42	937.7	0.010	8.0	0.013	1.72	0.0334	35.2
CO-208	144	672.16	143	662.41	374.8	0.026	6.0	0.013	1.49	0.0062	11.9
CO-209	348	692.79	346	689.42	337.1	0.010	8.0	0.013	3.39	0.3590	53.7
CO-210	143	662.41	142	651.77	460.6	0.023	6.0	0.013	1.85	0.0141	15.2
CO-211	349	697.65	348	692.79	485.6	0.010	8.0	0.013	2.17	0.0730	37.8
CO-212	142	651.77	141	645.63	435.8	0.014	6.0	0.013	1.66	0.0176	17.7
CO-213	350	702.37	349	697.65	472.0	0.010	8.0	0.013	1.77	0.0370	19.6
CO-214	141	645.63	161	636.92	486.9	0.018	6.0	0.013	2.02	0.0256	19.7
CO-215	351	708.52	350	702.37	615.0	0.010	8.0	0.013	1.77	0.0370	15.5

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-216	140	643.95	160	635.27	617.3	0.014	6.0	0.013	2.07	0.0370	25.9
CO-217	352	706.17	349	697.65	867.6	0.010	8.0	0.013	1.63	0.0282	18.6
CO-218	139	661.44	140	643.95	789.8	0.022	6.0	0.013	2.40	0.0352	23.2
CO-219	138	669.70	139	661.44	345.6	0.024	6.0	0.013	2.14	0.0220	20.5
CO-220	137	680.00	138	669.70	508.1	0.020	6.0	0.013	1.87	0.0167	16.8
CO-221	353	694.00	348	692.79	652.5	0.002	8.0	0.013	1.66	0.2763	60.8
CO-222	136	684.94	137	680.00	379.1	0.013	6.0	0.013	1.32	0.0088	13.5
CO-223	355	665.60	354	650.64	1,778.9	0.008	8.0	0.013	1.77	0.0449	57.7
CO-224	135	679.62	134	653.27	1,335.1	0.020	6.0	0.013	1.38	0.0062	16.3
CO-225	134	653.27	133	644.00	562.7	0.016	6.0	0.013	2.18	0.0361	21.0
CO-226	133	644.00	12th Street LS (Downtown)	622.00	549.6	0.040	6.0	0.013	2.98	0.0361	19.2
CO-227	356	667.08	320	648.58	2,402.2	0.008	8.0	0.013	2.04	0.0801	60.5
CO-228	132	627.15	12th Street LS (Downtown)	622.00	244.8	0.021	6.0	0.013	2.74	0.0592	26.3
CO-229	357	669.69	358	641.44	1,728.6	0.016	8.0	0.013	2.38	0.0554	60.0
CO-230	131	628.00	132	627.15	405.8	0.002	6.0	0.013	1.20	0.0592	35.6
CO-231	130	629.50	131	628.00	197.5	0.008	8.0	0.013	1.83	0.0574	25.6
CO-232	129	630.50	130	629.50	383.8	0.003	8.0	0.013	1.26	0.0574	23.0
CO-233	128	631.00	129	630.50	153.7	0.003	8.0	0.013	1.18	0.0359	22.4
CO-234	360	665.00	359	651.40	1,183.8	0.011	8.0	0.013	1.61	0.0229	25.4
CO-235	127	632.00	128	631.00	351.8	0.003	8.0	0.013	1.08	0.0305	18.8
CO-236	362	677.92	361	675.46	471.7	0.005	12.0	0.013	3.56	1.1914	60.6
CO-237	126	633.00	127	632.00	344.4	0.003	8.0	0.013	1.05	0.0269	17.7
CO-238	5	689.00	363	715.00	673.2	0.039	8.0	0.013	2.42	0.0211	29.6
CO-239	125	634.00	126	633.00	179.5	0.006	8.0	0.013	0.99	0.0108	13.3
CO-240	364	712.00	2	688.00	890.5	0.027	8.0	0.013	3.12	0.0766	33.7

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-241	124	634.50	125	634.00	212.1	0.002	8.0	0.013	0.66	0.0072	9.5
CO-242	365	714.00	364	712.00	276.5	0.007	8.0	0.013	1.83	0.0598	22.2
CO-243	123	635.37	126	633.00	321.6	0.007	8.0	0.013	1.05	0.0090	12.6
CO-244	366	715.00	365	714.00	306.0	0.003	8.0	0.013	1.03	0.0220	17.9
CO-245	122	635.00	127	632.00	178.5	0.017	8.0	0.013	0.84	0.0018	11.0
CO-246	367	726.00	366	715.00	807.7	0.014	8.0	0.013	1.63	0.0194	13.4
CO-247	121	635.41	127	632.00	173.3	0.020	8.0	0.013	0.89	0.0018	11.0
CO-248	368	700.00	7	694.00	460.6	0.013	8.0	0.013	2.16	0.0528	30.8
CO-249	120	635.00	128	631.00	150.1	0.027	8.0	0.013	1.40	0.0054	12.7
CO-250	369	718.00	368	700.00	841.0	0.021	8.0	0.013	1.88	0.0185	15.5
CO-251	119	634.00	126	633.00	500.8	0.002	8.0	0.013	0.62	0.0072	13.5
CO-252	370	713.00	368	700.00	1,071.5	0.012	8.0	0.013	1.70	0.0255	16.5
CO-253	118	627.79	117	626.32	289.7	0.005	8.0	0.013	0.55	0.0018	3.9
CO-254	371	700.00	7	694.00	1,023.4	0.006	8.0	0.013	1.99	0.1038	35.2
CO-255	117	626.32	116	618.45	198.6	0.040	6.0	0.013	1.19	0.0018	13.4
CO-256	372	711.50	371	700.00	310.2	0.037	8.0	0.013	2.85	0.0387	22.4
CO-257	115	621.81	116	618.45	445.2	0.008	6.0	0.013	1.54	0.0283	21.1
CO-258	373	723.00	372	711.50	1,099.7	0.010	8.0	0.013	1.56	0.0229	14.7
CO-259	114	623.31	115	621.81	233.6	0.006	6.0	0.013	1.33	0.0213	19.4
CO-260	374	713.00	372	711.50	582.4	0.003	8.0	0.013	0.80	0.0123	14.3
CO-261	113	628.33	114	623.31	342.6	0.015	6.0	0.013	1.41	0.0097	15.1
CO-262	421	703.00	371	700.00	712.0	0.004	8.0	0.013	1.44	0.0510	24.8
CO-263	375	728.00	421	703.00	1,201.3	0.021	8.0	0.013	2.42	0.0440	19.6
CO-264	1	698.09	376	696.53	355.3	0.004	8.0	0.013	1.77	0.1003	33.9
CO-265	112	615.01	111	611.01	237.9	0.017	6.0	0.013	1.59	0.0123	15.7
CO-266	420	703.53	376	696.53	605.5	0.012	8.0	0.013	2.28	0.0730	30.5
CO-267	377	706.51	420	703.53	298.4	0.010	8.0	0.013	1.98	0.0537	21.3
CO-268	111	611.01	110	608.70	275.6	0.008	6.0	0.013	1.48	0.0220	25.3
CO-269	378	713.85	377	706.51	733.8	0.010	8.0	0.013	1.64	0.0282	16.9
CO-270	110	608.70	109	604.00	344.3	0.014	6.0	0.013	2.48	0.0705	30.1

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Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-271	379	714.15	377	706.51	764.5	0.010	8.0	0.013	1.59	0.0255	16.6
CO-272	380	719.51	378	713.85	565.7	0.010	8.0	0.013	1.11	0.0079	10.8
CO-273	109	604.00	Meadowlands LS	575.00	387.8	0.075	6.0	0.013	4.51	0.0705	25.4
CO-275	116	618.45	108	614.00	188.1	0.024	6.0	0.013	2.38	0.0318	23.3
CO-276	376	696.53	381	694.75	339.3	0.005	8.0	0.013	2.21	0.1734	43.5
CO-277	108	614.00	110	608.70	259.6	0.020	6.0	0.013	2.45	0.0415	28.8
CO-278	381	694.75	382	703.00	251.3	0.033	8.0	0.013	2.76	0.0405	33.0
CO-279	107	614.58	110	608.70	315.6	0.019	6.0	0.013	1.40	0.0070	21.4
CO-280	419	707.83	382	703.00	385.6	0.013	8.0	0.013	1.97	0.0405	15.8
CO-281	383	719.54	419	707.83	1,171.0	0.010	8.0	0.013	1.67	0.0299	15.8
CO-282	418	708.77	381	694.75	473.6	0.030	8.0	0.013	2.71	0.0422	33.2
CO-283	384	719.84	418	708.77	1,106.7	0.010	8.0	0.013	1.65	0.0290	15.9
CO-284	385	685.81	341	679.33	484.7	0.013	12.0	0.013	4.53	0.7637	59.9
CO-285	105	622.00	104	617.00	414.5	0.012	8.0	0.013	1.22	0.0088	8.6
CO-286	386	687.25	385	685.81	641.4	0.002	12.0	0.013	2.27	0.6863	51.7
CO-287	104	617.00	103	615.00	206.6	0.010	8.0	0.013	1.26	0.0123	13.3
CO-288	387	688.61	386	687.25	444.9	0.003	12.0	0.013	2.42	0.5502	51.7
CO-289	103	615.00	102	609.00	1,139.8	0.005	8.0	0.013	1.42	0.0370	16.8
CO-290	388	693.02	390	692.34	257.6	0.003	12.0	0.013	2.23	0.4959	52.6
CO-291	102	609.00	101	608.00	117.7	0.008	8.0	0.013	1.68	0.0370	16.3
CO-292	389	710.00	388	693.02	1,344.6	0.013	8.0	0.013	1.83	0.0308	41.3
CO-293	101	608.00	100	607.00	152.9	0.007	8.0	0.013	1.53	0.0370	19.8
CO-294	100	607.00	99	604.00	533.6	0.006	8.0	0.013	1.75	0.0695	24.3
CO-295	99	604.00	98	600.83	341.8	0.009	8.0	0.013	2.24	0.0889	30.4
CO-296	390	692.34	387	692.22	161.6	0.001	12.0	0.013	1.37	0.4959	48.3
CO-297	98	600.83	97	600.00	397.2	0.002	8.0	0.013	1.34	0.0959	31.5
CO-298	391	695.51	388	693.02	1,082.9	0.002	12.0	0.013	2.08	0.4651	45.2
CO-299	97	600.00	96	597.00	421.0	0.007	8.0	0.013	2.14	0.1047	28.3
CO-300	392	696.28	391	695.51	286.3	0.003	12.0	0.013	2.17	0.4378	43.6

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Active Scenario: Future Model - Peak Flow (PF=4)
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CO-301	96	597.00	95	592.25	458.7	0.010	8.0	0.013	2.50	0.1144	27.3
CO-302	393	696.97	392	696.28	250.7	0.003	12.0	0.013	2.16	0.4184	41.3
CO-303	95	592.25	Meadowlands LS	575.00	518.3	0.033	8.0	0.013	3.78	0.1144	24.1
CO-304	394	697.75	393	696.97	281.7	0.003	12.0	0.013	2.14	0.3991	40.1
CO-305	106	619.36	94	614.07	439.9	0.012	6.0	0.013	1.59	0.0185	17.9
CO-306	395	700.29	394	697.75	850.9	0.003	10.0	0.013	1.69	0.1461	38.4
CO-307	94	614.07	100	607.00	458.6	0.015	6.0	0.013	1.92	0.0255	25.2
CO-308	396	702.14	395	700.29	698.9	0.003	10.0	0.013	1.34	0.0766	25.7
CO-309	397	702.95	396	702.14	269.9	0.003	10.0	0.013	1.34	0.0651	20.7
CO-310	93	617.16	99	604.00	836.4	0.016	6.0	0.013	1.68	0.0158	24.6
CO-311	92	615.00	91	604.57	476.8	0.022	6.0	0.013	1.43	0.0062	10.7
CO-312	398	731.00	397	702.95	849.2	0.033	8.0	0.013	2.36	0.0238	18.7
CO-313	91	604.57	96	597.00	216.8	0.035	6.0	0.013	1.92	0.0097	25.2
CO-314	90	635.00	89	634.00	343.2	0.003	8.0	0.013	1.81	0.1849	41.7
CO-315	399	707.85	395	700.29	435.5	0.017	8.0	0.013	2.60	0.0695	29.6
CO-316	89	634.00	88	630.05	411.2	0.010	8.0	0.013	2.80	0.1849	35.3
CO-317	88	630.05	87	625.84	523.1	0.008	8.0	0.013	2.62	0.1849	36.1
CO-318	400	709.00	399	707.85	271.3	0.004	8.0	0.013	1.58	0.0695	23.7
CO-319	87	625.84	189	620.00	375.6	0.016	8.0	0.013	3.32	0.1849	68.5
CO-320	86	669.00	179	665.00	760.4	0.005	6.0	0.013	0.03	0.0036	100.0
CO-321	85	675.00	177	668.00	890.7	0.008	8.0	0.013	2.34	0.5287	100.0
CO-322	401	723.00	394	697.75	1,998.2	0.013	8.0	0.013	3.32	0.2424	51.0
CO-323	84	682.00	85	675.00	564.1	0.012	8.0	0.013	4.02	0.5146	81.7
CO-324	402	741.00	401	723.00	1,418.8	0.013	8.0	0.013	2.65	0.1087	35.4
CO-325	83	686.00	84	682.00	209.2	0.019	8.0	0.013	4.38	0.3834	58.8
CO-326	403	744.00	402	741.00	790.9	0.004	8.0	0.013	1.47	0.0620	26.2
CO-327	82	686.50	83	686.00	151.9	0.003	8.0	0.013	2.23	0.3808	62.6
CO-328	404	755.00	403	744.00	836.8	0.013	8.0	0.013	1.61	0.0194	18.0
CO-329	81	687.00	82	686.50	133.5	0.004	8.0	0.013	2.34	0.3755	68.8

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CO-330	405	753.00	403	744.00	588.3	0.015	8.0	0.013	1.66	0.0185	17.9
CO-331	80	688.00	83	686.00	320.5	0.006	8.0	0.013	0.67	0.0026	29.5
CO-332	406	732.00	401	723.00	1,155.9	0.008	8.0	0.013	2.36	0.1338	37.0
CO-333	407	736.00	406	732.00	664.2	0.006	8.0	0.013	2.02	0.1056	29.8
CO-334	78	661.50	79	659.00	324.9	0.008	8.0	0.013	2.26	0.1153	29.5
CO-335	408	737.00	407	736.00	270.9	0.004	8.0	0.013	1.44	0.0598	26.1
CO-336	77	662.00	78	661.50	50.3	0.010	8.0	0.013	2.44	0.1100	28.7
CO-337	409	757.00	408	737.00	1,140.8	0.018	8.0	0.013	2.12	0.0343	19.8
CO-338	76	665.00	77	662.00	485.5	0.006	8.0	0.013	1.54	0.0405	22.9
CO-339	410	755.00	408	737.00	1,141.4	0.016	8.0	0.013	1.86	0.0255	18.7
CO-340	75	669.00	76	665.00	475.3	0.008	8.0	0.013	1.63	0.0343	16.5
CO-341	411	740.00	397	702.95	1,072.5	0.035	8.0	0.013	2.83	0.0414	20.8
CO-342	74	672.00	75	669.00	401.4	0.007	8.0	0.013	1.46	0.0273	14.8
CO-346	413	711.00	394	697.75	639.1	0.021	8.0	0.013	1.56	0.0106	34.0
CO-347	414	705.00	393	696.97	610.2	0.013	8.0	0.013	1.61	0.0194	36.3
CO-348	415	702.50	392	696.28	607.9	0.010	8.0	0.013	1.47	0.0194	37.3
CO-349	73	698.00	72	696.00	255.4	0.008	6.0	0.013	0.83	0.0035	9.6
CO-350	416	715.47	4	703.96	1,151.0	0.010	8.0	0.013	1.77	0.0370	17.8
CO-351	72	696.00	71	682.00	576.3	0.024	6.0	0.013	1.68	0.0097	13.9
CO-352	417	712.02	3	700.75	1,127.0	0.010	8.0	0.013	1.73	0.0334	17.9
CO-353	71	682.00	70	674.00	390.1	0.021	8.0	0.013	1.89	0.0202	13.3
CO-354	422	639.60	203	639.30	133.7	0.002	8.0	0.013	0.42	0.0018	76.1
CO-355	70	674.00	69	672.22	263.7	0.007	8.0	0.013	1.45	0.0299	17.8
CO-356	423	643.00	424	625.81	1,116.5	0.015	8.0	0.013	2.83	0.1080	60.0
CO-357	205	613.90	425	612.00	43.1	0.044	8.0	0.013	4.23	0.1188	23.9
CO-358	426	606.67	427	605.83	294.4	0.003	30.0	0.013	4.19	13.2791	100.0
CO-359	427	605.83	428	604.98	300.8	0.003	30.0	0.013	4.19	13.2791	100.0
CO-360	68	691.50	69	672.22	1,223.9	0.016	6.0	0.013	1.73	0.0176	22.0
CO-361	428	604.98	429	604.14	212.1	0.004	30.0	0.013	4.19	13.2791	100.0
CO-362	429	604.14	430	603.75	203.9	0.002	30.0	0.013	4.19	13.2791	100.0

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CO-363	67	686.00	66	671.00	1,226.7	0.012	6.0	0.013	1.59	0.0176	23.0
CO-364	430	603.75	431	603.57	84.1	0.002	30.0	0.013	4.60	14.6083	100.0
CO-365	431	603.57	432	603.16	317.5	0.001	30.0	0.013	4.60	14.6083	100.0
CO-366	69	672.22	66	671.00	273.5	0.004	8.0	0.013	1.46	0.0502	21.7
CO-367	66	671.00	77	662.00	275.9	0.033	8.0	0.013	3.24	0.0695	25.4
CO-368	432	603.16	433	602.41	556.6	0.001	30.0	0.013	4.60	14.6083	82.4
CO-369	433	602.41	Justin Treatment Plant	596.00	189.0	0.034	30.0	0.013	13.44	14.6083	51.1
CO-370	65	684.00	208	681.50	426.9	0.006	8.0	0.013	1.34	0.0273	17.4
CO-371	434	688.76	438	670.33	2,927.0	0.006	21.0	0.013	5.37	4.5387	58.2
CO-372(1)	438	670.33	460	664.17	1,000.5	0.006	21.0	0.013	5.51	5.2358	62.9
CO-372(2)	460	664.17	435	635.85	4,596.4	0.006	21.0	0.013	5.69	6.1263	72.4
CO-373	64	686.50	65	684.00	448.6	0.006	8.0	0.013	1.14	0.0167	13.1
CO-374	435	635.85	436	628.55	1,213.7	0.006	30.0	0.013	6.57	10.8931	62.5
CO-375	63	691.00	64	686.50	258.3	0.017	8.0	0.013	1.20	0.0053	8.9
CO-376	436	628.55	437	627.00	630.3	0.002	30.0	0.013	4.63	10.9092	62.6
CO-377	62	688.00	64	686.50	95.2	0.016	8.0	0.013	0.82	0.0018	7.6
CO-378(1)	437	627.00	473	626.31	134.1	0.005	30.0	0.013	6.21	10.9092	55.6
CO-378(2)	473	626.31	323	619.50	1,317.2	0.005	30.0	0.013	6.21	10.9419	62.0
CO-379	61	691.00	60	686.00	484.7	0.010	8.0	0.013	1.24	0.0106	10.2
CO-380	240	702.58	337	706.45	884.6	0.004	8.0	0.013	1.74	0.0950	30.6
CO-381	60	686.00	59	683.50	313.1	0.008	8.0	0.013	1.35	0.0194	12.1
CO-382	280	606.77	Timberbrooks LS	606.50	58.8	0.005	15.0	0.013	3.66	1.5622	51.4
CO-383	59	683.50	208	681.50	258.1	0.008	8.0	0.013	1.39	0.0220	16.3
CO-384	439	682.54	441	675.45	178.5	0.040	15.0	0.013	6.15	0.6204	24.6
CO-385	441	675.45	438	670.33	345.8	0.015	15.0	0.013	4.34	0.6204	57.6
CO-386	58	689.97	60	686.00	174.0	0.023	8.0	0.013	0.94	0.0018	7.6
CO-387	440	686.12	439	682.54	300.9	0.012	15.0	0.013	4.02	0.6204	27.9

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-388	57	681.00	56	668.31	413.5	0.031	8.0	0.013	1.83	0.0114	7.7
CO-390	56	668.31	55	665.37	237.4	0.012	8.0	0.013	1.35	0.0114	10.8
CO-392	54	678.00	55	665.37	306.6	0.041	8.0	0.013	1.88	0.0088	10.3
CO-394	53	677.22	52	666.26	424.4	0.026	8.0	0.013	1.76	0.0123	10.1
CO-396	51	672.00	52	666.26	215.7	0.027	8.0	0.013	1.14	0.0026	7.6
CO-398	50	681.00	49	674.00	385.5	0.018	8.0	0.013	1.49	0.0106	9.3
CO-401	49	674.00	225	669.14	252.1	0.019	8.0	0.013	1.68	0.0141	22.9
CO-408	47	676.59	46	659.46	1,248.2	0.014	8.0	0.013	1.91	0.0326	19.3
CO-410	48	677.33	45	651.86	997.6	0.026	8.0	0.013	2.01	0.0185	18.2
CO-413	46	659.46	344	670.00	702.0	0.015	8.0	0.013	1.75	0.0220	17.9
CO-414	343	670.00	45	651.86	985.0	0.018	8.0	0.013	1.92	0.0238	18.9
CO-416	44	629.32	204	627.53	373.1	0.005	8.0	0.013	2.24	0.2086	41.3
CO-418	45	651.86	43	630.25	914.1	0.024	8.0	0.013	3.08	0.0854	33.8
CO-420	43	630.25	44	629.32	188.0	0.005	8.0	0.013	2.27	0.2086	42.9
CO-422	52	666.26	42	647.00	256.6	0.075	8.0	0.013	2.81	0.0167	8.6
CO-424	42	647.00	41	639.00	365.7	0.022	8.0	0.013	1.84	0.0167	17.5
CO-426	312	645.00	40	641.95	208.3	0.015	8.0	0.013	2.02	0.0361	14.7
CO-428	40	641.95	39	622.00	373.0	0.053	8.0	0.013	3.17	0.0361	22.8
CO-430	39	622.00	205	613.90	413.0	0.020	8.0	0.013	3.18	0.1188	25.9
CO-431	38	621.00	93	617.16	148.3	0.026	6.0	0.013	1.15	0.0026	10.7
CO-432	37	621.00	106	619.36	208.5	0.008	6.0	0.013	0.68	0.0018	10.9
CO-433	36	624.00	108	614.00	405.8	0.025	6.0	0.013	1.60	0.0079	17.8
CO-434	35	624.00	106	619.36	483.3	0.010	6.0	0.013	1.18	0.0088	13.9
CO-435	34	626.99	112	615.01	303.4	0.039	12.0	0.013	1.64	0.0070	5.5
CO-436	33	662.09	183	649.00	1,015.0	0.013	6.0	0.013	1.45	0.0123	56.7
CO-437	32	669.74	182	650.00	1,097.2	0.018	6.0	0.013	1.76	0.0158	57.6
CO-438	31	649.81	171	646.05	291.6	0.013	6.0	0.013	0.99	0.0035	10.7
CO-439	30	641.00	172	639.48	265.3	0.006	6.0	0.013	0.76	0.0036	12.6
CO-440	29	658.29	28	638.00	776.5	0.026	6.0	0.013	1.58	0.0071	10.7
CO-441	28	638.00	27	637.33	55.4	0.012	6.0	0.013	1.28	0.0089	10.8

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-442	27	637.33	167	629.20	165.0	0.049	6.0	0.013	2.09	0.0089	55.7
CO-443	26	656.00	185	645.00	726.4	0.015	6.0	0.013	1.57	0.0132	56.9
CO-444	25	639.27	173	626.80	539.7	0.023	6.0	0.010	1.94	0.0088	55.6
CO-445	24	633.00	131	628.00	139.7	0.036	8.0	0.013	1.11	0.0018	17.2
CO-446	23	632.98	129	630.50	282.6	0.009	8.0	0.013	0.68	0.0018	14.6
CO-447	160	635.27	12th Street LS (Downtown)	622.00	328.5	0.040	8.0	0.013	3.39	0.0626	17.4
CO-448(1)	22	651.05	477	648.99	743.5	0.003	10.0	0.013	2.35	0.5987	71.5
CO-448(2)	477	648.99	292	647.93	381.5	0.003	10.0	0.013	2.40	0.6819	76.3
CO-449	21	641.91	358	641.44	147.6	0.003	12.0	0.013	2.91	1.4756	100.0
CO-450	358	641.44	202	640.44	347.3	0.003	12.0	0.013	3.03	1.5381	90.1
CO-452	20	696.00	19	693.50	751.8	0.003	8.0	0.013	2.18	0.3271	56.6
CO-453	19	693.50	18	688.75	321.3	0.015	8.0	0.013	3.82	0.3271	54.5
CO-454	17	660.12	359	651.40	1,003.1	0.009	8.0	0.013	2.58	0.1584	36.2
CO-455	359	651.40	202	640.44	551.3	0.020	8.0	0.013	3.68	0.1945	69.0
CO-456	18	688.75	81	687.00	325.0	0.005	8.0	0.013	2.71	0.3755	62.9
CO-461(1)	16	683.00	475	673.00	1,603.5	0.006	8.0	0.013	2.31	0.1644	45.3
CO-461(2)	475	673.00	342	658.95	2,244.4	0.006	8.0	0.013	2.85	0.3659	61.9
CO-462	320	648.58	21	641.91	866.7	0.008	12.0	0.013	4.34	1.4756	82.3
CO-464	14	677.74	285	665.28	1,010.6	0.012	8.0	0.013	1.46	0.0150	12.5
CO-465	79	659.00	12th Street LS (Private)	645.00	403.8	0.035	8.0	0.013	3.92	0.1223	24.8
CO-466	13	636.61	12	626.00	1,177.1	0.009	8.0	0.013	0.85	0.0036	6.1
CO-467	12	626.00	114	623.31	227.5	0.012	8.0	0.013	1.14	0.0072	10.5
CO-468	11	635.83	12	626.00	1,238.6	0.008	8.0	0.013	0.81	0.0036	6.2
CO-469	10	611.22	9	600.00	731.6	0.015	10.0	0.013	1.76	0.0240	9.0
CO-470	9	600.00	8	597.00	587.0	0.005	18.0	0.013	1.10	0.0240	28.0

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-471	8	597.00	Justin Treatment Plant	596.00	132.8	0.008	24.0	0.013	5.14	3.0484	35.8
CO-474	425	609.57	426	606.67	473.4	0.006	30.0	0.013	6.90	13.0037	80.5
CO-475	189	620.00	8	597.00	298.0	0.077	18.0	0.013	12.11	3.0244	41.2
CO-476	7	694.00	6	692.50	512.8	0.003	8.0	0.013	1.73	0.1566	41.5
CO-477	6	692.50	5	689.00	1,067.3	0.003	8.0	0.013	1.81	0.1566	43.9
CO-478	4	703.96	1	698.09	835.9	0.007	8.0	0.013	1.74	0.0519	24.6
CO-479	5	689.00	2	688.00	386.2	0.003	8.0	0.013	1.71	0.1778	45.4
CO-480	2	688.00	336	677.25	291.3	0.037	8.0	0.013	4.96	0.2543	35.8
CO-481	3	700.75	1	698.09	564.1	0.005	8.0	0.013	1.47	0.0484	25.1
CO-482	381	694.75	353	694.00	162.1	0.005	8.0	0.013	2.33	0.2561	59.0
CO-483	464	718.00	456	673.00	3,406.4	0.013	15.0	0.013	6.64	3.5921	80.8
CO-484(1)	443	713.00	461	703.00	1,147.3	0.009	18.0	0.013	5.63	3.3686	61.3
CO-484(2)(1)	461	703.00	468	694.90	932.8	0.009	18.0	0.013	5.85	3.9861	82.0
CO-484(2)(2)	468	694.90	434	688.76	708.0	0.009	15.0	0.013	5.47	4.3357	91.7
CO-485	444	798.00	445	733.00	3,754.3	0.017	8.0	0.013	4.68	0.5721	83.4
CO-486	445	733.00	443	713.00	2,582.5	0.008	15.0	0.013	5.13	2.8993	69.5
CO-487(1)	446	787.00	466	772.00	1,496.7	0.010	8.0	0.013	1.82	0.0405	29.2
CO-487(2)	466	772.00	447	770.00	511.4	0.004	8.0	0.013	1.99	0.1754	46.2
CO-488	447	770.00	456	673.00	7,808.9	0.012	8.0	0.013	3.62	0.3401	75.5
CO-489	448	718.00	461	703.00	2,042.7	0.007	8.0	0.013	3.16	0.4363	79.4
CO-490	455	758.00	453	728.00	3,435.9	0.009	10.0	0.013	4.21	1.1268	85.6
CO-491	450	750.00	445	733.00	4,077.0	0.004	12.0	0.013	3.18	1.0559	74.1
CO-492	451	688.00	452	648.00	3,066.6	0.013	15.0	0.013	6.17	2.6405	71.8
CO-493(1)	452	648.00	463	638.00	2,294.5	0.004	18.0	0.013	4.32	3.3993	65.6
CO-493(2)	463	638.00	479	628.00	2,274.3	0.004	21.0	0.013	4.59	4.1752	56.9

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-495	453	728.00	Soutwest ETJ LS	723.00	1,858.5	0.003	10.0	0.013	4.46	1.5732	91.6
CO-496	454	728.00	448	718.00	2,028.8	0.005	8.0	0.013	2.62	0.3762	59.8
CO-497	449	791.00	455	758.00	3,220.1	0.010	8.0	0.013	3.90	0.6410	79.9
CO-498	456	673.00	435	635.85	2,699.9	0.014	15.0	0.013	7.02	4.5837	92.6
CO-499	457	673.00	436	628.55	1,440.5	0.031	8.0	0.013	2.04	0.0161	55.3
CO-500	458	688.00	456	673.00	1,524.1	0.010	8.0	0.013	3.49	0.4116	78.2
CO-501	459	610.50	281	607.50	710.1	0.004	12.0	0.013	1.97	0.1737	23.1
CO-502	462	673.00	463	638.00	2,294.2	0.015	8.0	0.013	3.57	0.2464	71.5
CO-503	442	768.00	464	718.00	5,429.8	0.009	15.0	0.013	5.71	3.5921	75.2
CO-504	466	772.00	465	779.00	1,610.0	0.004	8.0	0.013	1.92	0.1349	38.2
CO-505	467	718.00	468	694.90	1,438.6	0.016	8.0	0.013	4.01	0.3496	75.9
CO-506	469	688.00	386	687.25	1,306.5	0.001	12.0	0.013	0.90	0.1361	45.7
CO-507	471	678.00	438	670.33	239.6	0.032	12.0	0.013	3.15	0.0766	57.0
CO-508	470	665.00	342	658.95	1,684.8	0.004	8.0	0.013	1.92	0.1728	55.3
CO-509	472	678.00	176	669.00	1,604.9	0.006	8.0	0.013	2.77	0.6247	100.0
CO-510	474	627.00	473	626.31	61.0	0.011	12.0	0.013	1.69	0.0327	84.9
CO-511	476	649.50	477	648.99	569.4	0.001	8.0	0.013	0.95	0.0832	68.4
CO-512	478	617.00	484	590.00	4,651.4	0.006	10.0	0.013	3.44	0.9312	85.8
CO-513	479	628.00	480	623.00	1,166.6	0.004	21.0	0.013	4.55	4.1752	61.1
CO-514	480	623.00	481	600.00	5,501.6	0.004	21.0	0.013	4.68	5.0182	65.6
CO-515	481	600.00	482	593.00	1,674.0	0.004	21.0	0.013	4.70	5.1182	83.0
CO-516	482	593.00	North ETJ	592.00	133.2	0.008	15.0	0.013	6.57	5.2116	94.7
CO-517	483	600.00	482	593.00	913.7	0.008	8.0	0.013	2.12	0.0934	63.0
CO-519	485	604.00	484	590.00	2,998.4	0.005	12.0	0.013	3.46	1.3029	84.7
CO-520	484	590.00	Denton Creek SS	589.00	171.3	0.006	12.0	0.013	4.40	2.2341	89.7
CO-521	486	619.00	487	615.00	1,826.2	0.002	12.0	0.013	1.78	0.2780	30.9
CO-522	487	615.00	280	606.77	274.1	0.030	12.0	0.013	4.52	0.2780	46.7

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Outfall Table

Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Flow (Total Out) (MGD)
Meadowlands LS	600.74	575.00	0.1849
12th Street LS (Private)	666.05	645.00	0.1223
12th Street LS (Downtown)	637.00	622.00	0.1579
Timberbrooks LS	626.50	606.50	1.5622
Justin Treatment Plant	616.27	596.00	17.6567
Soutwest ETJ LS	730.00	723.00	1.5732
Denton Creek SS	600.00	589.00	2.2341
North ETJ	620.00	592.00	5.2116

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Infrastructure Upgrades in Future Conditions
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
1	710.15	698.09	0.0000	0.1003	0.1003
2	697.00	688.00	0.0000	0.2543	0.2543
3	713.23	700.75	0.0150	0.0334	0.0484
4	715.75	703.96	0.0150	0.0370	0.0519
5	699.00	689.00	0.0000	0.1778	0.1778
6	701.00	692.50	0.0000	0.1566	0.1566
7	701.00	694.00	0.0000	0.1566	0.1566
8	616.65	597.00	0.0000	3.0484	3.0484
9	624.36	600.00	0.0000	0.0240	0.0240
10	615.22	611.22	0.0240	0.0000	0.0240
11	639.83	635.83	0.0036	0.0000	0.0036
12	630.00	626.00	0.0000	0.0072	0.0072
13	640.61	636.61	0.0036	0.0000	0.0036
14	684.46	677.74	0.0150	0.0000	0.0150
15	665.40	656.95	0.0079	1.3296	1.3375
16	690.00	683.00	0.1644	0.0000	0.1644
17	672.00	660.12	0.0273	0.1311	0.1584
18	695.45	688.75	0.0484	0.3271	0.3755
19	700.00	693.50	0.0000	0.3271	0.3271
20	702.00	696.00	0.3271	0.0000	0.3271
21	655.88	641.91	0.0000	1.4756	1.4756
22	671.67	651.05	0.0000	0.5987	0.5987
23	636.98	632.98	0.0018	0.0000	0.0018
24	637.85	633.00	0.0018	0.0000	0.0018
25	643.27	639.27	0.0088	0.0000	0.0088
26	663.00	656.00	0.0132	0.0000	0.0132
27	641.33	637.33	0.0000	0.0089	0.0089
28	642.00	638.00	0.0018	0.0071	0.0089
29	662.29	658.29	0.0071	0.0000	0.0071
30	645.00	641.00	0.0036	0.0000	0.0036
31	653.81	649.81	0.0035	0.0000	0.0035
32	681.00	669.74	0.0158	0.0000	0.0158
33	673.00	662.09	0.0123	0.0000	0.0123
34	630.99	626.99	0.0070	0.0000	0.0070
35	628.00	624.00	0.0088	0.0000	0.0088
36	628.00	624.00	0.0079	0.0000	0.0079
37	625.00	621.00	0.0018	0.0000	0.0018
38	625.00	621.00	0.0026	0.0000	0.0026
39	626.00	622.00	0.0018	0.1170	0.1188
40	645.95	641.95	0.0000	0.0361	0.0361
41	646.00	639.00	0.0088	0.0722	0.0810
42	654.00	647.00	0.0000	0.0167	0.0167
43	639.22	630.25	0.0000	0.2086	0.2086
44	635.02	629.32	0.0000	0.2086	0.2086
45	664.58	651.86	0.0202	0.0651	0.0854
46	671.94	659.46	0.0202	0.0546	0.0748

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Infrastructure Upgrades in Future Conditions
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
47	683.37	676.59	0.0326	0.0000	0.0326
48	683.31	677.33	0.0185	0.0000	0.0185
49	680.62	674.00	0.0035	0.0106	0.0141
50	685.00	681.00	0.0106	0.0000	0.0106
51	679.25	672.00	0.0026	0.0000	0.0026
52	670.26	666.26	0.0018	0.0150	0.0167
53	681.22	677.22	0.0123	0.0000	0.0123
54	682.00	678.00	0.0088	0.0000	0.0088
55	669.37	665.37	0.0026	0.0202	0.0229
56	672.31	668.31	0.0000	0.0114	0.0114
57	685.00	681.00	0.0114	0.0000	0.0114
58	693.97	689.97	0.0018	0.0000	0.0018
59	692.00	683.50	0.0026	0.0194	0.0220
60	693.50	686.00	0.0070	0.0123	0.0194
61	695.00	691.00	0.0106	0.0000	0.0106
62	692.00	688.00	0.0018	0.0000	0.0018
63	695.00	691.00	0.0053	0.0000	0.0053
64	693.29	686.50	0.0097	0.0070	0.0167
65	691.97	684.00	0.0106	0.0167	0.0273
66	675.00	671.00	0.0018	0.0678	0.0695
67	689.00	686.00	0.0176	0.0000	0.0176
68	695.50	691.50	0.0176	0.0000	0.0176
69	676.19	672.22	0.0026	0.0475	0.0502
70	678.00	674.00	0.0097	0.0202	0.0299
71	686.09	682.00	0.0106	0.0097	0.0202
72	700.00	696.00	0.0062	0.0035	0.0097
73	702.00	698.00	0.0035	0.0000	0.0035
74	681.64	672.00	0.0273	0.0000	0.0273
75	684.00	669.00	0.0070	0.0273	0.0343
76	680.71	665.00	0.0062	0.0343	0.0405
77	673.00	662.00	0.0000	0.1100	0.1100
78	673.00	661.50	0.0053	0.1100	0.1153
79	670.00	659.00	0.0070	0.1153	0.1223
80	692.64	688.00	0.0026	0.0000	0.0026
81	697.00	687.00	0.0000	0.3755	0.3755
82	696.89	686.50	0.0053	0.3755	0.3808
83	695.07	686.00	0.0000	0.3834	0.3834
84	692.67	682.00	0.1312	0.3834	0.5146
85	686.04	675.00	0.0141	0.5146	0.5287
86	676.00	669.00	0.0036	0.0000	0.0036
87	629.75	625.84	0.0000	0.1849	0.1849
88	634.05	630.05	0.0000	0.1849	0.1849
89	638.00	634.00	0.0000	0.1849	0.1849
90	639.00	635.00	0.1849	0.0000	0.1849
91	608.57	604.57	0.0035	0.0062	0.0097
92	619.26	615.00	0.0062	0.0000	0.0062

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Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
93	621.16	617.16	0.0132	0.0026	0.0158
94	618.07	614.07	0.0070	0.0185	0.0255
95	596.25	592.25	0.0000	0.1144	0.1144
96	604.14	597.00	0.0000	0.1144	0.1144
97	604.00	600.00	0.0088	0.0959	0.1047
98	604.83	600.83	0.0070	0.0889	0.0959
99	615.32	604.00	0.0035	0.0854	0.0889
100	613.82	607.00	0.0070	0.0625	0.0695
101	613.00	608.00	0.0000	0.0370	0.0370
102	612.36	609.00	0.0000	0.0370	0.0370
103	617.60	615.00	0.0246	0.0123	0.0370
104	623.40	617.00	0.0035	0.0088	0.0123
105	630.59	622.00	0.0088	0.0000	0.0088
106	623.36	619.36	0.0079	0.0106	0.0185
107	618.58	614.58	0.0070	0.0000	0.0070
108	618.00	614.00	0.0018	0.0397	0.0415
109	608.00	604.00	0.0000	0.0705	0.0705
110	612.70	608.70	0.0000	0.0705	0.0705
111	615.01	611.01	0.0097	0.0123	0.0220
112	619.01	615.01	0.0053	0.0070	0.0123
113	632.33	628.33	0.0097	0.0000	0.0097
114	627.31	623.31	0.0044	0.0169	0.0213
115	625.81	621.81	0.0070	0.0213	0.0283
116	622.45	618.45	0.0018	0.0301	0.0318
117	630.32	626.32	0.0000	0.0018	0.0018
118	631.79	627.79	0.0018	0.0000	0.0018
119	636.30	634.00	0.0072	0.0000	0.0072
120	639.00	635.00	0.0054	0.0000	0.0054
121	638.41	635.41	0.0018	0.0000	0.0018
122	638.00	635.00	0.0018	0.0000	0.0018
123	639.37	635.37	0.0090	0.0000	0.0090
124	637.33	634.50	0.0072	0.0000	0.0072
125	639.71	634.00	0.0036	0.0072	0.0108
126	640.00	633.00	0.0000	0.0269	0.0269
127	638.00	632.00	0.0000	0.0305	0.0305
128	638.00	631.00	0.0000	0.0359	0.0359
129	639.00	630.50	0.0197	0.0376	0.0574
130	638.52	629.50	0.0000	0.0574	0.0574
131	638.93	628.00	0.0000	0.0592	0.0592
132	631.15	627.15	0.0000	0.0592	0.0592
133	648.00	644.00	0.0000	0.0361	0.0361
134	657.27	653.27	0.0300	0.0062	0.0361
135	683.62	679.62	0.0062	0.0000	0.0062
136	688.94	684.94	0.0088	0.0000	0.0088
137	684.00	680.00	0.0079	0.0088	0.0167
138	673.70	669.70	0.0053	0.0167	0.0220

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139	665.44	661.44	0.0132	0.0220	0.0352
140	647.95	643.95	0.0018	0.0352	0.0370
141	649.63	645.63	0.0080	0.0176	0.0256
142	655.77	651.77	0.0035	0.0141	0.0176
143	666.41	662.41	0.0079	0.0062	0.0141
144	676.16	672.16	0.0062	0.0000	0.0062
145	650.00	646.00	0.0116	0.0264	0.0380
146	654.80	650.80	0.0062	0.0203	0.0264
147	663.89	659.89	0.0080	0.0123	0.0203
148	684.50	680.50	0.0123	0.0000	0.0123
149	659.42	655.42	0.0125	0.0212	0.0336
150	682.72	678.72	0.0212	0.0000	0.0212
151	679.20	675.20	0.0176	0.0000	0.0176
152	680.00	676.00	0.0097	0.0000	0.0097
153	642.65	631.50	0.0036	1.5070	1.5106
154	667.28	663.28	0.0160	0.0291	0.0450
155	671.41	667.41	0.0000	0.0114	0.0114
156	678.17	674.17	0.0000	0.0114	0.0114
157	678.92	674.92	0.0018	0.0000	0.0018
158	642.00	630.50	0.0036	1.5265	1.5301
159	674.11	670.11	0.0159	0.0000	0.0159
160	639.27	635.27	0.0000	0.0626	0.0626
161	641.92	636.92	0.0000	0.0256	0.0256
162	644.00	634.50	1.3868	0.0380	1.4248
163	643.00	633.00	0.0036	1.4584	1.4620
164	641.74	631.00	0.0000	1.5106	1.5106
165	643.00	630.00	0.0000	1.5301	1.5301
166	641.00	629.50	0.0000	1.5301	1.5301
167	640.87	629.20	0.0018	1.5390	1.5408
168	639.51	628.50	0.0000	1.5610	1.5610
169	669.64	665.64	0.0070	0.0000	0.0070
170	657.00	653.00	0.0018	0.0070	0.0088
171	650.05	646.05	0.0018	0.0123	0.0141
172	643.48	639.48	0.0026	0.0176	0.0203
173	638.23	626.80	0.0000	1.5698	1.5698
174	657.00	645.64	0.0114	0.0000	0.0114
175	689.00	679.19	0.0114	0.0000	0.0114
176	676.00	669.00	0.0009	0.6361	0.6370
177	675.00	668.00	0.0000	1.1657	1.1657
178	675.00	666.00	0.0000	1.1657	1.1657
179	675.00	665.00	0.0053	1.1692	1.1745
180	668.00	661.00	0.0123	1.1745	1.1868
181	657.50	652.00	0.0018	1.1868	1.1886
182	656.00	650.00	0.0044	1.2044	1.2088
183	656.00	649.00	0.0009	1.2212	1.2220
184	655.00	648.00	0.0026	1.2220	1.2247

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185	655.00	645.00	0.0062	1.2379	1.2440
186	650.00	640.10	0.0053	1.2555	1.2608
187	636.81	625.80	0.0036	1.2608	1.2643
188	634.90	625.00	0.0000	2.8341	2.8341
189	630.12	620.00	0.0000	3.0244	3.0244
190	633.16	624.00	0.0054	2.8341	2.8395
191	642.00	630.32	0.0229	0.0000	0.0229
192	639.34	635.34	0.0220	0.0000	0.0220
193	661.00	650.50	0.0510	0.0000	0.0510
194	663.00	656.00	0.0581	0.0000	0.0581
195	652.00	645.00	0.0229	0.1091	0.1320
196	660.00	653.00	0.0370	0.0000	0.0370
197	643.00	631.95	0.0035	0.0370	0.0405
198	641.00	630.48	0.0009	0.1725	0.1734
199	640.00	629.51	0.0000	0.1954	0.1954
200	640.00	629.00	0.0361	0.1954	0.2314
201	640.00	628.50	0.0035	0.2543	0.2578
202	657.86	640.44	0.0000	1.7326	1.7326
203	651.68	639.30	0.0000	1.7344	1.7344
204	635.35	627.53	0.0000	0.2086	0.2086
205	627.03	613.90	0.0000	0.1188	0.1188
206	642.00	630.70	0.0176	0.0000	0.0176
207	637.00	626.60	0.0000	0.2754	0.2754
208	692.00	681.50	0.0044	0.0493	0.0537
209	691.63	687.63	0.0035	0.0000	0.0035
210	692.87	688.87	0.0035	0.0000	0.0035
211	692.00	686.00	0.0053	0.0070	0.0123
212	688.97	680.00	0.0035	0.0660	0.0695
213	682.39	678.39	0.0026	0.0695	0.0722
214	678.00	673.10	0.0035	0.0722	0.0757
215	694.00	690.00	0.0150	0.0000	0.0150
216	684.36	672.00	0.0035	0.0906	0.0942
217	691.85	687.85	0.0176	0.0000	0.0176
218	685.00	670.90	0.0035	0.1118	0.1153
219	693.50	689.42	0.0018	0.0000	0.0018
220	692.65	688.63	0.0070	0.0018	0.0088
221	687.02	683.02	0.0026	0.0088	0.0114
222	680.80	676.80	0.0044	0.0114	0.0158
223	688.76	684.76	0.0167	0.0000	0.0167
224	681.00	669.80	0.0018	0.1320	0.1338
225	678.34	669.14	0.0009	0.1478	0.1487
226	675.00	668.49	0.0009	0.1646	0.1654
227	675.00	668.10	0.0000	0.1654	0.1654
228	667.43	663.43	0.0000	0.1654	0.1654
229	660.66	656.66	0.0000	0.1654	0.1654
230	652.07	648.07	0.0000	0.3814	0.3814

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231	617.00	613.00	0.0000	1.3292	1.3292
232	623.02	619.02	0.0000	1.3292	1.3292
233	634.54	630.54	0.0018	1.2176	1.2194
234	642.74	633.00	0.0018	1.2158	1.2176
235	645.01	634.00	0.0054	1.2104	1.2158
236	646.60	637.50	0.0000	1.2104	1.2104
237	646.27	637.60	0.0000	1.2104	1.2104
238	649.49	645.49	0.0054	0.8236	0.8290
239	654.00	647.00	0.0018	0.8218	0.8236
240	715.79	702.58	0.0202	0.0950	0.1153
241	713.78	701.32	0.0308	0.1153	0.1461
242	707.86	697.69	0.0000	0.2112	0.2112
243	708.74	696.43	0.0255	0.2112	0.2367
244	709.51	694.41	0.0370	0.2367	0.2737
245	697.57	685.41	0.0026	0.2948	0.2974
246	702.25	695.20	0.0211	0.0000	0.0211
247	699.14	684.09	0.0035	0.3344	0.3379
248	693.35	682.77	0.0035	0.3898	0.3934
249	683.16	672.11	0.0018	0.4022	0.4039
250	668.43	660.38	0.0062	0.4171	0.4233
251	690.59	684.04	0.0132	0.0000	0.0132
252	656.00	647.39	0.0000	0.7383	0.7383
253	652.94	646.89	0.0000	0.7383	0.7383
254	628.48	619.55	0.0035	0.8765	0.8800
255	634.67	627.08	0.0158	0.0000	0.0158
256	651.29	640.84	0.0070	0.1100	0.1170
257	679.35	670.87	0.0202	0.0000	0.0202
258	659.57	648.16	0.0044	0.0854	0.0898
259	661.88	652.60	0.0097	0.0387	0.0484
260	685.49	673.84	0.0220	0.0167	0.0387
261	702.55	696.00	0.0167	0.0000	0.0167
262	684.59	677.53	0.0370	0.0000	0.0370
263	666.17	658.54	0.0132	0.0273	0.0405
264	642.59	634.66	0.0035	0.0537	0.0572
265	671.57	665.52	0.0132	0.0000	0.0132
266	638.66	628.22	0.0070	0.0845	0.0915
267	653.78	643.95	0.0079	0.0194	0.0273
268	654.48	647.43	0.0194	0.0000	0.0194
269	653.36	646.31	0.0141	0.0000	0.0141
270	626.58	617.80	0.0106	0.9398	0.9504
271	661.10	652.34	0.0414	0.0000	0.0414
272	627.49	618.69	0.0044	0.9214	0.9258
273	632.66	615.97	0.0114	0.9645	0.9759
274	646.22	640.17	0.0141	0.0000	0.0141
275	626.83	614.51	0.0035	1.0674	1.0710
276	626.86	613.48	0.0158	1.0806	1.0965

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277	623.97	610.89	0.0000	1.1106	1.1106
278	628.22	622.17	0.0141	0.0000	0.0141
279	629.72	623.67	0.0097	0.0000	0.0097
280	624.65	606.77	0.0000	1.5622	1.5622
281	621.00	607.50	0.0000	0.1737	0.1737
282	680.94	673.59	0.0088	0.0000	0.0088
283	713.91	705.91	0.0370	0.0000	0.0370
284	709.71	699.50	0.0651	0.0000	0.0651
285	676.69	665.28	0.0000	0.0238	0.0238
286	684.35	677.74	0.0678	0.0000	0.0678
287	686.89	679.40	0.0088	0.0000	0.0088
288	681.88	675.31	0.0220	0.0000	0.0220
289	674.27	661.54	0.0000	0.0634	0.0634
290	680.15	662.79	0.0088	0.0326	0.0414
291	678.42	664.04	0.0088	0.0238	0.0326
292	657.93	647.93	0.0000	0.8218	0.8218
293	688.12	680.00	0.0202	0.0000	0.0202
294	685.74	675.28	0.0044	0.0317	0.0361
295	686.10	677.87	0.0114	0.0000	0.0114
296	686.35	674.16	0.0035	0.0422	0.0458
297	686.50	679.94	0.0062	0.0000	0.0062
298	687.19	673.27	0.0044	0.0493	0.0537
299	687.72	680.79	0.0035	0.0000	0.0035
300	683.66	672.05	0.0202	0.0669	0.0871
301	689.48	683.51	0.0132	0.0000	0.0132
302	674.98	667.28	0.0000	0.1399	0.1399
303	688.39	683.19	0.0229	0.0000	0.0229
304	690.09	684.74	0.0299	0.0000	0.0299
305	692.12	678.88	0.0000	1.1782	1.1782
306	677.34	663.81	0.0141	1.2284	1.2424
307	673.34	665.85	0.0317	0.0554	0.0871
308	685.55	677.81	0.0194	0.0000	0.0194
309	683.15	668.86	0.0361	0.0000	0.0361
310	672.84	665.47	0.0088	0.0000	0.0088
311	673.46	666.46	0.0554	0.0000	0.0554
312	652.00	645.00	0.0361	0.0000	0.0361
313	655.00	649.00	0.0000	0.2160	0.2160
314	660.00	656.00	0.0000	0.1620	0.1620
315	665.00	658.50	0.0000	0.1080	0.1080
316	671.00	664.00	0.0540	0.0000	0.0540
317	677.00	670.00	0.0540	0.0000	0.0540
318	670.00	663.00	0.0540	0.0000	0.0540
319	673.00	667.00	0.0540	0.0000	0.0540
320	659.72	648.58	0.0070	1.4686	1.4756
321	652.90	639.66	0.0000	1.7326	1.7326
322	661.52	651.66	0.0000	0.1399	0.1399

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323	642.14	619.50	0.0000	12.6763	12.6763
324	644.75	634.24	0.0484	0.0748	0.1232
325	669.84	662.79	0.0273	0.0000	0.0273
326	631.39	620.64	0.0053	0.1170	0.1223
327	667.06	660.05	0.0000	0.3150	0.3150
328	687.80	678.10	0.0079	0.0528	0.0607
329	703.09	695.12	0.0185	0.0343	0.0528
330	707.36	699.70	0.0158	0.0185	0.0343
331	712.25	705.20	0.0079	0.0106	0.0185
332	716.88	709.51	0.0106	0.0000	0.0106
333	715.72	708.81	0.0519	0.0000	0.0519
334	665.00	656.25	0.0000	0.3150	0.3150
335	663.00	657.00	0.0000	0.3150	0.3150
336	697.70	677.25	0.0000	0.2543	0.2543
337	714.42	706.45	0.0950	0.0000	0.0950
338	701.95	693.00	0.0220	0.0000	0.0220
339	698.12	683.00	0.0000	0.4145	0.4145
340	699.36	688.00	0.0000	0.3925	0.3925
341	692.05	679.33	0.0000	1.1782	1.1782
342	679.00	658.95	0.0600	0.5387	0.5987
343	676.08	670.00	0.0238	0.0000	0.0238
344	676.08	670.00	0.0220	0.0000	0.0220
345	635.35	614.98	0.0000	12.8849	12.8849
346	700.78	689.42	0.0000	0.3925	0.3925
347	710.14	698.78	0.0334	0.0000	0.0334
348	704.15	692.79	0.0097	0.3494	0.3590
349	709.01	697.65	0.0079	0.0651	0.0730
350	713.82	702.37	0.0000	0.0370	0.0370
351	719.97	708.52	0.0370	0.0000	0.0370
352	717.53	706.17	0.0282	0.0000	0.0282
353	710.67	694.00	0.0202	0.2561	0.2763
354	666.25	650.64	0.0062	1.3824	1.3885
355	675.60	665.60	0.0449	0.0000	0.0449
356	674.28	667.08	0.0801	0.0000	0.0801
357	676.69	669.69	0.0554	0.0000	0.0554
358	656.32	641.44	0.0070	1.5311	1.5381
359	660.14	651.40	0.0132	0.1813	0.1945
360	672.00	665.00	0.0229	0.0000	0.0229
361	685.85	675.46	0.0282	1.1914	1.2196
362	693.00	677.92	0.0132	1.1782	1.1914
363	722.00	715.00	0.0211	0.0000	0.0211
364	719.00	712.00	0.0167	0.0598	0.0766
365	721.00	714.00	0.0378	0.0220	0.0598
366	722.00	715.00	0.0026	0.0194	0.0220
367	733.00	726.00	0.0194	0.0000	0.0194
368	707.00	700.00	0.0088	0.0440	0.0528

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369	725.00	718.00	0.0185	0.0000	0.0185
370	720.00	713.00	0.0255	0.0000	0.0255
371	713.00	700.00	0.0141	0.0898	0.1038
372	725.00	711.50	0.0035	0.0352	0.0387
373	733.00	723.00	0.0229	0.0000	0.0229
374	720.00	713.00	0.0123	0.0000	0.0123
375	735.00	728.00	0.0440	0.0000	0.0440
376	707.53	696.53	0.0000	0.1734	0.1734
377	713.51	706.51	0.0000	0.0537	0.0537
378	720.85	713.85	0.0202	0.0079	0.0282
379	721.15	714.15	0.0255	0.0000	0.0255
380	726.51	719.51	0.0079	0.0000	0.0079
381	710.66	694.75	0.0000	0.2561	0.2561
382	713.18	703.00	0.0000	0.0405	0.0405
383	726.54	719.54	0.0299	0.0000	0.0299
384	726.84	719.84	0.0290	0.0000	0.0290
385	700.22	685.81	0.0774	0.6863	0.7637
386	699.66	687.25	0.0000	0.6863	0.6863
387	698.53	688.61	0.0543	0.4959	0.5502
388	703.57	693.02	0.0000	0.4959	0.4959
389	716.39	710.00	0.0308	0.0000	0.0308
390	699.69	692.34	0.0000	0.4959	0.4959
391	704.97	695.51	0.0273	0.4378	0.4651
392	706.84	696.28	0.0000	0.4378	0.4378
393	708.51	696.97	0.0000	0.4184	0.4184
394	711.52	697.75	0.0000	0.3991	0.3991
395	718.37	700.29	0.0000	0.1461	0.1461
396	714.19	702.14	0.0114	0.0651	0.0766
397	715.00	702.95	0.0000	0.0651	0.0651
398	741.00	731.00	0.0238	0.0000	0.0238
399	716.82	707.85	0.0000	0.0695	0.0695
400	718.39	709.00	0.0695	0.0000	0.0695
401	730.00	723.00	0.0000	0.2424	0.2424
402	748.00	741.00	0.0466	0.0620	0.1087
403	751.00	744.00	0.0242	0.0378	0.0620
404	762.00	755.00	0.0194	0.0000	0.0194
405	760.00	753.00	0.0185	0.0000	0.0185
406	739.00	732.00	0.0282	0.1056	0.1338
407	744.00	736.00	0.0458	0.0598	0.1056
408	744.00	737.00	0.0000	0.0598	0.0598
409	764.00	757.00	0.0343	0.0000	0.0343
410	762.00	755.00	0.0255	0.0000	0.0255
411	748.00	740.00	0.0414	0.0000	0.0414
412	650.00	638.43	0.0000	0.3814	0.3814
413	715.92	711.00	0.0106	0.0000	0.0106
414	712.20	705.00	0.0194	0.0000	0.0194

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415	709.79	702.50	0.0194	0.0000	0.0194
416	722.47	715.47	0.0370	0.0000	0.0370
417	719.02	712.02	0.0334	0.0000	0.0334
418	717.45	708.77	0.0132	0.0290	0.0422
419	720.47	707.83	0.0106	0.0299	0.0405
420	716.20	703.53	0.0194	0.0537	0.0730
421	710.00	703.00	0.0070	0.0440	0.0510
422	647.57	639.60	0.0018	0.0000	0.0018
423	650.00	643.00	0.1080	0.0000	0.1080
424	629.82	625.81	0.0018	1.3274	1.3292
425	625.31	609.57	0.0000	13.0037	13.0037
426	621.61	606.67	0.0000	13.2791	13.2791
427	619.19	605.83	0.0000	13.2791	13.2791
428	617.08	604.98	0.0000	13.2791	13.2791
429	617.43	604.14	0.0000	13.2791	13.2791
430	614.23	603.75	0.0000	14.6083	14.6083
431	613.00	603.57	0.0000	14.6083	14.6083
432	611.00	603.16	0.0000	14.6083	14.6083
433	611.23	602.41	0.0000	14.6083	14.6083
434	704.25	688.76	0.2030	4.3357	4.5387
435	657.20	635.85	0.1831	10.7100	10.8931
436	649.22	628.55	0.0000	10.9092	10.9092
437	642.58	627.00	0.0000	10.9092	10.9092
438	688.44	670.33	0.0000	5.2358	5.2358
439	696.60	682.54	0.0000	0.6204	0.6204
440	698.97	686.12	0.6204	0.0000	0.6204
441	691.08	675.45	0.0000	0.6204	0.6204
442	775.00	768.00	3.5921	0.0000	3.5921
443	720.00	713.00	0.4692	2.8993	3.3686
444	805.00	798.00	0.5721	0.0000	0.5721
445	740.00	733.00	1.2714	1.6280	2.8993
446	794.00	787.00	0.0405	0.0000	0.0405
447	777.00	770.00	0.1646	0.1754	0.3401
448	725.00	718.00	0.0601	0.3762	0.4363
449	796.00	791.00	0.6410	0.0000	0.6410
450	757.00	750.00	1.0559	0.0000	1.0559
451	695.00	688.00	2.6405	0.0000	2.6405
452	665.00	648.00	0.7588	2.6405	3.3993
453	735.00	728.00	0.4464	1.1268	1.5732
454	735.00	728.00	0.3762	0.0000	0.3762
455	765.00	758.00	0.4858	0.6410	1.1268
456	680.00	673.00	0.2399	4.3438	4.5837
457	680.00	673.00	0.0161	0.0000	0.0161
458	695.00	688.00	0.4116	0.0000	0.4116
459	615.00	610.50	0.1737	0.0000	0.1737
460	682.86	664.17	0.8906	5.2358	6.1263

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461	710.00	703.00	0.1813	3.8049	3.9861
462	680.00	673.00	0.2464	0.0000	0.2464
463	651.00	638.00	0.5295	3.6458	4.1752
464	725.00	718.00	0.0000	3.5921	3.5921
465	785.00	779.00	0.1349	0.0000	0.1349
466	782.00	772.00	0.0000	0.1754	0.1754
467	725.00	718.00	0.3496	0.0000	0.3496
468	706.73	694.90	0.0000	4.3357	4.3357
469	695.00	688.00	0.1361	0.0000	0.1361
470	670.00	665.00	0.1728	0.0000	0.1728
471	685.00	678.00	0.0766	0.0000	0.0766
472	685.00	678.00	0.6247	0.0000	0.6247
473	642.54	626.31	0.0000	10.9419	10.9419
474	651.00	627.00	0.0327	0.0000	0.0327
475	680.00	673.00	0.2015	0.1644	0.3659
476	655.00	649.50	0.0832	0.0000	0.0832
477	662.59	648.99	0.0000	0.6819	0.6819
478	624.00	617.00	0.9312	0.0000	0.9312
479	645.00	628.00	0.0000	4.1752	4.1752
480	645.00	623.00	0.8430	4.1752	5.0182
481	625.00	600.00	0.1001	5.0182	5.1182
482	620.00	593.00	0.0000	5.2116	5.2116
483	619.00	600.00	0.0934	0.0000	0.0934
484	600.00	590.00	0.0000	2.2341	2.2341
485	611.00	604.00	1.3029	0.0000	1.3029
486	626.00	619.00	0.2780	0.0000	0.2780
487	622.00	615.00	0.0000	0.2780	0.2780
488	621.06	600.07	0.0000	0.0000	0.0000
489	668.34	664.34	0.0000	0.0000	0.0000
491	620.67	607.00	0.0000	0.0000	0.0000
492	612.00	604.00	0.0000	0.0000	0.0000
493	617.21	603.50	0.0000	0.0000	0.0000
494	621.75	602.00	0.0000	0.0000	0.0000
495	615.51	603.00	0.0000	0.0000	0.0000
496	729.11	722.11	0.0000	0.0000	0.0000
497	655.41	644.22	0.0000	0.0000	0.0000
498	660.78	650.78	0.0000	0.0000	0.0000
499	656.22	645.50	0.0000	0.0000	0.0000

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CO-1	240	702.58	241	701.32	291.4	0.004	8.0	0.013	1.84	0.1153	34.4
CO-2	241	701.32	242	697.69	852.2	0.004	8.0	0.013	1.95	0.1461	40.6
CO-3	242	697.69	243	696.43	290.7	0.004	8.0	0.013	2.17	0.2112	45.1
CO-4	243	696.43	244	694.41	398.9	0.005	8.0	0.013	2.37	0.2367	45.8
CO-5	239	647.00	238	645.49	401.5	0.004	10.0	0.013	2.80	0.8236	69.2
CO-6	244	694.41	245	685.41	1,382.5	0.007	8.0	0.013	2.70	0.2737	47.6
CO-7	238	645.49	237	637.60	411.9	0.019	10.0	0.013	5.33	0.8290	65.4
CO-8	245	685.41	246	695.20	1,204.2	0.008	8.0	0.013	1.40	0.0211	30.7
CO-9	237	637.60	236	637.50	8.5	0.012	12.0	0.013	4.88	1.2104	54.7
CO-10	245	685.41	247	684.09	317.3	0.004	10.0	0.013	2.31	0.2974	40.5
CO-11	236	637.50	235	634.00	466.8	0.007	12.0	0.013	4.12	1.2104	66.5
CO-12	247	684.09	248	682.77	308.0	0.004	10.0	0.013	2.42	0.3379	41.4
CO-13	235	634.00	234	633.00	295.1	0.003	12.0	0.013	2.99	1.2158	66.9
CO-14	248	682.77	249	672.11	314.3	0.034	10.0	0.013	5.33	0.3934	41.4
CO-15	234	633.00	233	630.54	378.4	0.007	12.0	0.013	3.90	1.2176	58.8
CO-16	249	672.11	250	660.38	321.6	0.036	10.0	0.013	5.51	0.4039	42.2
CO-17	250	660.38	251	684.04	730.2	0.032	8.0	0.013	1.95	0.0132	31.5
CO-18	233	630.54	424	625.81	140.6	0.034	12.0	0.013	7.19	1.2194	59.9
CO-19	424	625.81	232	619.02	202.2	0.034	12.0	0.013	7.36	1.3292	49.9
CO-20	232	619.02	231	613.00	312.8	0.019	12.0	0.013	6.00	1.3292	53.1
CO-21	250	660.38	252	647.39	332.3	0.039	10.0	0.013	5.73	0.4233	59.5
CO-22	231	613.00	430	605.89	258.6	0.027	12.0	0.013	6.84	1.3292	51.0
CO-23	252	647.39	253	646.89	158.8	0.003	10.0	0.013	2.56	0.7383	66.7
CO-24	253	646.89	254	619.55	3,440.3	0.008	10.0	0.013	3.72	0.7383	65.9
CO-25	230	648.07	412	638.43	266.7	0.036	10.0	0.013	5.40	0.3814	45.8
CO-26	412	638.43	237	637.60	309.3	0.003	10.0	0.013	2.10	0.3814	60.6
CO-27	229	656.66	230	648.07	315.5	0.027	10.0	0.013	3.83	0.1654	33.4
CO-28	255	627.08	254	619.55	590.6	0.013	8.0	0.013	1.50	0.0158	52.0
CO-29	228	663.43	229	656.66	460.3	0.015	10.0	0.013	3.08	0.1654	23.6
CO-30	256	640.84	326	620.64	295.6	0.068	8.0	0.013	4.91	0.1170	31.2

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CO-31	227	668.10	228	663.43	339.0	0.014	10.0	0.013	3.01	0.1654	23.8
CO-32	257	670.87	256	640.84	980.6	0.031	8.0	0.013	2.20	0.0202	20.6
CO-33	226	668.49	227	668.10	100.5	0.004	10.0	0.013	1.92	0.1654	27.8
CO-34	258	648.16	256	640.84	303.2	0.024	8.0	0.013	3.14	0.0898	27.4
CO-35	225	669.14	226	668.49	136.6	0.005	8.0	0.013	2.04	0.1487	36.3
CO-36	259	652.60	258	648.16	309.8	0.014	8.0	0.013	2.18	0.0484	22.1
CO-37	224	669.80	225	669.14	134.9	0.005	8.0	0.013	2.00	0.1338	34.8
CO-38	260	673.84	259	652.60	1,053.0	0.020	8.0	0.013	2.30	0.0387	17.6
CO-39	223	684.76	224	669.80	689.2	0.022	6.0	0.013	1.91	0.0167	30.3
CO-40	260	673.84	261	696.00	818.6	0.027	8.0	0.013	1.99	0.0167	13.7
CO-41	262	677.53	258	648.16	1,100.3	0.027	8.0	0.013	2.50	0.0370	20.9
CO-42	222	676.80	226	668.49	423.1	0.020	8.0	0.013	1.75	0.0158	23.6
CO-43	263	658.54	264	634.66	516.9	0.046	8.0	0.013	3.12	0.0405	18.7
CO-44	221	683.02	222	676.80	213.6	0.029	8.0	0.013	1.80	0.0114	9.8
CO-45	265	665.52	264	634.66	750.4	0.041	8.0	0.013	2.12	0.0132	15.0
CO-46	220	688.63	221	683.02	487.0	0.012	8.0	0.013	1.20	0.0088	8.4
CO-47	266	628.22	264	634.66	293.0	0.022	8.0	0.013	2.66	0.0572	23.1
CO-48	219	689.42	220	688.63	193.8	0.004	6.0	0.013	0.54	0.0018	8.3
CO-49	267	643.95	266	628.22	481.0	0.033	8.0	0.013	2.44	0.0273	19.9
CO-50	218	670.90	224	669.80	266.6	0.004	8.0	0.013	1.81	0.1153	33.1
CO-51	268	647.43	267	643.95	694.3	0.005	8.0	0.013	1.15	0.0194	13.4
CO-52	217	687.85	218	670.90	698.4	0.024	6.0	0.013	2.02	0.0176	29.8
CO-53	269	646.31	270	617.80	581.9	0.049	8.0	0.013	2.30	0.0141	52.4
CO-54	272	618.69	271	652.34	1,548.7	0.022	8.0	0.013	2.41	0.0414	57.1
CO-55	216	672.00	218	670.90	232.2	0.005	8.0	0.013	1.79	0.0942	30.5
CO-56	254	619.55	272	618.69	296.6	0.003	12.0	0.013	2.65	0.8800	63.4
CO-57	215	690.00	216	672.00	860.3	0.021	8.0	0.013	1.76	0.0150	19.3
CO-58	272	618.69	270	617.80	309.2	0.003	12.0	0.013	2.67	0.9258	63.9
CO-59	270	617.80	273	615.97	565.7	0.003	12.0	0.013	2.81	0.9504	64.6
CO-60	214	673.10	216	672.00	245.5	0.004	8.0	0.013	1.65	0.0757	27.0

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CO-61	274	640.17	273	615.97	796.6	0.030	8.0	0.013	1.95	0.0141	54.5
CO-62	213	678.39	214	673.10	185.1	0.029	8.0	0.013	3.13	0.0722	24.3
CO-63	273	615.97	275	614.51	486.5	0.003	12.0	0.013	2.74	0.9759	66.3
CO-64	212	680.00	213	678.39	304.2	0.005	8.0	0.013	1.71	0.0695	23.2
CO-65	266	628.22	275	614.51	553.2	0.025	8.0	0.013	3.19	0.0915	62.9
CO-66	211	686.00	212	680.00	267.7	0.022	8.0	0.013	1.68	0.0123	16.5
CO-67	275	614.51	276	613.48	291.9	0.004	12.0	0.013	2.98	1.0710	66.8
CO-68	210	688.87	211	686.00	157.2	0.018	6.0	0.013	1.12	0.0035	9.8
CO-69	276	613.48	277	610.89	710.4	0.004	12.0	0.013	3.04	1.0965	61.3
CO-70	209	687.63	211	686.00	83.5	0.020	8.0	0.013	1.09	0.0035	7.1
CO-71	278	622.17	277	610.89	673.5	0.017	8.0	0.013	1.60	0.0141	46.8
CO-72	208	681.50	212	680.00	253.8	0.006	8.0	0.013	1.65	0.0537	21.9
CO-73	279	623.67	276	613.48	406.8	0.025	8.0	0.013	1.62	0.0097	54.1
CO-74	277	610.89	280	606.77	365.3	0.011	12.0	0.013	4.70	1.1106	61.0
CO-76	281	607.50	280	606.77	179.1	0.004	12.0	0.013	1.95	0.1737	44.8
CO-77	282	673.59	249	672.11	326.8	0.005	8.0	0.013	0.87	0.0088	30.5
CO-78	283	705.91	247	684.09	1,330.0	0.016	8.0	0.013	2.11	0.0370	34.2
CO-81	207	626.60	426	612.04	307.7	0.047	8.0	0.013	5.53	0.2754	36.5
CO-82	284	699.50	242	697.69	287.2	0.006	8.0	0.013	1.78	0.0651	33.3
CO-83	206	630.70	207	626.60	911.8	0.004	8.0	0.013	1.08	0.0176	29.1
CO-85	345	614.98	425	609.57	1,421.9	0.004	30.0	0.013	5.71	12.8849	63.9
CO-86	289	661.54	17	660.12	285.9	0.005	8.0	0.013	1.62	0.0634	28.6
CO-87	204	627.53	345	626.00	36.4	0.042	8.0	0.013	4.90	0.2086	32.0
CO-88	286	677.74	17	660.12	2,621.1	0.007	8.0	0.013	1.85	0.0678	28.2
CO-89	202	640.44	321	639.66	250.2	0.003	15.0	0.013	3.22	1.7326	63.2
CO-90	201	628.50	207	626.60	240.3	0.008	8.0	0.013	2.85	0.2578	44.9
CO-91	285	665.28	287	679.40	594.4	0.024	8.0	0.013	1.55	0.0088	11.3
CO-92	200	629.00	201	628.50	107.3	0.005	8.0	0.013	2.28	0.2314	45.1
CO-93	288	675.31	289	661.54	1,167.4	0.012	8.0	0.013	1.61	0.0220	17.7
CO-94	199	629.51	200	629.00	270.2	0.002	8.0	0.013	1.56	0.1954	50.2

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CO-95	289	661.54	290	662.79	297.0	0.004	8.0	0.013	1.35	0.0414	21.1
CO-96	198	630.48	199	629.51	271.9	0.004	8.0	0.013	1.92	0.1734	48.3
CO-97	197	631.95	198	630.48	272.7	0.005	8.0	0.013	1.47	0.0405	30.1
CO-98	285	665.28	291	664.04	295.7	0.004	8.0	0.013	1.15	0.0238	15.9
CO-99	196	653.00	197	631.95	1,538.4	0.014	8.0	0.013	1.98	0.0370	17.1
CO-100	291	664.04	290	662.79	284.2	0.004	8.0	0.013	1.28	0.0326	18.2
CO-101	292	647.93	239	647.00	246.9	0.004	10.0	0.013	2.80	0.8218	77.6
CO-102	293	680.00	294	675.28	929.8	0.005	8.0	0.013	1.17	0.0202	15.7
CO-103	295	677.87	294	675.28	357.4	0.007	8.0	0.013	1.12	0.0114	13.7
CO-104	294	675.28	296	674.16	282.6	0.004	8.0	0.013	1.27	0.0361	18.9
CO-105	297	679.94	296	679.00	235.5	0.004	8.0	0.013	0.75	0.0062	7.2
CO-106	195	645.00	198	630.48	884.8	0.016	8.0	0.013	3.07	0.1320	36.7
CO-107	296	674.16	298	673.27	174.1	0.005	8.0	0.013	1.49	0.0458	20.6
CO-108	299	680.79	298	680.00	199.7	0.004	8.0	0.013	0.63	0.0035	5.5
CO-109	194	656.00	195	645.00	692.6	0.016	8.0	0.013	2.39	0.0581	25.8
CO-110	298	673.27	300	672.05	278.6	0.004	8.0	0.013	1.48	0.0537	23.5
CO-111	193	650.50	195	645.00	914.5	0.006	8.0	0.013	1.63	0.0510	25.4
CO-112	301	683.51	300	672.05	815.0	0.014	8.0	0.013	1.47	0.0132	17.4
CO-113	300	672.05	302	667.28	751.5	0.006	8.0	0.013	1.94	0.0871	28.7
CO-114	302	667.28	303	683.19	672.1	0.024	8.0	0.013	2.07	0.0229	22.4
CO-115	192	635.34	199	629.51	829.0	0.007	8.0	0.013	1.35	0.0220	33.5
CO-116	302	667.28	304	684.74	1,027.1	0.017	8.0	0.013	2.01	0.0299	23.3
CO-117	302	667.28	322	651.66	966.7	0.016	8.0	0.013	3.11	0.1399	28.7
CO-118	191	630.32	201	628.50	230.8	0.008	8.0	0.013	1.42	0.0229	28.4
CO-119	305	678.88	362	677.92	177.8	0.005	12.0	0.013	3.60	1.1782	62.0
CO-120	361	675.46	306	663.81	1,437.1	0.008	12.0	0.013	4.25	1.2196	58.8
CO-121	190	624.00	189	620.00	256.5	0.016	18.0	0.013	6.69	2.8395	54.5
CO-122	306	663.81	15	656.95	666.8	0.010	12.0	0.013	4.67	1.2424	60.3
CO-123	307	665.85	15	656.95	1,427.9	0.006	8.0	0.013	1.93	0.0871	58.8
CO-124	308	677.81	307	665.85	849.6	0.014	8.0	0.013	1.65	0.0194	18.6

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CO-125	188	625.00	190	624.00	149.2	0.007	18.0	0.013	4.89	2.8341	53.6
CO-126	309	668.86	307	665.85	582.4	0.005	8.0	0.013	1.40	0.0361	21.3
CO-127	187	625.80	188	625.00	137.1	0.006	12.0	0.013	3.77	1.2643	71.6
CO-128	186	640.10	187	625.80	303.8	0.047	12.0	0.013	8.20	1.2608	61.2
CO-129	185	645.00	186	640.10	598.4	0.008	12.0	0.013	4.29	1.2440	59.4
CO-130	310	665.47	306	663.81	543.5	0.003	8.0	0.013	0.76	0.0088	49.3
CO-131	184	648.00	185	645.00	217.1	0.014	12.0	0.013	5.20	1.2247	58.9
CO-132	183	649.00	184	648.00	189.0	0.005	12.0	0.013	3.60	1.2220	61.0
CO-133	182	650.00	183	649.00	389.0	0.003	12.0	0.013	2.61	1.2088	74.4
CO-134	311	666.46	41	639.00	1,530.1	0.018	8.0	0.013	2.46	0.0554	22.1
CO-135	181	652.00	182	650.00	287.4	0.007	12.0	0.013	3.98	1.1886	71.5
CO-136	180	661.00	181	652.00	687.9	0.013	10.0	0.013	5.02	1.1868	68.3
CO-137	179	665.00	180	661.00	388.6	0.010	10.0	0.013	4.55	1.1745	72.8
CO-138	178	666.00	179	665.00	38.0	0.026	10.0	0.013	6.54	1.1657	72.5
CO-139	177	668.00	178	666.00	336.3	0.006	10.0	0.013	3.48	1.1657	81.3
CO-140	176	669.00	177	668.00	368.4	0.003	10.0	0.013	2.36	0.6370	81.0
CO-141	230	648.07	313	649.00	21.7	0.043	8.0	0.013	4.98	0.2160	45.4
CO-142	314	656.00	313	649.00	339.8	0.021	8.0	0.013	3.54	0.1620	37.4
CO-143	315	658.50	314	656.00	143.4	0.017	8.0	0.013	2.96	0.1080	31.4
CO-144	175	679.19	176	669.00	814.3	0.013	8.0	0.013	1.36	0.0114	49.3
CO-145	316	664.00	315	658.50	272.6	0.020	8.0	0.013	2.54	0.0540	23.9
CO-146	174	645.64	186	640.10	667.4	0.008	6.0	0.013	1.22	0.0114	56.4
CO-147	317	670.00	315	658.50	404.5	0.028	8.0	0.013	2.86	0.0540	23.9
CO-148	173	626.80	188	625.00	365.3	0.005	14.0	0.013	3.75	1.5698	63.6
CO-149	318	663.00	314	656.00	396.1	0.018	8.0	0.013	2.43	0.0540	27.2
CO-150	168	628.50	173	626.80	459.3	0.004	14.0	0.013	3.35	1.5610	61.2
CO-151	313	649.00	319	667.00	517.4	0.035	8.0	0.013	3.08	0.0540	30.0
CO-152	172	639.48	168	628.50	391.1	0.028	6.0	0.013	2.21	0.0203	58.6
CO-154	171	646.05	172	639.48	354.8	0.019	6.0	0.013	1.71	0.0141	15.8
CO-155	354	650.64	320	648.58	322.7	0.006	12.0	0.013	3.98	1.3885	64.8

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CO-156	15	656.95	354	650.64	360.7	0.017	12.0	0.013	5.81	1.3375	63.2
CO-157	170	653.00	171	646.05	238.8	0.029	6.0	0.013	1.75	0.0088	12.8
CO-158	321	639.66	203	639.30	105.3	0.003	15.0	0.013	3.34	1.7326	57.4
CO-159	169	665.64	170	653.00	652.8	0.019	6.0	0.013	1.42	0.0070	10.7
CO-160	292	647.93	322	651.66	394.9	0.009	10.0	0.013	2.51	0.1399	50.8
CO-161	203	639.30	323	630.00	377.8	0.025	15.0	0.013	6.98	1.7344	43.9
CO-162	167	629.20	168	628.50	367.2	0.002	14.0	0.013	2.50	1.5408	72.8
CO-163	323	619.50	345	614.98	1,296.4	0.003	30.0	0.013	5.49	12.6763	67.6
CO-164	166	629.50	167	629.20	167.0	0.002	14.0	0.013	2.42	1.5301	82.6
CO-165	43	630.25	324	634.24	897.8	0.004	8.0	0.013	1.89	0.1232	37.9
CO-166	165	630.00	166	629.50	153.0	0.003	14.0	0.013	3.17	1.5301	75.9
CO-167	55	665.37	45	651.86	315.9	0.043	8.0	0.013	2.56	0.0229	18.8
CO-168	46	659.46	324	634.24	889.1	0.028	8.0	0.013	3.16	0.0748	28.2
CO-169	325	662.79	263	658.54	1,005.0	0.004	8.0	0.013	1.20	0.0273	16.4
CO-170	162	634.50	163	633.00	334.4	0.004	14.0	0.013	3.54	1.4248	57.0
CO-171	326	620.64	254	619.55	251.9	0.004	8.0	0.013	1.87	0.1223	63.3
CO-172	252	647.39	334	656.25	262.4	0.034	8.0	0.013	5.09	0.3150	72.2
CO-173	161	636.92	160	635.27	354.0	0.005	8.0	0.013	1.22	0.0256	18.1
CO-174	327	660.05	328	678.10	417.1	0.043	8.0	0.013	3.44	0.0607	34.9
CO-175	158	630.50	165	630.00	200.7	0.002	14.0	0.013	2.83	1.5301	70.4
CO-176	328	678.10	329	695.12	949.3	0.018	8.0	0.013	2.42	0.0528	20.2
CO-177	164	631.00	158	630.50	187.5	0.003	14.0	0.013	2.91	1.5106	71.5
CO-178	329	695.12	330	699.70	756.9	0.006	8.0	0.013	1.45	0.0343	17.8
CO-179	159	670.11	158	630.50	1,038.3	0.038	8.0	0.013	2.18	0.0159	55.3
CO-180	330	699.70	331	705.20	374.2	0.015	8.0	0.013	1.65	0.0185	13.8
CO-181	157	674.92	156	674.17	193.2	0.004	6.0	0.013	0.53	0.0018	9.6
CO-182	331	705.20	332	709.51	705.8	0.006	8.0	0.013	1.03	0.0106	10.3
CO-183	156	674.17	155	667.41	335.7	0.020	6.0	0.013	1.66	0.0114	11.6
CO-184	333	708.81	248	682.77	2,225.1	0.012	8.0	0.013	2.08	0.0519	35.4
CO-185	155	667.41	154	663.28	201.3	0.021	6.0	0.013	1.67	0.0114	18.4

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CO-186	335	657.00	334	656.25	142.1	0.005	8.0	0.013	2.58	0.3150	51.1
CO-187	153	631.50	164	631.00	162.2	0.003	14.0	0.013	3.09	1.5106	68.7
CO-188	335	657.00	327	660.05	174.6	0.017	8.0	0.013	4.02	0.3150	51.1
CO-189	163	633.00	153	631.50	333.0	0.005	14.0	0.013	3.56	1.4620	62.1
CO-190	336	677.25	327	660.05	2,121.0	0.008	8.0	0.013	2.87	0.2543	46.4
CO-191	154	663.28	153	631.50	943.1	0.034	8.0	0.013	2.89	0.0450	59.0
CO-192	152	676.00	156	674.17	322.2	0.006	6.0	0.013	1.01	0.0097	12.9
CO-193	338	693.00	339	683.00	782.3	0.013	8.0	0.013	1.65	0.0220	34.5
CO-194	151	675.20	154	663.28	1,070.0	0.011	8.0	0.013	1.48	0.0176	14.6
CO-195	339	683.00	340	688.00	493.5	0.010	8.0	0.013	3.48	0.3925	55.8
CO-196	150	678.72	149	655.42	1,104.9	0.021	6.0	0.013	2.02	0.0212	20.0
CO-197	339	683.00	341	679.33	137.1	0.027	8.0	0.013	5.06	0.4145	78.3
CO-198	149	655.42	163	633.00	909.9	0.025	6.0	0.013	2.46	0.0336	61.2
CO-199	341	679.33	305	678.88	140.1	0.003	12.0	0.013	2.91	1.1782	67.7
CO-200	22	651.05	342	658.95	617.7	0.013	8.0	0.013	4.21	0.5987	76.6
CO-201	41	639.00	39	622.00	438.3	0.039	8.0	0.013	3.61	0.0810	26.9
CO-202	148	680.50	147	659.89	736.3	0.028	6.0	0.013	1.90	0.0123	15.3
CO-203	147	659.89	146	650.80	495.2	0.018	6.0	0.013	1.91	0.0203	18.5
CO-204	146	650.80	145	646.00	329.3	0.015	6.0	0.013	1.90	0.0264	21.8
CO-205	145	646.00	162	634.50	453.5	0.025	6.0	0.013	2.57	0.0380	61.9
CO-206	346	689.42	340	688.00	142.3	0.010	8.0	0.013	3.46	0.3925	52.6
CO-207	347	698.78	346	689.42	937.7	0.010	8.0	0.013	1.72	0.0334	35.2
CO-208	144	672.16	143	662.41	374.8	0.026	6.0	0.013	1.49	0.0062	11.9
CO-209	348	692.79	346	689.42	337.1	0.010	8.0	0.013	3.39	0.3590	53.7
CO-210	143	662.41	142	651.77	460.6	0.023	6.0	0.013	1.85	0.0141	15.2
CO-211	349	697.65	348	692.79	485.6	0.010	8.0	0.013	2.17	0.0730	37.8
CO-212	142	651.77	141	645.63	435.8	0.014	6.0	0.013	1.66	0.0176	17.7
CO-213	350	702.37	349	697.65	472.0	0.010	8.0	0.013	1.77	0.0370	19.6
CO-214	141	645.63	161	636.92	486.9	0.018	6.0	0.013	2.02	0.0256	19.7
CO-215	351	708.52	350	702.37	615.0	0.010	8.0	0.013	1.77	0.0370	15.5

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CO-216	140	643.95	160	635.27	617.3	0.014	6.0	0.013	2.07	0.0370	25.9
CO-217	352	706.17	349	697.65	867.6	0.010	8.0	0.013	1.63	0.0282	18.6
CO-218	139	661.44	140	643.95	789.8	0.022	6.0	0.013	2.40	0.0352	23.2
CO-219	138	669.70	139	661.44	345.6	0.024	6.0	0.013	2.14	0.0220	20.5
CO-220	137	680.00	138	669.70	508.1	0.020	6.0	0.013	1.87	0.0167	16.8
CO-221	353	694.00	348	692.79	652.5	0.002	8.0	0.013	1.66	0.2763	60.8
CO-222	136	684.94	137	680.00	379.1	0.013	6.0	0.013	1.32	0.0088	13.5
CO-223	355	665.60	354	650.64	1,778.9	0.008	8.0	0.013	1.77	0.0449	57.7
CO-224	135	679.62	134	653.27	1,335.1	0.020	6.0	0.013	1.38	0.0062	16.3
CO-225	134	653.27	133	644.00	562.7	0.016	6.0	0.013	2.18	0.0361	21.0
CO-226	133	644.00	12th Street LS (Downtown)	622.00	549.6	0.040	6.0	0.013	2.98	0.0361	19.2
CO-227	356	667.08	320	648.58	2,402.2	0.008	8.0	0.013	2.04	0.0801	60.5
CO-228	132	627.15	12th Street LS (Downtown)	622.00	244.8	0.021	6.0	0.013	2.74	0.0592	26.3
CO-229	357	669.69	358	641.44	1,728.6	0.016	8.0	0.013	2.38	0.0554	60.0
CO-230	131	628.00	132	627.15	405.8	0.002	6.0	0.013	1.20	0.0592	35.6
CO-231	130	629.50	131	628.00	197.5	0.008	8.0	0.013	1.83	0.0574	25.6
CO-232	129	630.50	130	629.50	383.8	0.003	8.0	0.013	1.26	0.0574	23.0
CO-233	128	631.00	129	630.50	153.7	0.003	8.0	0.013	1.18	0.0359	22.4
CO-234	360	665.00	359	651.40	1,183.8	0.011	8.0	0.013	1.61	0.0229	25.4
CO-235	127	632.00	128	631.00	351.8	0.003	8.0	0.013	1.08	0.0305	18.8
CO-236	362	677.92	361	675.46	471.7	0.005	12.0	0.013	3.56	1.1914	60.6
CO-237	126	633.00	127	632.00	344.4	0.003	8.0	0.013	1.05	0.0269	17.7
CO-238	5	689.00	363	715.00	673.2	0.039	8.0	0.013	2.42	0.0211	29.6

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CO-239	125	634.00	126	633.00	179.5	0.006	8.0	0.013	0.99	0.0108	13.3
CO-240	364	712.00	2	688.00	890.5	0.027	8.0	0.013	3.12	0.0766	33.7
CO-241	124	634.50	125	634.00	212.1	0.002	8.0	0.013	0.66	0.0072	9.5
CO-242	365	714.00	364	712.00	276.5	0.007	8.0	0.013	1.83	0.0598	22.2
CO-243	123	635.37	126	633.00	321.6	0.007	8.0	0.013	1.05	0.0090	12.6
CO-244	366	715.00	365	714.00	306.0	0.003	8.0	0.013	1.03	0.0220	17.9
CO-245	122	635.00	127	632.00	178.5	0.017	8.0	0.013	0.84	0.0018	11.0
CO-246	367	726.00	366	715.00	807.7	0.014	8.0	0.013	1.63	0.0194	13.4
CO-247	121	635.41	127	632.00	173.3	0.020	8.0	0.013	0.89	0.0018	11.0
CO-248	368	700.00	7	694.00	460.6	0.013	8.0	0.013	2.16	0.0528	30.8
CO-249	120	635.00	128	631.00	150.1	0.027	8.0	0.013	1.40	0.0054	12.7
CO-250	369	718.00	368	700.00	841.0	0.021	8.0	0.013	1.88	0.0185	15.5
CO-251	119	634.00	126	633.00	500.8	0.002	8.0	0.013	0.62	0.0072	13.5
CO-252	370	713.00	368	700.00	1,071.5	0.012	8.0	0.013	1.70	0.0255	16.5
CO-253	118	627.79	117	626.32	289.7	0.005	8.0	0.013	0.55	0.0018	3.9
CO-254	371	700.00	7	694.00	1,023.4	0.006	8.0	0.013	1.99	0.1038	35.2
CO-255	117	626.32	116	618.45	198.6	0.040	6.0	0.013	1.19	0.0018	13.4
CO-256	372	711.50	371	700.00	310.2	0.037	8.0	0.013	2.85	0.0387	22.4
CO-257	115	621.81	116	618.45	445.2	0.008	6.0	0.013	1.54	0.0283	21.1
CO-258	373	723.00	372	711.50	1,099.7	0.010	8.0	0.013	1.56	0.0229	14.7
CO-259	114	623.31	115	621.81	233.6	0.006	6.0	0.013	1.33	0.0213	19.4
CO-260	374	713.00	372	711.50	582.4	0.003	8.0	0.013	0.80	0.0123	14.3
CO-261	113	628.33	114	623.31	342.6	0.015	6.0	0.013	1.41	0.0097	15.1
CO-262	421	703.00	371	700.00	712.0	0.004	8.0	0.013	1.44	0.0510	24.8
CO-263	375	728.00	421	703.00	1,201.3	0.021	8.0	0.013	2.42	0.0440	19.6
CO-264	1	698.09	376	696.53	355.3	0.004	8.0	0.013	1.77	0.1003	33.9
CO-265	112	615.01	111	611.01	237.9	0.017	6.0	0.013	1.59	0.0123	15.7
CO-266	420	703.53	376	696.53	605.5	0.012	8.0	0.013	2.28	0.0730	30.5
CO-267	377	706.51	420	703.53	298.4	0.010	8.0	0.013	1.98	0.0537	21.3
CO-268	111	611.01	110	608.70	275.6	0.008	6.0	0.013	1.48	0.0220	25.3

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CO-269	378	713.85	377	706.51	733.8	0.010	8.0	0.013	1.64	0.0282	16.9
CO-270	110	608.70	109	604.00	344.3	0.014	6.0	0.013	2.48	0.0705	30.1
CO-271	379	714.15	377	706.51	764.5	0.010	8.0	0.013	1.59	0.0255	16.6
CO-272	380	719.51	378	713.85	565.7	0.010	8.0	0.013	1.11	0.0079	10.8
CO-273	109	604.00	Meadowlands LS	575.00	387.8	0.075	6.0	0.013	4.51	0.0705	25.4
CO-275	116	618.45	108	614.00	188.1	0.024	6.0	0.013	2.38	0.0318	23.3
CO-276	376	696.53	381	694.75	339.3	0.005	8.0	0.013	2.21	0.1734	43.5
CO-277	108	614.00	110	608.70	259.6	0.020	6.0	0.013	2.45	0.0415	28.8
CO-278	381	694.75	382	703.00	251.3	0.033	8.0	0.013	2.76	0.0405	33.0
CO-279	107	614.58	110	608.70	315.6	0.019	6.0	0.013	1.40	0.0070	21.4
CO-280	419	707.83	382	703.00	385.6	0.013	8.0	0.013	1.97	0.0405	15.8
CO-281	383	719.54	419	707.83	1,171.0	0.010	8.0	0.013	1.67	0.0299	15.8
CO-282	418	708.77	381	694.75	473.6	0.030	8.0	0.013	2.71	0.0422	33.2
CO-283	384	719.84	418	708.77	1,106.7	0.010	8.0	0.013	1.65	0.0290	15.9
CO-284	385	685.81	341	679.33	484.7	0.013	12.0	0.013	4.53	0.7637	59.9
CO-285	105	622.00	104	617.00	414.5	0.012	8.0	0.013	1.22	0.0088	8.6
CO-286	386	687.25	385	685.81	641.4	0.002	12.0	0.013	2.27	0.6863	51.7
CO-287	104	617.00	103	615.00	206.6	0.010	8.0	0.013	1.26	0.0123	13.3
CO-288	387	688.61	386	687.25	444.9	0.003	12.0	0.013	2.42	0.5502	51.7
CO-289	103	615.00	102	609.00	1,139.8	0.005	8.0	0.013	1.42	0.0370	16.8
CO-290	388	693.02	390	692.34	257.6	0.003	12.0	0.013	2.23	0.4959	52.6
CO-291	102	609.00	101	608.00	117.7	0.008	8.0	0.013	1.68	0.0370	16.3
CO-292	389	710.00	388	693.02	1,344.6	0.013	8.0	0.013	1.83	0.0308	41.3
CO-293	101	608.00	100	607.00	152.9	0.007	8.0	0.013	1.53	0.0370	19.8
CO-294	100	607.00	99	604.00	533.6	0.006	8.0	0.013	1.75	0.0695	24.3
CO-295	99	604.00	98	600.83	341.8	0.009	8.0	0.013	2.24	0.0889	30.4
CO-296	390	692.34	387	692.22	161.6	0.001	12.0	0.013	1.37	0.4959	48.3
CO-297	98	600.83	97	600.00	397.2	0.002	8.0	0.013	1.34	0.0959	31.5
CO-298	391	695.51	388	693.02	1,082.9	0.002	12.0	0.013	2.08	0.4651	45.2

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CO-299	97	600.00	96	597.00	421.0	0.007	8.0	0.013	2.14	0.1047	28.3
CO-300	392	696.28	391	695.51	286.3	0.003	12.0	0.013	2.17	0.4378	43.6
CO-301	96	597.00	95	592.25	458.7	0.010	8.0	0.013	2.50	0.1144	27.3
CO-302	393	696.97	392	696.28	250.7	0.003	12.0	0.013	2.16	0.4184	41.3
CO-303	95	592.25	Meadowlands LS	575.00	518.3	0.033	8.0	0.013	3.78	0.1144	24.1
CO-304	394	697.75	393	696.97	281.7	0.003	12.0	0.013	2.14	0.3991	40.1
CO-305	106	619.36	94	614.07	439.9	0.012	6.0	0.013	1.59	0.0185	17.9
CO-306	395	700.29	394	697.75	850.9	0.003	10.0	0.013	1.69	0.1461	38.4
CO-307	94	614.07	100	607.00	458.6	0.015	6.0	0.013	1.92	0.0255	25.2
CO-308	396	702.14	395	700.29	698.9	0.003	10.0	0.013	1.34	0.0766	25.7
CO-309	397	702.95	396	702.14	269.9	0.003	10.0	0.013	1.34	0.0651	20.7
CO-310	93	617.16	99	604.00	836.4	0.016	6.0	0.013	1.68	0.0158	24.6
CO-311	92	615.00	91	604.57	476.8	0.022	6.0	0.013	1.43	0.0062	10.7
CO-312	398	731.00	397	702.95	849.2	0.033	8.0	0.013	2.36	0.0238	18.7
CO-313	91	604.57	96	597.00	216.8	0.035	6.0	0.013	1.92	0.0097	25.2
CO-314	90	635.00	89	634.00	343.2	0.003	8.0	0.013	1.81	0.1849	41.7
CO-315	399	707.85	395	700.29	435.5	0.017	8.0	0.013	2.60	0.0695	29.6
CO-316	89	634.00	88	630.05	411.2	0.010	8.0	0.013	2.80	0.1849	35.3
CO-317	88	630.05	87	625.84	523.1	0.008	8.0	0.013	2.62	0.1849	36.1
CO-318	400	709.00	399	707.85	271.3	0.004	8.0	0.013	1.58	0.0695	23.7
CO-319	87	625.84	189	620.00	375.6	0.016	8.0	0.013	3.32	0.1849	68.5
CO-320	86	669.00	179	665.00	760.4	0.005	8.0	0.013	0.70	0.0036	48.2
CO-321	85	675.00	177	668.00	890.7	0.008	10.0	0.013	3.41	0.5287	69.2
CO-322	401	723.00	394	697.75	1,998.2	0.013	8.0	0.013	3.32	0.2424	51.0
CO-323	84	682.00	85	675.00	564.1	0.012	8.0	0.013	4.02	0.5146	59.3
CO-324	402	741.00	401	723.00	1,418.8	0.013	8.0	0.013	2.65	0.1087	35.4
CO-325	83	686.00	84	682.00	209.2	0.019	8.0	0.013	4.38	0.3834	58.8
CO-326	403	744.00	402	741.00	790.9	0.004	8.0	0.013	1.47	0.0620	26.2
CO-327	82	686.50	83	686.00	151.9	0.003	8.0	0.013	2.23	0.3808	62.6

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CO-328	404	755.00	403	744.00	836.8	0.013	8.0	0.013	1.61	0.0194	18.0
CO-329	81	687.00	82	686.50	133.5	0.004	8.0	0.013	2.34	0.3755	68.8
CO-330	405	753.00	403	744.00	588.3	0.015	8.0	0.013	1.66	0.0185	17.9
CO-331	80	688.00	83	686.00	320.5	0.006	8.0	0.013	0.67	0.0026	29.5
CO-332	406	732.00	401	723.00	1,155.9	0.008	8.0	0.013	2.36	0.1338	37.0
CO-333	407	736.00	406	732.00	664.2	0.006	8.0	0.013	2.02	0.1056	29.8
CO-334	78	661.50	79	659.00	324.9	0.008	8.0	0.013	2.26	0.1153	29.5
CO-335	408	737.00	407	736.00	270.9	0.004	8.0	0.013	1.44	0.0598	26.1
CO-336	77	662.00	78	661.50	50.3	0.010	8.0	0.013	2.44	0.1100	28.7
CO-337	409	757.00	408	737.00	1,140.8	0.018	8.0	0.013	2.12	0.0343	19.8
CO-338	76	665.00	77	662.00	485.5	0.006	8.0	0.013	1.54	0.0405	22.9
CO-339	410	755.00	408	737.00	1,141.4	0.016	8.0	0.013	1.86	0.0255	18.7
CO-340	75	669.00	76	665.00	475.3	0.008	8.0	0.013	1.63	0.0343	16.5
CO-341	411	740.00	397	702.95	1,072.5	0.035	8.0	0.013	2.83	0.0414	20.8
CO-342	74	672.00	75	669.00	401.4	0.007	8.0	0.013	1.46	0.0273	14.8
CO-346	413	711.00	394	697.75	639.1	0.021	8.0	0.013	1.56	0.0106	34.0
CO-347	414	705.00	393	696.97	610.2	0.013	8.0	0.013	1.61	0.0194	36.3
CO-348	415	702.50	392	696.28	607.9	0.010	8.0	0.013	1.47	0.0194	37.3
CO-349	73	698.00	72	696.00	255.4	0.008	6.0	0.013	0.83	0.0035	9.6
CO-350	416	715.47	4	703.96	1,151.0	0.010	8.0	0.013	1.77	0.0370	17.8
CO-351	72	696.00	71	682.00	576.3	0.024	6.0	0.013	1.68	0.0097	13.9
CO-352	417	712.02	3	700.75	1,127.0	0.010	8.0	0.013	1.73	0.0334	17.9
CO-353	71	682.00	70	674.00	390.1	0.021	8.0	0.013	1.89	0.0202	13.3
CO-354	422	639.60	203	639.30	133.7	0.002	8.0	0.013	0.42	0.0018	76.1
CO-355	70	674.00	69	672.22	263.7	0.007	8.0	0.013	1.45	0.0299	17.8
CO-356	423	643.00	424	625.81	1,116.5	0.015	8.0	0.013	2.83	0.1080	60.0
CO-357	205	613.90	425	612.00	43.1	0.044	8.0	0.013	4.23	0.1188	23.9
CO-358	426	606.67	427	605.83	294.4	0.003	36.0	0.013	5.22	13.2791	54.6
CO-359	427	605.83	428	604.98	300.8	0.003	36.0	0.013	5.20	13.2791	52.0
CO-360	68	691.50	69	672.22	1,223.9	0.016	6.0	0.013	1.73	0.0176	22.0

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CO-361	428	604.98	429	604.14	212.1	0.004	36.0	0.013	5.91	13.2791	58.3
CO-362	429	604.14	430	603.75	203.9	0.002	36.0	0.013	4.47	13.2791	69.6
CO-363	67	686.00	66	671.00	1,226.7	0.012	6.0	0.013	1.59	0.0176	23.0
CO-364	430	603.75	431	603.57	84.1	0.002	36.0	0.013	4.77	14.6083	73.3
CO-365	431	603.57	432	603.16	317.5	0.001	36.0	0.013	3.86	14.6083	73.4
CO-366	69	672.22	66	671.00	273.5	0.004	8.0	0.013	1.46	0.0502	21.7
CO-367	66	671.00	77	662.00	275.9	0.033	8.0	0.013	3.24	0.0695	25.4
CO-368	432	603.16	433	602.41	556.6	0.001	36.0	0.013	3.93	14.6083	61.7
CO-369	433	602.41	Justin Treatment Plant	596.00	189.0	0.034	36.0	0.013	13.25	14.6083	40.0
CO-370	65	684.00	208	681.50	426.9	0.006	8.0	0.013	1.34	0.0273	17.4
CO-371	434	688.76	438	670.33	2,927.0	0.006	21.0	0.013	5.37	4.5387	58.2
CO-372(1)	438	670.33	460	664.17	1,000.5	0.006	21.0	0.013	5.51	5.2358	62.9
CO-372(2)	460	664.17	435	635.85	4,596.4	0.006	21.0	0.013	5.69	6.1263	72.4
CO-373	64	686.50	65	684.00	448.6	0.006	8.0	0.013	1.14	0.0167	13.1
CO-374	435	635.85	436	628.55	1,213.7	0.006	30.0	0.013	6.57	10.8931	62.5
CO-375	63	691.00	64	686.50	258.3	0.017	8.0	0.013	1.20	0.0053	8.9
CO-376	436	628.55	437	627.00	630.3	0.002	30.0	0.013	4.63	10.9092	62.6
CO-377	62	688.00	64	686.50	95.2	0.016	8.0	0.013	0.82	0.0018	7.6
CO-378(1)	437	627.00	473	626.31	134.1	0.005	30.0	0.013	6.21	10.9092	55.6
CO-378(2)	473	626.31	323	619.50	1,317.2	0.005	30.0	0.013	6.21	10.9419	62.0
CO-379	61	691.00	60	686.00	484.7	0.010	8.0	0.013	1.24	0.0106	10.2
CO-380	240	702.58	337	706.45	884.6	0.004	8.0	0.013	1.74	0.0950	30.6
CO-381	60	686.00	59	683.50	313.1	0.008	8.0	0.013	1.35	0.0194	12.1
CO-382	280	606.77	Timberbrooks LS	606.50	58.8	0.005	15.0	0.013	3.66	1.5622	51.4
CO-383	59	683.50	208	681.50	258.1	0.008	8.0	0.013	1.39	0.0220	16.3
CO-384	439	682.54	441	675.45	178.5	0.040	15.0	0.013	6.15	0.6204	24.6
CO-385	441	675.45	438	670.33	345.8	0.015	15.0	0.013	4.34	0.6204	57.6

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CO-386	58	689.97	60	686.00	174.0	0.023	8.0	0.013	0.94	0.0018	7.6
CO-387	440	686.12	439	682.54	300.9	0.012	15.0	0.013	4.02	0.6204	27.9
CO-388	57	681.00	56	668.31	413.5	0.031	8.0	0.013	1.83	0.0114	7.7
CO-390	56	668.31	55	665.37	237.4	0.012	8.0	0.013	1.35	0.0114	10.8
CO-392	54	678.00	55	665.37	306.6	0.041	8.0	0.013	1.88	0.0088	10.3
CO-394	53	677.22	52	666.26	424.4	0.026	8.0	0.013	1.76	0.0123	10.1
CO-396	51	672.00	52	666.26	215.7	0.027	8.0	0.013	1.14	0.0026	7.6
CO-398	50	681.00	49	674.00	385.5	0.018	8.0	0.013	1.49	0.0106	9.3
CO-401	49	674.00	225	669.14	252.1	0.019	8.0	0.013	1.68	0.0141	22.9
CO-408	47	676.59	46	659.46	1,248.2	0.014	8.0	0.013	1.91	0.0326	19.3
CO-410	48	677.33	45	651.86	997.6	0.026	8.0	0.013	2.01	0.0185	18.2
CO-413	46	659.46	344	670.00	702.0	0.015	8.0	0.013	1.75	0.0220	17.9
CO-414	343	670.00	45	651.86	985.0	0.018	8.0	0.013	1.92	0.0238	18.9
CO-416	44	629.32	204	627.53	373.1	0.005	8.0	0.013	2.24	0.2086	41.3
CO-418	45	651.86	43	630.25	914.1	0.024	8.0	0.013	3.08	0.0854	33.8
CO-420	43	630.25	44	629.32	188.0	0.005	8.0	0.013	2.27	0.2086	42.9
CO-422	52	666.26	42	647.00	256.6	0.075	8.0	0.013	2.81	0.0167	8.6
CO-424	42	647.00	41	639.00	365.7	0.022	8.0	0.013	1.84	0.0167	17.5
CO-426	312	645.00	40	641.95	208.3	0.015	8.0	0.013	2.02	0.0361	14.7
CO-428	40	641.95	39	622.00	373.0	0.053	8.0	0.013	3.17	0.0361	22.8
CO-430	39	622.00	205	613.90	413.0	0.020	8.0	0.013	3.18	0.1188	25.9
CO-431	38	621.00	93	617.16	148.3	0.026	6.0	0.013	1.15	0.0026	10.7
CO-432	37	621.00	106	619.36	208.5	0.008	6.0	0.013	0.68	0.0018	10.9
CO-433	36	624.00	108	614.00	405.8	0.025	6.0	0.013	1.60	0.0079	17.8
CO-434	35	624.00	106	619.36	483.3	0.010	6.0	0.013	1.18	0.0088	13.9
CO-435	34	626.99	112	615.01	303.4	0.039	12.0	0.013	1.64	0.0070	5.5
CO-436	33	662.09	183	649.00	1,015.0	0.013	6.0	0.013	1.45	0.0123	56.7
CO-437	32	669.74	182	650.00	1,097.2	0.018	6.0	0.013	1.76	0.0158	57.6
CO-438	31	649.81	171	646.05	291.6	0.013	6.0	0.013	0.99	0.0035	10.7
CO-439	30	641.00	172	639.48	265.3	0.006	6.0	0.013	0.76	0.0036	12.6

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Infrastructure Upgrades in Future Conditions
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-440	29	658.29	28	638.00	776.5	0.026	6.0	0.013	1.58	0.0071	10.7
CO-441	28	638.00	27	637.33	55.4	0.012	6.0	0.013	1.28	0.0089	10.8
CO-442	27	637.33	167	629.20	165.0	0.049	6.0	0.013	2.09	0.0089	55.7
CO-443	26	656.00	185	645.00	726.4	0.015	6.0	0.013	1.57	0.0132	56.9
CO-444	25	639.27	173	626.80	539.7	0.023	6.0	0.010	1.94	0.0088	55.6
CO-445	24	633.00	131	628.00	139.7	0.036	8.0	0.013	1.11	0.0018	17.2
CO-446	23	632.98	129	630.50	282.6	0.009	8.0	0.013	0.68	0.0018	14.6
CO-447	160	635.27	12th Street LS (Downtown)	622.00	328.5	0.040	8.0	0.013	3.39	0.0626	17.4
CO-448(1)	22	651.05	477	648.99	743.5	0.003	10.0	0.013	2.35	0.5987	71.5
CO-448(2)	477	648.99	292	647.93	381.5	0.003	10.0	0.013	2.40	0.6819	76.3
CO-449	21	641.91	358	641.44	147.6	0.003	15.0	0.013	3.14	1.4756	59.1
CO-450	358	641.44	202	640.44	347.3	0.003	15.0	0.013	3.04	1.5381	62.5
CO-452	20	696.00	19	693.50	751.8	0.003	8.0	0.013	2.18	0.3271	56.6
CO-453	19	693.50	18	688.75	321.3	0.015	8.0	0.013	3.82	0.3271	54.5
CO-454	17	660.12	359	651.40	1,003.1	0.009	8.0	0.013	2.58	0.1584	36.2
CO-455	359	651.40	202	640.44	551.3	0.020	8.0	0.013	3.68	0.1945	69.0
CO-456	18	688.75	81	687.00	325.0	0.005	8.0	0.013	2.71	0.3755	62.9
CO-461(1)	16	683.00	475	673.00	1,603.5	0.006	8.0	0.013	2.31	0.1644	45.3
CO-461(2)	475	673.00	342	658.95	2,244.4	0.006	8.0	0.013	2.85	0.3659	61.9
CO-462	320	648.58	21	641.91	866.7	0.008	12.0	0.013	4.34	1.4756	68.2
CO-464	14	677.74	285	665.28	1,010.6	0.012	8.0	0.013	1.46	0.0150	12.5
CO-465	79	659.00	12th Street LS (Private)	645.00	403.8	0.035	8.0	0.013	3.92	0.1223	24.8
CO-466	13	636.61	12	626.00	1,177.1	0.009	8.0	0.013	0.85	0.0036	6.1
CO-467	12	626.00	114	623.31	227.5	0.012	8.0	0.013	1.14	0.0072	10.5

2024 City of Justin Wastewater Model Update.stsw
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Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-468	11	635.83	12	626.00	1,238.6	0.008	8.0	0.013	0.81	0.0036	6.2
CO-469	10	611.22	9	600.00	731.6	0.015	10.0	0.013	1.76	0.0240	9.0
CO-470	9	600.00	8	597.00	587.0	0.005	18.0	0.013	1.10	0.0240	28.0
CO-471	8	597.00	Justin Treatment Plant	596.00	132.8	0.008	24.0	0.013	5.14	3.0484	35.8
CO-474	425	609.57	426	606.67	473.4	0.006	30.0	0.013	6.90	13.0037	63.1
CO-475	189	620.00	8	597.00	298.0	0.077	18.0	0.013	12.11	3.0244	41.2
CO-476	7	694.00	6	692.50	512.8	0.003	8.0	0.013	1.73	0.1566	41.5
CO-477	6	692.50	5	689.00	1,067.3	0.003	8.0	0.013	1.81	0.1566	43.9
CO-478	4	703.96	1	698.09	835.9	0.007	8.0	0.013	1.74	0.0519	24.6
CO-479	5	689.00	2	688.00	386.2	0.003	8.0	0.013	1.71	0.1778	45.4
CO-480	2	688.00	336	677.25	291.3	0.037	8.0	0.013	4.96	0.2543	35.8
CO-481	3	700.75	1	698.09	564.1	0.005	8.0	0.013	1.47	0.0484	25.1
CO-482	381	694.75	353	694.00	162.1	0.005	8.0	0.013	2.33	0.2561	59.0
CO-483	464	718.00	456	673.00	3,406.4	0.013	15.0	0.013	6.64	3.5921	80.8
CO-484(1)	443	713.00	461	703.00	1,147.3	0.009	18.0	0.013	5.63	3.3686	61.3
CO-484(2)(1)	461	703.00	468	694.90	932.8	0.009	18.0	0.013	5.85	3.9861	82.0
CO-484(2)(2)	468	694.90	434	688.76	708.0	0.009	15.0	0.013	5.47	4.3357	91.7
CO-485	444	798.00	445	733.00	3,754.3	0.017	8.0	0.013	4.68	0.5721	83.4
CO-486	445	733.00	443	713.00	2,582.5	0.008	15.0	0.013	5.13	2.8993	69.5
CO-487(1)	446	787.00	466	772.00	1,496.7	0.010	8.0	0.013	1.82	0.0405	29.2
CO-487(2)	466	772.00	447	770.00	511.4	0.004	8.0	0.013	1.99	0.1754	46.2
CO-488	447	770.00	456	673.00	7,808.9	0.012	8.0	0.013	3.62	0.3401	75.5
CO-489	448	718.00	461	703.00	2,042.7	0.007	8.0	0.013	3.16	0.4363	79.4
CO-490	455	758.00	453	728.00	3,435.9	0.009	10.0	0.013	4.21	1.1268	85.6
CO-491	450	750.00	445	733.00	4,077.0	0.004	12.0	0.013	3.18	1.0559	74.1
CO-492	451	688.00	452	648.00	3,066.6	0.013	15.0	0.013	6.17	2.6405	71.8

2024 City of Justin Wastewater Model Update.stsw
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FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-493(1)	452	648.00	463	638.00	2,294.5	0.004	18.0	0.013	4.32	3.3993	65.6
CO-493(2)	463	638.00	479	628.00	2,274.3	0.004	21.0	0.013	4.59	4.1752	56.9
CO-495	453	728.00	Soutwest ETJ LS	723.00	1,858.5	0.003	10.0	0.013	4.46	1.5732	91.6
CO-496	454	728.00	448	718.00	2,028.8	0.005	8.0	0.013	2.62	0.3762	59.8
CO-497	449	791.00	455	758.00	3,220.1	0.010	8.0	0.013	3.90	0.6410	79.9
CO-498	456	673.00	435	635.85	2,699.9	0.014	15.0	0.013	7.02	4.5837	92.6
CO-499	457	673.00	436	628.55	1,440.5	0.031	8.0	0.013	2.04	0.0161	55.3
CO-500	458	688.00	456	673.00	1,524.1	0.010	8.0	0.013	3.49	0.4116	78.2
CO-501	459	610.50	281	607.50	710.1	0.004	12.0	0.013	1.97	0.1737	23.1
CO-502	462	673.00	463	638.00	2,294.2	0.015	8.0	0.013	3.57	0.2464	71.5
CO-503	442	768.00	464	718.00	5,429.8	0.009	15.0	0.013	5.71	3.5921	75.2
CO-504	466	772.00	465	779.00	1,610.0	0.004	8.0	0.013	1.92	0.1349	38.2
CO-505	467	718.00	468	694.90	1,438.6	0.016	8.0	0.013	4.01	0.3496	75.9
CO-506	469	688.00	386	687.25	1,306.5	0.001	12.0	0.013	0.90	0.1361	45.7
CO-507	471	678.00	438	670.33	239.6	0.032	12.0	0.013	3.15	0.0766	57.0
CO-508	470	665.00	342	658.95	1,684.8	0.004	8.0	0.013	1.92	0.1728	55.3
CO-509	472	678.00	176	669.00	1,604.9	0.006	10.0	0.013	3.13	0.6247	63.4
CO-510	474	627.00	473	626.31	61.0	0.011	12.0	0.013	1.69	0.0327	84.9
CO-511	476	649.50	477	648.99	569.4	0.001	8.0	0.013	0.95	0.0832	68.4
CO-512	478	617.00	484	590.00	4,651.4	0.006	10.0	0.013	3.44	0.9312	85.8
CO-513	479	628.00	480	623.00	1,166.6	0.004	21.0	0.013	4.55	4.1752	61.1
CO-514	480	623.00	481	600.00	5,501.6	0.004	21.0	0.013	4.68	5.0182	65.6
CO-515	481	600.00	482	593.00	1,674.0	0.004	21.0	0.013	4.70	5.1182	83.0
CO-516	482	593.00	North ETJ	592.00	133.2	0.008	15.0	0.013	6.57	5.2116	94.7
CO-517	483	600.00	482	593.00	913.7	0.008	8.0	0.013	2.12	0.0934	63.0
CO-519	485	604.00	484	590.00	2,998.4	0.005	12.0	0.013	3.46	1.3029	84.7
CO-520	484	590.00	Denton Creek SS	589.00	171.3	0.006	12.0	0.013	4.40	2.2341	89.7

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FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-521	486	619.00	487	615.00	1,826.2	0.002	12.0	0.013	1.78	0.2780	30.9
CO-522	487	615.00	280	606.77	274.1	0.030	12.0	0.013	4.52	0.2780	46.7

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Infrastructure Upgrades in Future Conditions
FlexTable: Outfall Table

Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Flow (Total Out) (MGD)
Meadowlands LS	600.74	575.00	0.1849
12th Street LS (Private)	666.05	645.00	0.1223
12th Street LS (Downtown)	637.00	622.00	0.1579
Timberbrooks LS	626.50	606.50	1.5622
Justin Treatment Plant	616.27	596.00	17.6567
Soutwest ETJ LS	730.00	723.00	1.5732
Denton Creek SS	600.00	589.00	2.2341
North ETJ	620.00	592.00	5.2116

WATER MASTER PLAN

CITY OF JUSTIN, TEXAS

JULY 2024

PREPARED FOR:

City of Justin, Texas

PREPARED BY:

Westwood

Westwood

City of Justin, Texas

Water Masterplan

City of Justin, Texas

Prepared For:

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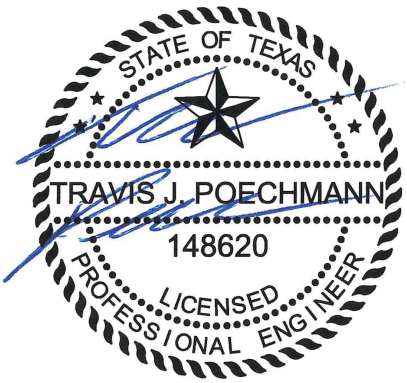

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Project Number: R0044439.00
Date: July 2024

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Westwood

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1 Introduction

1.1 Purpose

This report provides an update to the January 2021 Water Master Plan prepared by Pacheco Koch for The City of Justin, Texas (COJ). The City of Justin is a fast-growing city near the Dallas Forth Worth Metroplex area in Texas. COJ acquired Extraterritorial Jurisdiction (ETJ) over an external territory which is rapidly being developed and will require water infrastructure improvements to accommodate its growth. This water master plan was prepared for an existing condition including proposed developments to be fully constructed by 2028, and a future condition including a full buildout for the City of Justin and the Extraterritorial Jurisdiction.

The information presented in this report is at a planning level only and should not be considered the final design of the proposed water system. Details of the proposed infrastructure facilities will require refinement as the detailed parcel layouts and roadway plans are developed.

1.2 Contributing Land and Corresponding Land Use Analysis

Assumptions for land use of land contributing to water system demands are listed below and shown on Figure 1 – Land Use Plan in Appendix A.

Existing:

- For all developed land existing land use was assumed, and for submitted/approved plans planned land uses were assumed.
- Existing Homes within ETJ are assumed to be on separate well systems and will not be connected to the water infrastructure in the future.

Future:

- The assumed land uses for future development were either single family residential (SFR) or commercial.
- Parcels directly adjacent to the FM 401 were assumed future commercial and all other land was assumed SFR.

The model was updated using submitted development plans, current NearMap aerials, and the City of Justin existing infrastructure GIS.

1.3 Water Master Planning Assumptions

This section summarizes the design criteria and general assumptions made to develop a hydraulic model and design requirements of proposed water infrastructure:

- A design criterion was established by evaluating adjacent city design standards, existing usage data from the City of Justin, and the Texas Administrative Code.
- This update considers the existing and approved water systems.
- Node elevations used are based on existing grades, proposed street grades and lot elevations.
- Fire flow criteria for proposed developments were assumed to be 1,500 gpm for residential and commercial land use.
- Hazen Williams coefficient of 110 was assumed for all pipelines.

- This analysis assumes that a new Upper Trinity Regional Water District delivery point will supply the 905 water pressure zone directly at the Timberbrook ground storage.

1.4 Design Criteria

This report will propose water infrastructure as a function of the following hydraulic design parameters.

Pressure Requirements:

Per the Texas Administrative Code, the system must be designed to support a minimum pressure of 35 psi at all points within the distribution network, and during fire events the system must maintain a minimum pressure of 20 psi.

Storage Requirements:

Per the Texas Administrative Code, system over 250 connections require a total storage capacity of 200 gallons per connection and systems over 2,500 connections require an elevated storage capacity of 100 gallons per connection.

Pumping Requirements:

Per the Texas Administrative Code, it is required to have two or more pumps with a capacity of 0.6 gpm per connection or a total capacity of at least 1,000 gpm and the ability to meet peak hour demands.

Fire Flow:

Minimum fire flow availability of 1,500 gpm at each hydrant located in single-family residential areas, non-residential or multi-family residential areas.

2 Water Master Plan

To model future infrastructure for the City of Justin, monthly meter billing data for 2021-2022 was obtained from the city. The data was extrapolated to determine average water usage at each connection.

Demands in the existing model were not adjusted and assumed to be accurate based on previous meter data. Units from the existing model were estimated using the previously submitted water master plan for the City of Justin. Base demands placed at junctions were divided by the average usage per connection (0.14 gpm) estimated for the billing data for 2019-2020.

Additionally, the water master plan update prepared in 2021 utilized an average usage per connection of 0.17 gpm for the Timberbrook development. A portion of Timberbrook was analyzed with a flow of 0.17gpm per connection.

For all unit demands a maximum day and peak hour peaking factor of 1.9 and 2.5 were used, respectively. See Table 2-1 for a summary of all unit demands calculated.

TABLE 2-1 UNIT DEMANDS

Unit Demand	gpm/connection
Commercial 2024	0.41
Commercial Max Day 2024	0.78
Residential 2024	0.31
Residential Max Day 2024	0.59
Bill Average	0.14
Bill Average Max Day	0.27
Timberbrook PK 2021	0.17
Timberbrook PK Max Day 2021	0.32

2.1 Water Pressure Zone Boundaries

The City of Justin contains two (2) water pressure zones: 832 WPZ and 905 WPZ. The water pressure zones are based on static pressure bands summarized in Table 2-2. See Figure 2 – Water Pressure Zone Map for the City of Justin's water service pressure planes.

TABLE 2-2 WATER PRESSURE ZONE – STATIC PRESSURE BANDS

Zone	Highest Elevation (ft)	Lowest Pressure @ minimum storage level (psi)	Lowest Elevation (ft)	Highest Pressure @ maximum storage level (psi)
832	690	48.48	590	104.76
905	790	36.79	690	93.07

2.2 Existing Water Demand Flow Rates

The units modeled for the existing water system and their corresponding demands are summarized per water pressure zone in Table 2-3.

TABLE 2-3 EXISTING WATER SYSTEM DEMANDS

Zone	Units	Avg Day	Max Day	Peak Hour [1]
832	3,305.24	565.95	1,078.12	1,414.87
905	2,375.88	714.75	1,360.12	1,786.87
Total	**5,681.12**	**1,280.70**	**2,438.24**	**3,201.74**

[1] Peak hour peaking factor was assumed to be 2.5 times the average day demand.

2.3 Future Water Demand Flow Rates

The units modeled for the future water system and their corresponding demands are summarized per water pressure zone in Table 2-4.

TABLE 2-4 FUTURE WATER SYSTEM DEMANDS

Zone	Units	Avg Day	Max Day	Peak Hour
832	7,881.19	2,082.76	3,773.35	5,206.91
905	20,450.06	6,456.54	12,456.24	16,141.35
Total	**28,331.25**	**8,539.30**	**16,229.59**	**21,348.25**

[1] Peak hour peaking factor was assumed to be 2.5 times the average day demand.

2.4 Storage Capacity

Existing Storage

The current storage of the COJ consists of three (3) elevated tanks with a total of 1.6 million gallons of storage capacity and two (2) ground storage tanks with a total of 1.5 million gallons of storage capacity. See Table 2-5 for locations, volumes, elevations, and corresponding water pressure zones.

TABLE 2-5 EXISTING STORAGE CAPACITY

Elevated Storage Location	Volume (gal)	WPZ	Max level (ft)	Min level (ft)	Ground Elevation
Snyder St	300,000	832	832	802	657.7
Reatta Dr	300,000	832	832	802	665.4
W 7th Street	1,000,000	905	905	874	730
SUBTOTAL	**1,600,000**				
Ground Storage Location	**Volume (gal)**	**WPZ**	**Max level (ft)**	**Min level (ft)**	**Ground Elevation**
4th St	500,000	832	670	640	640
W 7th Street	1,000,000	905	760	730	730
SUBTOTAL	**1,500,000**				
TOTAL	**3,100,000**				

The City of Justin currently meets the storage requirements set forth by the Texas Administrative Code (TAC). See Table 2-6 for a summary of system compliance.

TABLE 2-6 STORAGE SYSTEM COMPLIANCE

Existing	Compliance Assessment	WPZ	Number of Connections	TAC Capacity Requirement / connection		Required Amount		Actual Amount		System Compliant
Storage	Total Storage	832	3,305	200	gal/conn	661,048	gal	1,100,000	gal	TRUE
		905	2,376			475,177	gal	2,000,000	gal	TRUE
	Elevated Storage	832	3,305	100	gal/conn	330,524	gal	600,000	gal	TRUE
		905	2,376			237,588	gal	1,000,000	gal	TRUE

Future Storage

For the buildout scenario the City of Justin will require storage upgrades to meet storage requirements. See table 2-7 for proposed supplemental storage at the city buildout.

TABLE 2-7 REQUIRED STORAGE VOLUMES

Proposed	Volume (gal)	WPZ
EST	188,119	832
EST	1,045,006	905
GST	288,119	832
GST	1,045,006	905

2.5 Pump Capacity

The TAC requires a water system to have a pump capacity equivalent to the peak hour demands of the system; or to have a storage capacity of 200 gallons per connection and two service pumps with a minimum capacity of 0.6 gpm per connection at each pressure plane. See Table 2-8 for minimum calculated pump capacities for the existing system and an estimate of units that can be constructed before major pump station upgrades are required.

TABLE 2-8 EXISTING PUMP CAPACITIES PER PRESSURE ZONE

WPZ	Peak Hour	0.6 * units	Required Pump Capacity (gpm)	Existing Pump Station Capacity (gpm)	Remaining Capacity (gpm)	Unit Capacity (units)
832	1,414.87	1,983.14	**1,414.87**	2,500	1,085.13	1,808
905	1,786.87	1,425.53	**1,425.53**	3,000	1,574.47	2,624

The existing system meets pumping requirements for both pressure zones but will require a supplemental pumping capacity of approximately 2,228.71 gpm for the 832 WPZ and 9,270.04 gpm for the 905 WPZ at the buildout condition. See Table 2-9 for future pump capacity calculations and the pump capacity required to support future demands.

TABLE 2-9 FUTURE PUMP CAPACITIES PER PRESSURE ZONE

WPZ	Peak Hour	0.6 * units	Required Pump Capacity (gpm)	Existing Pump Station Capacity (gpm)	Required Supplemental Pump Capacity (gpm)
832	5,206.91	4,728.71	**4,728.715**	2,500	2,228.71
905	16,141.35	12,270.04	**12,270.036**	3,000	9,270.04

3 Water System Model

3.1 Model Development

Hydraulic analyses were run for the following scenarios:

1. 24-hour extended period simulation (EPS) of existing system with maximum day demands
2. Maximum day demands plus emergency fire flow of the existing system.
3. 24-hour extended period simulation (EPS) of the future system with maximum day demands
4. Maximum day demands plus emergency fire flow of the future system.

The 24-hour EPS model was modeled using the diurnal demand pattern in Table 3-1 with an average maximum day peaking factor of 1.9 and a peak hour factor of 2.5 and a secondary peak of 2.4.

TABLE 3-1 DIURNAL CURVE TABLE

Hour	Peaking Factor
0	1.55
1	1.72
2	1.95
3	2.10
4	2.33
5	2.43
6	2.50
7	2.33
8	1.90
9	1.74
10	1.73
11	1.75
12	1.75
13	1.74
14	1.71
15	1.60
16	1.60
17	1.69
18	1.78
19	2.20
20	2.40
21	1.80
22	1.66
23	1.55
Average	**1.90**

Demands were input into the model as a function of land use, see Figure 1 - Land Use Map. Demands were assigned to a single node or distributed evenly among nodes within the land use.

All planned developments, except for Treeline Phases 2, 3, 4, and 5, with planned unit counts and corresponding land use were included in the existing EPS model.

For the future EPS model, 7 commercial units and 5 residential units were assumed per acre. A total of 3,693.63 acres of which 198.28 were commercial were included in the future analysis. Total system units for the existing and future models are summarized in Table 2-3 and Table 2-4, respectively.

3.2 Model Output

The junction pressures for maximum day and maximum day plus fire flow are presented in Figures 3 and 4 for the existing model and Figures 6 and 7 for the future model. The data can be compared with the operational requirements presented in Section 1.4 “Design Criteria” of this report.

4 Recommended Infrastructure

4.1 Existing System Improvements

The existing model update identified improvements that are recommended for the current water system.

To separate the water pressure zones, gate valves need to be closed at the intersection of Timber Ridge Drive and Hackberry Lane and at the intersection of Wrenwood Drive and Hackberry Lane. A third gate valve along Hillside Drive just west of Summit Drive is also required to be closed. However, the existing system is not meeting the 20-psi requirement at all fire hydrant locations during the maximum day plus 1,500 gpm fire flow scenario in this area. It is recommended that in leu of the third gate valve a PRV station is introduced on Hillside Drive to be closed during all flow conditions and only to provide flow to the lower pressure zone during low pressure times caused by fire events. To accomplish this outcome the PRV should be set to 35-40 psi with a recommended setting of 40 psi. See Figure 5 for a water system schematic of the existing system.

4.2 Future System Improvements

In the future, the amount of flow that will be required of the reservoir on 3rd Street and Snyder Ave will trigger pipeline size increases. The 6-inch pipeline along the corridor between 3rd Street and 4th Street from College Avenue to Sealey Avenue, and the 8-inch outlet from the reservoir and additional 8-inch segment ending at Snyder Avenue will all need to be increased to16-inch. This pipeline upgrade will allow the elevated storage tank on Reatta Drive to be properly filled and diminish low levels at peak hours.

To supply all future developments in the 905 pressure plane the following improvements will be required: additional pumping capacity to the Timberbrook Pump Station, a 1.0 MG ground storage, a 1.0 MG elevated storage, a 24-inch backbone to convey water to the 905 WPZ, and a secondary 16-inch feed from the Timberbrook pump station to the elevated storage at the proposed location on FM 407 and B Judge Lane. There was no location selected for additional ground storage required. Refer to sections 2.4 “Storage Capacity” and 2.5 “Pump Capacity” for storage and pumping requirements at buildout conditions.

Currently the Timberbrook EST and adjacent pump station are sharing an outlet transmission. Increasing the pumping capacity at Timberbrook would cause the EST to be in a constant full state and never drain appropriately. Once pump station upgrades are done to the Timberbrook pump station a dedicated inlet and outlet will be needed to control the levels of the EST. A possible solution which was modeled in the future EPS system would be to add controls to the inlet pipe to only open when elevations in the EST reach 880-ft and close when the EST is full.

To supply all future developments in the 832 pressure plane, the following improvements will be required: additional pumping capacity at the 4th Street pump station, a 0.2 MG elevated storage, and a 0.3 MG ground storage. Refer to sections 2.4 “Storage Capacity” and 2.5 “Pump Capacity” for storage and pumping requirements at buildout conditions. See Figure 8 for a water system schematic of the future system.

5 Conclusions & Recommendations

The water infrastructure for the City of Justin, Texas has been planned to meet the requirements of the TAC. The design and construction of the proposed water infrastructure shall generally conform to the recommendations of this master plan. If any further changes to the land use plan in Figure 1 occur, including but not limited to changes in parcel acreage and densities, the water master plan shall be re-evaluated to verify whether revisions to the infrastructure master plan will need to be made.

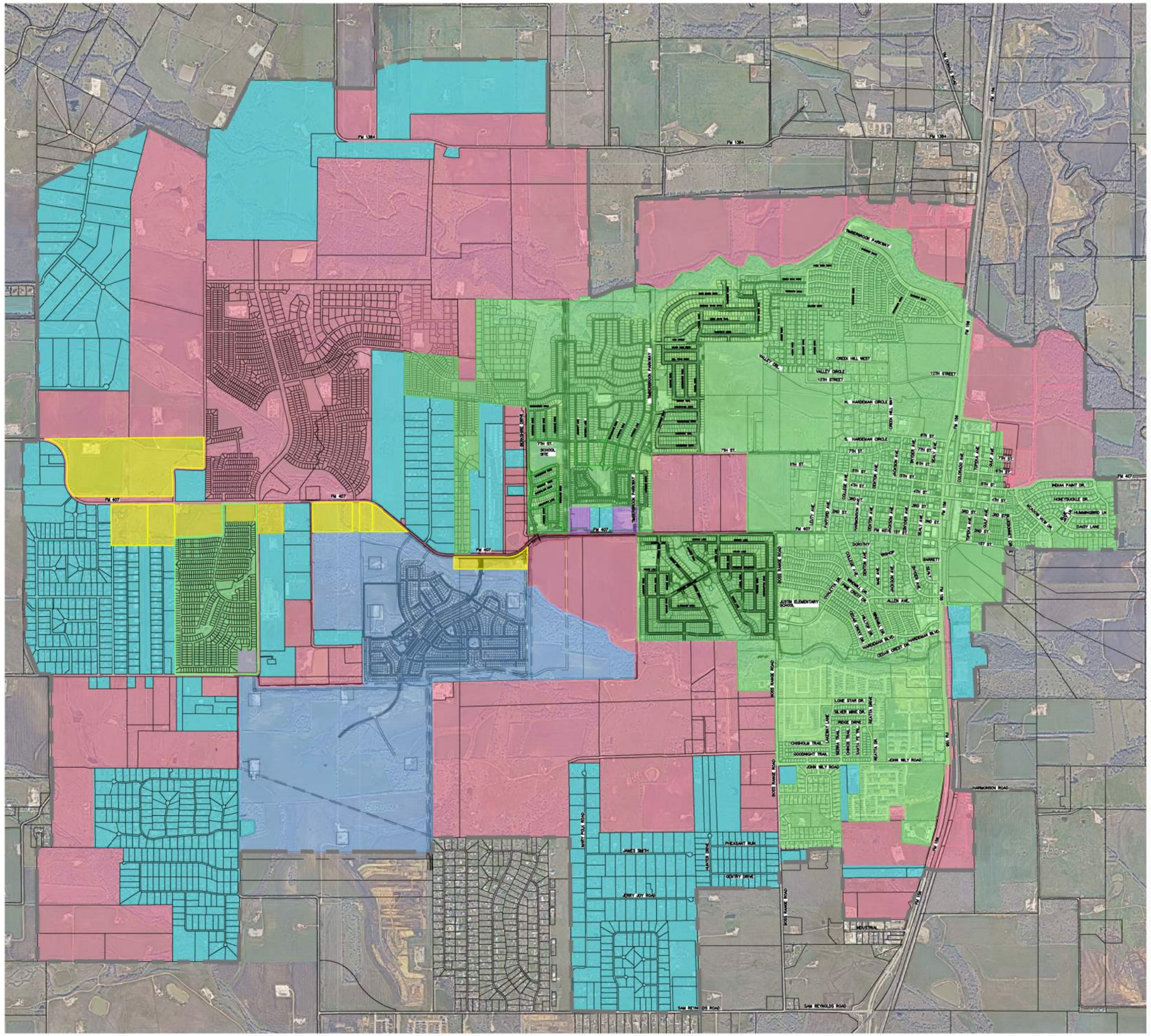
6 References

Pacheco Koch Consulting Engineers, INC. (2021). *City of Justin Water Master Plan.* Dallas, Texas.

The State of Texas. (n.d.). Title 30 - Environmental Quality. Texas Administrative Code.

Appendix A

Figures



LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - RESIDENTIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - COMMERCIAL
- TREELINE DEVELOPMENT
- EXTRATERRITORIAL JURISDICTION (ETJ) - NOT A PART

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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN WATER MASTER PLAN UPDATE

LAND USE PLAN

DATE:	June 24
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DESIGNER:	JR
CHECKED:	TJP
PROJECT NO.	-

FIGURE 1

SHEET 1 OF 1

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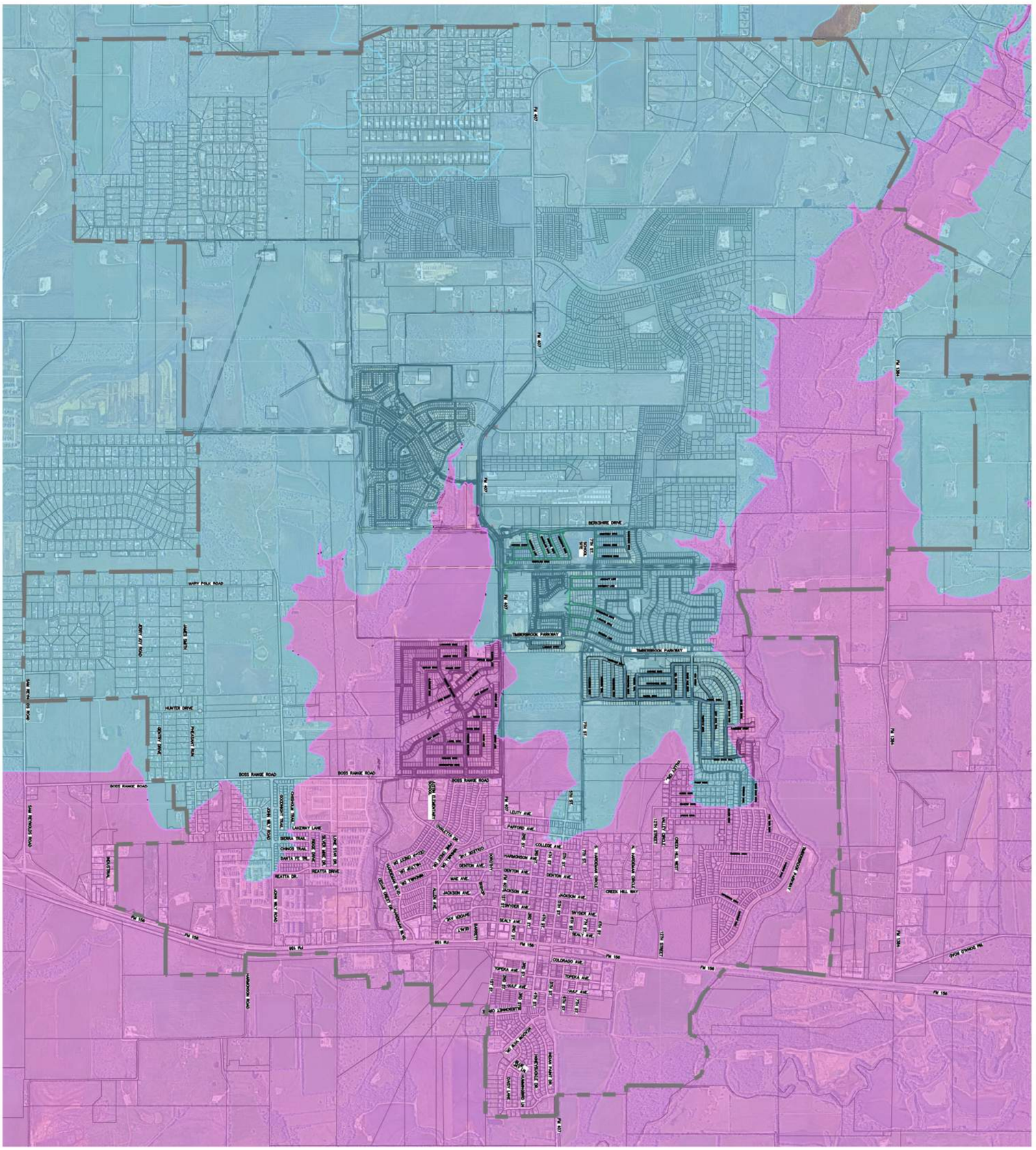

LEGEND

- PROJECT BOUNDARY
- 905 WATER PRESSURE ZONE
- 832 WATER PRESSURE ZONE

FIGURE 2
SHEET 1 OF 1

PROJECT NO.	-
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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN WATER MASTER PLAN UPDATE
WATER PRESSURE ZONE MAP

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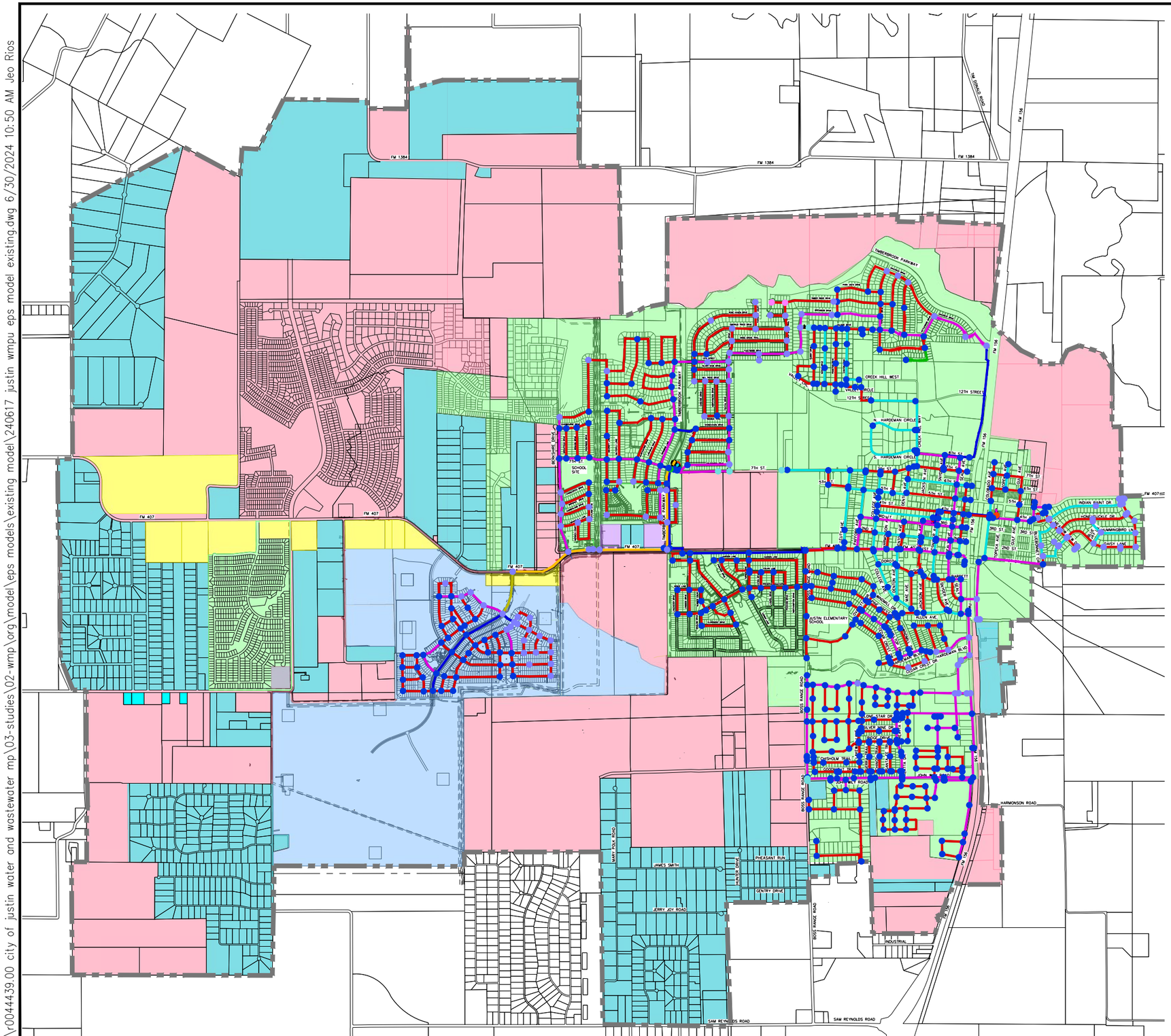

Color Coding Legend
Pipe: Diameter (in)

<=	6.0
<=	8.0
<=	10.0
<=	12.0
<=	16.0
<=	20.0
<=	24.0
<=	30.0
	Other

Color Coding Legend
Junction: Pressure (psi)

<=	34
<=	35
<=	40
<=	50
<=	80
<=	100
<=	120
	Other

LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - RESIDENTIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - COMMERCIAL
- TREELINE DEVELOPMENT
- EXTRATERRITORIAL JURISDICTION (ETJ) - NOT A PART

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CITY OF JUSTIN WATER MASTER PLAN UPDATE

EXISTING NOPE MAP

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PROJECT NO.	-

FIGURE 3
SHEET 1 OF 1

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Color Coding Legend
Pipe: Diameter (in)

<=	6.0
<=	8.0
<=	10.0
<=	12.0
<=	16.0
<=	20.0
<=	24.0
<=	30.0
	Other

Color Coding Legend
Junction: Satisfies Fire Flow Constraints?

=	True
=	False

LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - RESIDENTIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - COMMERCIAL
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EXISTING FIRE CHECK NOPE MAP

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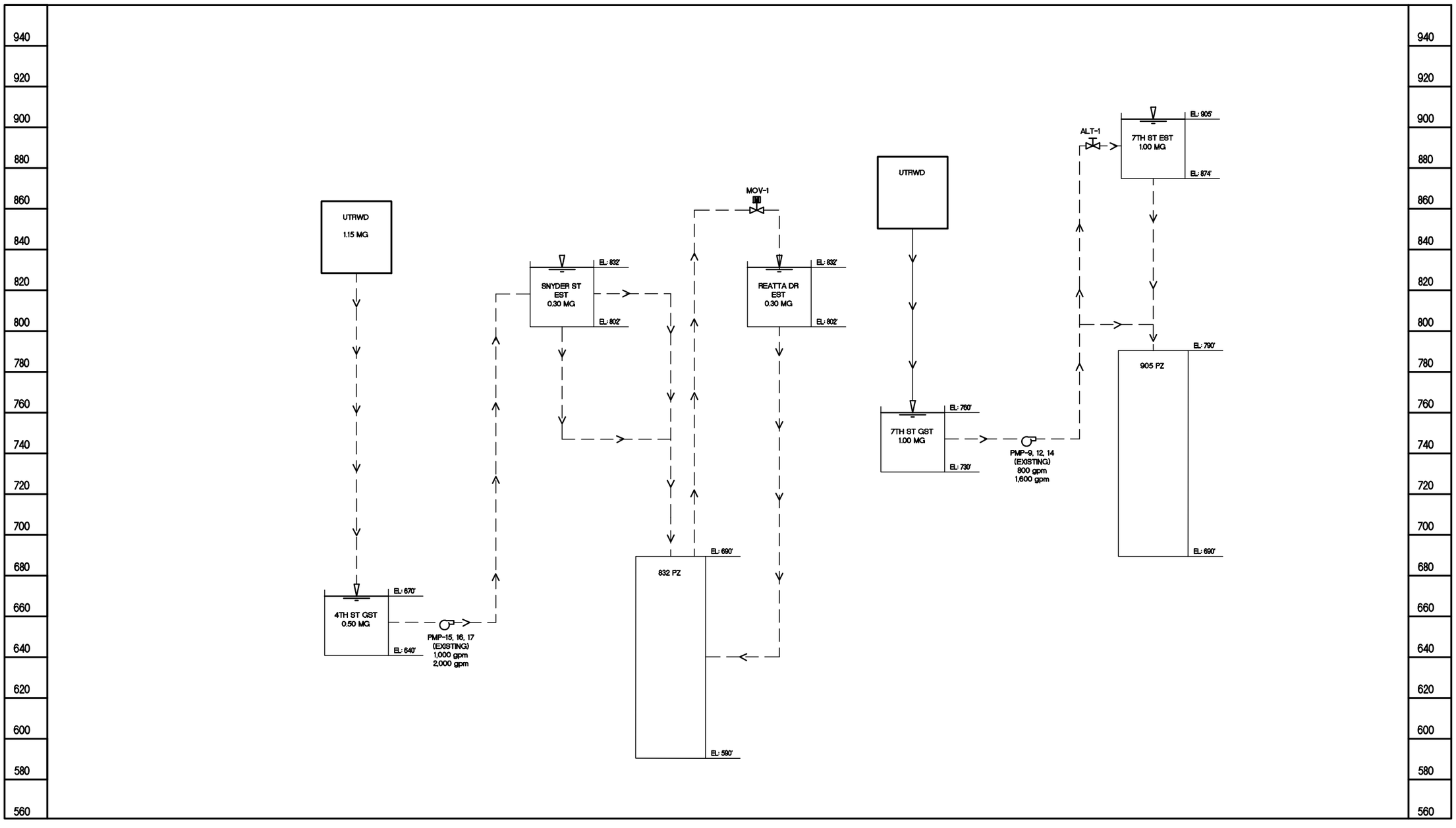
FIGURE 4
SHEET 1 OF 1

LEGEND

- RESERVOIR
- ALTITUDE VALVE
- PUMP
- MOTOR OPERATED VALVE
- SERVICED AREA

DASHED LINES REPRESENT EXISTING PIPES



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EXISTING WATER SYSTEM SCHEMATIC

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FIGURE 5
SHEET 1 OF 1

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Color Coding Legend
Pipe: Diameter (in)

<=	6.0
<=	8.0
<=	10.0
<=	12.0
<=	16.0
<=	20.0
<=	24.0
<=	30.0
	Other

Color Coding Legend
Junction: Pressure (psi)

<=	34
<=	35
<=	40
<=	50
<=	80
<=	100
<=	120
	Other

LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - RESIDENTIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - COMMERCIAL
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FUTURE NOPE MAP

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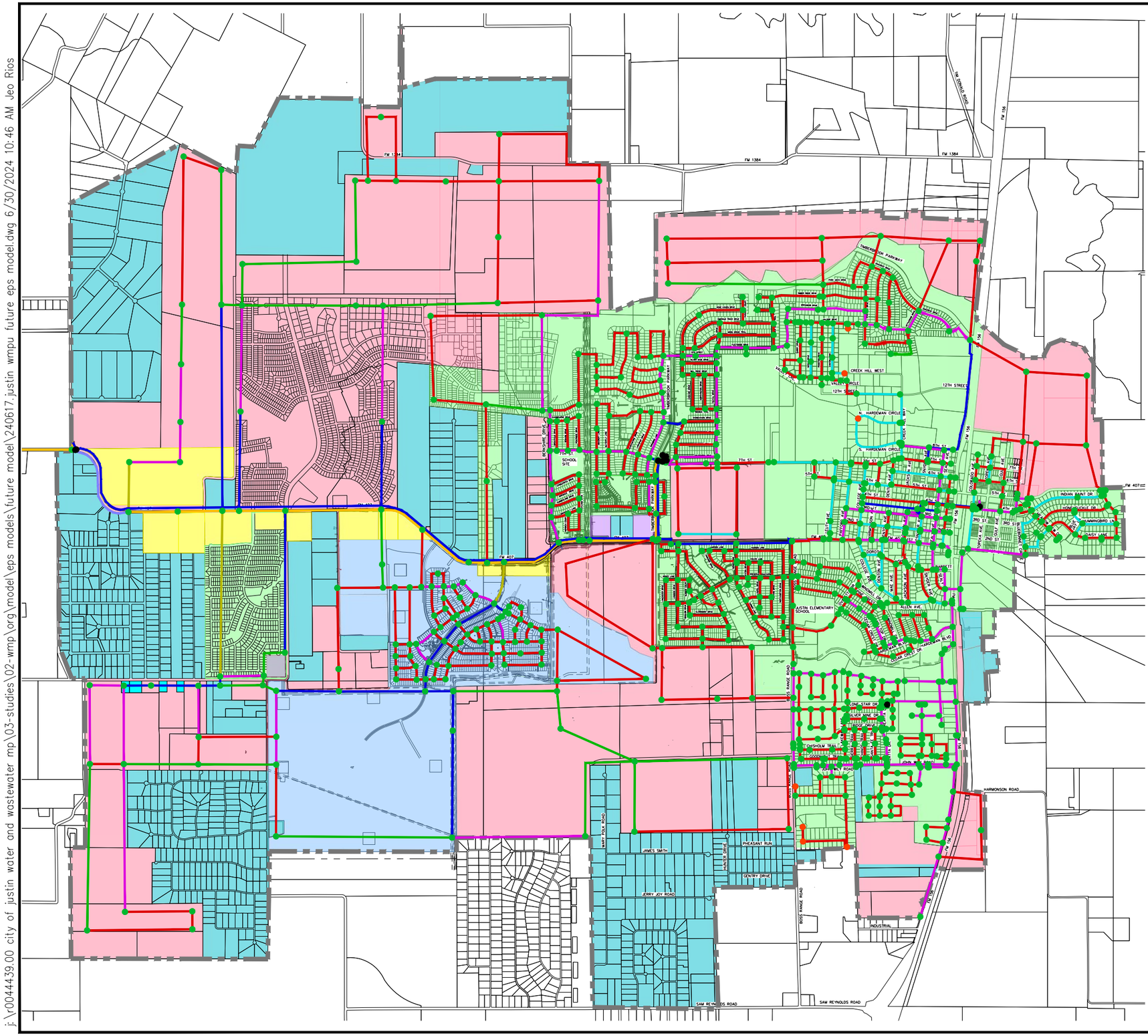
FIGURE 6
SHEET 1 OF 1



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FUTURE FIRE CHECK NOPE MAP

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FIGURE 7
SHEET 1 OF 1

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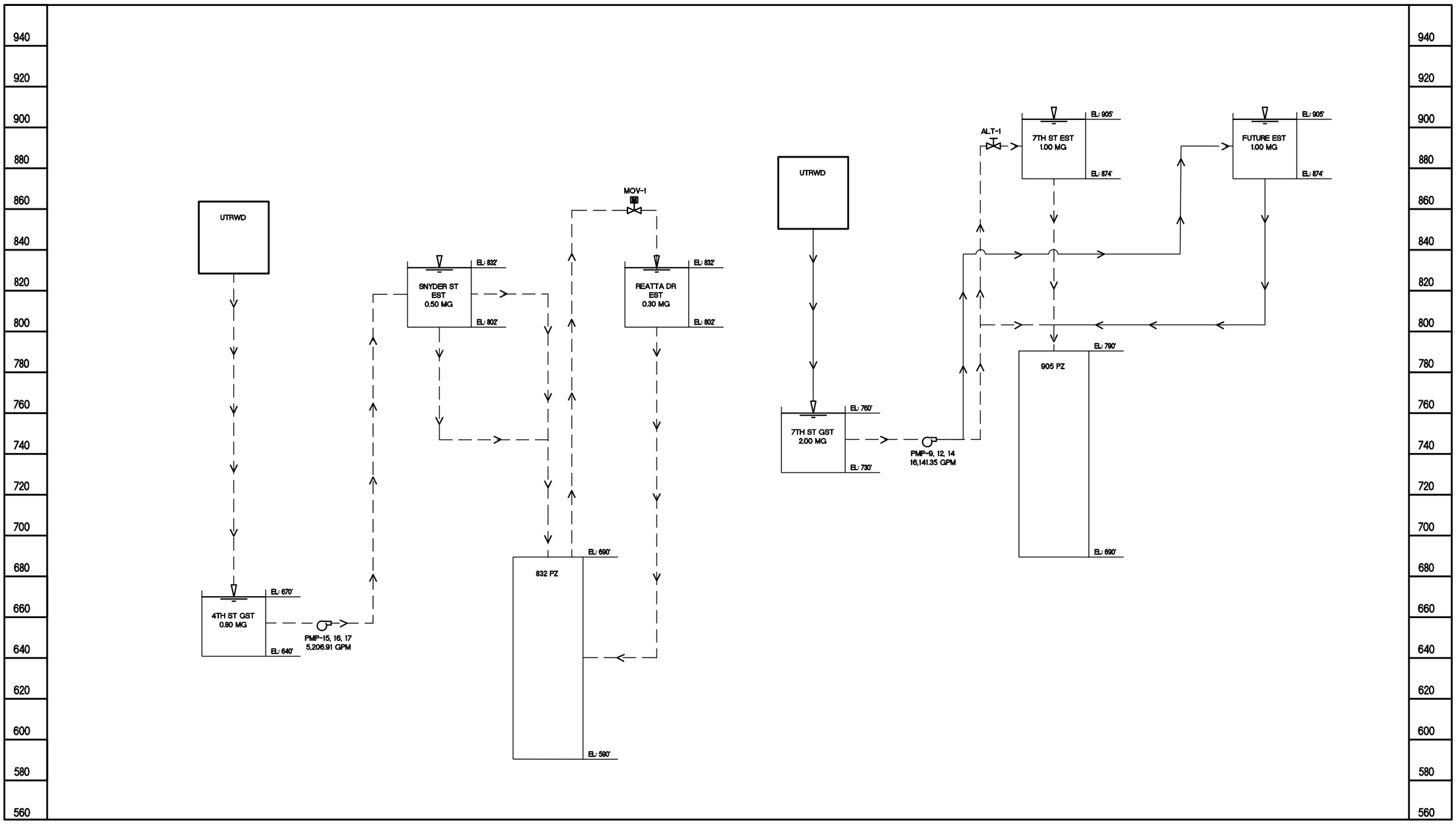
LEGEND

- RESERVOIR
- ALTITUDE VALVE
- PUMP
- MOTOR OPERATED VALVE
- SERVICED AREA

DASHED LINES REPRESENT EXISTING PIPES



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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN WATER MASTER PLAN UPDATE
FUTURE WATER SYSTEM SCHEMATIC

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FIGURE 8
SHEET 1 OF 1

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ORDINANCE NUMBER 786-24

AN ORDINANCE OF THE CITY OF JUSTIN, TEXAS, ADOPTING THE MASTER WATER AND SEWER PLAN; PROVIDING FOR THE INCORPORATION OF THE PLAN INTO THE CITY'S COMPREHENSIVE PLAN; PROVIDING FOR THE REPEAL OF CONFLICTING ORDINANCES; PROVIDING A SEVERABILITY CLAUSE; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, on May 2, 2023, the City of Justin entered into an agreement with Westwood Professional Services, Inc. to provide planning services for various critical initiatives, including the Unified Development Code (UDC), Master Planning, FM 156 Planning, Old Town Planning, Ad Valorem analysis, and an update to the Master Water and Sewer Plan; and

WHEREAS, the Master Water and Sewer Plan has been under development for several months and is now nearing completion, making it ready for adoption; and

WHEREAS, the City of Justin is experiencing significant growth, necessitating the adoption of a well-crafted Master Water and Sewer Plan to ensure that the water and sewer needs of residents and businesses are met as the community expands; and

WHEREAS, the Master Water and Sewer Plan provides a strategic framework for the development, maintenance, and expansion of the city's water and sewer infrastructure, ensuring reliability, efficiency, and capacity to support future growth; and

WHEREAS, the Master Water and Sewer Plan is based on the Comprehensive Plan, which was adopted by the City Council on March 28, 2023, and serves as a blueprint for Justin's long-term growth and development; and

WHEREAS, the adoption of the Master Water and Sewer Plan is essential for coordinating and managing the city's growth in a sustainable and orderly manner

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF JUSTIN, TEXAS:

SECTION 1. ADOPTION OF THE MASTER WATER AND SEWER PLAN

The City Council hereby adopts the Master Water and Sewer Plan, as prepared by Westwood Professional Services, Inc., and attached hereto as "Exhibit A", to be utilized as a guiding document for the development, maintenance, and expansion of the city's water and sewer infrastructure.

SECTION 2. REPEAL OF CONFLICTING ORDINANCES

All ordinances, resolutions, or parts thereof in conflict with this Ordinance are hereby repealed to the extent of such conflict.

SECTION 3. SEVERABILITY CLAUSE

If any provision of this Ordinance or the application thereof to any person or circumstance shall be held to be invalid or unconstitutional by a court of competent jurisdiction, such invalidity or unconstitutionality shall not affect the remaining provisions or applications of this Ordinance, which can be given effect without the invalid or unconstitutional provision or application.

SECTION 4. EFFECTIVE DATE

This Ordinance shall take effect immediately upon its passage and publication as required by law.

PASSED ON THE FIRST READING BY THE CITY COUNCIL ON THE 22ND DAY OF AUGUST 2024

PASSED ON THE SECOND READING BY THE CITY COUNCIL ON THE 26th DAY OF SEPTEMBER 2024

_____
James Clark, Mayor

ATTEST:

_____
Amy Piukana, City Secretary

Approved as to form:

_____
City Attorney

WASTEWATER MASTER PLAN

CITY OF JUSTIN, TEXAS

JULY 2024

PREPARED FOR:

City of Justin, Texas, Texas

PREPARED BY:

Westwood

Westwood

City of Justin, Texas

Wastewater Masterplan

City of Justin, Texas

Prepared For:

City of Justin, Texas, Texas

Prepared By:

Westwood Professional Services
5725 W. Badura Avenue, Suite 100
Las Vegas, NV 89118
Phone: (702) 284-5300

Project Number: R0044439.00
Date: July 2024

Travis Poechmann, P.E.
TX Professional Engineer No. 148620

Assisted by: Abel Garcia Morales, E.I.

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Appendix B SewerGems Model Output Tables

1 Introduction

1.1 Project Overview

This report provides a wastewater master plan for the existing and future infrastructure facilities for the City of Justin, Texas including Extraterritorial Jurisdiction (ETJ) acquired in the last few years.

An existing wastewater model originally from 2013 was used as the base model. The model was updated to show current construction/planned development. The assumed existing infrastructure was determined to be infrastructure near the end of the design stage and close to construction/plans approval. The future infrastructure was considered as full buildout of City of Justin including ETJ. See Figure 1 – Location Map, for the project location in Appendix A.

The information presented in this report is at a planning level only and should not be considered the final design of the proposed wastewater system. Details of the proposed infrastructure facilities will require refinement as the detailed parcel layouts and roadway plans are developed.

1.2 Land Use to Wastewater System Analysis

Land Use to Wastewater System analysis assumptions are listed below. See Figure 2 – Land Use Plan in Appendix A.

Existing,

- Existing infrastructure used existing land uses while areas with submitted/approved plans used the planned land uses.
- Existing Homes within ETJ are assumed to be on septic and it is assumed that they will not be connected to the sewer infrastructure in the future.
- Existing lift stations discharge flow rates are assumed to match the basin peak flow for modeling purposes.

Future Areas,

- The assumed land uses for future development were either single family residential (SFR) or commercial. Future single family was assumed to have a density of 5 Single Family Residential units per acre. Future commercial parcels used a sewer contribution rate of 1,500 gpd/acre.
- Parcels directly adjacent to the FM 401 were assumed future commercial and all other land was assumed SFR.
- Future lift stations discharge flow rates are assumed to match the basin peak flow for modeling purposes.

The model was updated using submitted development plans, current NearMap aerials, and City of Justin GIS accordingly.

1.3 Operational Requirements

The average flow rate and the peak flow rate are used conjunctively to adequately design and size the wastewater collection system. A design criterion was established by evaluating adjacent city design standards, existing usage data from the City of Justin, and Texas administrative code. Assumed design requirements for gravity sewers collection system is presented in Tables 1.2.

TABLE 1.1: ASSUMED GRAVITY SEWER DESIGN CRITERIA

Design Parameter	Requirement
Minimum Gravity Pipe Diameter (inches)	6
Minimum Design Pipe Slope (ft/ft)	0.003 (Future) 0.0010 (Existing)
Minimum Velocity (fps)	2.0 @ 50% full
Maximum Depth to Diameter (d/D) Ratio	Full Pipe Flow [(1)]
Mannings Friction Coefficient	N = 0.013
Peaking Factor	4

Notes:

1) A d/D ratio of 0.96 or 96% was used to be conservative and allow time to execute design and construction of improvements.

2 Wastewater Contributions

2.1 Wastewater Contribution Rates

Wastewater contribution flow rate evaluation used treatment plan data records. Table 2.1 summarizes the applicable wastewater contribution rates used.

TABLE 2.1: CITY OF JUSTIN WASTEWATER CONTRIBUTION RATES

Land Use	Contribution Rates (gpd/Unit)	Contribution Rates (gpd/Acre)
Single-Family Residential (SFR)	220	1,100(1)
Multi-Family Residential (MFR)	180	---
Commercial/Non-Residential	---	1,500

Notes:
1) Future model assumes a density of 5 units per acre, thus 1,100 gpd/acre.

2.2 Existing Wastewater System Basin Contributions

The existing wastewater system contains multiple smaller basins connected to the existing City of Justin wastewater treatment plant via lift stations. Table 2.2 summarizes the average day flow and peak flow at each basin.

TABLE 2.2: EXISTING WASTEWATER SYSTEM BASIN CONTRIBUTIONS

Basin	Average Day Weather Flow (MGD)	Peak Flow (MGD)
Meadowlands Lift Station	0.0462	0.1849
12th Street LS (Private)	0.0306	0.1223
12th Street LS (Downtown)	0.0395	0.1579
Timberbrooks LS	0.2776	1.1106
City of Justin Treatment Plant	2.1261	3.7844
Total Flow	**2.5200**	**5.3601**

2.3 Future Wastewater System Basin Contributions

City of Justin sewer is planned to connect to the Trinity River Authority of Texas Denton Creek Regional Wastewater System. The future wastewater system model contains multiple smaller basins connected to two outfalls: the existing City of Justin wastewater treatment plant area and Denton Creek. These modeled outfalls will eventually connect to the Denton Creek Regional Wastewater System southeast of City of Justin. Existing topography analysis identified future sewer basins within ETJ that are assumed to connect

to the modeled outfalls via lift stations. Table 2.3 and Table 2.4 summarizes the average day flow and peak flow at each basin.

TABLE 2.3: FUTURE JUSTIN TREATMENT PLANT WASTEWATER SYSTEM BASIN CONTRIBUTIONS

Basin	Average Day Weather Flow (MGD)	Peak Flow (MGD)
Meadowlands Lift Station	0.0462	0.1849
12th Street LS (Private)	0.0306	0.1223
12th Street LS (Downtown)	0.0395	0.1579
Timberbrooks LS	0.3906	1.2235
Southwest ETJ LS	0.3933	1.5732
City of Justin Treatment Plant	5.0754	14.3371
Total Flow	**5.9756**	**17.5989**

TABLE 2.4: FUTURE DENTON CREEK OUTFALL WASTEWATER SYSTEM BASIN CONTRIBUTIONS

Basin	Average Day Weather Flow (MGD)	Peak Flow (MGD)
North ETJ LS	1.3029	5.2116
Denton Creek SS	0.2328	0.9312
Total Flow	**1.5357**	**6.1428**

3 Wastewater Collection System Model

3.1 Model Physical Attributes Development

The proposed City of Justin, Texas sewer collector model elevations, as presented in Figures 4 and 5, are based on existing grading and an existing wastewater model. Future manhole rim elevation was placed at existing grade surface. The pipe inverts were set at a minimum of seven feet below the rim elevation, unless the minimum slope requirements (Section 1.4 of this report) were not met, then lower inverts were required. Parcels are assumed to flow towards the main streets regardless of existing grade flow patterns. Parcels with submitted plans used the available plan manhole elevations. Final manhole invert elevations will be finalized during the improvement plans design for future buildout parcels.

Models of the proposed sewer lines were constructed using Bentley`s SewerGEMS. SewerGEMS integrates the slopes, pipe sizes, flows, Manning`s coefficient, lengths, and peaking factors to produce accurate sewer calculation results. SewerGEMS datasheets for Pipes, Manholes, and Outfalls are included the Appendix B.

3.2 Model Evaluation

The pipe segments were analyzed using peak dry weather flow in the existing conditions and future buildout conditions. All pipe segments with a depth to diameter (d/D) ratio greater than 0.96 were identified in this flow condition. Then, in a new model scenario, pipe segments identified over the d/D threshold set increased one pipe size at a time until the d/D in the new pipe met 0.96 d/D or less. In conditions where an isolated pipe segment was upsized all downstream pipe sizes were also increased to match until connecting to an existing matching pipe size or larger. This iterative process continued until all pipes met the requirements in all scenarios. Models showing all scenarios evaluated and recommended improvements are found in Figures 3 thru 10 in Appendix A.

3.3 Model Output

The manhole and pipe reports for average day flow and peak wet weather flow conditions in existing and future buildout are presented in Appendix B. The data can be compared with the operational requirements presented in Section 1.4 “Operational Requirements” of this report. The scenarios evaluated are listed below.

4 Existing Buildout Recommended Improvements

The existing buildout model update identified improvements that are recommended with the current wastewater collection system.

The 12th Street LS and Timberbrooks LS flows ultimately get discharged into MH-170. Full details of design flow capacity of the Timberbrooks LS are unknown. The peak flow from the Timberbrooks LS basin was used as the design flow for the LS. Based on these assumptions it is recommended to upsize approximately 2,730 LF of existing 12-inch sewer from MH-170 to MH-196 to 14-inch sewer prior to full buildout of the Timberbrooks LS basin. See Table 4.1 for summary.

TABLE 4.1: EXISTING BUILDOUT WASTEWATER MODEL IMPROVEMENTS

Pipe	Upstream MH	Downstream MH	Slope (ft/ft)	Length	Ex. Diameter (Inches)	Proposed Minimum Diameter (Inches)
CO-170	162	163	0.004	334.4	12	14
CO-189	163	153	0.005	333.0	12	14
CO-187	153	164	0.003	162.2	12	14
CO-177	164	158	0.003	187.5	12	14
CO-175	158	165	0.002	200.7	12	14
CO-166	165	166	0.003	153.0	12	14
CO-164	166	167	0.002	167.0	12	14
CO-162	167	168	0.002	367.2	12	14
CO-150	168	173	0.004	459.3	12	14
CO-148	173	188	0.005	365.3	12	14

Please note that the model is preliminary. Physical properties from the previous model were used for existing areas, submitted plans were used for areas in design or construction, and existing grade was used to assume physical attributes for future areas. True lengths and slopes can be surveyed to model more accurately.

It is recommended that the indicated pipes be upsized once an existing pipe flow depth of 90% is reached at the flattest pipe segment slope. This would allow time for design and construction of the improvements before full pipe flow is met in the gravity sewer collection system. Regular inspections in the existing system (old town) are recommended to avoid obstructions of flow during peak flow conditions. Table 4.2 summarizes the pipe flow capacity calculations for various slopes at 90% full. Calculations prepared used Bentley Flowmaster Connect Edition Update 3.

TABLE 4.2: PIPE FLOW CAPACITY CALCULATIONS

Diameter (Inches)	Slope (ft/ft)	Flow (MGD)	D/d (%)
12	0.002	1.0975	90
12	0.003	1.344000	90
12	0.004	1.552000	90
12	0.005	1.735000	90

5 Future Buildout Recommended Improvements

The future buildout model update identified improvements that are recommended within the current wastewater collection system.

At future buildout, it is recommended to upsize sewer along FM 407 near old town, College Ave, Allen Ave, Pafford Ave, a segment in the preserve phase two, and the CP1 to CP2 sewer near the city of Justin treatment plant. See Table 5.1 for summary.

TABLE 5.1: FUTURE BUILDOUT WASTEWATER MODEL IMPROVEMENTS

Pipe	Upstream MH	Downstream MH	Slope (ft/ft)	Length	Ex. Diameter (Inches)	Proposed Minimum Diameter (Inches)
CO-509	472	176	0.006	1,604.9	8	10
CO-140	176	177	0.003	368.4	8	10
CO-139	177	178	0.006	336.3	8	10
CO-138	178	179	0.026	38.0	8	10
CO-321	85	177	0.008	890.7	8	10
CO-320	86	179	0.005	760.4	6	8
CO-137	179	180	0.010	388.6	8	10
CO-136	180	181	0.013	687.9	8	10
CO-135	181	182	0.007	287.4	8	12
CO-133	182	183	0.003	389.0	8	12
CO-132	183	184	0.005	189.0	8	12
CO-131	184	185	0.014	217.1	8	12
CO-129	185	186	0.008	598.4	8	12
CO-128	186	187	0.047	0.047	8	12
CO-127	187	188	0.006	137.1	8	12
CO-449	21	358	0.003	147.3	12	15
CO-450	359	202	0.003	347.3	12	15
CO-358	426	427	0.003	294.4	30	36
CO-359	427	428	0.003	300.8	30	36
CO-361	428	429	0.004	212.1	30	36
CO-362	429	430	0.002	203.9	30	36
CO-364	430	431	0.002	84.1	30	36
CO-365	431	432	0.001	317.5	30	36
CO-368	432	433	0.001	556.6	30	36
CO-369	433	Justin Treatment Plant Outfall	0.034	189.0	30	36

Please note that the model is preliminary. Physical properties from the previous model were used for existing areas, submitted plans were used for areas in design or construction, and existing grade was used to assume physical attributes for future areas. True lengths and slopes can be surveyed to model more accurately.

Table 4.2 summarizes the pipe flow capacity calculations for various slopes at 90% full. Calculations prepared used Bentley Flowmaster Connect Edition Update 3.

TABLE 5.2: PIPE FLOW CAPACITY CALCULATIONS

Diameter (Inches)	Slope (ft/ft)	Flow (MGD)	D/d (%)
6	0.005	0.2733	90
8	0.003	0.4560	90
8	0.004	0.5265	90
8	0.005	0.5887	90
12	0.002	1.0975	90
12	0.003	1.3440	90
12	0.004	1.5520	90
12	0.005	1.7350	90
30	0.001	8.9360	90
30	0.002	12.6370	90
30	0.003	15.4780	90

6 Conclusions & Recommendations

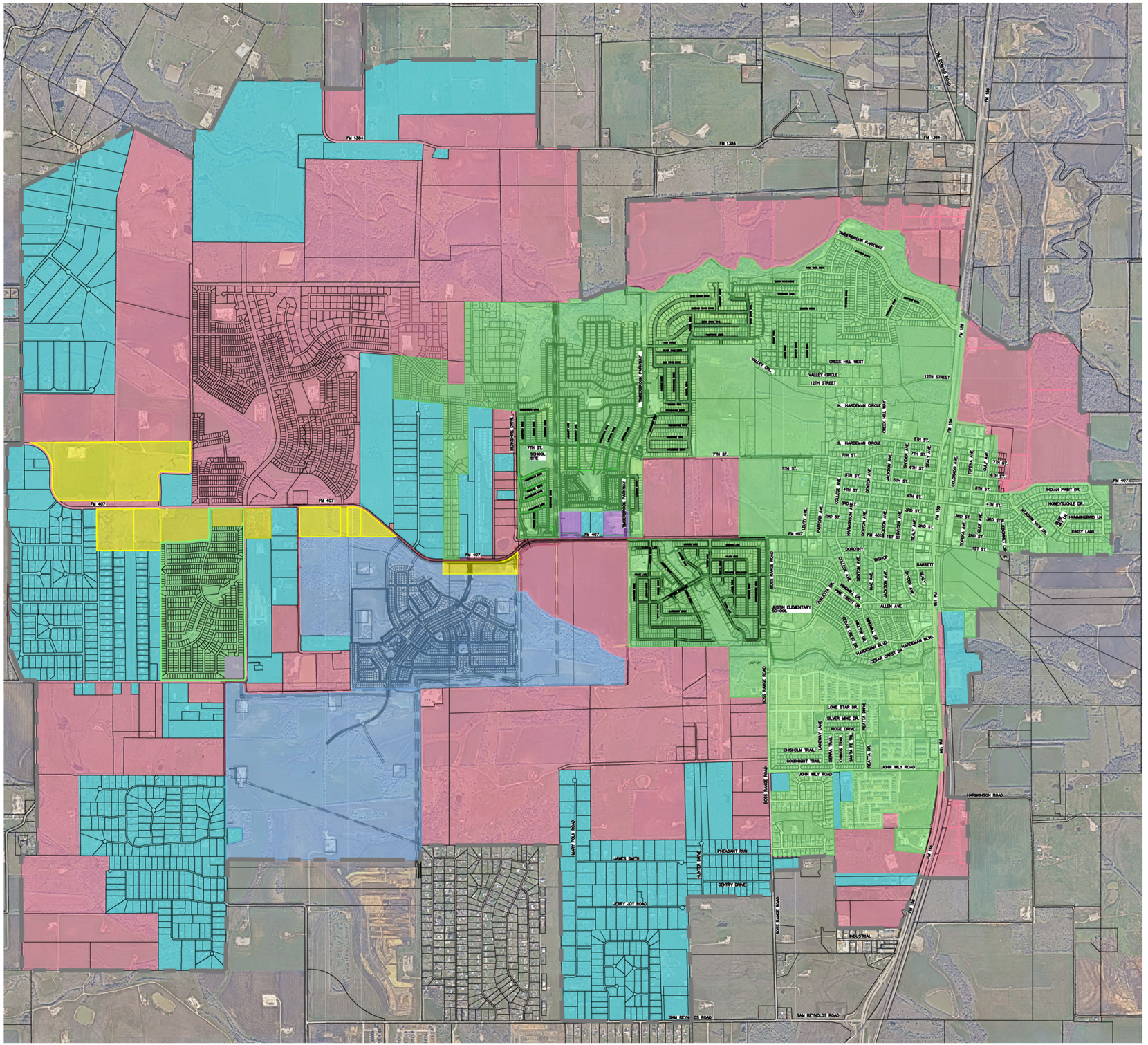
The wastewater infrastructure for the City of Justin, Texas development has been planned to meet the parameters presented in Section 1. The design and construction of the proposed wastewater infrastructure shall generally conform to the recommendations of this master plan. If flatter slopes are proposed during design the normal depth d/D shall be reevaluated to satisfy operational requirements from Section 1.3. If any further changes to the land use plan in Figure 1 occur, including but not limited to changes in parcel acreage, densities, and/or sewer routing, the wastewater master plan shall be re-evaluated to verify whether revisions to the infrastructure master plan will need to be made.

7 References

1. *The State of Texas. (n.d) Title 30 – Environmental Quality, Texas Administrative Code.*

Appendix A

Figures



LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - RESIDENTIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - COMMERCIAL
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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN WASTE WATER MASTER PLAN UPDATE

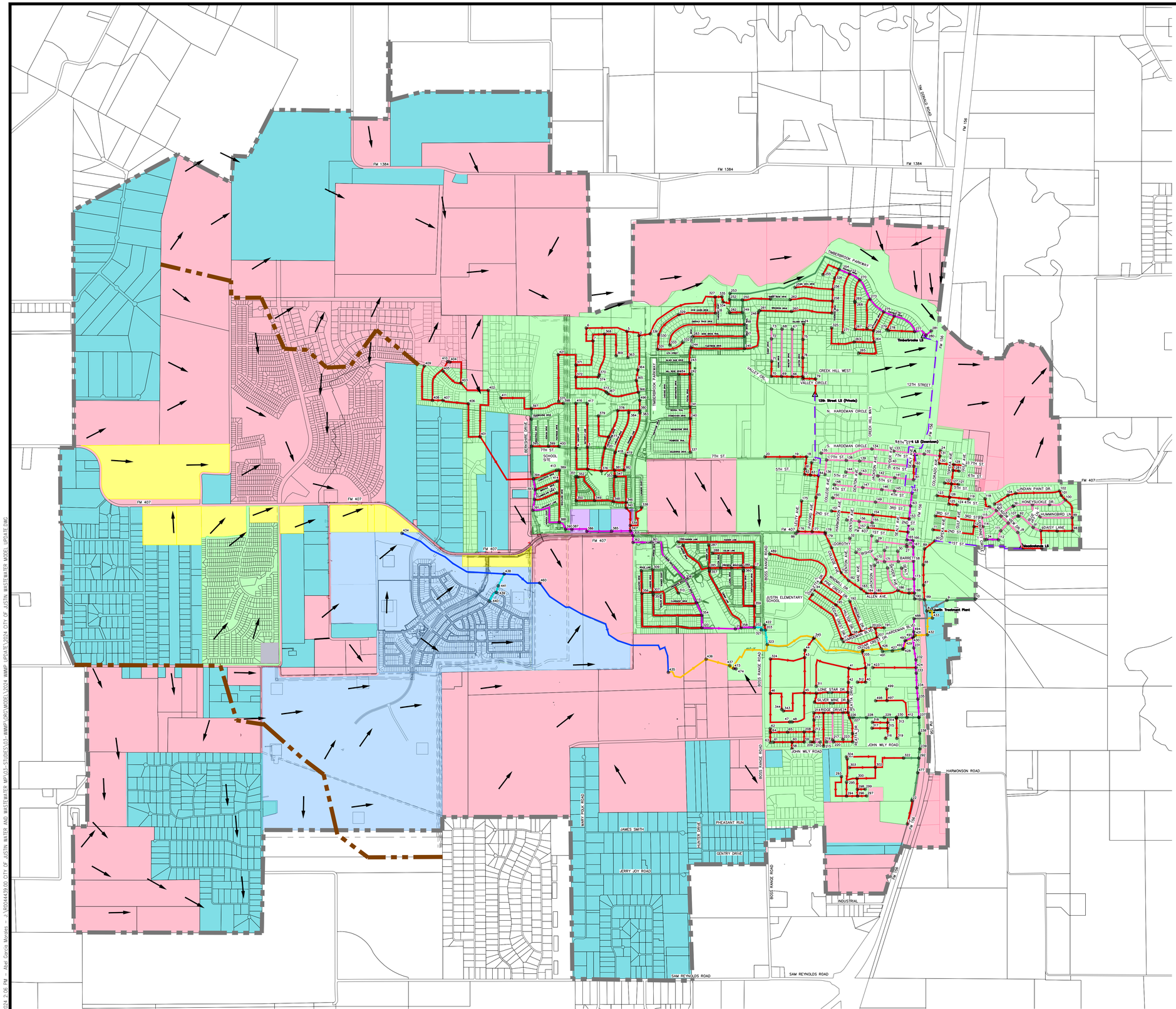
LAND USE PLAN

DATE:	July 24
DRAFTER:	AGM
DESIGNER:	AGM
CHECKED:	TJP
PROJECT NO.	-

FIGURE 1

SHEET 1 OF 1

j:\0044439.00 city of justin water and wastewater mp\03-studies\04-cad\xref\city of justin - water pressure zones.dwg 7/10/2024 10:06 AM Abel Garcia Morales



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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN

CITY OF JUSTIN WASTEWATER MASTERPLAN UPDATE
EXISTING PEAK FLOW - SEWER MAP

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R0044439.00

FIGURE 2
SHEET 1 OF 1

2/8/2024 2:06 PM - Abel Garcia Morales - J:\R0044439.00 CITY OF JUSTIN WATER AND WASTEWATER MP\03-STUDIES\05-WWMP\CAD\MODELS\2024 WWMP UPDATE\2024 CITY OF JUSTIN WASTEWATER MODEL UPDATE.DWG

Color Coding Legend
Conduit: Depth/Rise (%)

<= 96.0
Other

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CITY OF JUSTIN

CITY OF JUSTIN WASTEWATER MASTERPLAN UPDATE
EXISTING PEAK FLOW - DEPTH TO DIAMETER RATIO MAP

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R0044439.00

FIGURE 3
SHEET 1 OF 1

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- SEWER BASIN BOUNDARY

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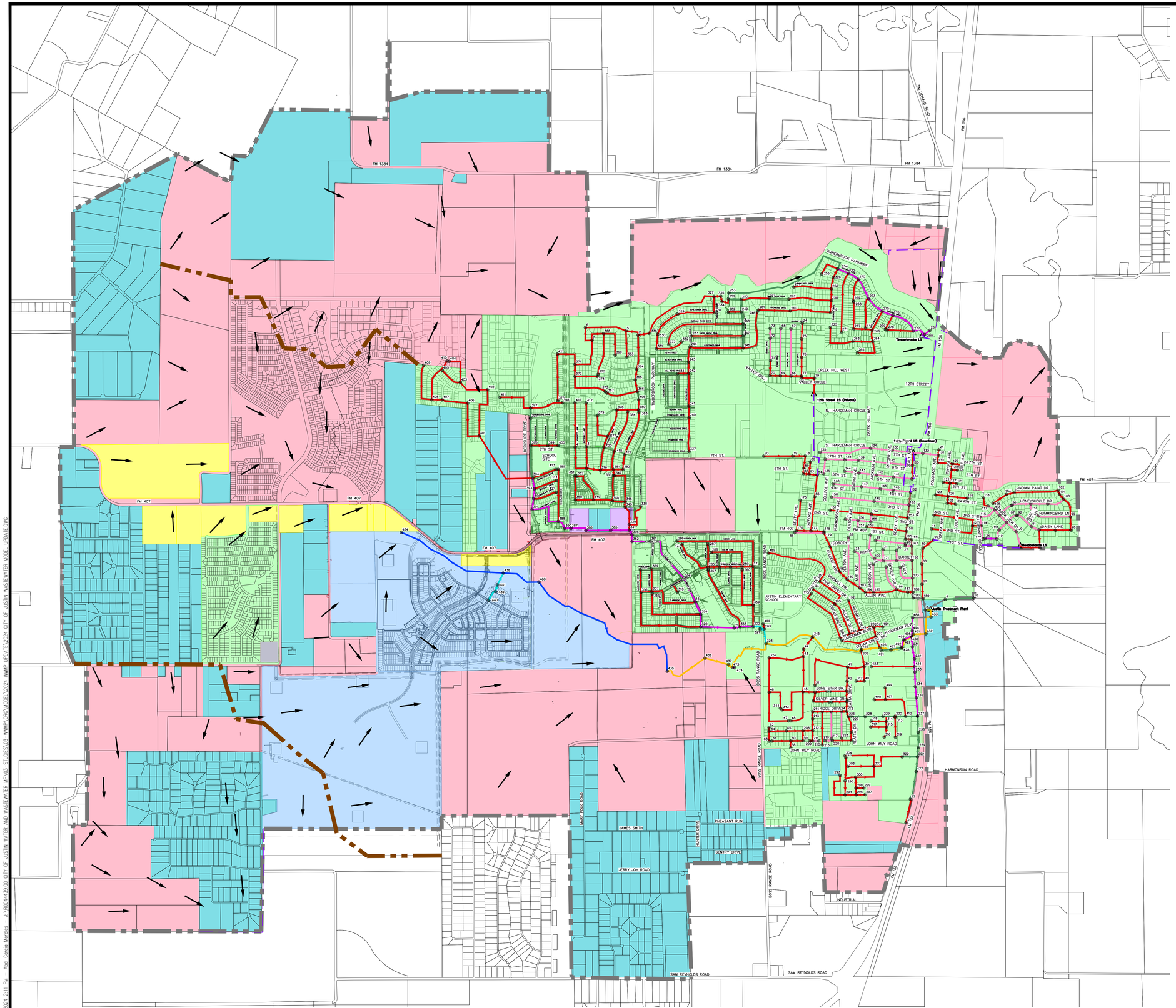

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CITY OF JUSTIN WASTEWATER MASTERPLAN UPDATE
EXISTING PEAK FLOW - SEWER MAP (IMPROVEMENTS)

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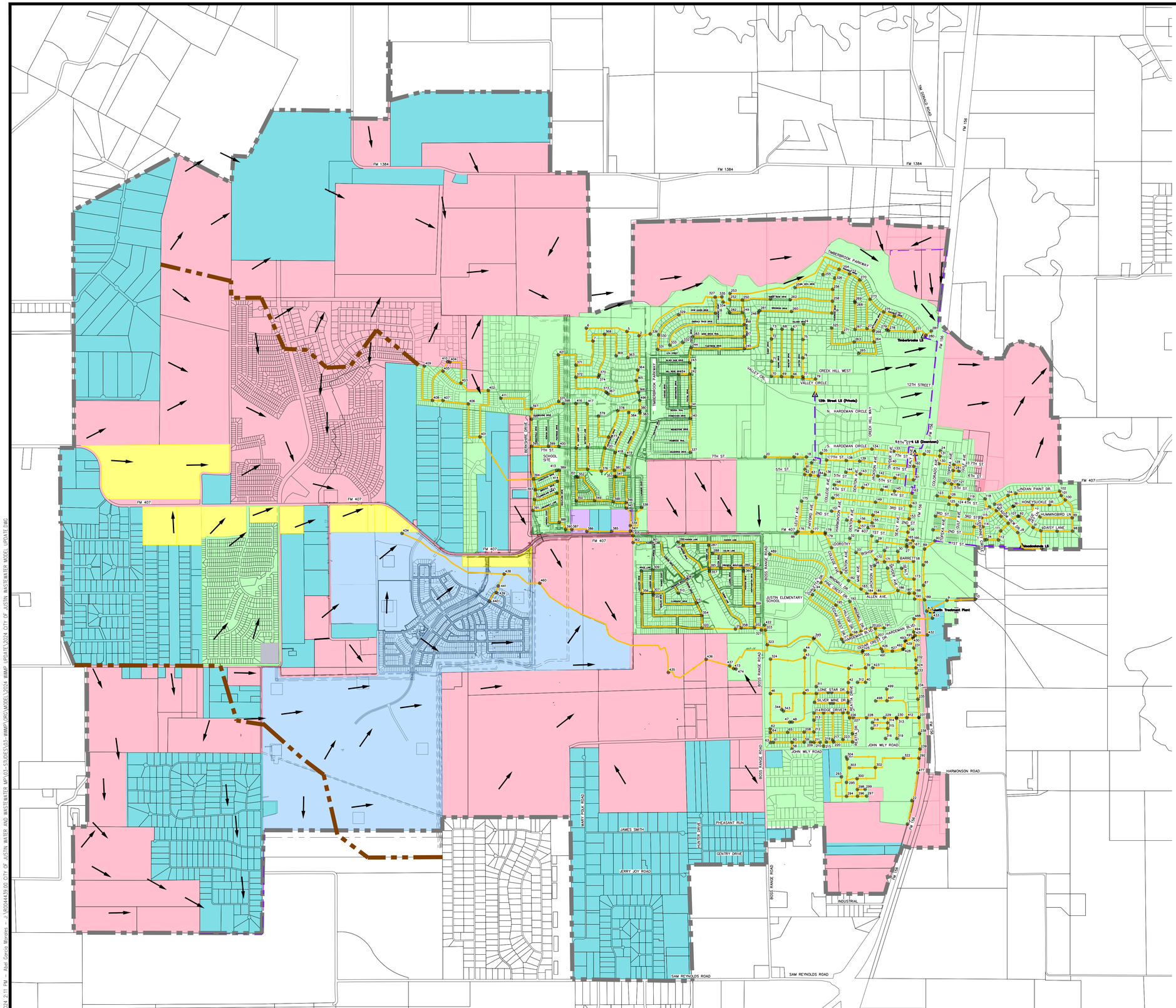
PROJECT NO.
R0044439.00

FIGURE 4
SHEET 1 OF 1

2/8/2024 2:11 PM Abel Garcia Morales J:\R0044439.00 CITY OF JUSTIN WATER AND WASTEWATER MP\03-STUDIES\03-WWMP GRCV MODELS\2024 WWMP UPDATE\2024 CITY OF JUSTIN WASTEWATER MODEL UPDATE.dwg



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CITY OF JUSTIN WASTEWATER MASTERPLAN UPDATE

EXISTING PEAK FLOW - DEPTH TO DIAMETER RATIO MAP (IMPROVEMENTS)

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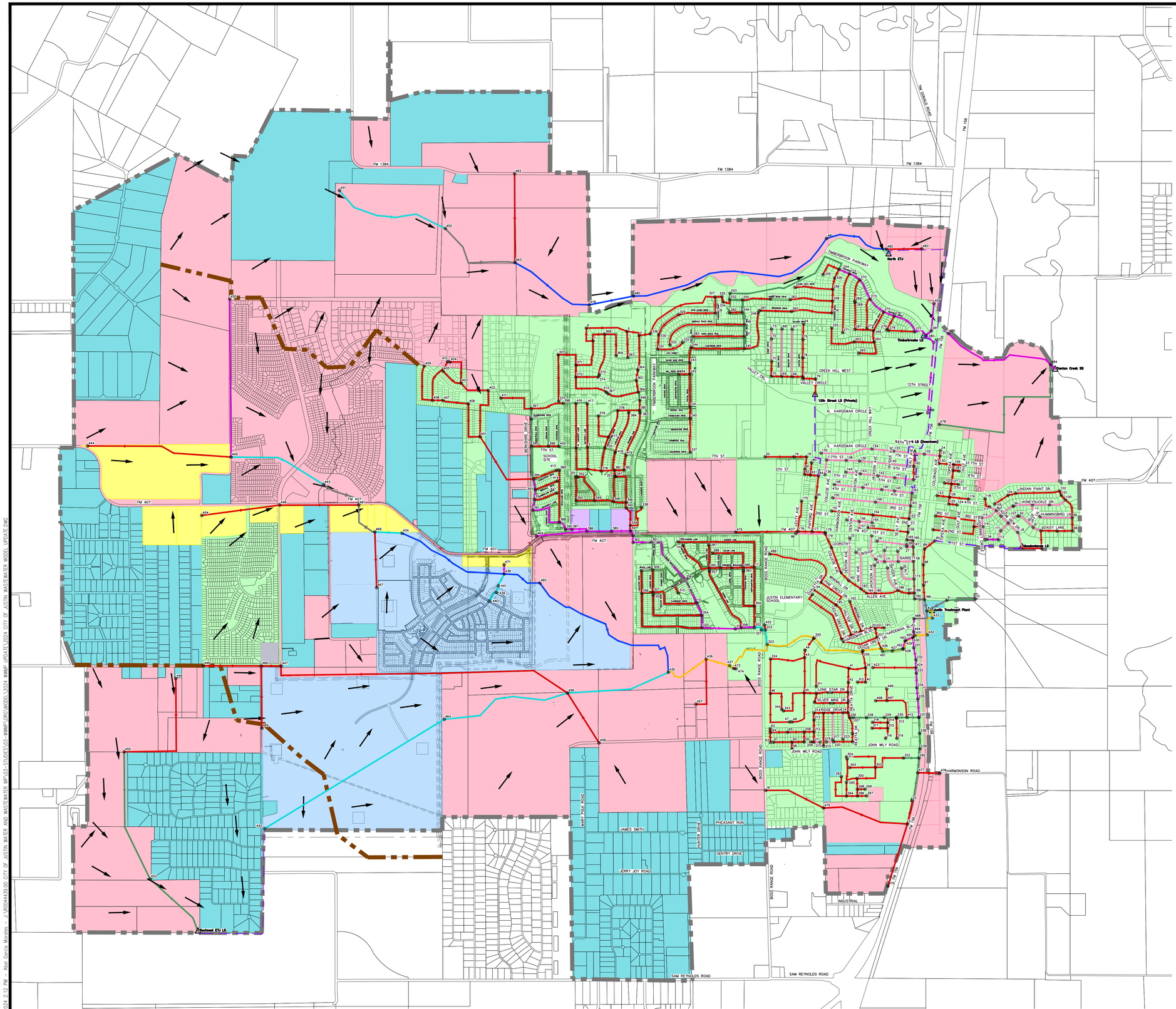
FIGURE 5
SHEET 1 OF 1

7/26/2024 2:11 PM - Axel Garcia Morales - J:\R0044439.00 CITY OF JUSTIN WATER AND WASTEWATER MP\03-STUDIES\03-WWMP\CAD\MODELV2024 WWMP UPDATE\2024 CITY OF JUSTIN WASTEWATER MODEL UPDATE.DWG



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FUTURE PEAK FLOW - SEWER MAP

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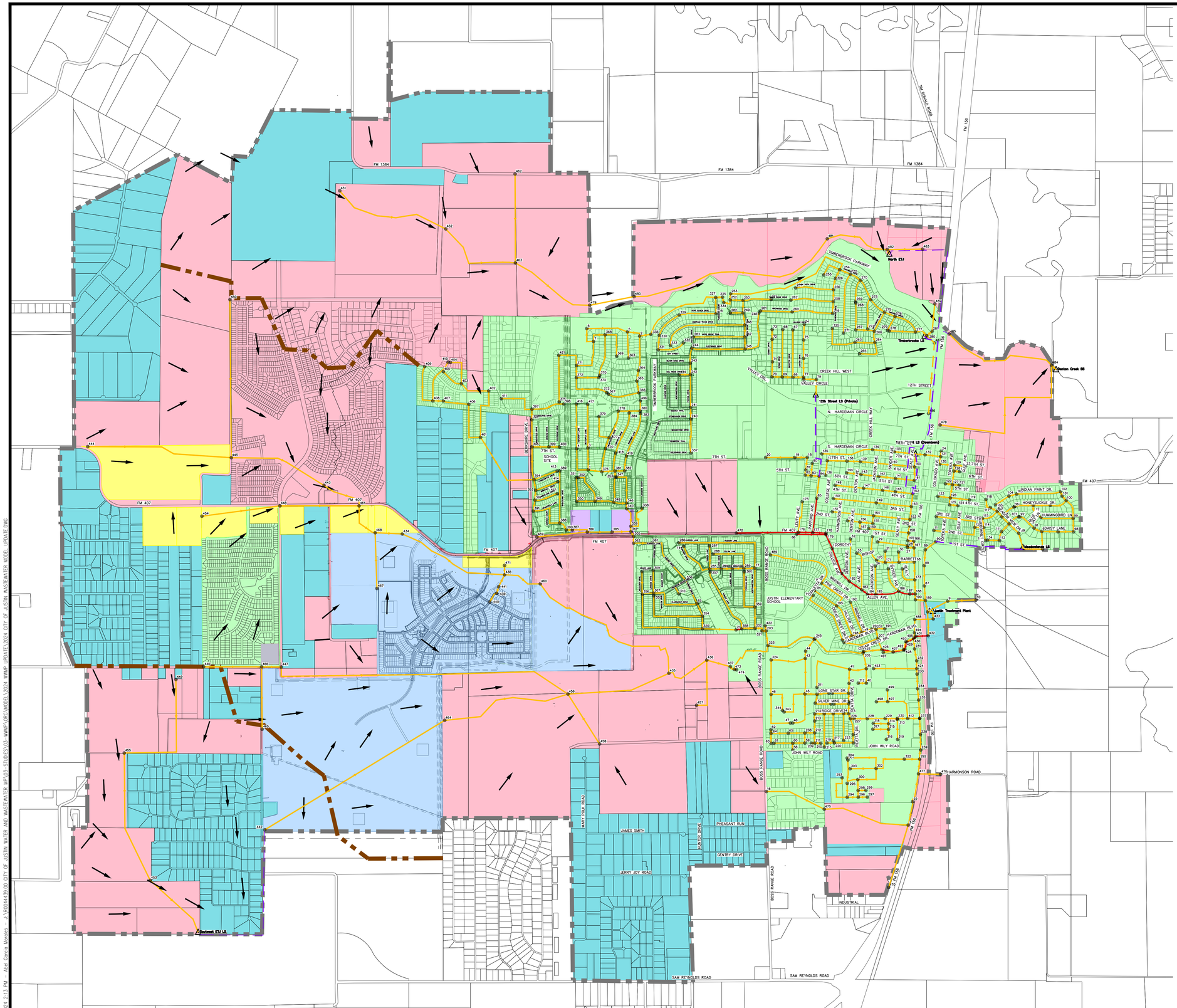
PROJECT NO. R0044439.00

FIGURE 6
SHEET 1 OF 1

2/8/2024 2:12 PM - Abel Garcia Morales - J:\R0044439.00 CITY OF JUSTIN WATER AND WASTEWATER MP\03-STUDIES\03-WWMP\DRW\MODEL\2024 WWMP UPDATE\2024 CITY OF JUSTIN WASTEWATER MODEL UPDATE.DWG



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FUTURE PEAK FLOW - DEPTH TO DIAMETER RATIO MAP

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FIGURE 7
SHEET 1 OF 1

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Color Coding Legend
Conduit: Diameter (in)

<= 6.0
<= 8.0
<= 10.0
<= 12.0
<= 14.0
<= 15.0
<= 18.0
<= 21.0
<= 27.0
<= 30.0
<= 33.0
<= 36.0
Other

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FUTURE PEAK FLOW - SEWER MAP (IMPROVEMENTS)

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FIGURE 8
SHEET 1 OF 1

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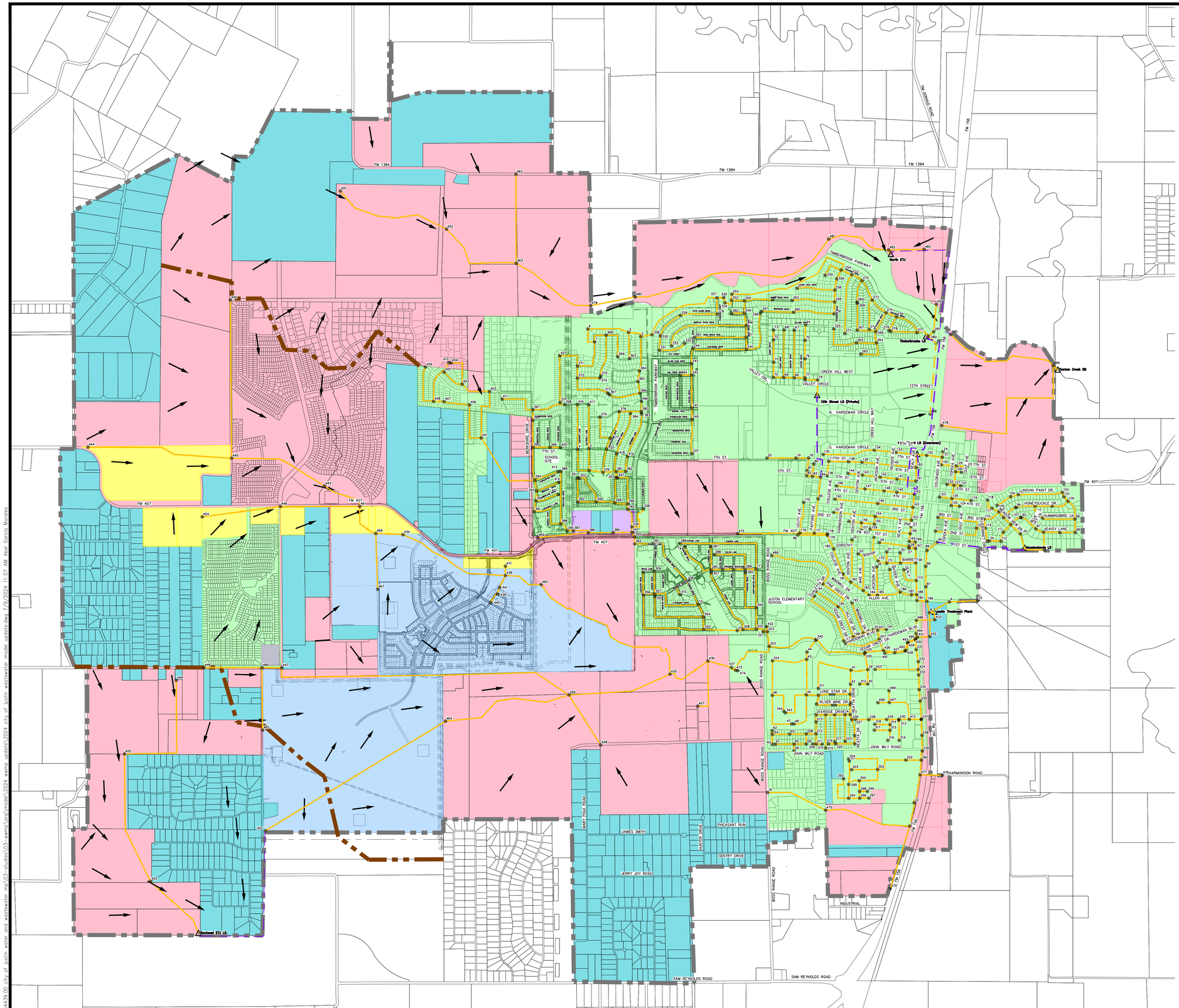

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FUTURE PEAK FLOW - DEPTH TO DIAMETER RATIO MAP (IMPROVEMENTS)

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FIGURE 9
SHEET 1 OF 1

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Appendix B

SewerGems Model Output Tables

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
1	710.15	698.09	0.0000	0.0251	0.0251
2	697.00	688.00	0.0000	0.0636	0.0636
3	713.23	700.75	0.0037	0.0084	0.0121
4	715.75	703.96	0.0037	0.0092	0.0130
5	699.00	689.00	0.0000	0.0444	0.0444
6	701.00	692.50	0.0000	0.0392	0.0392
7	701.00	694.00	0.0000	0.0392	0.0392
8	616.65	597.00	0.0000	1.6786	1.6786
9	624.36	600.00	0.0000	0.0060	0.0060
10	615.22	611.22	0.0060	0.0000	0.0060
11	639.83	635.83	0.0009	0.0000	0.0009
12	630.00	626.00	0.0000	0.0018	0.0018
13	640.61	636.61	0.0009	0.0000	0.0009
14	684.46	677.74	0.0037	0.0000	0.0037
15	665.40	656.95	0.0020	0.2594	0.2614
17	672.00	660.12	0.0068	0.0328	0.0396
18	695.45	688.75	0.0121	0.0009	0.0130
19	700.00	693.50	0.0000	0.0009	0.0009
20	702.00	696.00	0.0009	0.0000	0.0009
21	655.88	641.91	0.0000	0.2959	0.2959
22	671.67	651.05	0.0000	0.0150	0.0150
23	636.98	632.98	0.0004	0.0000	0.0004
24	637.85	633.00	0.0004	0.0000	0.0004
25	643.27	639.27	0.0022	0.0000	0.0022
26	663.00	656.00	0.0033	0.0000	0.0033
27	641.33	637.33	0.0000	0.0022	0.0022
28	642.00	638.00	0.0004	0.0018	0.0022
29	662.29	658.29	0.0018	0.0000	0.0018
30	645.00	641.00	0.0009	0.0000	0.0009
31	653.81	649.81	0.0009	0.0000	0.0009
32	681.00	669.74	0.0040	0.0000	0.0040
33	673.00	662.09	0.0031	0.0000	0.0031
34	630.99	626.99	0.0018	0.0000	0.0018
35	628.00	624.00	0.0022	0.0000	0.0022
36	628.00	624.00	0.0020	0.0000	0.0020
37	625.00	621.00	0.0004	0.0000	0.0004
38	625.00	621.00	0.0007	0.0000	0.0007
39	626.00	622.00	0.0004	0.0293	0.0297
40	645.95	641.95	0.0000	0.0090	0.0090
41	646.00	639.00	0.0022	0.0180	0.0202
42	654.00	647.00	0.0000	0.0042	0.0042
43	639.22	630.25	0.0000	0.0521	0.0521
44	635.02	629.32	0.0000	0.0521	0.0521
45	664.58	651.86	0.0051	0.0163	0.0213
46	671.94	659.46	0.0051	0.0136	0.0187
47	683.37	676.59	0.0081	0.0000	0.0081

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
48	683.31	677.33	0.0046	0.0000	0.0046
49	680.62	674.00	0.0009	0.0026	0.0035
50	685.00	681.00	0.0026	0.0000	0.0026
51	679.25	672.00	0.0007	0.0000	0.0007
52	670.26	666.26	0.0004	0.0037	0.0042
53	681.22	677.22	0.0031	0.0000	0.0031
54	682.00	678.00	0.0022	0.0000	0.0022
55	669.37	665.37	0.0007	0.0051	0.0057
56	672.31	668.31	0.0000	0.0029	0.0029
57	685.00	681.00	0.0029	0.0000	0.0029
58	693.97	689.97	0.0004	0.0000	0.0004
59	692.00	683.50	0.0007	0.0048	0.0055
60	693.50	686.00	0.0018	0.0031	0.0048
61	695.00	691.00	0.0026	0.0000	0.0026
62	692.00	688.00	0.0004	0.0000	0.0004
63	695.00	691.00	0.0013	0.0000	0.0013
64	693.29	686.50	0.0024	0.0018	0.0042
65	691.97	684.00	0.0026	0.0042	0.0068
66	675.00	671.00	0.0004	0.0169	0.0174
67	689.00	686.00	0.0044	0.0000	0.0044
68	695.50	691.50	0.0044	0.0000	0.0044
69	676.19	672.22	0.0007	0.0119	0.0125
70	678.00	674.00	0.0024	0.0051	0.0075
71	686.09	682.00	0.0026	0.0024	0.0051
72	700.00	696.00	0.0015	0.0009	0.0024
73	702.00	698.00	0.0009	0.0000	0.0009
74	681.64	672.00	0.0068	0.0000	0.0068
75	684.00	669.00	0.0018	0.0068	0.0086
76	680.71	665.00	0.0015	0.0086	0.0101
77	673.00	662.00	0.0000	0.0275	0.0275
78	673.00	661.50	0.0013	0.0275	0.0288
79	670.00	659.00	0.0018	0.0288	0.0306
80	692.64	688.00	0.0007	0.0000	0.0007
81	697.00	687.00	0.0000	0.0130	0.0130
82	696.89	686.50	0.0013	0.0130	0.0143
83	695.07	686.00	0.0000	0.0150	0.0150
84	692.67	682.00	0.1245	0.0150	0.1395
85	686.04	675.00	0.0035	0.1395	0.1430
86	676.00	669.00	0.0009	0.0000	0.0009
87	629.75	625.84	0.0000	0.1849	0.1849
88	634.05	630.05	0.0000	0.1849	0.1849
89	638.00	634.00	0.0000	0.1849	0.1849
90	639.00	635.00	0.1849	0.0000	0.1849
91	608.57	604.57	0.0009	0.0015	0.0024
92	619.26	615.00	0.0015	0.0000	0.0015
93	621.16	617.16	0.0033	0.0007	0.0040

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
94	618.07	614.07	0.0018	0.0046	0.0064
95	596.25	592.25	0.0000	0.0286	0.0286
96	604.14	597.00	0.0000	0.0286	0.0286
97	604.00	600.00	0.0022	0.0240	0.0262
98	604.83	600.83	0.0018	0.0222	0.0240
99	615.32	604.00	0.0009	0.0213	0.0222
100	613.82	607.00	0.0018	0.0156	0.0174
101	613.00	608.00	0.0000	0.0092	0.0092
102	612.36	609.00	0.0000	0.0092	0.0092
103	617.60	615.00	0.0062	0.0031	0.0092
104	623.40	617.00	0.0009	0.0022	0.0031
105	630.59	622.00	0.0022	0.0000	0.0022
106	623.36	619.36	0.0020	0.0026	0.0046
107	618.58	614.58	0.0018	0.0000	0.0018
108	618.00	614.00	0.0004	0.0099	0.0104
109	608.00	604.00	0.0000	0.0176	0.0176
110	612.70	608.70	0.0000	0.0176	0.0176
111	615.01	611.01	0.0024	0.0031	0.0055
112	619.01	615.01	0.0013	0.0018	0.0031
113	632.33	628.33	0.0024	0.0000	0.0024
114	627.31	623.31	0.0011	0.0042	0.0053
115	625.81	621.81	0.0018	0.0053	0.0071
116	622.45	618.45	0.0004	0.0075	0.0080
117	630.32	626.32	0.0000	0.0004	0.0004
118	631.79	627.79	0.0004	0.0000	0.0004
119	636.30	634.00	0.0018	0.0000	0.0018
120	639.00	635.00	0.0013	0.0000	0.0013
121	638.41	635.41	0.0004	0.0000	0.0004
122	638.00	635.00	0.0004	0.0000	0.0004
123	639.37	635.37	0.0022	0.0000	0.0022
124	637.33	634.50	0.0018	0.0000	0.0018
125	639.71	634.00	0.0009	0.0018	0.0027
126	640.00	633.00	0.0000	0.0067	0.0067
127	638.00	632.00	0.0000	0.0076	0.0076
128	638.00	631.00	0.0000	0.0090	0.0090
129	639.00	630.50	0.0049	0.0094	0.0143
130	638.52	629.50	0.0000	0.0143	0.0143
131	638.93	628.00	0.0000	0.0148	0.0148
132	631.15	627.15	0.0000	0.0148	0.0148
133	648.00	644.00	0.0000	0.0090	0.0090
134	657.27	653.27	0.0075	0.0015	0.0090
135	683.62	679.62	0.0015	0.0000	0.0015
136	688.94	684.94	0.0022	0.0000	0.0022
137	684.00	680.00	0.0020	0.0022	0.0042
138	673.70	669.70	0.0013	0.0042	0.0055
139	665.44	661.44	0.0033	0.0055	0.0088

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Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
140	647.95	643.95	0.0004	0.0088	0.0092
141	649.63	645.63	0.0020	0.0044	0.0064
142	655.77	651.77	0.0009	0.0035	0.0044
143	666.41	662.41	0.0020	0.0015	0.0035
144	676.16	672.16	0.0015	0.0000	0.0015
145	650.00	646.00	0.0029	0.0066	0.0095
146	654.80	650.80	0.0015	0.0051	0.0066
147	663.89	659.89	0.0020	0.0031	0.0051
148	684.50	680.50	0.0031	0.0000	0.0031
149	659.42	655.42	0.0031	0.0053	0.0084
150	682.72	678.72	0.0053	0.0000	0.0053
151	679.20	675.20	0.0044	0.0000	0.0044
152	680.00	676.00	0.0024	0.0000	0.0024
153	642.65	631.50	0.0009	1.2999	1.3008
154	667.28	663.28	0.0040	0.0073	0.0113
155	671.41	667.41	0.0000	0.0029	0.0029
156	678.17	674.17	0.0000	0.0029	0.0029
157	678.92	674.92	0.0004	0.0000	0.0004
158	642.00	630.50	0.0009	1.3048	1.3057
159	674.11	670.11	0.0040	0.0000	0.0040
160	639.27	635.27	0.0000	0.0157	0.0157
161	641.92	636.92	0.0000	0.0064	0.0064
162	644.00	634.50	1.2698	0.0095	1.2794
163	643.00	633.00	0.0009	1.2878	1.2887
164	641.74	631.00	0.0000	1.3008	1.3008
165	643.00	630.00	0.0000	1.3057	1.3057
166	641.00	629.50	0.0000	1.3057	1.3057
167	640.87	629.20	0.0004	1.3079	1.3083
168	639.51	628.50	0.0000	1.3134	1.3134
169	669.64	665.64	0.0018	0.0000	0.0018
170	657.00	653.00	0.0004	0.0018	0.0022
171	650.05	646.05	0.0004	0.0031	0.0035
172	643.48	639.48	0.0007	0.0044	0.0051
173	638.23	626.80	0.0000	1.3156	1.3156
174	657.00	645.64	0.0029	0.0000	0.0029
175	689.00	679.19	0.0029	0.0000	0.0029
176	676.00	669.00	0.0002	0.0029	0.0031
177	675.00	668.00	0.0000	0.1461	0.1461
178	675.00	666.00	0.0000	0.1461	0.1461
179	675.00	665.00	0.0013	0.1470	0.1483
180	668.00	661.00	0.0031	0.1483	0.1514
181	657.00	651.00	0.0004	0.1514	0.1518
182	656.00	650.00	0.0011	0.1558	0.1569
183	656.00	649.00	0.0002	0.1600	0.1602
184	655.00	648.00	0.0007	0.1602	0.1608
185	655.00	645.00	0.0015	0.1641	0.1657

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Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
186	650.00	640.10	0.0013	0.1685	0.1699
187	636.81	625.80	0.0009	0.1699	0.1707
188	634.90	625.00	0.0000	1.4863	1.4863
189	630.12	620.00	0.0000	1.6726	1.6726
190	633.16	624.00	0.0013	1.4863	1.4877
191	642.00	630.32	0.0057	0.0000	0.0057
192	639.34	635.34	0.0055	0.0000	0.0055
193	661.00	650.50	0.0128	0.0000	0.0128
194	663.00	656.00	0.0145	0.0000	0.0145
195	652.00	645.00	0.0057	0.0273	0.0330
196	660.00	653.00	0.0092	0.0000	0.0092
197	643.00	631.95	0.0009	0.0092	0.0101
198	641.00	630.48	0.0002	0.0431	0.0433
199	640.00	629.51	0.0000	0.0488	0.0488
200	640.00	629.00	0.0090	0.0488	0.0579
201	640.00	628.50	0.0009	0.0636	0.0645
202	657.86	640.44	0.0000	0.3601	0.3601
203	651.68	639.30	0.0000	0.3606	0.3606
204	635.35	627.53	0.0000	0.0521	0.0521
205	627.03	613.90	0.0000	0.0297	0.0297
206	642.00	630.70	0.0044	0.0000	0.0044
207	637.00	626.60	0.0000	0.0689	0.0689
208	692.00	681.50	0.0011	0.0123	0.0134
209	691.63	687.63	0.0009	0.0000	0.0009
210	692.87	688.87	0.0009	0.0000	0.0009
211	692.00	686.00	0.0013	0.0018	0.0031
212	688.97	680.00	0.0009	0.0165	0.0174
213	682.39	678.39	0.0007	0.0174	0.0180
214	678.00	673.10	0.0009	0.0180	0.0189
215	694.00	690.00	0.0037	0.0000	0.0037
216	684.36	672.00	0.0009	0.0227	0.0235
217	691.85	687.85	0.0044	0.0000	0.0044
218	685.00	670.90	0.0009	0.0279	0.0288
219	693.50	689.42	0.0004	0.0000	0.0004
220	692.65	688.63	0.0018	0.0004	0.0022
221	687.02	683.02	0.0007	0.0022	0.0029
222	680.80	676.80	0.0011	0.0029	0.0040
223	688.76	684.76	0.0042	0.0000	0.0042
224	681.00	669.80	0.0004	0.0330	0.0334
225	678.34	669.14	0.0002	0.0370	0.0372
226	675.00	668.49	0.0002	0.0411	0.0414
227	675.00	668.10	0.0000	0.0414	0.0414
228	667.43	663.43	0.0000	0.0414	0.0414
229	660.66	656.66	0.0000	0.0414	0.0414
230	652.07	648.07	0.0000	0.0954	0.0954
231	617.00	613.00	0.0000	0.1768	0.1768

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Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
232	623.02	619.02	0.0000	0.1768	0.1768
233	634.54	630.54	0.0004	0.1489	0.1494
234	642.74	633.00	0.0004	0.1485	0.1489
235	645.01	634.00	0.0013	0.1471	0.1485
236	646.60	637.50	0.0000	0.1471	0.1471
237	646.27	637.60	0.0000	0.1471	0.1471
238	649.49	645.49	0.0013	0.0504	0.0518
239	654.00	647.00	0.0004	0.0500	0.0504
240	715.79	702.58	0.0051	0.0238	0.0288
241	713.78	701.32	0.0077	0.0288	0.0365
242	707.86	697.69	0.0000	0.0528	0.0528
243	708.74	696.43	0.0064	0.0528	0.0592
244	709.51	694.41	0.0092	0.0592	0.0684
245	697.57	685.41	0.0007	0.0737	0.0744
246	702.25	695.20	0.0053	0.0000	0.0053
247	699.14	684.09	0.0009	0.0836	0.0845
248	693.35	682.77	0.0009	0.0975	0.0983
249	683.16	672.11	0.0004	0.1005	0.1010
250	668.43	660.38	0.0015	0.1043	0.1058
251	690.59	684.04	0.0033	0.0000	0.0033
252	656.00	647.39	0.0000	0.1846	0.1846
253	652.94	646.89	0.0000	0.1846	0.1846
254	628.48	619.55	0.0009	0.2191	0.2200
255	634.67	627.08	0.0040	0.0000	0.0040
256	651.29	640.84	0.0018	0.0275	0.0293
257	679.35	670.87	0.0051	0.0000	0.0051
258	659.57	648.16	0.0011	0.0213	0.0224
259	661.88	652.60	0.0024	0.0097	0.0121
260	685.49	673.84	0.0055	0.0042	0.0097
261	702.55	696.00	0.0042	0.0000	0.0042
262	684.59	677.53	0.0092	0.0000	0.0092
263	666.17	658.54	0.0033	0.0068	0.0101
264	642.59	634.66	0.0009	0.0134	0.0143
265	671.57	665.52	0.0033	0.0000	0.0033
266	638.66	628.22	0.0018	0.0211	0.0229
267	653.78	643.95	0.0020	0.0048	0.0068
268	654.48	647.43	0.0048	0.0000	0.0048
269	653.36	646.31	0.0035	0.0000	0.0035
270	626.58	617.80	0.0026	0.2350	0.2376
271	661.10	652.34	0.0103	0.0000	0.0103
272	627.49	618.69	0.0011	0.2303	0.2314
273	632.66	615.97	0.0029	0.2411	0.2440
274	646.22	640.17	0.0035	0.0000	0.0035
275	626.83	614.51	0.0009	0.2669	0.2677
276	626.86	613.48	0.0040	0.2702	0.2741
277	623.97	610.89	0.0000	0.2776	0.2776

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FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
278	628.22	622.17	0.0035	0.0000	0.0035
279	629.72	623.67	0.0024	0.0000	0.0024
280	624.65	606.77	0.0000	0.2776	0.2776
281	621.00	607.50	0.0000	0.0000	0.0000
282	680.94	673.59	0.0022	0.0000	0.0022
283	713.91	705.91	0.0092	0.0000	0.0092
284	709.71	699.50	0.0163	0.0000	0.0163
285	676.69	665.28	0.0000	0.0059	0.0059
286	684.35	677.74	0.0169	0.0000	0.0169
287	686.89	679.40	0.0022	0.0000	0.0022
288	681.88	675.31	0.0055	0.0000	0.0055
289	674.27	661.54	0.0000	0.0158	0.0158
290	680.15	662.79	0.0022	0.0081	0.0103
291	678.42	664.04	0.0022	0.0059	0.0081
292	657.93	647.93	0.0000	0.0500	0.0500
293	688.12	680.00	0.0051	0.0000	0.0051
294	685.74	675.28	0.0011	0.0079	0.0090
295	686.10	677.87	0.0029	0.0000	0.0029
296	686.35	674.16	0.0009	0.0106	0.0114
297	686.50	679.94	0.0015	0.0000	0.0015
298	687.19	673.27	0.0011	0.0123	0.0134
299	687.72	680.79	0.0009	0.0000	0.0009
300	683.66	672.05	0.0051	0.0167	0.0218
301	689.48	683.51	0.0033	0.0000	0.0033
302	674.98	667.28	0.0000	0.0350	0.0350
303	688.39	683.19	0.0057	0.0000	0.0057
304	690.09	684.74	0.0075	0.0000	0.0075
305	692.12	678.88	0.0000	0.2215	0.2215
306	677.34	663.81	0.0035	0.2341	0.2376
307	673.34	665.85	0.0079	0.0139	0.0218
308	685.55	677.81	0.0048	0.0000	0.0048
309	683.15	668.86	0.0090	0.0000	0.0090
310	672.84	665.47	0.0022	0.0000	0.0022
311	673.46	666.46	0.0139	0.0000	0.0139
312	652.00	645.00	0.0090	0.0000	0.0090
313	655.00	649.00	0.0000	0.0540	0.0540
314	660.00	656.00	0.0000	0.0405	0.0405
315	665.00	658.50	0.0000	0.0270	0.0270
316	671.00	664.00	0.0135	0.0000	0.0135
317	677.00	670.00	0.0135	0.0000	0.0135
318	670.00	663.00	0.0135	0.0000	0.0135
319	673.00	667.00	0.0135	0.0000	0.0135
320	659.72	648.58	0.0018	0.2941	0.2959
321	652.90	639.66	0.0000	0.3601	0.3601
322	661.52	651.66	0.0000	0.0350	0.0350
323	642.14	619.50	0.0000	0.5157	0.5157

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Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
324	644.75	634.24	0.0121	0.0187	0.0308
325	669.84	662.79	0.0068	0.0000	0.0068
326	631.39	620.64	0.0013	0.0293	0.0306
327	667.06	660.05	0.0000	0.0788	0.0788
328	687.80	678.10	0.0020	0.0132	0.0152
329	703.09	695.12	0.0046	0.0086	0.0132
330	707.36	699.70	0.0040	0.0046	0.0086
331	712.25	705.20	0.0020	0.0026	0.0046
332	716.88	709.51	0.0026	0.0000	0.0026
333	715.72	708.81	0.0130	0.0000	0.0130
334	665.00	656.25	0.0000	0.0788	0.0788
335	663.00	657.00	0.0000	0.0788	0.0788
336	697.70	677.25	0.0000	0.0636	0.0636
337	714.42	706.45	0.0238	0.0000	0.0238
338	701.95	693.00	0.0055	0.0000	0.0055
339	698.12	683.00	0.0000	0.1036	0.1036
340	699.36	688.00	0.0000	0.0981	0.0981
341	692.05	679.33	0.0000	0.2215	0.2215
342	679.00	658.95	0.0150	0.0000	0.0150
343	676.08	670.00	0.0059	0.0000	0.0059
344	676.08	670.00	0.0055	0.0000	0.0055
345	635.35	614.98	0.0000	0.5678	0.5678
346	700.78	689.42	0.0000	0.0981	0.0981
347	710.14	698.78	0.0084	0.0000	0.0084
348	704.15	692.79	0.0024	0.0873	0.0898
349	709.01	697.65	0.0020	0.0163	0.0183
350	713.82	702.37	0.0000	0.0092	0.0092
351	719.97	708.52	0.0092	0.0000	0.0092
352	717.53	706.17	0.0070	0.0000	0.0070
353	710.67	694.00	0.0051	0.0640	0.0691
354	666.25	650.64	0.0015	0.2726	0.2741
355	675.60	665.60	0.0112	0.0000	0.0112
356	674.28	667.08	0.0200	0.0000	0.0200
357	676.69	669.69	0.0139	0.0000	0.0139
358	656.32	641.44	0.0018	0.3098	0.3115
359	660.14	651.40	0.0033	0.0453	0.0486
360	672.00	665.00	0.0057	0.0000	0.0057
361	685.85	675.46	0.0070	0.2248	0.2319
362	693.00	677.92	0.0033	0.2215	0.2248
363	722.00	715.00	0.0053	0.0000	0.0053
364	719.00	712.00	0.0042	0.0150	0.0191
365	721.00	714.00	0.0095	0.0055	0.0150
366	722.00	715.00	0.0007	0.0048	0.0055
367	733.00	726.00	0.0048	0.0000	0.0048
368	707.00	700.00	0.0022	0.0110	0.0132
369	725.00	718.00	0.0046	0.0000	0.0046

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FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
370	720.00	713.00	0.0064	0.0000	0.0064
371	713.00	700.00	0.0035	0.0224	0.0260
372	725.00	711.50	0.0009	0.0088	0.0097
373	733.00	723.00	0.0057	0.0000	0.0057
374	720.00	713.00	0.0031	0.0000	0.0031
375	735.00	728.00	0.0110	0.0000	0.0110
376	707.53	696.53	0.0000	0.0433	0.0433
377	713.51	706.51	0.0000	0.0134	0.0134
378	720.85	713.85	0.0051	0.0020	0.0070
379	721.15	714.15	0.0064	0.0000	0.0064
380	726.51	719.51	0.0020	0.0000	0.0020
381	710.66	694.75	0.0000	0.0640	0.0640
382	713.18	703.00	0.0000	0.0101	0.0101
383	726.54	719.54	0.0075	0.0000	0.0075
384	726.84	719.84	0.0073	0.0000	0.0073
385	700.22	685.81	0.0000	0.1179	0.1179
386	699.66	687.25	0.0000	0.1179	0.1179
387	698.53	688.61	0.0000	0.1179	0.1179
388	703.57	693.02	0.0000	0.1179	0.1179
389	716.39	710.00	0.0077	0.0000	0.0077
390	699.69	692.34	0.0000	0.1179	0.1179
391	704.97	695.51	0.0068	0.1034	0.1102
392	706.84	696.28	0.0000	0.1034	0.1034
393	708.51	696.97	0.0000	0.0986	0.0986
394	711.52	697.75	0.0000	0.0937	0.0937
395	718.37	700.29	0.0000	0.0365	0.0365
396	714.19	702.14	0.0029	0.0163	0.0191
397	715.00	702.95	0.0000	0.0163	0.0163
398	741.00	731.00	0.0059	0.0000	0.0059
399	716.82	707.85	0.0000	0.0174	0.0174
400	718.39	709.00	0.0174	0.0000	0.0174
401	730.00	723.00	0.0000	0.0546	0.0546
402	748.00	741.00	0.0117	0.0095	0.0211
403	751.00	744.00	0.0000	0.0095	0.0095
404	762.00	755.00	0.0048	0.0000	0.0048
405	760.00	753.00	0.0046	0.0000	0.0046
406	739.00	732.00	0.0070	0.0264	0.0334
407	744.00	736.00	0.0114	0.0150	0.0264
408	744.00	737.00	0.0000	0.0150	0.0150
409	764.00	757.00	0.0086	0.0000	0.0086
410	762.00	755.00	0.0064	0.0000	0.0064
411	748.00	740.00	0.0103	0.0000	0.0103
412	650.00	638.43	0.0000	0.0954	0.0954
413	715.92	711.00	0.0026	0.0000	0.0026
414	712.20	705.00	0.0048	0.0000	0.0048
415	709.79	702.50	0.0048	0.0000	0.0048

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
416	722.47	715.47	0.0092	0.0000	0.0092
417	719.02	712.02	0.0084	0.0000	0.0084
418	717.45	708.77	0.0033	0.0073	0.0106
419	720.47	707.83	0.0026	0.0075	0.0101
420	716.20	703.53	0.0048	0.0134	0.0183
421	710.00	703.00	0.0018	0.0110	0.0128
422	647.57	639.60	0.0004	0.0000	0.0004
423	650.00	643.00	0.0270	0.0000	0.0270
424	629.82	625.81	0.0004	0.1764	0.1768
425	625.31	609.57	0.0000	0.5975	0.5975
426	621.61	606.67	0.0000	0.6664	0.6664
427	619.19	605.83	0.0000	0.6664	0.6664
428	617.08	604.98	0.0000	0.6664	0.6664
429	617.43	604.14	0.0000	0.6664	0.6664
430	614.23	603.75	0.0000	0.8432	0.8432
431	613.00	603.57	0.0000	0.8432	0.8432
432	611.00	603.16	0.0000	0.8432	0.8432
433	611.23	602.41	0.0000	0.8432	0.8432
434	704.25	688.76	0.0000	0.0000	0.0000
435	657.20	635.85	0.0000	0.1551	0.1551
436	649.22	628.55	0.0000	0.1551	0.1551
437	642.58	627.00	0.0000	0.1551	0.1551
438	688.44	670.33	0.0000	0.1551	0.1551
439	696.60	682.54	0.0000	0.1551	0.1551
440	698.97	686.12	0.1551	0.0000	0.1551
441	691.08	675.45	0.0000	0.1551	0.1551
460	682.86	664.17	0.0000	0.1551	0.1551
473	642.54	626.31	0.0000	0.1551	0.1551
474	651.00	627.00	0.0000	0.0000	0.0000
477	662.59	648.99	0.0000	0.0150	0.0150
488	621.06	600.07	0.0000	0.0000	0.0000
489	668.34	664.34	0.0000	0.0000	0.0000
491	620.67	607.00	0.0000	0.0000	0.0000
492	612.00	604.00	0.0000	0.0000	0.0000
493	617.21	603.50	0.0000	0.0000	0.0000
494	621.75	602.00	0.0000	0.0000	0.0000
495	615.51	603.00	0.0000	0.0000	0.0000
496	729.11	722.11	0.0000	0.0000	0.0000
497	655.41	644.22	0.0000	0.0000	0.0000
498	660.78	650.78	0.0000	0.0000	0.0000
499	656.22	645.50	0.0000	0.0000	0.0000

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-1	240	702.58	241	701.32	291.4	0.004	8.0	0.013	1.23	0.0288	17.1
CO-2	241	701.32	242	697.69	852.2	0.004	8.0	0.013	1.31	0.0365	19.9
CO-3	242	697.69	243	696.43	290.7	0.004	8.0	0.013	1.47	0.0528	21.8
CO-4	243	696.43	244	694.41	398.9	0.005	8.0	0.013	1.60	0.0592	22.1
CO-5	239	647.00	238	645.49	401.5	0.004	10.0	0.013	1.34	0.0504	15.4
CO-6	244	694.41	245	685.41	1,382.5	0.007	8.0	0.013	1.83	0.0684	23.2
CO-7	238	645.49	237	637.60	411.9	0.019	10.0	0.013	2.39	0.0518	19.0
CO-8	245	685.41	246	695.20	1,204.2	0.008	8.0	0.013	0.91	0.0053	15.2
CO-9	237	637.60	236	637.50	8.5	0.012	12.0	0.013	2.69	0.1471	18.0
CO-10	245	685.41	247	684.09	317.3	0.004	10.0	0.013	1.56	0.0744	19.9
CO-11	236	637.50	235	634.00	466.8	0.007	12.0	0.013	2.30	0.1471	21.0
CO-12	247	684.09	248	682.77	308.0	0.004	10.0	0.013	1.64	0.0845	20.3
CO-13	235	634.00	234	633.00	295.1	0.003	12.0	0.013	1.74	0.1485	21.1
CO-14	248	682.77	249	672.11	314.3	0.034	10.0	0.013	3.55	0.0983	20.3
CO-15	234	633.00	233	630.54	378.4	0.007	12.0	0.013	2.19	0.1489	19.7
CO-16	249	672.11	250	660.38	321.6	0.036	10.0	0.013	3.67	0.1010	20.6
CO-17	250	660.38	251	684.04	730.2	0.032	8.0	0.013	1.28	0.0033	15.4
CO-18	233	630.54	424	625.81	140.6	0.034	12.0	0.013	3.91	0.1494	20.6
CO-19	424	625.81	232	619.02	202.2	0.034	12.0	0.013	4.12	0.1768	17.7
CO-20	232	619.02	231	613.00	312.8	0.019	12.0	0.013	3.38	0.1768	18.7
CO-21	250	660.38	252	647.39	332.3	0.039	10.0	0.013	3.81	0.1058	26.8
CO-22	231	613.00	430	605.89	258.6	0.027	12.0	0.013	3.83	0.1768	18.1
CO-23	252	647.39	253	646.89	158.8	0.003	10.0	0.013	1.84	0.1846	30.3
CO-24	253	646.89	254	619.55	3,440.3	0.008	10.0	0.013	2.56	0.1846	31.0
CO-25	230	648.07	412	638.43	266.7	0.036	10.0	0.013	3.59	0.0954	22.1
CO-26	412	638.43	237	637.60	309.3	0.003	10.0	0.013	1.44	0.0954	23.9
CO-27	229	656.66	230	648.07	315.5	0.027	10.0	0.013	2.52	0.0414	16.4
CO-28	255	627.08	254	619.55	590.6	0.013	8.0	0.013	0.98	0.0040	24.0
CO-29	228	663.43	229	656.66	460.3	0.015	10.0	0.013	2.04	0.0414	11.8
CO-30	256	640.84	326	620.64	295.6	0.068	8.0	0.013	3.25	0.0293	15.5

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-31	227	668.10	228	663.43	339.0	0.014	10.0	0.013	1.99	0.0414	11.9
CO-32	257	670.87	256	640.84	980.6	0.031	8.0	0.013	1.44	0.0051	10.2
CO-33	226	668.49	227	668.10	100.5	0.004	10.0	0.013	1.28	0.0414	13.8
CO-34	258	648.16	256	640.84	303.2	0.024	8.0	0.013	2.08	0.0224	13.5
CO-35	225	669.14	226	668.49	136.6	0.005	8.0	0.013	1.37	0.0372	18.1
CO-36	259	652.60	258	648.16	309.8	0.014	8.0	0.013	1.45	0.0121	10.9
CO-37	224	669.80	225	669.14	134.9	0.005	8.0	0.013	1.34	0.0334	17.3
CO-38	260	673.84	259	652.60	1,053.0	0.020	8.0	0.013	1.50	0.0097	8.7
CO-39	223	684.76	224	669.80	689.2	0.022	6.0	0.013	1.25	0.0042	15.0
CO-40	260	673.84	261	696.00	818.6	0.027	8.0	0.013	1.32	0.0042	6.8
CO-41	262	677.53	258	648.16	1,100.3	0.027	8.0	0.013	1.64	0.0092	10.3
CO-42	222	676.80	226	668.49	423.1	0.020	8.0	0.013	1.15	0.0040	11.8
CO-43	263	658.54	264	634.66	516.9	0.046	8.0	0.013	2.04	0.0101	9.2
CO-44	221	683.02	222	676.80	213.6	0.029	8.0	0.013	1.18	0.0029	4.8
CO-45	265	665.52	264	634.66	750.4	0.041	8.0	0.013	1.41	0.0033	7.4
CO-46	220	688.63	221	683.02	487.0	0.012	8.0	0.013	0.79	0.0022	4.2
CO-47	266	628.22	264	634.66	293.0	0.022	8.0	0.013	1.74	0.0143	11.4
CO-48	219	689.42	220	688.63	193.8	0.004	6.0	0.013	0.36	0.0004	4.2
CO-49	267	643.95	266	628.22	481.0	0.033	8.0	0.013	1.61	0.0068	9.8
CO-50	218	670.90	224	669.80	266.6	0.004	8.0	0.013	1.21	0.0288	16.5
CO-51	268	647.43	267	643.95	694.3	0.005	8.0	0.013	0.75	0.0048	6.8
CO-52	217	687.85	218	670.90	698.4	0.024	6.0	0.013	1.32	0.0044	14.8
CO-53	269	646.31	270	617.80	581.9	0.049	8.0	0.013	1.53	0.0035	24.1
CO-54	272	618.69	271	652.34	1,548.7	0.022	8.0	0.013	1.58	0.0103	26.3
CO-55	216	672.00	218	670.90	232.2	0.005	8.0	0.013	1.20	0.0235	15.3
CO-56	254	619.55	272	618.69	296.6	0.003	12.0	0.013	1.85	0.2200	28.9
CO-57	215	690.00	216	672.00	860.3	0.021	8.0	0.013	1.16	0.0037	9.7
CO-58	272	618.69	270	617.80	309.2	0.003	12.0	0.013	1.87	0.2314	29.1
CO-59	270	617.80	273	615.97	565.7	0.003	12.0	0.013	1.96	0.2376	29.3
CO-60	214	673.10	216	672.00	245.5	0.004	8.0	0.013	1.10	0.0189	13.6

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-61	274	640.17	273	615.97	796.6	0.030	8.0	0.013	1.28	0.0035	24.8
CO-62	213	678.39	214	673.10	185.1	0.029	8.0	0.013	2.07	0.0180	12.1
CO-63	273	615.97	275	614.51	486.5	0.003	12.0	0.013	1.92	0.2440	29.9
CO-64	212	680.00	213	678.39	304.2	0.005	8.0	0.013	1.14	0.0174	11.6
CO-65	266	628.22	275	614.51	553.2	0.025	8.0	0.013	2.12	0.0229	28.9
CO-66	211	686.00	212	680.00	267.7	0.022	8.0	0.013	1.11	0.0031	8.3
CO-67	275	614.51	276	613.48	291.9	0.004	12.0	0.013	2.09	0.2677	30.0
CO-68	210	688.87	211	686.00	157.2	0.018	6.0	0.013	0.75	0.0009	4.9
CO-69	276	613.48	277	610.89	710.4	0.004	12.0	0.013	2.13	0.2741	28.6
CO-70	209	687.63	211	686.00	83.5	0.020	8.0	0.013	0.74	0.0009	3.6
CO-71	278	622.17	277	610.89	673.5	0.017	8.0	0.013	1.05	0.0035	22.8
CO-72	208	681.50	212	680.00	253.8	0.006	8.0	0.013	1.09	0.0134	11.2
CO-73	279	623.67	276	613.48	406.8	0.025	8.0	0.013	1.09	0.0024	24.6
CO-74	277	610.89	280	606.77	365.3	0.011	12.0	0.013	3.20	0.2776	27.8
CO-77	282	673.59	249	672.11	326.8	0.005	8.0	0.013	0.57	0.0022	15.1
CO-78	283	705.91	247	684.09	1,330.0	0.016	8.0	0.013	1.38	0.0092	16.8
CO-81	207	626.60	426	612.04	307.7	0.047	8.0	0.013	3.68	0.0689	18.0
CO-82	284	699.50	242	697.69	287.2	0.006	8.0	0.013	1.18	0.0163	16.4
CO-83	206	630.70	207	626.60	911.8	0.004	8.0	0.013	0.70	0.0044	14.4
CO-85	345	614.98	425	609.57	1,421.9	0.004	30.0	0.013	2.41	0.5678	12.6
CO-86	289	661.54	17	660.12	285.9	0.005	8.0	0.013	1.08	0.0158	14.2
CO-87	204	627.53	345	626.00	36.4	0.042	8.0	0.013	3.26	0.0521	15.8
CO-88	286	677.74	17	660.12	2,621.1	0.007	8.0	0.013	1.22	0.0169	14.0
CO-89	202	640.44	321	639.66	250.2	0.003	15.0	0.013	2.13	0.3601	26.3
CO-90	201	628.50	207	626.60	240.3	0.008	8.0	0.013	1.93	0.0645	21.9
CO-91	285	665.28	287	679.40	594.4	0.024	8.0	0.013	1.01	0.0022	5.8
CO-92	200	629.00	201	628.50	107.3	0.005	8.0	0.013	1.55	0.0579	21.9
CO-93	288	675.31	289	661.54	1,167.4	0.012	8.0	0.013	1.05	0.0055	8.9
CO-94	199	629.51	200	629.00	270.2	0.002	8.0	0.013	1.07	0.0488	23.9
CO-95	289	661.54	290	662.79	297.0	0.004	8.0	0.013	0.89	0.0103	10.8

2024 City of Justin Wastewater Model Update.stsw
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FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-96	198	630.48	199	629.51	271.9	0.004	8.0	0.013	1.29	0.0433	23.1
CO-97	197	631.95	198	630.48	272.7	0.005	8.0	0.013	0.97	0.0101	14.9
CO-98	285	665.28	291	664.04	295.7	0.004	8.0	0.013	0.75	0.0059	8.2
CO-99	196	653.00	197	631.95	1,538.4	0.014	8.0	0.013	1.30	0.0092	8.7
CO-100	291	664.04	290	662.79	284.2	0.004	8.0	0.013	0.85	0.0081	9.3
CO-101	292	647.93	239	647.00	246.9	0.004	10.0	0.013	1.34	0.0500	16.3
CO-102	293	680.00	294	675.28	929.8	0.005	8.0	0.013	0.76	0.0051	8.1
CO-103	295	677.87	294	675.28	357.4	0.007	8.0	0.013	0.73	0.0029	7.1
CO-104	294	675.28	296	674.16	282.6	0.004	8.0	0.013	0.84	0.0090	9.6
CO-105	297	679.94	296	679.00	235.5	0.004	8.0	0.013	0.49	0.0015	3.7
CO-106	195	645.00	198	630.48	884.8	0.016	8.0	0.013	2.04	0.0330	18.0
CO-107	296	674.16	298	673.27	174.1	0.005	8.0	0.013	0.99	0.0114	10.5
CO-108	299	680.79	298	680.00	199.7	0.004	8.0	0.013	0.41	0.0009	2.8
CO-109	194	656.00	195	645.00	692.6	0.016	8.0	0.013	1.58	0.0145	12.7
CO-110	298	673.27	300	672.05	278.6	0.004	8.0	0.013	0.98	0.0134	11.9
CO-111	193	650.50	195	645.00	914.5	0.006	8.0	0.013	1.08	0.0128	12.7
CO-112	301	683.51	300	672.05	815.0	0.014	8.0	0.013	0.97	0.0033	8.8
CO-113	300	672.05	302	667.28	751.5	0.006	8.0	0.013	1.29	0.0218	14.3
CO-114	302	667.28	303	683.19	672.1	0.024	8.0	0.013	1.36	0.0057	11.1
CO-115	192	635.34	199	629.51	829.0	0.007	8.0	0.013	0.88	0.0055	16.1
CO-116	302	667.28	304	684.74	1,027.1	0.017	8.0	0.013	1.31	0.0075	11.5
CO-117	302	667.28	322	651.66	966.7	0.016	8.0	0.013	2.07	0.0350	14.3
CO-118	191	630.32	201	628.50	230.8	0.008	8.0	0.013	0.93	0.0057	14.0
CO-119	305	678.88	362	677.92	177.8	0.005	12.0	0.013	2.31	0.2215	24.6
CO-120	361	675.46	306	663.81	1,437.1	0.008	12.0	0.013	2.70	0.2319	24.9
CO-121	190	624.00	189	620.00	256.5	0.016	18.0	0.013	5.59	1.4877	39.4
CO-122	306	663.81	15	656.95	666.8	0.010	12.0	0.013	2.96	0.2376	25.7
CO-123	307	665.85	15	656.95	1,427.9	0.006	8.0	0.013	1.29	0.0218	26.1
CO-124	308	677.81	307	665.85	849.6	0.014	8.0	0.013	1.08	0.0048	9.3
CO-125	188	625.00	190	624.00	149.2	0.007	18.0	0.013	4.12	1.4863	38.2

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CO-126	309	668.86	307	665.85	582.4	0.005	8.0	0.013	0.92	0.0090	10.8
CO-127	187	625.80	188	625.00	137.1	0.006	8.0	0.013	2.28	0.1707	61.3
CO-128	186	640.10	187	625.80	303.8	0.047	8.0	0.013	4.81	0.1699	36.1
CO-129	185	645.00	186	640.10	598.4	0.008	8.0	0.013	2.56	0.1657	35.3
CO-130	310	665.47	306	663.81	543.5	0.003	8.0	0.013	0.50	0.0022	21.4
CO-131	184	648.00	185	645.00	217.1	0.014	8.0	0.013	3.06	0.1608	34.8
CO-132	183	649.00	184	648.00	189.0	0.005	8.0	0.013	2.16	0.1602	35.4
CO-133	182	650.00	183	649.00	389.0	0.003	8.0	0.013	1.65	0.1569	40.0
CO-134	311	666.46	41	639.00	1,530.1	0.018	8.0	0.013	1.63	0.0139	10.9
CO-135	181	651.00	182	650.00	287.4	0.003	8.0	0.013	1.83	0.1518	41.6
CO-136	180	661.00	181	651.00	687.9	0.015	8.0	0.013	3.06	0.1514	36.5
CO-137	179	665.00	180	661.00	388.6	0.010	8.0	0.013	2.69	0.1483	33.3
CO-138	178	666.00	179	665.00	38.0	0.026	8.0	0.013	3.74	0.1461	33.0
CO-139	177	668.00	178	666.00	336.3	0.006	8.0	0.013	2.20	0.1461	33.2
CO-140	176	669.00	177	668.00	368.4	0.003	8.0	0.013	0.53	0.0031	19.9
CO-141	230	648.07	313	649.00	21.7	0.043	8.0	0.013	3.32	0.0540	22.2
CO-142	314	656.00	313	649.00	339.8	0.021	8.0	0.013	2.35	0.0405	18.4
CO-143	315	658.50	314	656.00	143.4	0.017	8.0	0.013	1.96	0.0270	15.4
CO-144	175	679.19	176	669.00	814.3	0.013	8.0	0.013	0.90	0.0029	5.3
CO-145	316	664.00	315	658.50	272.6	0.020	8.0	0.013	1.67	0.0135	11.8
CO-146	174	645.64	186	640.10	667.4	0.008	6.0	0.013	0.79	0.0029	27.0
CO-147	317	670.00	315	658.50	404.5	0.028	8.0	0.013	1.88	0.0135	11.8
CO-148	173	626.80	188	625.00	365.3	0.005	12.0	0.013	3.55	1.3156	64.7
CO-149	318	663.00	314	656.00	396.1	0.018	8.0	0.013	1.61	0.0135	13.4
CO-150	168	628.50	173	626.80	459.3	0.004	12.0	0.013	3.14	1.3134	72.7
CO-151	313	649.00	319	667.00	517.4	0.035	8.0	0.013	2.01	0.0135	14.7
CO-152	172	639.48	168	628.50	391.1	0.028	6.0	0.013	1.45	0.0051	54.3
CO-154	171	646.05	172	639.48	354.8	0.019	6.0	0.013	1.12	0.0035	7.9
CO-155	354	650.64	320	648.58	322.7	0.006	12.0	0.013	2.60	0.2741	27.5
CO-156	15	656.95	354	650.64	360.7	0.017	12.0	0.013	3.67	0.2614	26.6

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CO-157	170	653.00	171	646.05	238.8	0.029	6.0	0.013	1.15	0.0022	6.4
CO-158	321	639.66	203	639.30	105.3	0.003	15.0	0.013	2.20	0.3601	24.6
CO-159	169	665.64	170	653.00	652.8	0.019	6.0	0.013	0.93	0.0018	5.3
CO-160	292	647.93	322	651.66	394.9	0.009	10.0	0.013	1.66	0.0350	14.1
CO-161	203	639.30	323	630.00	377.8	0.025	15.0	0.013	4.43	0.3606	19.6
CO-162	167	629.20	168	628.50	367.2	0.002	12.0	0.013	2.58	1.3083	88.4
CO-163	323	619.50	345	614.98	1,296.4	0.003	30.0	0.013	2.27	0.5157	12.6
CO-164	166	629.50	167	629.20	167.0	0.002	12.0	0.013	2.57	1.3057	100.0
CO-165	43	630.25	324	634.24	897.8	0.004	8.0	0.013	1.26	0.0308	18.7
CO-166	165	630.00	166	629.50	153.0	0.003	12.0	0.013	2.57	1.3057	100.0
CO-167	55	665.37	45	651.86	315.9	0.043	8.0	0.013	1.69	0.0057	9.3
CO-168	46	659.46	324	634.24	889.1	0.028	8.0	0.013	2.09	0.0187	14.0
CO-169	325	662.79	263	658.54	1,005.0	0.004	8.0	0.013	0.79	0.0068	8.3
CO-170	162	634.50	163	633.00	334.4	0.004	12.0	0.013	3.40	1.2794	88.5
CO-171	326	620.64	254	619.55	251.9	0.004	8.0	0.013	1.25	0.0306	29.6
CO-172	252	647.39	334	656.25	262.4	0.034	8.0	0.013	3.41	0.0788	32.4
CO-173	161	636.92	160	635.27	354.0	0.005	8.0	0.013	0.80	0.0064	9.1
CO-174	327	660.05	328	678.10	417.1	0.043	8.0	0.013	2.25	0.0152	17.1
CO-175	158	630.50	165	630.00	200.7	0.002	12.0	0.013	2.57	1.3057	100.0
CO-176	328	678.10	329	695.12	949.3	0.018	8.0	0.013	1.61	0.0132	10.0
CO-177	164	631.00	158	630.50	187.5	0.003	12.0	0.013	2.56	1.3008	100.0
CO-178	329	695.12	330	699.70	756.9	0.006	8.0	0.013	0.96	0.0086	9.0
CO-179	159	670.11	158	630.50	1,038.3	0.038	8.0	0.013	1.44	0.0040	52.6
CO-180	330	699.70	331	705.20	374.2	0.015	8.0	0.013	1.08	0.0046	7.0
CO-181	157	674.92	156	674.17	193.2	0.004	6.0	0.013	0.35	0.0004	4.8
CO-182	331	705.20	332	709.51	705.8	0.006	8.0	0.013	0.67	0.0026	5.2
CO-183	156	674.17	155	667.41	335.7	0.020	6.0	0.013	1.09	0.0029	5.9
CO-184	333	708.81	248	682.77	2,225.1	0.012	8.0	0.013	1.37	0.0130	17.4
CO-185	155	667.41	154	663.28	201.3	0.021	6.0	0.013	1.09	0.0029	9.1
CO-186	335	657.00	334	656.25	142.1	0.005	8.0	0.013	1.77	0.0788	24.5

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CO-187	153	631.50	164	631.00	162.2	0.003	12.0	0.013	2.56	1.3008	100.0
CO-188	335	657.00	327	660.05	174.6	0.017	8.0	0.013	2.70	0.0788	24.5
CO-189	163	633.00	153	631.50	333.0	0.005	12.0	0.013	2.54	1.2887	100.0
CO-190	336	677.25	327	660.05	2,121.0	0.008	8.0	0.013	1.94	0.0636	22.6
CO-191	154	663.28	153	631.50	943.1	0.034	8.0	0.013	1.88	0.0113	54.4
CO-192	152	676.00	156	674.17	322.2	0.006	6.0	0.013	0.66	0.0024	6.6
CO-193	338	693.00	339	683.00	782.3	0.013	8.0	0.013	1.08	0.0055	16.8
CO-194	151	675.20	154	663.28	1,070.0	0.011	8.0	0.013	0.97	0.0044	7.2
CO-195	339	683.00	340	688.00	493.5	0.010	8.0	0.013	2.38	0.0981	27.1
CO-196	150	678.72	149	655.42	1,104.9	0.021	6.0	0.013	1.33	0.0053	9.9
CO-197	339	683.00	341	679.33	137.1	0.027	8.0	0.013	3.40	0.1036	34.6
CO-198	149	655.42	163	633.00	909.9	0.025	6.0	0.013	1.62	0.0084	55.5
CO-199	341	679.33	305	678.88	140.1	0.003	12.0	0.013	1.92	0.2215	26.1
CO-200	22	651.05	342	658.95	617.7	0.013	8.0	0.013	1.48	0.0150	11.3
CO-201	41	639.00	39	622.00	438.3	0.039	8.0	0.013	2.39	0.0202	13.2
CO-202	148	680.50	147	659.89	736.3	0.028	6.0	0.013	1.25	0.0031	7.6
CO-203	147	659.89	146	650.80	495.2	0.018	6.0	0.013	1.25	0.0051	9.2
CO-204	146	650.80	145	646.00	329.3	0.015	6.0	0.013	1.26	0.0066	10.8
CO-205	145	646.00	162	634.50	453.5	0.025	6.0	0.013	1.70	0.0095	55.9
CO-206	346	689.42	340	688.00	142.3	0.010	8.0	0.013	2.37	0.0981	25.3
CO-207	347	698.78	346	689.42	937.7	0.010	8.0	0.013	1.13	0.0084	17.2
CO-208	144	672.16	143	662.41	374.8	0.026	6.0	0.013	0.98	0.0015	5.9
CO-209	348	692.79	346	689.42	337.1	0.010	8.0	0.013	2.30	0.0898	26.2
CO-210	143	662.41	142	651.77	460.6	0.023	6.0	0.013	1.21	0.0035	7.6
CO-211	349	697.65	348	692.79	485.6	0.010	8.0	0.013	1.44	0.0183	18.4
CO-212	142	651.77	141	645.63	435.8	0.014	6.0	0.013	1.09	0.0044	8.8
CO-213	350	702.37	349	697.65	472.0	0.010	8.0	0.013	1.16	0.0092	9.7
CO-214	141	645.63	161	636.92	486.9	0.018	6.0	0.013	1.34	0.0064	9.9
CO-215	351	708.52	350	702.37	615.0	0.010	8.0	0.013	1.16	0.0092	7.9
CO-216	140	643.95	160	635.27	617.3	0.014	6.0	0.013	1.37	0.0092	12.8

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CO-217	352	706.17	349	697.65	867.6	0.010	8.0	0.013	1.06	0.0070	9.2
CO-218	139	661.44	140	643.95	789.8	0.022	6.0	0.013	1.58	0.0088	11.4
CO-219	138	669.70	139	661.44	345.6	0.024	6.0	0.013	1.40	0.0055	10.1
CO-220	137	680.00	138	669.70	508.1	0.020	6.0	0.013	1.22	0.0042	8.3
CO-221	353	694.00	348	692.79	652.5	0.002	8.0	0.013	1.17	0.0691	28.2
CO-222	136	684.94	137	680.00	379.1	0.013	6.0	0.013	0.86	0.0022	6.7
CO-223	355	665.60	354	650.64	1,778.9	0.008	8.0	0.013	1.17	0.0112	24.6
CO-224	135	679.62	134	653.27	1,335.1	0.020	6.0	0.013	0.88	0.0015	8.1
CO-225	134	653.27	133	644.00	562.7	0.016	6.0	0.013	1.43	0.0090	10.6
CO-226	133	644.00	12th Street LS (Downtown)	622.00	549.6	0.040	6.0	0.013	1.98	0.0090	9.6
CO-227	356	667.08	320	648.58	2,402.2	0.008	8.0	0.013	1.35	0.0200	27.0
CO-228	132	627.15	12th Street LS (Downtown)	622.00	244.8	0.021	6.0	0.013	1.82	0.0148	13.1
CO-229	357	669.69	358	641.44	1,728.6	0.016	8.0	0.013	1.58	0.0139	30.6
CO-230	131	628.00	132	627.15	405.8	0.002	6.0	0.013	0.81	0.0148	17.4
CO-231	130	629.50	131	628.00	197.5	0.008	8.0	0.013	1.21	0.0143	12.6
CO-232	129	630.50	130	629.50	383.8	0.003	8.0	0.013	0.84	0.0143	11.5
CO-233	128	631.00	129	630.50	153.7	0.003	8.0	0.013	0.78	0.0090	11.4
CO-234	360	665.00	359	651.40	1,183.8	0.011	8.0	0.013	1.06	0.0057	12.5
CO-235	127	632.00	128	631.00	351.8	0.003	8.0	0.013	0.71	0.0076	9.6
CO-236	362	677.92	361	675.46	471.7	0.005	12.0	0.013	2.29	0.2248	24.8
CO-237	126	633.00	127	632.00	344.4	0.003	8.0	0.013	0.69	0.0067	9.1
CO-238	5	689.00	363	715.00	673.2	0.039	8.0	0.013	1.59	0.0053	14.3
CO-239	125	634.00	126	633.00	179.5	0.006	8.0	0.013	0.66	0.0027	6.9
CO-240	364	712.00	2	688.00	890.5	0.027	8.0	0.013	2.06	0.0191	16.5
CO-241	124	634.50	125	634.00	212.1	0.002	8.0	0.013	0.43	0.0018	4.9

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CO-242	365	714.00	364	712.00	276.5	0.007	8.0	0.013	1.21	0.0150	11.0
CO-243	123	635.37	126	633.00	321.6	0.007	8.0	0.013	0.69	0.0022	6.5
CO-244	366	715.00	365	714.00	306.0	0.003	8.0	0.013	0.67	0.0055	9.1
CO-245	122	635.00	127	632.00	178.5	0.017	8.0	0.013	0.57	0.0004	5.6
CO-246	367	726.00	366	715.00	807.7	0.014	8.0	0.013	1.07	0.0048	6.8
CO-247	121	635.41	127	632.00	173.3	0.020	8.0	0.013	0.60	0.0004	5.6
CO-248	368	700.00	7	694.00	460.6	0.013	8.0	0.013	1.43	0.0132	15.1
CO-249	120	635.00	128	631.00	150.1	0.027	8.0	0.013	0.92	0.0013	6.4
CO-250	369	718.00	368	700.00	841.0	0.021	8.0	0.013	1.23	0.0046	7.7
CO-251	119	634.00	126	633.00	500.8	0.002	8.0	0.013	0.41	0.0018	7.0
CO-252	370	713.00	368	700.00	1,071.5	0.012	8.0	0.013	1.11	0.0064	8.2
CO-253	118	627.79	117	626.32	289.7	0.005	8.0	0.013	0.36	0.0004	2.1
CO-254	371	700.00	7	694.00	1,023.4	0.006	8.0	0.013	1.33	0.0260	17.4
CO-255	117	626.32	116	618.45	198.6	0.040	6.0	0.013	0.79	0.0004	6.6
CO-256	372	711.50	371	700.00	310.2	0.037	8.0	0.013	1.86	0.0097	11.2
CO-257	115	621.81	116	618.45	445.2	0.008	6.0	0.013	1.02	0.0071	10.5
CO-258	373	723.00	372	711.50	1,099.7	0.010	8.0	0.013	1.02	0.0057	7.3
CO-259	114	623.31	115	621.81	233.6	0.006	6.0	0.013	0.88	0.0053	9.9
CO-260	374	713.00	372	711.50	582.4	0.003	8.0	0.013	0.52	0.0031	7.3
CO-261	113	628.33	114	623.31	342.6	0.015	6.0	0.013	0.92	0.0024	7.6
CO-262	421	703.00	371	700.00	712.0	0.004	8.0	0.013	0.95	0.0128	12.6
CO-263	375	728.00	421	703.00	1,201.3	0.021	8.0	0.013	1.58	0.0110	9.9
CO-264	1	698.09	376	696.53	355.3	0.004	8.0	0.013	1.18	0.0251	16.9
CO-265	112	615.01	111	611.01	237.9	0.017	6.0	0.013	1.04	0.0031	7.8
CO-266	420	703.53	376	696.53	605.5	0.012	8.0	0.013	1.51	0.0183	15.0
CO-267	377	706.51	420	703.53	298.4	0.010	8.0	0.013	1.31	0.0134	10.5
CO-268	111	611.01	110	608.70	275.6	0.008	6.0	0.013	0.98	0.0055	12.5
CO-269	378	713.85	377	706.51	733.8	0.010	8.0	0.013	1.07	0.0070	8.4
CO-270	110	608.70	109	604.00	344.3	0.014	6.0	0.013	1.65	0.0176	15.0
CO-271	379	714.15	377	706.51	764.5	0.010	8.0	0.013	1.04	0.0064	8.2

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CO-272	380	719.51	378	713.85	565.7	0.010	8.0	0.013	0.73	0.0020	5.4
CO-273	109	604.00	Meadowlands LS	575.00	387.8	0.075	6.0	0.013	3.01	0.0176	12.6
CO-275	116	618.45	108	614.00	188.1	0.024	6.0	0.013	1.58	0.0080	11.5
CO-276	376	696.53	381	694.75	339.3	0.005	8.0	0.013	1.48	0.0433	21.1
CO-277	108	614.00	110	608.70	259.6	0.020	6.0	0.013	1.61	0.0104	14.2
CO-278	381	694.75	382	703.00	251.3	0.033	8.0	0.013	1.81	0.0101	16.0
CO-279	107	614.58	110	608.70	315.6	0.019	6.0	0.013	0.92	0.0018	10.5
CO-280	419	707.83	382	703.00	385.6	0.013	8.0	0.013	1.29	0.0101	8.0
CO-281	383	719.54	419	707.83	1,171.0	0.010	8.0	0.013	1.09	0.0075	7.9
CO-282	418	708.77	381	694.75	473.6	0.030	8.0	0.013	1.77	0.0106	16.0
CO-283	384	719.84	418	708.77	1,106.7	0.010	8.0	0.013	1.08	0.0073	7.9
CO-284	385	685.81	341	679.33	484.7	0.013	12.0	0.013	2.63	0.1179	22.7
CO-285	105	622.00	104	617.00	414.5	0.012	8.0	0.013	0.81	0.0022	4.3
CO-286	386	687.25	385	685.81	641.4	0.002	12.0	0.013	1.41	0.1179	19.9
CO-287	104	617.00	103	615.00	206.6	0.010	8.0	0.013	0.83	0.0031	6.8
CO-288	387	688.61	386	687.25	444.9	0.003	12.0	0.013	1.57	0.1179	21.4
CO-289	103	615.00	102	609.00	1,139.8	0.005	8.0	0.013	0.94	0.0092	8.5
CO-290	388	693.02	390	692.34	257.6	0.003	12.0	0.013	1.49	0.1179	25.2
CO-291	102	609.00	101	608.00	117.7	0.008	8.0	0.013	1.11	0.0092	8.2
CO-292	389	710.00	388	693.02	1,344.6	0.013	8.0	0.013	1.19	0.0077	19.7
CO-293	101	608.00	100	607.00	152.9	0.007	8.0	0.013	1.01	0.0092	10.1
CO-294	100	607.00	99	604.00	533.6	0.006	8.0	0.013	1.16	0.0174	12.2
CO-295	99	604.00	98	600.83	341.8	0.009	8.0	0.013	1.48	0.0222	15.1
CO-296	390	692.34	387	692.22	161.6	0.001	12.0	0.013	0.95	0.1179	23.3
CO-297	98	600.83	97	600.00	397.2	0.002	8.0	0.013	0.90	0.0240	15.6
CO-298	391	695.51	388	693.02	1,082.9	0.002	12.0	0.013	1.39	0.1102	21.3
CO-299	97	600.00	96	597.00	421.0	0.007	8.0	0.013	1.42	0.0262	14.0
CO-300	392	696.28	391	695.51	286.3	0.003	12.0	0.013	1.44	0.1034	20.6
CO-301	96	597.00	95	592.25	458.7	0.010	8.0	0.013	1.67	0.0286	13.6

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-302	393	696.97	392	696.28	250.7	0.003	12.0	0.013	1.43	0.0986	19.6
CO-303	95	592.25	Meadowlands LS	575.00	518.3	0.033	8.0	0.013	2.50	0.0286	12.1
CO-304	394	697.75	393	696.97	281.7	0.003	12.0	0.013	1.42	0.0937	19.1
CO-305	106	619.36	94	614.07	439.9	0.012	6.0	0.013	1.06	0.0046	8.8
CO-306	395	700.29	394	697.75	850.9	0.003	10.0	0.013	1.12	0.0365	18.7
CO-307	94	614.07	100	607.00	458.6	0.015	6.0	0.013	1.27	0.0064	12.7
CO-308	396	702.14	395	700.29	698.9	0.003	10.0	0.013	0.89	0.0191	13.0
CO-309	397	702.95	396	702.14	269.9	0.003	10.0	0.013	0.88	0.0163	10.6
CO-310	93	617.16	99	604.00	836.4	0.016	6.0	0.013	1.10	0.0040	12.2
CO-311	92	615.00	91	604.57	476.8	0.022	6.0	0.013	0.92	0.0015	5.3
CO-312	398	731.00	397	702.95	849.2	0.033	8.0	0.013	1.55	0.0059	9.5
CO-313	91	604.57	96	597.00	216.8	0.035	6.0	0.013	1.26	0.0024	12.5
CO-314	90	635.00	89	634.00	343.2	0.003	8.0	0.013	1.81	0.1849	41.7
CO-315	399	707.85	395	700.29	435.5	0.017	8.0	0.013	1.72	0.0174	14.8
CO-316	89	634.00	88	630.05	411.2	0.010	8.0	0.013	2.80	0.1849	35.3
CO-317	88	630.05	87	625.84	523.1	0.008	8.0	0.013	2.62	0.1849	36.1
CO-318	400	709.00	399	707.85	271.3	0.004	8.0	0.013	1.05	0.0174	11.9
CO-319	87	625.84	189	620.00	375.6	0.016	8.0	0.013	3.32	0.1849	64.3
CO-320	86	669.00	179	665.00	760.4	0.005	6.0	0.013	0.48	0.0009	24.2
CO-321	85	675.00	177	668.00	890.7	0.008	8.0	0.013	2.42	0.1430	33.0
CO-322	401	723.00	394	697.75	1,998.2	0.013	8.0	0.013	2.16	0.0546	24.0
CO-323	84	682.00	85	675.00	564.1	0.012	8.0	0.013	2.83	0.1395	32.3
CO-324	402	741.00	401	723.00	1,418.8	0.013	8.0	0.013	1.63	0.0211	16.0
CO-325	83	686.00	84	682.00	209.2	0.019	8.0	0.013	1.70	0.0150	21.2
CO-326	403	744.00	402	741.00	790.9	0.004	8.0	0.013	0.84	0.0095	11.0
CO-327	82	686.50	83	686.00	151.9	0.003	8.0	0.013	0.91	0.0143	11.3
CO-328	404	755.00	403	744.00	836.8	0.013	8.0	0.013	1.05	0.0048	7.8
CO-329	81	687.00	82	686.50	133.5	0.004	8.0	0.013	0.92	0.0130	11.8
CO-330	405	753.00	403	744.00	588.3	0.015	8.0	0.013	1.10	0.0046	7.7

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-331	80	688.00	83	686.00	320.5	0.006	8.0	0.013	0.45	0.0007	6.4
CO-332	406	732.00	401	723.00	1,155.9	0.008	8.0	0.013	1.58	0.0334	17.6
CO-333	407	736.00	406	732.00	664.2	0.006	8.0	0.013	1.35	0.0264	14.8
CO-334	78	661.50	79	659.00	324.9	0.008	8.0	0.013	1.51	0.0288	14.5
CO-335	408	737.00	407	736.00	270.9	0.004	8.0	0.013	0.96	0.0150	13.2
CO-336	77	662.00	78	661.50	50.3	0.010	8.0	0.013	1.62	0.0275	14.1
CO-337	409	757.00	408	737.00	1,140.8	0.018	8.0	0.013	1.38	0.0086	9.9
CO-338	76	665.00	77	662.00	485.5	0.006	8.0	0.013	1.02	0.0101	11.5
CO-339	410	755.00	408	737.00	1,141.4	0.016	8.0	0.013	1.22	0.0064	9.4
CO-340	75	669.00	76	665.00	475.3	0.008	8.0	0.013	1.07	0.0086	8.3
CO-341	411	740.00	397	702.95	1,072.5	0.035	8.0	0.013	1.85	0.0103	10.5
CO-342	74	672.00	75	669.00	401.4	0.007	8.0	0.013	0.96	0.0068	7.4
CO-346	413	711.00	394	697.75	639.1	0.021	8.0	0.013	1.03	0.0026	16.3
CO-347	414	705.00	393	696.97	610.2	0.013	8.0	0.013	1.06	0.0048	17.4
CO-348	415	702.50	392	696.28	607.9	0.010	8.0	0.013	0.97	0.0048	17.8
CO-349	73	698.00	72	696.00	255.4	0.008	6.0	0.013	0.55	0.0009	4.9
CO-350	416	715.47	4	703.96	1,151.0	0.010	8.0	0.013	1.16	0.0092	8.9
CO-351	72	696.00	71	682.00	576.3	0.024	6.0	0.013	1.12	0.0024	6.9
CO-352	417	712.02	3	700.75	1,127.0	0.010	8.0	0.013	1.13	0.0084	9.0
CO-353	71	682.00	70	674.00	390.1	0.021	8.0	0.013	1.25	0.0051	6.8
CO-354	422	639.60	203	639.30	133.7	0.002	8.0	0.013	0.28	0.0004	23.3
CO-355	70	674.00	69	672.22	263.7	0.007	8.0	0.013	0.95	0.0075	9.2
CO-356	423	643.00	424	625.81	1,116.5	0.015	8.0	0.013	1.88	0.0270	23.1
CO-357	205	613.90	425	612.00	43.1	0.044	8.0	0.013	2.78	0.0297	11.9
CO-358	426	606.67	427	605.83	294.4	0.003	30.0	0.013	2.28	0.6664	14.8
CO-359	427	605.83	428	604.98	300.8	0.003	30.0	0.013	2.28	0.6664	14.2
CO-360	68	691.50	69	672.22	1,223.9	0.016	6.0	0.013	1.13	0.0044	11.1
CO-361	428	604.98	429	604.14	212.1	0.004	30.0	0.013	2.56	0.6664	15.0
CO-362	429	604.14	430	603.75	203.9	0.002	30.0	0.013	1.98	0.6664	17.1
CO-363	67	686.00	66	671.00	1,226.7	0.012	6.0	0.013	1.04	0.0044	11.3

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-364	430	603.75	431	603.57	84.1	0.002	30.0	0.013	2.21	0.8432	19.0
CO-365	431	603.57	432	603.16	317.5	0.001	30.0	0.013	1.85	0.8432	20.0
CO-366	69	672.22	66	671.00	273.5	0.004	8.0	0.013	0.97	0.0125	10.9
CO-367	66	671.00	77	662.00	275.9	0.033	8.0	0.013	2.12	0.0174	12.5
CO-368	432	603.16	433	602.41	556.6	0.001	30.0	0.013	1.88	0.8432	17.4
CO-369	433	602.41	Justin Treatment Plant	596.00	189.0	0.034	30.0	0.013	5.83	0.8432	12.0
CO-370	65	684.00	208	681.50	426.9	0.006	8.0	0.013	0.88	0.0068	8.9
CO-372(1)	438	670.33	460	664.17	1,000.5	0.006	21.0	0.013	2.02	0.1551	9.8
CO-372(2)	460	664.17	435	635.85	4,596.4	0.006	21.0	0.013	2.03	0.1551	9.8
CO-373	64	686.50	65	684.00	448.6	0.006	8.0	0.013	0.75	0.0042	6.8
CO-374	435	635.85	436	628.55	1,213.7	0.006	30.0	0.013	1.91	0.1551	7.0
CO-375	63	691.00	64	686.50	258.3	0.017	8.0	0.013	0.79	0.0013	4.5
CO-376	436	628.55	437	627.00	630.3	0.002	30.0	0.013	1.40	0.1551	7.0
CO-377	62	688.00	64	686.50	95.2	0.016	8.0	0.013	0.55	0.0004	3.9
CO-378(1)	437	627.00	473	626.31	134.1	0.005	30.0	0.013	1.81	0.1551	6.4
CO-378(2)	473	626.31	323	619.50	1,317.2	0.005	30.0	0.013	1.81	0.1551	9.4
CO-379	61	691.00	60	686.00	484.7	0.010	8.0	0.013	0.82	0.0026	5.1
CO-380	240	702.58	337	706.45	884.6	0.004	8.0	0.013	1.16	0.0238	15.3
CO-381	60	686.00	59	683.50	313.1	0.008	8.0	0.013	0.88	0.0048	6.2
CO-382	280	606.77	Timberbrooks LS	606.50	58.8	0.005	12.0	0.013	2.32	0.2776	27.8
CO-383	59	683.50	208	681.50	258.1	0.008	8.0	0.013	0.91	0.0055	8.4
CO-384	439	682.54	441	675.45	178.5	0.040	15.0	0.013	4.08	0.1551	12.3
CO-385	441	675.45	438	670.33	345.8	0.015	15.0	0.013	2.87	0.1551	13.6
CO-386	58	689.97	60	686.00	174.0	0.023	8.0	0.013	0.59	0.0004	3.8
CO-387	440	686.12	439	682.54	300.9	0.012	15.0	0.013	2.67	0.1551	13.9
CO-388	57	681.00	56	668.31	413.5	0.031	8.0	0.013	1.22	0.0029	3.9
CO-390	56	668.31	55	665.37	237.4	0.012	8.0	0.013	0.89	0.0029	5.4

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Conduit Table

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CO-392	54	678.00	55	665.37	306.6	0.041	8.0	0.013	1.24	0.0022	5.1
CO-394	53	677.22	52	666.26	424.4	0.026	8.0	0.013	1.16	0.0031	5.0
CO-396	51	672.00	52	666.26	215.7	0.027	8.0	0.013	0.74	0.0007	3.8
CO-398	50	681.00	49	674.00	385.5	0.018	8.0	0.013	0.98	0.0026	4.6
CO-401	49	674.00	225	669.14	252.1	0.019	8.0	0.013	1.08	0.0035	11.4
CO-408	47	676.59	46	659.46	1,248.2	0.014	8.0	0.013	1.25	0.0081	9.5
CO-410	48	677.33	45	651.86	997.6	0.026	8.0	0.013	1.32	0.0046	9.0
CO-413	46	659.46	344	670.00	702.0	0.015	8.0	0.013	1.15	0.0055	8.9
CO-414	343	670.00	45	651.86	985.0	0.018	8.0	0.013	1.26	0.0059	9.4
CO-416	44	629.32	204	627.53	373.1	0.005	8.0	0.013	1.52	0.0521	20.2
CO-418	45	651.86	43	630.25	914.1	0.024	8.0	0.013	2.02	0.0213	16.6
CO-420	43	630.25	44	629.32	188.0	0.005	8.0	0.013	1.53	0.0521	20.9
CO-422	52	666.26	42	647.00	256.6	0.075	8.0	0.013	1.88	0.0042	4.3
CO-424	42	647.00	41	639.00	365.7	0.022	8.0	0.013	1.21	0.0042	8.7
CO-426	312	645.00	40	641.95	208.3	0.015	8.0	0.013	1.32	0.0090	7.4
CO-428	40	641.95	39	622.00	373.0	0.053	8.0	0.013	2.08	0.0090	11.2
CO-430	39	622.00	205	613.90	413.0	0.020	8.0	0.013	2.10	0.0297	12.9
CO-431	38	621.00	93	617.16	148.3	0.026	6.0	0.013	0.77	0.0007	5.3
CO-432	37	621.00	106	619.36	208.5	0.008	6.0	0.013	0.44	0.0004	5.4
CO-433	36	624.00	108	614.00	405.8	0.025	6.0	0.013	1.05	0.0020	8.8
CO-434	35	624.00	106	619.36	483.3	0.010	6.0	0.013	0.77	0.0022	6.9
CO-435	34	626.99	112	615.01	303.4	0.039	12.0	0.013	1.05	0.0018	2.7
CO-436	33	662.09	183	649.00	1,015.0	0.013	6.0	0.013	0.95	0.0031	27.6
CO-437	32	669.74	182	650.00	1,097.2	0.018	6.0	0.013	1.15	0.0040	32.9
CO-438	31	649.81	171	646.05	291.6	0.013	6.0	0.013	0.65	0.0009	5.4
CO-439	30	641.00	172	639.48	265.3	0.006	6.0	0.013	0.50	0.0009	6.3
CO-440	29	658.29	28	638.00	776.5	0.026	6.0	0.013	1.01	0.0018	5.3
CO-441	28	638.00	27	637.33	55.4	0.012	6.0	0.013	0.84	0.0022	5.5
CO-442	27	637.33	167	629.20	165.0	0.049	6.0	0.013	1.37	0.0022	52.8
CO-443	26	656.00	185	645.00	726.4	0.015	6.0	0.013	1.02	0.0033	26.8

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-444	25	639.27	173	626.80	539.7	0.023	6.0	0.010	1.24	0.0022	52.8
CO-445	24	633.00	131	628.00	139.7	0.036	8.0	0.013	0.71	0.0004	8.4
CO-446	23	632.98	129	630.50	282.6	0.009	8.0	0.013	0.45	0.0004	7.4
CO-447	160	635.27	12th Street LS (Downtown)	622.00	328.5	0.040	8.0	0.013	2.22	0.0157	8.8
CO-448(1)	22	651.05	477	648.99	743.5	0.003	10.0	0.013	0.84	0.0150	9.8
CO-448(2)	477	648.99	292	647.93	381.5	0.003	10.0	0.013	0.84	0.0150	13.0
CO-449	21	641.91	358	641.44	147.6	0.003	12.0	0.013	2.07	0.2959	33.3
CO-450	358	641.44	202	640.44	347.3	0.003	12.0	0.013	2.03	0.3115	33.7
CO-452	20	696.00	19	693.50	751.8	0.003	8.0	0.013	0.40	0.0009	2.9
CO-453	19	693.50	18	688.75	321.3	0.015	8.0	0.013	0.66	0.0009	6.4
CO-454	17	660.12	359	651.40	1,003.1	0.009	8.0	0.013	1.72	0.0396	17.8
CO-455	359	651.40	202	640.44	551.3	0.020	8.0	0.013	2.46	0.0486	34.3
CO-456	18	688.75	81	687.00	325.0	0.005	8.0	0.013	1.04	0.0130	10.9
CO-462	320	648.58	21	641.91	866.7	0.008	12.0	0.013	2.84	0.2959	30.2
CO-464	14	677.74	285	665.28	1,010.6	0.012	8.0	0.013	0.95	0.0037	6.4
CO-465	79	659.00	12th Street LS (Private)	645.00	403.8	0.035	8.0	0.013	2.59	0.0306	12.4
CO-466	13	636.61	12	626.00	1,177.1	0.009	8.0	0.013	0.56	0.0009	3.1
CO-467	12	626.00	114	623.31	227.5	0.012	8.0	0.013	0.75	0.0018	5.3
CO-468	11	635.83	12	626.00	1,238.6	0.008	8.0	0.013	0.53	0.0009	3.1
CO-469	10	611.22	9	600.00	731.6	0.015	10.0	0.013	1.16	0.0060	4.6
CO-470	9	600.00	8	597.00	587.0	0.005	18.0	0.013	0.73	0.0060	20.0
CO-471	8	597.00	Justin Treatment Plant	596.00	132.8	0.008	24.0	0.013	4.33	1.6786	26.3
CO-474	425	609.57	426	606.67	473.4	0.006	30.0	0.013	2.89	0.5975	13.6
CO-475	189	620.00	8	597.00	298.0	0.077	18.0	0.013	10.19	1.6726	30.4
CO-476	7	694.00	6	692.50	512.8	0.003	8.0	0.013	1.17	0.0392	20.3

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-477	6	692.50	5	689.00	1,067.3	0.003	8.0	0.013	1.22	0.0392	21.3
CO-478	4	703.96	1	698.09	835.9	0.007	8.0	0.013	1.15	0.0130	12.4
CO-479	5	689.00	2	688.00	386.2	0.003	8.0	0.013	1.16	0.0444	22.0
CO-480	2	688.00	336	677.25	291.3	0.037	8.0	0.013	3.29	0.0636	17.7
CO-481	3	700.75	1	698.09	564.1	0.005	8.0	0.013	0.98	0.0121	12.7
CO-482	381	694.75	353	694.00	162.1	0.005	8.0	0.013	1.59	0.0640	27.1

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Average Day Flow
FlexTable: Outfall Table

Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Flow (Total Out) (MGD)
Meadowlands LS	600.74	575.00	0.0462
12th Street LS (Private)	666.05	645.00	0.0306
12th Street LS (Downtown)	637.00	622.00	0.0395
Timberbrooks LS	626.50	606.50	0.2776
Justin Treatment Plant	616.27	596.00	2.5218

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
1	710.15	698.09	0.0000	0.1003	0.1003
2	697.00	688.00	0.0000	0.2543	0.2543
3	713.23	700.75	0.0150	0.0334	0.0484
4	715.75	703.96	0.0150	0.0370	0.0519
5	699.00	689.00	0.0000	0.1778	0.1778
6	701.00	692.50	0.0000	0.1566	0.1566
7	701.00	694.00	0.0000	0.1566	0.1566
8	616.65	597.00	0.0000	1.9873	1.9873
9	624.36	600.00	0.0000	0.0240	0.0240
10	615.22	611.22	0.0240	0.0000	0.0240
11	639.83	635.83	0.0036	0.0000	0.0036
12	630.00	626.00	0.0000	0.0072	0.0072
13	640.61	636.61	0.0036	0.0000	0.0036
14	684.46	677.74	0.0150	0.0000	0.0150
15	665.40	656.95	0.0079	1.0375	1.0454
17	672.00	660.12	0.0273	0.1311	0.1584
18	695.45	688.75	0.0484	0.0035	0.0519
19	700.00	693.50	0.0000	0.0035	0.0035
20	702.00	696.00	0.0035	0.0000	0.0035
21	655.88	641.91	0.0000	1.1836	1.1836
22	671.67	651.05	0.0000	0.0600	0.0600
23	636.98	632.98	0.0018	0.0000	0.0018
24	637.85	633.00	0.0018	0.0000	0.0018
25	643.27	639.27	0.0088	0.0000	0.0088
26	663.00	656.00	0.0132	0.0000	0.0132
27	641.33	637.33	0.0000	0.0089	0.0089
28	642.00	638.00	0.0018	0.0071	0.0089
29	662.29	658.29	0.0071	0.0000	0.0071
30	645.00	641.00	0.0036	0.0000	0.0036
31	653.81	649.81	0.0035	0.0000	0.0035
32	681.00	669.74	0.0158	0.0000	0.0158
33	673.00	662.09	0.0123	0.0000	0.0123
34	630.99	626.99	0.0070	0.0000	0.0070
35	628.00	624.00	0.0088	0.0000	0.0088
36	628.00	624.00	0.0079	0.0000	0.0079
37	625.00	621.00	0.0018	0.0000	0.0018
38	625.00	621.00	0.0026	0.0000	0.0026
39	626.00	622.00	0.0018	0.1170	0.1188
40	645.95	641.95	0.0000	0.0361	0.0361
41	646.00	639.00	0.0088	0.0722	0.0810
42	654.00	647.00	0.0000	0.0167	0.0167
43	639.22	630.25	0.0000	0.2086	0.2086
44	635.02	629.32	0.0000	0.2086	0.2086
45	664.58	651.86	0.0202	0.0651	0.0854
46	671.94	659.46	0.0202	0.0546	0.0748
47	683.37	676.59	0.0326	0.0000	0.0326

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
48	683.31	677.33	0.0185	0.0000	0.0185
49	680.62	674.00	0.0035	0.0106	0.0141
50	685.00	681.00	0.0106	0.0000	0.0106
51	679.25	672.00	0.0026	0.0000	0.0026
52	670.26	666.26	0.0018	0.0150	0.0167
53	681.22	677.22	0.0123	0.0000	0.0123
54	682.00	678.00	0.0088	0.0000	0.0088
55	669.37	665.37	0.0026	0.0202	0.0229
56	672.31	668.31	0.0000	0.0114	0.0114
57	685.00	681.00	0.0114	0.0000	0.0114
58	693.97	689.97	0.0018	0.0000	0.0018
59	692.00	683.50	0.0026	0.0194	0.0220
60	693.50	686.00	0.0070	0.0123	0.0194
61	695.00	691.00	0.0106	0.0000	0.0106
62	692.00	688.00	0.0018	0.0000	0.0018
63	695.00	691.00	0.0053	0.0000	0.0053
64	693.29	686.50	0.0097	0.0070	0.0167
65	691.97	684.00	0.0106	0.0167	0.0273
66	675.00	671.00	0.0018	0.0678	0.0695
67	689.00	686.00	0.0176	0.0000	0.0176
68	695.50	691.50	0.0176	0.0000	0.0176
69	676.19	672.22	0.0026	0.0475	0.0502
70	678.00	674.00	0.0097	0.0202	0.0299
71	686.09	682.00	0.0106	0.0097	0.0202
72	700.00	696.00	0.0062	0.0035	0.0097
73	702.00	698.00	0.0035	0.0000	0.0035
74	681.64	672.00	0.0273	0.0000	0.0273
75	684.00	669.00	0.0070	0.0273	0.0343
76	680.71	665.00	0.0062	0.0343	0.0405
77	673.00	662.00	0.0000	0.1100	0.1100
78	673.00	661.50	0.0053	0.1100	0.1153
79	670.00	659.00	0.0070	0.1153	0.1223
80	692.64	688.00	0.0026	0.0000	0.0026
81	697.00	687.00	0.0000	0.0519	0.0519
82	696.89	686.50	0.0053	0.0519	0.0572
83	695.07	686.00	0.0000	0.0598	0.0598
84	692.67	682.00	0.1312	0.0598	0.1910
85	686.04	675.00	0.0141	0.1910	0.2051
86	676.00	669.00	0.0036	0.0000	0.0036
87	629.75	625.84	0.0000	0.1849	0.1849
88	634.05	630.05	0.0000	0.1849	0.1849
89	638.00	634.00	0.0000	0.1849	0.1849
90	639.00	635.00	0.1849	0.0000	0.1849
91	608.57	604.57	0.0035	0.0062	0.0097
92	619.26	615.00	0.0062	0.0000	0.0062
93	621.16	617.16	0.0132	0.0026	0.0158

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
94	618.07	614.07	0.0070	0.0185	0.0255
95	596.25	592.25	0.0000	0.1144	0.1144
96	604.14	597.00	0.0000	0.1144	0.1144
97	604.00	600.00	0.0088	0.0959	0.1047
98	604.83	600.83	0.0070	0.0889	0.0959
99	615.32	604.00	0.0035	0.0854	0.0889
100	613.82	607.00	0.0070	0.0625	0.0695
101	613.00	608.00	0.0000	0.0370	0.0370
102	612.36	609.00	0.0000	0.0370	0.0370
103	617.60	615.00	0.0246	0.0123	0.0370
104	623.40	617.00	0.0035	0.0088	0.0123
105	630.59	622.00	0.0088	0.0000	0.0088
106	623.36	619.36	0.0079	0.0106	0.0185
107	618.58	614.58	0.0070	0.0000	0.0070
108	618.00	614.00	0.0018	0.0397	0.0415
109	608.00	604.00	0.0000	0.0705	0.0705
110	612.70	608.70	0.0000	0.0705	0.0705
111	615.01	611.01	0.0097	0.0123	0.0220
112	619.01	615.01	0.0053	0.0070	0.0123
113	632.33	628.33	0.0097	0.0000	0.0097
114	627.31	623.31	0.0044	0.0169	0.0213
115	625.81	621.81	0.0070	0.0213	0.0283
116	622.45	618.45	0.0018	0.0301	0.0318
117	630.32	626.32	0.0000	0.0018	0.0018
118	631.79	627.79	0.0018	0.0000	0.0018
119	636.30	634.00	0.0072	0.0000	0.0072
120	639.00	635.00	0.0054	0.0000	0.0054
121	638.41	635.41	0.0018	0.0000	0.0018
122	638.00	635.00	0.0018	0.0000	0.0018
123	639.37	635.37	0.0090	0.0000	0.0090
124	637.33	634.50	0.0072	0.0000	0.0072
125	639.71	634.00	0.0036	0.0072	0.0108
126	640.00	633.00	0.0000	0.0269	0.0269
127	638.00	632.00	0.0000	0.0305	0.0305
128	638.00	631.00	0.0000	0.0359	0.0359
129	639.00	630.50	0.0197	0.0376	0.0574
130	638.52	629.50	0.0000	0.0574	0.0574
131	638.93	628.00	0.0000	0.0592	0.0592
132	631.15	627.15	0.0000	0.0592	0.0592
133	648.00	644.00	0.0000	0.0361	0.0361
134	657.27	653.27	0.0300	0.0062	0.0361
135	683.62	679.62	0.0062	0.0000	0.0062
136	688.94	684.94	0.0088	0.0000	0.0088
137	684.00	680.00	0.0079	0.0088	0.0167
138	673.70	669.70	0.0053	0.0167	0.0220
139	665.44	661.44	0.0132	0.0220	0.0352

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
140	647.95	643.95	0.0018	0.0352	0.0370
141	649.63	645.63	0.0080	0.0176	0.0256
142	655.77	651.77	0.0035	0.0141	0.0176
143	666.41	662.41	0.0079	0.0062	0.0141
144	676.16	672.16	0.0062	0.0000	0.0062
145	650.00	646.00	0.0116	0.0264	0.0380
146	654.80	650.80	0.0062	0.0203	0.0264
147	663.89	659.89	0.0080	0.0123	0.0203
148	684.50	680.50	0.0123	0.0000	0.0123
149	659.42	655.42	0.0125	0.0212	0.0336
150	682.72	678.72	0.0212	0.0000	0.0212
151	679.20	675.20	0.0176	0.0000	0.0176
152	680.00	676.00	0.0097	0.0000	0.0097
153	642.65	631.50	0.0036	1.3941	1.3977
154	667.28	663.28	0.0160	0.0291	0.0450
155	671.41	667.41	0.0000	0.0114	0.0114
156	678.17	674.17	0.0000	0.0114	0.0114
157	678.92	674.92	0.0018	0.0000	0.0018
158	642.00	630.50	0.0036	1.4136	1.4172
159	674.11	670.11	0.0159	0.0000	0.0159
160	639.27	635.27	0.0000	0.0626	0.0626
161	641.92	636.92	0.0000	0.0256	0.0256
162	644.00	634.50	1.2739	0.0380	1.3119
163	643.00	633.00	0.0036	1.3455	1.3491
164	641.74	631.00	0.0000	1.3977	1.3977
165	643.00	630.00	0.0000	1.4172	1.4172
166	641.00	629.50	0.0000	1.4172	1.4172
167	640.87	629.20	0.0018	1.4261	1.4279
168	639.51	628.50	0.0000	1.4481	1.4481
169	669.64	665.64	0.0070	0.0000	0.0070
170	657.00	653.00	0.0018	0.0070	0.0088
171	650.05	646.05	0.0018	0.0123	0.0141
172	643.48	639.48	0.0026	0.0176	0.0203
173	638.23	626.80	0.0000	1.4569	1.4569
174	657.00	645.64	0.0114	0.0000	0.0114
175	689.00	679.19	0.0114	0.0000	0.0114
176	676.00	669.00	0.0009	0.0114	0.0123
177	675.00	668.00	0.0000	0.2174	0.2174
178	675.00	666.00	0.0000	0.2174	0.2174
179	675.00	665.00	0.0053	0.2210	0.2263
180	668.00	661.00	0.0123	0.2263	0.2386
181	657.00	651.00	0.0018	0.2386	0.2404
182	656.00	650.00	0.0044	0.2562	0.2606
183	656.00	649.00	0.0009	0.2729	0.2738
184	655.00	648.00	0.0026	0.2738	0.2764
185	655.00	645.00	0.0062	0.2896	0.2958

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
186	650.00	640.10	0.0053	0.3072	0.3125
187	636.81	625.80	0.0036	0.3125	0.3161
188	634.90	625.00	0.0000	1.7730	1.7730
189	630.12	620.00	0.0000	1.9633	1.9633
190	633.16	624.00	0.0054	1.7730	1.7784
191	642.00	630.32	0.0229	0.0000	0.0229
192	639.34	635.34	0.0220	0.0000	0.0220
193	661.00	650.50	0.0510	0.0000	0.0510
194	663.00	656.00	0.0581	0.0000	0.0581
195	652.00	645.00	0.0229	0.1091	0.1320
196	660.00	653.00	0.0370	0.0000	0.0370
197	643.00	631.95	0.0035	0.0370	0.0405
198	641.00	630.48	0.0009	0.1725	0.1734
199	640.00	629.51	0.0000	0.1954	0.1954
200	640.00	629.00	0.0361	0.1954	0.2314
201	640.00	628.50	0.0035	0.2543	0.2578
202	657.86	640.44	0.0000	1.4406	1.4406
203	651.68	639.30	0.0000	1.4424	1.4424
204	635.35	627.53	0.0000	0.2086	0.2086
205	627.03	613.90	0.0000	0.1188	0.1188
206	642.00	630.70	0.0176	0.0000	0.0176
207	637.00	626.60	0.0000	0.2754	0.2754
208	692.00	681.50	0.0044	0.0493	0.0537
209	691.63	687.63	0.0035	0.0000	0.0035
210	692.87	688.87	0.0035	0.0000	0.0035
211	692.00	686.00	0.0053	0.0070	0.0123
212	688.97	680.00	0.0035	0.0660	0.0695
213	682.39	678.39	0.0026	0.0695	0.0722
214	678.00	673.10	0.0035	0.0722	0.0757
215	694.00	690.00	0.0150	0.0000	0.0150
216	684.36	672.00	0.0035	0.0906	0.0942
217	691.85	687.85	0.0176	0.0000	0.0176
218	685.00	670.90	0.0035	0.1118	0.1153
219	693.50	689.42	0.0018	0.0000	0.0018
220	692.65	688.63	0.0070	0.0018	0.0088
221	687.02	683.02	0.0026	0.0088	0.0114
222	680.80	676.80	0.0044	0.0114	0.0158
223	688.76	684.76	0.0167	0.0000	0.0167
224	681.00	669.80	0.0018	0.1320	0.1338
225	678.34	669.14	0.0009	0.1478	0.1487
226	675.00	668.49	0.0009	0.1646	0.1654
227	675.00	668.10	0.0000	0.1654	0.1654
228	667.43	663.43	0.0000	0.1654	0.1654
229	660.66	656.66	0.0000	0.1654	0.1654
230	652.07	648.07	0.0000	0.3814	0.3814
231	617.00	613.00	0.0000	0.7073	0.7073

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
232	623.02	619.02	0.0000	0.7073	0.7073
233	634.54	630.54	0.0018	0.5957	0.5975
234	642.74	633.00	0.0018	0.5939	0.5957
235	645.01	634.00	0.0054	0.5885	0.5939
236	646.60	637.50	0.0000	0.5885	0.5885
237	646.27	637.60	0.0000	0.5885	0.5885
238	649.49	645.49	0.0054	0.2017	0.2071
239	654.00	647.00	0.0018	0.1999	0.2017
240	715.79	702.58	0.0202	0.0950	0.1153
241	713.78	701.32	0.0308	0.1153	0.1461
242	707.86	697.69	0.0000	0.2112	0.2112
243	708.74	696.43	0.0255	0.2112	0.2367
244	709.51	694.41	0.0370	0.2367	0.2737
245	697.57	685.41	0.0026	0.2948	0.2974
246	702.25	695.20	0.0211	0.0000	0.0211
247	699.14	684.09	0.0035	0.3344	0.3379
248	693.35	682.77	0.0035	0.3898	0.3934
249	683.16	672.11	0.0018	0.4022	0.4039
250	668.43	660.38	0.0062	0.4171	0.4233
251	690.59	684.04	0.0132	0.0000	0.0132
252	656.00	647.39	0.0000	0.7383	0.7383
253	652.94	646.89	0.0000	0.7383	0.7383
254	628.48	619.55	0.0035	0.8765	0.8800
255	634.67	627.08	0.0158	0.0000	0.0158
256	651.29	640.84	0.0070	0.1100	0.1170
257	679.35	670.87	0.0202	0.0000	0.0202
258	659.57	648.16	0.0044	0.0854	0.0898
259	661.88	652.60	0.0097	0.0387	0.0484
260	685.49	673.84	0.0220	0.0167	0.0387
261	702.55	696.00	0.0167	0.0000	0.0167
262	684.59	677.53	0.0370	0.0000	0.0370
263	666.17	658.54	0.0132	0.0273	0.0405
264	642.59	634.66	0.0035	0.0537	0.0572
265	671.57	665.52	0.0132	0.0000	0.0132
266	638.66	628.22	0.0070	0.0845	0.0915
267	653.78	643.95	0.0079	0.0194	0.0273
268	654.48	647.43	0.0194	0.0000	0.0194
269	653.36	646.31	0.0141	0.0000	0.0141
270	626.58	617.80	0.0106	0.9398	0.9504
271	661.10	652.34	0.0414	0.0000	0.0414
272	627.49	618.69	0.0044	0.9214	0.9258
273	632.66	615.97	0.0114	0.9645	0.9759
274	646.22	640.17	0.0141	0.0000	0.0141
275	626.83	614.51	0.0035	1.0674	1.0710
276	626.86	613.48	0.0158	1.0806	1.0965
277	623.97	610.89	0.0000	1.1106	1.1106

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
278	628.22	622.17	0.0141	0.0000	0.0141
279	629.72	623.67	0.0097	0.0000	0.0097
280	624.65	606.77	0.0000	1.1106	1.1106
281	621.00	607.50	0.0000	0.0000	0.0000
282	680.94	673.59	0.0088	0.0000	0.0088
283	713.91	705.91	0.0370	0.0000	0.0370
284	709.71	699.50	0.0651	0.0000	0.0651
285	676.69	665.28	0.0000	0.0238	0.0238
286	684.35	677.74	0.0678	0.0000	0.0678
287	686.89	679.40	0.0088	0.0000	0.0088
288	681.88	675.31	0.0220	0.0000	0.0220
289	674.27	661.54	0.0000	0.0634	0.0634
290	680.15	662.79	0.0088	0.0326	0.0414
291	678.42	664.04	0.0088	0.0238	0.0326
292	657.93	647.93	0.0000	0.1999	0.1999
293	688.12	680.00	0.0202	0.0000	0.0202
294	685.74	675.28	0.0044	0.0317	0.0361
295	686.10	677.87	0.0114	0.0000	0.0114
296	686.35	674.16	0.0035	0.0422	0.0458
297	686.50	679.94	0.0062	0.0000	0.0062
298	687.19	673.27	0.0044	0.0493	0.0537
299	687.72	680.79	0.0035	0.0000	0.0035
300	683.66	672.05	0.0202	0.0669	0.0871
301	689.48	683.51	0.0132	0.0000	0.0132
302	674.98	667.28	0.0000	0.1399	0.1399
303	688.39	683.19	0.0229	0.0000	0.0229
304	690.09	684.74	0.0299	0.0000	0.0299
305	692.12	678.88	0.0000	0.8862	0.8862
306	677.34	663.81	0.0141	0.9363	0.9504
307	673.34	665.85	0.0317	0.0554	0.0871
308	685.55	677.81	0.0194	0.0000	0.0194
309	683.15	668.86	0.0361	0.0000	0.0361
310	672.84	665.47	0.0088	0.0000	0.0088
311	673.46	666.46	0.0554	0.0000	0.0554
312	652.00	645.00	0.0361	0.0000	0.0361
313	655.00	649.00	0.0000	0.2160	0.2160
314	660.00	656.00	0.0000	0.1620	0.1620
315	665.00	658.50	0.0000	0.1080	0.1080
316	671.00	664.00	0.0540	0.0000	0.0540
317	677.00	670.00	0.0540	0.0000	0.0540
318	670.00	663.00	0.0540	0.0000	0.0540
319	673.00	667.00	0.0540	0.0000	0.0540
320	659.72	648.58	0.0070	1.1766	1.1836
321	652.90	639.66	0.0000	1.4406	1.4406
322	661.52	651.66	0.0000	0.1399	0.1399
323	642.14	619.50	0.0000	2.0628	2.0628

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
324	644.75	634.24	0.0484	0.0748	0.1232
325	669.84	662.79	0.0273	0.0000	0.0273
326	631.39	620.64	0.0053	0.1170	0.1223
327	667.06	660.05	0.0000	0.3150	0.3150
328	687.80	678.10	0.0079	0.0528	0.0607
329	703.09	695.12	0.0185	0.0343	0.0528
330	707.36	699.70	0.0158	0.0185	0.0343
331	712.25	705.20	0.0079	0.0106	0.0185
332	716.88	709.51	0.0106	0.0000	0.0106
333	715.72	708.81	0.0519	0.0000	0.0519
334	665.00	656.25	0.0000	0.3150	0.3150
335	663.00	657.00	0.0000	0.3150	0.3150
336	697.70	677.25	0.0000	0.2543	0.2543
337	714.42	706.45	0.0950	0.0000	0.0950
338	701.95	693.00	0.0220	0.0000	0.0220
339	698.12	683.00	0.0000	0.4145	0.4145
340	699.36	688.00	0.0000	0.3925	0.3925
341	692.05	679.33	0.0000	0.8862	0.8862
342	679.00	658.95	0.0600	0.0000	0.0600
343	676.08	670.00	0.0238	0.0000	0.0238
344	676.08	670.00	0.0220	0.0000	0.0220
345	635.35	614.98	0.0000	2.2713	2.2713
346	700.78	689.42	0.0000	0.3925	0.3925
347	710.14	698.78	0.0334	0.0000	0.0334
348	704.15	692.79	0.0097	0.3494	0.3590
349	709.01	697.65	0.0079	0.0651	0.0730
350	713.82	702.37	0.0000	0.0370	0.0370
351	719.97	708.52	0.0370	0.0000	0.0370
352	717.53	706.17	0.0282	0.0000	0.0282
353	710.67	694.00	0.0202	0.2561	0.2763
354	666.25	650.64	0.0062	1.0903	1.0965
355	675.60	665.60	0.0449	0.0000	0.0449
356	674.28	667.08	0.0801	0.0000	0.0801
357	676.69	669.69	0.0554	0.0000	0.0554
358	656.32	641.44	0.0070	1.2390	1.2461
359	660.14	651.40	0.0132	0.1813	0.1945
360	672.00	665.00	0.0229	0.0000	0.0229
361	685.85	675.46	0.0282	0.8994	0.9275
362	693.00	677.92	0.0132	0.8862	0.8994
363	722.00	715.00	0.0211	0.0000	0.0211
364	719.00	712.00	0.0167	0.0598	0.0766
365	721.00	714.00	0.0378	0.0220	0.0598
366	722.00	715.00	0.0026	0.0194	0.0220
367	733.00	726.00	0.0194	0.0000	0.0194
368	707.00	700.00	0.0088	0.0440	0.0528
369	725.00	718.00	0.0185	0.0000	0.0185

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
370	720.00	713.00	0.0255	0.0000	0.0255
371	713.00	700.00	0.0141	0.0898	0.1038
372	725.00	711.50	0.0035	0.0352	0.0387
373	733.00	723.00	0.0229	0.0000	0.0229
374	720.00	713.00	0.0123	0.0000	0.0123
375	735.00	728.00	0.0440	0.0000	0.0440
376	707.53	696.53	0.0000	0.1734	0.1734
377	713.51	706.51	0.0000	0.0537	0.0537
378	720.85	713.85	0.0202	0.0079	0.0282
379	721.15	714.15	0.0255	0.0000	0.0255
380	726.51	719.51	0.0079	0.0000	0.0079
381	710.66	694.75	0.0000	0.2561	0.2561
382	713.18	703.00	0.0000	0.0405	0.0405
383	726.54	719.54	0.0299	0.0000	0.0299
384	726.84	719.84	0.0290	0.0000	0.0290
385	700.22	685.81	0.0000	0.4717	0.4717
386	699.66	687.25	0.0000	0.4717	0.4717
387	698.53	688.61	0.0000	0.4717	0.4717
388	703.57	693.02	0.0000	0.4717	0.4717
389	716.39	710.00	0.0308	0.0000	0.0308
390	699.69	692.34	0.0000	0.4717	0.4717
391	704.97	695.51	0.0273	0.4136	0.4409
392	706.84	696.28	0.0000	0.4136	0.4136
393	708.51	696.97	0.0000	0.3942	0.3942
394	711.52	697.75	0.0000	0.3749	0.3749
395	718.37	700.29	0.0000	0.1461	0.1461
396	714.19	702.14	0.0114	0.0651	0.0766
397	715.00	702.95	0.0000	0.0651	0.0651
398	741.00	731.00	0.0238	0.0000	0.0238
399	716.82	707.85	0.0000	0.0695	0.0695
400	718.39	709.00	0.0695	0.0000	0.0695
401	730.00	723.00	0.0000	0.2182	0.2182
402	748.00	741.00	0.0466	0.0378	0.0845
403	751.00	744.00	0.0000	0.0378	0.0378
404	762.00	755.00	0.0194	0.0000	0.0194
405	760.00	753.00	0.0185	0.0000	0.0185
406	739.00	732.00	0.0282	0.1056	0.1338
407	744.00	736.00	0.0458	0.0598	0.1056
408	744.00	737.00	0.0000	0.0598	0.0598
409	764.00	757.00	0.0343	0.0000	0.0343
410	762.00	755.00	0.0255	0.0000	0.0255
411	748.00	740.00	0.0414	0.0000	0.0414
412	650.00	638.43	0.0000	0.3814	0.3814
413	715.92	711.00	0.0106	0.0000	0.0106
414	712.20	705.00	0.0194	0.0000	0.0194
415	709.79	702.50	0.0194	0.0000	0.0194

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
416	722.47	715.47	0.0370	0.0000	0.0370
417	719.02	712.02	0.0334	0.0000	0.0334
418	717.45	708.77	0.0132	0.0290	0.0422
419	720.47	707.83	0.0106	0.0299	0.0405
420	716.20	703.53	0.0194	0.0537	0.0730
421	710.00	703.00	0.0070	0.0440	0.0510
422	647.57	639.60	0.0018	0.0000	0.0018
423	650.00	643.00	0.1080	0.0000	0.1080
424	629.82	625.81	0.0018	0.7055	0.7073
425	625.31	609.57	0.0000	2.3901	2.3901
426	621.61	606.67	0.0000	2.6656	2.6656
427	619.19	605.83	0.0000	2.6656	2.6656
428	617.08	604.98	0.0000	2.6656	2.6656
429	617.43	604.14	0.0000	2.6656	2.6656
430	614.23	603.75	0.0000	3.3728	3.3728
431	613.00	603.57	0.0000	3.3728	3.3728
432	611.00	603.16	0.0000	3.3728	3.3728
433	611.23	602.41	0.0000	3.3728	3.3728
434	704.25	688.76	0.0000	0.0000	0.0000
435	657.20	635.85	0.0000	0.6204	0.6204
436	649.22	628.55	0.0000	0.6204	0.6204
437	642.58	627.00	0.0000	0.6204	0.6204
438	688.44	670.33	0.0000	0.6204	0.6204
439	696.60	682.54	0.0000	0.6204	0.6204
440	698.97	686.12	0.6204	0.0000	0.6204
441	691.08	675.45	0.0000	0.6204	0.6204
460	682.86	664.17	0.0000	0.6204	0.6204
473	642.54	626.31	0.0000	0.6204	0.6204
474	651.00	627.00	0.0000	0.0000	0.0000
477	662.59	648.99	0.0000	0.0600	0.0600
488	621.06	600.07	0.0000	0.0000	0.0000
489	668.34	664.34	0.0000	0.0000	0.0000
491	620.67	607.00	0.0000	0.0000	0.0000
492	612.00	604.00	0.0000	0.0000	0.0000
493	617.21	603.50	0.0000	0.0000	0.0000
494	621.75	602.00	0.0000	0.0000	0.0000
495	615.51	603.00	0.0000	0.0000	0.0000
496	729.11	722.11	0.0000	0.0000	0.0000
497	655.41	644.22	0.0000	0.0000	0.0000
498	660.78	650.78	0.0000	0.0000	0.0000
499	656.22	645.50	0.0000	0.0000	0.0000

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-1	240	702.58	241	701.32	291.4	0.004	8.0	0.013	1.84	0.1153	34.4
CO-2	241	701.32	242	697.69	852.2	0.004	8.0	0.013	1.95	0.1461	40.6
CO-3	242	697.69	243	696.43	290.7	0.004	8.0	0.013	2.17	0.2112	45.1
CO-4	243	696.43	244	694.41	398.9	0.005	8.0	0.013	2.37	0.2367	45.8
CO-5	239	647.00	238	645.49	401.5	0.004	10.0	0.013	2.01	0.2017	31.1
CO-6	244	694.41	245	685.41	1,382.5	0.007	8.0	0.013	2.70	0.2737	47.6
CO-7	238	645.49	237	637.60	411.9	0.019	10.0	0.013	3.61	0.2071	38.7
CO-8	245	685.41	246	695.20	1,204.2	0.008	8.0	0.013	1.40	0.0211	30.7
CO-9	237	637.60	236	637.50	8.5	0.012	12.0	0.013	4.02	0.5885	37.0
CO-10	245	685.41	247	684.09	317.3	0.004	10.0	0.013	2.31	0.2974	40.5
CO-11	236	637.50	235	634.00	466.8	0.007	12.0	0.013	3.42	0.5885	43.3
CO-12	247	684.09	248	682.77	308.0	0.004	10.0	0.013	2.42	0.3379	41.4
CO-13	235	634.00	234	633.00	295.1	0.003	12.0	0.013	2.56	0.5939	43.4
CO-14	248	682.77	249	672.11	314.3	0.034	10.0	0.013	5.33	0.3934	41.4
CO-15	234	633.00	233	630.54	378.4	0.007	12.0	0.013	3.25	0.5957	40.3
CO-16	249	672.11	250	660.38	321.6	0.036	10.0	0.013	5.51	0.4039	42.2
CO-17	250	660.38	251	684.04	730.2	0.032	8.0	0.013	1.95	0.0132	31.5
CO-18	233	630.54	424	625.81	140.6	0.034	12.0	0.013	5.88	0.5975	42.2
CO-19	424	625.81	232	619.02	202.2	0.034	12.0	0.013	6.17	0.7073	35.9
CO-20	232	619.02	231	613.00	312.8	0.019	12.0	0.013	5.05	0.7073	38.0
CO-21	250	660.38	252	647.39	332.3	0.039	10.0	0.013	5.73	0.4233	59.5
CO-22	231	613.00	430	605.89	258.6	0.027	12.0	0.013	5.75	0.7073	36.6
CO-23	252	647.39	253	646.89	158.8	0.003	10.0	0.013	2.56	0.7383	66.7
CO-24	253	646.89	254	619.55	3,440.3	0.008	10.0	0.013	3.72	0.7383	65.9
CO-25	230	648.07	412	638.43	266.7	0.036	10.0	0.013	5.40	0.3814	45.8
CO-26	412	638.43	237	637.60	309.3	0.003	10.0	0.013	2.10	0.3814	49.6
CO-27	229	656.66	230	648.07	315.5	0.027	10.0	0.013	3.83	0.1654	33.4
CO-28	255	627.08	254	619.55	590.6	0.013	8.0	0.013	1.50	0.0158	52.0
CO-29	228	663.43	229	656.66	460.3	0.015	10.0	0.013	3.08	0.1654	23.6
CO-30	256	640.84	326	620.64	295.6	0.068	8.0	0.013	4.91	0.1170	31.2

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-31	227	668.10	228	663.43	339.0	0.014	10.0	0.013	3.01	0.1654	23.8
CO-32	257	670.87	256	640.84	980.6	0.031	8.0	0.013	2.20	0.0202	20.6
CO-33	226	668.49	227	668.10	100.5	0.004	10.0	0.013	1.92	0.1654	27.8
CO-34	258	648.16	256	640.84	303.2	0.024	8.0	0.013	3.14	0.0898	27.4
CO-35	225	669.14	226	668.49	136.6	0.005	8.0	0.013	2.04	0.1487	36.3
CO-36	259	652.60	258	648.16	309.8	0.014	8.0	0.013	2.18	0.0484	22.1
CO-37	224	669.80	225	669.14	134.9	0.005	8.0	0.013	2.00	0.1338	34.8
CO-38	260	673.84	259	652.60	1,053.0	0.020	8.0	0.013	2.30	0.0387	17.6
CO-39	223	684.76	224	669.80	689.2	0.022	6.0	0.013	1.91	0.0167	30.3
CO-40	260	673.84	261	696.00	818.6	0.027	8.0	0.013	1.99	0.0167	13.7
CO-41	262	677.53	258	648.16	1,100.3	0.027	8.0	0.013	2.50	0.0370	20.9
CO-42	222	676.80	226	668.49	423.1	0.020	8.0	0.013	1.75	0.0158	23.6
CO-43	263	658.54	264	634.66	516.9	0.046	8.0	0.013	3.12	0.0405	18.7
CO-44	221	683.02	222	676.80	213.6	0.029	8.0	0.013	1.80	0.0114	9.8
CO-45	265	665.52	264	634.66	750.4	0.041	8.0	0.013	2.12	0.0132	15.0
CO-46	220	688.63	221	683.02	487.0	0.012	8.0	0.013	1.20	0.0088	8.4
CO-47	266	628.22	264	634.66	293.0	0.022	8.0	0.013	2.66	0.0572	23.1
CO-48	219	689.42	220	688.63	193.8	0.004	6.0	0.013	0.54	0.0018	8.3
CO-49	267	643.95	266	628.22	481.0	0.033	8.0	0.013	2.44	0.0273	19.9
CO-50	218	670.90	224	669.80	266.6	0.004	8.0	0.013	1.81	0.1153	33.1
CO-51	268	647.43	267	643.95	694.3	0.005	8.0	0.013	1.15	0.0194	13.4
CO-52	217	687.85	218	670.90	698.4	0.024	6.0	0.013	2.02	0.0176	29.8
CO-53	269	646.31	270	617.80	581.9	0.049	8.0	0.013	2.30	0.0141	52.4
CO-54	272	618.69	271	652.34	1,548.7	0.022	8.0	0.013	2.41	0.0414	57.1
CO-55	216	672.00	218	670.90	232.2	0.005	8.0	0.013	1.79	0.0942	30.5
CO-56	254	619.55	272	618.69	296.6	0.003	12.0	0.013	2.65	0.8800	63.4
CO-57	215	690.00	216	672.00	860.3	0.021	8.0	0.013	1.76	0.0150	19.3
CO-58	272	618.69	270	617.80	309.2	0.003	12.0	0.013	2.67	0.9258	63.9
CO-59	270	617.80	273	615.97	565.7	0.003	12.0	0.013	2.81	0.9504	64.6
CO-60	214	673.10	216	672.00	245.5	0.004	8.0	0.013	1.65	0.0757	27.0

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-61	274	640.17	273	615.97	796.6	0.030	8.0	0.013	1.95	0.0141	54.5
CO-62	213	678.39	214	673.10	185.1	0.029	8.0	0.013	3.13	0.0722	24.3
CO-63	273	615.97	275	614.51	486.5	0.003	12.0	0.013	2.74	0.9759	66.3
CO-64	212	680.00	213	678.39	304.2	0.005	8.0	0.013	1.71	0.0695	23.2
CO-65	266	628.22	275	614.51	553.2	0.025	8.0	0.013	3.19	0.0915	62.9
CO-66	211	686.00	212	680.00	267.7	0.022	8.0	0.013	1.68	0.0123	16.5
CO-67	275	614.51	276	613.48	291.9	0.004	12.0	0.013	2.98	1.0710	66.8
CO-68	210	688.87	211	686.00	157.2	0.018	6.0	0.013	1.12	0.0035	9.8
CO-69	276	613.48	277	610.89	710.4	0.004	12.0	0.013	3.04	1.0965	61.3
CO-70	209	687.63	211	686.00	83.5	0.020	8.0	0.013	1.09	0.0035	7.1
CO-71	278	622.17	277	610.89	673.5	0.017	8.0	0.013	1.60	0.0141	46.8
CO-72	208	681.50	212	680.00	253.8	0.006	8.0	0.013	1.65	0.0537	21.9
CO-73	279	623.67	276	613.48	406.8	0.025	8.0	0.013	1.62	0.0097	54.1
CO-74	277	610.89	280	606.77	365.3	0.011	12.0	0.013	4.70	1.1106	59.1
CO-77	282	673.59	249	672.11	326.8	0.005	8.0	0.013	0.87	0.0088	30.5
CO-78	283	705.91	247	684.09	1,330.0	0.016	8.0	0.013	2.11	0.0370	34.2
CO-81	207	626.60	426	612.04	307.7	0.047	8.0	0.013	5.53	0.2754	36.5
CO-82	284	699.50	242	697.69	287.2	0.006	8.0	0.013	1.78	0.0651	33.3
CO-83	206	630.70	207	626.60	911.8	0.004	8.0	0.013	1.08	0.0176	29.1
CO-85	345	614.98	425	609.57	1,421.9	0.004	30.0	0.013	3.63	2.2713	25.2
CO-86	289	661.54	17	660.12	285.9	0.005	8.0	0.013	1.62	0.0634	28.6
CO-87	204	627.53	345	626.00	36.4	0.042	8.0	0.013	4.90	0.2086	32.0
CO-88	286	677.74	17	660.12	2,621.1	0.007	8.0	0.013	1.85	0.0678	28.2
CO-89	202	640.44	321	639.66	250.2	0.003	15.0	0.013	3.09	1.4406	56.1
CO-90	201	628.50	207	626.60	240.3	0.008	8.0	0.013	2.85	0.2578	44.9
CO-91	285	665.28	287	679.40	594.4	0.024	8.0	0.013	1.55	0.0088	11.3
CO-92	200	629.00	201	628.50	107.3	0.005	8.0	0.013	2.28	0.2314	45.1
CO-93	288	675.31	289	661.54	1,167.4	0.012	8.0	0.013	1.61	0.0220	17.7
CO-94	199	629.51	200	629.00	270.2	0.002	8.0	0.013	1.56	0.1954	50.2
CO-95	289	661.54	290	662.79	297.0	0.004	8.0	0.013	1.35	0.0414	21.1

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-96	198	630.48	199	629.51	271.9	0.004	8.0	0.013	1.92	0.1734	48.3
CO-97	197	631.95	198	630.48	272.7	0.005	8.0	0.013	1.47	0.0405	30.1
CO-98	285	665.28	291	664.04	295.7	0.004	8.0	0.013	1.15	0.0238	15.9
CO-99	196	653.00	197	631.95	1,538.4	0.014	8.0	0.013	1.98	0.0370	17.1
CO-100	291	664.04	290	662.79	284.2	0.004	8.0	0.013	1.28	0.0326	18.2
CO-101	292	647.93	239	647.00	246.9	0.004	10.0	0.013	2.00	0.1999	32.7
CO-102	293	680.00	294	675.28	929.8	0.005	8.0	0.013	1.17	0.0202	15.7
CO-103	295	677.87	294	675.28	357.4	0.007	8.0	0.013	1.12	0.0114	13.7
CO-104	294	675.28	296	674.16	282.6	0.004	8.0	0.013	1.27	0.0361	18.9
CO-105	297	679.94	296	679.00	235.5	0.004	8.0	0.013	0.75	0.0062	7.2
CO-106	195	645.00	198	630.48	884.8	0.016	8.0	0.013	3.07	0.1320	36.7
CO-107	296	674.16	298	673.27	174.1	0.005	8.0	0.013	1.49	0.0458	20.6
CO-108	299	680.79	298	680.00	199.7	0.004	8.0	0.013	0.63	0.0035	5.5
CO-109	194	656.00	195	645.00	692.6	0.016	8.0	0.013	2.39	0.0581	25.8
CO-110	298	673.27	300	672.05	278.6	0.004	8.0	0.013	1.48	0.0537	23.5
CO-111	193	650.50	195	645.00	914.5	0.006	8.0	0.013	1.63	0.0510	25.4
CO-112	301	683.51	300	672.05	815.0	0.014	8.0	0.013	1.47	0.0132	17.4
CO-113	300	672.05	302	667.28	751.5	0.006	8.0	0.013	1.94	0.0871	28.7
CO-114	302	667.28	303	683.19	672.1	0.024	8.0	0.013	2.07	0.0229	22.4
CO-115	192	635.34	199	629.51	829.0	0.007	8.0	0.013	1.35	0.0220	33.5
CO-116	302	667.28	304	684.74	1,027.1	0.017	8.0	0.013	2.01	0.0299	23.3
CO-117	302	667.28	322	651.66	966.7	0.016	8.0	0.013	3.11	0.1399	28.7
CO-118	191	630.32	201	628.50	230.8	0.008	8.0	0.013	1.42	0.0229	28.4
CO-119	305	678.88	362	677.92	177.8	0.005	12.0	0.013	3.37	0.8862	51.9
CO-120	361	675.46	306	663.81	1,437.1	0.008	12.0	0.013	3.97	0.9275	51.1
CO-121	190	624.00	189	620.00	256.5	0.016	18.0	0.013	5.87	1.7784	43.1
CO-122	306	663.81	15	656.95	666.8	0.010	12.0	0.013	4.36	0.9504	52.7
CO-123	307	665.85	15	656.95	1,427.9	0.006	8.0	0.013	1.93	0.0871	53.2
CO-124	308	677.81	307	665.85	849.6	0.014	8.0	0.013	1.65	0.0194	18.6
CO-125	188	625.00	190	624.00	149.2	0.007	18.0	0.013	4.33	1.7730	41.9

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-126	309	668.86	307	665.85	582.4	0.005	8.0	0.013	1.40	0.0361	21.3
CO-127	187	625.80	188	625.00	137.1	0.006	8.0	0.013	2.68	0.3161	73.0
CO-128	186	640.10	187	625.80	303.8	0.047	8.0	0.013	5.72	0.3125	50.3
CO-129	185	645.00	186	640.10	598.4	0.008	8.0	0.013	3.00	0.2958	48.1
CO-130	310	665.47	306	663.81	543.5	0.003	8.0	0.013	0.76	0.0088	43.5
CO-131	184	648.00	185	645.00	217.1	0.014	8.0	0.013	3.56	0.2764	46.6
CO-132	183	649.00	184	648.00	189.0	0.005	8.0	0.013	2.50	0.2738	47.3
CO-133	182	650.00	183	649.00	389.0	0.003	8.0	0.013	1.87	0.2606	54.1
CO-134	311	666.46	41	639.00	1,530.1	0.018	8.0	0.013	2.46	0.0554	22.1
CO-135	181	651.00	182	650.00	287.4	0.003	8.0	0.013	2.06	0.2404	55.2
CO-136	180	661.00	181	651.00	687.9	0.015	8.0	0.013	3.48	0.2386	46.8
CO-137	179	665.00	180	661.00	388.6	0.010	8.0	0.013	3.03	0.2263	41.8
CO-138	178	666.00	179	665.00	38.0	0.026	8.0	0.013	4.20	0.2174	40.8
CO-139	177	668.00	178	666.00	336.3	0.006	8.0	0.013	2.45	0.2174	41.0
CO-140	176	669.00	177	668.00	368.4	0.003	8.0	0.013	0.81	0.0123	26.7
CO-141	230	648.07	313	649.00	21.7	0.043	8.0	0.013	4.98	0.2160	45.4
CO-142	314	656.00	313	649.00	339.8	0.021	8.0	0.013	3.54	0.1620	37.4
CO-143	315	658.50	314	656.00	143.4	0.017	8.0	0.013	2.96	0.1080	31.4
CO-144	175	679.19	176	669.00	814.3	0.013	8.0	0.013	1.36	0.0114	10.4
CO-145	316	664.00	315	658.50	272.6	0.020	8.0	0.013	2.54	0.0540	23.9
CO-146	174	645.64	186	640.10	667.4	0.008	6.0	0.013	1.22	0.0114	39.0
CO-147	317	670.00	315	658.50	404.5	0.028	8.0	0.013	2.86	0.0540	23.9
CO-148	173	626.80	188	625.00	365.3	0.005	12.0	0.013	3.60	1.4569	69.2
CO-149	318	663.00	314	656.00	396.1	0.018	8.0	0.013	2.43	0.0540	27.2
CO-150	168	628.50	173	626.80	459.3	0.004	12.0	0.013	3.14	1.4481	79.8
CO-151	313	649.00	319	667.00	517.4	0.035	8.0	0.013	3.08	0.0540	30.0
CO-152	172	639.48	168	628.50	391.1	0.028	6.0	0.013	2.21	0.0203	58.6
CO-154	171	646.05	172	639.48	354.8	0.019	6.0	0.013	1.71	0.0141	15.8
CO-155	354	650.64	320	648.58	322.7	0.006	12.0	0.013	3.78	1.0965	56.6
CO-156	15	656.95	354	650.64	360.7	0.017	12.0	0.013	5.44	1.0454	54.8

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-157	170	653.00	171	646.05	238.8	0.029	6.0	0.013	1.75	0.0088	12.8
CO-158	321	639.66	203	639.30	105.3	0.003	15.0	0.013	3.20	1.4406	51.5
CO-159	169	665.64	170	653.00	652.8	0.019	6.0	0.013	1.42	0.0070	10.7
CO-160	292	647.93	322	651.66	394.9	0.009	10.0	0.013	2.51	0.1399	28.3
CO-161	203	639.30	323	630.00	377.8	0.025	15.0	0.013	6.63	1.4424	39.8
CO-162	167	629.20	168	628.50	367.2	0.002	12.0	0.013	2.81	1.4279	92.7
CO-163	323	619.50	345	614.98	1,296.4	0.003	30.0	0.013	3.42	2.0628	24.8
CO-164	166	629.50	167	629.20	167.0	0.002	12.0	0.013	2.79	1.4172	100.0
CO-165	43	630.25	324	634.24	897.8	0.004	8.0	0.013	1.89	0.1232	37.9
CO-166	165	630.00	166	629.50	153.0	0.003	12.0	0.013	2.79	1.4172	100.0
CO-167	55	665.37	45	651.86	315.9	0.043	8.0	0.013	2.56	0.0229	18.8
CO-168	46	659.46	324	634.24	889.1	0.028	8.0	0.013	3.16	0.0748	28.2
CO-169	325	662.79	263	658.54	1,005.0	0.004	8.0	0.013	1.20	0.0273	16.4
CO-170	162	634.50	163	633.00	334.4	0.004	12.0	0.013	2.58	1.3119	100.0
CO-171	326	620.64	254	619.55	251.9	0.004	8.0	0.013	1.87	0.1223	63.3
CO-172	252	647.39	334	656.25	262.4	0.034	8.0	0.013	5.09	0.3150	72.2
CO-173	161	636.92	160	635.27	354.0	0.005	8.0	0.013	1.22	0.0256	18.1
CO-174	327	660.05	328	678.10	417.1	0.043	8.0	0.013	3.44	0.0607	34.9
CO-175	158	630.50	165	630.00	200.7	0.002	12.0	0.013	2.79	1.4172	100.0
CO-176	328	678.10	329	695.12	949.3	0.018	8.0	0.013	2.42	0.0528	20.2
CO-177	164	631.00	158	630.50	187.5	0.003	12.0	0.013	2.75	1.3977	100.0
CO-178	329	695.12	330	699.70	756.9	0.006	8.0	0.013	1.45	0.0343	17.8
CO-179	159	670.11	158	630.50	1,038.3	0.038	8.0	0.013	2.18	0.0159	55.3
CO-180	330	699.70	331	705.20	374.2	0.015	8.0	0.013	1.65	0.0185	13.8
CO-181	157	674.92	156	674.17	193.2	0.004	6.0	0.013	0.53	0.0018	9.6
CO-182	331	705.20	332	709.51	705.8	0.006	8.0	0.013	1.03	0.0106	10.3
CO-183	156	674.17	155	667.41	335.7	0.020	6.0	0.013	1.66	0.0114	11.6
CO-184	333	708.81	248	682.77	2,225.1	0.012	8.0	0.013	2.08	0.0519	35.4
CO-185	155	667.41	154	663.28	201.3	0.021	6.0	0.013	1.67	0.0114	18.4
CO-186	335	657.00	334	656.25	142.1	0.005	8.0	0.013	2.58	0.3150	51.1

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-187	153	631.50	164	631.00	162.2	0.003	12.0	0.013	2.75	1.3977	100.0
CO-188	335	657.00	327	660.05	174.6	0.017	8.0	0.013	4.02	0.3150	51.1
CO-189	163	633.00	153	631.50	333.0	0.005	12.0	0.013	2.66	1.3491	100.0
CO-190	336	677.25	327	660.05	2,121.0	0.008	8.0	0.013	2.87	0.2543	46.4
CO-191	154	663.28	153	631.50	943.1	0.034	8.0	0.013	2.89	0.0450	59.0
CO-192	152	676.00	156	674.17	322.2	0.006	6.0	0.013	1.01	0.0097	12.9
CO-193	338	693.00	339	683.00	782.3	0.013	8.0	0.013	1.65	0.0220	34.5
CO-194	151	675.20	154	663.28	1,070.0	0.011	8.0	0.013	1.48	0.0176	14.6
CO-195	339	683.00	340	688.00	493.5	0.010	8.0	0.013	3.48	0.3925	55.8
CO-196	150	678.72	149	655.42	1,104.9	0.021	6.0	0.013	2.02	0.0212	20.0
CO-197	339	683.00	341	679.33	137.1	0.027	8.0	0.013	5.06	0.4145	73.6
CO-198	149	655.42	163	633.00	909.9	0.025	6.0	0.013	2.46	0.0336	61.2
CO-199	341	679.33	305	678.88	140.1	0.003	12.0	0.013	2.76	0.8862	55.9
CO-200	22	651.05	342	658.95	617.7	0.013	8.0	0.013	2.23	0.0600	22.4
CO-201	41	639.00	39	622.00	438.3	0.039	8.0	0.013	3.61	0.0810	26.9
CO-202	148	680.50	147	659.89	736.3	0.028	6.0	0.013	1.90	0.0123	15.3
CO-203	147	659.89	146	650.80	495.2	0.018	6.0	0.013	1.91	0.0203	18.5
CO-204	146	650.80	145	646.00	329.3	0.015	6.0	0.013	1.90	0.0264	21.8
CO-205	145	646.00	162	634.50	453.5	0.025	6.0	0.013	2.57	0.0380	61.9
CO-206	346	689.42	340	688.00	142.3	0.010	8.0	0.013	3.46	0.3925	52.6
CO-207	347	698.78	346	689.42	937.7	0.010	8.0	0.013	1.72	0.0334	35.2
CO-208	144	672.16	143	662.41	374.8	0.026	6.0	0.013	1.49	0.0062	11.9
CO-209	348	692.79	346	689.42	337.1	0.010	8.0	0.013	3.39	0.3590	53.7
CO-210	143	662.41	142	651.77	460.6	0.023	6.0	0.013	1.85	0.0141	15.2
CO-211	349	697.65	348	692.79	485.6	0.010	8.0	0.013	2.17	0.0730	37.8
CO-212	142	651.77	141	645.63	435.8	0.014	6.0	0.013	1.66	0.0176	17.7
CO-213	350	702.37	349	697.65	472.0	0.010	8.0	0.013	1.77	0.0370	19.6
CO-214	141	645.63	161	636.92	486.9	0.018	6.0	0.013	2.02	0.0256	19.7
CO-215	351	708.52	350	702.37	615.0	0.010	8.0	0.013	1.77	0.0370	15.5
CO-216	140	643.95	160	635.27	617.3	0.014	6.0	0.013	2.07	0.0370	25.9

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-217	352	706.17	349	697.65	867.6	0.010	8.0	0.013	1.63	0.0282	18.6
CO-218	139	661.44	140	643.95	789.8	0.022	6.0	0.013	2.40	0.0352	23.2
CO-219	138	669.70	139	661.44	345.6	0.024	6.0	0.013	2.14	0.0220	20.5
CO-220	137	680.00	138	669.70	508.1	0.020	6.0	0.013	1.87	0.0167	16.8
CO-221	353	694.00	348	692.79	652.5	0.002	8.0	0.013	1.66	0.2763	60.8
CO-222	136	684.94	137	680.00	379.1	0.013	6.0	0.013	1.32	0.0088	13.5
CO-223	355	665.60	354	650.64	1,778.9	0.008	8.0	0.013	1.77	0.0449	50.7
CO-224	135	679.62	134	653.27	1,335.1	0.020	6.0	0.013	1.38	0.0062	16.3
CO-225	134	653.27	133	644.00	562.7	0.016	6.0	0.013	2.18	0.0361	21.0
CO-226	133	644.00	12th Street LS (Downtown)	622.00	549.6	0.040	6.0	0.013	2.98	0.0361	19.2
CO-227	356	667.08	320	648.58	2,402.2	0.008	8.0	0.013	2.04	0.0801	55.3
CO-228	132	627.15	12th Street LS (Downtown)	622.00	244.8	0.021	6.0	0.013	2.74	0.0592	26.3
CO-229	357	669.69	358	641.44	1,728.6	0.016	8.0	0.013	2.38	0.0554	60.0
CO-230	131	628.00	132	627.15	405.8	0.002	6.0	0.013	1.20	0.0592	35.6
CO-231	130	629.50	131	628.00	197.5	0.008	8.0	0.013	1.83	0.0574	25.6
CO-232	129	630.50	130	629.50	383.8	0.003	8.0	0.013	1.26	0.0574	23.0
CO-233	128	631.00	129	630.50	153.7	0.003	8.0	0.013	1.18	0.0359	22.4
CO-234	360	665.00	359	651.40	1,183.8	0.011	8.0	0.013	1.61	0.0229	25.4
CO-235	127	632.00	128	631.00	351.8	0.003	8.0	0.013	1.08	0.0305	18.8
CO-236	362	677.92	361	675.46	471.7	0.005	12.0	0.013	3.34	0.8994	51.6
CO-237	126	633.00	127	632.00	344.4	0.003	8.0	0.013	1.05	0.0269	17.7
CO-238	5	689.00	363	715.00	673.2	0.039	8.0	0.013	2.42	0.0211	29.6
CO-239	125	634.00	126	633.00	179.5	0.006	8.0	0.013	0.99	0.0108	13.3
CO-240	364	712.00	2	688.00	890.5	0.027	8.0	0.013	3.12	0.0766	33.7
CO-241	124	634.50	125	634.00	212.1	0.002	8.0	0.013	0.66	0.0072	9.5

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Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-242	365	714.00	364	712.00	276.5	0.007	8.0	0.013	1.83	0.0598	22.2
CO-243	123	635.37	126	633.00	321.6	0.007	8.0	0.013	1.05	0.0090	12.6
CO-244	366	715.00	365	714.00	306.0	0.003	8.0	0.013	1.03	0.0220	17.9
CO-245	122	635.00	127	632.00	178.5	0.017	8.0	0.013	0.84	0.0018	11.0
CO-246	367	726.00	366	715.00	807.7	0.014	8.0	0.013	1.63	0.0194	13.4
CO-247	121	635.41	127	632.00	173.3	0.020	8.0	0.013	0.89	0.0018	11.0
CO-248	368	700.00	7	694.00	460.6	0.013	8.0	0.013	2.16	0.0528	30.8
CO-249	120	635.00	128	631.00	150.1	0.027	8.0	0.013	1.40	0.0054	12.7
CO-250	369	718.00	368	700.00	841.0	0.021	8.0	0.013	1.88	0.0185	15.5
CO-251	119	634.00	126	633.00	500.8	0.002	8.0	0.013	0.62	0.0072	13.5
CO-252	370	713.00	368	700.00	1,071.5	0.012	8.0	0.013	1.70	0.0255	16.5
CO-253	118	627.79	117	626.32	289.7	0.005	8.0	0.013	0.55	0.0018	3.9
CO-254	371	700.00	7	694.00	1,023.4	0.006	8.0	0.013	1.99	0.1038	35.2
CO-255	117	626.32	116	618.45	198.6	0.040	6.0	0.013	1.19	0.0018	13.4
CO-256	372	711.50	371	700.00	310.2	0.037	8.0	0.013	2.85	0.0387	22.4
CO-257	115	621.81	116	618.45	445.2	0.008	6.0	0.013	1.54	0.0283	21.1
CO-258	373	723.00	372	711.50	1,099.7	0.010	8.0	0.013	1.56	0.0229	14.7
CO-259	114	623.31	115	621.81	233.6	0.006	6.0	0.013	1.33	0.0213	19.4
CO-260	374	713.00	372	711.50	582.4	0.003	8.0	0.013	0.80	0.0123	14.3
CO-261	113	628.33	114	623.31	342.6	0.015	6.0	0.013	1.41	0.0097	15.1
CO-262	421	703.00	371	700.00	712.0	0.004	8.0	0.013	1.44	0.0510	24.8
CO-263	375	728.00	421	703.00	1,201.3	0.021	8.0	0.013	2.42	0.0440	19.6
CO-264	1	698.09	376	696.53	355.3	0.004	8.0	0.013	1.77	0.1003	33.9
CO-265	112	615.01	111	611.01	237.9	0.017	6.0	0.013	1.59	0.0123	15.7
CO-266	420	703.53	376	696.53	605.5	0.012	8.0	0.013	2.28	0.0730	30.5
CO-267	377	706.51	420	703.53	298.4	0.010	8.0	0.013	1.98	0.0537	21.3
CO-268	111	611.01	110	608.70	275.6	0.008	6.0	0.013	1.48	0.0220	25.3
CO-269	378	713.85	377	706.51	733.8	0.010	8.0	0.013	1.64	0.0282	16.9
CO-270	110	608.70	109	604.00	344.3	0.014	6.0	0.013	2.48	0.0705	30.1
CO-271	379	714.15	377	706.51	764.5	0.010	8.0	0.013	1.59	0.0255	16.6

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-272	380	719.51	378	713.85	565.7	0.010	8.0	0.013	1.11	0.0079	10.8
CO-273	109	604.00	Meadowlands LS	575.00	387.8	0.075	6.0	0.013	4.51	0.0705	25.4
CO-275	116	618.45	108	614.00	188.1	0.024	6.0	0.013	2.38	0.0318	23.3
CO-276	376	696.53	381	694.75	339.3	0.005	8.0	0.013	2.21	0.1734	43.5
CO-277	108	614.00	110	608.70	259.6	0.020	6.0	0.013	2.45	0.0415	28.8
CO-278	381	694.75	382	703.00	251.3	0.033	8.0	0.013	2.76	0.0405	33.0
CO-279	107	614.58	110	608.70	315.6	0.019	6.0	0.013	1.40	0.0070	21.4
CO-280	419	707.83	382	703.00	385.6	0.013	8.0	0.013	1.97	0.0405	15.8
CO-281	383	719.54	419	707.83	1,171.0	0.010	8.0	0.013	1.67	0.0299	15.8
CO-282	418	708.77	381	694.75	473.6	0.030	8.0	0.013	2.71	0.0422	33.2
CO-283	384	719.84	418	708.77	1,106.7	0.010	8.0	0.013	1.65	0.0290	15.9
CO-284	385	685.81	341	679.33	484.7	0.013	12.0	0.013	3.96	0.4717	48.0
CO-285	105	622.00	104	617.00	414.5	0.012	8.0	0.013	1.22	0.0088	8.6
CO-286	386	687.25	385	685.81	641.4	0.002	12.0	0.013	2.07	0.4717	40.8
CO-287	104	617.00	103	615.00	206.6	0.010	8.0	0.013	1.26	0.0123	13.3
CO-288	387	688.61	386	687.25	444.9	0.003	12.0	0.013	2.32	0.4717	44.0
CO-289	103	615.00	102	609.00	1,139.8	0.005	8.0	0.013	1.42	0.0370	16.8
CO-290	388	693.02	390	692.34	257.6	0.003	12.0	0.013	2.20	0.4717	51.2
CO-291	102	609.00	101	608.00	117.7	0.008	8.0	0.013	1.68	0.0370	16.3
CO-292	389	710.00	388	693.02	1,344.6	0.013	8.0	0.013	1.83	0.0308	40.3
CO-293	101	608.00	100	607.00	152.9	0.007	8.0	0.013	1.53	0.0370	19.8
CO-294	100	607.00	99	604.00	533.6	0.006	8.0	0.013	1.75	0.0695	24.3
CO-295	99	604.00	98	600.83	341.8	0.009	8.0	0.013	2.24	0.0889	30.4
CO-296	390	692.34	387	692.22	161.6	0.001	12.0	0.013	1.36	0.4717	47.0
CO-297	98	600.83	97	600.00	397.2	0.002	8.0	0.013	1.34	0.0959	31.5
CO-298	391	695.51	388	693.02	1,082.9	0.002	12.0	0.013	2.05	0.4409	43.9
CO-299	97	600.00	96	597.00	421.0	0.007	8.0	0.013	2.14	0.1047	28.3
CO-300	392	696.28	391	695.51	286.3	0.003	12.0	0.013	2.14	0.4136	42.3
CO-301	96	597.00	95	592.25	458.7	0.010	8.0	0.013	2.50	0.1144	27.3

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-302	393	696.97	392	696.28	250.7	0.003	12.0	0.013	2.13	0.3942	40.0
CO-303	95	592.25	Meadowlands LS	575.00	518.3	0.033	8.0	0.013	3.78	0.1144	24.1
CO-304	394	697.75	393	696.97	281.7	0.003	12.0	0.013	2.11	0.3749	38.7
CO-305	106	619.36	94	614.07	439.9	0.012	6.0	0.013	1.59	0.0185	17.9
CO-306	395	700.29	394	697.75	850.9	0.003	10.0	0.013	1.69	0.1461	37.6
CO-307	94	614.07	100	607.00	458.6	0.015	6.0	0.013	1.92	0.0255	25.2
CO-308	396	702.14	395	700.29	698.9	0.003	10.0	0.013	1.34	0.0766	25.7
CO-309	397	702.95	396	702.14	269.9	0.003	10.0	0.013	1.34	0.0651	20.7
CO-310	93	617.16	99	604.00	836.4	0.016	6.0	0.013	1.68	0.0158	24.6
CO-311	92	615.00	91	604.57	476.8	0.022	6.0	0.013	1.43	0.0062	10.7
CO-312	398	731.00	397	702.95	849.2	0.033	8.0	0.013	2.36	0.0238	18.7
CO-313	91	604.57	96	597.00	216.8	0.035	6.0	0.013	1.92	0.0097	25.2
CO-314	90	635.00	89	634.00	343.2	0.003	8.0	0.013	1.81	0.1849	41.7
CO-315	399	707.85	395	700.29	435.5	0.017	8.0	0.013	2.60	0.0695	29.6
CO-316	89	634.00	88	630.05	411.2	0.010	8.0	0.013	2.80	0.1849	35.3
CO-317	88	630.05	87	625.84	523.1	0.008	8.0	0.013	2.62	0.1849	36.1
CO-318	400	709.00	399	707.85	271.3	0.004	8.0	0.013	1.58	0.0695	23.7
CO-319	87	625.84	189	620.00	375.6	0.016	8.0	0.013	3.32	0.1849	68.3
CO-320	86	669.00	179	665.00	760.4	0.005	6.0	0.013	0.73	0.0036	31.5
CO-321	85	675.00	177	668.00	890.7	0.008	8.0	0.013	2.67	0.2051	40.3
CO-322	401	723.00	394	697.75	1,998.2	0.013	8.0	0.013	3.22	0.2182	48.9
CO-323	84	682.00	85	675.00	564.1	0.012	8.0	0.013	3.09	0.1910	38.5
CO-324	402	741.00	401	723.00	1,418.8	0.013	8.0	0.013	2.46	0.0845	32.6
CO-325	83	686.00	84	682.00	209.2	0.019	8.0	0.013	2.57	0.0598	29.3
CO-326	403	744.00	402	741.00	790.9	0.004	8.0	0.013	1.27	0.0378	21.9
CO-327	82	686.50	83	686.00	151.9	0.003	8.0	0.013	1.36	0.0572	22.5
CO-328	404	755.00	403	744.00	836.8	0.013	8.0	0.013	1.61	0.0194	15.3
CO-329	81	687.00	82	686.50	133.5	0.004	8.0	0.013	1.39	0.0519	23.2
CO-330	405	753.00	403	744.00	588.3	0.015	8.0	0.013	1.66	0.0185	15.2

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-331	80	688.00	83	686.00	320.5	0.006	8.0	0.013	0.67	0.0026	12.8
CO-332	406	732.00	401	723.00	1,155.9	0.008	8.0	0.013	2.36	0.1338	35.9
CO-333	407	736.00	406	732.00	664.2	0.006	8.0	0.013	2.02	0.1056	29.8
CO-334	78	661.50	79	659.00	324.9	0.008	8.0	0.013	2.26	0.1153	29.5
CO-335	408	737.00	407	736.00	270.9	0.004	8.0	0.013	1.44	0.0598	26.1
CO-336	77	662.00	78	661.50	50.3	0.010	8.0	0.013	2.44	0.1100	28.7
CO-337	409	757.00	408	737.00	1,140.8	0.018	8.0	0.013	2.12	0.0343	19.8
CO-338	76	665.00	77	662.00	485.5	0.006	8.0	0.013	1.54	0.0405	22.9
CO-339	410	755.00	408	737.00	1,141.4	0.016	8.0	0.013	1.86	0.0255	18.7
CO-340	75	669.00	76	665.00	475.3	0.008	8.0	0.013	1.63	0.0343	16.5
CO-341	411	740.00	397	702.95	1,072.5	0.035	8.0	0.013	2.83	0.0414	20.8
CO-342	74	672.00	75	669.00	401.4	0.007	8.0	0.013	1.46	0.0273	14.8
CO-346	413	711.00	394	697.75	639.1	0.021	8.0	0.013	1.56	0.0106	32.9
CO-347	414	705.00	393	696.97	610.2	0.013	8.0	0.013	1.61	0.0194	35.3
CO-348	415	702.50	392	696.28	607.9	0.010	8.0	0.013	1.47	0.0194	36.3
CO-349	73	698.00	72	696.00	255.4	0.008	6.0	0.013	0.83	0.0035	9.6
CO-350	416	715.47	4	703.96	1,151.0	0.010	8.0	0.013	1.77	0.0370	17.8
CO-351	72	696.00	71	682.00	576.3	0.024	6.0	0.013	1.68	0.0097	13.9
CO-352	417	712.02	3	700.75	1,127.0	0.010	8.0	0.013	1.73	0.0334	17.9
CO-353	71	682.00	70	674.00	390.1	0.021	8.0	0.013	1.89	0.0202	13.3
CO-354	422	639.60	203	639.30	133.7	0.002	8.0	0.013	0.42	0.0018	67.0
CO-355	70	674.00	69	672.22	263.7	0.007	8.0	0.013	1.45	0.0299	17.8
CO-356	423	643.00	424	625.81	1,116.5	0.015	8.0	0.013	2.83	0.1080	47.1
CO-357	205	613.90	425	612.00	43.1	0.044	8.0	0.013	4.23	0.1188	23.9
CO-358	426	606.67	427	605.83	294.4	0.003	30.0	0.013	3.43	2.6656	29.4
CO-359	427	605.83	428	604.98	300.8	0.003	30.0	0.013	3.41	2.6656	28.2
CO-360	68	691.50	69	672.22	1,223.9	0.016	6.0	0.013	1.73	0.0176	22.0
CO-361	428	604.98	429	604.14	212.1	0.004	30.0	0.013	3.85	2.6656	30.0
CO-362	429	604.14	430	603.75	203.9	0.002	30.0	0.013	2.97	2.6656	35.4
CO-363	67	686.00	66	671.00	1,226.7	0.012	6.0	0.013	1.59	0.0176	23.0

2024 City of Justin Wastewater Model Update.stsw
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CO-364	430	603.75	431	603.57	84.1	0.002	30.0	0.013	3.30	3.3728	39.4
CO-365	431	603.57	432	603.16	317.5	0.001	30.0	0.013	2.74	3.3728	40.8
CO-366	69	672.22	66	671.00	273.5	0.004	8.0	0.013	1.46	0.0502	21.7
CO-367	66	671.00	77	662.00	275.9	0.033	8.0	0.013	3.24	0.0695	25.4
CO-368	432	603.16	433	602.41	556.6	0.001	30.0	0.013	2.79	3.3728	35.4
CO-369	433	602.41	Justin Treatment Plant	596.00	189.0	0.034	30.0	0.013	8.83	3.3728	24.0
CO-370	65	684.00	208	681.50	426.9	0.006	8.0	0.013	1.34	0.0273	17.4
CO-372(1)	438	670.33	460	664.17	1,000.5	0.006	21.0	0.013	3.06	0.6204	19.4
CO-372(2)	460	664.17	435	635.85	4,596.4	0.006	21.0	0.013	3.07	0.6204	19.4
CO-373	64	686.50	65	684.00	448.6	0.006	8.0	0.013	1.14	0.0167	13.1
CO-374	435	635.85	436	628.55	1,213.7	0.006	30.0	0.013	2.90	0.6204	13.7
CO-375	63	691.00	64	686.50	258.3	0.017	8.0	0.013	1.20	0.0053	8.9
CO-376	436	628.55	437	627.00	630.3	0.002	30.0	0.013	2.12	0.6204	13.7
CO-377	62	688.00	64	686.50	95.2	0.016	8.0	0.013	0.82	0.0018	7.6
CO-378(1)	437	627.00	473	626.31	134.1	0.005	30.0	0.013	2.75	0.6204	12.5
CO-378(2)	473	626.31	323	619.50	1,317.2	0.005	30.0	0.013	2.75	0.6204	18.6
CO-379	61	691.00	60	686.00	484.7	0.010	8.0	0.013	1.24	0.0106	10.2
CO-380	240	702.58	337	706.45	884.6	0.004	8.0	0.013	1.74	0.0950	30.6
CO-381	60	686.00	59	683.50	313.1	0.008	8.0	0.013	1.35	0.0194	12.1
CO-382	280	606.77	Timberbrooks LS	606.50	58.8	0.005	12.0	0.013	3.34	1.1106	59.1
CO-383	59	683.50	208	681.50	258.1	0.008	8.0	0.013	1.39	0.0220	16.3
CO-384	439	682.54	441	675.45	178.5	0.040	15.0	0.013	6.15	0.6204	24.6
CO-385	441	675.45	438	670.33	345.8	0.015	15.0	0.013	4.34	0.6204	27.2
CO-386	58	689.97	60	686.00	174.0	0.023	8.0	0.013	0.94	0.0018	7.6
CO-387	440	686.12	439	682.54	300.9	0.012	15.0	0.013	4.02	0.6204	27.9
CO-388	57	681.00	56	668.31	413.5	0.031	8.0	0.013	1.83	0.0114	7.7
CO-390	56	668.31	55	665.37	237.4	0.012	8.0	0.013	1.35	0.0114	10.8

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CO-392	54	678.00	55	665.37	306.6	0.041	8.0	0.013	1.88	0.0088	10.3
CO-394	53	677.22	52	666.26	424.4	0.026	8.0	0.013	1.76	0.0123	10.1
CO-396	51	672.00	52	666.26	215.7	0.027	8.0	0.013	1.14	0.0026	7.6
CO-398	50	681.00	49	674.00	385.5	0.018	8.0	0.013	1.49	0.0106	9.3
CO-401	49	674.00	225	669.14	252.1	0.019	8.0	0.013	1.68	0.0141	22.9
CO-408	47	676.59	46	659.46	1,248.2	0.014	8.0	0.013	1.91	0.0326	19.3
CO-410	48	677.33	45	651.86	997.6	0.026	8.0	0.013	2.01	0.0185	18.2
CO-413	46	659.46	344	670.00	702.0	0.015	8.0	0.013	1.75	0.0220	17.9
CO-414	343	670.00	45	651.86	985.0	0.018	8.0	0.013	1.92	0.0238	18.9
CO-416	44	629.32	204	627.53	373.1	0.005	8.0	0.013	2.24	0.2086	41.3
CO-418	45	651.86	43	630.25	914.1	0.024	8.0	0.013	3.08	0.0854	33.8
CO-420	43	630.25	44	629.32	188.0	0.005	8.0	0.013	2.27	0.2086	42.9
CO-422	52	666.26	42	647.00	256.6	0.075	8.0	0.013	2.81	0.0167	8.6
CO-424	42	647.00	41	639.00	365.7	0.022	8.0	0.013	1.84	0.0167	17.5
CO-426	312	645.00	40	641.95	208.3	0.015	8.0	0.013	2.02	0.0361	14.7
CO-428	40	641.95	39	622.00	373.0	0.053	8.0	0.013	3.17	0.0361	22.8
CO-430	39	622.00	205	613.90	413.0	0.020	8.0	0.013	3.18	0.1188	25.9
CO-431	38	621.00	93	617.16	148.3	0.026	6.0	0.013	1.15	0.0026	10.7
CO-432	37	621.00	106	619.36	208.5	0.008	6.0	0.013	0.68	0.0018	10.9
CO-433	36	624.00	108	614.00	405.8	0.025	6.0	0.013	1.60	0.0079	17.8
CO-434	35	624.00	106	619.36	483.3	0.010	6.0	0.013	1.18	0.0088	13.9
CO-435	34	626.99	112	615.01	303.4	0.039	12.0	0.013	1.64	0.0070	5.5
CO-436	33	662.09	183	649.00	1,015.0	0.013	6.0	0.013	1.45	0.0123	39.3
CO-437	32	669.74	182	650.00	1,097.2	0.018	6.0	0.013	1.76	0.0158	47.1
CO-438	31	649.81	171	646.05	291.6	0.013	6.0	0.013	0.99	0.0035	10.7
CO-439	30	641.00	172	639.48	265.3	0.006	6.0	0.013	0.76	0.0036	12.6
CO-440	29	658.29	28	638.00	776.5	0.026	6.0	0.013	1.58	0.0071	10.7
CO-441	28	638.00	27	637.33	55.4	0.012	6.0	0.013	1.28	0.0089	10.8
CO-442	27	637.33	167	629.20	165.0	0.049	6.0	0.013	2.09	0.0089	55.7
CO-443	26	656.00	185	645.00	726.4	0.015	6.0	0.013	1.57	0.0132	38.5

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-444	25	639.27	173	626.80	539.7	0.023	6.0	0.010	1.94	0.0088	55.6
CO-445	24	633.00	131	628.00	139.7	0.036	8.0	0.013	1.11	0.0018	17.2
CO-446	23	632.98	129	630.50	282.6	0.009	8.0	0.013	0.68	0.0018	14.6
CO-447	160	635.27	12th Street LS (Downtown)	622.00	328.5	0.040	8.0	0.013	3.39	0.0626	17.4
CO-448(1)	22	651.05	477	648.99	743.5	0.003	10.0	0.013	1.27	0.0600	19.2
CO-448(2)	477	648.99	292	647.93	381.5	0.003	10.0	0.013	1.27	0.0600	25.9
CO-449	21	641.91	358	641.44	147.6	0.003	12.0	0.013	2.90	1.1836	79.5
CO-450	358	641.44	202	640.44	347.3	0.003	12.0	0.013	2.77	1.2461	76.9
CO-452	20	696.00	19	693.50	751.8	0.003	8.0	0.013	0.59	0.0035	5.6
CO-453	19	693.50	18	688.75	321.3	0.015	8.0	0.013	1.00	0.0035	12.6
CO-454	17	660.12	359	651.40	1,003.1	0.009	8.0	0.013	2.58	0.1584	36.2
CO-455	359	651.40	202	640.44	551.3	0.020	8.0	0.013	3.68	0.1945	69.0
CO-456	18	688.75	81	687.00	325.0	0.005	8.0	0.013	1.58	0.0519	21.3
CO-462	320	648.58	21	641.91	866.7	0.008	12.0	0.013	4.14	1.1836	66.9
CO-464	14	677.74	285	665.28	1,010.6	0.012	8.0	0.013	1.46	0.0150	12.5
CO-465	79	659.00	12th Street LS (Private)	645.00	403.8	0.035	8.0	0.013	3.92	0.1223	24.8
CO-466	13	636.61	12	626.00	1,177.1	0.009	8.0	0.013	0.85	0.0036	6.1
CO-467	12	626.00	114	623.31	227.5	0.012	8.0	0.013	1.14	0.0072	10.5
CO-468	11	635.83	12	626.00	1,238.6	0.008	8.0	0.013	0.81	0.0036	6.2
CO-469	10	611.22	9	600.00	731.6	0.015	10.0	0.013	1.76	0.0240	9.0
CO-470	9	600.00	8	597.00	587.0	0.005	18.0	0.013	1.10	0.0240	23.0
CO-471	8	597.00	Justin Treatment Plant	596.00	132.8	0.008	24.0	0.013	4.55	1.9873	28.7
CO-474	425	609.57	426	606.67	473.4	0.006	30.0	0.013	4.36	2.3901	27.3
CO-475	189	620.00	8	597.00	298.0	0.077	18.0	0.013	10.69	1.9633	33.0
CO-476	7	694.00	6	692.50	512.8	0.003	8.0	0.013	1.73	0.1566	41.5

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-477	6	692.50	5	689.00	1,067.3	0.003	8.0	0.013	1.81	0.1566	43.9
CO-478	4	703.96	1	698.09	835.9	0.007	8.0	0.013	1.74	0.0519	24.6
CO-479	5	689.00	2	688.00	386.2	0.003	8.0	0.013	1.71	0.1778	45.4
CO-480	2	688.00	336	677.25	291.3	0.037	8.0	0.013	4.96	0.2543	35.8
CO-481	3	700.75	1	698.09	564.1	0.005	8.0	0.013	1.47	0.0484	25.1
CO-482	381	694.75	353	694.00	162.1	0.005	8.0	0.013	2.33	0.2561	59.0

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Existing Model - Peak Flow (PF=4)
FlexTable: Outfall Table

Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Flow (Total Out) (MGD)
Meadowlands LS	600.74	575.00	0.1849
12th Street LS (Private)	666.05	645.00	0.1223
12th Street LS (Downtown)	637.00	622.00	0.1579
Timberbrooks LS	626.50	606.50	1.1106
Justin Treatment Plant	616.27	596.00	5.3601

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
1	710.15	698.09	0.0000	0.1003	0.1003
2	697.00	688.00	0.0000	0.2543	0.2543
3	713.23	700.75	0.0150	0.0334	0.0484
4	715.75	703.96	0.0150	0.0370	0.0519
5	699.00	689.00	0.0000	0.1778	0.1778
6	701.00	692.50	0.0000	0.1566	0.1566
7	701.00	694.00	0.0000	0.1566	0.1566
8	616.65	597.00	0.0000	1.9873	1.9873
9	624.36	600.00	0.0000	0.0240	0.0240
10	615.22	611.22	0.0240	0.0000	0.0240
11	639.83	635.83	0.0036	0.0000	0.0036
12	630.00	626.00	0.0000	0.0072	0.0072
13	640.61	636.61	0.0036	0.0000	0.0036
14	684.46	677.74	0.0150	0.0000	0.0150
15	665.40	656.95	0.0079	1.0375	1.0454
17	672.00	660.12	0.0273	0.1311	0.1584
18	695.45	688.75	0.0484	0.0035	0.0519
19	700.00	693.50	0.0000	0.0035	0.0035
20	702.00	696.00	0.0035	0.0000	0.0035
21	655.88	641.91	0.0000	1.1836	1.1836
22	671.67	651.05	0.0000	0.0600	0.0600
23	636.98	632.98	0.0018	0.0000	0.0018
24	637.85	633.00	0.0018	0.0000	0.0018
25	643.27	639.27	0.0088	0.0000	0.0088
26	663.00	656.00	0.0132	0.0000	0.0132
27	641.33	637.33	0.0000	0.0089	0.0089
28	642.00	638.00	0.0018	0.0071	0.0089
29	662.29	658.29	0.0071	0.0000	0.0071
30	645.00	641.00	0.0036	0.0000	0.0036
31	653.81	649.81	0.0035	0.0000	0.0035
32	681.00	669.74	0.0158	0.0000	0.0158
33	673.00	662.09	0.0123	0.0000	0.0123
34	630.99	626.99	0.0070	0.0000	0.0070
35	628.00	624.00	0.0088	0.0000	0.0088
36	628.00	624.00	0.0079	0.0000	0.0079
37	625.00	621.00	0.0018	0.0000	0.0018
38	625.00	621.00	0.0026	0.0000	0.0026
39	626.00	622.00	0.0018	0.1170	0.1188
40	645.95	641.95	0.0000	0.0361	0.0361
41	646.00	639.00	0.0088	0.0722	0.0810
42	654.00	647.00	0.0000	0.0167	0.0167
43	639.22	630.25	0.0000	0.2086	0.2086
44	635.02	629.32	0.0000	0.2086	0.2086
45	664.58	651.86	0.0202	0.0651	0.0854
46	671.94	659.46	0.0202	0.0546	0.0748
47	683.37	676.59	0.0326	0.0000	0.0326

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
48	683.31	677.33	0.0185	0.0000	0.0185
49	680.62	674.00	0.0035	0.0106	0.0141
50	685.00	681.00	0.0106	0.0000	0.0106
51	679.25	672.00	0.0026	0.0000	0.0026
52	670.26	666.26	0.0018	0.0150	0.0167
53	681.22	677.22	0.0123	0.0000	0.0123
54	682.00	678.00	0.0088	0.0000	0.0088
55	669.37	665.37	0.0026	0.0202	0.0229
56	672.31	668.31	0.0000	0.0114	0.0114
57	685.00	681.00	0.0114	0.0000	0.0114
58	693.97	689.97	0.0018	0.0000	0.0018
59	692.00	683.50	0.0026	0.0194	0.0220
60	693.50	686.00	0.0070	0.0123	0.0194
61	695.00	691.00	0.0106	0.0000	0.0106
62	692.00	688.00	0.0018	0.0000	0.0018
63	695.00	691.00	0.0053	0.0000	0.0053
64	693.29	686.50	0.0097	0.0070	0.0167
65	691.97	684.00	0.0106	0.0167	0.0273
66	675.00	671.00	0.0018	0.0678	0.0695
67	689.00	686.00	0.0176	0.0000	0.0176
68	695.50	691.50	0.0176	0.0000	0.0176
69	676.19	672.22	0.0026	0.0475	0.0502
70	678.00	674.00	0.0097	0.0202	0.0299
71	686.09	682.00	0.0106	0.0097	0.0202
72	700.00	696.00	0.0062	0.0035	0.0097
73	702.00	698.00	0.0035	0.0000	0.0035
74	681.64	672.00	0.0273	0.0000	0.0273
75	684.00	669.00	0.0070	0.0273	0.0343
76	680.71	665.00	0.0062	0.0343	0.0405
77	673.00	662.00	0.0000	0.1100	0.1100
78	673.00	661.50	0.0053	0.1100	0.1153
79	670.00	659.00	0.0070	0.1153	0.1223
80	692.64	688.00	0.0026	0.0000	0.0026
81	697.00	687.00	0.0000	0.0519	0.0519
82	696.89	686.50	0.0053	0.0519	0.0572
83	695.07	686.00	0.0000	0.0598	0.0598
84	692.67	682.00	0.1312	0.0598	0.1910
85	686.04	675.00	0.0141	0.1910	0.2051
86	676.00	669.00	0.0036	0.0000	0.0036
87	629.75	625.84	0.0000	0.1849	0.1849
88	634.05	630.05	0.0000	0.1849	0.1849
89	638.00	634.00	0.0000	0.1849	0.1849
90	639.00	635.00	0.1849	0.0000	0.1849
91	608.57	604.57	0.0035	0.0062	0.0097
92	619.26	615.00	0.0062	0.0000	0.0062
93	621.16	617.16	0.0132	0.0026	0.0158

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
94	618.07	614.07	0.0070	0.0185	0.0255
95	596.25	592.25	0.0000	0.1144	0.1144
96	604.14	597.00	0.0000	0.1144	0.1144
97	604.00	600.00	0.0088	0.0959	0.1047
98	604.83	600.83	0.0070	0.0889	0.0959
99	615.32	604.00	0.0035	0.0854	0.0889
100	613.82	607.00	0.0070	0.0625	0.0695
101	613.00	608.00	0.0000	0.0370	0.0370
102	612.36	609.00	0.0000	0.0370	0.0370
103	617.60	615.00	0.0246	0.0123	0.0370
104	623.40	617.00	0.0035	0.0088	0.0123
105	630.59	622.00	0.0088	0.0000	0.0088
106	623.36	619.36	0.0079	0.0106	0.0185
107	618.58	614.58	0.0070	0.0000	0.0070
108	618.00	614.00	0.0018	0.0397	0.0415
109	608.00	604.00	0.0000	0.0705	0.0705
110	612.70	608.70	0.0000	0.0705	0.0705
111	615.01	611.01	0.0097	0.0123	0.0220
112	619.01	615.01	0.0053	0.0070	0.0123
113	632.33	628.33	0.0097	0.0000	0.0097
114	627.31	623.31	0.0044	0.0169	0.0213
115	625.81	621.81	0.0070	0.0213	0.0283
116	622.45	618.45	0.0018	0.0301	0.0318
117	630.32	626.32	0.0000	0.0018	0.0018
118	631.79	627.79	0.0018	0.0000	0.0018
119	636.30	634.00	0.0072	0.0000	0.0072
120	639.00	635.00	0.0054	0.0000	0.0054
121	638.41	635.41	0.0018	0.0000	0.0018
122	638.00	635.00	0.0018	0.0000	0.0018
123	639.37	635.37	0.0090	0.0000	0.0090
124	637.33	634.50	0.0072	0.0000	0.0072
125	639.71	634.00	0.0036	0.0072	0.0108
126	640.00	633.00	0.0000	0.0269	0.0269
127	638.00	632.00	0.0000	0.0305	0.0305
128	638.00	631.00	0.0000	0.0359	0.0359
129	639.00	630.50	0.0197	0.0376	0.0574
130	638.52	629.50	0.0000	0.0574	0.0574
131	638.93	628.00	0.0000	0.0592	0.0592
132	631.15	627.15	0.0000	0.0592	0.0592
133	648.00	644.00	0.0000	0.0361	0.0361
134	657.27	653.27	0.0300	0.0062	0.0361
135	683.62	679.62	0.0062	0.0000	0.0062
136	688.94	684.94	0.0088	0.0000	0.0088
137	684.00	680.00	0.0079	0.0088	0.0167
138	673.70	669.70	0.0053	0.0167	0.0220
139	665.44	661.44	0.0132	0.0220	0.0352

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
140	647.95	643.95	0.0018	0.0352	0.0370
141	649.63	645.63	0.0080	0.0176	0.0256
142	655.77	651.77	0.0035	0.0141	0.0176
143	666.41	662.41	0.0079	0.0062	0.0141
144	676.16	672.16	0.0062	0.0000	0.0062
145	650.00	646.00	0.0116	0.0264	0.0380
146	654.80	650.80	0.0062	0.0203	0.0264
147	663.89	659.89	0.0080	0.0123	0.0203
148	684.50	680.50	0.0123	0.0000	0.0123
149	659.42	655.42	0.0125	0.0212	0.0336
150	682.72	678.72	0.0212	0.0000	0.0212
151	679.20	675.20	0.0176	0.0000	0.0176
152	680.00	676.00	0.0097	0.0000	0.0097
153	642.65	631.50	0.0036	1.3941	1.3977
154	667.28	663.28	0.0160	0.0291	0.0450
155	671.41	667.41	0.0000	0.0114	0.0114
156	678.17	674.17	0.0000	0.0114	0.0114
157	678.92	674.92	0.0018	0.0000	0.0018
158	642.00	630.50	0.0036	1.4136	1.4172
159	674.11	670.11	0.0159	0.0000	0.0159
160	639.27	635.27	0.0000	0.0626	0.0626
161	641.92	636.92	0.0000	0.0256	0.0256
162	644.00	634.50	1.2739	0.0380	1.3119
163	643.00	633.00	0.0036	1.3455	1.3491
164	641.74	631.00	0.0000	1.3977	1.3977
165	643.00	630.00	0.0000	1.4172	1.4172
166	641.00	629.50	0.0000	1.4172	1.4172
167	640.87	629.20	0.0018	1.4261	1.4279
168	639.51	628.50	0.0000	1.4481	1.4481
169	669.64	665.64	0.0070	0.0000	0.0070
170	657.00	653.00	0.0018	0.0070	0.0088
171	650.05	646.05	0.0018	0.0123	0.0141
172	643.48	639.48	0.0026	0.0176	0.0203
173	638.23	626.80	0.0000	1.4569	1.4569
174	657.00	645.64	0.0114	0.0000	0.0114
175	689.00	679.19	0.0114	0.0000	0.0114
176	676.00	669.00	0.0009	0.0114	0.0123
177	675.00	668.00	0.0000	0.2174	0.2174
178	675.00	666.00	0.0000	0.2174	0.2174
179	675.00	665.00	0.0053	0.2210	0.2263
180	668.00	661.00	0.0123	0.2263	0.2386
181	657.00	651.00	0.0018	0.2386	0.2404
182	656.00	650.00	0.0044	0.2562	0.2606
183	656.00	649.00	0.0009	0.2729	0.2738
184	655.00	648.00	0.0026	0.2738	0.2764
185	655.00	645.00	0.0062	0.2896	0.2958

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
186	650.00	640.10	0.0053	0.3072	0.3125
187	636.81	625.80	0.0036	0.3125	0.3161
188	634.90	625.00	0.0000	1.7730	1.7730
189	630.12	620.00	0.0000	1.9633	1.9633
190	633.16	624.00	0.0054	1.7730	1.7784
191	642.00	630.32	0.0229	0.0000	0.0229
192	639.34	635.34	0.0220	0.0000	0.0220
193	661.00	650.50	0.0510	0.0000	0.0510
194	663.00	656.00	0.0581	0.0000	0.0581
195	652.00	645.00	0.0229	0.1091	0.1320
196	660.00	653.00	0.0370	0.0000	0.0370
197	643.00	631.95	0.0035	0.0370	0.0405
198	641.00	630.48	0.0009	0.1725	0.1734
199	640.00	629.51	0.0000	0.1954	0.1954
200	640.00	629.00	0.0361	0.1954	0.2314
201	640.00	628.50	0.0035	0.2543	0.2578
202	657.86	640.44	0.0000	1.4406	1.4406
203	651.68	639.30	0.0000	1.4424	1.4424
204	635.35	627.53	0.0000	0.2086	0.2086
205	627.03	613.90	0.0000	0.1188	0.1188
206	642.00	630.70	0.0176	0.0000	0.0176
207	637.00	626.60	0.0000	0.2754	0.2754
208	692.00	681.50	0.0044	0.0493	0.0537
209	691.63	687.63	0.0035	0.0000	0.0035
210	692.87	688.87	0.0035	0.0000	0.0035
211	692.00	686.00	0.0053	0.0070	0.0123
212	688.97	680.00	0.0035	0.0660	0.0695
213	682.39	678.39	0.0026	0.0695	0.0722
214	678.00	673.10	0.0035	0.0722	0.0757
215	694.00	690.00	0.0150	0.0000	0.0150
216	684.36	672.00	0.0035	0.0906	0.0942
217	691.85	687.85	0.0176	0.0000	0.0176
218	685.00	670.90	0.0035	0.1118	0.1153
219	693.50	689.42	0.0018	0.0000	0.0018
220	692.65	688.63	0.0070	0.0018	0.0088
221	687.02	683.02	0.0026	0.0088	0.0114
222	680.80	676.80	0.0044	0.0114	0.0158
223	688.76	684.76	0.0167	0.0000	0.0167
224	681.00	669.80	0.0018	0.1320	0.1338
225	678.34	669.14	0.0009	0.1478	0.1487
226	675.00	668.49	0.0009	0.1646	0.1654
227	675.00	668.10	0.0000	0.1654	0.1654
228	667.43	663.43	0.0000	0.1654	0.1654
229	660.66	656.66	0.0000	0.1654	0.1654
230	652.07	648.07	0.0000	0.3814	0.3814
231	617.00	613.00	0.0000	0.7073	0.7073

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FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
232	623.02	619.02	0.0000	0.7073	0.7073
233	634.54	630.54	0.0018	0.5957	0.5975
234	642.74	633.00	0.0018	0.5939	0.5957
235	645.01	634.00	0.0054	0.5885	0.5939
236	646.60	637.50	0.0000	0.5885	0.5885
237	646.27	637.60	0.0000	0.5885	0.5885
238	649.49	645.49	0.0054	0.2017	0.2071
239	654.00	647.00	0.0018	0.1999	0.2017
240	715.79	702.58	0.0202	0.0950	0.1153
241	713.78	701.32	0.0308	0.1153	0.1461
242	707.86	697.69	0.0000	0.2112	0.2112
243	708.74	696.43	0.0255	0.2112	0.2367
244	709.51	694.41	0.0370	0.2367	0.2737
245	697.57	685.41	0.0026	0.2948	0.2974
246	702.25	695.20	0.0211	0.0000	0.0211
247	699.14	684.09	0.0035	0.3344	0.3379
248	693.35	682.77	0.0035	0.3898	0.3934
249	683.16	672.11	0.0018	0.4022	0.4039
250	668.43	660.38	0.0062	0.4171	0.4233
251	690.59	684.04	0.0132	0.0000	0.0132
252	656.00	647.39	0.0000	0.7383	0.7383
253	652.94	646.89	0.0000	0.7383	0.7383
254	628.48	619.55	0.0035	0.8765	0.8800
255	634.67	627.08	0.0158	0.0000	0.0158
256	651.29	640.84	0.0070	0.1100	0.1170
257	679.35	670.87	0.0202	0.0000	0.0202
258	659.57	648.16	0.0044	0.0854	0.0898
259	661.88	652.60	0.0097	0.0387	0.0484
260	685.49	673.84	0.0220	0.0167	0.0387
261	702.55	696.00	0.0167	0.0000	0.0167
262	684.59	677.53	0.0370	0.0000	0.0370
263	666.17	658.54	0.0132	0.0273	0.0405
264	642.59	634.66	0.0035	0.0537	0.0572
265	671.57	665.52	0.0132	0.0000	0.0132
266	638.66	628.22	0.0070	0.0845	0.0915
267	653.78	643.95	0.0079	0.0194	0.0273
268	654.48	647.43	0.0194	0.0000	0.0194
269	653.36	646.31	0.0141	0.0000	0.0141
270	626.58	617.80	0.0106	0.9398	0.9504
271	661.10	652.34	0.0414	0.0000	0.0414
272	627.49	618.69	0.0044	0.9214	0.9258
273	632.66	615.97	0.0114	0.9645	0.9759
274	646.22	640.17	0.0141	0.0000	0.0141
275	626.83	614.51	0.0035	1.0674	1.0710
276	626.86	613.48	0.0158	1.0806	1.0965
277	623.97	610.89	0.0000	1.1106	1.1106

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FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
278	628.22	622.17	0.0141	0.0000	0.0141
279	629.72	623.67	0.0097	0.0000	0.0097
280	624.65	606.77	0.0000	1.1106	1.1106
281	621.00	607.50	0.0000	0.0000	0.0000
282	680.94	673.59	0.0088	0.0000	0.0088
283	713.91	705.91	0.0370	0.0000	0.0370
284	709.71	699.50	0.0651	0.0000	0.0651
285	676.69	665.28	0.0000	0.0238	0.0238
286	684.35	677.74	0.0678	0.0000	0.0678
287	686.89	679.40	0.0088	0.0000	0.0088
288	681.88	675.31	0.0220	0.0000	0.0220
289	674.27	661.54	0.0000	0.0634	0.0634
290	680.15	662.79	0.0088	0.0326	0.0414
291	678.42	664.04	0.0088	0.0238	0.0326
292	657.93	647.93	0.0000	0.1999	0.1999
293	688.12	680.00	0.0202	0.0000	0.0202
294	685.74	675.28	0.0044	0.0317	0.0361
295	686.10	677.87	0.0114	0.0000	0.0114
296	686.35	674.16	0.0035	0.0422	0.0458
297	686.50	679.94	0.0062	0.0000	0.0062
298	687.19	673.27	0.0044	0.0493	0.0537
299	687.72	680.79	0.0035	0.0000	0.0035
300	683.66	672.05	0.0202	0.0669	0.0871
301	689.48	683.51	0.0132	0.0000	0.0132
302	674.98	667.28	0.0000	0.1399	0.1399
303	688.39	683.19	0.0229	0.0000	0.0229
304	690.09	684.74	0.0299	0.0000	0.0299
305	692.12	678.88	0.0000	0.8862	0.8862
306	677.34	663.81	0.0141	0.9363	0.9504
307	673.34	665.85	0.0317	0.0554	0.0871
308	685.55	677.81	0.0194	0.0000	0.0194
309	683.15	668.86	0.0361	0.0000	0.0361
310	672.84	665.47	0.0088	0.0000	0.0088
311	673.46	666.46	0.0554	0.0000	0.0554
312	652.00	645.00	0.0361	0.0000	0.0361
313	655.00	649.00	0.0000	0.2160	0.2160
314	660.00	656.00	0.0000	0.1620	0.1620
315	665.00	658.50	0.0000	0.1080	0.1080
316	671.00	664.00	0.0540	0.0000	0.0540
317	677.00	670.00	0.0540	0.0000	0.0540
318	670.00	663.00	0.0540	0.0000	0.0540
319	673.00	667.00	0.0540	0.0000	0.0540
320	659.72	648.58	0.0070	1.1766	1.1836
321	652.90	639.66	0.0000	1.4406	1.4406
322	661.52	651.66	0.0000	0.1399	0.1399
323	642.14	619.50	0.0000	2.0628	2.0628

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Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
324	644.75	634.24	0.0484	0.0748	0.1232
325	669.84	662.79	0.0273	0.0000	0.0273
326	631.39	620.64	0.0053	0.1170	0.1223
327	667.06	660.05	0.0000	0.3150	0.3150
328	687.80	678.10	0.0079	0.0528	0.0607
329	703.09	695.12	0.0185	0.0343	0.0528
330	707.36	699.70	0.0158	0.0185	0.0343
331	712.25	705.20	0.0079	0.0106	0.0185
332	716.88	709.51	0.0106	0.0000	0.0106
333	715.72	708.81	0.0519	0.0000	0.0519
334	665.00	656.25	0.0000	0.3150	0.3150
335	663.00	657.00	0.0000	0.3150	0.3150
336	697.70	677.25	0.0000	0.2543	0.2543
337	714.42	706.45	0.0950	0.0000	0.0950
338	701.95	693.00	0.0220	0.0000	0.0220
339	698.12	683.00	0.0000	0.4145	0.4145
340	699.36	688.00	0.0000	0.3925	0.3925
341	692.05	679.33	0.0000	0.8862	0.8862
342	679.00	658.95	0.0600	0.0000	0.0600
343	676.08	670.00	0.0238	0.0000	0.0238
344	676.08	670.00	0.0220	0.0000	0.0220
345	635.35	614.98	0.0000	2.2713	2.2713
346	700.78	689.42	0.0000	0.3925	0.3925
347	710.14	698.78	0.0334	0.0000	0.0334
348	704.15	692.79	0.0097	0.3494	0.3590
349	709.01	697.65	0.0079	0.0651	0.0730
350	713.82	702.37	0.0000	0.0370	0.0370
351	719.97	708.52	0.0370	0.0000	0.0370
352	717.53	706.17	0.0282	0.0000	0.0282
353	710.67	694.00	0.0202	0.2561	0.2763
354	666.25	650.64	0.0062	1.0903	1.0965
355	675.60	665.60	0.0449	0.0000	0.0449
356	674.28	667.08	0.0801	0.0000	0.0801
357	676.69	669.69	0.0554	0.0000	0.0554
358	656.32	641.44	0.0070	1.2390	1.2461
359	660.14	651.40	0.0132	0.1813	0.1945
360	672.00	665.00	0.0229	0.0000	0.0229
361	685.85	675.46	0.0282	0.8994	0.9275
362	693.00	677.92	0.0132	0.8862	0.8994
363	722.00	715.00	0.0211	0.0000	0.0211
364	719.00	712.00	0.0167	0.0598	0.0766
365	721.00	714.00	0.0378	0.0220	0.0598
366	722.00	715.00	0.0026	0.0194	0.0220
367	733.00	726.00	0.0194	0.0000	0.0194
368	707.00	700.00	0.0088	0.0440	0.0528
369	725.00	718.00	0.0185	0.0000	0.0185

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Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
370	720.00	713.00	0.0255	0.0000	0.0255
371	713.00	700.00	0.0141	0.0898	0.1038
372	725.00	711.50	0.0035	0.0352	0.0387
373	733.00	723.00	0.0229	0.0000	0.0229
374	720.00	713.00	0.0123	0.0000	0.0123
375	735.00	728.00	0.0440	0.0000	0.0440
376	707.53	696.53	0.0000	0.1734	0.1734
377	713.51	706.51	0.0000	0.0537	0.0537
378	720.85	713.85	0.0202	0.0079	0.0282
379	721.15	714.15	0.0255	0.0000	0.0255
380	726.51	719.51	0.0079	0.0000	0.0079
381	710.66	694.75	0.0000	0.2561	0.2561
382	713.18	703.00	0.0000	0.0405	0.0405
383	726.54	719.54	0.0299	0.0000	0.0299
384	726.84	719.84	0.0290	0.0000	0.0290
385	700.22	685.81	0.0000	0.4717	0.4717
386	699.66	687.25	0.0000	0.4717	0.4717
387	698.53	688.61	0.0000	0.4717	0.4717
388	703.57	693.02	0.0000	0.4717	0.4717
389	716.39	710.00	0.0308	0.0000	0.0308
390	699.69	692.34	0.0000	0.4717	0.4717
391	704.97	695.51	0.0273	0.4136	0.4409
392	706.84	696.28	0.0000	0.4136	0.4136
393	708.51	696.97	0.0000	0.3942	0.3942
394	711.52	697.75	0.0000	0.3749	0.3749
395	718.37	700.29	0.0000	0.1461	0.1461
396	714.19	702.14	0.0114	0.0651	0.0766
397	715.00	702.95	0.0000	0.0651	0.0651
398	741.00	731.00	0.0238	0.0000	0.0238
399	716.82	707.85	0.0000	0.0695	0.0695
400	718.39	709.00	0.0695	0.0000	0.0695
401	730.00	723.00	0.0000	0.2182	0.2182
402	748.00	741.00	0.0466	0.0378	0.0845
403	751.00	744.00	0.0000	0.0378	0.0378
404	762.00	755.00	0.0194	0.0000	0.0194
405	760.00	753.00	0.0185	0.0000	0.0185
406	739.00	732.00	0.0282	0.1056	0.1338
407	744.00	736.00	0.0458	0.0598	0.1056
408	744.00	737.00	0.0000	0.0598	0.0598
409	764.00	757.00	0.0343	0.0000	0.0343
410	762.00	755.00	0.0255	0.0000	0.0255
411	748.00	740.00	0.0414	0.0000	0.0414
412	650.00	638.43	0.0000	0.3814	0.3814
413	715.92	711.00	0.0106	0.0000	0.0106
414	712.20	705.00	0.0194	0.0000	0.0194
415	709.79	702.50	0.0194	0.0000	0.0194

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FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
416	722.47	715.47	0.0370	0.0000	0.0370
417	719.02	712.02	0.0334	0.0000	0.0334
418	717.45	708.77	0.0132	0.0290	0.0422
419	720.47	707.83	0.0106	0.0299	0.0405
420	716.20	703.53	0.0194	0.0537	0.0730
421	710.00	703.00	0.0070	0.0440	0.0510
422	647.57	639.60	0.0018	0.0000	0.0018
423	650.00	643.00	0.1080	0.0000	0.1080
424	629.82	625.81	0.0018	0.7055	0.7073
425	625.31	609.57	0.0000	2.3901	2.3901
426	621.61	606.67	0.0000	2.6656	2.6656
427	619.19	605.83	0.0000	2.6656	2.6656
428	617.08	604.98	0.0000	2.6656	2.6656
429	617.43	604.14	0.0000	2.6656	2.6656
430	614.23	603.75	0.0000	3.3728	3.3728
431	613.00	603.57	0.0000	3.3728	3.3728
432	611.00	603.16	0.0000	3.3728	3.3728
433	611.23	602.41	0.0000	3.3728	3.3728
434	704.25	688.76	0.0000	0.0000	0.0000
435	657.20	635.85	0.0000	0.6204	0.6204
436	649.22	628.55	0.0000	0.6204	0.6204
437	642.58	627.00	0.0000	0.6204	0.6204
438	688.44	670.33	0.0000	0.6204	0.6204
439	696.60	682.54	0.0000	0.6204	0.6204
440	698.97	686.12	0.6204	0.0000	0.6204
441	691.08	675.45	0.0000	0.6204	0.6204
460	682.86	664.17	0.0000	0.6204	0.6204
473	642.54	626.31	0.0000	0.6204	0.6204
474	651.00	627.00	0.0000	0.0000	0.0000
477	662.59	648.99	0.0000	0.0600	0.0600
488	621.06	600.07	0.0000	0.0000	0.0000
489	668.34	664.34	0.0000	0.0000	0.0000
491	620.67	607.00	0.0000	0.0000	0.0000
492	612.00	604.00	0.0000	0.0000	0.0000
493	617.21	603.50	0.0000	0.0000	0.0000
494	621.75	602.00	0.0000	0.0000	0.0000
495	615.51	603.00	0.0000	0.0000	0.0000
496	729.11	722.11	0.0000	0.0000	0.0000
497	655.41	644.22	0.0000	0.0000	0.0000
498	660.78	650.78	0.0000	0.0000	0.0000
499	656.22	645.50	0.0000	0.0000	0.0000

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FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-1	240	702.58	241	701.32	291.4	0.004	8.0	0.013	1.84	0.1153	34.4
CO-2	241	701.32	242	697.69	852.2	0.004	8.0	0.013	1.95	0.1461	40.6
CO-3	242	697.69	243	696.43	290.7	0.004	8.0	0.013	2.17	0.2112	45.1
CO-4	243	696.43	244	694.41	398.9	0.005	8.0	0.013	2.37	0.2367	45.8
CO-5	239	647.00	238	645.49	401.5	0.004	10.0	0.013	2.01	0.2017	31.1
CO-6	244	694.41	245	685.41	1,382.5	0.007	8.0	0.013	2.70	0.2737	47.6
CO-7	238	645.49	237	637.60	411.9	0.019	10.0	0.013	3.61	0.2071	38.7
CO-8	245	685.41	246	695.20	1,204.2	0.008	8.0	0.013	1.40	0.0211	30.7
CO-9	237	637.60	236	637.50	8.5	0.012	12.0	0.013	4.02	0.5885	37.0
CO-10	245	685.41	247	684.09	317.3	0.004	10.0	0.013	2.31	0.2974	40.5
CO-11	236	637.50	235	634.00	466.8	0.007	12.0	0.013	3.42	0.5885	43.3
CO-12	247	684.09	248	682.77	308.0	0.004	10.0	0.013	2.42	0.3379	41.4
CO-13	235	634.00	234	633.00	295.1	0.003	12.0	0.013	2.56	0.5939	43.4
CO-14	248	682.77	249	672.11	314.3	0.034	10.0	0.013	5.33	0.3934	41.4
CO-15	234	633.00	233	630.54	378.4	0.007	12.0	0.013	3.25	0.5957	40.3
CO-16	249	672.11	250	660.38	321.6	0.036	10.0	0.013	5.51	0.4039	42.2
CO-17	250	660.38	251	684.04	730.2	0.032	8.0	0.013	1.95	0.0132	31.5
CO-18	233	630.54	424	625.81	140.6	0.034	12.0	0.013	5.88	0.5975	42.2
CO-19	424	625.81	232	619.02	202.2	0.034	12.0	0.013	6.17	0.7073	35.9
CO-20	232	619.02	231	613.00	312.8	0.019	12.0	0.013	5.05	0.7073	38.0
CO-21	250	660.38	252	647.39	332.3	0.039	10.0	0.013	5.73	0.4233	59.5
CO-22	231	613.00	430	605.89	258.6	0.027	12.0	0.013	5.75	0.7073	36.6
CO-23	252	647.39	253	646.89	158.8	0.003	10.0	0.013	2.56	0.7383	66.7
CO-24	253	646.89	254	619.55	3,440.3	0.008	10.0	0.013	3.72	0.7383	65.9
CO-25	230	648.07	412	638.43	266.7	0.036	10.0	0.013	5.40	0.3814	45.8
CO-26	412	638.43	237	637.60	309.3	0.003	10.0	0.013	2.10	0.3814	49.6
CO-27	229	656.66	230	648.07	315.5	0.027	10.0	0.013	3.83	0.1654	33.4
CO-28	255	627.08	254	619.55	590.6	0.013	8.0	0.013	1.50	0.0158	52.0
CO-29	228	663.43	229	656.66	460.3	0.015	10.0	0.013	3.08	0.1654	23.6
CO-30	256	640.84	326	620.64	295.6	0.068	8.0	0.013	4.91	0.1170	31.2

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Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-31	227	668.10	228	663.43	339.0	0.014	10.0	0.013	3.01	0.1654	23.8
CO-32	257	670.87	256	640.84	980.6	0.031	8.0	0.013	2.20	0.0202	20.6
CO-33	226	668.49	227	668.10	100.5	0.004	10.0	0.013	1.92	0.1654	27.8
CO-34	258	648.16	256	640.84	303.2	0.024	8.0	0.013	3.14	0.0898	27.4
CO-35	225	669.14	226	668.49	136.6	0.005	8.0	0.013	2.04	0.1487	36.3
CO-36	259	652.60	258	648.16	309.8	0.014	8.0	0.013	2.18	0.0484	22.1
CO-37	224	669.80	225	669.14	134.9	0.005	8.0	0.013	2.00	0.1338	34.8
CO-38	260	673.84	259	652.60	1,053.0	0.020	8.0	0.013	2.30	0.0387	17.6
CO-39	223	684.76	224	669.80	689.2	0.022	6.0	0.013	1.91	0.0167	30.3
CO-40	260	673.84	261	696.00	818.6	0.027	8.0	0.013	1.99	0.0167	13.7
CO-41	262	677.53	258	648.16	1,100.3	0.027	8.0	0.013	2.50	0.0370	20.9
CO-42	222	676.80	226	668.49	423.1	0.020	8.0	0.013	1.75	0.0158	23.6
CO-43	263	658.54	264	634.66	516.9	0.046	8.0	0.013	3.12	0.0405	18.7
CO-44	221	683.02	222	676.80	213.6	0.029	8.0	0.013	1.80	0.0114	9.8
CO-45	265	665.52	264	634.66	750.4	0.041	8.0	0.013	2.12	0.0132	15.0
CO-46	220	688.63	221	683.02	487.0	0.012	8.0	0.013	1.20	0.0088	8.4
CO-47	266	628.22	264	634.66	293.0	0.022	8.0	0.013	2.66	0.0572	23.1
CO-48	219	689.42	220	688.63	193.8	0.004	6.0	0.013	0.54	0.0018	8.3
CO-49	267	643.95	266	628.22	481.0	0.033	8.0	0.013	2.44	0.0273	19.9
CO-50	218	670.90	224	669.80	266.6	0.004	8.0	0.013	1.81	0.1153	33.1
CO-51	268	647.43	267	643.95	694.3	0.005	8.0	0.013	1.15	0.0194	13.4
CO-52	217	687.85	218	670.90	698.4	0.024	6.0	0.013	2.02	0.0176	29.8
CO-53	269	646.31	270	617.80	581.9	0.049	8.0	0.013	2.30	0.0141	52.4
CO-54	272	618.69	271	652.34	1,548.7	0.022	8.0	0.013	2.41	0.0414	57.1
CO-55	216	672.00	218	670.90	232.2	0.005	8.0	0.013	1.79	0.0942	30.5
CO-56	254	619.55	272	618.69	296.6	0.003	12.0	0.013	2.65	0.8800	63.4
CO-57	215	690.00	216	672.00	860.3	0.021	8.0	0.013	1.76	0.0150	19.3
CO-58	272	618.69	270	617.80	309.2	0.003	12.0	0.013	2.67	0.9258	63.9
CO-59	270	617.80	273	615.97	565.7	0.003	12.0	0.013	2.81	0.9504	64.6
CO-60	214	673.10	216	672.00	245.5	0.004	8.0	0.013	1.65	0.0757	27.0

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CO-61	274	640.17	273	615.97	796.6	0.030	8.0	0.013	1.95	0.0141	54.5
CO-62	213	678.39	214	673.10	185.1	0.029	8.0	0.013	3.13	0.0722	24.3
CO-63	273	615.97	275	614.51	486.5	0.003	12.0	0.013	2.74	0.9759	66.3
CO-64	212	680.00	213	678.39	304.2	0.005	8.0	0.013	1.71	0.0695	23.2
CO-65	266	628.22	275	614.51	553.2	0.025	8.0	0.013	3.19	0.0915	62.9
CO-66	211	686.00	212	680.00	267.7	0.022	8.0	0.013	1.68	0.0123	16.5
CO-67	275	614.51	276	613.48	291.9	0.004	12.0	0.013	2.98	1.0710	66.8
CO-68	210	688.87	211	686.00	157.2	0.018	6.0	0.013	1.12	0.0035	9.8
CO-69	276	613.48	277	610.89	710.4	0.004	12.0	0.013	3.04	1.0965	61.3
CO-70	209	687.63	211	686.00	83.5	0.020	8.0	0.013	1.09	0.0035	7.1
CO-71	278	622.17	277	610.89	673.5	0.017	8.0	0.013	1.60	0.0141	46.8
CO-72	208	681.50	212	680.00	253.8	0.006	8.0	0.013	1.65	0.0537	21.9
CO-73	279	623.67	276	613.48	406.8	0.025	8.0	0.013	1.62	0.0097	54.1
CO-74	277	610.89	280	606.77	365.3	0.011	12.0	0.013	4.70	1.1106	59.1
CO-77	282	673.59	249	672.11	326.8	0.005	8.0	0.013	0.87	0.0088	30.5
CO-78	283	705.91	247	684.09	1,330.0	0.016	8.0	0.013	2.11	0.0370	34.2
CO-81	207	626.60	426	612.04	307.7	0.047	8.0	0.013	5.53	0.2754	36.5
CO-82	284	699.50	242	697.69	287.2	0.006	8.0	0.013	1.78	0.0651	33.3
CO-83	206	630.70	207	626.60	911.8	0.004	8.0	0.013	1.08	0.0176	29.1
CO-85	345	614.98	425	609.57	1,421.9	0.004	30.0	0.013	3.63	2.2713	25.2
CO-86	289	661.54	17	660.12	285.9	0.005	8.0	0.013	1.62	0.0634	28.6
CO-87	204	627.53	345	626.00	36.4	0.042	8.0	0.013	4.90	0.2086	32.0
CO-88	286	677.74	17	660.12	2,621.1	0.007	8.0	0.013	1.85	0.0678	28.2
CO-89	202	640.44	321	639.66	250.2	0.003	15.0	0.013	3.09	1.4406	56.1
CO-90	201	628.50	207	626.60	240.3	0.008	8.0	0.013	2.85	0.2578	44.9
CO-91	285	665.28	287	679.40	594.4	0.024	8.0	0.013	1.55	0.0088	11.3
CO-92	200	629.00	201	628.50	107.3	0.005	8.0	0.013	2.28	0.2314	45.1
CO-93	288	675.31	289	661.54	1,167.4	0.012	8.0	0.013	1.61	0.0220	17.7
CO-94	199	629.51	200	629.00	270.2	0.002	8.0	0.013	1.56	0.1954	50.2
CO-95	289	661.54	290	662.79	297.0	0.004	8.0	0.013	1.35	0.0414	21.1

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CO-96	198	630.48	199	629.51	271.9	0.004	8.0	0.013	1.92	0.1734	48.3
CO-97	197	631.95	198	630.48	272.7	0.005	8.0	0.013	1.47	0.0405	30.1
CO-98	285	665.28	291	664.04	295.7	0.004	8.0	0.013	1.15	0.0238	15.9
CO-99	196	653.00	197	631.95	1,538.4	0.014	8.0	0.013	1.98	0.0370	17.1
CO-100	291	664.04	290	662.79	284.2	0.004	8.0	0.013	1.28	0.0326	18.2
CO-101	292	647.93	239	647.00	246.9	0.004	10.0	0.013	2.00	0.1999	32.7
CO-102	293	680.00	294	675.28	929.8	0.005	8.0	0.013	1.17	0.0202	15.7
CO-103	295	677.87	294	675.28	357.4	0.007	8.0	0.013	1.12	0.0114	13.7
CO-104	294	675.28	296	674.16	282.6	0.004	8.0	0.013	1.27	0.0361	18.9
CO-105	297	679.94	296	679.00	235.5	0.004	8.0	0.013	0.75	0.0062	7.2
CO-106	195	645.00	198	630.48	884.8	0.016	8.0	0.013	3.07	0.1320	36.7
CO-107	296	674.16	298	673.27	174.1	0.005	8.0	0.013	1.49	0.0458	20.6
CO-108	299	680.79	298	680.00	199.7	0.004	8.0	0.013	0.63	0.0035	5.5
CO-109	194	656.00	195	645.00	692.6	0.016	8.0	0.013	2.39	0.0581	25.8
CO-110	298	673.27	300	672.05	278.6	0.004	8.0	0.013	1.48	0.0537	23.5
CO-111	193	650.50	195	645.00	914.5	0.006	8.0	0.013	1.63	0.0510	25.4
CO-112	301	683.51	300	672.05	815.0	0.014	8.0	0.013	1.47	0.0132	17.4
CO-113	300	672.05	302	667.28	751.5	0.006	8.0	0.013	1.94	0.0871	28.7
CO-114	302	667.28	303	683.19	672.1	0.024	8.0	0.013	2.07	0.0229	22.4
CO-115	192	635.34	199	629.51	829.0	0.007	8.0	0.013	1.35	0.0220	33.5
CO-116	302	667.28	304	684.74	1,027.1	0.017	8.0	0.013	2.01	0.0299	23.3
CO-117	302	667.28	322	651.66	966.7	0.016	8.0	0.013	3.11	0.1399	28.7
CO-118	191	630.32	201	628.50	230.8	0.008	8.0	0.013	1.42	0.0229	28.4
CO-119	305	678.88	362	677.92	177.8	0.005	12.0	0.013	3.37	0.8862	51.9
CO-120	361	675.46	306	663.81	1,437.1	0.008	12.0	0.013	3.97	0.9275	51.1
CO-121	190	624.00	189	620.00	256.5	0.016	18.0	0.013	5.87	1.7784	43.1
CO-122	306	663.81	15	656.95	666.8	0.010	12.0	0.013	4.36	0.9504	52.7
CO-123	307	665.85	15	656.95	1,427.9	0.006	8.0	0.013	1.93	0.0871	53.2
CO-124	308	677.81	307	665.85	849.6	0.014	8.0	0.013	1.65	0.0194	18.6
CO-125	188	625.00	190	624.00	149.2	0.007	18.0	0.013	4.33	1.7730	41.9

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CO-126	309	668.86	307	665.85	582.4	0.005	8.0	0.013	1.40	0.0361	21.3
CO-127	187	625.80	188	625.00	137.1	0.006	8.0	0.013	2.68	0.3161	73.0
CO-128	186	640.10	187	625.80	303.8	0.047	8.0	0.013	5.72	0.3125	50.3
CO-129	185	645.00	186	640.10	598.4	0.008	8.0	0.013	3.00	0.2958	48.1
CO-130	310	665.47	306	663.81	543.5	0.003	8.0	0.013	0.76	0.0088	43.5
CO-131	184	648.00	185	645.00	217.1	0.014	8.0	0.013	3.56	0.2764	46.6
CO-132	183	649.00	184	648.00	189.0	0.005	8.0	0.013	2.50	0.2738	47.3
CO-133	182	650.00	183	649.00	389.0	0.003	8.0	0.013	1.87	0.2606	54.1
CO-134	311	666.46	41	639.00	1,530.1	0.018	8.0	0.013	2.46	0.0554	22.1
CO-135	181	651.00	182	650.00	287.4	0.003	8.0	0.013	2.06	0.2404	55.2
CO-136	180	661.00	181	651.00	687.9	0.015	8.0	0.013	3.48	0.2386	46.8
CO-137	179	665.00	180	661.00	388.6	0.010	8.0	0.013	3.03	0.2263	41.8
CO-138	178	666.00	179	665.00	38.0	0.026	8.0	0.013	4.20	0.2174	40.8
CO-139	177	668.00	178	666.00	336.3	0.006	8.0	0.013	2.45	0.2174	41.0
CO-140	176	669.00	177	668.00	368.4	0.003	8.0	0.013	0.81	0.0123	26.7
CO-141	230	648.07	313	649.00	21.7	0.043	8.0	0.013	4.98	0.2160	45.4
CO-142	314	656.00	313	649.00	339.8	0.021	8.0	0.013	3.54	0.1620	37.4
CO-143	315	658.50	314	656.00	143.4	0.017	8.0	0.013	2.96	0.1080	31.4
CO-144	175	679.19	176	669.00	814.3	0.013	8.0	0.013	1.36	0.0114	10.4
CO-145	316	664.00	315	658.50	272.6	0.020	8.0	0.013	2.54	0.0540	23.9
CO-146	174	645.64	186	640.10	667.4	0.008	6.0	0.013	1.22	0.0114	39.0
CO-147	317	670.00	315	658.50	404.5	0.028	8.0	0.013	2.86	0.0540	23.9
CO-148	173	626.80	188	625.00	365.3	0.005	14.0	0.013	3.68	1.4569	54.8
CO-149	318	663.00	314	656.00	396.1	0.018	8.0	0.013	2.43	0.0540	27.2
CO-150	168	628.50	173	626.80	459.3	0.004	14.0	0.013	3.29	1.4481	58.2
CO-151	313	649.00	319	667.00	517.4	0.035	8.0	0.013	3.08	0.0540	30.0
CO-152	172	639.48	168	628.50	391.1	0.028	6.0	0.013	2.21	0.0203	58.6
CO-154	171	646.05	172	639.48	354.8	0.019	6.0	0.013	1.71	0.0141	15.8
CO-155	354	650.64	320	648.58	322.7	0.006	12.0	0.013	3.78	1.0965	56.6
CO-156	15	656.95	354	650.64	360.7	0.017	12.0	0.013	5.44	1.0454	54.8

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CO-157	170	653.00	171	646.05	238.8	0.029	6.0	0.013	1.75	0.0088	12.8
CO-158	321	639.66	203	639.30	105.3	0.003	15.0	0.013	3.20	1.4406	51.5
CO-159	169	665.64	170	653.00	652.8	0.019	6.0	0.013	1.42	0.0070	10.7
CO-160	292	647.93	322	651.66	394.9	0.009	10.0	0.013	2.51	0.1399	28.3
CO-161	203	639.30	323	630.00	377.8	0.025	15.0	0.013	6.63	1.4424	39.8
CO-162	167	629.20	168	628.50	367.2	0.002	14.0	0.013	2.50	1.4279	68.7
CO-163	323	619.50	345	614.98	1,296.4	0.003	30.0	0.013	3.42	2.0628	24.8
CO-164	166	629.50	167	629.20	167.0	0.002	14.0	0.013	2.43	1.4172	77.2
CO-165	43	630.25	324	634.24	897.8	0.004	8.0	0.013	1.89	0.1232	37.9
CO-166	165	630.00	166	629.50	153.0	0.003	14.0	0.013	3.12	1.4172	70.8
CO-167	55	665.37	45	651.86	315.9	0.043	8.0	0.013	2.56	0.0229	18.8
CO-168	46	659.46	324	634.24	889.1	0.028	8.0	0.013	3.16	0.0748	28.2
CO-169	325	662.79	263	658.54	1,005.0	0.004	8.0	0.013	1.20	0.0273	16.4
CO-170	162	634.50	163	633.00	334.4	0.004	14.0	0.013	3.47	1.3119	54.2
CO-171	326	620.64	254	619.55	251.9	0.004	8.0	0.013	1.87	0.1223	63.3
CO-172	252	647.39	334	656.25	262.4	0.034	8.0	0.013	5.09	0.3150	72.2
CO-173	161	636.92	160	635.27	354.0	0.005	8.0	0.013	1.22	0.0256	18.1
CO-174	327	660.05	328	678.10	417.1	0.043	8.0	0.013	3.44	0.0607	34.9
CO-175	158	630.50	165	630.00	200.7	0.002	14.0	0.013	2.80	1.4172	66.1
CO-176	328	678.10	329	695.12	949.3	0.018	8.0	0.013	2.42	0.0528	20.2
CO-177	164	631.00	158	630.50	187.5	0.003	14.0	0.013	2.87	1.3977	67.5
CO-178	329	695.12	330	699.70	756.9	0.006	8.0	0.013	1.45	0.0343	17.8
CO-179	159	670.11	158	630.50	1,038.3	0.038	8.0	0.013	2.18	0.0159	55.3
CO-180	330	699.70	331	705.20	374.2	0.015	8.0	0.013	1.65	0.0185	13.8
CO-181	157	674.92	156	674.17	193.2	0.004	6.0	0.013	0.53	0.0018	9.6
CO-182	331	705.20	332	709.51	705.8	0.006	8.0	0.013	1.03	0.0106	10.3
CO-183	156	674.17	155	667.41	335.7	0.020	6.0	0.013	1.66	0.0114	11.6
CO-184	333	708.81	248	682.77	2,225.1	0.012	8.0	0.013	2.08	0.0519	35.4
CO-185	155	667.41	154	663.28	201.3	0.021	6.0	0.013	1.67	0.0114	18.4
CO-186	335	657.00	334	656.25	142.1	0.005	8.0	0.013	2.58	0.3150	51.1

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CO-187	153	631.50	164	631.00	162.2	0.003	14.0	0.013	3.04	1.3977	64.8
CO-188	335	657.00	327	660.05	174.6	0.017	8.0	0.013	4.02	0.3150	51.1
CO-189	163	633.00	153	631.50	333.0	0.005	14.0	0.013	3.50	1.3491	58.9
CO-190	336	677.25	327	660.05	2,121.0	0.008	8.0	0.013	2.87	0.2543	46.4
CO-191	154	663.28	153	631.50	943.1	0.034	8.0	0.013	2.89	0.0450	59.0
CO-192	152	676.00	156	674.17	322.2	0.006	6.0	0.013	1.01	0.0097	12.9
CO-193	338	693.00	339	683.00	782.3	0.013	8.0	0.013	1.65	0.0220	34.5
CO-194	151	675.20	154	663.28	1,070.0	0.011	8.0	0.013	1.48	0.0176	14.6
CO-195	339	683.00	340	688.00	493.5	0.010	8.0	0.013	3.48	0.3925	55.8
CO-196	150	678.72	149	655.42	1,104.9	0.021	6.0	0.013	2.02	0.0212	20.0
CO-197	339	683.00	341	679.33	137.1	0.027	8.0	0.013	5.06	0.4145	73.6
CO-198	149	655.42	163	633.00	909.9	0.025	6.0	0.013	2.46	0.0336	61.2
CO-199	341	679.33	305	678.88	140.1	0.003	12.0	0.013	2.76	0.8862	55.9
CO-200	22	651.05	342	658.95	617.7	0.013	8.0	0.013	2.23	0.0600	22.4
CO-201	41	639.00	39	622.00	438.3	0.039	8.0	0.013	3.61	0.0810	26.9
CO-202	148	680.50	147	659.89	736.3	0.028	6.0	0.013	1.90	0.0123	15.3
CO-203	147	659.89	146	650.80	495.2	0.018	6.0	0.013	1.91	0.0203	18.5
CO-204	146	650.80	145	646.00	329.3	0.015	6.0	0.013	1.90	0.0264	21.8
CO-205	145	646.00	162	634.50	453.5	0.025	6.0	0.013	2.57	0.0380	61.9
CO-206	346	689.42	340	688.00	142.3	0.010	8.0	0.013	3.46	0.3925	52.6
CO-207	347	698.78	346	689.42	937.7	0.010	8.0	0.013	1.72	0.0334	35.2
CO-208	144	672.16	143	662.41	374.8	0.026	6.0	0.013	1.49	0.0062	11.9
CO-209	348	692.79	346	689.42	337.1	0.010	8.0	0.013	3.39	0.3590	53.7
CO-210	143	662.41	142	651.77	460.6	0.023	6.0	0.013	1.85	0.0141	15.2
CO-211	349	697.65	348	692.79	485.6	0.010	8.0	0.013	2.17	0.0730	37.8
CO-212	142	651.77	141	645.63	435.8	0.014	6.0	0.013	1.66	0.0176	17.7
CO-213	350	702.37	349	697.65	472.0	0.010	8.0	0.013	1.77	0.0370	19.6
CO-214	141	645.63	161	636.92	486.9	0.018	6.0	0.013	2.02	0.0256	19.7
CO-215	351	708.52	350	702.37	615.0	0.010	8.0	0.013	1.77	0.0370	15.5
CO-216	140	643.95	160	635.27	617.3	0.014	6.0	0.013	2.07	0.0370	25.9

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CO-217	352	706.17	349	697.65	867.6	0.010	8.0	0.013	1.63	0.0282	18.6
CO-218	139	661.44	140	643.95	789.8	0.022	6.0	0.013	2.40	0.0352	23.2
CO-219	138	669.70	139	661.44	345.6	0.024	6.0	0.013	2.14	0.0220	20.5
CO-220	137	680.00	138	669.70	508.1	0.020	6.0	0.013	1.87	0.0167	16.8
CO-221	353	694.00	348	692.79	652.5	0.002	8.0	0.013	1.66	0.2763	60.8
CO-222	136	684.94	137	680.00	379.1	0.013	6.0	0.013	1.32	0.0088	13.5
CO-223	355	665.60	354	650.64	1,778.9	0.008	8.0	0.013	1.77	0.0449	50.7
CO-224	135	679.62	134	653.27	1,335.1	0.020	6.0	0.013	1.38	0.0062	16.3
CO-225	134	653.27	133	644.00	562.7	0.016	6.0	0.013	2.18	0.0361	21.0
CO-226	133	644.00	12th Street LS (Downtown)	622.00	549.6	0.040	6.0	0.013	2.98	0.0361	19.2
CO-227	356	667.08	320	648.58	2,402.2	0.008	8.0	0.013	2.04	0.0801	55.3
CO-228	132	627.15	12th Street LS (Downtown)	622.00	244.8	0.021	6.0	0.013	2.74	0.0592	26.3
CO-229	357	669.69	358	641.44	1,728.6	0.016	8.0	0.013	2.38	0.0554	60.0
CO-230	131	628.00	132	627.15	405.8	0.002	6.0	0.013	1.20	0.0592	35.6
CO-231	130	629.50	131	628.00	197.5	0.008	8.0	0.013	1.83	0.0574	25.6
CO-232	129	630.50	130	629.50	383.8	0.003	8.0	0.013	1.26	0.0574	23.0
CO-233	128	631.00	129	630.50	153.7	0.003	8.0	0.013	1.18	0.0359	22.4
CO-234	360	665.00	359	651.40	1,183.8	0.011	8.0	0.013	1.61	0.0229	25.4
CO-235	127	632.00	128	631.00	351.8	0.003	8.0	0.013	1.08	0.0305	18.8
CO-236	362	677.92	361	675.46	471.7	0.005	12.0	0.013	3.34	0.8994	51.6
CO-237	126	633.00	127	632.00	344.4	0.003	8.0	0.013	1.05	0.0269	17.7
CO-238	5	689.00	363	715.00	673.2	0.039	8.0	0.013	2.42	0.0211	29.6
CO-239	125	634.00	126	633.00	179.5	0.006	8.0	0.013	0.99	0.0108	13.3
CO-240	364	712.00	2	688.00	890.5	0.027	8.0	0.013	3.12	0.0766	33.7
CO-241	124	634.50	125	634.00	212.1	0.002	8.0	0.013	0.66	0.0072	9.5

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CO-242	365	714.00	364	712.00	276.5	0.007	8.0	0.013	1.83	0.0598	22.2
CO-243	123	635.37	126	633.00	321.6	0.007	8.0	0.013	1.05	0.0090	12.6
CO-244	366	715.00	365	714.00	306.0	0.003	8.0	0.013	1.03	0.0220	17.9
CO-245	122	635.00	127	632.00	178.5	0.017	8.0	0.013	0.84	0.0018	11.0
CO-246	367	726.00	366	715.00	807.7	0.014	8.0	0.013	1.63	0.0194	13.4
CO-247	121	635.41	127	632.00	173.3	0.020	8.0	0.013	0.89	0.0018	11.0
CO-248	368	700.00	7	694.00	460.6	0.013	8.0	0.013	2.16	0.0528	30.8
CO-249	120	635.00	128	631.00	150.1	0.027	8.0	0.013	1.40	0.0054	12.7
CO-250	369	718.00	368	700.00	841.0	0.021	8.0	0.013	1.88	0.0185	15.5
CO-251	119	634.00	126	633.00	500.8	0.002	8.0	0.013	0.62	0.0072	13.5
CO-252	370	713.00	368	700.00	1,071.5	0.012	8.0	0.013	1.70	0.0255	16.5
CO-253	118	627.79	117	626.32	289.7	0.005	8.0	0.013	0.55	0.0018	3.9
CO-254	371	700.00	7	694.00	1,023.4	0.006	8.0	0.013	1.99	0.1038	35.2
CO-255	117	626.32	116	618.45	198.6	0.040	6.0	0.013	1.19	0.0018	13.4
CO-256	372	711.50	371	700.00	310.2	0.037	8.0	0.013	2.85	0.0387	22.4
CO-257	115	621.81	116	618.45	445.2	0.008	6.0	0.013	1.54	0.0283	21.1
CO-258	373	723.00	372	711.50	1,099.7	0.010	8.0	0.013	1.56	0.0229	14.7
CO-259	114	623.31	115	621.81	233.6	0.006	6.0	0.013	1.33	0.0213	19.4
CO-260	374	713.00	372	711.50	582.4	0.003	8.0	0.013	0.80	0.0123	14.3
CO-261	113	628.33	114	623.31	342.6	0.015	6.0	0.013	1.41	0.0097	15.1
CO-262	421	703.00	371	700.00	712.0	0.004	8.0	0.013	1.44	0.0510	24.8
CO-263	375	728.00	421	703.00	1,201.3	0.021	8.0	0.013	2.42	0.0440	19.6
CO-264	1	698.09	376	696.53	355.3	0.004	8.0	0.013	1.77	0.1003	33.9
CO-265	112	615.01	111	611.01	237.9	0.017	6.0	0.013	1.59	0.0123	15.7
CO-266	420	703.53	376	696.53	605.5	0.012	8.0	0.013	2.28	0.0730	30.5
CO-267	377	706.51	420	703.53	298.4	0.010	8.0	0.013	1.98	0.0537	21.3
CO-268	111	611.01	110	608.70	275.6	0.008	6.0	0.013	1.48	0.0220	25.3
CO-269	378	713.85	377	706.51	733.8	0.010	8.0	0.013	1.64	0.0282	16.9
CO-270	110	608.70	109	604.00	344.3	0.014	6.0	0.013	2.48	0.0705	30.1
CO-271	379	714.15	377	706.51	764.5	0.010	8.0	0.013	1.59	0.0255	16.6

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CO-272	380	719.51	378	713.85	565.7	0.010	8.0	0.013	1.11	0.0079	10.8
CO-273	109	604.00	Meadowlands LS	575.00	387.8	0.075	6.0	0.013	4.51	0.0705	25.4
CO-275	116	618.45	108	614.00	188.1	0.024	6.0	0.013	2.38	0.0318	23.3
CO-276	376	696.53	381	694.75	339.3	0.005	8.0	0.013	2.21	0.1734	43.5
CO-277	108	614.00	110	608.70	259.6	0.020	6.0	0.013	2.45	0.0415	28.8
CO-278	381	694.75	382	703.00	251.3	0.033	8.0	0.013	2.76	0.0405	33.0
CO-279	107	614.58	110	608.70	315.6	0.019	6.0	0.013	1.40	0.0070	21.4
CO-280	419	707.83	382	703.00	385.6	0.013	8.0	0.013	1.97	0.0405	15.8
CO-281	383	719.54	419	707.83	1,171.0	0.010	8.0	0.013	1.67	0.0299	15.8
CO-282	418	708.77	381	694.75	473.6	0.030	8.0	0.013	2.71	0.0422	33.2
CO-283	384	719.84	418	708.77	1,106.7	0.010	8.0	0.013	1.65	0.0290	15.9
CO-284	385	685.81	341	679.33	484.7	0.013	12.0	0.013	3.96	0.4717	48.0
CO-285	105	622.00	104	617.00	414.5	0.012	8.0	0.013	1.22	0.0088	8.6
CO-286	386	687.25	385	685.81	641.4	0.002	12.0	0.013	2.07	0.4717	40.8
CO-287	104	617.00	103	615.00	206.6	0.010	8.0	0.013	1.26	0.0123	13.3
CO-288	387	688.61	386	687.25	444.9	0.003	12.0	0.013	2.32	0.4717	44.0
CO-289	103	615.00	102	609.00	1,139.8	0.005	8.0	0.013	1.42	0.0370	16.8
CO-290	388	693.02	390	692.34	257.6	0.003	12.0	0.013	2.20	0.4717	51.2
CO-291	102	609.00	101	608.00	117.7	0.008	8.0	0.013	1.68	0.0370	16.3
CO-292	389	710.00	388	693.02	1,344.6	0.013	8.0	0.013	1.83	0.0308	40.3
CO-293	101	608.00	100	607.00	152.9	0.007	8.0	0.013	1.53	0.0370	19.8
CO-294	100	607.00	99	604.00	533.6	0.006	8.0	0.013	1.75	0.0695	24.3
CO-295	99	604.00	98	600.83	341.8	0.009	8.0	0.013	2.24	0.0889	30.4
CO-296	390	692.34	387	692.22	161.6	0.001	12.0	0.013	1.36	0.4717	47.0
CO-297	98	600.83	97	600.00	397.2	0.002	8.0	0.013	1.34	0.0959	31.5
CO-298	391	695.51	388	693.02	1,082.9	0.002	12.0	0.013	2.05	0.4409	43.9
CO-299	97	600.00	96	597.00	421.0	0.007	8.0	0.013	2.14	0.1047	28.3
CO-300	392	696.28	391	695.51	286.3	0.003	12.0	0.013	2.14	0.4136	42.3
CO-301	96	597.00	95	592.25	458.7	0.010	8.0	0.013	2.50	0.1144	27.3

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CO-302	393	696.97	392	696.28	250.7	0.003	12.0	0.013	2.13	0.3942	40.0
CO-303	95	592.25	Meadowlands LS	575.00	518.3	0.033	8.0	0.013	3.78	0.1144	24.1
CO-304	394	697.75	393	696.97	281.7	0.003	12.0	0.013	2.11	0.3749	38.7
CO-305	106	619.36	94	614.07	439.9	0.012	6.0	0.013	1.59	0.0185	17.9
CO-306	395	700.29	394	697.75	850.9	0.003	10.0	0.013	1.69	0.1461	37.6
CO-307	94	614.07	100	607.00	458.6	0.015	6.0	0.013	1.92	0.0255	25.2
CO-308	396	702.14	395	700.29	698.9	0.003	10.0	0.013	1.34	0.0766	25.7
CO-309	397	702.95	396	702.14	269.9	0.003	10.0	0.013	1.34	0.0651	20.7
CO-310	93	617.16	99	604.00	836.4	0.016	6.0	0.013	1.68	0.0158	24.6
CO-311	92	615.00	91	604.57	476.8	0.022	6.0	0.013	1.43	0.0062	10.7
CO-312	398	731.00	397	702.95	849.2	0.033	8.0	0.013	2.36	0.0238	18.7
CO-313	91	604.57	96	597.00	216.8	0.035	6.0	0.013	1.92	0.0097	25.2
CO-314	90	635.00	89	634.00	343.2	0.003	8.0	0.013	1.81	0.1849	41.7
CO-315	399	707.85	395	700.29	435.5	0.017	8.0	0.013	2.60	0.0695	29.6
CO-316	89	634.00	88	630.05	411.2	0.010	8.0	0.013	2.80	0.1849	35.3
CO-317	88	630.05	87	625.84	523.1	0.008	8.0	0.013	2.62	0.1849	36.1
CO-318	400	709.00	399	707.85	271.3	0.004	8.0	0.013	1.58	0.0695	23.7
CO-319	87	625.84	189	620.00	375.6	0.016	8.0	0.013	3.32	0.1849	68.3
CO-320	86	669.00	179	665.00	760.4	0.005	6.0	0.013	0.73	0.0036	31.5
CO-321	85	675.00	177	668.00	890.7	0.008	8.0	0.013	2.67	0.2051	40.3
CO-322	401	723.00	394	697.75	1,998.2	0.013	8.0	0.013	3.22	0.2182	48.9
CO-323	84	682.00	85	675.00	564.1	0.012	8.0	0.013	3.09	0.1910	38.5
CO-324	402	741.00	401	723.00	1,418.8	0.013	8.0	0.013	2.46	0.0845	32.6
CO-325	83	686.00	84	682.00	209.2	0.019	8.0	0.013	2.57	0.0598	29.3
CO-326	403	744.00	402	741.00	790.9	0.004	8.0	0.013	1.27	0.0378	21.9
CO-327	82	686.50	83	686.00	151.9	0.003	8.0	0.013	1.36	0.0572	22.5
CO-328	404	755.00	403	744.00	836.8	0.013	8.0	0.013	1.61	0.0194	15.3
CO-329	81	687.00	82	686.50	133.5	0.004	8.0	0.013	1.39	0.0519	23.2
CO-330	405	753.00	403	744.00	588.3	0.015	8.0	0.013	1.66	0.0185	15.2

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CO-331	80	688.00	83	686.00	320.5	0.006	8.0	0.013	0.67	0.0026	12.8
CO-332	406	732.00	401	723.00	1,155.9	0.008	8.0	0.013	2.36	0.1338	35.9
CO-333	407	736.00	406	732.00	664.2	0.006	8.0	0.013	2.02	0.1056	29.8
CO-334	78	661.50	79	659.00	324.9	0.008	8.0	0.013	2.26	0.1153	29.5
CO-335	408	737.00	407	736.00	270.9	0.004	8.0	0.013	1.44	0.0598	26.1
CO-336	77	662.00	78	661.50	50.3	0.010	8.0	0.013	2.44	0.1100	28.7
CO-337	409	757.00	408	737.00	1,140.8	0.018	8.0	0.013	2.12	0.0343	19.8
CO-338	76	665.00	77	662.00	485.5	0.006	8.0	0.013	1.54	0.0405	22.9
CO-339	410	755.00	408	737.00	1,141.4	0.016	8.0	0.013	1.86	0.0255	18.7
CO-340	75	669.00	76	665.00	475.3	0.008	8.0	0.013	1.63	0.0343	16.5
CO-341	411	740.00	397	702.95	1,072.5	0.035	8.0	0.013	2.83	0.0414	20.8
CO-342	74	672.00	75	669.00	401.4	0.007	8.0	0.013	1.46	0.0273	14.8
CO-346	413	711.00	394	697.75	639.1	0.021	8.0	0.013	1.56	0.0106	32.9
CO-347	414	705.00	393	696.97	610.2	0.013	8.0	0.013	1.61	0.0194	35.3
CO-348	415	702.50	392	696.28	607.9	0.010	8.0	0.013	1.47	0.0194	36.3
CO-349	73	698.00	72	696.00	255.4	0.008	6.0	0.013	0.83	0.0035	9.6
CO-350	416	715.47	4	703.96	1,151.0	0.010	8.0	0.013	1.77	0.0370	17.8
CO-351	72	696.00	71	682.00	576.3	0.024	6.0	0.013	1.68	0.0097	13.9
CO-352	417	712.02	3	700.75	1,127.0	0.010	8.0	0.013	1.73	0.0334	17.9
CO-353	71	682.00	70	674.00	390.1	0.021	8.0	0.013	1.89	0.0202	13.3
CO-354	422	639.60	203	639.30	133.7	0.002	8.0	0.013	0.42	0.0018	67.0
CO-355	70	674.00	69	672.22	263.7	0.007	8.0	0.013	1.45	0.0299	17.8
CO-356	423	643.00	424	625.81	1,116.5	0.015	8.0	0.013	2.83	0.1080	47.1
CO-357	205	613.90	425	612.00	43.1	0.044	8.0	0.013	4.23	0.1188	23.9
CO-358	426	606.67	427	605.83	294.4	0.003	30.0	0.013	3.43	2.6656	29.4
CO-359	427	605.83	428	604.98	300.8	0.003	30.0	0.013	3.41	2.6656	28.2
CO-360	68	691.50	69	672.22	1,223.9	0.016	6.0	0.013	1.73	0.0176	22.0
CO-361	428	604.98	429	604.14	212.1	0.004	30.0	0.013	3.85	2.6656	30.0
CO-362	429	604.14	430	603.75	203.9	0.002	30.0	0.013	2.97	2.6656	35.4
CO-363	67	686.00	66	671.00	1,226.7	0.012	6.0	0.013	1.59	0.0176	23.0

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-364	430	603.75	431	603.57	84.1	0.002	30.0	0.013	3.30	3.3728	39.4
CO-365	431	603.57	432	603.16	317.5	0.001	30.0	0.013	2.74	3.3728	40.8
CO-366	69	672.22	66	671.00	273.5	0.004	8.0	0.013	1.46	0.0502	21.7
CO-367	66	671.00	77	662.00	275.9	0.033	8.0	0.013	3.24	0.0695	25.4
CO-368	432	603.16	433	602.41	556.6	0.001	30.0	0.013	2.79	3.3728	35.4
CO-369	433	602.41	Justin Treatment Plant	596.00	189.0	0.034	30.0	0.013	8.83	3.3728	24.0
CO-370	65	684.00	208	681.50	426.9	0.006	8.0	0.013	1.34	0.0273	17.4
CO-372(1)	438	670.33	460	664.17	1,000.5	0.006	21.0	0.013	3.06	0.6204	19.4
CO-372(2)	460	664.17	435	635.85	4,596.4	0.006	21.0	0.013	3.07	0.6204	19.4
CO-373	64	686.50	65	684.00	448.6	0.006	8.0	0.013	1.14	0.0167	13.1
CO-374	435	635.85	436	628.55	1,213.7	0.006	30.0	0.013	2.90	0.6204	13.7
CO-375	63	691.00	64	686.50	258.3	0.017	8.0	0.013	1.20	0.0053	8.9
CO-376	436	628.55	437	627.00	630.3	0.002	30.0	0.013	2.12	0.6204	13.7
CO-377	62	688.00	64	686.50	95.2	0.016	8.0	0.013	0.82	0.0018	7.6
CO-378(1)	437	627.00	473	626.31	134.1	0.005	30.0	0.013	2.75	0.6204	12.5
CO-378(2)	473	626.31	323	619.50	1,317.2	0.005	30.0	0.013	2.75	0.6204	18.6
CO-379	61	691.00	60	686.00	484.7	0.010	8.0	0.013	1.24	0.0106	10.2
CO-380	240	702.58	337	706.45	884.6	0.004	8.0	0.013	1.74	0.0950	30.6
CO-381	60	686.00	59	683.50	313.1	0.008	8.0	0.013	1.35	0.0194	12.1
CO-382	280	606.77	Timberbrooks LS	606.50	58.8	0.005	12.0	0.013	3.34	1.1106	59.1
CO-383	59	683.50	208	681.50	258.1	0.008	8.0	0.013	1.39	0.0220	16.3
CO-384	439	682.54	441	675.45	178.5	0.040	15.0	0.013	6.15	0.6204	24.6
CO-385	441	675.45	438	670.33	345.8	0.015	15.0	0.013	4.34	0.6204	27.2
CO-386	58	689.97	60	686.00	174.0	0.023	8.0	0.013	0.94	0.0018	7.6
CO-387	440	686.12	439	682.54	300.9	0.012	15.0	0.013	4.02	0.6204	27.9
CO-388	57	681.00	56	668.31	413.5	0.031	8.0	0.013	1.83	0.0114	7.7
CO-390	56	668.31	55	665.37	237.4	0.012	8.0	0.013	1.35	0.0114	10.8

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-392	54	678.00	55	665.37	306.6	0.041	8.0	0.013	1.88	0.0088	10.3
CO-394	53	677.22	52	666.26	424.4	0.026	8.0	0.013	1.76	0.0123	10.1
CO-396	51	672.00	52	666.26	215.7	0.027	8.0	0.013	1.14	0.0026	7.6
CO-398	50	681.00	49	674.00	385.5	0.018	8.0	0.013	1.49	0.0106	9.3
CO-401	49	674.00	225	669.14	252.1	0.019	8.0	0.013	1.68	0.0141	22.9
CO-408	47	676.59	46	659.46	1,248.2	0.014	8.0	0.013	1.91	0.0326	19.3
CO-410	48	677.33	45	651.86	997.6	0.026	8.0	0.013	2.01	0.0185	18.2
CO-413	46	659.46	344	670.00	702.0	0.015	8.0	0.013	1.75	0.0220	17.9
CO-414	343	670.00	45	651.86	985.0	0.018	8.0	0.013	1.92	0.0238	18.9
CO-416	44	629.32	204	627.53	373.1	0.005	8.0	0.013	2.24	0.2086	41.3
CO-418	45	651.86	43	630.25	914.1	0.024	8.0	0.013	3.08	0.0854	33.8
CO-420	43	630.25	44	629.32	188.0	0.005	8.0	0.013	2.27	0.2086	42.9
CO-422	52	666.26	42	647.00	256.6	0.075	8.0	0.013	2.81	0.0167	8.6
CO-424	42	647.00	41	639.00	365.7	0.022	8.0	0.013	1.84	0.0167	17.5
CO-426	312	645.00	40	641.95	208.3	0.015	8.0	0.013	2.02	0.0361	14.7
CO-428	40	641.95	39	622.00	373.0	0.053	8.0	0.013	3.17	0.0361	22.8
CO-430	39	622.00	205	613.90	413.0	0.020	8.0	0.013	3.18	0.1188	25.9
CO-431	38	621.00	93	617.16	148.3	0.026	6.0	0.013	1.15	0.0026	10.7
CO-432	37	621.00	106	619.36	208.5	0.008	6.0	0.013	0.68	0.0018	10.9
CO-433	36	624.00	108	614.00	405.8	0.025	6.0	0.013	1.60	0.0079	17.8
CO-434	35	624.00	106	619.36	483.3	0.010	6.0	0.013	1.18	0.0088	13.9
CO-435	34	626.99	112	615.01	303.4	0.039	12.0	0.013	1.64	0.0070	5.5
CO-436	33	662.09	183	649.00	1,015.0	0.013	6.0	0.013	1.45	0.0123	39.3
CO-437	32	669.74	182	650.00	1,097.2	0.018	6.0	0.013	1.76	0.0158	47.1
CO-438	31	649.81	171	646.05	291.6	0.013	6.0	0.013	0.99	0.0035	10.7
CO-439	30	641.00	172	639.48	265.3	0.006	6.0	0.013	0.76	0.0036	12.6
CO-440	29	658.29	28	638.00	776.5	0.026	6.0	0.013	1.58	0.0071	10.7
CO-441	28	638.00	27	637.33	55.4	0.012	6.0	0.013	1.28	0.0089	10.8
CO-442	27	637.33	167	629.20	165.0	0.049	6.0	0.013	2.09	0.0089	55.7
CO-443	26	656.00	185	645.00	726.4	0.015	6.0	0.013	1.57	0.0132	38.5

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Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-444	25	639.27	173	626.80	539.7	0.023	6.0	0.010	1.94	0.0088	55.6
CO-445	24	633.00	131	628.00	139.7	0.036	8.0	0.013	1.11	0.0018	17.2
CO-446	23	632.98	129	630.50	282.6	0.009	8.0	0.013	0.68	0.0018	14.6
CO-447	160	635.27	12th Street LS (Downtown)	622.00	328.5	0.040	8.0	0.013	3.39	0.0626	17.4
CO-448(1)	22	651.05	477	648.99	743.5	0.003	10.0	0.013	1.27	0.0600	19.2
CO-448(2)	477	648.99	292	647.93	381.5	0.003	10.0	0.013	1.27	0.0600	25.9
CO-449	21	641.91	358	641.44	147.6	0.003	12.0	0.013	2.90	1.1836	79.5
CO-450	358	641.44	202	640.44	347.3	0.003	12.0	0.013	2.77	1.2461	76.9
CO-452	20	696.00	19	693.50	751.8	0.003	8.0	0.013	0.59	0.0035	5.6
CO-453	19	693.50	18	688.75	321.3	0.015	8.0	0.013	1.00	0.0035	12.6
CO-454	17	660.12	359	651.40	1,003.1	0.009	8.0	0.013	2.58	0.1584	36.2
CO-455	359	651.40	202	640.44	551.3	0.020	8.0	0.013	3.68	0.1945	69.0
CO-456	18	688.75	81	687.00	325.0	0.005	8.0	0.013	1.58	0.0519	21.3
CO-462	320	648.58	21	641.91	866.7	0.008	12.0	0.013	4.14	1.1836	66.9
CO-464	14	677.74	285	665.28	1,010.6	0.012	8.0	0.013	1.46	0.0150	12.5
CO-465	79	659.00	12th Street LS (Private)	645.00	403.8	0.035	8.0	0.013	3.92	0.1223	24.8
CO-466	13	636.61	12	626.00	1,177.1	0.009	8.0	0.013	0.85	0.0036	6.1
CO-467	12	626.00	114	623.31	227.5	0.012	8.0	0.013	1.14	0.0072	10.5
CO-468	11	635.83	12	626.00	1,238.6	0.008	8.0	0.013	0.81	0.0036	6.2
CO-469	10	611.22	9	600.00	731.6	0.015	10.0	0.013	1.76	0.0240	9.0
CO-470	9	600.00	8	597.00	587.0	0.005	18.0	0.013	1.10	0.0240	23.0
CO-471	8	597.00	Justin Treatment Plant	596.00	132.8	0.008	24.0	0.013	4.55	1.9873	28.7
CO-474	425	609.57	426	606.67	473.4	0.006	30.0	0.013	4.36	2.3901	27.3
CO-475	189	620.00	8	597.00	298.0	0.077	18.0	0.013	10.69	1.9633	33.0
CO-476	7	694.00	6	692.50	512.8	0.003	8.0	0.013	1.73	0.1566	41.5

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-477	6	692.50	5	689.00	1,067.3	0.003	8.0	0.013	1.81	0.1566	43.9
CO-478	4	703.96	1	698.09	835.9	0.007	8.0	0.013	1.74	0.0519	24.6
CO-479	5	689.00	2	688.00	386.2	0.003	8.0	0.013	1.71	0.1778	45.4
CO-480	2	688.00	336	677.25	291.3	0.037	8.0	0.013	4.96	0.2543	35.8
CO-481	3	700.75	1	698.09	564.1	0.005	8.0	0.013	1.47	0.0484	25.1
CO-482	381	694.75	353	694.00	162.1	0.005	8.0	0.013	2.33	0.2561	59.0

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Exisitng Infrastructure Upgrades
FlexTable: Outfall Table

Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Flow (Total Out) (MGD)
Meadowlands LS	600.74	575.00	0.1849
12th Street LS (Private)	666.05	645.00	0.1223
12th Street LS (Downtown)	637.00	622.00	0.1579
Timberbrooks LS	626.50	606.50	1.1106
Justin Treatment Plant	616.27	596.00	5.3601

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
1	710.15	698.09	0.0000	0.0251	0.0251
2	697.00	688.00	0.0000	0.0636	0.0636
3	713.23	700.75	0.0037	0.0084	0.0121
4	715.75	703.96	0.0037	0.0092	0.0130
5	699.00	689.00	0.0000	0.0444	0.0444
6	701.00	692.50	0.0000	0.0392	0.0392
7	701.00	694.00	0.0000	0.0392	0.0392
8	616.65	597.00	0.0000	2.0286	2.0286
9	624.36	600.00	0.0000	0.0060	0.0060
10	615.22	611.22	0.0060	0.0000	0.0060
11	639.83	635.83	0.0009	0.0000	0.0009
12	630.00	626.00	0.0000	0.0018	0.0018
13	640.61	636.61	0.0009	0.0000	0.0009
14	684.46	677.74	0.0037	0.0000	0.0037
15	665.40	656.95	0.0020	0.3324	0.3344
16	690.00	683.00	0.0411	0.0000	0.0411
17	672.00	660.12	0.0068	0.0328	0.0396
18	695.45	688.75	0.0121	0.0818	0.0939
19	700.00	693.50	0.0000	0.0818	0.0818
20	702.00	696.00	0.0818	0.0000	0.0818
21	655.88	641.91	0.0000	0.3689	0.3689
22	671.67	651.05	0.0000	0.1497	0.1497
23	636.98	632.98	0.0004	0.0000	0.0004
24	637.85	633.00	0.0004	0.0000	0.0004
25	643.27	639.27	0.0022	0.0000	0.0022
26	663.00	656.00	0.0033	0.0000	0.0033
27	641.33	637.33	0.0000	0.0022	0.0022
28	642.00	638.00	0.0004	0.0018	0.0022
29	662.29	658.29	0.0018	0.0000	0.0018
30	645.00	641.00	0.0009	0.0000	0.0009
31	653.81	649.81	0.0009	0.0000	0.0009
32	681.00	669.74	0.0040	0.0000	0.0040
33	673.00	662.09	0.0031	0.0000	0.0031
34	630.99	626.99	0.0018	0.0000	0.0018
35	628.00	624.00	0.0022	0.0000	0.0022
36	628.00	624.00	0.0020	0.0000	0.0020
37	625.00	621.00	0.0004	0.0000	0.0004
38	625.00	621.00	0.0007	0.0000	0.0007
39	626.00	622.00	0.0004	0.0293	0.0297
40	645.95	641.95	0.0000	0.0090	0.0090
41	646.00	639.00	0.0022	0.0180	0.0202
42	654.00	647.00	0.0000	0.0042	0.0042
43	639.22	630.25	0.0000	0.0521	0.0521
44	635.02	629.32	0.0000	0.0521	0.0521
45	664.58	651.86	0.0051	0.0163	0.0213
46	671.94	659.46	0.0051	0.0136	0.0187

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
47	683.37	676.59	0.0081	0.0000	0.0081
48	683.31	677.33	0.0046	0.0000	0.0046
49	680.62	674.00	0.0009	0.0026	0.0035
50	685.00	681.00	0.0026	0.0000	0.0026
51	679.25	672.00	0.0007	0.0000	0.0007
52	670.26	666.26	0.0004	0.0037	0.0042
53	681.22	677.22	0.0031	0.0000	0.0031
54	682.00	678.00	0.0022	0.0000	0.0022
55	669.37	665.37	0.0007	0.0051	0.0057
56	672.31	668.31	0.0000	0.0029	0.0029
57	685.00	681.00	0.0029	0.0000	0.0029
58	693.97	689.97	0.0004	0.0000	0.0004
59	692.00	683.50	0.0007	0.0048	0.0055
60	693.50	686.00	0.0018	0.0031	0.0048
61	695.00	691.00	0.0026	0.0000	0.0026
62	692.00	688.00	0.0004	0.0000	0.0004
63	695.00	691.00	0.0013	0.0000	0.0013
64	693.29	686.50	0.0024	0.0018	0.0042
65	691.97	684.00	0.0026	0.0042	0.0068
66	675.00	671.00	0.0004	0.0169	0.0174
67	689.00	686.00	0.0044	0.0000	0.0044
68	695.50	691.50	0.0044	0.0000	0.0044
69	676.19	672.22	0.0007	0.0119	0.0125
70	678.00	674.00	0.0024	0.0051	0.0075
71	686.09	682.00	0.0026	0.0024	0.0051
72	700.00	696.00	0.0015	0.0009	0.0024
73	702.00	698.00	0.0009	0.0000	0.0009
74	681.64	672.00	0.0068	0.0000	0.0068
75	684.00	669.00	0.0018	0.0068	0.0086
76	680.71	665.00	0.0015	0.0086	0.0101
77	673.00	662.00	0.0000	0.0275	0.0275
78	673.00	661.50	0.0013	0.0275	0.0288
79	670.00	659.00	0.0018	0.0288	0.0306
80	692.64	688.00	0.0007	0.0000	0.0007
81	697.00	687.00	0.0000	0.0939	0.0939
82	696.89	686.50	0.0013	0.0939	0.0952
83	695.07	686.00	0.0000	0.0959	0.0959
84	692.67	682.00	0.1245	0.0959	0.2204
85	686.04	675.00	0.0035	0.2204	0.2239
86	676.00	669.00	0.0009	0.0000	0.0009
87	629.75	625.84	0.0000	0.1849	0.1849
88	634.05	630.05	0.0000	0.1849	0.1849
89	638.00	634.00	0.0000	0.1849	0.1849
90	639.00	635.00	0.1849	0.0000	0.1849
91	608.57	604.57	0.0009	0.0015	0.0024
92	619.26	615.00	0.0015	0.0000	0.0015

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
93	621.16	617.16	0.0033	0.0007	0.0040
94	618.07	614.07	0.0018	0.0046	0.0064
95	596.25	592.25	0.0000	0.0286	0.0286
96	604.14	597.00	0.0000	0.0286	0.0286
97	604.00	600.00	0.0022	0.0240	0.0262
98	604.83	600.83	0.0018	0.0222	0.0240
99	615.32	604.00	0.0009	0.0213	0.0222
100	613.82	607.00	0.0018	0.0156	0.0174
101	613.00	608.00	0.0000	0.0092	0.0092
102	612.36	609.00	0.0000	0.0092	0.0092
103	617.60	615.00	0.0062	0.0031	0.0092
104	623.40	617.00	0.0009	0.0022	0.0031
105	630.59	622.00	0.0022	0.0000	0.0022
106	623.36	619.36	0.0020	0.0026	0.0046
107	618.58	614.58	0.0018	0.0000	0.0018
108	618.00	614.00	0.0004	0.0099	0.0104
109	608.00	604.00	0.0000	0.0176	0.0176
110	612.70	608.70	0.0000	0.0176	0.0176
111	615.01	611.01	0.0024	0.0031	0.0055
112	619.01	615.01	0.0013	0.0018	0.0031
113	632.33	628.33	0.0024	0.0000	0.0024
114	627.31	623.31	0.0011	0.0042	0.0053
115	625.81	621.81	0.0018	0.0053	0.0071
116	622.45	618.45	0.0004	0.0075	0.0080
117	630.32	626.32	0.0000	0.0004	0.0004
118	631.79	627.79	0.0004	0.0000	0.0004
119	636.30	634.00	0.0018	0.0000	0.0018
120	639.00	635.00	0.0013	0.0000	0.0013
121	638.41	635.41	0.0004	0.0000	0.0004
122	638.00	635.00	0.0004	0.0000	0.0004
123	639.37	635.37	0.0022	0.0000	0.0022
124	637.33	634.50	0.0018	0.0000	0.0018
125	639.71	634.00	0.0009	0.0018	0.0027
126	640.00	633.00	0.0000	0.0067	0.0067
127	638.00	632.00	0.0000	0.0076	0.0076
128	638.00	631.00	0.0000	0.0090	0.0090
129	639.00	630.50	0.0049	0.0094	0.0143
130	638.52	629.50	0.0000	0.0143	0.0143
131	638.93	628.00	0.0000	0.0148	0.0148
132	631.15	627.15	0.0000	0.0148	0.0148
133	648.00	644.00	0.0000	0.0090	0.0090
134	657.27	653.27	0.0075	0.0015	0.0090
135	683.62	679.62	0.0015	0.0000	0.0015
136	688.94	684.94	0.0022	0.0000	0.0022
137	684.00	680.00	0.0020	0.0022	0.0042
138	673.70	669.70	0.0013	0.0042	0.0055

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Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
139	665.44	661.44	0.0033	0.0055	0.0088
140	647.95	643.95	0.0004	0.0088	0.0092
141	649.63	645.63	0.0020	0.0044	0.0064
142	655.77	651.77	0.0009	0.0035	0.0044
143	666.41	662.41	0.0020	0.0015	0.0035
144	676.16	672.16	0.0015	0.0000	0.0015
145	650.00	646.00	0.0029	0.0066	0.0095
146	654.80	650.80	0.0015	0.0051	0.0066
147	663.89	659.89	0.0020	0.0031	0.0051
148	684.50	680.50	0.0031	0.0000	0.0031
149	659.42	655.42	0.0031	0.0053	0.0084
150	682.72	678.72	0.0053	0.0000	0.0053
151	679.20	675.20	0.0044	0.0000	0.0044
152	680.00	676.00	0.0024	0.0000	0.0024
153	642.65	631.50	0.0009	1.4128	1.4137
154	667.28	663.28	0.0040	0.0073	0.0113
155	671.41	667.41	0.0000	0.0029	0.0029
156	678.17	674.17	0.0000	0.0029	0.0029
157	678.92	674.92	0.0004	0.0000	0.0004
158	642.00	630.50	0.0009	1.4177	1.4186
159	674.11	670.11	0.0040	0.0000	0.0040
160	639.27	635.27	0.0000	0.0157	0.0157
161	641.92	636.92	0.0000	0.0064	0.0064
162	644.00	634.50	1.3827	0.0095	1.3923
163	643.00	633.00	0.0009	1.4007	1.4016
164	641.74	631.00	0.0000	1.4137	1.4137
165	643.00	630.00	0.0000	1.4186	1.4186
166	641.00	629.50	0.0000	1.4186	1.4186
167	640.87	629.20	0.0004	1.4208	1.4212
168	639.51	628.50	0.0000	1.4263	1.4263
169	669.64	665.64	0.0018	0.0000	0.0018
170	657.00	653.00	0.0004	0.0018	0.0022
171	650.05	646.05	0.0004	0.0031	0.0035
172	643.48	639.48	0.0007	0.0044	0.0051
173	638.23	626.80	0.0000	1.4285	1.4285
174	657.00	645.64	0.0029	0.0000	0.0029
175	689.00	679.19	0.0029	0.0000	0.0029
176	676.00	669.00	0.0002	0.1590	0.1592
177	675.00	668.00	0.0000	0.3831	0.3831
178	675.00	666.00	0.0000	0.3831	0.3831
179	675.00	665.00	0.0013	0.3840	0.3854
180	668.00	661.00	0.0031	0.3854	0.3884
181	657.50	652.00	0.0004	0.3884	0.3889
182	656.00	650.00	0.0011	0.3928	0.3939
183	656.00	649.00	0.0002	0.3970	0.3972
184	655.00	648.00	0.0007	0.3972	0.3979

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
185	655.00	645.00	0.0015	0.4012	0.4027
186	650.00	640.10	0.0013	0.4056	0.4069
187	636.81	625.80	0.0009	0.4069	0.4078
188	634.90	625.00	0.0000	1.8363	1.8363
189	630.12	620.00	0.0000	2.0226	2.0226
190	633.16	624.00	0.0013	1.8363	1.8377
191	642.00	630.32	0.0057	0.0000	0.0057
192	639.34	635.34	0.0055	0.0000	0.0055
193	661.00	650.50	0.0128	0.0000	0.0128
194	663.00	656.00	0.0145	0.0000	0.0145
195	652.00	645.00	0.0057	0.0273	0.0330
196	660.00	653.00	0.0092	0.0000	0.0092
197	643.00	631.95	0.0009	0.0092	0.0101
198	641.00	630.48	0.0002	0.0431	0.0433
199	640.00	629.51	0.0000	0.0488	0.0488
200	640.00	629.00	0.0090	0.0488	0.0579
201	640.00	628.50	0.0009	0.0636	0.0645
202	657.86	640.44	0.0000	0.4331	0.4331
203	651.68	639.30	0.0000	0.4336	0.4336
204	635.35	627.53	0.0000	0.0521	0.0521
205	627.03	613.90	0.0000	0.0297	0.0297
206	642.00	630.70	0.0044	0.0000	0.0044
207	637.00	626.60	0.0000	0.0689	0.0689
208	692.00	681.50	0.0011	0.0123	0.0134
209	691.63	687.63	0.0009	0.0000	0.0009
210	692.87	688.87	0.0009	0.0000	0.0009
211	692.00	686.00	0.0013	0.0018	0.0031
212	688.97	680.00	0.0009	0.0165	0.0174
213	682.39	678.39	0.0007	0.0174	0.0180
214	678.00	673.10	0.0009	0.0180	0.0189
215	694.00	690.00	0.0037	0.0000	0.0037
216	684.36	672.00	0.0009	0.0227	0.0235
217	691.85	687.85	0.0044	0.0000	0.0044
218	685.00	670.90	0.0009	0.0279	0.0288
219	693.50	689.42	0.0004	0.0000	0.0004
220	692.65	688.63	0.0018	0.0004	0.0022
221	687.02	683.02	0.0007	0.0022	0.0029
222	680.80	676.80	0.0011	0.0029	0.0040
223	688.76	684.76	0.0042	0.0000	0.0042
224	681.00	669.80	0.0004	0.0330	0.0334
225	678.34	669.14	0.0002	0.0370	0.0372
226	675.00	668.49	0.0002	0.0411	0.0414
227	675.00	668.10	0.0000	0.0414	0.0414
228	667.43	663.43	0.0000	0.0414	0.0414
229	660.66	656.66	0.0000	0.0414	0.0414
230	652.07	648.07	0.0000	0.0954	0.0954

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Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
231	617.00	613.00	0.0000	0.3323	0.3323
232	623.02	619.02	0.0000	0.3323	0.3323
233	634.54	630.54	0.0004	0.3044	0.3048
234	642.74	633.00	0.0004	0.3040	0.3044
235	645.01	634.00	0.0013	0.3026	0.3040
236	646.60	637.50	0.0000	0.3026	0.3026
237	646.27	637.60	0.0000	0.3026	0.3026
238	649.49	645.49	0.0013	0.2059	0.2072
239	654.00	647.00	0.0004	0.2055	0.2059
240	715.79	702.58	0.0051	0.0238	0.0288
241	713.78	701.32	0.0077	0.0288	0.0365
242	707.86	697.69	0.0000	0.0528	0.0528
243	708.74	696.43	0.0064	0.0528	0.0592
244	709.51	694.41	0.0092	0.0592	0.0684
245	697.57	685.41	0.0007	0.0737	0.0744
246	702.25	695.20	0.0053	0.0000	0.0053
247	699.14	684.09	0.0009	0.0836	0.0845
248	693.35	682.77	0.0009	0.0975	0.0983
249	683.16	672.11	0.0004	0.1005	0.1010
250	668.43	660.38	0.0015	0.1043	0.1058
251	690.59	684.04	0.0033	0.0000	0.0033
252	656.00	647.39	0.0000	0.1846	0.1846
253	652.94	646.89	0.0000	0.1846	0.1846
254	628.48	619.55	0.0009	0.2191	0.2200
255	634.67	627.08	0.0040	0.0000	0.0040
256	651.29	640.84	0.0018	0.0275	0.0293
257	679.35	670.87	0.0051	0.0000	0.0051
258	659.57	648.16	0.0011	0.0213	0.0224
259	661.88	652.60	0.0024	0.0097	0.0121
260	685.49	673.84	0.0055	0.0042	0.0097
261	702.55	696.00	0.0042	0.0000	0.0042
262	684.59	677.53	0.0092	0.0000	0.0092
263	666.17	658.54	0.0033	0.0068	0.0101
264	642.59	634.66	0.0009	0.0134	0.0143
265	671.57	665.52	0.0033	0.0000	0.0033
266	638.66	628.22	0.0018	0.0211	0.0229
267	653.78	643.95	0.0020	0.0048	0.0068
268	654.48	647.43	0.0048	0.0000	0.0048
269	653.36	646.31	0.0035	0.0000	0.0035
270	626.58	617.80	0.0026	0.2350	0.2376
271	661.10	652.34	0.0103	0.0000	0.0103
272	627.49	618.69	0.0011	0.2303	0.2314
273	632.66	615.97	0.0029	0.2411	0.2440
274	646.22	640.17	0.0035	0.0000	0.0035
275	626.83	614.51	0.0009	0.2669	0.2677
276	626.86	613.48	0.0040	0.2702	0.2741

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Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
277	623.97	610.89	0.0000	0.2776	0.2776
278	628.22	622.17	0.0035	0.0000	0.0035
279	629.72	623.67	0.0024	0.0000	0.0024
280	624.65	606.77	0.0000	0.3906	0.3906
281	621.00	607.50	0.0000	0.0434	0.0434
282	680.94	673.59	0.0022	0.0000	0.0022
283	713.91	705.91	0.0092	0.0000	0.0092
284	709.71	699.50	0.0163	0.0000	0.0163
285	676.69	665.28	0.0000	0.0059	0.0059
286	684.35	677.74	0.0169	0.0000	0.0169
287	686.89	679.40	0.0022	0.0000	0.0022
288	681.88	675.31	0.0055	0.0000	0.0055
289	674.27	661.54	0.0000	0.0158	0.0158
290	680.15	662.79	0.0022	0.0081	0.0103
291	678.42	664.04	0.0022	0.0059	0.0081
292	657.93	647.93	0.0000	0.2055	0.2055
293	688.12	680.00	0.0051	0.0000	0.0051
294	685.74	675.28	0.0011	0.0079	0.0090
295	686.10	677.87	0.0029	0.0000	0.0029
296	686.35	674.16	0.0009	0.0106	0.0114
297	686.50	679.94	0.0015	0.0000	0.0015
298	687.19	673.27	0.0011	0.0123	0.0134
299	687.72	680.79	0.0009	0.0000	0.0009
300	683.66	672.05	0.0051	0.0167	0.0218
301	689.48	683.51	0.0033	0.0000	0.0033
302	674.98	667.28	0.0000	0.0350	0.0350
303	688.39	683.19	0.0057	0.0000	0.0057
304	690.09	684.74	0.0075	0.0000	0.0075
305	692.12	678.88	0.0000	0.2945	0.2945
306	677.34	663.81	0.0035	0.3071	0.3106
307	673.34	665.85	0.0079	0.0139	0.0218
308	685.55	677.81	0.0048	0.0000	0.0048
309	683.15	668.86	0.0090	0.0000	0.0090
310	672.84	665.47	0.0022	0.0000	0.0022
311	673.46	666.46	0.0139	0.0000	0.0139
312	652.00	645.00	0.0090	0.0000	0.0090
313	655.00	649.00	0.0000	0.0540	0.0540
314	660.00	656.00	0.0000	0.0405	0.0405
315	665.00	658.50	0.0000	0.0270	0.0270
316	671.00	664.00	0.0135	0.0000	0.0135
317	677.00	670.00	0.0135	0.0000	0.0135
318	670.00	663.00	0.0135	0.0000	0.0135
319	673.00	667.00	0.0135	0.0000	0.0135
320	659.72	648.58	0.0018	0.3671	0.3689
321	652.90	639.66	0.0000	0.4331	0.4331
322	661.52	651.66	0.0000	0.0350	0.0350

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Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
323	642.14	619.50	0.0000	3.4641	3.4641
324	644.75	634.24	0.0121	0.0187	0.0308
325	669.84	662.79	0.0068	0.0000	0.0068
326	631.39	620.64	0.0013	0.0293	0.0306
327	667.06	660.05	0.0000	0.0788	0.0788
328	687.80	678.10	0.0020	0.0132	0.0152
329	703.09	695.12	0.0046	0.0086	0.0132
330	707.36	699.70	0.0040	0.0046	0.0086
331	712.25	705.20	0.0020	0.0026	0.0046
332	716.88	709.51	0.0026	0.0000	0.0026
333	715.72	708.81	0.0130	0.0000	0.0130
334	665.00	656.25	0.0000	0.0788	0.0788
335	663.00	657.00	0.0000	0.0788	0.0788
336	697.70	677.25	0.0000	0.0636	0.0636
337	714.42	706.45	0.0238	0.0000	0.0238
338	701.95	693.00	0.0055	0.0000	0.0055
339	698.12	683.00	0.0000	0.1036	0.1036
340	699.36	688.00	0.0000	0.0981	0.0981
341	692.05	679.33	0.0000	0.2945	0.2945
342	679.00	658.95	0.0150	0.1347	0.1497
343	676.08	670.00	0.0059	0.0000	0.0059
344	676.08	670.00	0.0055	0.0000	0.0055
345	635.35	614.98	0.0000	3.5162	3.5162
346	700.78	689.42	0.0000	0.0981	0.0981
347	710.14	698.78	0.0084	0.0000	0.0084
348	704.15	692.79	0.0024	0.0873	0.0898
349	709.01	697.65	0.0020	0.0163	0.0183
350	713.82	702.37	0.0000	0.0092	0.0092
351	719.97	708.52	0.0092	0.0000	0.0092
352	717.53	706.17	0.0070	0.0000	0.0070
353	710.67	694.00	0.0051	0.0640	0.0691
354	666.25	650.64	0.0015	0.3456	0.3471
355	675.60	665.60	0.0112	0.0000	0.0112
356	674.28	667.08	0.0200	0.0000	0.0200
357	676.69	669.69	0.0139	0.0000	0.0139
358	656.32	641.44	0.0018	0.3828	0.3845
359	660.14	651.40	0.0033	0.0453	0.0486
360	672.00	665.00	0.0057	0.0000	0.0057
361	685.85	675.46	0.0070	0.2978	0.3049
362	693.00	677.92	0.0033	0.2945	0.2978
363	722.00	715.00	0.0053	0.0000	0.0053
364	719.00	712.00	0.0042	0.0150	0.0191
365	721.00	714.00	0.0095	0.0055	0.0150
366	722.00	715.00	0.0007	0.0048	0.0055
367	733.00	726.00	0.0048	0.0000	0.0048
368	707.00	700.00	0.0022	0.0110	0.0132

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Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
369	725.00	718.00	0.0046	0.0000	0.0046
370	720.00	713.00	0.0064	0.0000	0.0064
371	713.00	700.00	0.0035	0.0224	0.0260
372	725.00	711.50	0.0009	0.0088	0.0097
373	733.00	723.00	0.0057	0.0000	0.0057
374	720.00	713.00	0.0031	0.0000	0.0031
375	735.00	728.00	0.0110	0.0000	0.0110
376	707.53	696.53	0.0000	0.0433	0.0433
377	713.51	706.51	0.0000	0.0134	0.0134
378	720.85	713.85	0.0051	0.0020	0.0070
379	721.15	714.15	0.0064	0.0000	0.0064
380	726.51	719.51	0.0020	0.0000	0.0020
381	710.66	694.75	0.0000	0.0640	0.0640
382	713.18	703.00	0.0000	0.0101	0.0101
383	726.54	719.54	0.0075	0.0000	0.0075
384	726.84	719.84	0.0073	0.0000	0.0073
385	700.22	685.81	0.0194	0.1716	0.1909
386	699.66	687.25	0.0000	0.1716	0.1716
387	698.53	688.61	0.0136	0.1240	0.1375
388	703.57	693.02	0.0000	0.1240	0.1240
389	716.39	710.00	0.0077	0.0000	0.0077
390	699.69	692.34	0.0000	0.1240	0.1240
391	704.97	695.51	0.0068	0.1094	0.1163
392	706.84	696.28	0.0000	0.1094	0.1094
393	708.51	696.97	0.0000	0.1046	0.1046
394	711.52	697.75	0.0000	0.0998	0.0998
395	718.37	700.29	0.0000	0.0365	0.0365
396	714.19	702.14	0.0029	0.0163	0.0191
397	715.00	702.95	0.0000	0.0163	0.0163
398	741.00	731.00	0.0059	0.0000	0.0059
399	716.82	707.85	0.0000	0.0174	0.0174
400	718.39	709.00	0.0174	0.0000	0.0174
401	730.00	723.00	0.0000	0.0606	0.0606
402	748.00	741.00	0.0117	0.0155	0.0272
403	751.00	744.00	0.0061	0.0095	0.0155
404	762.00	755.00	0.0048	0.0000	0.0048
405	760.00	753.00	0.0046	0.0000	0.0046
406	739.00	732.00	0.0070	0.0264	0.0334
407	744.00	736.00	0.0114	0.0150	0.0264
408	744.00	737.00	0.0000	0.0150	0.0150
409	764.00	757.00	0.0086	0.0000	0.0086
410	762.00	755.00	0.0064	0.0000	0.0064
411	748.00	740.00	0.0103	0.0000	0.0103
412	650.00	638.43	0.0000	0.0954	0.0954
413	715.92	711.00	0.0026	0.0000	0.0026
414	712.20	705.00	0.0048	0.0000	0.0048

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Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
415	709.79	702.50	0.0048	0.0000	0.0048
416	722.47	715.47	0.0092	0.0000	0.0092
417	719.02	712.02	0.0084	0.0000	0.0084
418	717.45	708.77	0.0033	0.0073	0.0106
419	720.47	707.83	0.0026	0.0075	0.0101
420	716.20	703.53	0.0048	0.0134	0.0183
421	710.00	703.00	0.0018	0.0110	0.0128
422	647.57	639.60	0.0004	0.0000	0.0004
423	650.00	643.00	0.0270	0.0000	0.0270
424	629.82	625.81	0.0004	0.3318	0.3323
425	625.31	609.57	0.0000	3.5459	3.5459
426	621.61	606.67	0.0000	3.6148	3.6148
427	619.19	605.83	0.0000	3.6148	3.6148
428	617.08	604.98	0.0000	3.6148	3.6148
429	617.43	604.14	0.0000	3.6148	3.6148
430	614.23	603.75	0.0000	3.9470	3.9470
431	613.00	603.57	0.0000	3.9470	3.9470
432	611.00	603.16	0.0000	3.9470	3.9470
433	611.23	602.41	0.0000	3.9470	3.9470
434	704.25	688.76	0.0508	1.0839	1.1347
435	657.20	635.85	0.0458	2.9725	3.0183
436	649.22	628.55	0.0000	3.0223	3.0223
437	642.58	627.00	0.0000	3.0223	3.0223
438	688.44	670.33	0.0000	1.3089	1.3089
439	696.60	682.54	0.0000	0.1551	0.1551
440	698.97	686.12	0.1551	0.0000	0.1551
441	691.08	675.45	0.0000	0.1551	0.1551
442	775.00	768.00	1.1930	0.0000	1.1930
443	720.00	713.00	0.1173	0.7248	0.8421
444	805.00	798.00	0.1430	0.0000	0.1430
445	740.00	733.00	0.3178	0.4070	0.7248
446	794.00	787.00	0.0101	0.0000	0.0101
447	777.00	770.00	0.0412	0.0439	0.0850
448	725.00	718.00	0.0150	0.0941	0.1091
449	796.00	791.00	0.1602	0.0000	0.1602
450	757.00	750.00	0.2640	0.0000	0.2640
451	695.00	688.00	0.6601	0.0000	0.6601
452	665.00	648.00	0.1897	0.6601	0.8498
453	735.00	728.00	0.1116	0.2817	0.3933
454	735.00	728.00	0.0941	0.0000	0.0941
455	765.00	758.00	0.1214	0.1602	0.2817
456	680.00	673.00	0.0600	1.3809	1.4409
457	680.00	673.00	0.0040	0.0000	0.0040
458	695.00	688.00	0.1029	0.0000	0.1029
459	615.00	610.50	0.0434	0.0000	0.0434
460	682.86	664.17	0.2226	1.3089	1.5316

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
461	710.00	703.00	0.0453	0.9512	0.9965
462	680.00	673.00	0.0616	0.0000	0.0616
463	651.00	638.00	0.1324	0.9114	1.0438
464	725.00	718.00	0.0000	1.1930	1.1930
465	785.00	779.00	0.0337	0.0000	0.0337
466	782.00	772.00	0.0000	0.0439	0.0439
467	725.00	718.00	0.0874	0.0000	0.0874
468	706.73	694.90	0.0000	1.0839	1.0839
469	695.00	688.00	0.0340	0.0000	0.0340
470	670.00	665.00	0.0432	0.0000	0.0432
471	685.00	678.00	0.0192	0.0000	0.0192
472	685.00	678.00	0.1562	0.0000	0.1562
473	642.54	626.31	0.0000	3.0305	3.0305
474	651.00	627.00	0.0082	0.0000	0.0082
475	680.00	673.00	0.0504	0.0411	0.0915
476	655.00	649.50	0.0208	0.0000	0.0208
477	662.59	648.99	0.0000	0.1705	0.1705
478	624.00	617.00	0.2328	0.0000	0.2328
479	645.00	628.00	0.0000	1.0438	1.0438
480	645.00	623.00	0.2107	1.0438	1.2545
481	625.00	600.00	0.0250	1.2545	1.2796
482	620.00	593.00	0.0000	1.3029	1.3029
483	619.00	600.00	0.0233	0.0000	0.0233
484	600.00	590.00	0.0000	1.5357	1.5357
485	611.00	604.00	1.3029	0.0000	1.3029
486	626.00	619.00	0.0695	0.0000	0.0695
487	622.00	615.00	0.0000	0.0695	0.0695
488	621.06	600.07	0.0000	0.0000	0.0000
489	668.34	664.34	0.0000	0.0000	0.0000
491	620.67	607.00	0.0000	0.0000	0.0000
492	612.00	604.00	0.0000	0.0000	0.0000
493	617.21	603.50	0.0000	0.0000	0.0000
494	621.75	602.00	0.0000	0.0000	0.0000
495	615.51	603.00	0.0000	0.0000	0.0000
496	729.11	722.11	0.0000	0.0000	0.0000
497	655.41	644.22	0.0000	0.0000	0.0000
498	660.78	650.78	0.0000	0.0000	0.0000
499	656.22	645.50	0.0000	0.0000	0.0000

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-1	240	702.58	241	701.32	291.4	0.004	8.0	0.013	1.23	0.0288	17.1
CO-2	241	701.32	242	697.69	852.2	0.004	8.0	0.013	1.31	0.0365	19.9
CO-3	242	697.69	243	696.43	290.7	0.004	8.0	0.013	1.47	0.0528	21.8
CO-4	243	696.43	244	694.41	398.9	0.005	8.0	0.013	1.60	0.0592	22.1
CO-5	239	647.00	238	645.49	401.5	0.004	10.0	0.013	2.02	0.2059	31.3
CO-6	244	694.41	245	685.41	1,382.5	0.007	8.0	0.013	1.83	0.0684	23.2
CO-7	238	645.49	237	637.60	411.9	0.019	10.0	0.013	3.61	0.2072	31.7
CO-8	245	685.41	246	695.20	1,204.2	0.008	8.0	0.013	0.91	0.0053	15.2
CO-9	237	637.60	236	637.50	8.5	0.012	12.0	0.013	3.33	0.3026	26.1
CO-10	245	685.41	247	684.09	317.3	0.004	10.0	0.013	1.56	0.0744	19.9
CO-11	236	637.50	235	634.00	466.8	0.007	12.0	0.013	2.83	0.3026	30.3
CO-12	247	684.09	248	682.77	308.0	0.004	10.0	0.013	1.64	0.0845	20.3
CO-13	235	634.00	234	633.00	295.1	0.003	12.0	0.013	2.14	0.3040	30.4
CO-14	248	682.77	249	672.11	314.3	0.034	10.0	0.013	3.55	0.0983	20.3
CO-15	234	633.00	233	630.54	378.4	0.007	12.0	0.013	2.70	0.3044	28.4
CO-16	249	672.11	250	660.38	321.6	0.036	10.0	0.013	3.67	0.1010	20.6
CO-17	250	660.38	251	684.04	730.2	0.032	8.0	0.013	1.28	0.0033	15.4
CO-18	233	630.54	424	625.81	140.6	0.034	12.0	0.013	4.83	0.3048	29.1
CO-19	424	625.81	232	619.02	202.2	0.034	12.0	0.013	4.96	0.3323	24.4
CO-20	232	619.02	231	613.00	312.8	0.019	12.0	0.013	4.07	0.3323	25.8
CO-21	250	660.38	252	647.39	332.3	0.039	10.0	0.013	3.81	0.1058	26.8
CO-22	231	613.00	430	605.89	258.6	0.027	12.0	0.013	4.62	0.3323	24.8
CO-23	252	647.39	253	646.89	158.8	0.003	10.0	0.013	1.84	0.1846	30.3
CO-24	253	646.89	254	619.55	3,440.3	0.008	10.0	0.013	2.56	0.1846	31.0
CO-25	230	648.07	412	638.43	266.7	0.036	10.0	0.013	3.59	0.0954	22.1
CO-26	412	638.43	237	637.60	309.3	0.003	10.0	0.013	1.44	0.0954	29.2
CO-27	229	656.66	230	648.07	315.5	0.027	10.0	0.013	2.52	0.0414	16.4
CO-28	255	627.08	254	619.55	590.6	0.013	8.0	0.013	0.98	0.0040	24.0
CO-29	228	663.43	229	656.66	460.3	0.015	10.0	0.013	2.04	0.0414	11.8
CO-30	256	640.84	326	620.64	295.6	0.068	8.0	0.013	3.25	0.0293	15.5

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-31	227	668.10	228	663.43	339.0	0.014	10.0	0.013	1.99	0.0414	11.9
CO-32	257	670.87	256	640.84	980.6	0.031	8.0	0.013	1.44	0.0051	10.2
CO-33	226	668.49	227	668.10	100.5	0.004	10.0	0.013	1.28	0.0414	13.8
CO-34	258	648.16	256	640.84	303.2	0.024	8.0	0.013	2.08	0.0224	13.5
CO-35	225	669.14	226	668.49	136.6	0.005	8.0	0.013	1.37	0.0372	18.1
CO-36	259	652.60	258	648.16	309.8	0.014	8.0	0.013	1.45	0.0121	10.9
CO-37	224	669.80	225	669.14	134.9	0.005	8.0	0.013	1.34	0.0334	17.3
CO-38	260	673.84	259	652.60	1,053.0	0.020	8.0	0.013	1.50	0.0097	8.7
CO-39	223	684.76	224	669.80	689.2	0.022	6.0	0.013	1.25	0.0042	15.0
CO-40	260	673.84	261	696.00	818.6	0.027	8.0	0.013	1.32	0.0042	6.8
CO-41	262	677.53	258	648.16	1,100.3	0.027	8.0	0.013	1.64	0.0092	10.3
CO-42	222	676.80	226	668.49	423.1	0.020	8.0	0.013	1.15	0.0040	11.8
CO-43	263	658.54	264	634.66	516.9	0.046	8.0	0.013	2.04	0.0101	9.2
CO-44	221	683.02	222	676.80	213.6	0.029	8.0	0.013	1.18	0.0029	4.8
CO-45	265	665.52	264	634.66	750.4	0.041	8.0	0.013	1.41	0.0033	7.4
CO-46	220	688.63	221	683.02	487.0	0.012	8.0	0.013	0.79	0.0022	4.2
CO-47	266	628.22	264	634.66	293.0	0.022	8.0	0.013	1.74	0.0143	11.4
CO-48	219	689.42	220	688.63	193.8	0.004	6.0	0.013	0.36	0.0004	4.2
CO-49	267	643.95	266	628.22	481.0	0.033	8.0	0.013	1.61	0.0068	9.8
CO-50	218	670.90	224	669.80	266.6	0.004	8.0	0.013	1.21	0.0288	16.5
CO-51	268	647.43	267	643.95	694.3	0.005	8.0	0.013	0.75	0.0048	6.8
CO-52	217	687.85	218	670.90	698.4	0.024	6.0	0.013	1.32	0.0044	14.8
CO-53	269	646.31	270	617.80	581.9	0.049	8.0	0.013	1.53	0.0035	24.1
CO-54	272	618.69	271	652.34	1,548.7	0.022	8.0	0.013	1.58	0.0103	26.3
CO-55	216	672.00	218	670.90	232.2	0.005	8.0	0.013	1.20	0.0235	15.3
CO-56	254	619.55	272	618.69	296.6	0.003	12.0	0.013	1.85	0.2200	28.9
CO-57	215	690.00	216	672.00	860.3	0.021	8.0	0.013	1.16	0.0037	9.7
CO-58	272	618.69	270	617.80	309.2	0.003	12.0	0.013	1.87	0.2314	29.1
CO-59	270	617.80	273	615.97	565.7	0.003	12.0	0.013	1.96	0.2376	29.3
CO-60	214	673.10	216	672.00	245.5	0.004	8.0	0.013	1.10	0.0189	13.6

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-61	274	640.17	273	615.97	796.6	0.030	8.0	0.013	1.28	0.0035	24.8
CO-62	213	678.39	214	673.10	185.1	0.029	8.0	0.013	2.07	0.0180	12.1
CO-63	273	615.97	275	614.51	486.5	0.003	12.0	0.013	1.92	0.2440	29.9
CO-64	212	680.00	213	678.39	304.2	0.005	8.0	0.013	1.14	0.0174	11.6
CO-65	266	628.22	275	614.51	553.2	0.025	8.0	0.013	2.12	0.0229	28.9
CO-66	211	686.00	212	680.00	267.7	0.022	8.0	0.013	1.11	0.0031	8.3
CO-67	275	614.51	276	613.48	291.9	0.004	12.0	0.013	2.09	0.2677	30.0
CO-68	210	688.87	211	686.00	157.2	0.018	6.0	0.013	0.75	0.0009	4.9
CO-69	276	613.48	277	610.89	710.4	0.004	12.0	0.013	2.13	0.2741	28.6
CO-70	209	687.63	211	686.00	83.5	0.020	8.0	0.013	0.74	0.0009	3.6
CO-71	278	622.17	277	610.89	673.5	0.017	8.0	0.013	1.05	0.0035	22.8
CO-72	208	681.50	212	680.00	253.8	0.006	8.0	0.013	1.09	0.0134	11.2
CO-73	279	623.67	276	613.48	406.8	0.025	8.0	0.013	1.09	0.0024	24.6
CO-74	277	610.89	280	606.77	365.3	0.011	12.0	0.013	3.20	0.2776	29.3
CO-76	281	607.50	280	606.77	179.1	0.004	12.0	0.013	1.29	0.0434	21.6
CO-77	282	673.59	249	672.11	326.8	0.005	8.0	0.013	0.57	0.0022	15.1
CO-78	283	705.91	247	684.09	1,330.0	0.016	8.0	0.013	1.38	0.0092	16.8
CO-81	207	626.60	426	612.04	307.7	0.047	8.0	0.013	3.68	0.0689	18.0
CO-82	284	699.50	242	697.69	287.2	0.006	8.0	0.013	1.18	0.0163	16.4
CO-83	206	630.70	207	626.60	911.8	0.004	8.0	0.013	0.70	0.0044	14.4
CO-85	345	614.98	425	609.57	1,421.9	0.004	30.0	0.013	4.11	3.5162	31.2
CO-86	289	661.54	17	660.12	285.9	0.005	8.0	0.013	1.08	0.0158	14.2
CO-87	204	627.53	345	626.00	36.4	0.042	8.0	0.013	3.26	0.0521	15.8
CO-88	286	677.74	17	660.12	2,621.1	0.007	8.0	0.013	1.22	0.0169	14.0
CO-89	202	640.44	321	639.66	250.2	0.003	15.0	0.013	2.25	0.4331	28.9
CO-90	201	628.50	207	626.60	240.3	0.008	8.0	0.013	1.93	0.0645	21.9
CO-91	285	665.28	287	679.40	594.4	0.024	8.0	0.013	1.01	0.0022	5.8
CO-92	200	629.00	201	628.50	107.3	0.005	8.0	0.013	1.55	0.0579	21.9
CO-93	288	675.31	289	661.54	1,167.4	0.012	8.0	0.013	1.05	0.0055	8.9
CO-94	199	629.51	200	629.00	270.2	0.002	8.0	0.013	1.07	0.0488	23.9

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
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Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-95	289	661.54	290	662.79	297.0	0.004	8.0	0.013	0.89	0.0103	10.8
CO-96	198	630.48	199	629.51	271.9	0.004	8.0	0.013	1.29	0.0433	23.1
CO-97	197	631.95	198	630.48	272.7	0.005	8.0	0.013	0.97	0.0101	14.9
CO-98	285	665.28	291	664.04	295.7	0.004	8.0	0.013	0.75	0.0059	8.2
CO-99	196	653.00	197	631.95	1,538.4	0.014	8.0	0.013	1.30	0.0092	8.7
CO-100	291	664.04	290	662.79	284.2	0.004	8.0	0.013	0.85	0.0081	9.3
CO-101	292	647.93	239	647.00	246.9	0.004	10.0	0.013	2.02	0.2055	33.1
CO-102	293	680.00	294	675.28	929.8	0.005	8.0	0.013	0.76	0.0051	8.1
CO-103	295	677.87	294	675.28	357.4	0.007	8.0	0.013	0.73	0.0029	7.1
CO-104	294	675.28	296	674.16	282.6	0.004	8.0	0.013	0.84	0.0090	9.6
CO-105	297	679.94	296	679.00	235.5	0.004	8.0	0.013	0.49	0.0015	3.7
CO-106	195	645.00	198	630.48	884.8	0.016	8.0	0.013	2.04	0.0330	18.0
CO-107	296	674.16	298	673.27	174.1	0.005	8.0	0.013	0.99	0.0114	10.5
CO-108	299	680.79	298	680.00	199.7	0.004	8.0	0.013	0.41	0.0009	2.8
CO-109	194	656.00	195	645.00	692.6	0.016	8.0	0.013	1.58	0.0145	12.7
CO-110	298	673.27	300	672.05	278.6	0.004	8.0	0.013	0.98	0.0134	11.9
CO-111	193	650.50	195	645.00	914.5	0.006	8.0	0.013	1.08	0.0128	12.7
CO-112	301	683.51	300	672.05	815.0	0.014	8.0	0.013	0.97	0.0033	8.8
CO-113	300	672.05	302	667.28	751.5	0.006	8.0	0.013	1.29	0.0218	14.3
CO-114	302	667.28	303	683.19	672.1	0.024	8.0	0.013	1.36	0.0057	11.1
CO-115	192	635.34	199	629.51	829.0	0.007	8.0	0.013	0.88	0.0055	16.1
CO-116	302	667.28	304	684.74	1,027.1	0.017	8.0	0.013	1.31	0.0075	11.5
CO-117	302	667.28	322	651.66	966.7	0.016	8.0	0.013	2.07	0.0350	14.3
CO-118	191	630.32	201	628.50	230.8	0.008	8.0	0.013	0.93	0.0057	14.0
CO-119	305	678.88	362	677.92	177.8	0.005	12.0	0.013	2.50	0.2945	28.5
CO-120	361	675.46	306	663.81	1,437.1	0.008	12.0	0.013	2.92	0.3049	28.6
CO-121	190	624.00	189	620.00	256.5	0.016	18.0	0.013	5.93	1.8377	43.8
CO-122	306	663.81	15	656.95	666.8	0.010	12.0	0.013	3.20	0.3106	29.3
CO-123	307	665.85	15	656.95	1,427.9	0.006	8.0	0.013	1.29	0.0218	28.8
CO-124	308	677.81	307	665.85	849.6	0.014	8.0	0.013	1.08	0.0048	9.3

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CO-125	188	625.00	190	624.00	149.2	0.007	18.0	0.013	4.37	1.8363	42.7
CO-126	309	668.86	307	665.85	582.4	0.005	8.0	0.013	0.92	0.0090	10.8
CO-127	187	625.80	188	625.00	137.1	0.006	8.0	0.013	2.85	0.4078	78.3
CO-128	186	640.10	187	625.80	303.8	0.047	8.0	0.013	6.18	0.4069	58.4
CO-129	185	645.00	186	640.10	598.4	0.008	8.0	0.013	3.23	0.4027	55.9
CO-130	310	665.47	306	663.81	543.5	0.003	8.0	0.013	0.50	0.0022	24.1
CO-131	184	648.00	185	645.00	217.1	0.014	8.0	0.013	3.93	0.3979	55.5
CO-132	183	649.00	184	648.00	189.0	0.005	8.0	0.013	2.72	0.3972	58.5
CO-133	182	650.00	183	649.00	389.0	0.003	8.0	0.013	2.00	0.3939	71.6
CO-134	311	666.46	41	639.00	1,530.1	0.018	8.0	0.013	1.63	0.0139	10.9
CO-135	181	652.00	182	650.00	287.4	0.007	8.0	0.013	3.01	0.3889	68.6
CO-136	180	661.00	181	652.00	687.9	0.013	8.0	0.013	3.82	0.3884	55.2
CO-137	179	665.00	180	661.00	388.6	0.010	8.0	0.013	3.49	0.3854	54.6
CO-138	178	666.00	179	665.00	38.0	0.026	8.0	0.013	4.92	0.3831	54.4
CO-139	177	668.00	178	666.00	336.3	0.006	8.0	0.013	2.83	0.3831	56.1
CO-140	176	669.00	177	668.00	368.4	0.003	8.0	0.013	1.69	0.1592	50.7
CO-141	230	648.07	313	649.00	21.7	0.043	8.0	0.013	3.32	0.0540	22.2
CO-142	314	656.00	313	649.00	339.8	0.021	8.0	0.013	2.35	0.0405	18.4
CO-143	315	658.50	314	656.00	143.4	0.017	8.0	0.013	1.96	0.0270	15.4
CO-144	175	679.19	176	669.00	814.3	0.013	8.0	0.013	0.90	0.0029	23.9
CO-145	316	664.00	315	658.50	272.6	0.020	8.0	0.013	1.67	0.0135	11.8
CO-146	174	645.64	186	640.10	667.4	0.008	6.0	0.013	0.79	0.0029	40.7
CO-147	317	670.00	315	658.50	404.5	0.028	8.0	0.013	1.88	0.0135	11.8
CO-148	173	626.80	188	625.00	365.3	0.005	14.0	0.013	3.67	1.4285	54.9
CO-149	318	663.00	314	656.00	396.1	0.018	8.0	0.013	1.61	0.0135	13.4
CO-150	168	628.50	173	626.80	459.3	0.004	14.0	0.013	3.28	1.4263	57.6
CO-151	313	649.00	319	667.00	517.4	0.035	8.0	0.013	2.01	0.0135	14.7
CO-152	172	639.48	168	628.50	391.1	0.028	6.0	0.013	1.45	0.0051	54.3
CO-154	171	646.05	172	639.48	354.8	0.019	6.0	0.013	1.12	0.0035	7.9
CO-155	354	650.64	320	648.58	322.7	0.006	12.0	0.013	2.78	0.3471	30.9

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CO-156	15	656.95	354	650.64	360.7	0.017	12.0	0.013	3.94	0.3344	30.1
CO-157	170	653.00	171	646.05	238.8	0.029	6.0	0.013	1.15	0.0022	6.4
CO-158	321	639.66	203	639.30	105.3	0.003	15.0	0.013	2.32	0.4331	27.1
CO-159	169	665.64	170	653.00	652.8	0.019	6.0	0.013	0.93	0.0018	5.3
CO-160	292	647.93	322	651.66	394.9	0.009	10.0	0.013	1.66	0.0350	22.5
CO-161	203	639.30	323	630.00	377.8	0.025	15.0	0.013	4.68	0.4336	21.5
CO-162	167	629.20	168	628.50	367.2	0.002	14.0	0.013	2.49	1.4212	68.2
CO-163	323	619.50	345	614.98	1,296.4	0.003	30.0	0.013	3.96	3.4641	31.7
CO-164	166	629.50	167	629.20	167.0	0.002	14.0	0.013	2.43	1.4186	77.1
CO-165	43	630.25	324	634.24	897.8	0.004	8.0	0.013	1.26	0.0308	18.7
CO-166	165	630.00	166	629.50	153.0	0.003	14.0	0.013	3.12	1.4186	70.7
CO-167	55	665.37	45	651.86	315.9	0.043	8.0	0.013	1.69	0.0057	9.3
CO-168	46	659.46	324	634.24	889.1	0.028	8.0	0.013	2.09	0.0187	14.0
CO-169	325	662.79	263	658.54	1,005.0	0.004	8.0	0.013	0.79	0.0068	8.3
CO-170	162	634.50	163	633.00	334.4	0.004	14.0	0.013	3.52	1.3923	55.8
CO-171	326	620.64	254	619.55	251.9	0.004	8.0	0.013	1.25	0.0306	29.6
CO-172	252	647.39	334	656.25	262.4	0.034	8.0	0.013	3.41	0.0788	32.4
CO-173	161	636.92	160	635.27	354.0	0.005	8.0	0.013	0.80	0.0064	9.1
CO-174	327	660.05	328	678.10	417.1	0.043	8.0	0.013	2.25	0.0152	17.1
CO-175	158	630.50	165	630.00	200.7	0.002	14.0	0.013	2.80	1.4186	66.1
CO-176	328	678.10	329	695.12	949.3	0.018	8.0	0.013	1.61	0.0132	10.0
CO-177	164	631.00	158	630.50	187.5	0.003	14.0	0.013	2.88	1.4137	67.8
CO-178	329	695.12	330	699.70	756.9	0.006	8.0	0.013	0.96	0.0086	9.0
CO-179	159	670.11	158	630.50	1,038.3	0.038	8.0	0.013	1.44	0.0040	52.6
CO-180	330	699.70	331	705.20	374.2	0.015	8.0	0.013	1.08	0.0046	7.0
CO-181	157	674.92	156	674.17	193.2	0.004	6.0	0.013	0.35	0.0004	4.8
CO-182	331	705.20	332	709.51	705.8	0.006	8.0	0.013	0.67	0.0026	5.2
CO-183	156	674.17	155	667.41	335.7	0.020	6.0	0.013	1.09	0.0029	5.9
CO-184	333	708.81	248	682.77	2,225.1	0.012	8.0	0.013	1.37	0.0130	17.4
CO-185	155	667.41	154	663.28	201.3	0.021	6.0	0.013	1.09	0.0029	9.1

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CO-186	335	657.00	334	656.25	142.1	0.005	8.0	0.013	1.77	0.0788	24.5
CO-187	153	631.50	164	631.00	162.2	0.003	14.0	0.013	3.05	1.4137	65.3
CO-188	335	657.00	327	660.05	174.6	0.017	8.0	0.013	2.70	0.0788	24.5
CO-189	163	633.00	153	631.50	333.0	0.005	14.0	0.013	3.53	1.4016	59.8
CO-190	336	677.25	327	660.05	2,121.0	0.008	8.0	0.013	1.94	0.0636	22.6
CO-191	154	663.28	153	631.50	943.1	0.034	8.0	0.013	1.88	0.0113	54.4
CO-192	152	676.00	156	674.17	322.2	0.006	6.0	0.013	0.66	0.0024	6.6
CO-193	338	693.00	339	683.00	782.3	0.013	8.0	0.013	1.08	0.0055	16.8
CO-194	151	675.20	154	663.28	1,070.0	0.011	8.0	0.013	0.97	0.0044	7.2
CO-195	339	683.00	340	688.00	493.5	0.010	8.0	0.013	2.38	0.0981	27.1
CO-196	150	678.72	149	655.42	1,104.9	0.021	6.0	0.013	1.33	0.0053	9.9
CO-197	339	683.00	341	679.33	137.1	0.027	8.0	0.013	3.40	0.1036	38.0
CO-198	149	655.42	163	633.00	909.9	0.025	6.0	0.013	1.62	0.0084	55.5
CO-199	341	679.33	305	678.88	140.1	0.003	12.0	0.013	2.07	0.2945	30.3
CO-200	22	651.05	342	658.95	617.7	0.013	8.0	0.013	2.92	0.1497	35.6
CO-201	41	639.00	39	622.00	438.3	0.039	8.0	0.013	2.39	0.0202	13.2
CO-202	148	680.50	147	659.89	736.3	0.028	6.0	0.013	1.25	0.0031	7.6
CO-203	147	659.89	146	650.80	495.2	0.018	6.0	0.013	1.25	0.0051	9.2
CO-204	146	650.80	145	646.00	329.3	0.015	6.0	0.013	1.26	0.0066	10.8
CO-205	145	646.00	162	634.50	453.5	0.025	6.0	0.013	1.70	0.0095	55.9
CO-206	346	689.42	340	688.00	142.3	0.010	8.0	0.013	2.37	0.0981	25.3
CO-207	347	698.78	346	689.42	937.7	0.010	8.0	0.013	1.13	0.0084	17.2
CO-208	144	672.16	143	662.41	374.8	0.026	6.0	0.013	0.98	0.0015	5.9
CO-209	348	692.79	346	689.42	337.1	0.010	8.0	0.013	2.30	0.0898	26.2
CO-210	143	662.41	142	651.77	460.6	0.023	6.0	0.013	1.21	0.0035	7.6
CO-211	349	697.65	348	692.79	485.6	0.010	8.0	0.013	1.44	0.0183	18.4
CO-212	142	651.77	141	645.63	435.8	0.014	6.0	0.013	1.09	0.0044	8.8
CO-213	350	702.37	349	697.65	472.0	0.010	8.0	0.013	1.16	0.0092	9.7
CO-214	141	645.63	161	636.92	486.9	0.018	6.0	0.013	1.34	0.0064	9.9
CO-215	351	708.52	350	702.37	615.0	0.010	8.0	0.013	1.16	0.0092	7.9

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CO-216	140	643.95	160	635.27	617.3	0.014	6.0	0.013	1.37	0.0092	12.8
CO-217	352	706.17	349	697.65	867.6	0.010	8.0	0.013	1.06	0.0070	9.2
CO-218	139	661.44	140	643.95	789.8	0.022	6.0	0.013	1.58	0.0088	11.4
CO-219	138	669.70	139	661.44	345.6	0.024	6.0	0.013	1.40	0.0055	10.1
CO-220	137	680.00	138	669.70	508.1	0.020	6.0	0.013	1.22	0.0042	8.3
CO-221	353	694.00	348	692.79	652.5	0.002	8.0	0.013	1.17	0.0691	28.2
CO-222	136	684.94	137	680.00	379.1	0.013	6.0	0.013	0.86	0.0022	6.7
CO-223	355	665.60	354	650.64	1,778.9	0.008	8.0	0.013	1.17	0.0112	27.3
CO-224	135	679.62	134	653.27	1,335.1	0.020	6.0	0.013	0.88	0.0015	8.1
CO-225	134	653.27	133	644.00	562.7	0.016	6.0	0.013	1.43	0.0090	10.6
CO-226	133	644.00	12th Street LS (Downtown)	622.00	549.6	0.040	6.0	0.013	1.98	0.0090	9.6
CO-227	356	667.08	320	648.58	2,402.2	0.008	8.0	0.013	1.35	0.0200	29.5
CO-228	132	627.15	12th Street LS (Downtown)	622.00	244.8	0.021	6.0	0.013	1.82	0.0148	13.1
CO-229	357	669.69	358	641.44	1,728.6	0.016	8.0	0.013	1.58	0.0139	33.6
CO-230	131	628.00	132	627.15	405.8	0.002	6.0	0.013	0.81	0.0148	17.4
CO-231	130	629.50	131	628.00	197.5	0.008	8.0	0.013	1.21	0.0143	12.6
CO-232	129	630.50	130	629.50	383.8	0.003	8.0	0.013	0.84	0.0143	11.5
CO-233	128	631.00	129	630.50	153.7	0.003	8.0	0.013	0.78	0.0090	11.4
CO-234	360	665.00	359	651.40	1,183.8	0.011	8.0	0.013	1.06	0.0057	12.5
CO-235	127	632.00	128	631.00	351.8	0.003	8.0	0.013	0.71	0.0076	9.6
CO-236	362	677.92	361	675.46	471.7	0.005	12.0	0.013	2.48	0.2978	28.6
CO-237	126	633.00	127	632.00	344.4	0.003	8.0	0.013	0.69	0.0067	9.1
CO-238	5	689.00	363	715.00	673.2	0.039	8.0	0.013	1.59	0.0053	14.3
CO-239	125	634.00	126	633.00	179.5	0.006	8.0	0.013	0.66	0.0027	6.9
CO-240	364	712.00	2	688.00	890.5	0.027	8.0	0.013	2.06	0.0191	16.5

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CO-241	124	634.50	125	634.00	212.1	0.002	8.0	0.013	0.43	0.0018	4.9
CO-242	365	714.00	364	712.00	276.5	0.007	8.0	0.013	1.21	0.0150	11.0
CO-243	123	635.37	126	633.00	321.6	0.007	8.0	0.013	0.69	0.0022	6.5
CO-244	366	715.00	365	714.00	306.0	0.003	8.0	0.013	0.67	0.0055	9.1
CO-245	122	635.00	127	632.00	178.5	0.017	8.0	0.013	0.57	0.0004	5.6
CO-246	367	726.00	366	715.00	807.7	0.014	8.0	0.013	1.07	0.0048	6.8
CO-247	121	635.41	127	632.00	173.3	0.020	8.0	0.013	0.60	0.0004	5.6
CO-248	368	700.00	7	694.00	460.6	0.013	8.0	0.013	1.43	0.0132	15.1
CO-249	120	635.00	128	631.00	150.1	0.027	8.0	0.013	0.92	0.0013	6.4
CO-250	369	718.00	368	700.00	841.0	0.021	8.0	0.013	1.23	0.0046	7.7
CO-251	119	634.00	126	633.00	500.8	0.002	8.0	0.013	0.41	0.0018	7.0
CO-252	370	713.00	368	700.00	1,071.5	0.012	8.0	0.013	1.11	0.0064	8.2
CO-253	118	627.79	117	626.32	289.7	0.005	8.0	0.013	0.36	0.0004	2.1
CO-254	371	700.00	7	694.00	1,023.4	0.006	8.0	0.013	1.33	0.0260	17.4
CO-255	117	626.32	116	618.45	198.6	0.040	6.0	0.013	0.79	0.0004	6.6
CO-256	372	711.50	371	700.00	310.2	0.037	8.0	0.013	1.86	0.0097	11.2
CO-257	115	621.81	116	618.45	445.2	0.008	6.0	0.013	1.02	0.0071	10.5
CO-258	373	723.00	372	711.50	1,099.7	0.010	8.0	0.013	1.02	0.0057	7.3
CO-259	114	623.31	115	621.81	233.6	0.006	6.0	0.013	0.88	0.0053	9.9
CO-260	374	713.00	372	711.50	582.4	0.003	8.0	0.013	0.52	0.0031	7.3
CO-261	113	628.33	114	623.31	342.6	0.015	6.0	0.013	0.92	0.0024	7.6
CO-262	421	703.00	371	700.00	712.0	0.004	8.0	0.013	0.95	0.0128	12.6
CO-263	375	728.00	421	703.00	1,201.3	0.021	8.0	0.013	1.58	0.0110	9.9
CO-264	1	698.09	376	696.53	355.3	0.004	8.0	0.013	1.18	0.0251	16.9
CO-265	112	615.01	111	611.01	237.9	0.017	6.0	0.013	1.04	0.0031	7.8
CO-266	420	703.53	376	696.53	605.5	0.012	8.0	0.013	1.51	0.0183	15.0
CO-267	377	706.51	420	703.53	298.4	0.010	8.0	0.013	1.31	0.0134	10.5
CO-268	111	611.01	110	608.70	275.6	0.008	6.0	0.013	0.98	0.0055	12.5
CO-269	378	713.85	377	706.51	733.8	0.010	8.0	0.013	1.07	0.0070	8.4
CO-270	110	608.70	109	604.00	344.3	0.014	6.0	0.013	1.65	0.0176	15.0

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CO-271	379	714.15	377	706.51	764.5	0.010	8.0	0.013	1.04	0.0064	8.2
CO-272	380	719.51	378	713.85	565.7	0.010	8.0	0.013	0.73	0.0020	5.4
CO-273	109	604.00	Meadowlands LS	575.00	387.8	0.075	6.0	0.013	3.01	0.0176	12.6
CO-275	116	618.45	108	614.00	188.1	0.024	6.0	0.013	1.58	0.0080	11.5
CO-276	376	696.53	381	694.75	339.3	0.005	8.0	0.013	1.48	0.0433	21.1
CO-277	108	614.00	110	608.70	259.6	0.020	6.0	0.013	1.61	0.0104	14.2
CO-278	381	694.75	382	703.00	251.3	0.033	8.0	0.013	1.81	0.0101	16.0
CO-279	107	614.58	110	608.70	315.6	0.019	6.0	0.013	0.92	0.0018	10.5
CO-280	419	707.83	382	703.00	385.6	0.013	8.0	0.013	1.29	0.0101	8.0
CO-281	383	719.54	419	707.83	1,171.0	0.010	8.0	0.013	1.09	0.0075	7.9
CO-282	418	708.77	381	694.75	473.6	0.030	8.0	0.013	1.77	0.0106	16.0
CO-283	384	719.84	418	708.77	1,106.7	0.010	8.0	0.013	1.08	0.0073	7.9
CO-284	385	685.81	341	679.33	484.7	0.013	12.0	0.013	3.04	0.1909	27.3
CO-285	105	622.00	104	617.00	414.5	0.012	8.0	0.013	0.81	0.0022	4.3
CO-286	386	687.25	385	685.81	641.4	0.002	12.0	0.013	1.57	0.1716	24.6
CO-287	104	617.00	103	615.00	206.6	0.010	8.0	0.013	0.83	0.0031	6.8
CO-288	387	688.61	386	687.25	444.9	0.003	12.0	0.013	1.64	0.1375	24.5
CO-289	103	615.00	102	609.00	1,139.8	0.005	8.0	0.013	0.94	0.0092	8.5
CO-290	388	693.02	390	692.34	257.6	0.003	12.0	0.013	1.51	0.1240	25.8
CO-291	102	609.00	101	608.00	117.7	0.008	8.0	0.013	1.11	0.0092	8.2
CO-292	389	710.00	388	693.02	1,344.6	0.013	8.0	0.013	1.19	0.0077	20.1
CO-293	101	608.00	100	607.00	152.9	0.007	8.0	0.013	1.01	0.0092	10.1
CO-294	100	607.00	99	604.00	533.6	0.006	8.0	0.013	1.16	0.0174	12.2
CO-295	99	604.00	98	600.83	341.8	0.009	8.0	0.013	1.48	0.0222	15.1
CO-296	390	692.34	387	692.22	161.6	0.001	12.0	0.013	0.96	0.1240	23.8
CO-297	98	600.83	97	600.00	397.2	0.002	8.0	0.013	0.90	0.0240	15.6
CO-298	391	695.51	388	693.02	1,082.9	0.002	12.0	0.013	1.41	0.1163	21.9
CO-299	97	600.00	96	597.00	421.0	0.007	8.0	0.013	1.42	0.0262	14.0
CO-300	392	696.28	391	695.51	286.3	0.003	12.0	0.013	1.47	0.1094	21.2

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CO-301	96	597.00	95	592.25	458.7	0.010	8.0	0.013	1.67	0.0286	13.6
CO-302	393	696.97	392	696.28	250.7	0.003	12.0	0.013	1.46	0.1046	20.2
CO-303	95	592.25	Meadowlands LS	575.00	518.3	0.033	8.0	0.013	2.50	0.0286	12.1
CO-304	394	697.75	393	696.97	281.7	0.003	12.0	0.013	1.44	0.0998	19.6
CO-305	106	619.36	94	614.07	439.9	0.012	6.0	0.013	1.06	0.0046	8.8
CO-306	395	700.29	394	697.75	850.9	0.003	10.0	0.013	1.12	0.0365	19.0
CO-307	94	614.07	100	607.00	458.6	0.015	6.0	0.013	1.27	0.0064	12.7
CO-308	396	702.14	395	700.29	698.9	0.003	10.0	0.013	0.89	0.0191	13.0
CO-309	397	702.95	396	702.14	269.9	0.003	10.0	0.013	0.88	0.0163	10.6
CO-310	93	617.16	99	604.00	836.4	0.016	6.0	0.013	1.10	0.0040	12.2
CO-311	92	615.00	91	604.57	476.8	0.022	6.0	0.013	0.92	0.0015	5.3
CO-312	398	731.00	397	702.95	849.2	0.033	8.0	0.013	1.55	0.0059	9.5
CO-313	91	604.57	96	597.00	216.8	0.035	6.0	0.013	1.26	0.0024	12.5
CO-314	90	635.00	89	634.00	343.2	0.003	8.0	0.013	1.81	0.1849	41.7
CO-315	399	707.85	395	700.29	435.5	0.017	8.0	0.013	1.72	0.0174	14.8
CO-316	89	634.00	88	630.05	411.2	0.010	8.0	0.013	2.80	0.1849	35.3
CO-317	88	630.05	87	625.84	523.1	0.008	8.0	0.013	2.62	0.1849	36.1
CO-318	400	709.00	399	707.85	271.3	0.004	8.0	0.013	1.05	0.0174	11.9
CO-319	87	625.84	189	620.00	375.6	0.016	8.0	0.013	3.32	0.1849	68.5
CO-320	86	669.00	179	665.00	760.4	0.005	6.0	0.013	0.48	0.0009	38.4
CO-321	85	675.00	177	668.00	890.7	0.008	8.0	0.013	2.74	0.2239	49.5
CO-322	401	723.00	394	697.75	1,998.2	0.013	8.0	0.013	2.23	0.0606	25.0
CO-323	84	682.00	85	675.00	564.1	0.012	8.0	0.013	3.21	0.2204	40.8
CO-324	402	741.00	401	723.00	1,418.8	0.013	8.0	0.013	1.76	0.0272	17.4
CO-325	83	686.00	84	682.00	209.2	0.019	8.0	0.013	2.96	0.0959	33.5
CO-326	403	744.00	402	741.00	790.9	0.004	8.0	0.013	0.98	0.0155	13.1
CO-327	82	686.50	83	686.00	151.9	0.003	8.0	0.013	1.58	0.0952	28.9
CO-328	404	755.00	403	744.00	836.8	0.013	8.0	0.013	1.05	0.0048	9.0
CO-329	81	687.00	82	686.50	133.5	0.004	8.0	0.013	1.65	0.0939	30.7

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CO-330	405	753.00	403	744.00	588.3	0.015	8.0	0.013	1.10	0.0046	9.0
CO-331	80	688.00	83	686.00	320.5	0.006	8.0	0.013	0.45	0.0007	14.4
CO-332	406	732.00	401	723.00	1,155.9	0.008	8.0	0.013	1.58	0.0334	18.2
CO-333	407	736.00	406	732.00	664.2	0.006	8.0	0.013	1.35	0.0264	14.8
CO-334	78	661.50	79	659.00	324.9	0.008	8.0	0.013	1.51	0.0288	14.5
CO-335	408	737.00	407	736.00	270.9	0.004	8.0	0.013	0.96	0.0150	13.2
CO-336	77	662.00	78	661.50	50.3	0.010	8.0	0.013	1.62	0.0275	14.1
CO-337	409	757.00	408	737.00	1,140.8	0.018	8.0	0.013	1.38	0.0086	9.9
CO-338	76	665.00	77	662.00	485.5	0.006	8.0	0.013	1.02	0.0101	11.5
CO-339	410	755.00	408	737.00	1,141.4	0.016	8.0	0.013	1.22	0.0064	9.4
CO-340	75	669.00	76	665.00	475.3	0.008	8.0	0.013	1.07	0.0086	8.3
CO-341	411	740.00	397	702.95	1,072.5	0.035	8.0	0.013	1.85	0.0103	10.5
CO-342	74	672.00	75	669.00	401.4	0.007	8.0	0.013	0.96	0.0068	7.4
CO-346	413	711.00	394	697.75	639.1	0.021	8.0	0.013	1.03	0.0026	16.7
CO-347	414	705.00	393	696.97	610.2	0.013	8.0	0.013	1.06	0.0048	17.8
CO-348	415	702.50	392	696.28	607.9	0.010	8.0	0.013	0.97	0.0048	18.2
CO-349	73	698.00	72	696.00	255.4	0.008	6.0	0.013	0.55	0.0009	4.9
CO-350	416	715.47	4	703.96	1,151.0	0.010	8.0	0.013	1.16	0.0092	8.9
CO-351	72	696.00	71	682.00	576.3	0.024	6.0	0.013	1.12	0.0024	6.9
CO-352	417	712.02	3	700.75	1,127.0	0.010	8.0	0.013	1.13	0.0084	9.0
CO-353	71	682.00	70	674.00	390.1	0.021	8.0	0.013	1.25	0.0051	6.8
CO-354	422	639.60	203	639.30	133.7	0.002	8.0	0.013	0.28	0.0004	25.9
CO-355	70	674.00	69	672.22	263.7	0.007	8.0	0.013	0.95	0.0075	9.2
CO-356	423	643.00	424	625.81	1,116.5	0.015	8.0	0.013	1.88	0.0270	29.2
CO-357	205	613.90	425	612.00	43.1	0.044	8.0	0.013	2.78	0.0297	11.9
CO-358	426	606.67	427	605.83	294.4	0.003	30.0	0.013	3.73	3.6148	34.5
CO-359	427	605.83	428	604.98	300.8	0.003	30.0	0.013	3.72	3.6148	33.1
CO-360	68	691.50	69	672.22	1,223.9	0.016	6.0	0.013	1.13	0.0044	11.1
CO-361	428	604.98	429	604.14	212.1	0.004	30.0	0.013	4.20	3.6148	35.1
CO-362	429	604.14	430	603.75	203.9	0.002	30.0	0.013	3.23	3.6148	40.1

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CO-363	67	686.00	66	671.00	1,226.7	0.012	6.0	0.013	1.04	0.0044	11.3
CO-364	430	603.75	431	603.57	84.1	0.002	30.0	0.013	3.44	3.9470	43.2
CO-365	431	603.57	432	603.16	317.5	0.001	30.0	0.013	2.86	3.9470	44.6
CO-366	69	672.22	66	671.00	273.5	0.004	8.0	0.013	0.97	0.0125	10.9
CO-367	66	671.00	77	662.00	275.9	0.033	8.0	0.013	2.12	0.0174	12.5
CO-368	432	603.16	433	602.41	556.6	0.001	30.0	0.013	2.91	3.9470	38.5
CO-369	433	602.41	Justin Treatment Plant	596.00	189.0	0.034	30.0	0.013	9.24	3.9470	26.0
CO-370	65	684.00	208	681.50	426.9	0.006	8.0	0.013	0.88	0.0068	8.9
CO-371	434	688.76	438	670.33	2,927.0	0.006	21.0	0.013	3.68	1.1347	28.3
CO-372(1)	438	670.33	460	664.17	1,000.5	0.006	21.0	0.013	3.81	1.3089	30.6
CO-372(2)	460	664.17	435	635.85	4,596.4	0.006	21.0	0.013	3.98	1.5316	36.2
CO-373	64	686.50	65	684.00	448.6	0.006	8.0	0.013	0.75	0.0042	6.8
CO-374	435	635.85	436	628.55	1,213.7	0.006	30.0	0.013	4.63	3.0183	30.5
CO-375	63	691.00	64	686.50	258.3	0.017	8.0	0.013	0.79	0.0013	4.5
CO-376	436	628.55	437	627.00	630.3	0.002	30.0	0.013	3.36	3.0223	30.6
CO-377	62	688.00	64	686.50	95.2	0.016	8.0	0.013	0.55	0.0004	3.9
CO-378(1)	437	627.00	473	626.31	134.1	0.005	30.0	0.013	4.39	3.0223	28.5
CO-378(2)	473	626.31	323	619.50	1,317.2	0.005	30.0	0.013	4.39	3.0305	30.3
CO-379	61	691.00	60	686.00	484.7	0.010	8.0	0.013	0.82	0.0026	5.1
CO-380	240	702.58	337	706.45	884.6	0.004	8.0	0.013	1.16	0.0238	15.3
CO-381	60	686.00	59	683.50	313.1	0.008	8.0	0.013	0.88	0.0048	6.2
CO-382	280	606.77	Timberbrooks LS	606.50	58.8	0.005	15.0	0.013	2.50	0.3906	24.7
CO-383	59	683.50	208	681.50	258.1	0.008	8.0	0.013	0.91	0.0055	8.4
CO-384	439	682.54	441	675.45	178.5	0.040	15.0	0.013	4.08	0.1551	12.3
CO-385	441	675.45	438	670.33	345.8	0.015	15.0	0.013	2.87	0.1551	28.1
CO-386	58	689.97	60	686.00	174.0	0.023	8.0	0.013	0.59	0.0004	3.8
CO-387	440	686.12	439	682.54	300.9	0.012	15.0	0.013	2.67	0.1551	13.9

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CO-388	57	681.00	56	668.31	413.5	0.031	8.0	0.013	1.22	0.0029	3.9
CO-390	56	668.31	55	665.37	237.4	0.012	8.0	0.013	0.89	0.0029	5.4
CO-392	54	678.00	55	665.37	306.6	0.041	8.0	0.013	1.24	0.0022	5.1
CO-394	53	677.22	52	666.26	424.4	0.026	8.0	0.013	1.16	0.0031	5.0
CO-396	51	672.00	52	666.26	215.7	0.027	8.0	0.013	0.74	0.0007	3.8
CO-398	50	681.00	49	674.00	385.5	0.018	8.0	0.013	0.98	0.0026	4.6
CO-401	49	674.00	225	669.14	252.1	0.019	8.0	0.013	1.08	0.0035	11.4
CO-408	47	676.59	46	659.46	1,248.2	0.014	8.0	0.013	1.25	0.0081	9.5
CO-410	48	677.33	45	651.86	997.6	0.026	8.0	0.013	1.32	0.0046	9.0
CO-413	46	659.46	344	670.00	702.0	0.015	8.0	0.013	1.15	0.0055	8.9
CO-414	343	670.00	45	651.86	985.0	0.018	8.0	0.013	1.26	0.0059	9.4
CO-416	44	629.32	204	627.53	373.1	0.005	8.0	0.013	1.52	0.0521	20.2
CO-418	45	651.86	43	630.25	914.1	0.024	8.0	0.013	2.02	0.0213	16.6
CO-420	43	630.25	44	629.32	188.0	0.005	8.0	0.013	1.53	0.0521	20.9
CO-422	52	666.26	42	647.00	256.6	0.075	8.0	0.013	1.88	0.0042	4.3
CO-424	42	647.00	41	639.00	365.7	0.022	8.0	0.013	1.21	0.0042	8.7
CO-426	312	645.00	40	641.95	208.3	0.015	8.0	0.013	1.32	0.0090	7.4
CO-428	40	641.95	39	622.00	373.0	0.053	8.0	0.013	2.08	0.0090	11.2
CO-430	39	622.00	205	613.90	413.0	0.020	8.0	0.013	2.10	0.0297	12.9
CO-431	38	621.00	93	617.16	148.3	0.026	6.0	0.013	0.77	0.0007	5.3
CO-432	37	621.00	106	619.36	208.5	0.008	6.0	0.013	0.44	0.0004	5.4
CO-433	36	624.00	108	614.00	405.8	0.025	6.0	0.013	1.05	0.0020	8.8
CO-434	35	624.00	106	619.36	483.3	0.010	6.0	0.013	0.77	0.0022	6.9
CO-435	34	626.99	112	615.01	303.4	0.039	12.0	0.013	1.05	0.0018	2.7
CO-436	33	662.09	183	649.00	1,015.0	0.013	6.0	0.013	0.95	0.0031	44.4
CO-437	32	669.74	182	650.00	1,097.2	0.018	6.0	0.013	1.15	0.0040	53.8
CO-438	31	649.81	171	646.05	291.6	0.013	6.0	0.013	0.65	0.0009	5.4
CO-439	30	641.00	172	639.48	265.3	0.006	6.0	0.013	0.50	0.0009	6.3
CO-440	29	658.29	28	638.00	776.5	0.026	6.0	0.013	1.01	0.0018	5.3
CO-441	28	638.00	27	637.33	55.4	0.012	6.0	0.013	0.84	0.0022	5.5

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CO-442	27	637.33	167	629.20	165.0	0.049	6.0	0.013	1.37	0.0022	52.8
CO-443	26	656.00	185	645.00	726.4	0.015	6.0	0.013	1.02	0.0033	40.6
CO-444	25	639.27	173	626.80	539.7	0.023	6.0	0.010	1.24	0.0022	52.8
CO-445	24	633.00	131	628.00	139.7	0.036	8.0	0.013	0.71	0.0004	8.4
CO-446	23	632.98	129	630.50	282.6	0.009	8.0	0.013	0.45	0.0004	7.4
CO-447	160	635.27	12th Street LS (Downtown)	622.00	328.5	0.040	8.0	0.013	2.22	0.0157	8.8
CO-448(1)	22	651.05	477	648.99	743.5	0.003	10.0	0.013	1.65	0.1497	31.4
CO-448(2)	477	648.99	292	647.93	381.5	0.003	10.0	0.013	1.72	0.1705	32.8
CO-449	21	641.91	358	641.44	147.6	0.003	12.0	0.013	2.20	0.3689	37.4
CO-450	358	641.44	202	640.44	347.3	0.003	12.0	0.013	2.15	0.3845	37.4
CO-452	20	696.00	19	693.50	751.8	0.003	8.0	0.013	1.52	0.0818	26.6
CO-453	19	693.50	18	688.75	321.3	0.015	8.0	0.013	2.58	0.0818	25.9
CO-454	17	660.12	359	651.40	1,003.1	0.009	8.0	0.013	1.72	0.0396	17.8
CO-455	359	651.40	202	640.44	551.3	0.020	8.0	0.013	2.46	0.0486	36.7
CO-456	18	688.75	81	687.00	325.0	0.005	8.0	0.013	1.87	0.0939	28.7
CO-461(1)	16	683.00	475	673.00	1,603.5	0.006	8.0	0.013	1.55	0.0411	21.7
CO-461(2)	475	673.00	342	658.95	2,244.4	0.006	8.0	0.013	1.96	0.0915	29.6
CO-462	320	648.58	21	641.91	866.7	0.008	12.0	0.013	3.03	0.3689	33.9
CO-464	14	677.74	285	665.28	1,010.6	0.012	8.0	0.013	0.95	0.0037	6.4
CO-465	79	659.00	12th Street LS (Private)	645.00	403.8	0.035	8.0	0.013	2.59	0.0306	12.4
CO-466	13	636.61	12	626.00	1,177.1	0.009	8.0	0.013	0.56	0.0009	3.1
CO-467	12	626.00	114	623.31	227.5	0.012	8.0	0.013	0.75	0.0018	5.3
CO-468	11	635.83	12	626.00	1,238.6	0.008	8.0	0.013	0.53	0.0009	3.1
CO-469	10	611.22	9	600.00	731.6	0.015	10.0	0.013	1.16	0.0060	4.6
CO-470	9	600.00	8	597.00	587.0	0.005	18.0	0.013	0.73	0.0060	21.9

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CO-471	8	597.00	Justin Treatment Plant	596.00	132.8	0.008	24.0	0.013	4.58	2.0286	29.0
CO-474	425	609.57	426	606.67	473.4	0.006	30.0	0.013	4.88	3.5459	32.7
CO-475	189	620.00	8	597.00	298.0	0.077	18.0	0.013	10.78	2.0226	33.5
CO-476	7	694.00	6	692.50	512.8	0.003	8.0	0.013	1.17	0.0392	20.3
CO-477	6	692.50	5	689.00	1,067.3	0.003	8.0	0.013	1.22	0.0392	21.3
CO-478	4	703.96	1	698.09	835.9	0.007	8.0	0.013	1.15	0.0130	12.4
CO-479	5	689.00	2	688.00	386.2	0.003	8.0	0.013	1.16	0.0444	22.0
CO-480	2	688.00	336	677.25	291.3	0.037	8.0	0.013	3.29	0.0636	17.7
CO-481	3	700.75	1	698.09	564.1	0.005	8.0	0.013	0.98	0.0121	12.7
CO-482	381	694.75	353	694.00	162.1	0.005	8.0	0.013	1.59	0.0640	27.1
CO-483	464	718.00	456	673.00	3,406.4	0.013	15.0	0.013	5.02	1.1930	45.5
CO-484(1)	443	713.00	461	703.00	1,147.3	0.009	18.0	0.013	3.85	0.8421	29.8
CO-484(2)(1)	461	703.00	468	694.90	932.8	0.009	18.0	0.013	4.04	0.9965	32.7
CO-484(2)(2)	468	694.90	434	688.76	708.0	0.009	15.0	0.013	4.20	1.0839	38.6
CO-485	444	798.00	445	733.00	3,754.3	0.017	8.0	0.013	3.21	0.1430	47.5
CO-486	445	733.00	443	713.00	2,582.5	0.008	15.0	0.013	3.60	0.7248	33.8
CO-487(1)	446	787.00	466	772.00	1,496.7	0.010	8.0	0.013	1.21	0.0101	14.4
CO-487(2)	466	772.00	447	770.00	511.4	0.004	8.0	0.013	1.34	0.0439	22.5
CO-488	447	770.00	456	673.00	7,808.9	0.012	8.0	0.013	2.45	0.0850	57.1
CO-489	448	718.00	461	703.00	2,042.7	0.007	8.0	0.013	2.18	0.1091	49.1
CO-490	455	758.00	453	728.00	3,435.9	0.009	10.0	0.013	2.98	0.2817	43.3
CO-491	450	750.00	445	733.00	4,077.0	0.004	12.0	0.013	2.21	0.2640	35.1
CO-492	451	688.00	452	648.00	3,066.6	0.013	15.0	0.013	4.23	0.6601	33.6
CO-493(1)	452	648.00	463	638.00	2,294.5	0.004	18.0	0.013	3.02	0.8498	30.2
CO-493(2)	463	638.00	479	628.00	2,274.3	0.004	21.0	0.013	3.16	1.0438	26.6

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-495	453	728.00	Soutwest ETJ LS	723.00	1,858.5	0.003	10.0	0.013	2.12	0.3933	46.6
CO-496	454	728.00	448	718.00	2,028.8	0.005	8.0	0.013	1.82	0.0941	28.1
CO-497	449	791.00	455	758.00	3,220.1	0.010	8.0	0.013	2.75	0.1602	38.8
CO-498	456	673.00	435	635.85	2,699.9	0.014	15.0	0.013	5.37	1.4409	52.3
CO-499	457	673.00	436	628.55	1,440.5	0.031	8.0	0.013	1.34	0.0040	52.7
CO-500	458	688.00	456	673.00	1,524.1	0.010	8.0	0.013	2.38	0.1029	58.4
CO-501	459	610.50	281	607.50	710.1	0.004	12.0	0.013	1.30	0.0434	11.8
CO-502	462	673.00	463	638.00	2,294.2	0.015	8.0	0.013	2.40	0.0616	45.3
CO-503	442	768.00	464	718.00	5,429.8	0.009	15.0	0.013	4.41	1.1930	40.3
CO-504	466	772.00	465	779.00	1,610.0	0.004	8.0	0.013	1.29	0.0337	18.8
CO-505	467	718.00	468	694.90	1,438.6	0.016	8.0	0.013	2.70	0.0874	51.2
CO-506	469	688.00	386	687.25	1,306.5	0.001	12.0	0.013	0.60	0.0340	21.8
CO-507	471	678.00	438	670.33	239.6	0.032	12.0	0.013	2.06	0.0192	29.1
CO-508	470	665.00	342	658.95	1,684.8	0.004	8.0	0.013	1.30	0.0432	26.9
CO-509	472	678.00	176	669.00	1,604.9	0.006	8.0	0.013	2.19	0.1562	39.4
CO-510	474	627.00	473	626.31	61.0	0.011	12.0	0.013	1.10	0.0082	38.1
CO-511	476	649.50	477	648.99	569.4	0.001	8.0	0.013	0.64	0.0208	30.4
CO-512	478	617.00	484	590.00	4,651.4	0.006	10.0	0.013	2.44	0.2328	59.2
CO-513	479	628.00	480	623.00	1,166.6	0.004	21.0	0.013	3.14	1.0438	28.1
CO-514	480	623.00	481	600.00	5,501.6	0.004	21.0	0.013	3.27	1.2545	29.6
CO-515	481	600.00	482	593.00	1,674.0	0.004	21.0	0.013	3.29	1.2796	31.1
CO-516	482	593.00	North ETJ	592.00	133.2	0.008	15.0	0.013	4.19	1.3029	43.4
CO-517	483	600.00	482	593.00	913.7	0.008	8.0	0.013	1.41	0.0233	48.9
CO-519	485	604.00	484	590.00	2,998.4	0.005	12.0	0.013	3.46	1.3029	70.9
CO-520	484	590.00	Denton Creek SS	589.00	171.3	0.006	12.0	0.013	3.91	1.5357	69.2
CO-521	486	619.00	487	615.00	1,826.2	0.002	12.0	0.013	1.19	0.0695	15.3
CO-522	487	615.00	280	606.77	274.1	0.030	12.0	0.013	2.99	0.0695	22.4

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Average Day Flow
FlexTable: Outfall Table

Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Flow (Total Out) (MGD)
Meadowlands LS	600.74	575.00	0.0462
12th Street LS (Private)	666.05	645.00	0.0306
12th Street LS (Downtown)	637.00	622.00	0.0395
Timberbrooks LS	626.50	606.50	0.3906
Justin Treatment Plant	616.27	596.00	5.9756
Soutwest ETJ LS	730.00	723.00	0.3933
Denton Creek SS	600.00	589.00	1.5357
North ETJ	620.00	592.00	1.3029

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
1	710.15	698.09	0.0000	0.1003	0.1003
2	697.00	688.00	0.0000	0.2543	0.2543
3	713.23	700.75	0.0150	0.0334	0.0484
4	715.75	703.96	0.0150	0.0370	0.0519
5	699.00	689.00	0.0000	0.1778	0.1778
6	701.00	692.50	0.0000	0.1566	0.1566
7	701.00	694.00	0.0000	0.1566	0.1566
8	616.65	597.00	0.0000	3.0484	3.0484
9	624.36	600.00	0.0000	0.0240	0.0240
10	615.22	611.22	0.0240	0.0000	0.0240
11	639.83	635.83	0.0036	0.0000	0.0036
12	630.00	626.00	0.0000	0.0072	0.0072
13	640.61	636.61	0.0036	0.0000	0.0036
14	684.46	677.74	0.0150	0.0000	0.0150
15	665.40	656.95	0.0079	1.3296	1.3375
16	690.00	683.00	0.1644	0.0000	0.1644
17	672.00	660.12	0.0273	0.1311	0.1584
18	695.45	688.75	0.0484	0.3271	0.3755
19	700.00	693.50	0.0000	0.3271	0.3271
20	702.00	696.00	0.3271	0.0000	0.3271
21	655.88	641.91	0.0000	1.4756	1.4756
22	671.67	651.05	0.0000	0.5987	0.5987
23	636.98	632.98	0.0018	0.0000	0.0018
24	637.85	633.00	0.0018	0.0000	0.0018
25	643.27	639.27	0.0088	0.0000	0.0088
26	663.00	656.00	0.0132	0.0000	0.0132
27	641.33	637.33	0.0000	0.0089	0.0089
28	642.00	638.00	0.0018	0.0071	0.0089
29	662.29	658.29	0.0071	0.0000	0.0071
30	645.00	641.00	0.0036	0.0000	0.0036
31	653.81	649.81	0.0035	0.0000	0.0035
32	681.00	669.74	0.0158	0.0000	0.0158
33	673.00	662.09	0.0123	0.0000	0.0123
34	630.99	626.99	0.0070	0.0000	0.0070
35	628.00	624.00	0.0088	0.0000	0.0088
36	628.00	624.00	0.0079	0.0000	0.0079
37	625.00	621.00	0.0018	0.0000	0.0018
38	625.00	621.00	0.0026	0.0000	0.0026
39	626.00	622.00	0.0018	0.1170	0.1188
40	645.95	641.95	0.0000	0.0361	0.0361
41	646.00	639.00	0.0088	0.0722	0.0810
42	654.00	647.00	0.0000	0.0167	0.0167
43	639.22	630.25	0.0000	0.2086	0.2086
44	635.02	629.32	0.0000	0.2086	0.2086
45	664.58	651.86	0.0202	0.0651	0.0854
46	671.94	659.46	0.0202	0.0546	0.0748

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
47	683.37	676.59	0.0326	0.0000	0.0326
48	683.31	677.33	0.0185	0.0000	0.0185
49	680.62	674.00	0.0035	0.0106	0.0141
50	685.00	681.00	0.0106	0.0000	0.0106
51	679.25	672.00	0.0026	0.0000	0.0026
52	670.26	666.26	0.0018	0.0150	0.0167
53	681.22	677.22	0.0123	0.0000	0.0123
54	682.00	678.00	0.0088	0.0000	0.0088
55	669.37	665.37	0.0026	0.0202	0.0229
56	672.31	668.31	0.0000	0.0114	0.0114
57	685.00	681.00	0.0114	0.0000	0.0114
58	693.97	689.97	0.0018	0.0000	0.0018
59	692.00	683.50	0.0026	0.0194	0.0220
60	693.50	686.00	0.0070	0.0123	0.0194
61	695.00	691.00	0.0106	0.0000	0.0106
62	692.00	688.00	0.0018	0.0000	0.0018
63	695.00	691.00	0.0053	0.0000	0.0053
64	693.29	686.50	0.0097	0.0070	0.0167
65	691.97	684.00	0.0106	0.0167	0.0273
66	675.00	671.00	0.0018	0.0678	0.0695
67	689.00	686.00	0.0176	0.0000	0.0176
68	695.50	691.50	0.0176	0.0000	0.0176
69	676.19	672.22	0.0026	0.0475	0.0502
70	678.00	674.00	0.0097	0.0202	0.0299
71	686.09	682.00	0.0106	0.0097	0.0202
72	700.00	696.00	0.0062	0.0035	0.0097
73	702.00	698.00	0.0035	0.0000	0.0035
74	681.64	672.00	0.0273	0.0000	0.0273
75	684.00	669.00	0.0070	0.0273	0.0343
76	680.71	665.00	0.0062	0.0343	0.0405
77	673.00	662.00	0.0000	0.1100	0.1100
78	673.00	661.50	0.0053	0.1100	0.1153
79	670.00	659.00	0.0070	0.1153	0.1223
80	692.64	688.00	0.0026	0.0000	0.0026
81	697.00	687.00	0.0000	0.3755	0.3755
82	696.89	686.50	0.0053	0.3755	0.3808
83	695.07	686.00	0.0000	0.3834	0.3834
84	692.67	682.00	0.1312	0.3834	0.5146
85	686.04	675.00	0.0141	0.5146	0.5287
86	676.00	669.00	0.0036	0.0000	0.0036
87	629.75	625.84	0.0000	0.1849	0.1849
88	634.05	630.05	0.0000	0.1849	0.1849
89	638.00	634.00	0.0000	0.1849	0.1849
90	639.00	635.00	0.1849	0.0000	0.1849
91	608.57	604.57	0.0035	0.0062	0.0097
92	619.26	615.00	0.0062	0.0000	0.0062

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
93	621.16	617.16	0.0132	0.0026	0.0158
94	618.07	614.07	0.0070	0.0185	0.0255
95	596.25	592.25	0.0000	0.1144	0.1144
96	604.14	597.00	0.0000	0.1144	0.1144
97	604.00	600.00	0.0088	0.0959	0.1047
98	604.83	600.83	0.0070	0.0889	0.0959
99	615.32	604.00	0.0035	0.0854	0.0889
100	613.82	607.00	0.0070	0.0625	0.0695
101	613.00	608.00	0.0000	0.0370	0.0370
102	612.36	609.00	0.0000	0.0370	0.0370
103	617.60	615.00	0.0246	0.0123	0.0370
104	623.40	617.00	0.0035	0.0088	0.0123
105	630.59	622.00	0.0088	0.0000	0.0088
106	623.36	619.36	0.0079	0.0106	0.0185
107	618.58	614.58	0.0070	0.0000	0.0070
108	618.00	614.00	0.0018	0.0397	0.0415
109	608.00	604.00	0.0000	0.0705	0.0705
110	612.70	608.70	0.0000	0.0705	0.0705
111	615.01	611.01	0.0097	0.0123	0.0220
112	619.01	615.01	0.0053	0.0070	0.0123
113	632.33	628.33	0.0097	0.0000	0.0097
114	627.31	623.31	0.0044	0.0169	0.0213
115	625.81	621.81	0.0070	0.0213	0.0283
116	622.45	618.45	0.0018	0.0301	0.0318
117	630.32	626.32	0.0000	0.0018	0.0018
118	631.79	627.79	0.0018	0.0000	0.0018
119	636.30	634.00	0.0072	0.0000	0.0072
120	639.00	635.00	0.0054	0.0000	0.0054
121	638.41	635.41	0.0018	0.0000	0.0018
122	638.00	635.00	0.0018	0.0000	0.0018
123	639.37	635.37	0.0090	0.0000	0.0090
124	637.33	634.50	0.0072	0.0000	0.0072
125	639.71	634.00	0.0036	0.0072	0.0108
126	640.00	633.00	0.0000	0.0269	0.0269
127	638.00	632.00	0.0000	0.0305	0.0305
128	638.00	631.00	0.0000	0.0359	0.0359
129	639.00	630.50	0.0197	0.0376	0.0574
130	638.52	629.50	0.0000	0.0574	0.0574
131	638.93	628.00	0.0000	0.0592	0.0592
132	631.15	627.15	0.0000	0.0592	0.0592
133	648.00	644.00	0.0000	0.0361	0.0361
134	657.27	653.27	0.0300	0.0062	0.0361
135	683.62	679.62	0.0062	0.0000	0.0062
136	688.94	684.94	0.0088	0.0000	0.0088
137	684.00	680.00	0.0079	0.0088	0.0167
138	673.70	669.70	0.0053	0.0167	0.0220

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
139	665.44	661.44	0.0132	0.0220	0.0352
140	647.95	643.95	0.0018	0.0352	0.0370
141	649.63	645.63	0.0080	0.0176	0.0256
142	655.77	651.77	0.0035	0.0141	0.0176
143	666.41	662.41	0.0079	0.0062	0.0141
144	676.16	672.16	0.0062	0.0000	0.0062
145	650.00	646.00	0.0116	0.0264	0.0380
146	654.80	650.80	0.0062	0.0203	0.0264
147	663.89	659.89	0.0080	0.0123	0.0203
148	684.50	680.50	0.0123	0.0000	0.0123
149	659.42	655.42	0.0125	0.0212	0.0336
150	682.72	678.72	0.0212	0.0000	0.0212
151	679.20	675.20	0.0176	0.0000	0.0176
152	680.00	676.00	0.0097	0.0000	0.0097
153	642.65	631.50	0.0036	1.5070	1.5106
154	667.28	663.28	0.0160	0.0291	0.0450
155	671.41	667.41	0.0000	0.0114	0.0114
156	678.17	674.17	0.0000	0.0114	0.0114
157	678.92	674.92	0.0018	0.0000	0.0018
158	642.00	630.50	0.0036	1.5265	1.5301
159	674.11	670.11	0.0159	0.0000	0.0159
160	639.27	635.27	0.0000	0.0626	0.0626
161	641.92	636.92	0.0000	0.0256	0.0256
162	644.00	634.50	1.3868	0.0380	1.4248
163	643.00	633.00	0.0036	1.4584	1.4620
164	641.74	631.00	0.0000	1.5106	1.5106
165	643.00	630.00	0.0000	1.5301	1.5301
166	641.00	629.50	0.0000	1.5301	1.5301
167	640.87	629.20	0.0018	1.5390	1.5408
168	639.51	628.50	0.0000	1.5610	1.5610
169	669.64	665.64	0.0070	0.0000	0.0070
170	657.00	653.00	0.0018	0.0070	0.0088
171	650.05	646.05	0.0018	0.0123	0.0141
172	643.48	639.48	0.0026	0.0176	0.0203
173	638.23	626.80	0.0000	1.5698	1.5698
174	657.00	645.64	0.0114	0.0000	0.0114
175	689.00	679.19	0.0114	0.0000	0.0114
176	676.00	669.00	0.0009	0.6361	0.6370
177	675.00	668.00	0.0000	1.1657	1.1657
178	675.00	666.00	0.0000	1.1657	1.1657
179	675.00	665.00	0.0053	1.1692	1.1745
180	668.00	661.00	0.0123	1.1745	1.1868
181	657.50	652.00	0.0018	1.1868	1.1886
182	656.00	650.00	0.0044	1.2044	1.2088
183	656.00	649.00	0.0009	1.2212	1.2220
184	655.00	648.00	0.0026	1.2220	1.2247

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
185	655.00	645.00	0.0062	1.2379	1.2440
186	650.00	640.10	0.0053	1.2555	1.2608
187	636.81	625.80	0.0036	1.2608	1.2643
188	634.90	625.00	0.0000	2.8341	2.8341
189	630.12	620.00	0.0000	3.0244	3.0244
190	633.16	624.00	0.0054	2.8341	2.8395
191	642.00	630.32	0.0229	0.0000	0.0229
192	639.34	635.34	0.0220	0.0000	0.0220
193	661.00	650.50	0.0510	0.0000	0.0510
194	663.00	656.00	0.0581	0.0000	0.0581
195	652.00	645.00	0.0229	0.1091	0.1320
196	660.00	653.00	0.0370	0.0000	0.0370
197	643.00	631.95	0.0035	0.0370	0.0405
198	641.00	630.48	0.0009	0.1725	0.1734
199	640.00	629.51	0.0000	0.1954	0.1954
200	640.00	629.00	0.0361	0.1954	0.2314
201	640.00	628.50	0.0035	0.2543	0.2578
202	657.86	640.44	0.0000	1.7326	1.7326
203	651.68	639.30	0.0000	1.7344	1.7344
204	635.35	627.53	0.0000	0.2086	0.2086
205	627.03	613.90	0.0000	0.1188	0.1188
206	642.00	630.70	0.0176	0.0000	0.0176
207	637.00	626.60	0.0000	0.2754	0.2754
208	692.00	681.50	0.0044	0.0493	0.0537
209	691.63	687.63	0.0035	0.0000	0.0035
210	692.87	688.87	0.0035	0.0000	0.0035
211	692.00	686.00	0.0053	0.0070	0.0123
212	688.97	680.00	0.0035	0.0660	0.0695
213	682.39	678.39	0.0026	0.0695	0.0722
214	678.00	673.10	0.0035	0.0722	0.0757
215	694.00	690.00	0.0150	0.0000	0.0150
216	684.36	672.00	0.0035	0.0906	0.0942
217	691.85	687.85	0.0176	0.0000	0.0176
218	685.00	670.90	0.0035	0.1118	0.1153
219	693.50	689.42	0.0018	0.0000	0.0018
220	692.65	688.63	0.0070	0.0018	0.0088
221	687.02	683.02	0.0026	0.0088	0.0114
222	680.80	676.80	0.0044	0.0114	0.0158
223	688.76	684.76	0.0167	0.0000	0.0167
224	681.00	669.80	0.0018	0.1320	0.1338
225	678.34	669.14	0.0009	0.1478	0.1487
226	675.00	668.49	0.0009	0.1646	0.1654
227	675.00	668.10	0.0000	0.1654	0.1654
228	667.43	663.43	0.0000	0.1654	0.1654
229	660.66	656.66	0.0000	0.1654	0.1654
230	652.07	648.07	0.0000	0.3814	0.3814

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
231	617.00	613.00	0.0000	1.3292	1.3292
232	623.02	619.02	0.0000	1.3292	1.3292
233	634.54	630.54	0.0018	1.2176	1.2194
234	642.74	633.00	0.0018	1.2158	1.2176
235	645.01	634.00	0.0054	1.2104	1.2158
236	646.60	637.50	0.0000	1.2104	1.2104
237	646.27	637.60	0.0000	1.2104	1.2104
238	649.49	645.49	0.0054	0.8236	0.8290
239	654.00	647.00	0.0018	0.8218	0.8236
240	715.79	702.58	0.0202	0.0950	0.1153
241	713.78	701.32	0.0308	0.1153	0.1461
242	707.86	697.69	0.0000	0.2112	0.2112
243	708.74	696.43	0.0255	0.2112	0.2367
244	709.51	694.41	0.0370	0.2367	0.2737
245	697.57	685.41	0.0026	0.2948	0.2974
246	702.25	695.20	0.0211	0.0000	0.0211
247	699.14	684.09	0.0035	0.3344	0.3379
248	693.35	682.77	0.0035	0.3898	0.3934
249	683.16	672.11	0.0018	0.4022	0.4039
250	668.43	660.38	0.0062	0.4171	0.4233
251	690.59	684.04	0.0132	0.0000	0.0132
252	656.00	647.39	0.0000	0.7383	0.7383
253	652.94	646.89	0.0000	0.7383	0.7383
254	628.48	619.55	0.0035	0.8765	0.8800
255	634.67	627.08	0.0158	0.0000	0.0158
256	651.29	640.84	0.0070	0.1100	0.1170
257	679.35	670.87	0.0202	0.0000	0.0202
258	659.57	648.16	0.0044	0.0854	0.0898
259	661.88	652.60	0.0097	0.0387	0.0484
260	685.49	673.84	0.0220	0.0167	0.0387
261	702.55	696.00	0.0167	0.0000	0.0167
262	684.59	677.53	0.0370	0.0000	0.0370
263	666.17	658.54	0.0132	0.0273	0.0405
264	642.59	634.66	0.0035	0.0537	0.0572
265	671.57	665.52	0.0132	0.0000	0.0132
266	638.66	628.22	0.0070	0.0845	0.0915
267	653.78	643.95	0.0079	0.0194	0.0273
268	654.48	647.43	0.0194	0.0000	0.0194
269	653.36	646.31	0.0141	0.0000	0.0141
270	626.58	617.80	0.0106	0.9398	0.9504
271	661.10	652.34	0.0414	0.0000	0.0414
272	627.49	618.69	0.0044	0.9214	0.9258
273	632.66	615.97	0.0114	0.9645	0.9759
274	646.22	640.17	0.0141	0.0000	0.0141
275	626.83	614.51	0.0035	1.0674	1.0710
276	626.86	613.48	0.0158	1.0806	1.0965

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
277	623.97	610.89	0.0000	1.1106	1.1106
278	628.22	622.17	0.0141	0.0000	0.0141
279	629.72	623.67	0.0097	0.0000	0.0097
280	624.65	606.77	0.0000	1.5622	1.5622
281	621.00	607.50	0.0000	0.1737	0.1737
282	680.94	673.59	0.0088	0.0000	0.0088
283	713.91	705.91	0.0370	0.0000	0.0370
284	709.71	699.50	0.0651	0.0000	0.0651
285	676.69	665.28	0.0000	0.0238	0.0238
286	684.35	677.74	0.0678	0.0000	0.0678
287	686.89	679.40	0.0088	0.0000	0.0088
288	681.88	675.31	0.0220	0.0000	0.0220
289	674.27	661.54	0.0000	0.0634	0.0634
290	680.15	662.79	0.0088	0.0326	0.0414
291	678.42	664.04	0.0088	0.0238	0.0326
292	657.93	647.93	0.0000	0.8218	0.8218
293	688.12	680.00	0.0202	0.0000	0.0202
294	685.74	675.28	0.0044	0.0317	0.0361
295	686.10	677.87	0.0114	0.0000	0.0114
296	686.35	674.16	0.0035	0.0422	0.0458
297	686.50	679.94	0.0062	0.0000	0.0062
298	687.19	673.27	0.0044	0.0493	0.0537
299	687.72	680.79	0.0035	0.0000	0.0035
300	683.66	672.05	0.0202	0.0669	0.0871
301	689.48	683.51	0.0132	0.0000	0.0132
302	674.98	667.28	0.0000	0.1399	0.1399
303	688.39	683.19	0.0229	0.0000	0.0229
304	690.09	684.74	0.0299	0.0000	0.0299
305	692.12	678.88	0.0000	1.1782	1.1782
306	677.34	663.81	0.0141	1.2284	1.2424
307	673.34	665.85	0.0317	0.0554	0.0871
308	685.55	677.81	0.0194	0.0000	0.0194
309	683.15	668.86	0.0361	0.0000	0.0361
310	672.84	665.47	0.0088	0.0000	0.0088
311	673.46	666.46	0.0554	0.0000	0.0554
312	652.00	645.00	0.0361	0.0000	0.0361
313	655.00	649.00	0.0000	0.2160	0.2160
314	660.00	656.00	0.0000	0.1620	0.1620
315	665.00	658.50	0.0000	0.1080	0.1080
316	671.00	664.00	0.0540	0.0000	0.0540
317	677.00	670.00	0.0540	0.0000	0.0540
318	670.00	663.00	0.0540	0.0000	0.0540
319	673.00	667.00	0.0540	0.0000	0.0540
320	659.72	648.58	0.0070	1.4686	1.4756
321	652.90	639.66	0.0000	1.7326	1.7326
322	661.52	651.66	0.0000	0.1399	0.1399

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
323	642.14	619.50	0.0000	12.6763	12.6763
324	644.75	634.24	0.0484	0.0748	0.1232
325	669.84	662.79	0.0273	0.0000	0.0273
326	631.39	620.64	0.0053	0.1170	0.1223
327	667.06	660.05	0.0000	0.3150	0.3150
328	687.80	678.10	0.0079	0.0528	0.0607
329	703.09	695.12	0.0185	0.0343	0.0528
330	707.36	699.70	0.0158	0.0185	0.0343
331	712.25	705.20	0.0079	0.0106	0.0185
332	716.88	709.51	0.0106	0.0000	0.0106
333	715.72	708.81	0.0519	0.0000	0.0519
334	665.00	656.25	0.0000	0.3150	0.3150
335	663.00	657.00	0.0000	0.3150	0.3150
336	697.70	677.25	0.0000	0.2543	0.2543
337	714.42	706.45	0.0950	0.0000	0.0950
338	701.95	693.00	0.0220	0.0000	0.0220
339	698.12	683.00	0.0000	0.4145	0.4145
340	699.36	688.00	0.0000	0.3925	0.3925
341	692.05	679.33	0.0000	1.1782	1.1782
342	679.00	658.95	0.0600	0.5387	0.5987
343	676.08	670.00	0.0238	0.0000	0.0238
344	676.08	670.00	0.0220	0.0000	0.0220
345	635.35	614.98	0.0000	12.8849	12.8849
346	700.78	689.42	0.0000	0.3925	0.3925
347	710.14	698.78	0.0334	0.0000	0.0334
348	704.15	692.79	0.0097	0.3494	0.3590
349	709.01	697.65	0.0079	0.0651	0.0730
350	713.82	702.37	0.0000	0.0370	0.0370
351	719.97	708.52	0.0370	0.0000	0.0370
352	717.53	706.17	0.0282	0.0000	0.0282
353	710.67	694.00	0.0202	0.2561	0.2763
354	666.25	650.64	0.0062	1.3824	1.3885
355	675.60	665.60	0.0449	0.0000	0.0449
356	674.28	667.08	0.0801	0.0000	0.0801
357	676.69	669.69	0.0554	0.0000	0.0554
358	656.32	641.44	0.0070	1.5311	1.5381
359	660.14	651.40	0.0132	0.1813	0.1945
360	672.00	665.00	0.0229	0.0000	0.0229
361	685.85	675.46	0.0282	1.1914	1.2196
362	693.00	677.92	0.0132	1.1782	1.1914
363	722.00	715.00	0.0211	0.0000	0.0211
364	719.00	712.00	0.0167	0.0598	0.0766
365	721.00	714.00	0.0378	0.0220	0.0598
366	722.00	715.00	0.0026	0.0194	0.0220
367	733.00	726.00	0.0194	0.0000	0.0194
368	707.00	700.00	0.0088	0.0440	0.0528

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
369	725.00	718.00	0.0185	0.0000	0.0185
370	720.00	713.00	0.0255	0.0000	0.0255
371	713.00	700.00	0.0141	0.0898	0.1038
372	725.00	711.50	0.0035	0.0352	0.0387
373	733.00	723.00	0.0229	0.0000	0.0229
374	720.00	713.00	0.0123	0.0000	0.0123
375	735.00	728.00	0.0440	0.0000	0.0440
376	707.53	696.53	0.0000	0.1734	0.1734
377	713.51	706.51	0.0000	0.0537	0.0537
378	720.85	713.85	0.0202	0.0079	0.0282
379	721.15	714.15	0.0255	0.0000	0.0255
380	726.51	719.51	0.0079	0.0000	0.0079
381	710.66	694.75	0.0000	0.2561	0.2561
382	713.18	703.00	0.0000	0.0405	0.0405
383	726.54	719.54	0.0299	0.0000	0.0299
384	726.84	719.84	0.0290	0.0000	0.0290
385	700.22	685.81	0.0774	0.6863	0.7637
386	699.66	687.25	0.0000	0.6863	0.6863
387	698.53	688.61	0.0543	0.4959	0.5502
388	703.57	693.02	0.0000	0.4959	0.4959
389	716.39	710.00	0.0308	0.0000	0.0308
390	699.69	692.34	0.0000	0.4959	0.4959
391	704.97	695.51	0.0273	0.4378	0.4651
392	706.84	696.28	0.0000	0.4378	0.4378
393	708.51	696.97	0.0000	0.4184	0.4184
394	711.52	697.75	0.0000	0.3991	0.3991
395	718.37	700.29	0.0000	0.1461	0.1461
396	714.19	702.14	0.0114	0.0651	0.0766
397	715.00	702.95	0.0000	0.0651	0.0651
398	741.00	731.00	0.0238	0.0000	0.0238
399	716.82	707.85	0.0000	0.0695	0.0695
400	718.39	709.00	0.0695	0.0000	0.0695
401	730.00	723.00	0.0000	0.2424	0.2424
402	748.00	741.00	0.0466	0.0620	0.1087
403	751.00	744.00	0.0242	0.0378	0.0620
404	762.00	755.00	0.0194	0.0000	0.0194
405	760.00	753.00	0.0185	0.0000	0.0185
406	739.00	732.00	0.0282	0.1056	0.1338
407	744.00	736.00	0.0458	0.0598	0.1056
408	744.00	737.00	0.0000	0.0598	0.0598
409	764.00	757.00	0.0343	0.0000	0.0343
410	762.00	755.00	0.0255	0.0000	0.0255
411	748.00	740.00	0.0414	0.0000	0.0414
412	650.00	638.43	0.0000	0.3814	0.3814
413	715.92	711.00	0.0106	0.0000	0.0106
414	712.20	705.00	0.0194	0.0000	0.0194

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
415	709.79	702.50	0.0194	0.0000	0.0194
416	722.47	715.47	0.0370	0.0000	0.0370
417	719.02	712.02	0.0334	0.0000	0.0334
418	717.45	708.77	0.0132	0.0290	0.0422
419	720.47	707.83	0.0106	0.0299	0.0405
420	716.20	703.53	0.0194	0.0537	0.0730
421	710.00	703.00	0.0070	0.0440	0.0510
422	647.57	639.60	0.0018	0.0000	0.0018
423	650.00	643.00	0.1080	0.0000	0.1080
424	629.82	625.81	0.0018	1.3274	1.3292
425	625.31	609.57	0.0000	13.0037	13.0037
426	621.61	606.67	0.0000	13.2791	13.2791
427	619.19	605.83	0.0000	13.2791	13.2791
428	617.08	604.98	0.0000	13.2791	13.2791
429	617.43	604.14	0.0000	13.2791	13.2791
430	614.23	603.75	0.0000	14.6083	14.6083
431	613.00	603.57	0.0000	14.6083	14.6083
432	611.00	603.16	0.0000	14.6083	14.6083
433	611.23	602.41	0.0000	14.6083	14.6083
434	704.25	688.76	0.2030	4.3357	4.5387
435	657.20	635.85	0.1831	10.7100	10.8931
436	649.22	628.55	0.0000	10.9092	10.9092
437	642.58	627.00	0.0000	10.9092	10.9092
438	688.44	670.33	0.0000	5.2358	5.2358
439	696.60	682.54	0.0000	0.6204	0.6204
440	698.97	686.12	0.6204	0.0000	0.6204
441	691.08	675.45	0.0000	0.6204	0.6204
442	775.00	768.00	3.5921	0.0000	3.5921
443	720.00	713.00	0.4692	2.8993	3.3686
444	805.00	798.00	0.5721	0.0000	0.5721
445	740.00	733.00	1.2714	1.6280	2.8993
446	794.00	787.00	0.0405	0.0000	0.0405
447	777.00	770.00	0.1646	0.1754	0.3401
448	725.00	718.00	0.0601	0.3762	0.4363
449	796.00	791.00	0.6410	0.0000	0.6410
450	757.00	750.00	1.0559	0.0000	1.0559
451	695.00	688.00	2.6405	0.0000	2.6405
452	665.00	648.00	0.7588	2.6405	3.3993
453	735.00	728.00	0.4464	1.1268	1.5732
454	735.00	728.00	0.3762	0.0000	0.3762
455	765.00	758.00	0.4858	0.6410	1.1268
456	680.00	673.00	0.2399	4.3438	4.5837
457	680.00	673.00	0.0161	0.0000	0.0161
458	695.00	688.00	0.4116	0.0000	0.4116
459	615.00	610.50	0.1737	0.0000	0.1737
460	682.86	664.17	0.8906	5.2358	6.1263

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
461	710.00	703.00	0.1813	3.8049	3.9861
462	680.00	673.00	0.2464	0.0000	0.2464
463	651.00	638.00	0.5295	3.6458	4.1752
464	725.00	718.00	0.0000	3.5921	3.5921
465	785.00	779.00	0.1349	0.0000	0.1349
466	782.00	772.00	0.0000	0.1754	0.1754
467	725.00	718.00	0.3496	0.0000	0.3496
468	706.73	694.90	0.0000	4.3357	4.3357
469	695.00	688.00	0.1361	0.0000	0.1361
470	670.00	665.00	0.1728	0.0000	0.1728
471	685.00	678.00	0.0766	0.0000	0.0766
472	685.00	678.00	0.6247	0.0000	0.6247
473	642.54	626.31	0.0000	10.9419	10.9419
474	651.00	627.00	0.0327	0.0000	0.0327
475	680.00	673.00	0.2015	0.1644	0.3659
476	655.00	649.50	0.0832	0.0000	0.0832
477	662.59	648.99	0.0000	0.6819	0.6819
478	624.00	617.00	0.9312	0.0000	0.9312
479	645.00	628.00	0.0000	4.1752	4.1752
480	645.00	623.00	0.8430	4.1752	5.0182
481	625.00	600.00	0.1001	5.0182	5.1182
482	620.00	593.00	0.0000	5.2116	5.2116
483	619.00	600.00	0.0934	0.0000	0.0934
484	600.00	590.00	0.0000	2.2341	2.2341
485	611.00	604.00	1.3029	0.0000	1.3029
486	626.00	619.00	0.2780	0.0000	0.2780
487	622.00	615.00	0.0000	0.2780	0.2780
488	621.06	600.07	0.0000	0.0000	0.0000
489	668.34	664.34	0.0000	0.0000	0.0000
491	620.67	607.00	0.0000	0.0000	0.0000
492	612.00	604.00	0.0000	0.0000	0.0000
493	617.21	603.50	0.0000	0.0000	0.0000
494	621.75	602.00	0.0000	0.0000	0.0000
495	615.51	603.00	0.0000	0.0000	0.0000
496	729.11	722.11	0.0000	0.0000	0.0000
497	655.41	644.22	0.0000	0.0000	0.0000
498	660.78	650.78	0.0000	0.0000	0.0000
499	656.22	645.50	0.0000	0.0000	0.0000

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-1	240	702.58	241	701.32	291.4	0.004	8.0	0.013	1.84	0.1153	34.4
CO-2	241	701.32	242	697.69	852.2	0.004	8.0	0.013	1.95	0.1461	40.6
CO-3	242	697.69	243	696.43	290.7	0.004	8.0	0.013	2.17	0.2112	45.1
CO-4	243	696.43	244	694.41	398.9	0.005	8.0	0.013	2.37	0.2367	45.8
CO-5	239	647.00	238	645.49	401.5	0.004	10.0	0.013	2.80	0.8236	69.2
CO-6	244	694.41	245	685.41	1,382.5	0.007	8.0	0.013	2.70	0.2737	47.6
CO-7	238	645.49	237	637.60	411.9	0.019	10.0	0.013	5.33	0.8290	65.4
CO-8	245	685.41	246	695.20	1,204.2	0.008	8.0	0.013	1.40	0.0211	30.7
CO-9	237	637.60	236	637.50	8.5	0.012	12.0	0.013	4.88	1.2104	54.7
CO-10	245	685.41	247	684.09	317.3	0.004	10.0	0.013	2.31	0.2974	40.5
CO-11	236	637.50	235	634.00	466.8	0.007	12.0	0.013	4.12	1.2104	66.5
CO-12	247	684.09	248	682.77	308.0	0.004	10.0	0.013	2.42	0.3379	41.4
CO-13	235	634.00	234	633.00	295.1	0.003	12.0	0.013	2.99	1.2158	66.9
CO-14	248	682.77	249	672.11	314.3	0.034	10.0	0.013	5.33	0.3934	41.4
CO-15	234	633.00	233	630.54	378.4	0.007	12.0	0.013	3.90	1.2176	58.8
CO-16	249	672.11	250	660.38	321.6	0.036	10.0	0.013	5.51	0.4039	42.2
CO-17	250	660.38	251	684.04	730.2	0.032	8.0	0.013	1.95	0.0132	31.5
CO-18	233	630.54	424	625.81	140.6	0.034	12.0	0.013	7.19	1.2194	59.9
CO-19	424	625.81	232	619.02	202.2	0.034	12.0	0.013	7.36	1.3292	49.9
CO-20	232	619.02	231	613.00	312.8	0.019	12.0	0.013	6.00	1.3292	53.1
CO-21	250	660.38	252	647.39	332.3	0.039	10.0	0.013	5.73	0.4233	59.5
CO-22	231	613.00	430	605.89	258.6	0.027	12.0	0.013	6.84	1.3292	80.6
CO-23	252	647.39	253	646.89	158.8	0.003	10.0	0.013	2.56	0.7383	66.7
CO-24	253	646.89	254	619.55	3,440.3	0.008	10.0	0.013	3.72	0.7383	65.9
CO-25	230	648.07	412	638.43	266.7	0.036	10.0	0.013	5.40	0.3814	45.8
CO-26	412	638.43	237	637.60	309.3	0.003	10.0	0.013	2.10	0.3814	60.6
CO-27	229	656.66	230	648.07	315.5	0.027	10.0	0.013	3.83	0.1654	33.4
CO-28	255	627.08	254	619.55	590.6	0.013	8.0	0.013	1.50	0.0158	52.0
CO-29	228	663.43	229	656.66	460.3	0.015	10.0	0.013	3.08	0.1654	23.6
CO-30	256	640.84	326	620.64	295.6	0.068	8.0	0.013	4.91	0.1170	31.2

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Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-31	227	668.10	228	663.43	339.0	0.014	10.0	0.013	3.01	0.1654	23.8
CO-32	257	670.87	256	640.84	980.6	0.031	8.0	0.013	2.20	0.0202	20.6
CO-33	226	668.49	227	668.10	100.5	0.004	10.0	0.013	1.92	0.1654	27.8
CO-34	258	648.16	256	640.84	303.2	0.024	8.0	0.013	3.14	0.0898	27.4
CO-35	225	669.14	226	668.49	136.6	0.005	8.0	0.013	2.04	0.1487	36.3
CO-36	259	652.60	258	648.16	309.8	0.014	8.0	0.013	2.18	0.0484	22.1
CO-37	224	669.80	225	669.14	134.9	0.005	8.0	0.013	2.00	0.1338	34.8
CO-38	260	673.84	259	652.60	1,053.0	0.020	8.0	0.013	2.30	0.0387	17.6
CO-39	223	684.76	224	669.80	689.2	0.022	6.0	0.013	1.91	0.0167	30.3
CO-40	260	673.84	261	696.00	818.6	0.027	8.0	0.013	1.99	0.0167	13.7
CO-41	262	677.53	258	648.16	1,100.3	0.027	8.0	0.013	2.50	0.0370	20.9
CO-42	222	676.80	226	668.49	423.1	0.020	8.0	0.013	1.75	0.0158	23.6
CO-43	263	658.54	264	634.66	516.9	0.046	8.0	0.013	3.12	0.0405	18.7
CO-44	221	683.02	222	676.80	213.6	0.029	8.0	0.013	1.80	0.0114	9.8
CO-45	265	665.52	264	634.66	750.4	0.041	8.0	0.013	2.12	0.0132	15.0
CO-46	220	688.63	221	683.02	487.0	0.012	8.0	0.013	1.20	0.0088	8.4
CO-47	266	628.22	264	634.66	293.0	0.022	8.0	0.013	2.66	0.0572	23.1
CO-48	219	689.42	220	688.63	193.8	0.004	6.0	0.013	0.54	0.0018	8.3
CO-49	267	643.95	266	628.22	481.0	0.033	8.0	0.013	2.44	0.0273	19.9
CO-50	218	670.90	224	669.80	266.6	0.004	8.0	0.013	1.81	0.1153	33.1
CO-51	268	647.43	267	643.95	694.3	0.005	8.0	0.013	1.15	0.0194	13.4
CO-52	217	687.85	218	670.90	698.4	0.024	6.0	0.013	2.02	0.0176	29.8
CO-53	269	646.31	270	617.80	581.9	0.049	8.0	0.013	2.30	0.0141	52.4
CO-54	272	618.69	271	652.34	1,548.7	0.022	8.0	0.013	2.41	0.0414	57.1
CO-55	216	672.00	218	670.90	232.2	0.005	8.0	0.013	1.79	0.0942	30.5
CO-56	254	619.55	272	618.69	296.6	0.003	12.0	0.013	2.65	0.8800	63.4
CO-57	215	690.00	216	672.00	860.3	0.021	8.0	0.013	1.76	0.0150	19.3
CO-58	272	618.69	270	617.80	309.2	0.003	12.0	0.013	2.67	0.9258	63.9
CO-59	270	617.80	273	615.97	565.7	0.003	12.0	0.013	2.81	0.9504	64.6
CO-60	214	673.10	216	672.00	245.5	0.004	8.0	0.013	1.65	0.0757	27.0

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Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

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CO-61	274	640.17	273	615.97	796.6	0.030	8.0	0.013	1.95	0.0141	54.5
CO-62	213	678.39	214	673.10	185.1	0.029	8.0	0.013	3.13	0.0722	24.3
CO-63	273	615.97	275	614.51	486.5	0.003	12.0	0.013	2.74	0.9759	66.3
CO-64	212	680.00	213	678.39	304.2	0.005	8.0	0.013	1.71	0.0695	23.2
CO-65	266	628.22	275	614.51	553.2	0.025	8.0	0.013	3.19	0.0915	62.9
CO-66	211	686.00	212	680.00	267.7	0.022	8.0	0.013	1.68	0.0123	16.5
CO-67	275	614.51	276	613.48	291.9	0.004	12.0	0.013	2.98	1.0710	66.8
CO-68	210	688.87	211	686.00	157.2	0.018	6.0	0.013	1.12	0.0035	9.8
CO-69	276	613.48	277	610.89	710.4	0.004	12.0	0.013	3.04	1.0965	61.3
CO-70	209	687.63	211	686.00	83.5	0.020	8.0	0.013	1.09	0.0035	7.1
CO-71	278	622.17	277	610.89	673.5	0.017	8.0	0.013	1.60	0.0141	46.8
CO-72	208	681.50	212	680.00	253.8	0.006	8.0	0.013	1.65	0.0537	21.9
CO-73	279	623.67	276	613.48	406.8	0.025	8.0	0.013	1.62	0.0097	54.1
CO-74	277	610.89	280	606.77	365.3	0.011	12.0	0.013	4.70	1.1106	61.0
CO-76	281	607.50	280	606.77	179.1	0.004	12.0	0.013	1.95	0.1737	44.8
CO-77	282	673.59	249	672.11	326.8	0.005	8.0	0.013	0.87	0.0088	30.5
CO-78	283	705.91	247	684.09	1,330.0	0.016	8.0	0.013	2.11	0.0370	34.2
CO-81	207	626.60	426	612.04	307.7	0.047	8.0	0.013	5.53	0.2754	36.5
CO-82	284	699.50	242	697.69	287.2	0.006	8.0	0.013	1.78	0.0651	33.3
CO-83	206	630.70	207	626.60	911.8	0.004	8.0	0.013	1.08	0.0176	29.1
CO-85	345	614.98	425	609.57	1,421.9	0.004	30.0	0.013	5.71	12.8849	63.9
CO-86	289	661.54	17	660.12	285.9	0.005	8.0	0.013	1.62	0.0634	28.6
CO-87	204	627.53	345	626.00	36.4	0.042	8.0	0.013	4.90	0.2086	32.0
CO-88	286	677.74	17	660.12	2,621.1	0.007	8.0	0.013	1.85	0.0678	28.2
CO-89	202	640.44	321	639.66	250.2	0.003	15.0	0.013	3.22	1.7326	63.2
CO-90	201	628.50	207	626.60	240.3	0.008	8.0	0.013	2.85	0.2578	44.9
CO-91	285	665.28	287	679.40	594.4	0.024	8.0	0.013	1.55	0.0088	11.3
CO-92	200	629.00	201	628.50	107.3	0.005	8.0	0.013	2.28	0.2314	45.1
CO-93	288	675.31	289	661.54	1,167.4	0.012	8.0	0.013	1.61	0.0220	17.7
CO-94	199	629.51	200	629.00	270.2	0.002	8.0	0.013	1.56	0.1954	50.2

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Active Scenario: Future Model - Peak Flow (PF=4)
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CO-95	289	661.54	290	662.79	297.0	0.004	8.0	0.013	1.35	0.0414	21.1
CO-96	198	630.48	199	629.51	271.9	0.004	8.0	0.013	1.92	0.1734	48.3
CO-97	197	631.95	198	630.48	272.7	0.005	8.0	0.013	1.47	0.0405	30.1
CO-98	285	665.28	291	664.04	295.7	0.004	8.0	0.013	1.15	0.0238	15.9
CO-99	196	653.00	197	631.95	1,538.4	0.014	8.0	0.013	1.98	0.0370	17.1
CO-100	291	664.04	290	662.79	284.2	0.004	8.0	0.013	1.28	0.0326	18.2
CO-101	292	647.93	239	647.00	246.9	0.004	10.0	0.013	2.80	0.8218	77.6
CO-102	293	680.00	294	675.28	929.8	0.005	8.0	0.013	1.17	0.0202	15.7
CO-103	295	677.87	294	675.28	357.4	0.007	8.0	0.013	1.12	0.0114	13.7
CO-104	294	675.28	296	674.16	282.6	0.004	8.0	0.013	1.27	0.0361	18.9
CO-105	297	679.94	296	679.00	235.5	0.004	8.0	0.013	0.75	0.0062	7.2
CO-106	195	645.00	198	630.48	884.8	0.016	8.0	0.013	3.07	0.1320	36.7
CO-107	296	674.16	298	673.27	174.1	0.005	8.0	0.013	1.49	0.0458	20.6
CO-108	299	680.79	298	680.00	199.7	0.004	8.0	0.013	0.63	0.0035	5.5
CO-109	194	656.00	195	645.00	692.6	0.016	8.0	0.013	2.39	0.0581	25.8
CO-110	298	673.27	300	672.05	278.6	0.004	8.0	0.013	1.48	0.0537	23.5
CO-111	193	650.50	195	645.00	914.5	0.006	8.0	0.013	1.63	0.0510	25.4
CO-112	301	683.51	300	672.05	815.0	0.014	8.0	0.013	1.47	0.0132	17.4
CO-113	300	672.05	302	667.28	751.5	0.006	8.0	0.013	1.94	0.0871	28.7
CO-114	302	667.28	303	683.19	672.1	0.024	8.0	0.013	2.07	0.0229	22.4
CO-115	192	635.34	199	629.51	829.0	0.007	8.0	0.013	1.35	0.0220	33.5
CO-116	302	667.28	304	684.74	1,027.1	0.017	8.0	0.013	2.01	0.0299	23.3
CO-117	302	667.28	322	651.66	966.7	0.016	8.0	0.013	3.11	0.1399	28.7
CO-118	191	630.32	201	628.50	230.8	0.008	8.0	0.013	1.42	0.0229	28.4
CO-119	305	678.88	362	677.92	177.8	0.005	12.0	0.013	3.60	1.1782	62.0
CO-120	361	675.46	306	663.81	1,437.1	0.008	12.0	0.013	4.25	1.2196	58.8
CO-121	190	624.00	189	620.00	256.5	0.016	18.0	0.013	6.69	2.8395	54.5
CO-122	306	663.81	15	656.95	666.8	0.010	12.0	0.013	4.67	1.2424	60.3
CO-123	307	665.85	15	656.95	1,427.9	0.006	8.0	0.013	1.93	0.0871	58.8
CO-124	308	677.81	307	665.85	849.6	0.014	8.0	0.013	1.65	0.0194	18.6

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CO-125	188	625.00	190	624.00	149.2	0.007	18.0	0.013	4.89	2.8341	53.6
CO-126	309	668.86	307	665.85	582.4	0.005	8.0	0.013	1.40	0.0361	21.3
CO-127	187	625.80	188	625.00	137.1	0.006	8.0	0.013	5.60	1.2643	100.0
CO-128	186	640.10	187	625.80	303.8	0.047	8.0	0.013	8.23	1.2608	96.7
CO-129	185	645.00	186	640.10	598.4	0.008	8.0	0.013	5.51	1.2440	96.7
CO-130	310	665.47	306	663.81	543.5	0.003	8.0	0.013	0.76	0.0088	49.3
CO-131	184	648.00	185	645.00	217.1	0.014	8.0	0.013	5.43	1.2247	100.0
CO-132	183	649.00	184	648.00	189.0	0.005	8.0	0.013	5.42	1.2220	100.0
CO-133	182	650.00	183	649.00	389.0	0.003	8.0	0.013	5.36	1.2088	100.0
CO-134	311	666.46	41	639.00	1,530.1	0.018	8.0	0.013	2.46	0.0554	22.1
CO-135	181	652.00	182	650.00	287.4	0.007	8.0	0.013	5.27	1.1886	100.0
CO-136	180	661.00	181	652.00	687.9	0.013	8.0	0.013	5.26	1.1868	100.0
CO-137	179	665.00	180	661.00	388.6	0.010	8.0	0.013	5.21	1.1745	100.0
CO-138	178	666.00	179	665.00	38.0	0.026	8.0	0.013	5.17	1.1657	100.0
CO-139	177	668.00	178	666.00	336.3	0.006	8.0	0.013	5.17	1.1657	100.0
CO-140	176	669.00	177	668.00	368.4	0.003	8.0	0.013	2.82	0.6370	100.0
CO-141	230	648.07	313	649.00	21.7	0.043	8.0	0.013	4.98	0.2160	45.4
CO-142	314	656.00	313	649.00	339.8	0.021	8.0	0.013	3.54	0.1620	37.4
CO-143	315	658.50	314	656.00	143.4	0.017	8.0	0.013	2.96	0.1080	31.4
CO-144	175	679.19	176	669.00	814.3	0.013	8.0	0.013	1.36	0.0114	54.5
CO-145	316	664.00	315	658.50	272.6	0.020	8.0	0.013	2.54	0.0540	23.9
CO-146	174	645.64	186	640.10	667.4	0.008	6.0	0.013	1.22	0.0114	56.4
CO-147	317	670.00	315	658.50	404.5	0.028	8.0	0.013	2.86	0.0540	23.9
CO-148	173	626.80	188	625.00	365.3	0.005	14.0	0.013	3.75	1.5698	63.6
CO-149	318	663.00	314	656.00	396.1	0.018	8.0	0.013	2.43	0.0540	27.2
CO-150	168	628.50	173	626.80	459.3	0.004	14.0	0.013	3.35	1.5610	61.2
CO-151	313	649.00	319	667.00	517.4	0.035	8.0	0.013	3.08	0.0540	30.0
CO-152	172	639.48	168	628.50	391.1	0.028	6.0	0.013	2.21	0.0203	58.6
CO-154	171	646.05	172	639.48	354.8	0.019	6.0	0.013	1.71	0.0141	15.8
CO-155	354	650.64	320	648.58	322.7	0.006	12.0	0.013	3.98	1.3885	64.8

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CO-156	15	656.95	354	650.64	360.7	0.017	12.0	0.013	5.81	1.3375	63.2
CO-157	170	653.00	171	646.05	238.8	0.029	6.0	0.013	1.75	0.0088	12.8
CO-158	321	639.66	203	639.30	105.3	0.003	15.0	0.013	3.34	1.7326	57.4
CO-159	169	665.64	170	653.00	652.8	0.019	6.0	0.013	1.42	0.0070	10.7
CO-160	292	647.93	322	651.66	394.9	0.009	10.0	0.013	2.51	0.1399	50.8
CO-161	203	639.30	323	630.00	377.8	0.025	15.0	0.013	6.98	1.7344	43.9
CO-162	167	629.20	168	628.50	367.2	0.002	14.0	0.013	2.50	1.5408	72.8
CO-163	323	619.50	345	614.98	1,296.4	0.003	30.0	0.013	5.49	12.6763	67.6
CO-164	166	629.50	167	629.20	167.0	0.002	14.0	0.013	2.42	1.5301	82.6
CO-165	43	630.25	324	634.24	897.8	0.004	8.0	0.013	1.89	0.1232	37.9
CO-166	165	630.00	166	629.50	153.0	0.003	14.0	0.013	3.17	1.5301	75.9
CO-167	55	665.37	45	651.86	315.9	0.043	8.0	0.013	2.56	0.0229	18.8
CO-168	46	659.46	324	634.24	889.1	0.028	8.0	0.013	3.16	0.0748	28.2
CO-169	325	662.79	263	658.54	1,005.0	0.004	8.0	0.013	1.20	0.0273	16.4
CO-170	162	634.50	163	633.00	334.4	0.004	14.0	0.013	3.54	1.4248	57.0
CO-171	326	620.64	254	619.55	251.9	0.004	8.0	0.013	1.87	0.1223	63.3
CO-172	252	647.39	334	656.25	262.4	0.034	8.0	0.013	5.09	0.3150	72.2
CO-173	161	636.92	160	635.27	354.0	0.005	8.0	0.013	1.22	0.0256	18.1
CO-174	327	660.05	328	678.10	417.1	0.043	8.0	0.013	3.44	0.0607	34.9
CO-175	158	630.50	165	630.00	200.7	0.002	14.0	0.013	2.83	1.5301	70.4
CO-176	328	678.10	329	695.12	949.3	0.018	8.0	0.013	2.42	0.0528	20.2
CO-177	164	631.00	158	630.50	187.5	0.003	14.0	0.013	2.91	1.5106	71.5
CO-178	329	695.12	330	699.70	756.9	0.006	8.0	0.013	1.45	0.0343	17.8
CO-179	159	670.11	158	630.50	1,038.3	0.038	8.0	0.013	2.18	0.0159	55.3
CO-180	330	699.70	331	705.20	374.2	0.015	8.0	0.013	1.65	0.0185	13.8
CO-181	157	674.92	156	674.17	193.2	0.004	6.0	0.013	0.53	0.0018	9.6
CO-182	331	705.20	332	709.51	705.8	0.006	8.0	0.013	1.03	0.0106	10.3
CO-183	156	674.17	155	667.41	335.7	0.020	6.0	0.013	1.66	0.0114	11.6
CO-184	333	708.81	248	682.77	2,225.1	0.012	8.0	0.013	2.08	0.0519	35.4
CO-185	155	667.41	154	663.28	201.3	0.021	6.0	0.013	1.67	0.0114	18.4

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-186	335	657.00	334	656.25	142.1	0.005	8.0	0.013	2.58	0.3150	51.1
CO-187	153	631.50	164	631.00	162.2	0.003	14.0	0.013	3.09	1.5106	68.7
CO-188	335	657.00	327	660.05	174.6	0.017	8.0	0.013	4.02	0.3150	51.1
CO-189	163	633.00	153	631.50	333.0	0.005	14.0	0.013	3.56	1.4620	62.1
CO-190	336	677.25	327	660.05	2,121.0	0.008	8.0	0.013	2.87	0.2543	46.4
CO-191	154	663.28	153	631.50	943.1	0.034	8.0	0.013	2.89	0.0450	59.0
CO-192	152	676.00	156	674.17	322.2	0.006	6.0	0.013	1.01	0.0097	12.9
CO-193	338	693.00	339	683.00	782.3	0.013	8.0	0.013	1.65	0.0220	34.5
CO-194	151	675.20	154	663.28	1,070.0	0.011	8.0	0.013	1.48	0.0176	14.6
CO-195	339	683.00	340	688.00	493.5	0.010	8.0	0.013	3.48	0.3925	55.8
CO-196	150	678.72	149	655.42	1,104.9	0.021	6.0	0.013	2.02	0.0212	20.0
CO-197	339	683.00	341	679.33	137.1	0.027	8.0	0.013	5.06	0.4145	78.3
CO-198	149	655.42	163	633.00	909.9	0.025	6.0	0.013	2.46	0.0336	61.2
CO-199	341	679.33	305	678.88	140.1	0.003	12.0	0.013	2.91	1.1782	67.7
CO-200	22	651.05	342	658.95	617.7	0.013	8.0	0.013	4.21	0.5987	76.6
CO-201	41	639.00	39	622.00	438.3	0.039	8.0	0.013	3.61	0.0810	26.9
CO-202	148	680.50	147	659.89	736.3	0.028	6.0	0.013	1.90	0.0123	15.3
CO-203	147	659.89	146	650.80	495.2	0.018	6.0	0.013	1.91	0.0203	18.5
CO-204	146	650.80	145	646.00	329.3	0.015	6.0	0.013	1.90	0.0264	21.8
CO-205	145	646.00	162	634.50	453.5	0.025	6.0	0.013	2.57	0.0380	61.9
CO-206	346	689.42	340	688.00	142.3	0.010	8.0	0.013	3.46	0.3925	52.6
CO-207	347	698.78	346	689.42	937.7	0.010	8.0	0.013	1.72	0.0334	35.2
CO-208	144	672.16	143	662.41	374.8	0.026	6.0	0.013	1.49	0.0062	11.9
CO-209	348	692.79	346	689.42	337.1	0.010	8.0	0.013	3.39	0.3590	53.7
CO-210	143	662.41	142	651.77	460.6	0.023	6.0	0.013	1.85	0.0141	15.2
CO-211	349	697.65	348	692.79	485.6	0.010	8.0	0.013	2.17	0.0730	37.8
CO-212	142	651.77	141	645.63	435.8	0.014	6.0	0.013	1.66	0.0176	17.7
CO-213	350	702.37	349	697.65	472.0	0.010	8.0	0.013	1.77	0.0370	19.6
CO-214	141	645.63	161	636.92	486.9	0.018	6.0	0.013	2.02	0.0256	19.7
CO-215	351	708.52	350	702.37	615.0	0.010	8.0	0.013	1.77	0.0370	15.5

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

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CO-216	140	643.95	160	635.27	617.3	0.014	6.0	0.013	2.07	0.0370	25.9
CO-217	352	706.17	349	697.65	867.6	0.010	8.0	0.013	1.63	0.0282	18.6
CO-218	139	661.44	140	643.95	789.8	0.022	6.0	0.013	2.40	0.0352	23.2
CO-219	138	669.70	139	661.44	345.6	0.024	6.0	0.013	2.14	0.0220	20.5
CO-220	137	680.00	138	669.70	508.1	0.020	6.0	0.013	1.87	0.0167	16.8
CO-221	353	694.00	348	692.79	652.5	0.002	8.0	0.013	1.66	0.2763	60.8
CO-222	136	684.94	137	680.00	379.1	0.013	6.0	0.013	1.32	0.0088	13.5
CO-223	355	665.60	354	650.64	1,778.9	0.008	8.0	0.013	1.77	0.0449	57.7
CO-224	135	679.62	134	653.27	1,335.1	0.020	6.0	0.013	1.38	0.0062	16.3
CO-225	134	653.27	133	644.00	562.7	0.016	6.0	0.013	2.18	0.0361	21.0
CO-226	133	644.00	12th Street LS (Downtown)	622.00	549.6	0.040	6.0	0.013	2.98	0.0361	19.2
CO-227	356	667.08	320	648.58	2,402.2	0.008	8.0	0.013	2.04	0.0801	60.5
CO-228	132	627.15	12th Street LS (Downtown)	622.00	244.8	0.021	6.0	0.013	2.74	0.0592	26.3
CO-229	357	669.69	358	641.44	1,728.6	0.016	8.0	0.013	2.38	0.0554	60.0
CO-230	131	628.00	132	627.15	405.8	0.002	6.0	0.013	1.20	0.0592	35.6
CO-231	130	629.50	131	628.00	197.5	0.008	8.0	0.013	1.83	0.0574	25.6
CO-232	129	630.50	130	629.50	383.8	0.003	8.0	0.013	1.26	0.0574	23.0
CO-233	128	631.00	129	630.50	153.7	0.003	8.0	0.013	1.18	0.0359	22.4
CO-234	360	665.00	359	651.40	1,183.8	0.011	8.0	0.013	1.61	0.0229	25.4
CO-235	127	632.00	128	631.00	351.8	0.003	8.0	0.013	1.08	0.0305	18.8
CO-236	362	677.92	361	675.46	471.7	0.005	12.0	0.013	3.56	1.1914	60.6
CO-237	126	633.00	127	632.00	344.4	0.003	8.0	0.013	1.05	0.0269	17.7
CO-238	5	689.00	363	715.00	673.2	0.039	8.0	0.013	2.42	0.0211	29.6
CO-239	125	634.00	126	633.00	179.5	0.006	8.0	0.013	0.99	0.0108	13.3
CO-240	364	712.00	2	688.00	890.5	0.027	8.0	0.013	3.12	0.0766	33.7

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Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

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CO-241	124	634.50	125	634.00	212.1	0.002	8.0	0.013	0.66	0.0072	9.5
CO-242	365	714.00	364	712.00	276.5	0.007	8.0	0.013	1.83	0.0598	22.2
CO-243	123	635.37	126	633.00	321.6	0.007	8.0	0.013	1.05	0.0090	12.6
CO-244	366	715.00	365	714.00	306.0	0.003	8.0	0.013	1.03	0.0220	17.9
CO-245	122	635.00	127	632.00	178.5	0.017	8.0	0.013	0.84	0.0018	11.0
CO-246	367	726.00	366	715.00	807.7	0.014	8.0	0.013	1.63	0.0194	13.4
CO-247	121	635.41	127	632.00	173.3	0.020	8.0	0.013	0.89	0.0018	11.0
CO-248	368	700.00	7	694.00	460.6	0.013	8.0	0.013	2.16	0.0528	30.8
CO-249	120	635.00	128	631.00	150.1	0.027	8.0	0.013	1.40	0.0054	12.7
CO-250	369	718.00	368	700.00	841.0	0.021	8.0	0.013	1.88	0.0185	15.5
CO-251	119	634.00	126	633.00	500.8	0.002	8.0	0.013	0.62	0.0072	13.5
CO-252	370	713.00	368	700.00	1,071.5	0.012	8.0	0.013	1.70	0.0255	16.5
CO-253	118	627.79	117	626.32	289.7	0.005	8.0	0.013	0.55	0.0018	3.9
CO-254	371	700.00	7	694.00	1,023.4	0.006	8.0	0.013	1.99	0.1038	35.2
CO-255	117	626.32	116	618.45	198.6	0.040	6.0	0.013	1.19	0.0018	13.4
CO-256	372	711.50	371	700.00	310.2	0.037	8.0	0.013	2.85	0.0387	22.4
CO-257	115	621.81	116	618.45	445.2	0.008	6.0	0.013	1.54	0.0283	21.1
CO-258	373	723.00	372	711.50	1,099.7	0.010	8.0	0.013	1.56	0.0229	14.7
CO-259	114	623.31	115	621.81	233.6	0.006	6.0	0.013	1.33	0.0213	19.4
CO-260	374	713.00	372	711.50	582.4	0.003	8.0	0.013	0.80	0.0123	14.3
CO-261	113	628.33	114	623.31	342.6	0.015	6.0	0.013	1.41	0.0097	15.1
CO-262	421	703.00	371	700.00	712.0	0.004	8.0	0.013	1.44	0.0510	24.8
CO-263	375	728.00	421	703.00	1,201.3	0.021	8.0	0.013	2.42	0.0440	19.6
CO-264	1	698.09	376	696.53	355.3	0.004	8.0	0.013	1.77	0.1003	33.9
CO-265	112	615.01	111	611.01	237.9	0.017	6.0	0.013	1.59	0.0123	15.7
CO-266	420	703.53	376	696.53	605.5	0.012	8.0	0.013	2.28	0.0730	30.5
CO-267	377	706.51	420	703.53	298.4	0.010	8.0	0.013	1.98	0.0537	21.3
CO-268	111	611.01	110	608.70	275.6	0.008	6.0	0.013	1.48	0.0220	25.3
CO-269	378	713.85	377	706.51	733.8	0.010	8.0	0.013	1.64	0.0282	16.9
CO-270	110	608.70	109	604.00	344.3	0.014	6.0	0.013	2.48	0.0705	30.1

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
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CO-271	379	714.15	377	706.51	764.5	0.010	8.0	0.013	1.59	0.0255	16.6
CO-272	380	719.51	378	713.85	565.7	0.010	8.0	0.013	1.11	0.0079	10.8
CO-273	109	604.00	Meadowlands LS	575.00	387.8	0.075	6.0	0.013	4.51	0.0705	25.4
CO-275	116	618.45	108	614.00	188.1	0.024	6.0	0.013	2.38	0.0318	23.3
CO-276	376	696.53	381	694.75	339.3	0.005	8.0	0.013	2.21	0.1734	43.5
CO-277	108	614.00	110	608.70	259.6	0.020	6.0	0.013	2.45	0.0415	28.8
CO-278	381	694.75	382	703.00	251.3	0.033	8.0	0.013	2.76	0.0405	33.0
CO-279	107	614.58	110	608.70	315.6	0.019	6.0	0.013	1.40	0.0070	21.4
CO-280	419	707.83	382	703.00	385.6	0.013	8.0	0.013	1.97	0.0405	15.8
CO-281	383	719.54	419	707.83	1,171.0	0.010	8.0	0.013	1.67	0.0299	15.8
CO-282	418	708.77	381	694.75	473.6	0.030	8.0	0.013	2.71	0.0422	33.2
CO-283	384	719.84	418	708.77	1,106.7	0.010	8.0	0.013	1.65	0.0290	15.9
CO-284	385	685.81	341	679.33	484.7	0.013	12.0	0.013	4.53	0.7637	59.9
CO-285	105	622.00	104	617.00	414.5	0.012	8.0	0.013	1.22	0.0088	8.6
CO-286	386	687.25	385	685.81	641.4	0.002	12.0	0.013	2.27	0.6863	51.7
CO-287	104	617.00	103	615.00	206.6	0.010	8.0	0.013	1.26	0.0123	13.3
CO-288	387	688.61	386	687.25	444.9	0.003	12.0	0.013	2.42	0.5502	51.7
CO-289	103	615.00	102	609.00	1,139.8	0.005	8.0	0.013	1.42	0.0370	16.8
CO-290	388	693.02	390	692.34	257.6	0.003	12.0	0.013	2.23	0.4959	52.6
CO-291	102	609.00	101	608.00	117.7	0.008	8.0	0.013	1.68	0.0370	16.3
CO-292	389	710.00	388	693.02	1,344.6	0.013	8.0	0.013	1.83	0.0308	41.3
CO-293	101	608.00	100	607.00	152.9	0.007	8.0	0.013	1.53	0.0370	19.8
CO-294	100	607.00	99	604.00	533.6	0.006	8.0	0.013	1.75	0.0695	24.3
CO-295	99	604.00	98	600.83	341.8	0.009	8.0	0.013	2.24	0.0889	30.4
CO-296	390	692.34	387	692.22	161.6	0.001	12.0	0.013	1.37	0.4959	48.3
CO-297	98	600.83	97	600.00	397.2	0.002	8.0	0.013	1.34	0.0959	31.5
CO-298	391	695.51	388	693.02	1,082.9	0.002	12.0	0.013	2.08	0.4651	45.2
CO-299	97	600.00	96	597.00	421.0	0.007	8.0	0.013	2.14	0.1047	28.3
CO-300	392	696.28	391	695.51	286.3	0.003	12.0	0.013	2.17	0.4378	43.6

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CO-301	96	597.00	95	592.25	458.7	0.010	8.0	0.013	2.50	0.1144	27.3
CO-302	393	696.97	392	696.28	250.7	0.003	12.0	0.013	2.16	0.4184	41.3
CO-303	95	592.25	Meadowlands LS	575.00	518.3	0.033	8.0	0.013	3.78	0.1144	24.1
CO-304	394	697.75	393	696.97	281.7	0.003	12.0	0.013	2.14	0.3991	40.1
CO-305	106	619.36	94	614.07	439.9	0.012	6.0	0.013	1.59	0.0185	17.9
CO-306	395	700.29	394	697.75	850.9	0.003	10.0	0.013	1.69	0.1461	38.4
CO-307	94	614.07	100	607.00	458.6	0.015	6.0	0.013	1.92	0.0255	25.2
CO-308	396	702.14	395	700.29	698.9	0.003	10.0	0.013	1.34	0.0766	25.7
CO-309	397	702.95	396	702.14	269.9	0.003	10.0	0.013	1.34	0.0651	20.7
CO-310	93	617.16	99	604.00	836.4	0.016	6.0	0.013	1.68	0.0158	24.6
CO-311	92	615.00	91	604.57	476.8	0.022	6.0	0.013	1.43	0.0062	10.7
CO-312	398	731.00	397	702.95	849.2	0.033	8.0	0.013	2.36	0.0238	18.7
CO-313	91	604.57	96	597.00	216.8	0.035	6.0	0.013	1.92	0.0097	25.2
CO-314	90	635.00	89	634.00	343.2	0.003	8.0	0.013	1.81	0.1849	41.7
CO-315	399	707.85	395	700.29	435.5	0.017	8.0	0.013	2.60	0.0695	29.6
CO-316	89	634.00	88	630.05	411.2	0.010	8.0	0.013	2.80	0.1849	35.3
CO-317	88	630.05	87	625.84	523.1	0.008	8.0	0.013	2.62	0.1849	36.1
CO-318	400	709.00	399	707.85	271.3	0.004	8.0	0.013	1.58	0.0695	23.7
CO-319	87	625.84	189	620.00	375.6	0.016	8.0	0.013	3.32	0.1849	68.5
CO-320	86	669.00	179	665.00	760.4	0.005	6.0	0.013	0.03	0.0036	100.0
CO-321	85	675.00	177	668.00	890.7	0.008	8.0	0.013	2.34	0.5287	100.0
CO-322	401	723.00	394	697.75	1,998.2	0.013	8.0	0.013	3.32	0.2424	51.0
CO-323	84	682.00	85	675.00	564.1	0.012	8.0	0.013	4.02	0.5146	81.7
CO-324	402	741.00	401	723.00	1,418.8	0.013	8.0	0.013	2.65	0.1087	35.4
CO-325	83	686.00	84	682.00	209.2	0.019	8.0	0.013	4.38	0.3834	58.8
CO-326	403	744.00	402	741.00	790.9	0.004	8.0	0.013	1.47	0.0620	26.2
CO-327	82	686.50	83	686.00	151.9	0.003	8.0	0.013	2.23	0.3808	62.6
CO-328	404	755.00	403	744.00	836.8	0.013	8.0	0.013	1.61	0.0194	18.0
CO-329	81	687.00	82	686.50	133.5	0.004	8.0	0.013	2.34	0.3755	68.8

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FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-330	405	753.00	403	744.00	588.3	0.015	8.0	0.013	1.66	0.0185	17.9
CO-331	80	688.00	83	686.00	320.5	0.006	8.0	0.013	0.67	0.0026	29.5
CO-332	406	732.00	401	723.00	1,155.9	0.008	8.0	0.013	2.36	0.1338	37.0
CO-333	407	736.00	406	732.00	664.2	0.006	8.0	0.013	2.02	0.1056	29.8
CO-334	78	661.50	79	659.00	324.9	0.008	8.0	0.013	2.26	0.1153	29.5
CO-335	408	737.00	407	736.00	270.9	0.004	8.0	0.013	1.44	0.0598	26.1
CO-336	77	662.00	78	661.50	50.3	0.010	8.0	0.013	2.44	0.1100	28.7
CO-337	409	757.00	408	737.00	1,140.8	0.018	8.0	0.013	2.12	0.0343	19.8
CO-338	76	665.00	77	662.00	485.5	0.006	8.0	0.013	1.54	0.0405	22.9
CO-339	410	755.00	408	737.00	1,141.4	0.016	8.0	0.013	1.86	0.0255	18.7
CO-340	75	669.00	76	665.00	475.3	0.008	8.0	0.013	1.63	0.0343	16.5
CO-341	411	740.00	397	702.95	1,072.5	0.035	8.0	0.013	2.83	0.0414	20.8
CO-342	74	672.00	75	669.00	401.4	0.007	8.0	0.013	1.46	0.0273	14.8
CO-346	413	711.00	394	697.75	639.1	0.021	8.0	0.013	1.56	0.0106	34.0
CO-347	414	705.00	393	696.97	610.2	0.013	8.0	0.013	1.61	0.0194	36.3
CO-348	415	702.50	392	696.28	607.9	0.010	8.0	0.013	1.47	0.0194	37.3
CO-349	73	698.00	72	696.00	255.4	0.008	6.0	0.013	0.83	0.0035	9.6
CO-350	416	715.47	4	703.96	1,151.0	0.010	8.0	0.013	1.77	0.0370	17.8
CO-351	72	696.00	71	682.00	576.3	0.024	6.0	0.013	1.68	0.0097	13.9
CO-352	417	712.02	3	700.75	1,127.0	0.010	8.0	0.013	1.73	0.0334	17.9
CO-353	71	682.00	70	674.00	390.1	0.021	8.0	0.013	1.89	0.0202	13.3
CO-354	422	639.60	203	639.30	133.7	0.002	8.0	0.013	0.42	0.0018	76.1
CO-355	70	674.00	69	672.22	263.7	0.007	8.0	0.013	1.45	0.0299	17.8
CO-356	423	643.00	424	625.81	1,116.5	0.015	8.0	0.013	2.83	0.1080	60.0
CO-357	205	613.90	425	612.00	43.1	0.044	8.0	0.013	4.23	0.1188	23.9
CO-358	426	606.67	427	605.83	294.4	0.003	30.0	0.013	4.19	13.2791	100.0
CO-359	427	605.83	428	604.98	300.8	0.003	30.0	0.013	4.19	13.2791	100.0
CO-360	68	691.50	69	672.22	1,223.9	0.016	6.0	0.013	1.73	0.0176	22.0
CO-361	428	604.98	429	604.14	212.1	0.004	30.0	0.013	4.19	13.2791	100.0
CO-362	429	604.14	430	603.75	203.9	0.002	30.0	0.013	4.19	13.2791	100.0

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-363	67	686.00	66	671.00	1,226.7	0.012	6.0	0.013	1.59	0.0176	23.0
CO-364	430	603.75	431	603.57	84.1	0.002	30.0	0.013	4.60	14.6083	100.0
CO-365	431	603.57	432	603.16	317.5	0.001	30.0	0.013	4.60	14.6083	100.0
CO-366	69	672.22	66	671.00	273.5	0.004	8.0	0.013	1.46	0.0502	21.7
CO-367	66	671.00	77	662.00	275.9	0.033	8.0	0.013	3.24	0.0695	25.4
CO-368	432	603.16	433	602.41	556.6	0.001	30.0	0.013	4.60	14.6083	82.4
CO-369	433	602.41	Justin Treatment Plant	596.00	189.0	0.034	30.0	0.013	13.44	14.6083	51.1
CO-370	65	684.00	208	681.50	426.9	0.006	8.0	0.013	1.34	0.0273	17.4
CO-371	434	688.76	438	670.33	2,927.0	0.006	21.0	0.013	5.37	4.5387	58.2
CO-372(1)	438	670.33	460	664.17	1,000.5	0.006	21.0	0.013	5.51	5.2358	62.9
CO-372(2)	460	664.17	435	635.85	4,596.4	0.006	21.0	0.013	5.69	6.1263	72.4
CO-373	64	686.50	65	684.00	448.6	0.006	8.0	0.013	1.14	0.0167	13.1
CO-374	435	635.85	436	628.55	1,213.7	0.006	30.0	0.013	6.57	10.8931	62.5
CO-375	63	691.00	64	686.50	258.3	0.017	8.0	0.013	1.20	0.0053	8.9
CO-376	436	628.55	437	627.00	630.3	0.002	30.0	0.013	4.63	10.9092	62.6
CO-377	62	688.00	64	686.50	95.2	0.016	8.0	0.013	0.82	0.0018	7.6
CO-378(1)	437	627.00	473	626.31	134.1	0.005	30.0	0.013	6.21	10.9092	55.6
CO-378(2)	473	626.31	323	619.50	1,317.2	0.005	30.0	0.013	6.21	10.9419	62.0
CO-379	61	691.00	60	686.00	484.7	0.010	8.0	0.013	1.24	0.0106	10.2
CO-380	240	702.58	337	706.45	884.6	0.004	8.0	0.013	1.74	0.0950	30.6
CO-381	60	686.00	59	683.50	313.1	0.008	8.0	0.013	1.35	0.0194	12.1
CO-382	280	606.77	Timberbrooks LS	606.50	58.8	0.005	15.0	0.013	3.66	1.5622	51.4
CO-383	59	683.50	208	681.50	258.1	0.008	8.0	0.013	1.39	0.0220	16.3
CO-384	439	682.54	441	675.45	178.5	0.040	15.0	0.013	6.15	0.6204	24.6
CO-385	441	675.45	438	670.33	345.8	0.015	15.0	0.013	4.34	0.6204	57.6
CO-386	58	689.97	60	686.00	174.0	0.023	8.0	0.013	0.94	0.0018	7.6
CO-387	440	686.12	439	682.54	300.9	0.012	15.0	0.013	4.02	0.6204	27.9

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Conduit Table

Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-388	57	681.00	56	668.31	413.5	0.031	8.0	0.013	1.83	0.0114	7.7
CO-390	56	668.31	55	665.37	237.4	0.012	8.0	0.013	1.35	0.0114	10.8
CO-392	54	678.00	55	665.37	306.6	0.041	8.0	0.013	1.88	0.0088	10.3
CO-394	53	677.22	52	666.26	424.4	0.026	8.0	0.013	1.76	0.0123	10.1
CO-396	51	672.00	52	666.26	215.7	0.027	8.0	0.013	1.14	0.0026	7.6
CO-398	50	681.00	49	674.00	385.5	0.018	8.0	0.013	1.49	0.0106	9.3
CO-401	49	674.00	225	669.14	252.1	0.019	8.0	0.013	1.68	0.0141	22.9
CO-408	47	676.59	46	659.46	1,248.2	0.014	8.0	0.013	1.91	0.0326	19.3
CO-410	48	677.33	45	651.86	997.6	0.026	8.0	0.013	2.01	0.0185	18.2
CO-413	46	659.46	344	670.00	702.0	0.015	8.0	0.013	1.75	0.0220	17.9
CO-414	343	670.00	45	651.86	985.0	0.018	8.0	0.013	1.92	0.0238	18.9
CO-416	44	629.32	204	627.53	373.1	0.005	8.0	0.013	2.24	0.2086	41.3
CO-418	45	651.86	43	630.25	914.1	0.024	8.0	0.013	3.08	0.0854	33.8
CO-420	43	630.25	44	629.32	188.0	0.005	8.0	0.013	2.27	0.2086	42.9
CO-422	52	666.26	42	647.00	256.6	0.075	8.0	0.013	2.81	0.0167	8.6
CO-424	42	647.00	41	639.00	365.7	0.022	8.0	0.013	1.84	0.0167	17.5
CO-426	312	645.00	40	641.95	208.3	0.015	8.0	0.013	2.02	0.0361	14.7
CO-428	40	641.95	39	622.00	373.0	0.053	8.0	0.013	3.17	0.0361	22.8
CO-430	39	622.00	205	613.90	413.0	0.020	8.0	0.013	3.18	0.1188	25.9
CO-431	38	621.00	93	617.16	148.3	0.026	6.0	0.013	1.15	0.0026	10.7
CO-432	37	621.00	106	619.36	208.5	0.008	6.0	0.013	0.68	0.0018	10.9
CO-433	36	624.00	108	614.00	405.8	0.025	6.0	0.013	1.60	0.0079	17.8
CO-434	35	624.00	106	619.36	483.3	0.010	6.0	0.013	1.18	0.0088	13.9
CO-435	34	626.99	112	615.01	303.4	0.039	12.0	0.013	1.64	0.0070	5.5
CO-436	33	662.09	183	649.00	1,015.0	0.013	6.0	0.013	1.45	0.0123	56.7
CO-437	32	669.74	182	650.00	1,097.2	0.018	6.0	0.013	1.76	0.0158	57.6
CO-438	31	649.81	171	646.05	291.6	0.013	6.0	0.013	0.99	0.0035	10.7
CO-439	30	641.00	172	639.48	265.3	0.006	6.0	0.013	0.76	0.0036	12.6
CO-440	29	658.29	28	638.00	776.5	0.026	6.0	0.013	1.58	0.0071	10.7
CO-441	28	638.00	27	637.33	55.4	0.012	6.0	0.013	1.28	0.0089	10.8

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CO-442	27	637.33	167	629.20	165.0	0.049	6.0	0.013	2.09	0.0089	55.7
CO-443	26	656.00	185	645.00	726.4	0.015	6.0	0.013	1.57	0.0132	56.9
CO-444	25	639.27	173	626.80	539.7	0.023	6.0	0.010	1.94	0.0088	55.6
CO-445	24	633.00	131	628.00	139.7	0.036	8.0	0.013	1.11	0.0018	17.2
CO-446	23	632.98	129	630.50	282.6	0.009	8.0	0.013	0.68	0.0018	14.6
CO-447	160	635.27	12th Street LS (Downtown)	622.00	328.5	0.040	8.0	0.013	3.39	0.0626	17.4
CO-448(1)	22	651.05	477	648.99	743.5	0.003	10.0	0.013	2.35	0.5987	71.5
CO-448(2)	477	648.99	292	647.93	381.5	0.003	10.0	0.013	2.40	0.6819	76.3
CO-449	21	641.91	358	641.44	147.6	0.003	12.0	0.013	2.91	1.4756	100.0
CO-450	358	641.44	202	640.44	347.3	0.003	12.0	0.013	3.03	1.5381	90.1
CO-452	20	696.00	19	693.50	751.8	0.003	8.0	0.013	2.18	0.3271	56.6
CO-453	19	693.50	18	688.75	321.3	0.015	8.0	0.013	3.82	0.3271	54.5
CO-454	17	660.12	359	651.40	1,003.1	0.009	8.0	0.013	2.58	0.1584	36.2
CO-455	359	651.40	202	640.44	551.3	0.020	8.0	0.013	3.68	0.1945	69.0
CO-456	18	688.75	81	687.00	325.0	0.005	8.0	0.013	2.71	0.3755	62.9
CO-461(1)	16	683.00	475	673.00	1,603.5	0.006	8.0	0.013	2.31	0.1644	45.3
CO-461(2)	475	673.00	342	658.95	2,244.4	0.006	8.0	0.013	2.85	0.3659	61.9
CO-462	320	648.58	21	641.91	866.7	0.008	12.0	0.013	4.34	1.4756	82.3
CO-464	14	677.74	285	665.28	1,010.6	0.012	8.0	0.013	1.46	0.0150	12.5
CO-465	79	659.00	12th Street LS (Private)	645.00	403.8	0.035	8.0	0.013	3.92	0.1223	24.8
CO-466	13	636.61	12	626.00	1,177.1	0.009	8.0	0.013	0.85	0.0036	6.1
CO-467	12	626.00	114	623.31	227.5	0.012	8.0	0.013	1.14	0.0072	10.5
CO-468	11	635.83	12	626.00	1,238.6	0.008	8.0	0.013	0.81	0.0036	6.2
CO-469	10	611.22	9	600.00	731.6	0.015	10.0	0.013	1.76	0.0240	9.0
CO-470	9	600.00	8	597.00	587.0	0.005	18.0	0.013	1.10	0.0240	28.0

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CO-471	8	597.00	Justin Treatment Plant	596.00	132.8	0.008	24.0	0.013	5.14	3.0484	35.8
CO-474	425	609.57	426	606.67	473.4	0.006	30.0	0.013	6.90	13.0037	80.5
CO-475	189	620.00	8	597.00	298.0	0.077	18.0	0.013	12.11	3.0244	41.2
CO-476	7	694.00	6	692.50	512.8	0.003	8.0	0.013	1.73	0.1566	41.5
CO-477	6	692.50	5	689.00	1,067.3	0.003	8.0	0.013	1.81	0.1566	43.9
CO-478	4	703.96	1	698.09	835.9	0.007	8.0	0.013	1.74	0.0519	24.6
CO-479	5	689.00	2	688.00	386.2	0.003	8.0	0.013	1.71	0.1778	45.4
CO-480	2	688.00	336	677.25	291.3	0.037	8.0	0.013	4.96	0.2543	35.8
CO-481	3	700.75	1	698.09	564.1	0.005	8.0	0.013	1.47	0.0484	25.1
CO-482	381	694.75	353	694.00	162.1	0.005	8.0	0.013	2.33	0.2561	59.0
CO-483	464	718.00	456	673.00	3,406.4	0.013	15.0	0.013	6.64	3.5921	80.8
CO-484(1)	443	713.00	461	703.00	1,147.3	0.009	18.0	0.013	5.63	3.3686	61.3
CO-484(2)(1)	461	703.00	468	694.90	932.8	0.009	18.0	0.013	5.85	3.9861	82.0
CO-484(2)(2)	468	694.90	434	688.76	708.0	0.009	15.0	0.013	5.47	4.3357	91.7
CO-485	444	798.00	445	733.00	3,754.3	0.017	8.0	0.013	4.68	0.5721	83.4
CO-486	445	733.00	443	713.00	2,582.5	0.008	15.0	0.013	5.13	2.8993	69.5
CO-487(1)	446	787.00	466	772.00	1,496.7	0.010	8.0	0.013	1.82	0.0405	29.2
CO-487(2)	466	772.00	447	770.00	511.4	0.004	8.0	0.013	1.99	0.1754	46.2
CO-488	447	770.00	456	673.00	7,808.9	0.012	8.0	0.013	3.62	0.3401	75.5
CO-489	448	718.00	461	703.00	2,042.7	0.007	8.0	0.013	3.16	0.4363	79.4
CO-490	455	758.00	453	728.00	3,435.9	0.009	10.0	0.013	4.21	1.1268	85.6
CO-491	450	750.00	445	733.00	4,077.0	0.004	12.0	0.013	3.18	1.0559	74.1
CO-492	451	688.00	452	648.00	3,066.6	0.013	15.0	0.013	6.17	2.6405	71.8
CO-493(1)	452	648.00	463	638.00	2,294.5	0.004	18.0	0.013	4.32	3.3993	65.6
CO-493(2)	463	638.00	479	628.00	2,274.3	0.004	21.0	0.013	4.59	4.1752	56.9

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CO-495	453	728.00	Soutwest ETJ LS	723.00	1,858.5	0.003	10.0	0.013	4.46	1.5732	91.6
CO-496	454	728.00	448	718.00	2,028.8	0.005	8.0	0.013	2.62	0.3762	59.8
CO-497	449	791.00	455	758.00	3,220.1	0.010	8.0	0.013	3.90	0.6410	79.9
CO-498	456	673.00	435	635.85	2,699.9	0.014	15.0	0.013	7.02	4.5837	92.6
CO-499	457	673.00	436	628.55	1,440.5	0.031	8.0	0.013	2.04	0.0161	55.3
CO-500	458	688.00	456	673.00	1,524.1	0.010	8.0	0.013	3.49	0.4116	78.2
CO-501	459	610.50	281	607.50	710.1	0.004	12.0	0.013	1.97	0.1737	23.1
CO-502	462	673.00	463	638.00	2,294.2	0.015	8.0	0.013	3.57	0.2464	71.5
CO-503	442	768.00	464	718.00	5,429.8	0.009	15.0	0.013	5.71	3.5921	75.2
CO-504	466	772.00	465	779.00	1,610.0	0.004	8.0	0.013	1.92	0.1349	38.2
CO-505	467	718.00	468	694.90	1,438.6	0.016	8.0	0.013	4.01	0.3496	75.9
CO-506	469	688.00	386	687.25	1,306.5	0.001	12.0	0.013	0.90	0.1361	45.7
CO-507	471	678.00	438	670.33	239.6	0.032	12.0	0.013	3.15	0.0766	57.0
CO-508	470	665.00	342	658.95	1,684.8	0.004	8.0	0.013	1.92	0.1728	55.3
CO-509	472	678.00	176	669.00	1,604.9	0.006	8.0	0.013	2.77	0.6247	100.0
CO-510	474	627.00	473	626.31	61.0	0.011	12.0	0.013	1.69	0.0327	84.9
CO-511	476	649.50	477	648.99	569.4	0.001	8.0	0.013	0.95	0.0832	68.4
CO-512	478	617.00	484	590.00	4,651.4	0.006	10.0	0.013	3.44	0.9312	85.8
CO-513	479	628.00	480	623.00	1,166.6	0.004	21.0	0.013	4.55	4.1752	61.1
CO-514	480	623.00	481	600.00	5,501.6	0.004	21.0	0.013	4.68	5.0182	65.6
CO-515	481	600.00	482	593.00	1,674.0	0.004	21.0	0.013	4.70	5.1182	83.0
CO-516	482	593.00	North ETJ	592.00	133.2	0.008	15.0	0.013	6.57	5.2116	94.7
CO-517	483	600.00	482	593.00	913.7	0.008	8.0	0.013	2.12	0.0934	63.0
CO-519	485	604.00	484	590.00	2,998.4	0.005	12.0	0.013	3.46	1.3029	84.7
CO-520	484	590.00	Denton Creek SS	589.00	171.3	0.006	12.0	0.013	4.40	2.2341	89.7
CO-521	486	619.00	487	615.00	1,826.2	0.002	12.0	0.013	1.78	0.2780	30.9
CO-522	487	615.00	280	606.77	274.1	0.030	12.0	0.013	4.52	0.2780	46.7

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Future Model - Peak Flow (PF=4)
FlexTable: Outfall Table

Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Flow (Total Out) (MGD)
Meadowlands LS	600.74	575.00	0.1849
12th Street LS (Private)	666.05	645.00	0.1223
12th Street LS (Downtown)	637.00	622.00	0.1579
Timberbrooks LS	626.50	606.50	1.5622
Justin Treatment Plant	616.27	596.00	17.6567
Soutwest ETJ LS	730.00	723.00	1.5732
Denton Creek SS	600.00	589.00	2.2341
North ETJ	620.00	592.00	5.2116

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Infrastructure Upgrades in Future Conditions
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
1	710.15	698.09	0.0000	0.1003	0.1003
2	697.00	688.00	0.0000	0.2543	0.2543
3	713.23	700.75	0.0150	0.0334	0.0484
4	715.75	703.96	0.0150	0.0370	0.0519
5	699.00	689.00	0.0000	0.1778	0.1778
6	701.00	692.50	0.0000	0.1566	0.1566
7	701.00	694.00	0.0000	0.1566	0.1566
8	616.65	597.00	0.0000	3.0484	3.0484
9	624.36	600.00	0.0000	0.0240	0.0240
10	615.22	611.22	0.0240	0.0000	0.0240
11	639.83	635.83	0.0036	0.0000	0.0036
12	630.00	626.00	0.0000	0.0072	0.0072
13	640.61	636.61	0.0036	0.0000	0.0036
14	684.46	677.74	0.0150	0.0000	0.0150
15	665.40	656.95	0.0079	1.3296	1.3375
16	690.00	683.00	0.1644	0.0000	0.1644
17	672.00	660.12	0.0273	0.1311	0.1584
18	695.45	688.75	0.0484	0.3271	0.3755
19	700.00	693.50	0.0000	0.3271	0.3271
20	702.00	696.00	0.3271	0.0000	0.3271
21	655.88	641.91	0.0000	1.4756	1.4756
22	671.67	651.05	0.0000	0.5987	0.5987
23	636.98	632.98	0.0018	0.0000	0.0018
24	637.85	633.00	0.0018	0.0000	0.0018
25	643.27	639.27	0.0088	0.0000	0.0088
26	663.00	656.00	0.0132	0.0000	0.0132
27	641.33	637.33	0.0000	0.0089	0.0089
28	642.00	638.00	0.0018	0.0071	0.0089
29	662.29	658.29	0.0071	0.0000	0.0071
30	645.00	641.00	0.0036	0.0000	0.0036
31	653.81	649.81	0.0035	0.0000	0.0035
32	681.00	669.74	0.0158	0.0000	0.0158
33	673.00	662.09	0.0123	0.0000	0.0123
34	630.99	626.99	0.0070	0.0000	0.0070
35	628.00	624.00	0.0088	0.0000	0.0088
36	628.00	624.00	0.0079	0.0000	0.0079
37	625.00	621.00	0.0018	0.0000	0.0018
38	625.00	621.00	0.0026	0.0000	0.0026
39	626.00	622.00	0.0018	0.1170	0.1188
40	645.95	641.95	0.0000	0.0361	0.0361
41	646.00	639.00	0.0088	0.0722	0.0810
42	654.00	647.00	0.0000	0.0167	0.0167
43	639.22	630.25	0.0000	0.2086	0.2086
44	635.02	629.32	0.0000	0.2086	0.2086
45	664.58	651.86	0.0202	0.0651	0.0854
46	671.94	659.46	0.0202	0.0546	0.0748

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Infrastructure Upgrades in Future Conditions
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
47	683.37	676.59	0.0326	0.0000	0.0326
48	683.31	677.33	0.0185	0.0000	0.0185
49	680.62	674.00	0.0035	0.0106	0.0141
50	685.00	681.00	0.0106	0.0000	0.0106
51	679.25	672.00	0.0026	0.0000	0.0026
52	670.26	666.26	0.0018	0.0150	0.0167
53	681.22	677.22	0.0123	0.0000	0.0123
54	682.00	678.00	0.0088	0.0000	0.0088
55	669.37	665.37	0.0026	0.0202	0.0229
56	672.31	668.31	0.0000	0.0114	0.0114
57	685.00	681.00	0.0114	0.0000	0.0114
58	693.97	689.97	0.0018	0.0000	0.0018
59	692.00	683.50	0.0026	0.0194	0.0220
60	693.50	686.00	0.0070	0.0123	0.0194
61	695.00	691.00	0.0106	0.0000	0.0106
62	692.00	688.00	0.0018	0.0000	0.0018
63	695.00	691.00	0.0053	0.0000	0.0053
64	693.29	686.50	0.0097	0.0070	0.0167
65	691.97	684.00	0.0106	0.0167	0.0273
66	675.00	671.00	0.0018	0.0678	0.0695
67	689.00	686.00	0.0176	0.0000	0.0176
68	695.50	691.50	0.0176	0.0000	0.0176
69	676.19	672.22	0.0026	0.0475	0.0502
70	678.00	674.00	0.0097	0.0202	0.0299
71	686.09	682.00	0.0106	0.0097	0.0202
72	700.00	696.00	0.0062	0.0035	0.0097
73	702.00	698.00	0.0035	0.0000	0.0035
74	681.64	672.00	0.0273	0.0000	0.0273
75	684.00	669.00	0.0070	0.0273	0.0343
76	680.71	665.00	0.0062	0.0343	0.0405
77	673.00	662.00	0.0000	0.1100	0.1100
78	673.00	661.50	0.0053	0.1100	0.1153
79	670.00	659.00	0.0070	0.1153	0.1223
80	692.64	688.00	0.0026	0.0000	0.0026
81	697.00	687.00	0.0000	0.3755	0.3755
82	696.89	686.50	0.0053	0.3755	0.3808
83	695.07	686.00	0.0000	0.3834	0.3834
84	692.67	682.00	0.1312	0.3834	0.5146
85	686.04	675.00	0.0141	0.5146	0.5287
86	676.00	669.00	0.0036	0.0000	0.0036
87	629.75	625.84	0.0000	0.1849	0.1849
88	634.05	630.05	0.0000	0.1849	0.1849
89	638.00	634.00	0.0000	0.1849	0.1849
90	639.00	635.00	0.1849	0.0000	0.1849
91	608.57	604.57	0.0035	0.0062	0.0097
92	619.26	615.00	0.0062	0.0000	0.0062

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Infrastructure Upgrades in Future Conditions
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
93	621.16	617.16	0.0132	0.0026	0.0158
94	618.07	614.07	0.0070	0.0185	0.0255
95	596.25	592.25	0.0000	0.1144	0.1144
96	604.14	597.00	0.0000	0.1144	0.1144
97	604.00	600.00	0.0088	0.0959	0.1047
98	604.83	600.83	0.0070	0.0889	0.0959
99	615.32	604.00	0.0035	0.0854	0.0889
100	613.82	607.00	0.0070	0.0625	0.0695
101	613.00	608.00	0.0000	0.0370	0.0370
102	612.36	609.00	0.0000	0.0370	0.0370
103	617.60	615.00	0.0246	0.0123	0.0370
104	623.40	617.00	0.0035	0.0088	0.0123
105	630.59	622.00	0.0088	0.0000	0.0088
106	623.36	619.36	0.0079	0.0106	0.0185
107	618.58	614.58	0.0070	0.0000	0.0070
108	618.00	614.00	0.0018	0.0397	0.0415
109	608.00	604.00	0.0000	0.0705	0.0705
110	612.70	608.70	0.0000	0.0705	0.0705
111	615.01	611.01	0.0097	0.0123	0.0220
112	619.01	615.01	0.0053	0.0070	0.0123
113	632.33	628.33	0.0097	0.0000	0.0097
114	627.31	623.31	0.0044	0.0169	0.0213
115	625.81	621.81	0.0070	0.0213	0.0283
116	622.45	618.45	0.0018	0.0301	0.0318
117	630.32	626.32	0.0000	0.0018	0.0018
118	631.79	627.79	0.0018	0.0000	0.0018
119	636.30	634.00	0.0072	0.0000	0.0072
120	639.00	635.00	0.0054	0.0000	0.0054
121	638.41	635.41	0.0018	0.0000	0.0018
122	638.00	635.00	0.0018	0.0000	0.0018
123	639.37	635.37	0.0090	0.0000	0.0090
124	637.33	634.50	0.0072	0.0000	0.0072
125	639.71	634.00	0.0036	0.0072	0.0108
126	640.00	633.00	0.0000	0.0269	0.0269
127	638.00	632.00	0.0000	0.0305	0.0305
128	638.00	631.00	0.0000	0.0359	0.0359
129	639.00	630.50	0.0197	0.0376	0.0574
130	638.52	629.50	0.0000	0.0574	0.0574
131	638.93	628.00	0.0000	0.0592	0.0592
132	631.15	627.15	0.0000	0.0592	0.0592
133	648.00	644.00	0.0000	0.0361	0.0361
134	657.27	653.27	0.0300	0.0062	0.0361
135	683.62	679.62	0.0062	0.0000	0.0062
136	688.94	684.94	0.0088	0.0000	0.0088
137	684.00	680.00	0.0079	0.0088	0.0167
138	673.70	669.70	0.0053	0.0167	0.0220

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Infrastructure Upgrades in Future Conditions
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
139	665.44	661.44	0.0132	0.0220	0.0352
140	647.95	643.95	0.0018	0.0352	0.0370
141	649.63	645.63	0.0080	0.0176	0.0256
142	655.77	651.77	0.0035	0.0141	0.0176
143	666.41	662.41	0.0079	0.0062	0.0141
144	676.16	672.16	0.0062	0.0000	0.0062
145	650.00	646.00	0.0116	0.0264	0.0380
146	654.80	650.80	0.0062	0.0203	0.0264
147	663.89	659.89	0.0080	0.0123	0.0203
148	684.50	680.50	0.0123	0.0000	0.0123
149	659.42	655.42	0.0125	0.0212	0.0336
150	682.72	678.72	0.0212	0.0000	0.0212
151	679.20	675.20	0.0176	0.0000	0.0176
152	680.00	676.00	0.0097	0.0000	0.0097
153	642.65	631.50	0.0036	1.5070	1.5106
154	667.28	663.28	0.0160	0.0291	0.0450
155	671.41	667.41	0.0000	0.0114	0.0114
156	678.17	674.17	0.0000	0.0114	0.0114
157	678.92	674.92	0.0018	0.0000	0.0018
158	642.00	630.50	0.0036	1.5265	1.5301
159	674.11	670.11	0.0159	0.0000	0.0159
160	639.27	635.27	0.0000	0.0626	0.0626
161	641.92	636.92	0.0000	0.0256	0.0256
162	644.00	634.50	1.3868	0.0380	1.4248
163	643.00	633.00	0.0036	1.4584	1.4620
164	641.74	631.00	0.0000	1.5106	1.5106
165	643.00	630.00	0.0000	1.5301	1.5301
166	641.00	629.50	0.0000	1.5301	1.5301
167	640.87	629.20	0.0018	1.5390	1.5408
168	639.51	628.50	0.0000	1.5610	1.5610
169	669.64	665.64	0.0070	0.0000	0.0070
170	657.00	653.00	0.0018	0.0070	0.0088
171	650.05	646.05	0.0018	0.0123	0.0141
172	643.48	639.48	0.0026	0.0176	0.0203
173	638.23	626.80	0.0000	1.5698	1.5698
174	657.00	645.64	0.0114	0.0000	0.0114
175	689.00	679.19	0.0114	0.0000	0.0114
176	676.00	669.00	0.0009	0.6361	0.6370
177	675.00	668.00	0.0000	1.1657	1.1657
178	675.00	666.00	0.0000	1.1657	1.1657
179	675.00	665.00	0.0053	1.1692	1.1745
180	668.00	661.00	0.0123	1.1745	1.1868
181	657.50	652.00	0.0018	1.1868	1.1886
182	656.00	650.00	0.0044	1.2044	1.2088
183	656.00	649.00	0.0009	1.2212	1.2220
184	655.00	648.00	0.0026	1.2220	1.2247

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Infrastructure Upgrades in Future Conditions
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
185	655.00	645.00	0.0062	1.2379	1.2440
186	650.00	640.10	0.0053	1.2555	1.2608
187	636.81	625.80	0.0036	1.2608	1.2643
188	634.90	625.00	0.0000	2.8341	2.8341
189	630.12	620.00	0.0000	3.0244	3.0244
190	633.16	624.00	0.0054	2.8341	2.8395
191	642.00	630.32	0.0229	0.0000	0.0229
192	639.34	635.34	0.0220	0.0000	0.0220
193	661.00	650.50	0.0510	0.0000	0.0510
194	663.00	656.00	0.0581	0.0000	0.0581
195	652.00	645.00	0.0229	0.1091	0.1320
196	660.00	653.00	0.0370	0.0000	0.0370
197	643.00	631.95	0.0035	0.0370	0.0405
198	641.00	630.48	0.0009	0.1725	0.1734
199	640.00	629.51	0.0000	0.1954	0.1954
200	640.00	629.00	0.0361	0.1954	0.2314
201	640.00	628.50	0.0035	0.2543	0.2578
202	657.86	640.44	0.0000	1.7326	1.7326
203	651.68	639.30	0.0000	1.7344	1.7344
204	635.35	627.53	0.0000	0.2086	0.2086
205	627.03	613.90	0.0000	0.1188	0.1188
206	642.00	630.70	0.0176	0.0000	0.0176
207	637.00	626.60	0.0000	0.2754	0.2754
208	692.00	681.50	0.0044	0.0493	0.0537
209	691.63	687.63	0.0035	0.0000	0.0035
210	692.87	688.87	0.0035	0.0000	0.0035
211	692.00	686.00	0.0053	0.0070	0.0123
212	688.97	680.00	0.0035	0.0660	0.0695
213	682.39	678.39	0.0026	0.0695	0.0722
214	678.00	673.10	0.0035	0.0722	0.0757
215	694.00	690.00	0.0150	0.0000	0.0150
216	684.36	672.00	0.0035	0.0906	0.0942
217	691.85	687.85	0.0176	0.0000	0.0176
218	685.00	670.90	0.0035	0.1118	0.1153
219	693.50	689.42	0.0018	0.0000	0.0018
220	692.65	688.63	0.0070	0.0018	0.0088
221	687.02	683.02	0.0026	0.0088	0.0114
222	680.80	676.80	0.0044	0.0114	0.0158
223	688.76	684.76	0.0167	0.0000	0.0167
224	681.00	669.80	0.0018	0.1320	0.1338
225	678.34	669.14	0.0009	0.1478	0.1487
226	675.00	668.49	0.0009	0.1646	0.1654
227	675.00	668.10	0.0000	0.1654	0.1654
228	667.43	663.43	0.0000	0.1654	0.1654
229	660.66	656.66	0.0000	0.1654	0.1654
230	652.07	648.07	0.0000	0.3814	0.3814

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Infrastructure Upgrades in Future Conditions
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
231	617.00	613.00	0.0000	1.3292	1.3292
232	623.02	619.02	0.0000	1.3292	1.3292
233	634.54	630.54	0.0018	1.2176	1.2194
234	642.74	633.00	0.0018	1.2158	1.2176
235	645.01	634.00	0.0054	1.2104	1.2158
236	646.60	637.50	0.0000	1.2104	1.2104
237	646.27	637.60	0.0000	1.2104	1.2104
238	649.49	645.49	0.0054	0.8236	0.8290
239	654.00	647.00	0.0018	0.8218	0.8236
240	715.79	702.58	0.0202	0.0950	0.1153
241	713.78	701.32	0.0308	0.1153	0.1461
242	707.86	697.69	0.0000	0.2112	0.2112
243	708.74	696.43	0.0255	0.2112	0.2367
244	709.51	694.41	0.0370	0.2367	0.2737
245	697.57	685.41	0.0026	0.2948	0.2974
246	702.25	695.20	0.0211	0.0000	0.0211
247	699.14	684.09	0.0035	0.3344	0.3379
248	693.35	682.77	0.0035	0.3898	0.3934
249	683.16	672.11	0.0018	0.4022	0.4039
250	668.43	660.38	0.0062	0.4171	0.4233
251	690.59	684.04	0.0132	0.0000	0.0132
252	656.00	647.39	0.0000	0.7383	0.7383
253	652.94	646.89	0.0000	0.7383	0.7383
254	628.48	619.55	0.0035	0.8765	0.8800
255	634.67	627.08	0.0158	0.0000	0.0158
256	651.29	640.84	0.0070	0.1100	0.1170
257	679.35	670.87	0.0202	0.0000	0.0202
258	659.57	648.16	0.0044	0.0854	0.0898
259	661.88	652.60	0.0097	0.0387	0.0484
260	685.49	673.84	0.0220	0.0167	0.0387
261	702.55	696.00	0.0167	0.0000	0.0167
262	684.59	677.53	0.0370	0.0000	0.0370
263	666.17	658.54	0.0132	0.0273	0.0405
264	642.59	634.66	0.0035	0.0537	0.0572
265	671.57	665.52	0.0132	0.0000	0.0132
266	638.66	628.22	0.0070	0.0845	0.0915
267	653.78	643.95	0.0079	0.0194	0.0273
268	654.48	647.43	0.0194	0.0000	0.0194
269	653.36	646.31	0.0141	0.0000	0.0141
270	626.58	617.80	0.0106	0.9398	0.9504
271	661.10	652.34	0.0414	0.0000	0.0414
272	627.49	618.69	0.0044	0.9214	0.9258
273	632.66	615.97	0.0114	0.9645	0.9759
274	646.22	640.17	0.0141	0.0000	0.0141
275	626.83	614.51	0.0035	1.0674	1.0710
276	626.86	613.48	0.0158	1.0806	1.0965

2024 City of Justin Wastewater Model Update.stsw
Active Scenario: Infrastructure Upgrades in Future Conditions
FlexTable: Manhole Table

Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
277	623.97	610.89	0.0000	1.1106	1.1106
278	628.22	622.17	0.0141	0.0000	0.0141
279	629.72	623.67	0.0097	0.0000	0.0097
280	624.65	606.77	0.0000	1.5622	1.5622
281	621.00	607.50	0.0000	0.1737	0.1737
282	680.94	673.59	0.0088	0.0000	0.0088
283	713.91	705.91	0.0370	0.0000	0.0370
284	709.71	699.50	0.0651	0.0000	0.0651
285	676.69	665.28	0.0000	0.0238	0.0238
286	684.35	677.74	0.0678	0.0000	0.0678
287	686.89	679.40	0.0088	0.0000	0.0088
288	681.88	675.31	0.0220	0.0000	0.0220
289	674.27	661.54	0.0000	0.0634	0.0634
290	680.15	662.79	0.0088	0.0326	0.0414
291	678.42	664.04	0.0088	0.0238	0.0326
292	657.93	647.93	0.0000	0.8218	0.8218
293	688.12	680.00	0.0202	0.0000	0.0202
294	685.74	675.28	0.0044	0.0317	0.0361
295	686.10	677.87	0.0114	0.0000	0.0114
296	686.35	674.16	0.0035	0.0422	0.0458
297	686.50	679.94	0.0062	0.0000	0.0062
298	687.19	673.27	0.0044	0.0493	0.0537
299	687.72	680.79	0.0035	0.0000	0.0035
300	683.66	672.05	0.0202	0.0669	0.0871
301	689.48	683.51	0.0132	0.0000	0.0132
302	674.98	667.28	0.0000	0.1399	0.1399
303	688.39	683.19	0.0229	0.0000	0.0229
304	690.09	684.74	0.0299	0.0000	0.0299
305	692.12	678.88	0.0000	1.1782	1.1782
306	677.34	663.81	0.0141	1.2284	1.2424
307	673.34	665.85	0.0317	0.0554	0.0871
308	685.55	677.81	0.0194	0.0000	0.0194
309	683.15	668.86	0.0361	0.0000	0.0361
310	672.84	665.47	0.0088	0.0000	0.0088
311	673.46	666.46	0.0554	0.0000	0.0554
312	652.00	645.00	0.0361	0.0000	0.0361
313	655.00	649.00	0.0000	0.2160	0.2160
314	660.00	656.00	0.0000	0.1620	0.1620
315	665.00	658.50	0.0000	0.1080	0.1080
316	671.00	664.00	0.0540	0.0000	0.0540
317	677.00	670.00	0.0540	0.0000	0.0540
318	670.00	663.00	0.0540	0.0000	0.0540
319	673.00	667.00	0.0540	0.0000	0.0540
320	659.72	648.58	0.0070	1.4686	1.4756
321	652.90	639.66	0.0000	1.7326	1.7326
322	661.52	651.66	0.0000	0.1399	0.1399

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Label	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Local In) (MGD)	Flow (Total In) (MGD)	Flow (Total Out) (MGD)
323	642.14	619.50	0.0000	12.6763	12.6763
324	644.75	634.24	0.0484	0.0748	0.1232
325	669.84	662.79	0.0273	0.0000	0.0273
326	631.39	620.64	0.0053	0.1170	0.1223
327	667.06	660.05	0.0000	0.3150	0.3150
328	687.80	678.10	0.0079	0.0528	0.0607
329	703.09	695.12	0.0185	0.0343	0.0528
330	707.36	699.70	0.0158	0.0185	0.0343
331	712.25	705.20	0.0079	0.0106	0.0185
332	716.88	709.51	0.0106	0.0000	0.0106
333	715.72	708.81	0.0519	0.0000	0.0519
334	665.00	656.25	0.0000	0.3150	0.3150
335	663.00	657.00	0.0000	0.3150	0.3150
336	697.70	677.25	0.0000	0.2543	0.2543
337	714.42	706.45	0.0950	0.0000	0.0950
338	701.95	693.00	0.0220	0.0000	0.0220
339	698.12	683.00	0.0000	0.4145	0.4145
340	699.36	688.00	0.0000	0.3925	0.3925
341	692.05	679.33	0.0000	1.1782	1.1782
342	679.00	658.95	0.0600	0.5387	0.5987
343	676.08	670.00	0.0238	0.0000	0.0238
344	676.08	670.00	0.0220	0.0000	0.0220
345	635.35	614.98	0.0000	12.8849	12.8849
346	700.78	689.42	0.0000	0.3925	0.3925
347	710.14	698.78	0.0334	0.0000	0.0334
348	704.15	692.79	0.0097	0.3494	0.3590
349	709.01	697.65	0.0079	0.0651	0.0730
350	713.82	702.37	0.0000	0.0370	0.0370
351	719.97	708.52	0.0370	0.0000	0.0370
352	717.53	706.17	0.0282	0.0000	0.0282
353	710.67	694.00	0.0202	0.2561	0.2763
354	666.25	650.64	0.0062	1.3824	1.3885
355	675.60	665.60	0.0449	0.0000	0.0449
356	674.28	667.08	0.0801	0.0000	0.0801
357	676.69	669.69	0.0554	0.0000	0.0554
358	656.32	641.44	0.0070	1.5311	1.5381
359	660.14	651.40	0.0132	0.1813	0.1945
360	672.00	665.00	0.0229	0.0000	0.0229
361	685.85	675.46	0.0282	1.1914	1.2196
362	693.00	677.92	0.0132	1.1782	1.1914
363	722.00	715.00	0.0211	0.0000	0.0211
364	719.00	712.00	0.0167	0.0598	0.0766
365	721.00	714.00	0.0378	0.0220	0.0598
366	722.00	715.00	0.0026	0.0194	0.0220
367	733.00	726.00	0.0194	0.0000	0.0194
368	707.00	700.00	0.0088	0.0440	0.0528

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369	725.00	718.00	0.0185	0.0000	0.0185
370	720.00	713.00	0.0255	0.0000	0.0255
371	713.00	700.00	0.0141	0.0898	0.1038
372	725.00	711.50	0.0035	0.0352	0.0387
373	733.00	723.00	0.0229	0.0000	0.0229
374	720.00	713.00	0.0123	0.0000	0.0123
375	735.00	728.00	0.0440	0.0000	0.0440
376	707.53	696.53	0.0000	0.1734	0.1734
377	713.51	706.51	0.0000	0.0537	0.0537
378	720.85	713.85	0.0202	0.0079	0.0282
379	721.15	714.15	0.0255	0.0000	0.0255
380	726.51	719.51	0.0079	0.0000	0.0079
381	710.66	694.75	0.0000	0.2561	0.2561
382	713.18	703.00	0.0000	0.0405	0.0405
383	726.54	719.54	0.0299	0.0000	0.0299
384	726.84	719.84	0.0290	0.0000	0.0290
385	700.22	685.81	0.0774	0.6863	0.7637
386	699.66	687.25	0.0000	0.6863	0.6863
387	698.53	688.61	0.0543	0.4959	0.5502
388	703.57	693.02	0.0000	0.4959	0.4959
389	716.39	710.00	0.0308	0.0000	0.0308
390	699.69	692.34	0.0000	0.4959	0.4959
391	704.97	695.51	0.0273	0.4378	0.4651
392	706.84	696.28	0.0000	0.4378	0.4378
393	708.51	696.97	0.0000	0.4184	0.4184
394	711.52	697.75	0.0000	0.3991	0.3991
395	718.37	700.29	0.0000	0.1461	0.1461
396	714.19	702.14	0.0114	0.0651	0.0766
397	715.00	702.95	0.0000	0.0651	0.0651
398	741.00	731.00	0.0238	0.0000	0.0238
399	716.82	707.85	0.0000	0.0695	0.0695
400	718.39	709.00	0.0695	0.0000	0.0695
401	730.00	723.00	0.0000	0.2424	0.2424
402	748.00	741.00	0.0466	0.0620	0.1087
403	751.00	744.00	0.0242	0.0378	0.0620
404	762.00	755.00	0.0194	0.0000	0.0194
405	760.00	753.00	0.0185	0.0000	0.0185
406	739.00	732.00	0.0282	0.1056	0.1338
407	744.00	736.00	0.0458	0.0598	0.1056
408	744.00	737.00	0.0000	0.0598	0.0598
409	764.00	757.00	0.0343	0.0000	0.0343
410	762.00	755.00	0.0255	0.0000	0.0255
411	748.00	740.00	0.0414	0.0000	0.0414
412	650.00	638.43	0.0000	0.3814	0.3814
413	715.92	711.00	0.0106	0.0000	0.0106
414	712.20	705.00	0.0194	0.0000	0.0194

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415	709.79	702.50	0.0194	0.0000	0.0194
416	722.47	715.47	0.0370	0.0000	0.0370
417	719.02	712.02	0.0334	0.0000	0.0334
418	717.45	708.77	0.0132	0.0290	0.0422
419	720.47	707.83	0.0106	0.0299	0.0405
420	716.20	703.53	0.0194	0.0537	0.0730
421	710.00	703.00	0.0070	0.0440	0.0510
422	647.57	639.60	0.0018	0.0000	0.0018
423	650.00	643.00	0.1080	0.0000	0.1080
424	629.82	625.81	0.0018	1.3274	1.3292
425	625.31	609.57	0.0000	13.0037	13.0037
426	621.61	606.67	0.0000	13.2791	13.2791
427	619.19	605.83	0.0000	13.2791	13.2791
428	617.08	604.98	0.0000	13.2791	13.2791
429	617.43	604.14	0.0000	13.2791	13.2791
430	614.23	603.75	0.0000	14.6083	14.6083
431	613.00	603.57	0.0000	14.6083	14.6083
432	611.00	603.16	0.0000	14.6083	14.6083
433	611.23	602.41	0.0000	14.6083	14.6083
434	704.25	688.76	0.2030	4.3357	4.5387
435	657.20	635.85	0.1831	10.7100	10.8931
436	649.22	628.55	0.0000	10.9092	10.9092
437	642.58	627.00	0.0000	10.9092	10.9092
438	688.44	670.33	0.0000	5.2358	5.2358
439	696.60	682.54	0.0000	0.6204	0.6204
440	698.97	686.12	0.6204	0.0000	0.6204
441	691.08	675.45	0.0000	0.6204	0.6204
442	775.00	768.00	3.5921	0.0000	3.5921
443	720.00	713.00	0.4692	2.8993	3.3686
444	805.00	798.00	0.5721	0.0000	0.5721
445	740.00	733.00	1.2714	1.6280	2.8993
446	794.00	787.00	0.0405	0.0000	0.0405
447	777.00	770.00	0.1646	0.1754	0.3401
448	725.00	718.00	0.0601	0.3762	0.4363
449	796.00	791.00	0.6410	0.0000	0.6410
450	757.00	750.00	1.0559	0.0000	1.0559
451	695.00	688.00	2.6405	0.0000	2.6405
452	665.00	648.00	0.7588	2.6405	3.3993
453	735.00	728.00	0.4464	1.1268	1.5732
454	735.00	728.00	0.3762	0.0000	0.3762
455	765.00	758.00	0.4858	0.6410	1.1268
456	680.00	673.00	0.2399	4.3438	4.5837
457	680.00	673.00	0.0161	0.0000	0.0161
458	695.00	688.00	0.4116	0.0000	0.4116
459	615.00	610.50	0.1737	0.0000	0.1737
460	682.86	664.17	0.8906	5.2358	6.1263

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461	710.00	703.00	0.1813	3.8049	3.9861
462	680.00	673.00	0.2464	0.0000	0.2464
463	651.00	638.00	0.5295	3.6458	4.1752
464	725.00	718.00	0.0000	3.5921	3.5921
465	785.00	779.00	0.1349	0.0000	0.1349
466	782.00	772.00	0.0000	0.1754	0.1754
467	725.00	718.00	0.3496	0.0000	0.3496
468	706.73	694.90	0.0000	4.3357	4.3357
469	695.00	688.00	0.1361	0.0000	0.1361
470	670.00	665.00	0.1728	0.0000	0.1728
471	685.00	678.00	0.0766	0.0000	0.0766
472	685.00	678.00	0.6247	0.0000	0.6247
473	642.54	626.31	0.0000	10.9419	10.9419
474	651.00	627.00	0.0327	0.0000	0.0327
475	680.00	673.00	0.2015	0.1644	0.3659
476	655.00	649.50	0.0832	0.0000	0.0832
477	662.59	648.99	0.0000	0.6819	0.6819
478	624.00	617.00	0.9312	0.0000	0.9312
479	645.00	628.00	0.0000	4.1752	4.1752
480	645.00	623.00	0.8430	4.1752	5.0182
481	625.00	600.00	0.1001	5.0182	5.1182
482	620.00	593.00	0.0000	5.2116	5.2116
483	619.00	600.00	0.0934	0.0000	0.0934
484	600.00	590.00	0.0000	2.2341	2.2341
485	611.00	604.00	1.3029	0.0000	1.3029
486	626.00	619.00	0.2780	0.0000	0.2780
487	622.00	615.00	0.0000	0.2780	0.2780
488	621.06	600.07	0.0000	0.0000	0.0000
489	668.34	664.34	0.0000	0.0000	0.0000
491	620.67	607.00	0.0000	0.0000	0.0000
492	612.00	604.00	0.0000	0.0000	0.0000
493	617.21	603.50	0.0000	0.0000	0.0000
494	621.75	602.00	0.0000	0.0000	0.0000
495	615.51	603.00	0.0000	0.0000	0.0000
496	729.11	722.11	0.0000	0.0000	0.0000
497	655.41	644.22	0.0000	0.0000	0.0000
498	660.78	650.78	0.0000	0.0000	0.0000
499	656.22	645.50	0.0000	0.0000	0.0000

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Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (Scaled) (ft)	Slope (Calculated) (ft/ft)	Diameter (in)	Manning's n	Velocity (ft/s)	Flow (MGD)	Depth/Rise (%)
CO-1	240	702.58	241	701.32	291.4	0.004	8.0	0.013	1.84	0.1153	34.4
CO-2	241	701.32	242	697.69	852.2	0.004	8.0	0.013	1.95	0.1461	40.6
CO-3	242	697.69	243	696.43	290.7	0.004	8.0	0.013	2.17	0.2112	45.1
CO-4	243	696.43	244	694.41	398.9	0.005	8.0	0.013	2.37	0.2367	45.8
CO-5	239	647.00	238	645.49	401.5	0.004	10.0	0.013	2.80	0.8236	69.2
CO-6	244	694.41	245	685.41	1,382.5	0.007	8.0	0.013	2.70	0.2737	47.6
CO-7	238	645.49	237	637.60	411.9	0.019	10.0	0.013	5.33	0.8290	65.4
CO-8	245	685.41	246	695.20	1,204.2	0.008	8.0	0.013	1.40	0.0211	30.7
CO-9	237	637.60	236	637.50	8.5	0.012	12.0	0.013	4.88	1.2104	54.7
CO-10	245	685.41	247	684.09	317.3	0.004	10.0	0.013	2.31	0.2974	40.5
CO-11	236	637.50	235	634.00	466.8	0.007	12.0	0.013	4.12	1.2104	66.5
CO-12	247	684.09	248	682.77	308.0	0.004	10.0	0.013	2.42	0.3379	41.4
CO-13	235	634.00	234	633.00	295.1	0.003	12.0	0.013	2.99	1.2158	66.9
CO-14	248	682.77	249	672.11	314.3	0.034	10.0	0.013	5.33	0.3934	41.4
CO-15	234	633.00	233	630.54	378.4	0.007	12.0	0.013	3.90	1.2176	58.8
CO-16	249	672.11	250	660.38	321.6	0.036	10.0	0.013	5.51	0.4039	42.2
CO-17	250	660.38	251	684.04	730.2	0.032	8.0	0.013	1.95	0.0132	31.5
CO-18	233	630.54	424	625.81	140.6	0.034	12.0	0.013	7.19	1.2194	59.9
CO-19	424	625.81	232	619.02	202.2	0.034	12.0	0.013	7.36	1.3292	49.9
CO-20	232	619.02	231	613.00	312.8	0.019	12.0	0.013	6.00	1.3292	53.1
CO-21	250	660.38	252	647.39	332.3	0.039	10.0	0.013	5.73	0.4233	59.5
CO-22	231	613.00	430	605.89	258.6	0.027	12.0	0.013	6.84	1.3292	51.0
CO-23	252	647.39	253	646.89	158.8	0.003	10.0	0.013	2.56	0.7383	66.7
CO-24	253	646.89	254	619.55	3,440.3	0.008	10.0	0.013	3.72	0.7383	65.9
CO-25	230	648.07	412	638.43	266.7	0.036	10.0	0.013	5.40	0.3814	45.8
CO-26	412	638.43	237	637.60	309.3	0.003	10.0	0.013	2.10	0.3814	60.6
CO-27	229	656.66	230	648.07	315.5	0.027	10.0	0.013	3.83	0.1654	33.4
CO-28	255	627.08	254	619.55	590.6	0.013	8.0	0.013	1.50	0.0158	52.0
CO-29	228	663.43	229	656.66	460.3	0.015	10.0	0.013	3.08	0.1654	23.6
CO-30	256	640.84	326	620.64	295.6	0.068	8.0	0.013	4.91	0.1170	31.2

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CO-31	227	668.10	228	663.43	339.0	0.014	10.0	0.013	3.01	0.1654	23.8
CO-32	257	670.87	256	640.84	980.6	0.031	8.0	0.013	2.20	0.0202	20.6
CO-33	226	668.49	227	668.10	100.5	0.004	10.0	0.013	1.92	0.1654	27.8
CO-34	258	648.16	256	640.84	303.2	0.024	8.0	0.013	3.14	0.0898	27.4
CO-35	225	669.14	226	668.49	136.6	0.005	8.0	0.013	2.04	0.1487	36.3
CO-36	259	652.60	258	648.16	309.8	0.014	8.0	0.013	2.18	0.0484	22.1
CO-37	224	669.80	225	669.14	134.9	0.005	8.0	0.013	2.00	0.1338	34.8
CO-38	260	673.84	259	652.60	1,053.0	0.020	8.0	0.013	2.30	0.0387	17.6
CO-39	223	684.76	224	669.80	689.2	0.022	6.0	0.013	1.91	0.0167	30.3
CO-40	260	673.84	261	696.00	818.6	0.027	8.0	0.013	1.99	0.0167	13.7
CO-41	262	677.53	258	648.16	1,100.3	0.027	8.0	0.013	2.50	0.0370	20.9
CO-42	222	676.80	226	668.49	423.1	0.020	8.0	0.013	1.75	0.0158	23.6
CO-43	263	658.54	264	634.66	516.9	0.046	8.0	0.013	3.12	0.0405	18.7
CO-44	221	683.02	222	676.80	213.6	0.029	8.0	0.013	1.80	0.0114	9.8
CO-45	265	665.52	264	634.66	750.4	0.041	8.0	0.013	2.12	0.0132	15.0
CO-46	220	688.63	221	683.02	487.0	0.012	8.0	0.013	1.20	0.0088	8.4
CO-47	266	628.22	264	634.66	293.0	0.022	8.0	0.013	2.66	0.0572	23.1
CO-48	219	689.42	220	688.63	193.8	0.004	6.0	0.013	0.54	0.0018	8.3
CO-49	267	643.95	266	628.22	481.0	0.033	8.0	0.013	2.44	0.0273	19.9
CO-50	218	670.90	224	669.80	266.6	0.004	8.0	0.013	1.81	0.1153	33.1
CO-51	268	647.43	267	643.95	694.3	0.005	8.0	0.013	1.15	0.0194	13.4
CO-52	217	687.85	218	670.90	698.4	0.024	6.0	0.013	2.02	0.0176	29.8
CO-53	269	646.31	270	617.80	581.9	0.049	8.0	0.013	2.30	0.0141	52.4
CO-54	272	618.69	271	652.34	1,548.7	0.022	8.0	0.013	2.41	0.0414	57.1
CO-55	216	672.00	218	670.90	232.2	0.005	8.0	0.013	1.79	0.0942	30.5
CO-56	254	619.55	272	618.69	296.6	0.003	12.0	0.013	2.65	0.8800	63.4
CO-57	215	690.00	216	672.00	860.3	0.021	8.0	0.013	1.76	0.0150	19.3
CO-58	272	618.69	270	617.80	309.2	0.003	12.0	0.013	2.67	0.9258	63.9
CO-59	270	617.80	273	615.97	565.7	0.003	12.0	0.013	2.81	0.9504	64.6
CO-60	214	673.10	216	672.00	245.5	0.004	8.0	0.013	1.65	0.0757	27.0

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CO-61	274	640.17	273	615.97	796.6	0.030	8.0	0.013	1.95	0.0141	54.5
CO-62	213	678.39	214	673.10	185.1	0.029	8.0	0.013	3.13	0.0722	24.3
CO-63	273	615.97	275	614.51	486.5	0.003	12.0	0.013	2.74	0.9759	66.3
CO-64	212	680.00	213	678.39	304.2	0.005	8.0	0.013	1.71	0.0695	23.2
CO-65	266	628.22	275	614.51	553.2	0.025	8.0	0.013	3.19	0.0915	62.9
CO-66	211	686.00	212	680.00	267.7	0.022	8.0	0.013	1.68	0.0123	16.5
CO-67	275	614.51	276	613.48	291.9	0.004	12.0	0.013	2.98	1.0710	66.8
CO-68	210	688.87	211	686.00	157.2	0.018	6.0	0.013	1.12	0.0035	9.8
CO-69	276	613.48	277	610.89	710.4	0.004	12.0	0.013	3.04	1.0965	61.3
CO-70	209	687.63	211	686.00	83.5	0.020	8.0	0.013	1.09	0.0035	7.1
CO-71	278	622.17	277	610.89	673.5	0.017	8.0	0.013	1.60	0.0141	46.8
CO-72	208	681.50	212	680.00	253.8	0.006	8.0	0.013	1.65	0.0537	21.9
CO-73	279	623.67	276	613.48	406.8	0.025	8.0	0.013	1.62	0.0097	54.1
CO-74	277	610.89	280	606.77	365.3	0.011	12.0	0.013	4.70	1.1106	61.0
CO-76	281	607.50	280	606.77	179.1	0.004	12.0	0.013	1.95	0.1737	44.8
CO-77	282	673.59	249	672.11	326.8	0.005	8.0	0.013	0.87	0.0088	30.5
CO-78	283	705.91	247	684.09	1,330.0	0.016	8.0	0.013	2.11	0.0370	34.2
CO-81	207	626.60	426	612.04	307.7	0.047	8.0	0.013	5.53	0.2754	36.5
CO-82	284	699.50	242	697.69	287.2	0.006	8.0	0.013	1.78	0.0651	33.3
CO-83	206	630.70	207	626.60	911.8	0.004	8.0	0.013	1.08	0.0176	29.1
CO-85	345	614.98	425	609.57	1,421.9	0.004	30.0	0.013	5.71	12.8849	63.9
CO-86	289	661.54	17	660.12	285.9	0.005	8.0	0.013	1.62	0.0634	28.6
CO-87	204	627.53	345	626.00	36.4	0.042	8.0	0.013	4.90	0.2086	32.0
CO-88	286	677.74	17	660.12	2,621.1	0.007	8.0	0.013	1.85	0.0678	28.2
CO-89	202	640.44	321	639.66	250.2	0.003	15.0	0.013	3.22	1.7326	63.2
CO-90	201	628.50	207	626.60	240.3	0.008	8.0	0.013	2.85	0.2578	44.9
CO-91	285	665.28	287	679.40	594.4	0.024	8.0	0.013	1.55	0.0088	11.3
CO-92	200	629.00	201	628.50	107.3	0.005	8.0	0.013	2.28	0.2314	45.1
CO-93	288	675.31	289	661.54	1,167.4	0.012	8.0	0.013	1.61	0.0220	17.7
CO-94	199	629.51	200	629.00	270.2	0.002	8.0	0.013	1.56	0.1954	50.2

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CO-95	289	661.54	290	662.79	297.0	0.004	8.0	0.013	1.35	0.0414	21.1
CO-96	198	630.48	199	629.51	271.9	0.004	8.0	0.013	1.92	0.1734	48.3
CO-97	197	631.95	198	630.48	272.7	0.005	8.0	0.013	1.47	0.0405	30.1
CO-98	285	665.28	291	664.04	295.7	0.004	8.0	0.013	1.15	0.0238	15.9
CO-99	196	653.00	197	631.95	1,538.4	0.014	8.0	0.013	1.98	0.0370	17.1
CO-100	291	664.04	290	662.79	284.2	0.004	8.0	0.013	1.28	0.0326	18.2
CO-101	292	647.93	239	647.00	246.9	0.004	10.0	0.013	2.80	0.8218	77.6
CO-102	293	680.00	294	675.28	929.8	0.005	8.0	0.013	1.17	0.0202	15.7
CO-103	295	677.87	294	675.28	357.4	0.007	8.0	0.013	1.12	0.0114	13.7
CO-104	294	675.28	296	674.16	282.6	0.004	8.0	0.013	1.27	0.0361	18.9
CO-105	297	679.94	296	679.00	235.5	0.004	8.0	0.013	0.75	0.0062	7.2
CO-106	195	645.00	198	630.48	884.8	0.016	8.0	0.013	3.07	0.1320	36.7
CO-107	296	674.16	298	673.27	174.1	0.005	8.0	0.013	1.49	0.0458	20.6
CO-108	299	680.79	298	680.00	199.7	0.004	8.0	0.013	0.63	0.0035	5.5
CO-109	194	656.00	195	645.00	692.6	0.016	8.0	0.013	2.39	0.0581	25.8
CO-110	298	673.27	300	672.05	278.6	0.004	8.0	0.013	1.48	0.0537	23.5
CO-111	193	650.50	195	645.00	914.5	0.006	8.0	0.013	1.63	0.0510	25.4
CO-112	301	683.51	300	672.05	815.0	0.014	8.0	0.013	1.47	0.0132	17.4
CO-113	300	672.05	302	667.28	751.5	0.006	8.0	0.013	1.94	0.0871	28.7
CO-114	302	667.28	303	683.19	672.1	0.024	8.0	0.013	2.07	0.0229	22.4
CO-115	192	635.34	199	629.51	829.0	0.007	8.0	0.013	1.35	0.0220	33.5
CO-116	302	667.28	304	684.74	1,027.1	0.017	8.0	0.013	2.01	0.0299	23.3
CO-117	302	667.28	322	651.66	966.7	0.016	8.0	0.013	3.11	0.1399	28.7
CO-118	191	630.32	201	628.50	230.8	0.008	8.0	0.013	1.42	0.0229	28.4
CO-119	305	678.88	362	677.92	177.8	0.005	12.0	0.013	3.60	1.1782	62.0
CO-120	361	675.46	306	663.81	1,437.1	0.008	12.0	0.013	4.25	1.2196	58.8
CO-121	190	624.00	189	620.00	256.5	0.016	18.0	0.013	6.69	2.8395	54.5
CO-122	306	663.81	15	656.95	666.8	0.010	12.0	0.013	4.67	1.2424	60.3
CO-123	307	665.85	15	656.95	1,427.9	0.006	8.0	0.013	1.93	0.0871	58.8
CO-124	308	677.81	307	665.85	849.6	0.014	8.0	0.013	1.65	0.0194	18.6

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CO-125	188	625.00	190	624.00	149.2	0.007	18.0	0.013	4.89	2.8341	53.6
CO-126	309	668.86	307	665.85	582.4	0.005	8.0	0.013	1.40	0.0361	21.3
CO-127	187	625.80	188	625.00	137.1	0.006	12.0	0.013	3.77	1.2643	71.6
CO-128	186	640.10	187	625.80	303.8	0.047	12.0	0.013	8.20	1.2608	61.2
CO-129	185	645.00	186	640.10	598.4	0.008	12.0	0.013	4.29	1.2440	59.4
CO-130	310	665.47	306	663.81	543.5	0.003	8.0	0.013	0.76	0.0088	49.3
CO-131	184	648.00	185	645.00	217.1	0.014	12.0	0.013	5.20	1.2247	58.9
CO-132	183	649.00	184	648.00	189.0	0.005	12.0	0.013	3.60	1.2220	61.0
CO-133	182	650.00	183	649.00	389.0	0.003	12.0	0.013	2.61	1.2088	74.4
CO-134	311	666.46	41	639.00	1,530.1	0.018	8.0	0.013	2.46	0.0554	22.1
CO-135	181	652.00	182	650.00	287.4	0.007	12.0	0.013	3.98	1.1886	71.5
CO-136	180	661.00	181	652.00	687.9	0.013	10.0	0.013	5.02	1.1868	68.3
CO-137	179	665.00	180	661.00	388.6	0.010	10.0	0.013	4.55	1.1745	72.8
CO-138	178	666.00	179	665.00	38.0	0.026	10.0	0.013	6.54	1.1657	72.5
CO-139	177	668.00	178	666.00	336.3	0.006	10.0	0.013	3.48	1.1657	81.3
CO-140	176	669.00	177	668.00	368.4	0.003	10.0	0.013	2.36	0.6370	81.0
CO-141	230	648.07	313	649.00	21.7	0.043	8.0	0.013	4.98	0.2160	45.4
CO-142	314	656.00	313	649.00	339.8	0.021	8.0	0.013	3.54	0.1620	37.4
CO-143	315	658.50	314	656.00	143.4	0.017	8.0	0.013	2.96	0.1080	31.4
CO-144	175	679.19	176	669.00	814.3	0.013	8.0	0.013	1.36	0.0114	49.3
CO-145	316	664.00	315	658.50	272.6	0.020	8.0	0.013	2.54	0.0540	23.9
CO-146	174	645.64	186	640.10	667.4	0.008	6.0	0.013	1.22	0.0114	56.4
CO-147	317	670.00	315	658.50	404.5	0.028	8.0	0.013	2.86	0.0540	23.9
CO-148	173	626.80	188	625.00	365.3	0.005	14.0	0.013	3.75	1.5698	63.6
CO-149	318	663.00	314	656.00	396.1	0.018	8.0	0.013	2.43	0.0540	27.2
CO-150	168	628.50	173	626.80	459.3	0.004	14.0	0.013	3.35	1.5610	61.2
CO-151	313	649.00	319	667.00	517.4	0.035	8.0	0.013	3.08	0.0540	30.0
CO-152	172	639.48	168	628.50	391.1	0.028	6.0	0.013	2.21	0.0203	58.6
CO-154	171	646.05	172	639.48	354.8	0.019	6.0	0.013	1.71	0.0141	15.8
CO-155	354	650.64	320	648.58	322.7	0.006	12.0	0.013	3.98	1.3885	64.8

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CO-156	15	656.95	354	650.64	360.7	0.017	12.0	0.013	5.81	1.3375	63.2
CO-157	170	653.00	171	646.05	238.8	0.029	6.0	0.013	1.75	0.0088	12.8
CO-158	321	639.66	203	639.30	105.3	0.003	15.0	0.013	3.34	1.7326	57.4
CO-159	169	665.64	170	653.00	652.8	0.019	6.0	0.013	1.42	0.0070	10.7
CO-160	292	647.93	322	651.66	394.9	0.009	10.0	0.013	2.51	0.1399	50.8
CO-161	203	639.30	323	630.00	377.8	0.025	15.0	0.013	6.98	1.7344	43.9
CO-162	167	629.20	168	628.50	367.2	0.002	14.0	0.013	2.50	1.5408	72.8
CO-163	323	619.50	345	614.98	1,296.4	0.003	30.0	0.013	5.49	12.6763	67.6
CO-164	166	629.50	167	629.20	167.0	0.002	14.0	0.013	2.42	1.5301	82.6
CO-165	43	630.25	324	634.24	897.8	0.004	8.0	0.013	1.89	0.1232	37.9
CO-166	165	630.00	166	629.50	153.0	0.003	14.0	0.013	3.17	1.5301	75.9
CO-167	55	665.37	45	651.86	315.9	0.043	8.0	0.013	2.56	0.0229	18.8
CO-168	46	659.46	324	634.24	889.1	0.028	8.0	0.013	3.16	0.0748	28.2
CO-169	325	662.79	263	658.54	1,005.0	0.004	8.0	0.013	1.20	0.0273	16.4
CO-170	162	634.50	163	633.00	334.4	0.004	14.0	0.013	3.54	1.4248	57.0
CO-171	326	620.64	254	619.55	251.9	0.004	8.0	0.013	1.87	0.1223	63.3
CO-172	252	647.39	334	656.25	262.4	0.034	8.0	0.013	5.09	0.3150	72.2
CO-173	161	636.92	160	635.27	354.0	0.005	8.0	0.013	1.22	0.0256	18.1
CO-174	327	660.05	328	678.10	417.1	0.043	8.0	0.013	3.44	0.0607	34.9
CO-175	158	630.50	165	630.00	200.7	0.002	14.0	0.013	2.83	1.5301	70.4
CO-176	328	678.10	329	695.12	949.3	0.018	8.0	0.013	2.42	0.0528	20.2
CO-177	164	631.00	158	630.50	187.5	0.003	14.0	0.013	2.91	1.5106	71.5
CO-178	329	695.12	330	699.70	756.9	0.006	8.0	0.013	1.45	0.0343	17.8
CO-179	159	670.11	158	630.50	1,038.3	0.038	8.0	0.013	2.18	0.0159	55.3
CO-180	330	699.70	331	705.20	374.2	0.015	8.0	0.013	1.65	0.0185	13.8
CO-181	157	674.92	156	674.17	193.2	0.004	6.0	0.013	0.53	0.0018	9.6
CO-182	331	705.20	332	709.51	705.8	0.006	8.0	0.013	1.03	0.0106	10.3
CO-183	156	674.17	155	667.41	335.7	0.020	6.0	0.013	1.66	0.0114	11.6
CO-184	333	708.81	248	682.77	2,225.1	0.012	8.0	0.013	2.08	0.0519	35.4
CO-185	155	667.41	154	663.28	201.3	0.021	6.0	0.013	1.67	0.0114	18.4

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CO-186	335	657.00	334	656.25	142.1	0.005	8.0	0.013	2.58	0.3150	51.1
CO-187	153	631.50	164	631.00	162.2	0.003	14.0	0.013	3.09	1.5106	68.7
CO-188	335	657.00	327	660.05	174.6	0.017	8.0	0.013	4.02	0.3150	51.1
CO-189	163	633.00	153	631.50	333.0	0.005	14.0	0.013	3.56	1.4620	62.1
CO-190	336	677.25	327	660.05	2,121.0	0.008	8.0	0.013	2.87	0.2543	46.4
CO-191	154	663.28	153	631.50	943.1	0.034	8.0	0.013	2.89	0.0450	59.0
CO-192	152	676.00	156	674.17	322.2	0.006	6.0	0.013	1.01	0.0097	12.9
CO-193	338	693.00	339	683.00	782.3	0.013	8.0	0.013	1.65	0.0220	34.5
CO-194	151	675.20	154	663.28	1,070.0	0.011	8.0	0.013	1.48	0.0176	14.6
CO-195	339	683.00	340	688.00	493.5	0.010	8.0	0.013	3.48	0.3925	55.8
CO-196	150	678.72	149	655.42	1,104.9	0.021	6.0	0.013	2.02	0.0212	20.0
CO-197	339	683.00	341	679.33	137.1	0.027	8.0	0.013	5.06	0.4145	78.3
CO-198	149	655.42	163	633.00	909.9	0.025	6.0	0.013	2.46	0.0336	61.2
CO-199	341	679.33	305	678.88	140.1	0.003	12.0	0.013	2.91	1.1782	67.7
CO-200	22	651.05	342	658.95	617.7	0.013	8.0	0.013	4.21	0.5987	76.6
CO-201	41	639.00	39	622.00	438.3	0.039	8.0	0.013	3.61	0.0810	26.9
CO-202	148	680.50	147	659.89	736.3	0.028	6.0	0.013	1.90	0.0123	15.3
CO-203	147	659.89	146	650.80	495.2	0.018	6.0	0.013	1.91	0.0203	18.5
CO-204	146	650.80	145	646.00	329.3	0.015	6.0	0.013	1.90	0.0264	21.8
CO-205	145	646.00	162	634.50	453.5	0.025	6.0	0.013	2.57	0.0380	61.9
CO-206	346	689.42	340	688.00	142.3	0.010	8.0	0.013	3.46	0.3925	52.6
CO-207	347	698.78	346	689.42	937.7	0.010	8.0	0.013	1.72	0.0334	35.2
CO-208	144	672.16	143	662.41	374.8	0.026	6.0	0.013	1.49	0.0062	11.9
CO-209	348	692.79	346	689.42	337.1	0.010	8.0	0.013	3.39	0.3590	53.7
CO-210	143	662.41	142	651.77	460.6	0.023	6.0	0.013	1.85	0.0141	15.2
CO-211	349	697.65	348	692.79	485.6	0.010	8.0	0.013	2.17	0.0730	37.8
CO-212	142	651.77	141	645.63	435.8	0.014	6.0	0.013	1.66	0.0176	17.7
CO-213	350	702.37	349	697.65	472.0	0.010	8.0	0.013	1.77	0.0370	19.6
CO-214	141	645.63	161	636.92	486.9	0.018	6.0	0.013	2.02	0.0256	19.7
CO-215	351	708.52	350	702.37	615.0	0.010	8.0	0.013	1.77	0.0370	15.5

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CO-216	140	643.95	160	635.27	617.3	0.014	6.0	0.013	2.07	0.0370	25.9
CO-217	352	706.17	349	697.65	867.6	0.010	8.0	0.013	1.63	0.0282	18.6
CO-218	139	661.44	140	643.95	789.8	0.022	6.0	0.013	2.40	0.0352	23.2
CO-219	138	669.70	139	661.44	345.6	0.024	6.0	0.013	2.14	0.0220	20.5
CO-220	137	680.00	138	669.70	508.1	0.020	6.0	0.013	1.87	0.0167	16.8
CO-221	353	694.00	348	692.79	652.5	0.002	8.0	0.013	1.66	0.2763	60.8
CO-222	136	684.94	137	680.00	379.1	0.013	6.0	0.013	1.32	0.0088	13.5
CO-223	355	665.60	354	650.64	1,778.9	0.008	8.0	0.013	1.77	0.0449	57.7
CO-224	135	679.62	134	653.27	1,335.1	0.020	6.0	0.013	1.38	0.0062	16.3
CO-225	134	653.27	133	644.00	562.7	0.016	6.0	0.013	2.18	0.0361	21.0
CO-226	133	644.00	12th Street LS (Downtown)	622.00	549.6	0.040	6.0	0.013	2.98	0.0361	19.2
CO-227	356	667.08	320	648.58	2,402.2	0.008	8.0	0.013	2.04	0.0801	60.5
CO-228	132	627.15	12th Street LS (Downtown)	622.00	244.8	0.021	6.0	0.013	2.74	0.0592	26.3
CO-229	357	669.69	358	641.44	1,728.6	0.016	8.0	0.013	2.38	0.0554	60.0
CO-230	131	628.00	132	627.15	405.8	0.002	6.0	0.013	1.20	0.0592	35.6
CO-231	130	629.50	131	628.00	197.5	0.008	8.0	0.013	1.83	0.0574	25.6
CO-232	129	630.50	130	629.50	383.8	0.003	8.0	0.013	1.26	0.0574	23.0
CO-233	128	631.00	129	630.50	153.7	0.003	8.0	0.013	1.18	0.0359	22.4
CO-234	360	665.00	359	651.40	1,183.8	0.011	8.0	0.013	1.61	0.0229	25.4
CO-235	127	632.00	128	631.00	351.8	0.003	8.0	0.013	1.08	0.0305	18.8
CO-236	362	677.92	361	675.46	471.7	0.005	12.0	0.013	3.56	1.1914	60.6
CO-237	126	633.00	127	632.00	344.4	0.003	8.0	0.013	1.05	0.0269	17.7
CO-238	5	689.00	363	715.00	673.2	0.039	8.0	0.013	2.42	0.0211	29.6

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CO-239	125	634.00	126	633.00	179.5	0.006	8.0	0.013	0.99	0.0108	13.3
CO-240	364	712.00	2	688.00	890.5	0.027	8.0	0.013	3.12	0.0766	33.7
CO-241	124	634.50	125	634.00	212.1	0.002	8.0	0.013	0.66	0.0072	9.5
CO-242	365	714.00	364	712.00	276.5	0.007	8.0	0.013	1.83	0.0598	22.2
CO-243	123	635.37	126	633.00	321.6	0.007	8.0	0.013	1.05	0.0090	12.6
CO-244	366	715.00	365	714.00	306.0	0.003	8.0	0.013	1.03	0.0220	17.9
CO-245	122	635.00	127	632.00	178.5	0.017	8.0	0.013	0.84	0.0018	11.0
CO-246	367	726.00	366	715.00	807.7	0.014	8.0	0.013	1.63	0.0194	13.4
CO-247	121	635.41	127	632.00	173.3	0.020	8.0	0.013	0.89	0.0018	11.0
CO-248	368	700.00	7	694.00	460.6	0.013	8.0	0.013	2.16	0.0528	30.8
CO-249	120	635.00	128	631.00	150.1	0.027	8.0	0.013	1.40	0.0054	12.7
CO-250	369	718.00	368	700.00	841.0	0.021	8.0	0.013	1.88	0.0185	15.5
CO-251	119	634.00	126	633.00	500.8	0.002	8.0	0.013	0.62	0.0072	13.5
CO-252	370	713.00	368	700.00	1,071.5	0.012	8.0	0.013	1.70	0.0255	16.5
CO-253	118	627.79	117	626.32	289.7	0.005	8.0	0.013	0.55	0.0018	3.9
CO-254	371	700.00	7	694.00	1,023.4	0.006	8.0	0.013	1.99	0.1038	35.2
CO-255	117	626.32	116	618.45	198.6	0.040	6.0	0.013	1.19	0.0018	13.4
CO-256	372	711.50	371	700.00	310.2	0.037	8.0	0.013	2.85	0.0387	22.4
CO-257	115	621.81	116	618.45	445.2	0.008	6.0	0.013	1.54	0.0283	21.1
CO-258	373	723.00	372	711.50	1,099.7	0.010	8.0	0.013	1.56	0.0229	14.7
CO-259	114	623.31	115	621.81	233.6	0.006	6.0	0.013	1.33	0.0213	19.4
CO-260	374	713.00	372	711.50	582.4	0.003	8.0	0.013	0.80	0.0123	14.3
CO-261	113	628.33	114	623.31	342.6	0.015	6.0	0.013	1.41	0.0097	15.1
CO-262	421	703.00	371	700.00	712.0	0.004	8.0	0.013	1.44	0.0510	24.8
CO-263	375	728.00	421	703.00	1,201.3	0.021	8.0	0.013	2.42	0.0440	19.6
CO-264	1	698.09	376	696.53	355.3	0.004	8.0	0.013	1.77	0.1003	33.9
CO-265	112	615.01	111	611.01	237.9	0.017	6.0	0.013	1.59	0.0123	15.7
CO-266	420	703.53	376	696.53	605.5	0.012	8.0	0.013	2.28	0.0730	30.5
CO-267	377	706.51	420	703.53	298.4	0.010	8.0	0.013	1.98	0.0537	21.3
CO-268	111	611.01	110	608.70	275.6	0.008	6.0	0.013	1.48	0.0220	25.3

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CO-269	378	713.85	377	706.51	733.8	0.010	8.0	0.013	1.64	0.0282	16.9
CO-270	110	608.70	109	604.00	344.3	0.014	6.0	0.013	2.48	0.0705	30.1
CO-271	379	714.15	377	706.51	764.5	0.010	8.0	0.013	1.59	0.0255	16.6
CO-272	380	719.51	378	713.85	565.7	0.010	8.0	0.013	1.11	0.0079	10.8
CO-273	109	604.00	Meadowlands LS	575.00	387.8	0.075	6.0	0.013	4.51	0.0705	25.4
CO-275	116	618.45	108	614.00	188.1	0.024	6.0	0.013	2.38	0.0318	23.3
CO-276	376	696.53	381	694.75	339.3	0.005	8.0	0.013	2.21	0.1734	43.5
CO-277	108	614.00	110	608.70	259.6	0.020	6.0	0.013	2.45	0.0415	28.8
CO-278	381	694.75	382	703.00	251.3	0.033	8.0	0.013	2.76	0.0405	33.0
CO-279	107	614.58	110	608.70	315.6	0.019	6.0	0.013	1.40	0.0070	21.4
CO-280	419	707.83	382	703.00	385.6	0.013	8.0	0.013	1.97	0.0405	15.8
CO-281	383	719.54	419	707.83	1,171.0	0.010	8.0	0.013	1.67	0.0299	15.8
CO-282	418	708.77	381	694.75	473.6	0.030	8.0	0.013	2.71	0.0422	33.2
CO-283	384	719.84	418	708.77	1,106.7	0.010	8.0	0.013	1.65	0.0290	15.9
CO-284	385	685.81	341	679.33	484.7	0.013	12.0	0.013	4.53	0.7637	59.9
CO-285	105	622.00	104	617.00	414.5	0.012	8.0	0.013	1.22	0.0088	8.6
CO-286	386	687.25	385	685.81	641.4	0.002	12.0	0.013	2.27	0.6863	51.7
CO-287	104	617.00	103	615.00	206.6	0.010	8.0	0.013	1.26	0.0123	13.3
CO-288	387	688.61	386	687.25	444.9	0.003	12.0	0.013	2.42	0.5502	51.7
CO-289	103	615.00	102	609.00	1,139.8	0.005	8.0	0.013	1.42	0.0370	16.8
CO-290	388	693.02	390	692.34	257.6	0.003	12.0	0.013	2.23	0.4959	52.6
CO-291	102	609.00	101	608.00	117.7	0.008	8.0	0.013	1.68	0.0370	16.3
CO-292	389	710.00	388	693.02	1,344.6	0.013	8.0	0.013	1.83	0.0308	41.3
CO-293	101	608.00	100	607.00	152.9	0.007	8.0	0.013	1.53	0.0370	19.8
CO-294	100	607.00	99	604.00	533.6	0.006	8.0	0.013	1.75	0.0695	24.3
CO-295	99	604.00	98	600.83	341.8	0.009	8.0	0.013	2.24	0.0889	30.4
CO-296	390	692.34	387	692.22	161.6	0.001	12.0	0.013	1.37	0.4959	48.3
CO-297	98	600.83	97	600.00	397.2	0.002	8.0	0.013	1.34	0.0959	31.5
CO-298	391	695.51	388	693.02	1,082.9	0.002	12.0	0.013	2.08	0.4651	45.2

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CO-299	97	600.00	96	597.00	421.0	0.007	8.0	0.013	2.14	0.1047	28.3
CO-300	392	696.28	391	695.51	286.3	0.003	12.0	0.013	2.17	0.4378	43.6
CO-301	96	597.00	95	592.25	458.7	0.010	8.0	0.013	2.50	0.1144	27.3
CO-302	393	696.97	392	696.28	250.7	0.003	12.0	0.013	2.16	0.4184	41.3
CO-303	95	592.25	Meadowlands LS	575.00	518.3	0.033	8.0	0.013	3.78	0.1144	24.1
CO-304	394	697.75	393	696.97	281.7	0.003	12.0	0.013	2.14	0.3991	40.1
CO-305	106	619.36	94	614.07	439.9	0.012	6.0	0.013	1.59	0.0185	17.9
CO-306	395	700.29	394	697.75	850.9	0.003	10.0	0.013	1.69	0.1461	38.4
CO-307	94	614.07	100	607.00	458.6	0.015	6.0	0.013	1.92	0.0255	25.2
CO-308	396	702.14	395	700.29	698.9	0.003	10.0	0.013	1.34	0.0766	25.7
CO-309	397	702.95	396	702.14	269.9	0.003	10.0	0.013	1.34	0.0651	20.7
CO-310	93	617.16	99	604.00	836.4	0.016	6.0	0.013	1.68	0.0158	24.6
CO-311	92	615.00	91	604.57	476.8	0.022	6.0	0.013	1.43	0.0062	10.7
CO-312	398	731.00	397	702.95	849.2	0.033	8.0	0.013	2.36	0.0238	18.7
CO-313	91	604.57	96	597.00	216.8	0.035	6.0	0.013	1.92	0.0097	25.2
CO-314	90	635.00	89	634.00	343.2	0.003	8.0	0.013	1.81	0.1849	41.7
CO-315	399	707.85	395	700.29	435.5	0.017	8.0	0.013	2.60	0.0695	29.6
CO-316	89	634.00	88	630.05	411.2	0.010	8.0	0.013	2.80	0.1849	35.3
CO-317	88	630.05	87	625.84	523.1	0.008	8.0	0.013	2.62	0.1849	36.1
CO-318	400	709.00	399	707.85	271.3	0.004	8.0	0.013	1.58	0.0695	23.7
CO-319	87	625.84	189	620.00	375.6	0.016	8.0	0.013	3.32	0.1849	68.5
CO-320	86	669.00	179	665.00	760.4	0.005	8.0	0.013	0.70	0.0036	48.2
CO-321	85	675.00	177	668.00	890.7	0.008	10.0	0.013	3.41	0.5287	69.2
CO-322	401	723.00	394	697.75	1,998.2	0.013	8.0	0.013	3.32	0.2424	51.0
CO-323	84	682.00	85	675.00	564.1	0.012	8.0	0.013	4.02	0.5146	59.3
CO-324	402	741.00	401	723.00	1,418.8	0.013	8.0	0.013	2.65	0.1087	35.4
CO-325	83	686.00	84	682.00	209.2	0.019	8.0	0.013	4.38	0.3834	58.8
CO-326	403	744.00	402	741.00	790.9	0.004	8.0	0.013	1.47	0.0620	26.2
CO-327	82	686.50	83	686.00	151.9	0.003	8.0	0.013	2.23	0.3808	62.6

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CO-328	404	755.00	403	744.00	836.8	0.013	8.0	0.013	1.61	0.0194	18.0
CO-329	81	687.00	82	686.50	133.5	0.004	8.0	0.013	2.34	0.3755	68.8
CO-330	405	753.00	403	744.00	588.3	0.015	8.0	0.013	1.66	0.0185	17.9
CO-331	80	688.00	83	686.00	320.5	0.006	8.0	0.013	0.67	0.0026	29.5
CO-332	406	732.00	401	723.00	1,155.9	0.008	8.0	0.013	2.36	0.1338	37.0
CO-333	407	736.00	406	732.00	664.2	0.006	8.0	0.013	2.02	0.1056	29.8
CO-334	78	661.50	79	659.00	324.9	0.008	8.0	0.013	2.26	0.1153	29.5
CO-335	408	737.00	407	736.00	270.9	0.004	8.0	0.013	1.44	0.0598	26.1
CO-336	77	662.00	78	661.50	50.3	0.010	8.0	0.013	2.44	0.1100	28.7
CO-337	409	757.00	408	737.00	1,140.8	0.018	8.0	0.013	2.12	0.0343	19.8
CO-338	76	665.00	77	662.00	485.5	0.006	8.0	0.013	1.54	0.0405	22.9
CO-339	410	755.00	408	737.00	1,141.4	0.016	8.0	0.013	1.86	0.0255	18.7
CO-340	75	669.00	76	665.00	475.3	0.008	8.0	0.013	1.63	0.0343	16.5
CO-341	411	740.00	397	702.95	1,072.5	0.035	8.0	0.013	2.83	0.0414	20.8
CO-342	74	672.00	75	669.00	401.4	0.007	8.0	0.013	1.46	0.0273	14.8
CO-346	413	711.00	394	697.75	639.1	0.021	8.0	0.013	1.56	0.0106	34.0
CO-347	414	705.00	393	696.97	610.2	0.013	8.0	0.013	1.61	0.0194	36.3
CO-348	415	702.50	392	696.28	607.9	0.010	8.0	0.013	1.47	0.0194	37.3
CO-349	73	698.00	72	696.00	255.4	0.008	6.0	0.013	0.83	0.0035	9.6
CO-350	416	715.47	4	703.96	1,151.0	0.010	8.0	0.013	1.77	0.0370	17.8
CO-351	72	696.00	71	682.00	576.3	0.024	6.0	0.013	1.68	0.0097	13.9
CO-352	417	712.02	3	700.75	1,127.0	0.010	8.0	0.013	1.73	0.0334	17.9
CO-353	71	682.00	70	674.00	390.1	0.021	8.0	0.013	1.89	0.0202	13.3
CO-354	422	639.60	203	639.30	133.7	0.002	8.0	0.013	0.42	0.0018	76.1
CO-355	70	674.00	69	672.22	263.7	0.007	8.0	0.013	1.45	0.0299	17.8
CO-356	423	643.00	424	625.81	1,116.5	0.015	8.0	0.013	2.83	0.1080	60.0
CO-357	205	613.90	425	612.00	43.1	0.044	8.0	0.013	4.23	0.1188	23.9
CO-358	426	606.67	427	605.83	294.4	0.003	36.0	0.013	5.22	13.2791	54.6
CO-359	427	605.83	428	604.98	300.8	0.003	36.0	0.013	5.20	13.2791	52.0
CO-360	68	691.50	69	672.22	1,223.9	0.016	6.0	0.013	1.73	0.0176	22.0

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CO-361	428	604.98	429	604.14	212.1	0.004	36.0	0.013	5.91	13.2791	58.3
CO-362	429	604.14	430	603.75	203.9	0.002	36.0	0.013	4.47	13.2791	69.6
CO-363	67	686.00	66	671.00	1,226.7	0.012	6.0	0.013	1.59	0.0176	23.0
CO-364	430	603.75	431	603.57	84.1	0.002	36.0	0.013	4.77	14.6083	73.3
CO-365	431	603.57	432	603.16	317.5	0.001	36.0	0.013	3.86	14.6083	73.4
CO-366	69	672.22	66	671.00	273.5	0.004	8.0	0.013	1.46	0.0502	21.7
CO-367	66	671.00	77	662.00	275.9	0.033	8.0	0.013	3.24	0.0695	25.4
CO-368	432	603.16	433	602.41	556.6	0.001	36.0	0.013	3.93	14.6083	61.7
CO-369	433	602.41	Justin Treatment Plant	596.00	189.0	0.034	36.0	0.013	13.25	14.6083	40.0
CO-370	65	684.00	208	681.50	426.9	0.006	8.0	0.013	1.34	0.0273	17.4
CO-371	434	688.76	438	670.33	2,927.0	0.006	21.0	0.013	5.37	4.5387	58.2
CO-372(1)	438	670.33	460	664.17	1,000.5	0.006	21.0	0.013	5.51	5.2358	62.9
CO-372(2)	460	664.17	435	635.85	4,596.4	0.006	21.0	0.013	5.69	6.1263	72.4
CO-373	64	686.50	65	684.00	448.6	0.006	8.0	0.013	1.14	0.0167	13.1
CO-374	435	635.85	436	628.55	1,213.7	0.006	30.0	0.013	6.57	10.8931	62.5
CO-375	63	691.00	64	686.50	258.3	0.017	8.0	0.013	1.20	0.0053	8.9
CO-376	436	628.55	437	627.00	630.3	0.002	30.0	0.013	4.63	10.9092	62.6
CO-377	62	688.00	64	686.50	95.2	0.016	8.0	0.013	0.82	0.0018	7.6
CO-378(1)	437	627.00	473	626.31	134.1	0.005	30.0	0.013	6.21	10.9092	55.6
CO-378(2)	473	626.31	323	619.50	1,317.2	0.005	30.0	0.013	6.21	10.9419	62.0
CO-379	61	691.00	60	686.00	484.7	0.010	8.0	0.013	1.24	0.0106	10.2
CO-380	240	702.58	337	706.45	884.6	0.004	8.0	0.013	1.74	0.0950	30.6
CO-381	60	686.00	59	683.50	313.1	0.008	8.0	0.013	1.35	0.0194	12.1
CO-382	280	606.77	Timberbrooks LS	606.50	58.8	0.005	15.0	0.013	3.66	1.5622	51.4
CO-383	59	683.50	208	681.50	258.1	0.008	8.0	0.013	1.39	0.0220	16.3
CO-384	439	682.54	441	675.45	178.5	0.040	15.0	0.013	6.15	0.6204	24.6
CO-385	441	675.45	438	670.33	345.8	0.015	15.0	0.013	4.34	0.6204	57.6

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CO-386	58	689.97	60	686.00	174.0	0.023	8.0	0.013	0.94	0.0018	7.6
CO-387	440	686.12	439	682.54	300.9	0.012	15.0	0.013	4.02	0.6204	27.9
CO-388	57	681.00	56	668.31	413.5	0.031	8.0	0.013	1.83	0.0114	7.7
CO-390	56	668.31	55	665.37	237.4	0.012	8.0	0.013	1.35	0.0114	10.8
CO-392	54	678.00	55	665.37	306.6	0.041	8.0	0.013	1.88	0.0088	10.3
CO-394	53	677.22	52	666.26	424.4	0.026	8.0	0.013	1.76	0.0123	10.1
CO-396	51	672.00	52	666.26	215.7	0.027	8.0	0.013	1.14	0.0026	7.6
CO-398	50	681.00	49	674.00	385.5	0.018	8.0	0.013	1.49	0.0106	9.3
CO-401	49	674.00	225	669.14	252.1	0.019	8.0	0.013	1.68	0.0141	22.9
CO-408	47	676.59	46	659.46	1,248.2	0.014	8.0	0.013	1.91	0.0326	19.3
CO-410	48	677.33	45	651.86	997.6	0.026	8.0	0.013	2.01	0.0185	18.2
CO-413	46	659.46	344	670.00	702.0	0.015	8.0	0.013	1.75	0.0220	17.9
CO-414	343	670.00	45	651.86	985.0	0.018	8.0	0.013	1.92	0.0238	18.9
CO-416	44	629.32	204	627.53	373.1	0.005	8.0	0.013	2.24	0.2086	41.3
CO-418	45	651.86	43	630.25	914.1	0.024	8.0	0.013	3.08	0.0854	33.8
CO-420	43	630.25	44	629.32	188.0	0.005	8.0	0.013	2.27	0.2086	42.9
CO-422	52	666.26	42	647.00	256.6	0.075	8.0	0.013	2.81	0.0167	8.6
CO-424	42	647.00	41	639.00	365.7	0.022	8.0	0.013	1.84	0.0167	17.5
CO-426	312	645.00	40	641.95	208.3	0.015	8.0	0.013	2.02	0.0361	14.7
CO-428	40	641.95	39	622.00	373.0	0.053	8.0	0.013	3.17	0.0361	22.8
CO-430	39	622.00	205	613.90	413.0	0.020	8.0	0.013	3.18	0.1188	25.9
CO-431	38	621.00	93	617.16	148.3	0.026	6.0	0.013	1.15	0.0026	10.7
CO-432	37	621.00	106	619.36	208.5	0.008	6.0	0.013	0.68	0.0018	10.9
CO-433	36	624.00	108	614.00	405.8	0.025	6.0	0.013	1.60	0.0079	17.8
CO-434	35	624.00	106	619.36	483.3	0.010	6.0	0.013	1.18	0.0088	13.9
CO-435	34	626.99	112	615.01	303.4	0.039	12.0	0.013	1.64	0.0070	5.5
CO-436	33	662.09	183	649.00	1,015.0	0.013	6.0	0.013	1.45	0.0123	56.7
CO-437	32	669.74	182	650.00	1,097.2	0.018	6.0	0.013	1.76	0.0158	57.6
CO-438	31	649.81	171	646.05	291.6	0.013	6.0	0.013	0.99	0.0035	10.7
CO-439	30	641.00	172	639.48	265.3	0.006	6.0	0.013	0.76	0.0036	12.6

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CO-440	29	658.29	28	638.00	776.5	0.026	6.0	0.013	1.58	0.0071	10.7
CO-441	28	638.00	27	637.33	55.4	0.012	6.0	0.013	1.28	0.0089	10.8
CO-442	27	637.33	167	629.20	165.0	0.049	6.0	0.013	2.09	0.0089	55.7
CO-443	26	656.00	185	645.00	726.4	0.015	6.0	0.013	1.57	0.0132	56.9
CO-444	25	639.27	173	626.80	539.7	0.023	6.0	0.010	1.94	0.0088	55.6
CO-445	24	633.00	131	628.00	139.7	0.036	8.0	0.013	1.11	0.0018	17.2
CO-446	23	632.98	129	630.50	282.6	0.009	8.0	0.013	0.68	0.0018	14.6
CO-447	160	635.27	12th Street LS (Downtown)	622.00	328.5	0.040	8.0	0.013	3.39	0.0626	17.4
CO-448(1)	22	651.05	477	648.99	743.5	0.003	10.0	0.013	2.35	0.5987	71.5
CO-448(2)	477	648.99	292	647.93	381.5	0.003	10.0	0.013	2.40	0.6819	76.3
CO-449	21	641.91	358	641.44	147.6	0.003	15.0	0.013	3.14	1.4756	59.1
CO-450	358	641.44	202	640.44	347.3	0.003	15.0	0.013	3.04	1.5381	62.5
CO-452	20	696.00	19	693.50	751.8	0.003	8.0	0.013	2.18	0.3271	56.6
CO-453	19	693.50	18	688.75	321.3	0.015	8.0	0.013	3.82	0.3271	54.5
CO-454	17	660.12	359	651.40	1,003.1	0.009	8.0	0.013	2.58	0.1584	36.2
CO-455	359	651.40	202	640.44	551.3	0.020	8.0	0.013	3.68	0.1945	69.0
CO-456	18	688.75	81	687.00	325.0	0.005	8.0	0.013	2.71	0.3755	62.9
CO-461(1)	16	683.00	475	673.00	1,603.5	0.006	8.0	0.013	2.31	0.1644	45.3
CO-461(2)	475	673.00	342	658.95	2,244.4	0.006	8.0	0.013	2.85	0.3659	61.9
CO-462	320	648.58	21	641.91	866.7	0.008	12.0	0.013	4.34	1.4756	68.2
CO-464	14	677.74	285	665.28	1,010.6	0.012	8.0	0.013	1.46	0.0150	12.5
CO-465	79	659.00	12th Street LS (Private)	645.00	403.8	0.035	8.0	0.013	3.92	0.1223	24.8
CO-466	13	636.61	12	626.00	1,177.1	0.009	8.0	0.013	0.85	0.0036	6.1
CO-467	12	626.00	114	623.31	227.5	0.012	8.0	0.013	1.14	0.0072	10.5

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CO-468	11	635.83	12	626.00	1,238.6	0.008	8.0	0.013	0.81	0.0036	6.2
CO-469	10	611.22	9	600.00	731.6	0.015	10.0	0.013	1.76	0.0240	9.0
CO-470	9	600.00	8	597.00	587.0	0.005	18.0	0.013	1.10	0.0240	28.0
CO-471	8	597.00	Justin Treatment Plant	596.00	132.8	0.008	24.0	0.013	5.14	3.0484	35.8
CO-474	425	609.57	426	606.67	473.4	0.006	30.0	0.013	6.90	13.0037	63.1
CO-475	189	620.00	8	597.00	298.0	0.077	18.0	0.013	12.11	3.0244	41.2
CO-476	7	694.00	6	692.50	512.8	0.003	8.0	0.013	1.73	0.1566	41.5
CO-477	6	692.50	5	689.00	1,067.3	0.003	8.0	0.013	1.81	0.1566	43.9
CO-478	4	703.96	1	698.09	835.9	0.007	8.0	0.013	1.74	0.0519	24.6
CO-479	5	689.00	2	688.00	386.2	0.003	8.0	0.013	1.71	0.1778	45.4
CO-480	2	688.00	336	677.25	291.3	0.037	8.0	0.013	4.96	0.2543	35.8
CO-481	3	700.75	1	698.09	564.1	0.005	8.0	0.013	1.47	0.0484	25.1
CO-482	381	694.75	353	694.00	162.1	0.005	8.0	0.013	2.33	0.2561	59.0
CO-483	464	718.00	456	673.00	3,406.4	0.013	15.0	0.013	6.64	3.5921	80.8
CO-484(1)	443	713.00	461	703.00	1,147.3	0.009	18.0	0.013	5.63	3.3686	61.3
CO-484(2)(1)	461	703.00	468	694.90	932.8	0.009	18.0	0.013	5.85	3.9861	82.0
CO-484(2)(2)	468	694.90	434	688.76	708.0	0.009	15.0	0.013	5.47	4.3357	91.7
CO-485	444	798.00	445	733.00	3,754.3	0.017	8.0	0.013	4.68	0.5721	83.4
CO-486	445	733.00	443	713.00	2,582.5	0.008	15.0	0.013	5.13	2.8993	69.5
CO-487(1)	446	787.00	466	772.00	1,496.7	0.010	8.0	0.013	1.82	0.0405	29.2
CO-487(2)	466	772.00	447	770.00	511.4	0.004	8.0	0.013	1.99	0.1754	46.2
CO-488	447	770.00	456	673.00	7,808.9	0.012	8.0	0.013	3.62	0.3401	75.5
CO-489	448	718.00	461	703.00	2,042.7	0.007	8.0	0.013	3.16	0.4363	79.4
CO-490	455	758.00	453	728.00	3,435.9	0.009	10.0	0.013	4.21	1.1268	85.6
CO-491	450	750.00	445	733.00	4,077.0	0.004	12.0	0.013	3.18	1.0559	74.1
CO-492	451	688.00	452	648.00	3,066.6	0.013	15.0	0.013	6.17	2.6405	71.8

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CO-493(1)	452	648.00	463	638.00	2,294.5	0.004	18.0	0.013	4.32	3.3993	65.6
CO-493(2)	463	638.00	479	628.00	2,274.3	0.004	21.0	0.013	4.59	4.1752	56.9
CO-495	453	728.00	Soutwest ETJ LS	723.00	1,858.5	0.003	10.0	0.013	4.46	1.5732	91.6
CO-496	454	728.00	448	718.00	2,028.8	0.005	8.0	0.013	2.62	0.3762	59.8
CO-497	449	791.00	455	758.00	3,220.1	0.010	8.0	0.013	3.90	0.6410	79.9
CO-498	456	673.00	435	635.85	2,699.9	0.014	15.0	0.013	7.02	4.5837	92.6
CO-499	457	673.00	436	628.55	1,440.5	0.031	8.0	0.013	2.04	0.0161	55.3
CO-500	458	688.00	456	673.00	1,524.1	0.010	8.0	0.013	3.49	0.4116	78.2
CO-501	459	610.50	281	607.50	710.1	0.004	12.0	0.013	1.97	0.1737	23.1
CO-502	462	673.00	463	638.00	2,294.2	0.015	8.0	0.013	3.57	0.2464	71.5
CO-503	442	768.00	464	718.00	5,429.8	0.009	15.0	0.013	5.71	3.5921	75.2
CO-504	466	772.00	465	779.00	1,610.0	0.004	8.0	0.013	1.92	0.1349	38.2
CO-505	467	718.00	468	694.90	1,438.6	0.016	8.0	0.013	4.01	0.3496	75.9
CO-506	469	688.00	386	687.25	1,306.5	0.001	12.0	0.013	0.90	0.1361	45.7
CO-507	471	678.00	438	670.33	239.6	0.032	12.0	0.013	3.15	0.0766	57.0
CO-508	470	665.00	342	658.95	1,684.8	0.004	8.0	0.013	1.92	0.1728	55.3
CO-509	472	678.00	176	669.00	1,604.9	0.006	10.0	0.013	3.13	0.6247	63.4
CO-510	474	627.00	473	626.31	61.0	0.011	12.0	0.013	1.69	0.0327	84.9
CO-511	476	649.50	477	648.99	569.4	0.001	8.0	0.013	0.95	0.0832	68.4
CO-512	478	617.00	484	590.00	4,651.4	0.006	10.0	0.013	3.44	0.9312	85.8
CO-513	479	628.00	480	623.00	1,166.6	0.004	21.0	0.013	4.55	4.1752	61.1
CO-514	480	623.00	481	600.00	5,501.6	0.004	21.0	0.013	4.68	5.0182	65.6
CO-515	481	600.00	482	593.00	1,674.0	0.004	21.0	0.013	4.70	5.1182	83.0
CO-516	482	593.00	North ETJ	592.00	133.2	0.008	15.0	0.013	6.57	5.2116	94.7
CO-517	483	600.00	482	593.00	913.7	0.008	8.0	0.013	2.12	0.0934	63.0
CO-519	485	604.00	484	590.00	2,998.4	0.005	12.0	0.013	3.46	1.3029	84.7
CO-520	484	590.00	Denton Creek SS	589.00	171.3	0.006	12.0	0.013	4.40	2.2341	89.7

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CO-521	486	619.00	487	615.00	1,826.2	0.002	12.0	0.013	1.78	0.2780	30.9
CO-522	487	615.00	280	606.77	274.1	0.030	12.0	0.013	4.52	0.2780	46.7

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FlexTable: Outfall Table

Label	Elevation (Ground) (ft)	Elevation (Invert) (ft)	Flow (Total Out) (MGD)
Meadowlands LS	600.74	575.00	0.1849
12th Street LS (Private)	666.05	645.00	0.1223
12th Street LS (Downtown)	637.00	622.00	0.1579
Timberbrooks LS	626.50	606.50	1.5622
Justin Treatment Plant	616.27	596.00	17.6567
Soutwest ETJ LS	730.00	723.00	1.5732
Denton Creek SS	600.00	589.00	2.2341
North ETJ	620.00	592.00	5.2116

WATER MASTER PLAN

CITY OF JUSTIN, TEXAS

JULY 2024

PREPARED FOR:

City of Justin, Texas

PREPARED BY:

Westwood

Westwood

City of Justin, Texas

Water Masterplan

City of Justin, Texas

Prepared For:

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Westwood

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1 Introduction

1.1 Purpose

This report provides an update to the January 2021 Water Master Plan prepared by Pacheco Koch for The City of Justin, Texas (COJ). The City of Justin is a fast-growing city near the Dallas Forth Worth Metroplex area in Texas. COJ acquired Extraterritorial Jurisdiction (ETJ) over an external territory which is rapidly being developed and will require water infrastructure improvements to accommodate its growth. This water master plan was prepared for an existing condition including proposed developments to be fully constructed by 2028, and a future condition including a full buildout for the City of Justin and the Extraterritorial Jurisdiction.

The information presented in this report is at a planning level only and should not be considered the final design of the proposed water system. Details of the proposed infrastructure facilities will require refinement as the detailed parcel layouts and roadway plans are developed.

1.2 Contributing Land and Corresponding Land Use Analysis

Assumptions for land use of land contributing to water system demands are listed below and shown on Figure 1 – Land Use Plan in Appendix A.

Existing:

- For all developed land existing land use was assumed, and for submitted/approved plans planned land uses were assumed.
- Existing Homes within ETJ are assumed to be on separate well systems and will not be connected to the water infrastructure in the future.

Future:

- The assumed land uses for future development were either single family residential (SFR) or commercial.
- Parcels directly adjacent to the FM 401 were assumed future commercial and all other land was assumed SFR.

The model was updated using submitted development plans, current NearMap aerials, and the City of Justin existing infrastructure GIS.

1.3 Water Master Planning Assumptions

This section summarizes the design criteria and general assumptions made to develop a hydraulic model and design requirements of proposed water infrastructure:

- A design criterion was established by evaluating adjacent city design standards, existing usage data from the City of Justin, and the Texas Administrative Code.
- This update considers the existing and approved water systems.
- Node elevations used are based on existing grades, proposed street grades and lot elevations.
- Fire flow criteria for proposed developments were assumed to be 1,500 gpm for residential and commercial land use.
- Hazen Williams coefficient of 110 was assumed for all pipelines.

- This analysis assumes that a new Upper Trinity Regional Water District delivery point will supply the 905 water pressure zone directly at the Timberbrook ground storage.

1.4 Design Criteria

This report will propose water infrastructure as a function of the following hydraulic design parameters.

Pressure Requirements:

Per the Texas Administrative Code, the system must be designed to support a minimum pressure of 35 psi at all points within the distribution network, and during fire events the system must maintain a minimum pressure of 20 psi.

Storage Requirements:

Per the Texas Administrative Code, system over 250 connections require a total storage capacity of 200 gallons per connection and systems over 2,500 connections require an elevated storage capacity of 100 gallons per connection.

Pumping Requirements:

Per the Texas Administrative Code, it is required to have two or more pumps with a capacity of 0.6 gpm per connection or a total capacity of at least 1,000 gpm and the ability to meet peak hour demands.

Fire Flow:

Minimum fire flow availability of 1,500 gpm at each hydrant located in single-family residential areas, non-residential or multi-family residential areas.

2 Water Master Plan

To model future infrastructure for the City of Justin, monthly meter billing data for 2021-2022 was obtained from the city. The data was extrapolated to determine average water usage at each connection.

Demands in the existing model were not adjusted and assumed to be accurate based on previous meter data. Units from the existing model were estimated using the previously submitted water master plan for the City of Justin. Base demands placed at junctions were divided by the average usage per connection (0.14 gpm) estimated for the billing data for 2019-2020.

Additionally, the water master plan update prepared in 2021 utilized an average usage per connection of 0.17 gpm for the Timberbrook development. A portion of Timberbrook was analyzed with a flow of 0.17gpm per connection.

For all unit demands a maximum day and peak hour peaking factor of 1.9 and 2.5 were used, respectively. See Table 2-1 for a summary of all unit demands calculated.

TABLE 2-1 UNIT DEMANDS

Unit Demand	gpm/connection
Commercial 2024	0.41
Commercial Max Day 2024	0.78
Residential 2024	0.31
Residential Max Day 2024	0.59
Bill Average	0.14
Bill Average Max Day	0.27
Timberbrook PK 2021	0.17
Timberbrook PK Max Day 2021	0.32

2.1 Water Pressure Zone Boundaries

The City of Justin contains two (2) water pressure zones: 832 WPZ and 905 WPZ. The water pressure zones are based on static pressure bands summarized in Table 2-2. See Figure 2 – Water Pressure Zone Map for the City of Justin's water service pressure planes.

TABLE 2-2 WATER PRESSURE ZONE – STATIC PRESSURE BANDS

Zone	Highest Elevation (ft)	Lowest Pressure @ minimum storage level (psi)	Lowest Elevation (ft)	Highest Pressure @ maximum storage level (psi)
832	690	48.48	590	104.76
905	790	36.79	690	93.07

2.2 Existing Water Demand Flow Rates

The units modeled for the existing water system and their corresponding demands are summarized per water pressure zone in Table 2-3.

TABLE 2-3 EXISTING WATER SYSTEM DEMANDS

Zone	Units	Avg Day	Max Day	Peak Hour [1]
832	3,305.24	565.95	1,078.12	1,414.87
905	2,375.88	714.75	1,360.12	1,786.87
Total	**5,681.12**	**1,280.70**	**2,438.24**	**3,201.74**

[1] Peak hour peaking factor was assumed to be 2.5 times the average day demand.

2.3 Future Water Demand Flow Rates

The units modeled for the future water system and their corresponding demands are summarized per water pressure zone in Table 2-4.

TABLE 2-4 FUTURE WATER SYSTEM DEMANDS

Zone	Units	Avg Day	Max Day	Peak Hour
832	7,881.19	2,082.76	3,773.35	5,206.91
905	20,450.06	6,456.54	12,456.24	16,141.35
Total	**28,331.25**	**8,539.30**	**16,229.59**	**21,348.25**

[1] Peak hour peaking factor was assumed to be 2.5 times the average day demand.

2.4 Storage Capacity

Existing Storage

The current storage of the COJ consists of three (3) elevated tanks with a total of 1.6 million gallons of storage capacity and two (2) ground storage tanks with a total of 1.5 million gallons of storage capacity. See Table 2-5 for locations, volumes, elevations, and corresponding water pressure zones.

TABLE 2-5 EXISTING STORAGE CAPACITY

Elevated Storage Location	Volume (gal)	WPZ	Max level (ft)	Min level (ft)	Ground Elevation
Snyder St	300,000	832	832	802	657.7
Reatta Dr	300,000	832	832	802	665.4
W 7th Street	1,000,000	905	905	874	730
SUBTOTAL	**1,600,000**				
Ground Storage Location	**Volume (gal)**	**WPZ**	**Max level (ft)**	**Min level (ft)**	**Ground Elevation**
4th St	500,000	832	670	640	640
W 7th Street	1,000,000	905	760	730	730
SUBTOTAL	**1,500,000**				
TOTAL	**3,100,000**				

The City of Justin currently meets the storage requirements set forth by the Texas Administrative Code (TAC). See Table 2-6 for a summary of system compliance.

TABLE 2-6 STORAGE SYSTEM COMPLIANCE

Existing	Compliance Assessment	WPZ	Number of Connections	TAC Capacity Requirement / connection		Required Amount		Actual Amount		System Compliant
Storage	Total Storage	832	3,305	200	gal/conn	661,048	gal	1,100,000	gal	TRUE
		905	2,376			475,177	gal	2,000,000	gal	TRUE
	Elevated Storage	832	3,305	100	gal/conn	330,524	gal	600,000	gal	TRUE
		905	2,376			237,588	gal	1,000,000	gal	TRUE

Future Storage

For the buildout scenario the City of Justin will require storage upgrades to meet storage requirements. See table 2-7 for proposed supplemental storage at the city buildout.

TABLE 2-7 REQUIRED STORAGE VOLUMES

Proposed	Volume (gal)	WPZ
EST	188,119	832
EST	1,045,006	905
GST	288,119	832
GST	1,045,006	905

2.5 Pump Capacity

The TAC requires a water system to have a pump capacity equivalent to the peak hour demands of the system; or to have a storage capacity of 200 gallons per connection and two service pumps with a minimum capacity of 0.6 gpm per connection at each pressure plane. See Table 2-8 for minimum calculated pump capacities for the existing system and an estimate of units that can be constructed before major pump station upgrades are required.

TABLE 2-8 EXISTING PUMP CAPACITIES PER PRESSURE ZONE

WPZ	Peak Hour	0.6 * units	Required Pump Capacity (gpm)	Existing Pump Station Capacity (gpm)	Remaining Capacity (gpm)	Unit Capacity (units)
832	1,414.87	1,983.14	**1,414.87**	2,500	1,085.13	1,808
905	1,786.87	1,425.53	**1,425.53**	3,000	1,574.47	2,624

The existing system meets pumping requirements for both pressure zones but will require a supplemental pumping capacity of approximately 2,228.71 gpm for the 832 WPZ and 9,270.04 gpm for the 905 WPZ at the buildout condition. See Table 2-9 for future pump capacity calculations and the pump capacity required to support future demands.

TABLE 2-9 FUTURE PUMP CAPACITIES PER PRESSURE ZONE

WPZ	Peak Hour	0.6 * units	Required Pump Capacity (gpm)	Existing Pump Station Capacity (gpm)	Required Supplemental Pump Capacity (gpm)
832	5,206.91	4,728.71	**4,728.715**	2,500	2,228.71
905	16,141.35	12,270.04	**12,270.036**	3,000	9,270.04

3 Water System Model

3.1 Model Development

Hydraulic analyses were run for the following scenarios:

1. 24-hour extended period simulation (EPS) of existing system with maximum day demands
2. Maximum day demands plus emergency fire flow of the existing system.
3. 24-hour extended period simulation (EPS) of the future system with maximum day demands
4. Maximum day demands plus emergency fire flow of the future system.

The 24-hour EPS model was modeled using the diurnal demand pattern in Table 3-1 with an average maximum day peaking factor of 1.9 and a peak hour factor of 2.5 and a secondary peak of 2.4.

TABLE 3-1 DIURNAL CURVE TABLE

Hour	Peaking Factor
0	1.55
1	1.72
2	1.95
3	2.10
4	2.33
5	2.43
6	2.50
7	2.33
8	1.90
9	1.74
10	1.73
11	1.75
12	1.75
13	1.74
14	1.71
15	1.60
16	1.60
17	1.69
18	1.78
19	2.20
20	2.40
21	1.80
22	1.66
23	1.55
Average	**1.90**

Demands were input into the model as a function of land use, see Figure 1 - Land Use Map. Demands were assigned to a single node or distributed evenly among nodes within the land use.

All planned developments, except for Treeline Phases 2, 3, 4, and 5, with planned unit counts and corresponding land use were included in the existing EPS model.

For the future EPS model, 7 commercial units and 5 residential units were assumed per acre. A total of 3,693.63 acres of which 198.28 were commercial were included in the future analysis. Total system units for the existing and future models are summarized in Table 2-3 and Table 2-4, respectively.

3.2 Model Output

The junction pressures for maximum day and maximum day plus fire flow are presented in Figures 3 and 4 for the existing model and Figures 6 and 7 for the future model. The data can be compared with the operational requirements presented in Section 1.4 “Design Criteria” of this report.

4 Recommended Infrastructure

4.1 Existing System Improvements

The existing model update identified improvements that are recommended for the current water system.

To separate the water pressure zones, gate valves need to be closed at the intersection of Timber Ridge Drive and Hackberry Lane and at the intersection of Wrenwood Drive and Hackberry Lane. A third gate valve along Hillside Drive just west of Summit Drive is also required to be closed. However, the existing system is not meeting the 20-psi requirement at all fire hydrant locations during the maximum day plus 1,500 gpm fire flow scenario in this area. It is recommended that in leu of the third gate valve a PRV station is introduced on Hillside Drive to be closed during all flow conditions and only to provide flow to the lower pressure zone during low pressure times caused by fire events. To accomplish this outcome the PRV should be set to 35-40 psi with a recommended setting of 40 psi. See Figure 5 for a water system schematic of the existing system.

4.2 Future System Improvements

In the future, the amount of flow that will be required of the reservoir on 3rd Street and Snyder Ave will trigger pipeline size increases. The 6-inch pipeline along the corridor between 3rd Street and 4th Street from College Avenue to Sealey Avenue, and the 8-inch outlet from the reservoir and additional 8-inch segment ending at Snyder Avenue will all need to be increased to16-inch. This pipeline upgrade will allow the elevated storage tank on Reatta Drive to be properly filled and diminish low levels at peak hours.

To supply all future developments in the 905 pressure plane the following improvements will be required: additional pumping capacity to the Timberbrook Pump Station, a 1.0 MG ground storage, a 1.0 MG elevated storage, a 24-inch backbone to convey water to the 905 WPZ, and a secondary 16-inch feed from the Timberbrook pump station to the elevated storage at the proposed location on FM 407 and B Judge Lane. There was no location selected for additional ground storage required. Refer to sections 2.4 “Storage Capacity” and 2.5 “Pump Capacity” for storage and pumping requirements at buildout conditions.

Currently the Timberbrook EST and adjacent pump station are sharing an outlet transmission. Increasing the pumping capacity at Timberbrook would cause the EST to be in a constant full state and never drain appropriately. Once pump station upgrades are done to the Timberbrook pump station a dedicated inlet and outlet will be needed to control the levels of the EST. A possible solution which was modeled in the future EPS system would be to add controls to the inlet pipe to only open when elevations in the EST reach 880-ft and close when the EST is full.

To supply all future developments in the 832 pressure plane, the following improvements will be required: additional pumping capacity at the 4th Street pump station, a 0.2 MG elevated storage, and a 0.3 MG ground storage. Refer to sections 2.4 “Storage Capacity” and 2.5 “Pump Capacity” for storage and pumping requirements at buildout conditions. See Figure 8 for a water system schematic of the future system.

5 Conclusions & Recommendations

The water infrastructure for the City of Justin, Texas has been planned to meet the requirements of the TAC. The design and construction of the proposed water infrastructure shall generally conform to the recommendations of this master plan. If any further changes to the land use plan in Figure 1 occur, including but not limited to changes in parcel acreage and densities, the water master plan shall be re-evaluated to verify whether revisions to the infrastructure master plan will need to be made.

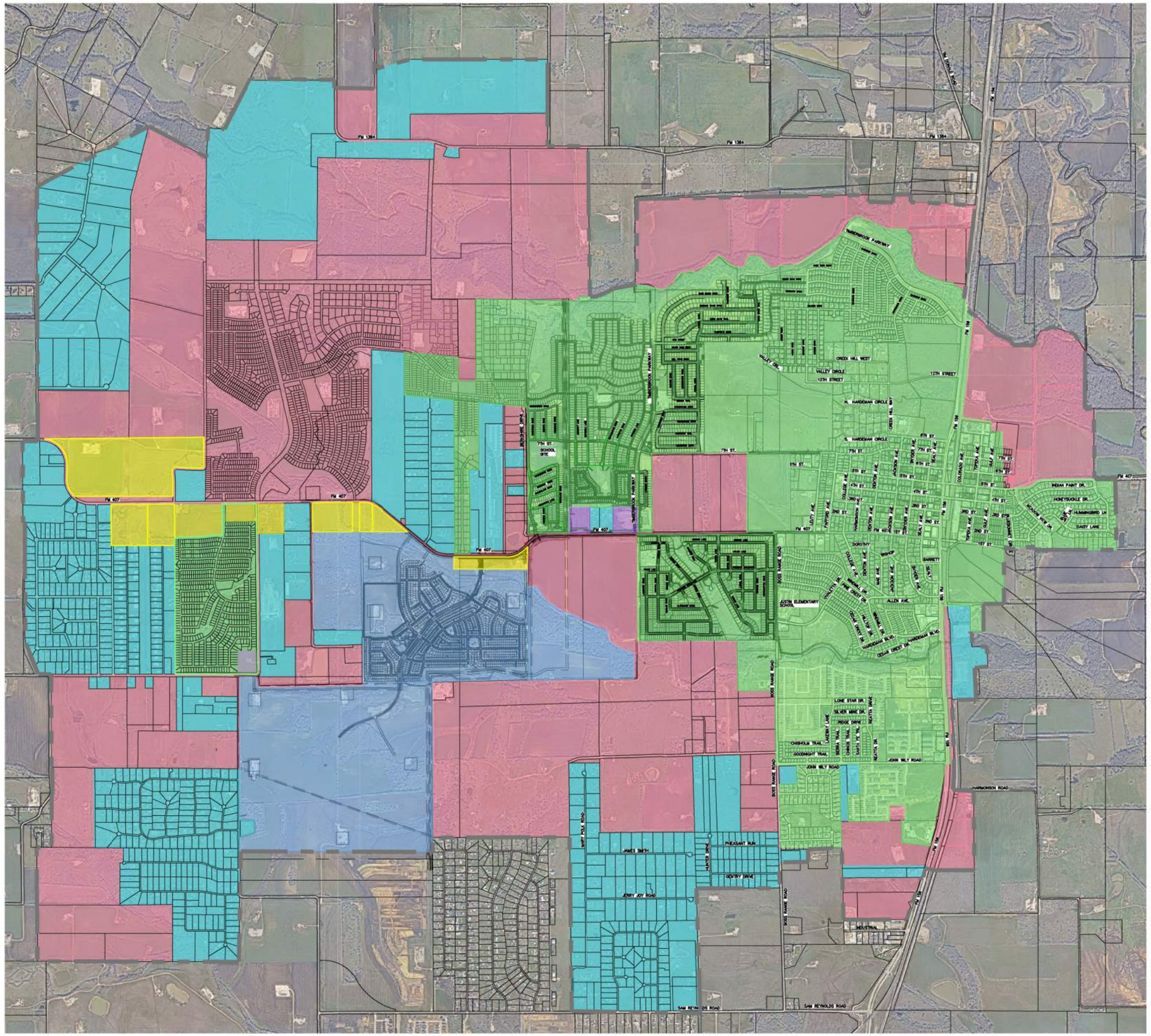
6 References

Pacheco Koch Consulting Engineers, INC. (2021). *City of Justin Water Master Plan.* Dallas, Texas.

The State of Texas. (n.d.). Title 30 - Environmental Quality. Texas Administrative Code.

Appendix A

Figures



LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - RESIDENTIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - COMMERCIAL
- TREELINE DEVELOPMENT
- EXTRATERRITORIAL JURISDICTION (ETJ) - NOT A PART

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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN WATER MASTER PLAN UPDATE

LAND USE PLAN

DATE:	June 24
DRAFTER:	JR
DESIGNER:	JR
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PROJECT NO.	-

FIGURE 1

SHEET 1 OF 1

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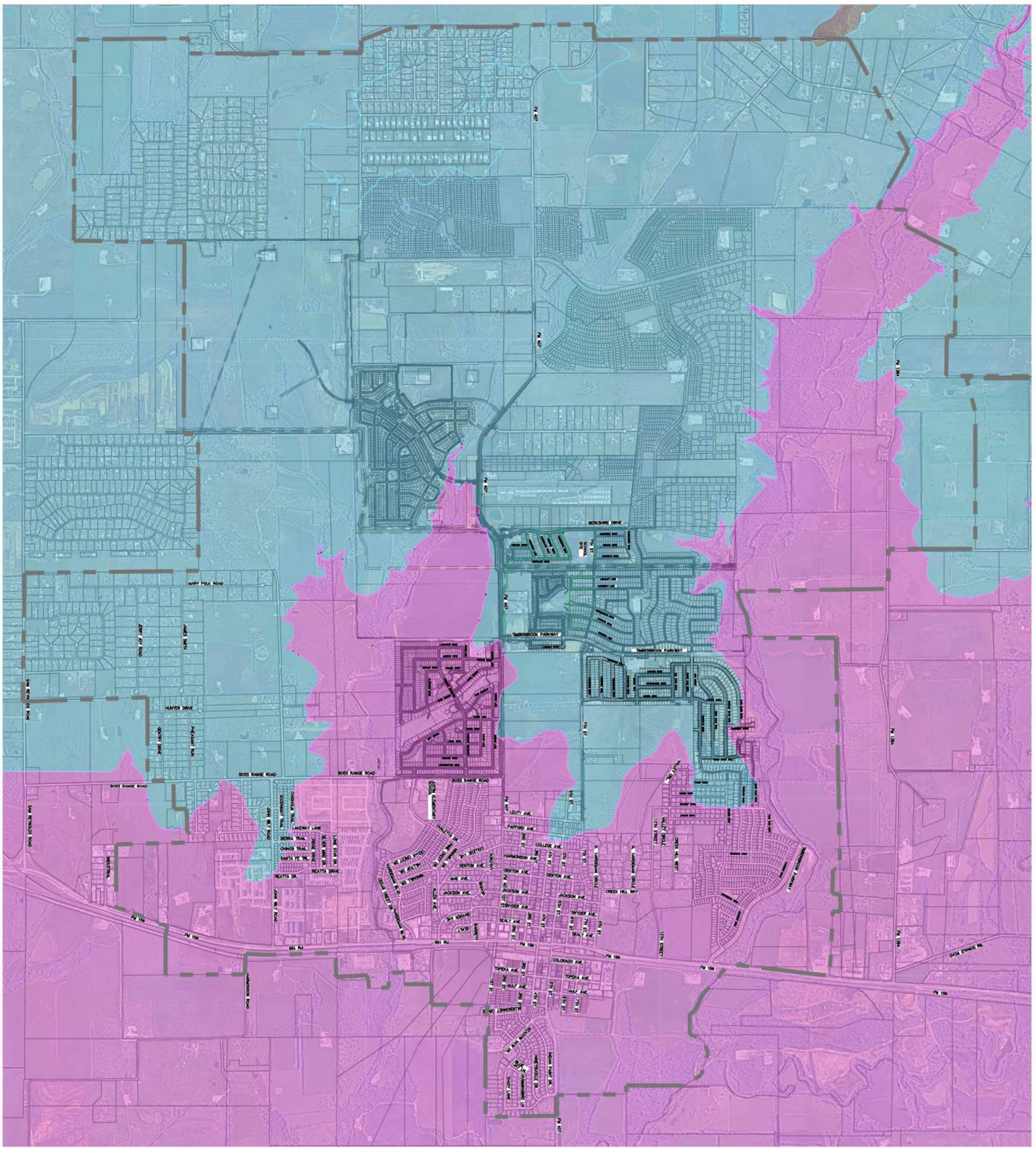

LEGEND

- PROJECT BOUNDARY
- 905 WATER PRESSURE ZONE
- 832 WATER PRESSURE ZONE

FIGURE 2
SHEET 1 OF 1

PROJECT NO.	-
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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN WATER MASTER PLAN UPDATE

WATER PRESSURE ZONE MAP

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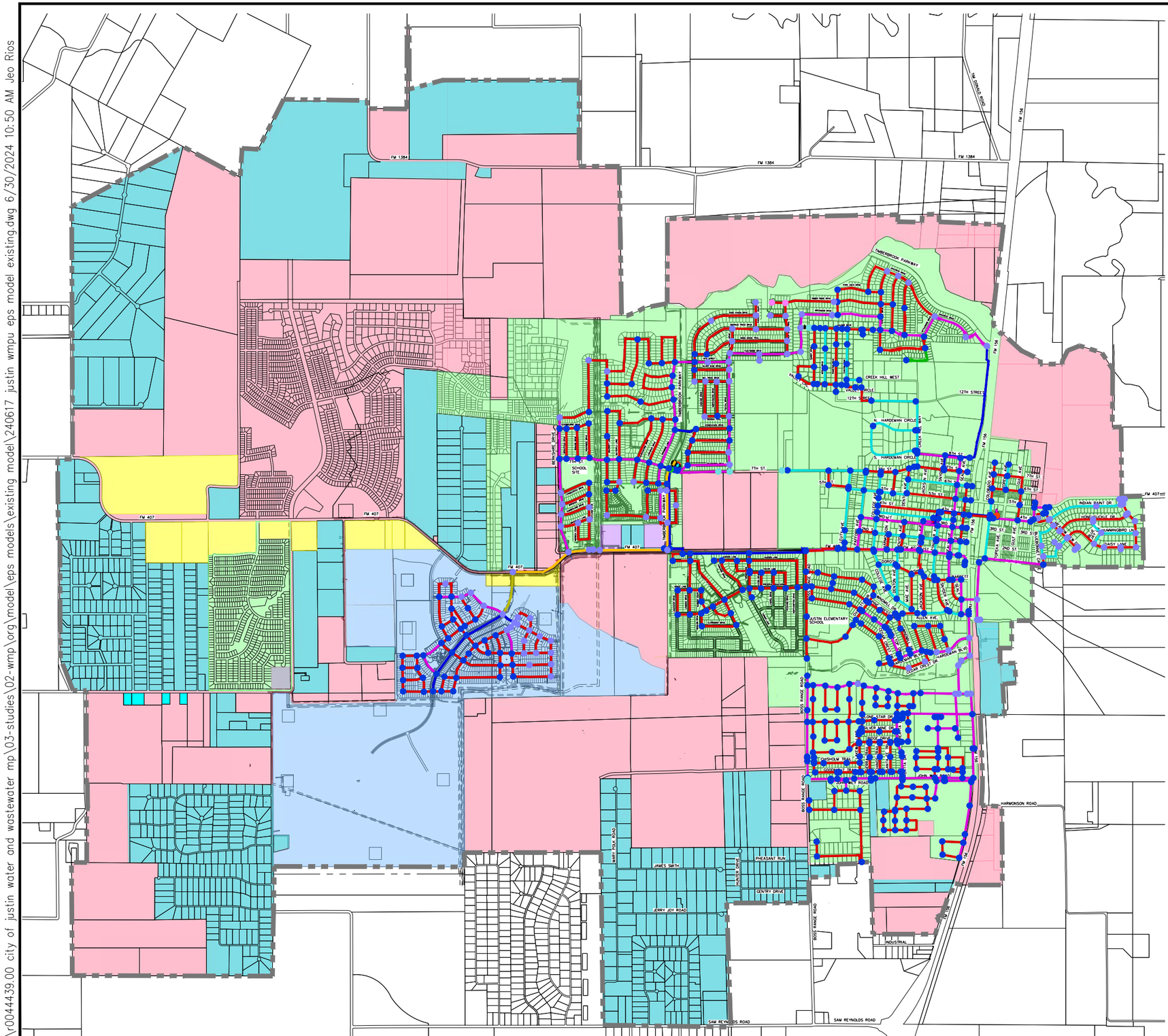

Color Coding Legend
Pipe: Diameter (in)

<=	6.0
<=	8.0
<=	10.0
<=	12.0
<=	16.0
<=	20.0
<=	24.0
<=	30.0
	Other

Color Coding Legend
Junction: Pressure (psi)

<=	34
<=	35
<=	40
<=	50
<=	80
<=	100
<=	120
	Other

LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - RESIDENTIAL
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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN WATER MASTER PLAN UPDATE

EXISTING NOPE MAP

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FIGURE 3
SHEET 1 OF 1

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Color Coding Legend
Pipe: Diameter (in)

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<=	8.0
<=	10.0
<=	12.0
<=	16.0
<=	20.0
<=	24.0
<=	30.0
	Other

Color Coding Legend
Junction: Satisfies Fire Flow Constraints?

=	True
=	False

LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - RESIDENTIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - COMMERCIAL
- TREELINE DEVELOPMENT
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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN WATER MASTER PLAN UPDATE

EXISTING FIRE CHECK NOPE MAP

DATE:	June 24
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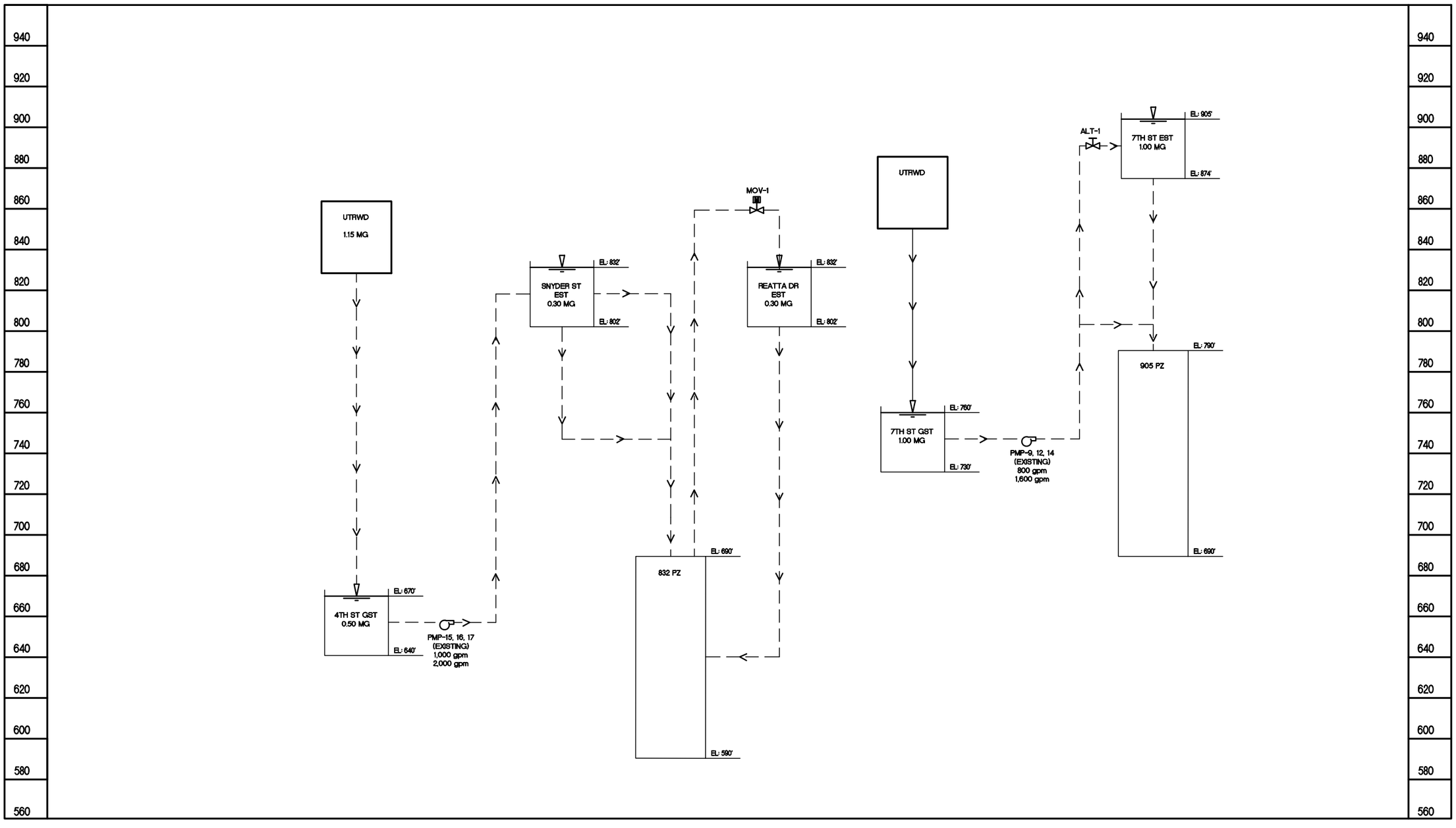
PROJECT NO.	-

FIGURE 4
SHEET 1 OF 1

LEGEND

- RESERVOIR
- ALTITUDE VALVE
- PUMP
- MOTOR OPERATED VALVE
- SERVICED AREA

DASHED LINES REPRESENT EXISTING PIPES



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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN WATER MASTER PLAN UPDATE
EXISTING WATER SYSTEM SCHEMATIC

DATE:	June 2024
DRAFTER:	JR
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PROJECT NO.	

FIGURE 5
SHEET 1 OF 1

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Color Coding Legend
Pipe: Diameter (in)

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<=	8.0
<=	10.0
<=	12.0
<=	16.0
<=	20.0
<=	24.0
<=	30.0
	Other

Color Coding Legend
Junction: Pressure (psi)

<=	34
<=	35
<=	40
<=	50
<=	80
<=	100
<=	120
	Other

LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - RESIDENTIAL
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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN WATER MASTER PLAN UPDATE

FUTURE NOPE MAP

DATE:	June 24
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PROJECT NO.	-

FIGURE 6
SHEET 1 OF 1

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Color Coding Legend
Pipe: Diameter (in)

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<=	12.0
<=	16.0
<=	20.0
<=	24.0
<=	30.0
	Other

Color Coding Legend
Junction: Satisfies Fire Flow Constraints?

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=	False

LEGEND

- PROJECT BOUNDARY
- CITY OF JUSTIN LIMITS
- COMMERCIAL
- EXTRATERRITORIAL JURISDICTION (ETJ) - RESIDENTIAL
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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN WATER MASTER PLAN UPDATE

FUTURE FIRE CHECK NOPE MAP

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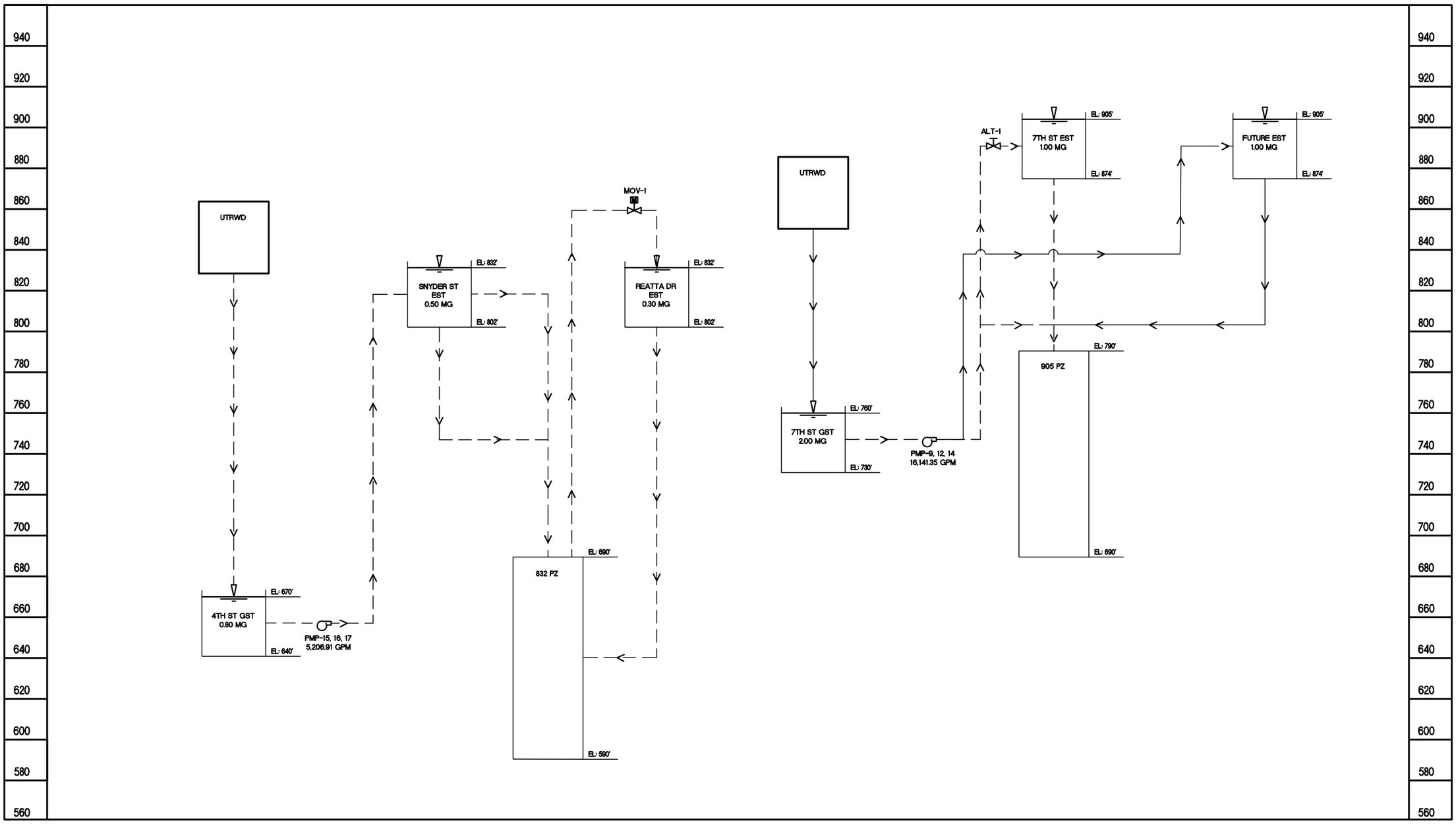
PROJECT NO.	-

FIGURE 7
SHEET 1 OF 1

LEGEND

- RESERVOIR
- ALTITUDE VALVE
- PUMP
- MOTOR OPERATED VALVE
- SERVICED AREA

DASHED LINES REPRESENT EXISTING PIPES



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CITY OF JUSTIN, TEXAS

CITY OF JUSTIN WATER MASTER PLAN UPDATE
FUTURE WATER SYSTEM SCHEMATIC

DATE: June 2024
DRAFTER: JR
DESIGNER: JR
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FIGURE 8
SHEET 1 OF 1

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City Council Coversheet
September 26, 2024
415 N. COLLEGE AVE.

Agenda Item: 4. (CONSENT AGENDA)

Title: Consider adopting Ordinance 790-24 approving the City of Justin's Texas Municipal Retirement System Benefit authorizing annual updated service credits; and take appropriate action.

Department: Administration

Contact: Janet Holden, Human Resources Generalist

Recommendation:

To increase the service credit for the TMRS Retirement Plan offered by the City from 50% to 75% effective January 1, 2025, when a new employee is coming from another city. With the adoption of this ordinance, the city will not have to adopt an ordinance each year to reauthorize the calculation of Updated Service (USC). This benefit will remain in effect for future years until such time as it is discontinued by an ordinance adopted by the City Council.

Background:

When doing research for the compensation study, it was noted that 8 of the 10 target cities' service credit was at 100%. Currently, the City of Justin is at 50%. By increasing the service credits that the City accepts, it will assist in the hiring and retention of new employees. The ultimate goal will be to increase the service credits to 100% to allow us to be more inline with the target cities approved by the Council. TMRS requires that this change be made by ordinance. The change was placed into the approved budget for the 24/25 budget.

City Attorney Review: No

Attachments:

1. Ord 790-24 TMRS Credit Accrual
2. Justin 2025 Plan Change Study _75% USC
3. Justin Transmittal - USC

ORDINANCE 790-24

AN ORDINANCE REGARDING THE CITY OF JUSTIN'S TEXAS MUNICIPAL RETIREMENT SYSTEM BENEFITS AUTHORIZING ANNUALLY ACCRUING UPDATED SERVICE CREDITS.

Whereas, the City of Justin, Texas (the "City"), elected to participate in the Texas Municipal Retirement System (the "System" or "TMRS") pursuant to Subtitle G of Title 8, Texas Government Code, as amended (which subtitle is referred to as the "TMRS Act"); and

Whereas, each person who is or becomes an employee of the City on or after the effective date of the City's participation in the System in a position that normally requires services of 1,000 hours or more per year ("Employee") shall be a member of the System ("Member") as a condition of their employment; and

Whereas, the City Council finds that it is in the public interest, in accordance with TMRS Act §§853.401 through 853.404, to reauthorize, and increase from 50% to 75%, annually accruing Updated Service Credits, now:

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF JUSTIN, TEXAS:

(a) On the terms and conditions set out in TMRS Act §§853.401 through 853.404, the City authorizes each Member of the System who on the first day of January of the calendar year immediately preceding the January 1 on which the Updated Service Credits will take effect (i) has current service credit or prior service credit in the System by reason of service to the City, (ii) has at least 36 months of credited service with the System, and (iii) is a TMRS-contributing Employee of the City, to receive "Updated Service Credit," as that term is defined and calculated in accordance with TMRS Act §853.402.

(b) The Updated Service Credit authorized and provided under this Ordinance shall be **75%** of the "base Updated Service Credit" of the TMRS Member calculated as provided in TMRS Act §853.402.

(c) If the City previously adopted an ordinance authorizing Updated Service Credit for unforfeited prior service credit and/or current service credit with another System participating municipality (also known as "Transfer USC"), the calculations and adjustments set forth in TMRS Act §853.601 apply to any such prior Transfer USC.

(d) Each Updated Service Credit authorized and provided by this Ordinance shall replace any Updated Service Credit, prior service credit, special prior service credit, or antecedent service credit previously authorized for part of the same service.

(e) The initial Updated Service Credit authorized by this Section shall be effective on January 1 immediately following the year in which this Ordinance is approved, subject to receipt by the System prior to such January 1 and approval by the Board of Trustees ("Board") of the System. Pursuant to TMRS Act §853.404, the authorization and grant of Updated Service Credits in this Ordinance shall be effective on January 1 of each subsequent year, using the same percentage of the "base Updated Service Credit" stated in Subsection (b) in computing Updated Service Credits for each future year, provided that, as to such subsequent year, the actuary for the System has made the determination set forth in TMRS Act §853.404(d), until this Ordinance ceases to be in effect as provided in TMRS Act §853.404(e).

Passed and approved September 26, 2024, first reading.

Passed and approved _____, 2024, second reading.

ATTEST: **APPROVED:**

_____ _____

City Secretary Mayor

Comparison of Alternate Plan Design(s)

FOR CITIES

2025 Rates • Justin

July 5, 2024

Plan Provisions	Current	Option 1
Employee Contribution Rate	7%	7%
City Matching Ratio	2 to 1	2 to 1
Updated Service Credit (USC)	50% (Repeating)	75% (Repeating)
Transfer USC *	No	No
COLA	None	None
Retroactive COLA	No	No
Retirement Eligibility Any Age	20 years	20 years
Vesting	5 years	5 years
Supplemental Death Benefit	None	None
Contribution Rates	**2025**	**2025**
Normal Cost Rate	7.25%	7.79%
Prior Service Rate	0.19%	0.62%
Retirement Rate	**7.44%**	**8.41%**
Supplemental Death Rate	0.00%	0.00%
Total Contribution Rate	**7.44%**	**8.41%**
Unfunded Actuarial Liability	$100,339	$330,985
Funded Ratio	97.7%	92.8%
Benefit Increase Amortization Period	20 years	20 years
Stat Max	13.50%	13.50%
Retirement Rate Exceeds Stat Max	No	No

* As of the December 31, 2023 valuation date, there were 22 employees with service in other TMRS cities eligible for transfer USC.

July 5, 2024

Janet Holden
Director of Human Resources
City of Justin
415 N College Ave
Justin, TX 76247

Dear Ms. Holden:

We are pleased to enclose a model ordinance for your city to adopt:

75% Updated Service Credit without Transfers
Annually Repeating
Effective January 1, 2025

By adopting this ordinance, the city will not have to adopt an ordinance each year to reauthorize the calculation of Updated Service Credit (USC). This benefit will remain in effect for future years until such time as it is discontinued by an ordinance adopted by the City Council.

With the adoption of this additional benefit, your city's contribution rate will be **8.41%** beginning January 1, 2025.

Please make sure the ordinance is adopted and signed before the effective date. When the ordinance is adopted, please send a copy to City Services at cityservices@tmrs.com.

If you have any questions about the model ordinance or anything else, please call me at 512-225-3742.

Sincerely,

Colin Davidson
Director of City and Member Services

City Council Coversheet
September 26, 2024
415 N. COLLEGE AVE.

Agenda Item: 5. (CONSENT AGENDA)

Title: Consider adopting Ordinance 789-24, second reading, authorizing the City of Justin to enter into an Atmos Franchise agreement; and take appropriate action.

Department: Administration

Contact: Jarrod Greenwood, City Manager

Recommendation:

Staff recommends approval

Background:

The City's current franchise agreement with Atmos, set to expire in December 2024, was approved in 1999 by Ordinance 270 and subsequently amended in 2002 by Ordinance 399. The original 1999 agreement provided a 2% Franchise Fee and the 2002 amendment increased it to 4%.

Staff has worked with our Utility Attorney and General Counsel to negotiate a new municipal franchise agreement with Atmos Energy Corporation, set to take effect on January 1, 2025. This agreement retains Atmos Energy's right to construct, maintain, and operate its pipelines and related equipment within the City's public rights-of-way for the delivery, transportation, and sale of natural gas to residents, businesses, and other entities within the City limits.

Atmos Energy is responsible for the maintenance, operation, and replacement of its facilities within the public rights-of-way. Franchise Agreements outline the responsibilities for minimizing interference with traffic and other public utilities, ensuring timely relocation of facilities when necessary, and covering associated costs, especially in cases where relocation is required by the City for public projects. The agreement also provides a clear structure for resolving any future conflicts and upholds the City's ability to manage its public rights-of-way effectively.

Salient changes:

- A new section that addresses the City's Right of Way Management Ordinance. This is because the City of Justin, like cities throughout the state (and on a national level), updated our ROW Management Ordinances in 1999 in reaction to state legislation which significantly restricted a municipality's ability to regulate a cellular company's ability to install 5G small cell nodes within our ROW. This added language addresses how Atmos will operate in accordance with our ROW Management Ordinance.

- The franchise fee has been increased from 4% to 5% and is standard for the new agreements. Atmos Energy will pay the City an annual franchise fee equivalent to 5% of its gross revenues generated from the sale and transportation of natural gas within the City. These payments will be made on or before May 1st each year, beginning in 2025. The agreement stipulates that these fees replace other municipal charges and taxes, excluding ad valorem taxes.
- Defaults and Remedies to cure any default. If Atmos defaults and does not fix the default in the required amount of time, the City has the right to terminate the agreement. However, Atmos would require that termination may only occur after Council holds a public hearing and issues a written decision. This is a common term and is unlikely to come up. There are usually several junctures for working things out before we would ever consider terminating the agreement.
- Term - the proposed Agreement term is 20 years and is a typical franchise agreement term length.

City Attorney Review: Yes

Attachments:

1. Ordinance 789-24 - 2024 Atmos Franchise Agreement

ORDINANCE NO: 789-24

AN ORDINANCE GRANTING TO ATMOS ENERGY CORPORATION, A TEXAS AND VIRGINIA CORPORATION, ITS SUCCESSORS AND ASSIGNS, A FRANCHISE TO CONSTRUCT, MAINTAIN, AND OPERATE PIPELINES AND EQUIPMENT IN THE CITY OF JUSTIN, DENTON COUNTY, TEXAS, FOR THE TRANSPORTATION, DELIVERY, SALE, AND DISTRIBUTION OF GAS IN, OUT OF, AND THROUGH SAID CITY FOR ALL PURPOSES; PROVIDING FOR THE PAYMENT OF A FEE OR CHARGE FOR THE USE OF THE PUBLIC RIGHTS-OF-WAYS; AND PROVIDING THAT SUCH FEE SHALL BE IN LIEU OF OTHER FEES AND CHARGES, EXCEPTING AD VALOREM TAXES; AND REPEALING ALL PREVIOUS GAS FRANCHISE ORDINANCES.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF JUSTIN, TEXAS:

SECTION 1. GRANT OF AUTHORITY: The City of Justin, Texas, hereinafter called "City," hereby grants to Atmos Energy Corporation, Mid-Tex Division, hereinafter called "Atmos Energy," its successors and assigns, consent to use and occupy the present and future streets, alleys, highways, public utility easements, public ways and other public places ("Public Rights-of-Way"), for the purpose of laying, maintaining, constructing, protecting, operating, and replacing therein and thereon pipelines and all other appurtenant equipment (the "System") to deliver, transport, and distribute gas in, out of, and through City for persons, firms, and corporations, including all the general public, and to sell gas to persons, firms, and corporations, including all the general public, within the City corporate limits, as such limits may be amended from time to time during the term of this franchise, said consent being granted for a term ending December 31, 2044.

SECTION 2. CONSTRUCTION, MAINTENANCE, OPERATION & RELOCATION OF ATMOS ENERGY FACILITIES:

A. Atmos Energy shall lay, maintain, construct, operate, and replace its pipes, mains, laterals, and other equipment to minimize interference with traffic, place or cause to be placed appropriate barriers to mark excavations or obstructions, and restore to approximate original condition all Public Rights-of-Way that it may disturb. In determining the location of the facilities of the City and other users of Public Right-of-Way within City, City shall minimize interference with then existing facilities of Atmos Energy and shall require other users of Public Rights-of-Way to minimize interference with existing facilities of Atmos Energy. In the event of a conflict between the location of the proposed facilities of Atmos Energy and the location of the existing facilities of City or other users of Public Rights-of-Way within Public Rights-of-Way that cannot

otherwise be resolved, City or an authorized agent of City shall resolve the conflict and determine the location of the respective facilities within the Public Rights-of-Way.

Atmos Energy's use of the Public Rights-of-Way is subject to Chapter 40 of the City's Code of Ordinances, as amended. Prior to commencing work in the Public Rights-of-Way, Atmos Energy is required to comply with the permitting requirements under Chapter 40, Section 36 of the City's Code of Ordinances, as amended. Atmos Energy or contractors working on behalf of Atmos Energy shall not be required to pay for street cutting, street excavation or other special permits related to excavations in Public Rights-of-Way in connection with Atmos Energy's operations in Public Rights-of-Way. City shall provide Atmos Energy with its annual capital improvements plan as well as any updates or changes as soon as the plan, update, or change becomes available. City shall notify Atmos Energy as soon as reasonably possible of any projects that will affect Atmos Energy's facilities located in the Public Rights-of-Way. When required by City to remove or relocate its mains, laterals, and/or other facilities lying within Public Rights-of-Way, Atmos Energy shall do so as soon as practically possible with respect to the scope of the project. In no event shall Atmos Energy be required to remove or relocate its facilities in less than thirty (30) days from the time notice is given to Atmos Energy by City.

B. If City, in constructing its sewers, drainage, water lines, streets, or utilities, should request that Atmos Energy remove or relocate its mains, laterals, and other facilities lying within Public Rights-of-Way, Atmos Energy shall do so at its own expense for facilities that are in conflict, unless such work is for the primary purpose of beautification or to accommodate a private developer. Facilities are deemed to be in conflict to the extent that the proposed City facilities are determined by Atmos Energy to be inconsistent with gas distribution industry standard safe operating practices for existing facilities. Atmos Energy shall not be required to relocate facilities to a depth of greater than four (4) feet unless prior agreement is obtained from Atmos Energy.

When Atmos Energy is required by City to remove or relocate its mains, laterals, and other facilities lying within Public Rights-of-Way to accommodate a request by City, and costs of utility removals or relocations are eligible under federal, state, county, local or other programs for reimbursement of costs and expenses incurred by Atmos Energy as a result of such removal or relocation, and such reimbursement is required to be handled through City, Atmos Energy costs and expenses shall be included in any application by City for reimbursement if Atmos Energy submits its cost and expense documentation to City prior to the filing of the application. City

shall provide reasonable written notice to Atmos Energy of the deadline for Atmos Energy to submit documentation of the costs and expenses of such relocation to City. Upon receipt of an amount of reimbursement intended for utility relocations including gas utilities, City shall remit to Atmos Energy, within thirty (30) days of receipt, any portion of such reimbursement specifically designated as a reimbursement of Atmos Energy's costs incurred in the relocation or removal of Atmos Energy's facilities but only after City has been fully reimbursed for its own costs of relocation or removal of utilities and related facilities.

If Atmos Energy is required by City to remove or relocate its mains, laterals, or other facilities lying within Public Rights-of-Way for any reason other than the construction or reconstruction of sewers, drainage, water lines, streets or utilities by City, Atmos Energy shall be entitled to reimbursement from City or others of the cost and expense of such removal or relocation.

C. When Atmos Energy is required to remove or relocate its mains, laterals or other facilities to accommodate construction by City without reimbursement from City, Atmos Energy shall have the right to seek recovery of relocation costs as provided for in applicable state and/or federal law. Nothing herein shall be construed to prohibit, alter, or modify in any way the right of Atmos Energy to seek or recover a surcharge from customers for the cost of relocation pursuant to applicable state and/or federal law. City shall not oppose recovery of relocation costs when Company is required by City to perform relocation. City shall not require that Company document request for reimbursement as a pre-condition to recovery of such relocation costs.

D. If City abandons any Public Rights-of-Way in which Atmos Energy has facilities, such abandonment shall be conditioned on Atmos Energy's right to maintain its use of the former Public Right-of-Way and on the obligation of the party to whom the Public Right-of-Way is abandoned to reimburse Atmos Energy for all removal or relocation expenses if Atmos Energy agrees to the removal or relocation of its facilities following abandonment of the Public Right-of-Way. If the party to whom the Public Right-of-Way is abandoned requests Atmos Energy to remove or relocate its facilities and Atmos Energy agrees to such removal or relocation, such removal or relocation shall be done within a reasonable time at the expense of the party requesting the removal or relocation. If relocation cannot practically be made to another Public Right-of-Way, the expense of any right-of-way acquisition shall be considered a relocation expense to be reimbursed by the party requesting the relocation.

SECTION 3. INDEMNITY & INSURANCE: In the event of injury to any person or damage to any property by reason of Atmos Energy's construction, operation, maintenance, or replacement of Atmos Energy's pipeline system within Public Rights-of-Way, Atmos Energy shall indemnify and keep harmless City from any and all liability in connection therewith, except to the extent such injury or damage is attributable to the fault of the City, including, without limitation, the City's negligent or intentional acts or omissions. Company shall, at its sole cost and expense, obtain, maintain, or cause to be maintained, and provide, throughout the term of this Franchise, insurance in the amounts, types and coverages in accordance with the Chapter 40, Section 33 of the City's Code of Ordinances, as amended. Notwithstanding the foregoing, such insurance may be in the form of self-insurance to the extent permitted by applicable law.

SECTION 4. NON-EXCLUSIVE FRANCHISE: The rights, privileges, and franchises granted by this ordinance are not to be considered exclusive, and City hereby expressly reserves the right to grant, at any time, like privileges, rights, and franchises as it may see fit to any other person or corporation for the purpose of transporting, delivering, distributing, or selling gas to and for City and the inhabitants thereof.

SECTION 5. PAYMENTS TO CITY:

A. Atmos Energy, its successors and assigns, agrees to pay and City agrees to accept, on or before the 1st day of May 2025, and on or before the same day of each succeeding year during the term of this franchise the last payment being made on the 1st day of May 2044, a sum of money which shall be equivalent to five percent (5%) of the Gross Revenues, as defined in 5.B below, received by Atmos Energy during the preceding calendar year.
B. "Gross Revenues" shall mean:

(1) all revenues received by Atmos Energy from the sale of gas to all classes of customers (excluding gas sold to another gas utility in the City for resale to its customers within City) within the City;

(2) all revenues received by Atmos Energy from the transportation of gas through the System of Atmos Energy within the City to customers located within the City (excluding any gas transported to another gas utility in City for resale to its customers within City);

(3) the value of gas transported by Atmos Energy for Transport Customers through the System of Atmos Energy within the City ("Third Party Sales")(excluding the value of any gas transported to another gas utility in City for resale to its customers within City), with the value of such gas to be established by utilizing Atmos Energy's monthly Weighted Average Cost of Gas charged to industrial customers in the Mid-Tex division, as reasonably near the time as the transportation service is performed; and

(4) "Gross Revenues" shall also include contributions in aid of construction ("CIAC"), revenues billed but not ultimately collected or received by Atmos Energy, and the following "miscellaneous charges": charges to connect, disconnect, or reconnect gas within the City and charges to handle returned checks from consumers within the City and State gross receipts fees

(5) "Gross Revenues" shall not include:

(a) the revenue of any affiliate or subsidiary of Atmos Energy;

(b) sales tax and franchise fees paid to the City;

(c) interest or investment income earned by Atmos Energy; and

(d) monies received from the lease or sale of real or personal property, provided, however, that this exclusion does not apply to the lease of facilities within the City's right of way.

C. The initial payment for the rights and privileges herein provided shall be for the privilege period beginning January 1, 2025 through December 31, 2025, and each succeeding payment shall be for the privilege period of the calendar year in which the payment is made. The franchise fee amounts that are due based on CIAC shall be paid at least once annually on or before April 30 each year based on the total CIAC recorded during the previous calendar year. The initial CIAC payment pursuant to this agreement will be paid on or before April 30, 2026, and will be based on the calendar year January 1 through December 31, 2025. The final CIAC payment under this agreement will be paid on or before April 30, 2045, and will be based on the calendar year January 1 through December 31, 2044.

It is also expressly agreed that the aforesaid payments shall be in lieu of any and all other and additional occupation taxes, easement, franchise taxes or charges (whether levied as an ad valorem, special, or other character of tax or charge), municipal license, permit, and inspection

fees, bonds, street taxes, and street or alley rentals or charges, and all other and additional municipal taxes, charges, levies, fees, and rentals of whatsoever kind and character that City may now impose or hereafter levy and collect from Atmos Energy or Atmos Energy's agents, excepting only the usual general or special ad valorem taxes that City is authorized to levy and impose upon real and personal property. If the City does not have the legal power to agree that the payment of the foregoing sums of money shall be in lieu of taxes, licenses, fees, street or alley rentals or charges, easement or franchise taxes or charges aforesaid, then City agrees that it will apply so much of said sums of money paid as may be necessary to satisfy Atmos Energy's obligations, if any, to pay any such taxes, licenses, charges, fees, rentals, easement or franchise taxes or charges aforesaid.

D. Effect of Other Municipal Franchise Ordinance Fees Accepted and Paid by Atmos Energy

If Atmos Energy should at any time after the effective date of this Ordinance agree to a new municipal franchise ordinance, or renew an existing municipal franchise ordinance, with another municipality in Atmos Energy's Mid-Tex Division, which municipal franchise ordinance determines the franchise fee owed to that municipality for the use of its public rights-of-way in a manner that, if applied to the City, would result in a franchise fee greater than the amount otherwise due City under this Ordinance, then the franchise fee to be paid by Atmos Energy to City pursuant to this Ordinance may, at the election of the City, be increased so that the amount due and to be paid is equal to the amount that would be due and payable to City were the franchise fee provisions of that other franchise ordinance applied to City. The City acknowledges that the exercise of this right is conditioned upon the City's acceptance of all terms and conditions of the other municipal franchise *in toto*. The City may request waiver of certain terms and Company may grant, in its sole reasonable discretion, such waiver.

E. Atmos Energy Franchise Fee Recovery Tariff

(1) Atmos Energy may file with the City a tariff or tariff amendment(s) to provide for the recovery of the franchise fees under this agreement.

(2) City agrees that (i) as regulatory authority, it will adopt and approve the ordinance, rates or tariff which provide for 100% recovery of such franchise fees as part of Atmos Energy's rates; (ii) if the City intervenes in any regulatory proceeding before a federal or state agency in which the recovery of Atmos Energy's franchise fees is an issue, the City

will take an affirmative position supporting 100% recovery of such franchise fees by Atmos Energy and; (iii) in the event of an appeal of any such regulatory proceeding in which the City has intervened, the City will take an affirmative position in any such appeals in support of the 100% recovery of such franchise fees by Atmos Energy.

(3) City agrees that it will take no action, nor cause any other person or entity to take any action, to prohibit the recovery of such franchise fees by Atmos Energy.

F. Lease of Facilities Within City's Rights-of-Way. Atmos Energy shall have the right to lease, license or otherwise grant to a party other than Atmos Energy the use of its facilities within the City's public rights-of-way provided: (i) Atmos Energy first notifies the City of the name of the lessee, licensee or user; the type of service(s) intended to be provided through the facilities; and the name and telephone number of a contact person associated with such lessee, licensee or user and (ii) Atmos Energy makes the franchise fee payment due on the revenues from such lease pursuant to Section 5 of this Ordinance. This authority to Lease Facilities within City's Rights-of-Way shall not affect any such lessee, licensee or user's obligation, if any, to pay franchise fees.

G. City shall within thirty (30) days of final approval, give Company notice of annexations and disannexations of territory by the City, which notice shall include a map and addresses, if known. Upon receipt of said notice, Company shall promptly initiate a process to reclassify affected customers into the city limits no later than sixty (60) days after receipt of notice from the City. The annexed areas added to the city limits will be included in future franchise fee payments in accordance with the sales tax effective date of the annexation if notice was timely received from City. Upon request from City, Company will provide documentation to verify that affected customers were appropriately reclassified and included for purposes of calculating franchise fee payments. In no event shall the Company be required to add premises for the purposes of calculating franchise payment prior to the earliest date that the same premises are added for purposes of collecting sales tax.

SECTION 6. DEFAULTS:

Events of Default. The occurrence, at any time during the term of this Franchise, of any one or more of the following events, shall constitute an Event of Default by Atmos Energy under this Franchise:

A. The failure of Atmos Energy to pay the Franchise Fee on or before the due dates specific herein;

B. The failure of Atmos Energy to meet the deadlines for removal or relocation required under this

Franchise;

C. Atmos Energy's substantial breach or violation of any of the material terms contained herein.

The foregoing shall not constitute a breach if the violation occurs without fault of Atmos Energy or occurs as a result of circumstances beyond its control which could not have been avoided as a result of the exercise of reasonable care. The Company shall not be excused by mere economic hardship or by misfeasance or malfeasance of its directors, officers or employees.

Uncured Events of Default.

A. Upon the occurrence of an Event of Default which can be cured by the immediate payment of money to the City, Atmos Energy shall have thirty (30) calendar days after written notice from City of an occurrence of such Event of Default to cure the same before City may exercise any of its rights or remedies provided under this Franchise.

B. Upon the occurrence of an Event of Default by Atmos Energy which cannot be cured by the immediate payment of money to the City, Atmos Energy shall have ninety (90) calendar days after written notice from City of an occurrence of such Event of Default to cure the same before City may exercise any of its rights or remedies under this Franchise.

C. If any Event of Default is not cured within the time period provided herein, such an Event of Default shall, without additional notice, become an Uncured Event of Default, which shall entitle City to exercise the remedies provided in the section below.

SECTION 7. REMEDIES: Upon the occurrence of any Uncured Event of Default as described above, City shall be entitled to exercise any and all of the following cumulative remedies: (1) The commencement of an action against Atmos Energy for monetary damages; (2) the commencement of an action in equity seeking injunctive relief or the specific performance of any of the provisions that, as a matter of equity, are specifically enforceable; (3) the termination of this Franchise. Termination shall be declared only by written decision of the City Council after an appropriate public proceeding whereby Atmos Energy is afforded the full opportunity to be heard and to respond to notice of violation or failure to comply. Atmos Energy may appeal the final decision of the City Council to a court or regulatory authority having jurisdiction.

The rights and remedies of City and Atmos Energy set forth in this Franchise shall be in addition to, and not in limitation of, any other rights and remedies provided by law or in equity. City and Atmos Energy understand and intend that such remedies shall be cumulative to the maximum extent permitted by law and the exercise by City of any one or more of such remedies shall not preclude the exercise by City, at

the same or different times, of any other such remedies for the same Uncured Event of Default.

SECTION 6. ACCEPTANCE OF FRANCHISE: In order to accept this franchise, Atmos Energy must file with the City Secretary its written acceptance of this franchise ordinance within sixty (60) days after its final passage and approval by City. If such written acceptance of this franchise ordinance is not filed by Atmos Energy, the franchise ordinance shall be rendered null and void.

When this franchise ordinance becomes effective, all previous ordinances of City granting franchises for gas delivery purposes that were held by Atmos Energy shall be automatically canceled and annulled, and shall be of no further force and effect.

SECTION 7. PARAGRAPH HEADINGS. CONSTRUCTION: The paragraph headings contained in this ordinance are for convenience only and shall in no way enlarge or limit the scope or meaning of the various and several paragraphs hereof. Both parties have participated in the preparation of this ordinance and this ordinance shall not be construed either more or less strongly against or for either party.

SECTION 8. EFFECTIVE DATE: If Atmos Energy accepts this ordinance, it becomes effective as of January 1, 2025.

PASSED AND APPROVED ON THE FIRST READING BY THE CITY COUNCIL ON THIS THE 12TH DAY OF SEPTEMBER 2024 AND FINAL APPROVAL ON SECOND AND FINAL READING THE 26TH DAY OF SEPTEMBER, 2024.

ATTEST:

_____
Amy Piukana, City Secretary

_____
James Clark, Mayor
City of Justin, Texas

STATE OF TEXAS §
COUNTY OF DENTON §
CITY OF JUSTIN §

I, Amy Piukana, City Secretary of the City of Justin, Denton County, Texas, do hereby certify that the above and foregoing is a true and correct copy of an ordinance passed by the City Council of the City of Justin, Texas, at a _____ session, held on the _____ day of _____, 2024, as it appears of record in the Minutes in Book _____, page _____.

WITNESS MY HAND AND SEAL OF SAID CITY, this the ___ day of _____, 2024.

_____
Amy Piukana, City Secretary
City of Justin, Texas

City Council Coversheet
September 26, 2024
415 N. COLLEGE AVE.

Agenda Item: 6. (CONSENT AGENDA)

Title: Consider approving Resolution 710-24, awarding a contract to SPI Asphalt, LLC for miscellaneous asphalt repairs in the amount of $161,000, authorize the City Manager to execute the agreement; and take appropriate action.

Department: Administration

Contact: Matthew Cyr, Director of Planning and Development

Recommendation:

staff recommends approval

Background:

Asphalt repairs are needed to maintain the life expectancy of our streets. These repairs have been prioritized by staff for the various locations.

STRATEGIC PRIORITY: This item is part of the day-to-day operations to fulfill the Adopted Strategic Plan's Quality of Life Strategic Objective - "Enhance streets and drainage".

Staff solicited bids for the proposed Miscellaneous Asphalt Repair contract and received 3 proposals, Vernara LLC, SPI Asphalt LLC, and Pavecon Public Works. Of the 3, Vernara provided the lowest bid at $155,600 and while they were low bidder, they do not have asphalt experience with a City. Additionally, we were unable to verify their experience on HMAC. When staff asked for experience, Vernara came back and said they wanted to just do the concrete work. With the minimum cost differentiation ($5,400), staff is recommending the next lowest bidder, SPI Asphalt, as we will see better overall performance having 2 different companies focusing on the separate asphalt and concrete work.

The proposed repair work will focus on crack sealing and pothole repairs, i.e. 10' x 10'. More substantial pavement failures will require full depth reconstruction of that (limited) area and are planned to be addressed at the same time of Snyder and Sealy reconstruction.

City Attorney Review: Yes

Attachments:

1. Resolution 710-24 Approving Miscelaneous Asphalt Repair Contract
2. Recommendation for Award - Asphalt
3. Asphalt Repair Bid Tabulation

CITY OF JUSTIN
RESOLUTION 710-24

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF JUSTIN, TEXAS AWARDING A CONTRACT WITH SPI ASPHALT, LLC FOR MISCELLANEOUS ASPHALT REPAIRS IN THE AMOUNT OF $161,000, AUTHORIZE THE CITY MANAGER TO EXECUTE THE AGREEMENT; AND TAKE APPROPRIATE ACTION.

WHEREAS, the City of Justin has identified the need for miscellaneous asphalt street repairs to maintain and improve the quality and safety of the city's roadways; and

WHEREAS, the proposed work is a strategic priority and a part of the day-to-day operations to fulfill the Adopted Strategic Plan's Quality of Life Strategic Objective - "Enhance streets and drainage".

WHEREAS, the City of Justin solicited bids for the completion of such repairs in accordance with applicable laws and regulations; and

WHEREAS, SPI Asphalt, LLC has been determined to be the bidder for the miscellaneous asphalt street repair project that will provide for the best value and outcome; and

WHEREAS, the City Council of the City of Justin finds that it is in the best interest of the City to award the contract to SPI Asphalt for the completion of the necessary street repairs;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF JUSTIN, TEXAS:

SECTION 1: That, all matters stated in the Recitals hereinabove are found to be true and correct and are incorporated herein by reference as if copied in their entirety.

SECTION 2: That the City of Justin City Council hereby approves Resolution 710-24, awarding a contract with SPI Asphalt for Miscellaneous Asphalt Repairs in the amount of $161,000, attached hereto as Exhibit “A”, and authorizing the City Manager to execute the agreement.

SECTION 3: If any portion of this Resolution shall, for any reason, be declared invalid by any court of competent jurisdiction, such invalidity shall not affect the remaining provisions hereof and the Council hereby determines that it would have adopted this Resolution without the invalid provision.

SECTION 4: That this resolution shall become effective from and after its date of passage.

DULY PASSED and approved by the City Council of the City of Justin, Texas, by a vote on this the 26th day of September 2024.

APPROVED:

_____
James Clark, Mayor

ATTEST:

_____
Amy M. Piukana, City Secretary

APPROVED AS TO FORM:

_____
Matthew Boyle, City Attorney

Westwood

September 16, 2024
Project No.: 3340-13.294

Mr. Jarrod Greenwood
City Manager
CITY OF Justin
415 N College Street
Justin, Texas 76247

Re: **2024 STREET IMPROVEMENT PROGRAM: MISCELLANEOUS ASPHALT PAVEMENT REPAIR**
RECOMMENDATION OF AWARD
City of Justin, Denton County, Texas

Dear Mr. Greenwood:

BID RESULTS

Attached is the Bid Tabulation for the bids received September 10, 2024, for the referenced project for your use.

The lowest bid received for the project was from Vernara LLC. Vernara did not have asphalt repair with cities on their resume and while their references were good, the references were for work on concrete streets. We believe the lack of experience on asphalt streets on the provided bid for Vernara makes them non-responsive for this bid. The second lowest bid received was from SPI Asphalt LLC, the total amount of the bid for contract award is $161,000.00.

CONTRACTOR QUALIFICATIONS

SPI Asphalt LLC provided a list of experience and references for this project. Westwood verified experience of the contractor.

RECOMMENDATION

Based on the information we have received to date, we see no reason not to award a contract for the referenced project to SPI Asphalt LLC. for the total amount bid of $161,000.00.

Should you have any questions about the information contained herein, please do not hesitate to call.

Christopher J. Cha, P.E.

Attachments:
Bid Tabulation
Xc: Asphalt Repair Bid Tabulation.pdf

CITY OF JUSTIN

BID TABULATION

Westwood

2024 STREET IMPROVEMENT PROGRAM: MISCELLANEOUS ASPHALT PAVEMENT
PK No. 3340-13.294

BIDS OPENED: **September 10, 2024**
CONTRACT TIME: **120 Calendar Days**

ITEM	DESCRIPTION	BID QTY	UNIT	VERNARA LLC 17250Dallas Parkway Dallas Tx 75248		SPI ASPHALT LLC 1103 Misty Ridge Drive Justin Tx 76247		PAVECON PUBLIC WORKS 3022 Roy Orr Blvd Grand Prairie Tx 75050	
				UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
1	Mobilization	1	LS	$ 38,000.00	$ 38,000.00	$ 5,000.00	$ 5,000.00	$ 17,073.82	$ 17,073.82
2	Crack Sealing	40,000	LF	$ 1.50	$ 60,000.00	$ 2.30	$ 92,000.00	$ 2.51	$ 100,400.00
3	Asphalt Spot Repair	800	SY	$ 72.00	$ 57,600.00	$ 80.00	$ 64,000.00	$ 106.28	$ 85,024.00
					$ -		$ -		$ -
					$ -		$ -		$ -
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					$ -		$ -		$ -
					$ -		$ -		$ -
	TOTAL BID				**$ 155,600.00**		**$ 161,000.00**		**$ 202,497.82**
	5% BID SECURITY			5% BOND		5% BOND		5% BOND	
	ADDENDA ACKNOWLEDGED								

City Council Coversheet
September 26, 2024
415 N. COLLEGE AVE.

Agenda Item: 7. (CONSENT AGENDA)

Title: Consider approving Resolution 711-24, awarding a contract to Vernara, LLC for miscellaneous concrete pavement repairs in the amount of $222,682.30, authorize the City Manager to execute the agreement and take appropriate action.

Department: Administration

Contact: Matthew Cyr, Director of Planning and Development

Recommendation:

staff recommends approva;

Background:

Concrete repairs are needed to maintain the life expectancy of our streets. These repairs have been prioritized by staff for the various locations.

STRATEGIC PRIORITY: This item is part of the day-to-day operations to fulfill the Adopted Strategic Plan's Quality of Life Strategic Objective - "Enhance streets and drainage".

Staff solicited bids for the proposed Miscellaneous Asphalt Repair contract and received 8 proposals, Vernara LLC, SPI Asphalt LLC, Tex-Pro Construction, Boarwalk Paving & Construction, Patcon Services LLC, Grod Constructions LLC, and DFW Concrete Pros LLC.

Vernara LLC has a strong track record of successfully completing similar work for other municipalities, and their bid amount of $222,682.30 aligns with the City's budgeted funds for this repair work. The contractor has demonstrated the necessary expertise, resources, and commitment to complete the work in a timely and efficient manner.

The proposed repair work will focus on various street panel replacements (with curb replacement) and stand-alone curb replacements throughout the City including: Meadowlands, Ridgeview, and Reatta.

City Attorney Review: Yes

Attachments:

1. Resolution 711-24 Approving Miscelaneous Concrete Repair Contract
2. Recommendation for Award - Concrete
3. Concrete Repair Bid Tabulation

CITY OF JUSTIN
RESOLUTION 711-24

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF JUSTIN, TEXAS AWARDING A CONTRACT TO VERNARA LLC FOR MISCELLANEOUS CONCRETE PAVEMENT REPAIRS IN THE AMOUNT OF $262,682.30, AUTHORIZE THE CITY MANAGER TO EXECUTE THE AGREEMENT; AND TAKE APPROPRIATE ACTION.

WHEREAS, the City of Justin has identified the need for miscellaneous asphalt street repairs to maintain and improve the quality and safety of the city's roadways; and

WHEREAS, the proposed work is a strategic priority and a part of the day-to-day operations necessary to fulfill the Adopted Strategic Plan's Quality of Life Strategic Objective - "Enhance streets and drainage".

WHEREAS, the City of Justin solicited bids for the completion of such repairs in accordance with applicable laws and regulations; and

WHEREAS, Vernara LLC has been determined to be the lowest bidder for the miscellaneous concrete pavement repair project that will provide for the best value and outcome; and

WHEREAS, the City Council of the City of Justin finds that it is in the best interest of the City to award the contract to Vernara LLC for the completion of the necessary street repairs;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF JUSTIN, TEXAS:

SECTION 1: That, all matters stated in the Recitals hereinabove are found to be true and correct and are incorporated herein by reference as if copied in their entirety.

SECTION 2: That the City of Justin City Council hereby approves Resolution 711-24, awarding a contract with Vernara LLC for Miscellaneous Concrete Pavement Repairs in the amount of $222,682.30, attached hereto as Exhibit “A”, and authorizing the City Manager to execute the agreement.

SECTION 3: If any portion of this Resolution shall, for any reason, be declared invalid by any court of competent jurisdiction, such invalidity shall not affect the remaining provisions hereof and the Council hereby determines that it would have adopted this Resolution without the invalid provision.

SECTION 4: That this resolution shall become effective from and after its date of passage.

DULY PASSED and approved by the City Council of the City of Justin, Texas, by a vote on this the 26th day of September 2024.

APPROVED:

_____
James Clark, Mayor

ATTEST:

_____
Amy M. Piukana, City Secretary

APPROVED AS TO FORM:

_____
Matthew Boyle, City Attorney

Westwood

September 17, 2024
Project No.: 3340-13.294

Mr. Jarrod Greenwood
City Manager
CITY OF Justin
415 N College Street
Justin, Texas 76247

Re: **2024 STREET IMPROVEMENT PROGRAM: MISCELLANEOUS CONCRETE PAVEMENT REPAIR RECOMMENDATION OF AWARD**
City of Justin, Denton County, Texas

Dear Mr. Greenwood:

BID RESULTS

Attached is the Bid Tabulation for the bids received September 10, 2024, for the referenced project for your use.

Reviewing the bid tabulation, Westwood identified a few mathematical errors, but it did not change the contractor with the lowest bid. The lowest bid received for the project was from Vernara LLC. Based on the estimated quantities in the Bid Proposal and the unit prices bid by Vernara LLC, the base bid was $204,052.30 and the total amount of the bid for contract award is $222,682.30.

CONTRACTOR QUALIFICATIONS

Vernara LLC provided a list of experience and references for this project. Westwood called some of the various references and verified experience and the references' opinion of the work performed by the contractor.

RECOMMENDATION

Based on the information we have received to date, we see no reason not to award a contract for the referenced project to Vernara LLC. either for the Base Bid amount of $204,052.30 or the total amount bid of $222,682.30.

Should you have any questions about the information contained herein, please do not hesitate to call.

Christopher J. Cha, P.E.

Attachments:
Bid Tabulation
Xc: Concrete Repair Bid Tabulation.pdf

CITY OF JUSTIN

BID TABULATION

Westwood

2024 Street Improvement Program: Miscellaneous Concrete Pavement Repair at Various Locations
3340-13.294

BIDS OPENED: September 10, 2024
CONTRACT TIME: 75 Calendar Days

ITEM	DESCRIPTION	BID QTY	UNIT	VENARA LLC 17250 DALLAS PKWY DALLAS, TX 75248		CAM-CRETE CONTRACTING LLC 1118 CASHEW DR VENUS, TX 76084		TEX-PRO CONSTRUCTION LLC 1005 CHICAGO AVE FTW, TX 76115		BOARWALK PAVING & CONSTRUCTION LLC 2830 JUPITER RD GARLAND, TX 75041		SPI ASPHALT LLC 1001 CLIFF DR GRAHAM, TX 76450		PATCON SERVICES LLC PO BOX 2423 WEATHERFORD, TX 76088		GROD CONSTRUCTION LLC 889 E. ROCK ISLAND AVE. BOYD, TX 76023		DFW CONCRETE PROS LLC 14375 SAM REYNOLDS RD JUSTIN, TX 76247	
				UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
1	Traffic Control	1	LS	$ 11,500.00	$ 11,500.00	$ 6,500.00	$ 6,500.00	$ 7,000.00	$ 7,000.00	$ 14,832.72	$ 14,832.72	$ 5,000.00	$ 5,000.00	$ 30,814.46	$ 30,814.46	$ 17,000.00	$ 17,000.00	$ 37,000.00	$ 37,000.00
2	Temporary Erosion, Sedimentation And Water Pollution Prevention (SWPPP)	1	LS	$ 5,750.00	$ 5,750.00	$ 3,500.00	$ 3,500.00	$ 2,000.00	$ 2,000.00	$ 1,320.90	$ 1,320.90	$ 5,000.00	$ 5,000.00	$ 14,263.94	$ 14,263.94	$ 3,000.00	$ 3,000.00	$ 9,000.00	$ 9,000.00
3	Project Signs	2	EA	$ 1,725.00	$ 3,450.00	$ 650.00	$ 1,300.00	$ 1,500.00	$ 3,000.00	$ 475.00	$ 950.00	$ 1,000.00	$ 2,000.00	$ 1,342.92	$ 2,685.84	$ 775.00	$ 1,550.00	$ 650.00	$ 1,300.00
4	Remove Concrete Curb	397	LF	$ 2.30	$ 913.10	$ 12.00	$ 4,764.00	$ 5.00	$ 1,985.00	$ 8.00	$ 3,176.00	$ 30.00	$ 11,910.00	$ 9.69	$ 3,846.93	$ 15.00	$ 5,955.00	$ 15.83	$ 6,284.51
5	Remove Concrete Pavement	1,280	SY	$ 17.49	$ 22,387.20	$ 20.00	$ 25,600.00	$ 17.00	$ 21,760.00	$ 27.25	$ 34,880.00	$ 30.00	$ 38,400.00	$ 25.75	$ 32,960.00	$ 32.00	$ 40,960.00	$ 33.84	$ 43,315.20
6	6" Pavement Base Repair	1,126	SY	$ 40.25	$ 45,321.50	$ 35.00	$ 39,410.00	$ 10.00	$ 11,260.00	$ 20.25	$ 22,801.50	$ 40.00	$ 45,040.00	$ 57.86	$ 65,150.36	$ 40.00	$ 45,040.00	$ 49.00	$ 55,174.00
7	6" Concrete Panel Replacement (Full Depth Repair)(Sawcut Included)	1,280	SY	$ 84.79	$ 108,531.20	$ 95.00	$ 121,600.00	$ 135.00	$ 172,800.00	$ 108.00	$ 138,240.00	$ 70.00	$ 89,600.00	$ 72.53	$ 92,838.40	$ 135.00	$ 172,800.00	$ 93.00	$ 119,040.00
8	6" Integral Concrete Curb	397	LF	$ 6.90	$ 2,739.30	$ 15.00	$ 5,955.00	$ 30.00	$ 11,910.00	$ 38.00	$ 15,086.00	$ 70.00	$ 27,790.00	$ 33.87	$ 13,446.39	$ 7.00	$ 2,779.00	$ 41.06	$ 16,300.82
9	Crack Seal	2,000	LF	$ 1.73	$ 3,460.00	$ 8.00	$ 16,000.00	$ 1.00	$ 2,000.00	$ 1.25	$ 2,500.00	$ 5.00	$ 10,000.00	$ 2.92	$ 5,840.00	$ 4.00	$ 8,000.00	$ 6.00	$ 12,000.00
	BASE TOTAL BID				**$ 204,052.30**		**$ 224,629.00**		**$ 233,715.00**		**$ 233,787.12**		**$ 234,740.00**		**$ 261,846.32**		**$ 297,084.00**		**$ 299,414.53**
A-1	Remove Concrete Curb	100	LF	$ 4.60	$ 460.00	$ 12.00	$ 1,200.00	$ 5.00	$ 500.00	$ 8.00	$ 800.00	$ 30.00	$ 3,000.00	$ 9.69	$ 969.00	$ 15.00	$ 1,500.00	$ 15.83	$ 1,583.00
A-2	Remove Concrete Pavement	100	SY	$ 23.00	$ 2,300.00	$ 20.00	$ 2,000.00	$ 17.00	$ 1,700.00	$ 27.25	$ 2,725.00	$ 30.00	$ 3,000.00	$ 25.75	$ 2,575.00	$ 32.00	$ 3,200.00	$ 33.84	$ 3,384.00
A-3	6" Concrete Panel Replacement (Full Depth Repair)(Sawcut Included)	100	SY	$ 97.75	$ 9,775.00	$ 95.00	$ 9,500.00	$ 135.00	$ 13,500.00	$ 108.00	$ 10,800.00	$ 70.00	$ 7,000.00	$ 72.53	$ 7,253.00	$ 135.00	$ 13,500.00	$ 93.00	$ 9,300.00
A-4	6" Integral Concrete Curb	100	LF	$ 9.20	$ 920.00	$ 15.00	$ 1,500.00	$ 30.00	$ 3,000.00	$ 38.00	$ 3,800.00	$ 70.00	$ 7,000.00	$ 33.87	$ 3,387.00	$ 7.00	$ 700.00	$ 41.06	$ 4,106.00
A-5	6" Pavement Base Repair	100	SY	$ 51.75	$ 5,175.00	$ 35.00	$ 3,500.00	$ 10.00	$ 1,000.00	$ 20.25	$ 2,025.00	$ 40.00	$ 4,000.00	$ 57.86	$ 5,786.00	$ 40.00	$ 4,000.00	$ 49.00	$ 4,900.00
					$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -
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					$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -
	TOTAL BID				**$ 222,682.30**		**$ 242,329.00**		**$ 253,415.00**		**$ 253,937.12**		**$ 258,740.00**		**$ 281,816.32**		**$ 319,984.00**		**$ 322,687.53**
	5% BID SECURITY			5% BOND		5% BOND		5% BOND		5% BOND		5% BOND		5% BOND		5% BOND		5% BOND	
	ADDENDA ACKNOWLEDGED			YES		YES		YES		YES		YES		YES		YES		YES	

CITY OF JUSTIN

2024 Street Improvement Program: Miscellaneous Concrete Pavement Repair at Various Locations
3340-13.294

				BIDS OPENED:	**September 10, 2024**	PAVCON PUBLIC WORKS 3022 RAY ORR BLVD FTW, TX 75050		CAPKO CONCRETE STRUCTURES LLC PO BOX 426 AXLE, TX 76098	
				CONTRACT TIME:	**75 Calendar Days**				
ITEM	**DESCRIPTION**	**BID QTY**	**UNIT**	**UNIT PRICE**	**TOTAL AMOUNT**	**UNIT PRICE**	**TOTAL AMOUNT**		
1	Traffic Control	1	LS	$ 14,652.36	$ 14,652.36	$ 9,100.00	$ 9,100.00		
2	Temporary Erosion, Sedimentation And Water Pollution Prevention (SWPPP)	1	LS	$ 7,977.78	$ 7,977.78	$ 1,500.00	$ 1,500.00		
3	Project Signs	2	EA	$ 925.36	$ 1,850.72	$ 600.00	$ 1,200.00		
4	Remove Concrete Curb	397	LF	$ 15.17	$ 6,022.49	$ 11.00	$ 4,367.00		
5	Remove Concrete Pavement	1,280	SY	$ 25.86	$ 33,100.80	$ 56.00	$ 71,680.00		
6	6" Pavement Base Repair	1,126	SY	$ 94.80	$ 106,744.80	$ 50.00	$ 56,300.00		
7	6" Concrete Panel Replacement (Full Depth Repair)(Sawcut Included)	1,280	SY	$ 92.34	$ 118,195.20	$ 137.00	$ 175,360.00		
8	6" Integral Concrete Curb	397	LF	$ 50.11	$ 19,893.67	$ 4.50	$ 1,786.50		
9	Crack Seal	2,000	LF	$ 2.07	$ 4,140.00	$ 3.00	$ 6,000.00		
	BASE TOTAL BID				**$ 312,577.82**		**$ 327,293.50**		
A-1	Remove Concrete Curb	100	LF	$ 15.17	$ 1,517.00	$ 11.00	$ 1,100.00		
A-2	Remove Concrete Pavement	100	SY	$ 25.86	$ 2,586.00	$ 56.00	$ 5,600.00		
A-3	6" Concrete Panel Replacement (Full Depth Repair)(Sawcut Included)	100	SY	$ 94.60	$ 9,460.00	$ 137.00	$ 13,700.00		
A-4	6" Integral Concrete Curb	100	LF	$ 92.34	$ 9,234.00	$ 4.50	$ 450.00		
A-5	6" Pavement Base Repair	100	SY	$ 50.11	$ 5,011.00	$ 50.00	$ 5,000.00		
					$ -		$ -		
					$ -		$ -		
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					$ -		$ -		
					$ -		$ -		
					$ -		$ -		
					$ -		$ -		
	TOTAL BID				**$ 340,385.82**		**$ 353,143.50**		
	5% BID SECURITY			5% BOND		5% BOND			
	ADDENDA ACKNOWLEDGED			YES		YES			

City Council Coversheet
September 26, 2024
415 N. COLLEGE AVE.

Agenda Item: 1. (PUBLIC HEARING)

Title: Conduct a Public Hearing and consider adopting Ordinance 791-24, 1st reading, for a Specific Use Permit for a Temporary Batch Plant for LaDera Timberbrook legally described as A0439A M. Garnett, Tract 3E, generally located north of FM 407 and Timberbrook Parkway; and take appropriate action.

Department: Administration

Contact: Matthew Cyr, Director of Planning and Development

Recommendation:

Staff Recommends Approval as presented.

Background:

The Applicant is requesting a temporary batch plant to mitigate construction traffic to the site for LaDera at Timberbrook. The applicant will have approximately a 2,400 foot setback from the nearest residential use and will also have dust control equipment onsite. The estimated timeframe onsite would be three weeks.

Traffic flow would consist of vehicular traffic moving down FM 407 and turning onto Timberbrook Parkway.

In July 2022, City Council adopted an ordinance governing all temporary batch plants with an SUP. This ordinance includes several conditions for operation:

1. An 18-inch mound around the perimeter of the batch plant.
2. A two-foot silt wall placed around the site.
3. A water truck mitigating dust as needed or requested by the city.
4. Construction zone signage on any collector or thoroughfare road. Placement shall be determined by the Public Works Director.
5. A 500-foot minimum setback from any existing residential uses.
6. A 700-foot minimum setback for an asphalt batching plant from any existing residential uses.

The Applicant does and will comply with all of these provisions before construction starts if granted the Specific Use Permit.

PZ Recommendation:

The Planning and Zoning Commission unanimously recommended approval on August 16, 2024.

City Attorney Review: No

Attachments:

1. Batch Plant Application
2. Ordinance 791-24

JUSTIN
1887

ZONING CHANGE

SELECT APPLICATION TYPE

☐ Zoning Change ☑ Special Use Permit ☐ Planned Development

DEVELOPMENT

Project Address NW Corner FM 407 & Timberbrook Parkway

Project Name Ladera Timberbrook Phase 1

Legal Description Lot 1, Block A (20.863 Acres) Acreage 20.863

Current Zoning Residential Proposed Zoning N/A

Current Use N/A Proposed Use N/A

OWNER INFORMATION

Company/Name Avanta SFR Holdings, LLC

Contact Name Cash Grnwlt

Address 4401 North Mesa St City El Paso State TX Zip 79902

Phone (832)983-7993 Email cashg@integritygroups.com

For additional owners, please include additional copies of this page. The property owner MUST sign the application or submit a notarized letter of authorization.

REPRESENTATIVE/AGENT INFORMATION

Company L.H. Lacy Contact Name Matt Terry

Address 1880 Crown Dr, Ste 1200 City Dallas State TX Zip 75234

Phone (214)535-4804 Email mterry@lhlacy.com

CERTIFICATION

I certify that the above information is correct and complete to the best of my acknowledge and ability, and that I will be fully prepared to present the proposal at a Planning and Zoning Commission and City Council public hearing. I reserve the right to withdraw this proposal at any time by filing a written request with the Development Services Department.

Owner Signature	Date	Owner Name (Print)
	08/09/24	Cash Grnwalt
Agent Signature	Date	Agent Name (Print)
Matt Terry	8/9/2024	Matt Terry

1000'+ Open
1000'+ Open
1000'+ Open
1000'+ Open
W 7th St
Strader Ln
Strader Ln
Strader Ln
Strader Ln
407
407
407
Ladera at Timberbrook Ph1
Justin, Denton County, TX
Batch Plant Site
Google My Maps

Process Flow Description

Aggregate is stored in divided stockpiles. A front end loader delivers aggregate from the stockpiles to an aggregate hopper, and a radial arm conveyor delivers aggregate to an overhead, multi-compartment bin. Appropriate aggregate from these compartments is dropped into the aggregate batcher and onto a conveyor that feeds the weigh batcher.

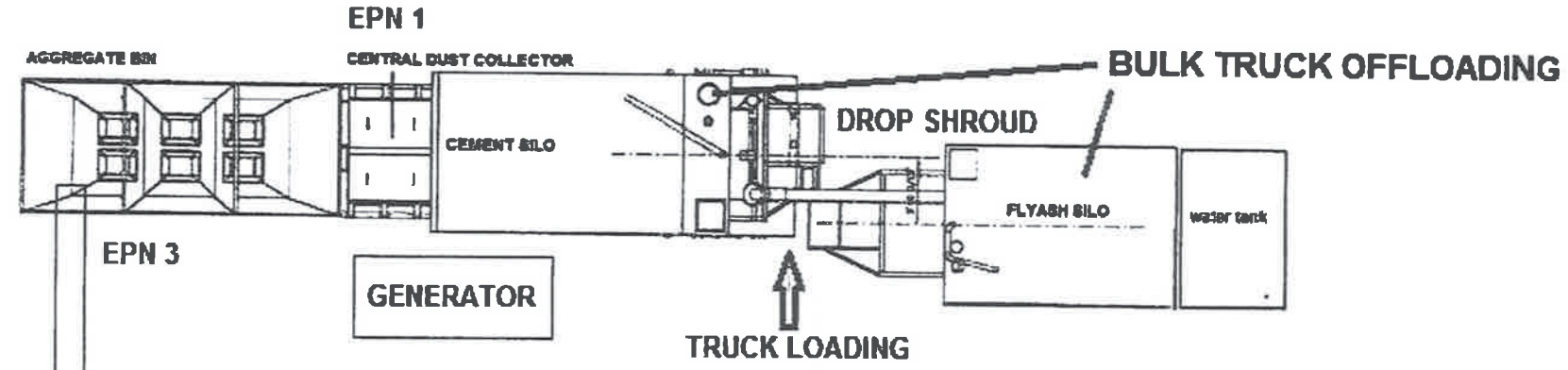
Cement and flyash are delivered by bulk transport and offloaded via a closed pneumatic system to the silos.

Cement and flyash are fed directly into the weigh batcher with the aggregate. The mixture then drops into the rotary mix truck via a truck drop shroud.

The cement and flyash silos, weigh batcher, and truck drop shroud are ducted to the central dust collector.

Aggregate is washed prior to delivery to the site. Aggregate stockpiles are watered to prevent wind erosion, and to prevent dust during batching process.

Roads and on site travel routes are watered for dust control.



30'X70' CONVEYOR

PROCESS FLOW DIAGRAM

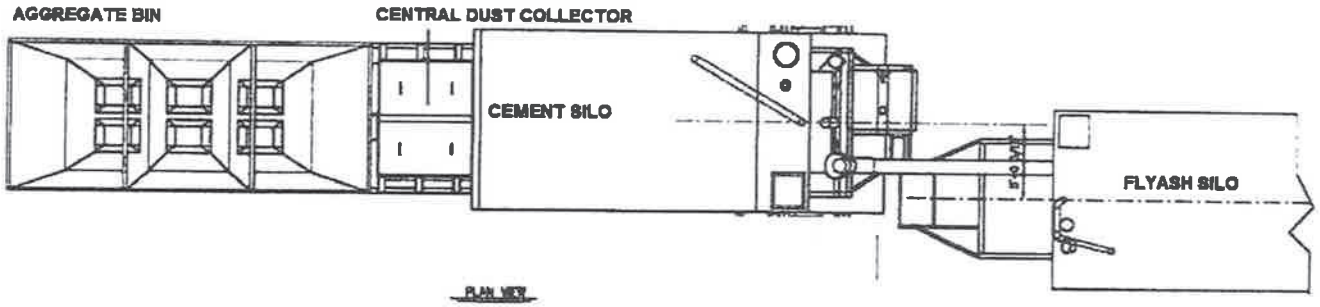
HOPPER EPN 2

LOADER

STOCKPILES

SAND

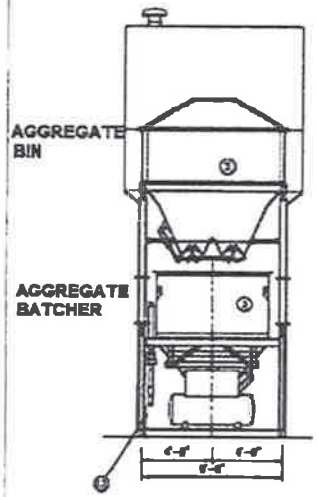
AGGREGATE



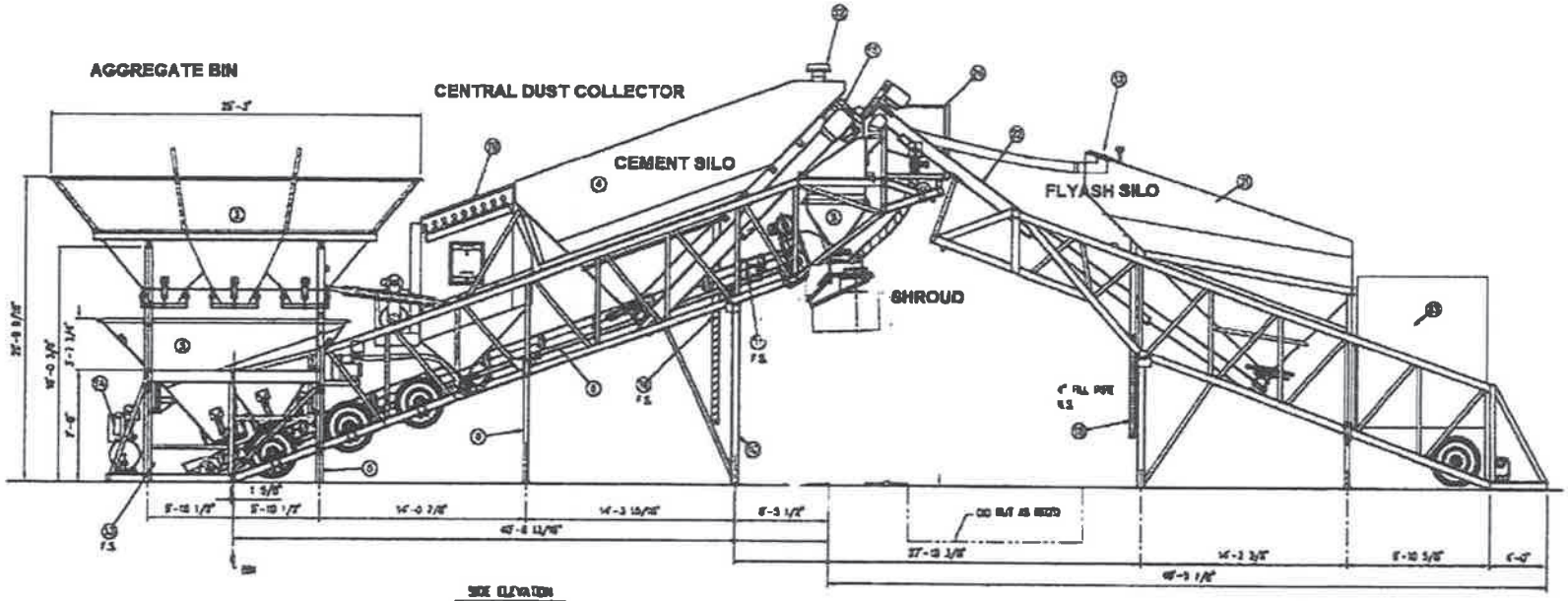
PLAN VIEW

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	WT.	REMARKS
1	1	4T TRUSS ASSEMBLY		
2	1	AGGREGATE BIN 60 TON 3-COMP		S-[illegible]
3	1	AGGREGATE WEIGH BATCHER, 72 CU YD		S-[illegible]
4	1	CEMENT SILO ASSY INCL. R/ HIGH LEVEL INDICATOR		S-[illegible]
5	1	CEMENT WEIGH BATCHER 10 CU. YD. 171 CU FT		[illegible]
		6/ 1 1/4" VIBRATOR		
6	1	INTRUSO CONVEYOR 26" W/ 40 HP DRIVE		
7	1	26" DISCHARGE HOOD		S-[illegible]
8	2	STUB LEG		
9	1	TELESCOPIC LEG ASSY		S-[illegible]
10	1	SWING LEG ASSY		S-[illegible]
11	1	5 HP AERATION BLOWER		
12	1	10MB POP OFF RELIEF VALVE		
13	1	2" EMCO WATER METER		
14	1	15 HP COMPRESSOR W/ 120 GAL TANK		
15	1	6" FILL PIPES		
16	1	6" FILL PIPES		
17	2	10 TO O-HEAD LEGS		S-[illegible]
18	1	10" CEMENT FEEDER W/ 15 HP DRIVES		
19	1	INTRUSO 1060 "JET PULSE" DUST COLLECTOR		
20	1	10 YD. HORIZONTAL MIXER		
21	1	300 BBL HCA		
22	1	12" x 32' FLYASH FEEDER		
23	1	8000 GALLON WATER TANK		
24	1	WATER HOLDING TANK		S-[illegible]



END VIEW



SIDE ELEVATION

THE VINCE HAGAN COMPANY
DALLAS, TEXAS

OWNER PIONEER CONCRETE

PLANT GENERAL ARRANGEMENT

DRAWN BY	DATE	SCALE	DRAWING NO.
	3/13/13	1/4"=1'-0"	0100510

Lacy

CIVIL CONSTRUCTION AS PLANNED WWW.LHLACY.COM

August 9th, 2024

RE: Batch Plant Operations – Ladera Timberbrook Phase 1 (Justin, TX)

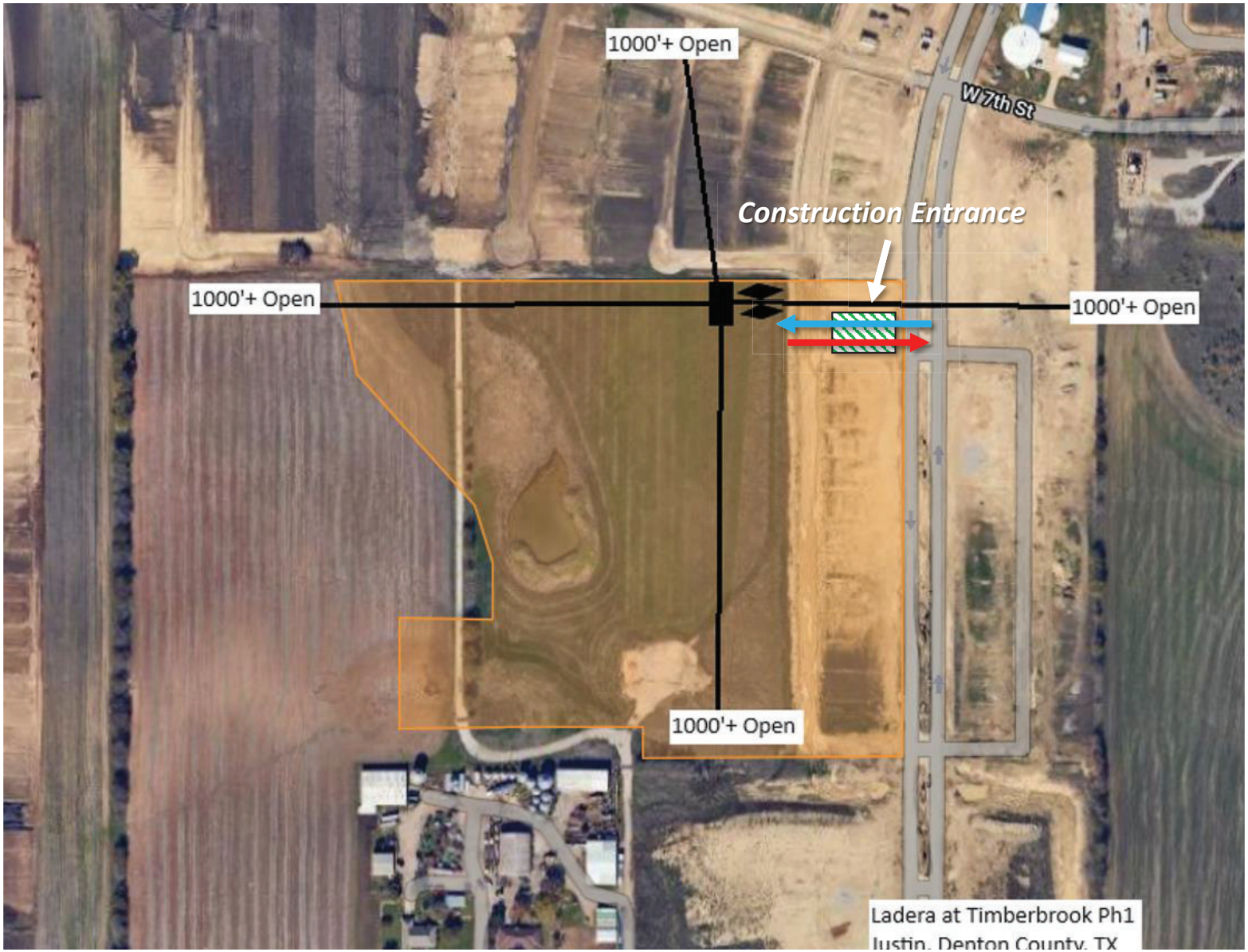
On behalf of L.H. Lacy Company I am submitting the following information with attachments regarding the utilization of a temporary concrete batch plant for the residential paving of Ladera Timberbrook Phase 1. The temporary concrete batch plant will be onsite for approximately 3 weeks & will supply concrete for the street improvements. Please be advised that a TCEQ Permit is in-place to operate this batch plant onsite.

Please call me at the number listed below if you have any questions or concerns regarding this project.

Sincerely,

Matt Terry

Matt Terry
Project Manager
(214)535-4804
mterry@lhlacy.com


1000'+ Open
W 7th St
Construction Entrance
1000'+ Open
1000'+ Open
1000'+ Open
Ladera at Timberbrook Ph1
Justin, Denton County, TX

Jon Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

RECEIVED
JUL 12 2024
BY:

5967

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 10, 2024

Mr. Josh Lowry, Field Administrator
LH Lacy Company
PO Box 541297
Dallas, Texas 75354-1297

Re: Relocation Request for a Concrete Batch Plant; NSR Permit No. 81944L001; 1320' N of FM 407 and 2215' E of Strader Lane (Ladera at Timberbrook Ph 1), Justin, Denton County, Texas;
TCEQ ID Nos.: RN105227532; CN600491294

Dear Mr. Lowry:

This is in response to your relocation application concerning the proposed construction of the above listed concrete batch plant at the above listed location. Based on the information presented, the TCEQ DFW Regional Office Air Program has determined that the proposed authorization can be granted as of the date of this letter to construct and operate the concrete batch plant referenced above at the proposed site, since it is located in or contiguous to the right-of-way of a public works project or related project segments.

The TCEQ DFW Regional Office understands that the concrete batch plant will remain at this site until the completion of the project. This authorization is contingent upon continued compliance with the conditions listed in your permit and with all representations made in your relocation request. Any changes to the representations must have prior written approval from a delegated representative of the executive director.

In addition, you are reminded that all future applications for relocation **must be submitted at least 12 business days prior to your estimated move date** as required by your permit and written authorization must be obtained prior to locating onsite. Failure to do so may result in denial of your relocation request or formal enforcement action.

After completion of construction or modification, start-up notification is required in accordance with 30 TAC 116.115(b)(2)(B)(i). Enclosed is a notification form for you to complete and send in prior to your construction or site move.

You are reminded that regardless of whether a permit is required, these facilities must be in compliance with all regulations of the TCEQ and the U.S. Environmental Protection Agency at all times. If you need further information or have any questions, please contact Ms. Patricia Chen at 817-588-5850.

Sincerely,

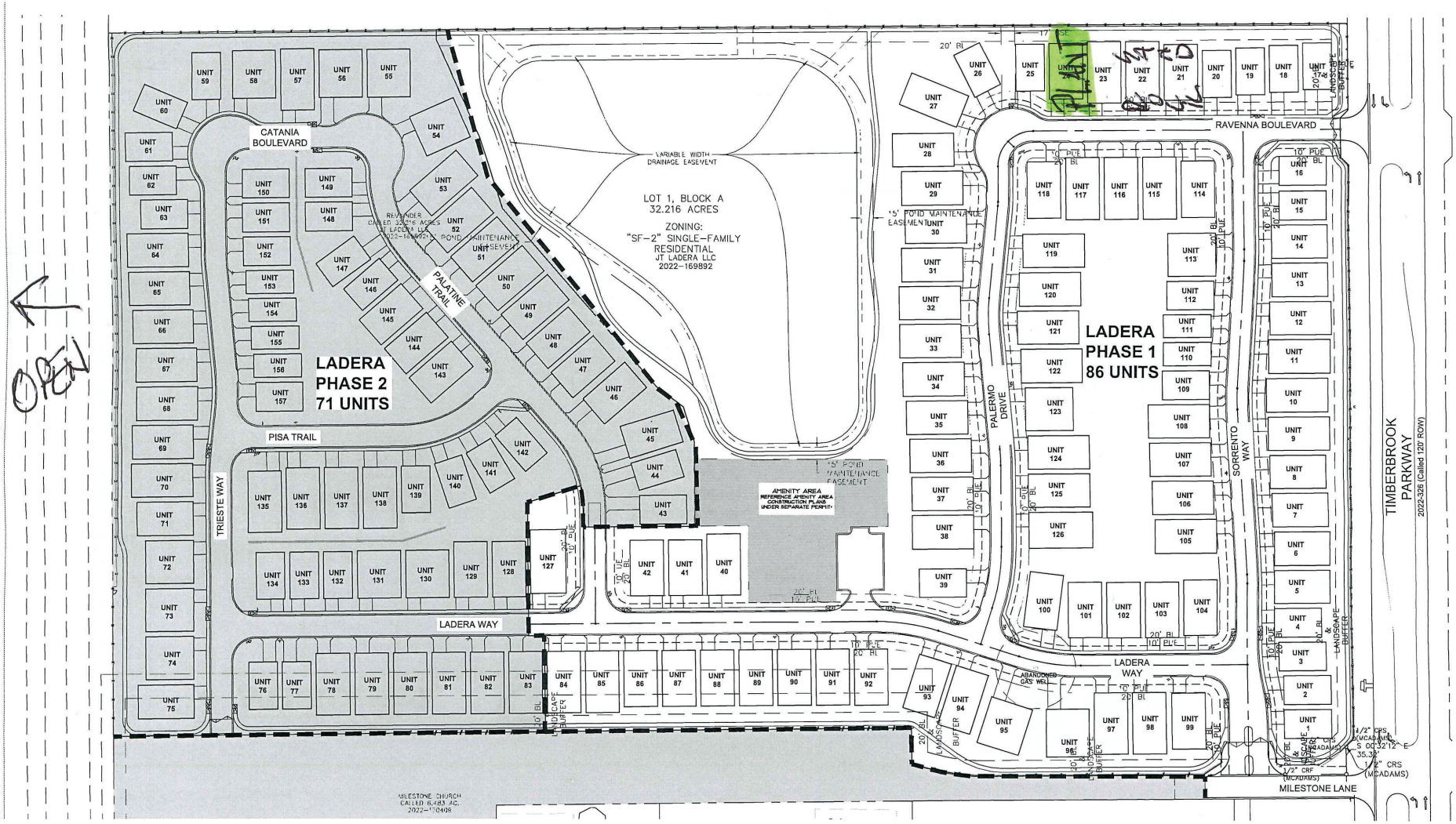
Kimberli Fowler, Air Section Manager
Dallas-Fort Worth Region Office
Texas Commission on Environmental Quality

KSF/alb

Enclosure: *Updated Information for the Movement of a Portable Facility*

5967

OPEN ↑



OPEN ↑

OPEN →

OPEN ↓

BENCHM

TBM #1 CO/
BRONZE DIS
CONCRETE.
BNSF RR BRI
OF JUSTIN. I

TBM #2 "X"
OF WRENW
2334473.16

Jon Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 16, 2024

Dear Applicant:

Re: TPDES General Permit for Discharges from Concrete Production (TXG110000)
Notice of Intent Authorization

Your Notice of Intent application for authorization under the general permit for discharge of wastewater and/or stormwater associated with concrete production activity has been received. Pursuant to authorization from the Executive Director of the Texas Commission on Environmental Quality, the Deputy Director of the Water Quality Division has issued the enclosed Certificate.

Please refer to the attached certificate for the identification number that was assigned to your project/site and the effective date. Please use this number to reference this project/site for future communications with the Texas Commission on Environmental Quality (TCEQ).

A Notice of Termination must be submitted when permit coverage is no longer needed. You may submit the Notice of Termination form electronically as well. **All authorizations that are active on September 1st of each year will assessed an annual fee. The billing statement will be mailed to the Operator in October and payment must be made within 30 days to avoid late fees. It is the responsibility of the Operator to notify the TCEQ Application Review & Processing Team of any change in address supplied on the original Notice of Intent by submitting a Notice of Change**.

All applications must be submitted online using TCEQ's ePermits (STEERS) system, unless the permittee requests and obtains an electronic reporting waiver.

For questions related to processing of forms you may contact the Applications Review & Processing Team at (512) 239-4671 or by email at WQ-ARPTeam@tceq.texas.gov. If you have any questions regarding coverage under this general permit or other technical issues, you may contact the Industrial Permits Team at (512) 239-4671. Also, you may obtain information on the TCEQ website at www.tceq.texas.gov. Permit and application status information can be found on the TCEQ website at https://www.tceq.texas.gov/goto/wq-dpa.

Sincerely,

Robert Sadlier, Deputy Director

Water Quality Division

Texas Commission on Environmental Quality

Concrete Batch Plants NOI

Site Information (Regulated Entity)

What is the name of the site to be authorized?	Ladera at Timberbrook Ph 1 BP
Does the site have a physical address?	No
Because there is no physical address, describe how to locate this site:	Northwest of FM 407 and Linwood Dr
City	Justin
State	TX
ZIP	76247
County	DENTON
Latitude (N) (##.######)	33.089485
Longitude (W) (-###.######)	-97.320849
Primary SIC Code	
Secondary SIC Code	
Primary NAICS Code	
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	
What is the name of the Regulated Entity (RE)?	Ladera at Timberbrook Ph 1 BP
Does the RE site have a physical address?	No
Because there is no physical address, describe how to locate this site:	Northwest of FM 407 and Linwood Dr
City	Justin
State	TX
ZIP	76247
County	DENTON
Latitude (N) (##.######)	33.089485
Longitude (W) (-###.######)	-97.320849
Facility NAICS Code	
What is the primary business of this entity?	

L. H. L-Customer (Applicant) Information (Owner Operator)

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN600491294
Type of Customer	Partnership
Full legal name of the applicant:	
Legal Name	L. H. Lacy Company, LTD.

Texas SOS Filing Number	800079904
Federal Tax ID	10646802
State Franchise Tax ID	17509246207
State Sales Tax ID	
Local Tax ID	
DUNS Number	5779046
Number of Employees	
Independently Owned and Operated?	Yes
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	L. H. Lacy Company, LTD.
Prefix	
First	Brent
Middle	
Last	Morris
Suffix	
Credentials	
Title	Senior Vice President
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1880 CROWN DR STE 1200
Routing (such as Mail Code, Dept., or Attn:)	
City	DALLAS
State	TX
ZIP	75234
Phone (###-###-####)	2143570146
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	bmorris@lhlacy.com

Billing Contact

Responsible contact for receiving billing statements:	
Select the permittee that is responsible for payment of the annual fee.	CN600491294, L. H. Lacy Company, LTD.
Organization Name	L. H. Lacy Company, LTD.
Prefix	

First	
Middle	
Last	
Suffix	
Credentials	
Title	
Enter new address or copy one from list:	CN600491294, L. H. Lacy Company, LTD. Responsible Authority
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1880 CROWN DR STE 1200
Routing (such as Mail Code, Dept., or Attn:)	
City	DALLAS
State	TX
ZIP	75234
Phone (###-###-####)	2143570146
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	bmorris@lhlacy.com

Application Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	CN600491294, L. H. Lacy Company, LTD.
Organization Name	L. H. Lacy Company, LTD.
Prefix	
First	Brent
Middle	
Last	Morris
Suffix	
Credentials	
Title	Senior Vice President
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1880 CROWN DR STE 1200
Routing (such as Mail Code, Dept., or Attn:)	
City	DALLAS
State	TX

ZIP	75234
Phone (###-###-####)	2143570146
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	bmorris@lhlacy.com

CBP General Characteristics

1) Is the project located on Indian Country Lands?	No
2) What is the primary SIC Code?	3273 Ready Mixed Concrete
3) Is the discharge or potential discharge within the Recharge Zone, Contributing zone, within the Contributing zone within the Transition zone, or zero to ten (0 to 10) miles upstream of the Recharge Zone of the Edwards Aquifer?	No
4) What is the operational status of your facility?	Active

Section 1 CBP-Outfalls

Outfall#: 1

What is the outfall number?	001
What type of water is discharged at this outfall?	Stormwater
What is the latitude for this outfall? Latitude (N) (##.######)	33.0874
What is the longitude for this outfall? Longitude (W) (-###.######)	-97.3226
What is the name of the first water body to receive the discharge?	Tributary of Trail Creek
What is the segment number of the classified water body that the discharge will eventually reach?	0826 - Grapevine Lake
Provide a complete description of the discharge route from the first receiving water body to the nearest classified segment.	Discharge will go to a nearby outfall. From there it will travel to a tributary of Trail Creek, which eventually flows into Grapevine Lake.
Is the discharge into Marine Water or Freshwater?	Freshwater

Certification

1) I certify that a Stormwater Pollution Prevention Plan has been prepared and implemented as required in the general permit.	Yes

2) I certify that I have obtained a copy and understand the terms and conditions of the Concrete Batch Plants General Permit (TXG110000).	Yes
3) I certify that the activities at this site qualify for coverage under the Concrete Batch Plants General Permit (TXG110000).	Yes
4) I understand that I must terminate this permit when it is no longer needed.	Yes
5) I understand that permits active on September 1 of each year will be assessed an Annual Water Quality fee in the amount specified in the General Permit.	Yes

Certification

I certify that I am authorized under 30 Texas Administrative Code 305.44 to sign this document and can provide documentation in proof of such authorization upon request.

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

1. I am Brent Morris, the owner of the STEERS account ER032330.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Concrete Batch Plants NOI.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER OPERATOR Signature: Brent Morris OWNER OPERATOR

Customer Number:	CN600491294
Legal Name:	L. H. Lacy Company, LTD.
Account Number:	ER032330
Signature IP Address:	50.84.83.250
Signature Date:	2024-07-03
Signature Hash:	974A0CE7C9019C42A2C8CCD960E20FA741FAAB82DE5B0A43B598187FE5C3D5A2
Form Hash Code at time of Signature:	DB16F9574E748472529B1B0EF827328DCC78FC283396F66CD98ADDEEAE3A78A2

Fee Payment

Transaction by:	The application fee payment transaction was made by ER012934/Debbie M Schneider
Paid by:	The application fee was paid by DON SCHNEIDER
Fee Amount:	$100.00
Paid Date:	The application fee was paid on 2024-07-16
Transaction/Voucher number:	The transaction number is 582EA000617658 and the voucher number is 713173

Submission

Reference Number:	The application reference number is 663842
Submitted by:	The application was submitted by ER049436/Reginald A Hovas
Submitted Timestamp:	The application was submitted on 2024-07-16 at 15:38:50 CDT
Submitted From:	The application was submitted from IP address 172.87.166.210
Confirmation Number:	The confirmation number is 551368
Steers Version:	The STEERS version is 6.79

Additional Information

Application Creator: This account was created by Reginald A Hovas

ORDINANCE NUMBER 791-24

AN ORDINANCE OF THE CITY OF JUSTIN, TEXAS, APPROVING A SPECIFIC USE PERMIT (SUP) FOR A TEMPORARY BATCH PLANT LOCATED ON THE NORTH SIDE OF FM 407 HAVING THE LEGAL DESCRIPTION AS A0439A M. GARNETT, TR 3E, DENTON COUNTY, TEXAS; PROVIDING AN INCORPORATION OF PREMISES; PROVIDING A CUMULATIVE/REPEALER CLAUSE, PROVIDING A SEVERABILITY CLAUSE; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the landowners authorized the applicant legally described as A0439A M. GARNETT, TR 3E, Denton County, TX, requested a Specific Use Permit for a Temporary Batch Plant; and

WHEREAS, the Planning and Zoning Commission of the City of Justin (the "Commission"), in compliance with the laws of the State of Texas, gave the requisite notices by publication and otherwise, and held public hearings and afforded full and fair hearings to all property owners generally and to all persons interested in this regard; and

WHEREAS, having reviewed the request the Commission determined that the change of the proposed SUP was compatible with surrounding uses and the City's Future Land Use Plan and recommended approval of this Ordinance; and

WHEREAS, the City Council of the City of Justin, in compliance with the laws of the State of Texas, having given the requisite notices by publication and otherwise, having held public hearings and afforded full and fair hearings to all property owners generally and to all persons interested in this regard, and having considered the recommendation of the Planning and Zoning Commission, has determined that the proposed SUP for a Temporary Batch Plant is approved and made a part of this ordinance.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF JUSTIN, TEXAS:

Section 1. **Incorporation of Premises**. That all of the above recitals are found to be true and correct and are incorporated into the body of this ordinance as if fully set forth herein.

Section 2. That the Zoning Ordinance of Justin, Texas, regulating property legally described as legally described as A0439A M. GARNETT, TR 3E, Justin, Denton County, Texas, is amended to establish a Specific Use Permit for a temporary batch plant.

Section 3. **Applicable Regulations/Zoning Ordinance and Zoning Map Amended**. Development and use of the property shall follow this ordinance, including all Exhibits thereto as amended hereby, the Code of Ordinances of the City of Justin, Texas, and all applicable state and federal law.

Section 4. Cumulative/Repealer Clause. This ordinance shall be cumulative of all provisions of state or federal law and all ordinances of the City of Justin, Texas, except where the provisions of this ordinance are in direct conflict with the provisions of such other ordinances, in which event the conflicting provisions of such ordinances are hereby repealed to the extent of such conflict.

Section 5. Severability Clause. If any word, section, article, phrase, paragraph, sentence, clause or portion of this ordinance is held to be invalid or unconstitutional by a court of competent jurisdiction, such holding shall not affect for any reason, the validity of the remaining portions of this ordinance, or the Comprehensive Zoning Ordinance, Chapter 52 of the City of Justin Code of Ordinances, and the remaining portions shall remain in full force and effect.

Section 6. Effective Date. This ordinance shall take effect immediately from and after its passage and the publication of the caption, as the law in such cases provides.

Approved first reading this the 26th day of September 2024.

Approved second reading this the ____ day of October 2024.

_____
James Clark, Mayor

ATTEST:

_____
Amy Piukana, City Secretary

Approved as to form:

_____
City Attorney

City Council Coversheet
September 26, 2024
415 N. COLLEGE AVE.

Agenda Item: 1. (ACTION ITEM)

Title: Consider the appointment, reappointment and/or removal of a Park Board Member; and take appropriate action.

Department: Administration

Contact:

Recommendation:

Background:

City Attorney Review:

Attachments:

None