

CITY OF FREDERICKSBURG CITY COUNCIL MEETING

MONDAY, SEPTEMBER 19, 2016 ~ 6:00 p.m.

Law Enforcement Center ~ 1601 East Main Street

Linda Langerhans, Mayor
Graham Pearson, Council Member
Charlie Kiehne, Council Member

Gary Neffendorf, Council Member
Bobby Watson, Council Member
Kent Myers, City Manager

(REQUEST ALL PAGERS AND PHONES BE TURNED OFF, EXCEPT EMERGENCY ON-CALL PERSONNEL)

A G E N D A

CALL TO ORDER.

Page Ref

PLEDGE OF ALLEGIANCE.

1. EMPLOYEE RECOGNITIONS

2. PUBLIC HEARINGS

3. ORDINANCES - RESOLUTIONS - ACTION ITEMS

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| A. Consider Ordinance Amending Golf Course Fees | 1-7 |
| B. Consider Ordinance Amending Recreational Fees | 8-14 |
| C. Consider Resolution Amending Authorized Representatives on TexPool Accounts | 15-18 |
| D. Consider Awarding Contract - Goehmann Lane Pump Station Rebuild | 19-23 |
| E. Consider Professional Services Contract - Landfill Groundwater & Landfill Gas Monitoring Services | 24-25 |
| F. Consider Rejecting Proposals for Hotel/Conference Center | 26-27 |

4. INDIVIDUAL ITEMS FOR CONSIDERATION AND POSSIBLE ACTION

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| A. Receive and Consider Water/Wastewater Master Plan | 28-81 |
| B. Receive Update on Dog Park | |

5. CITY MANAGERS REPORT

- A. Christmas Tree Lighting Ceremony
- B. City Council October 25 Retreat
- C. Marktplatz Improvements
- D. Reorganization Update

6. ITEMS FOR FUTURE AGENDAS

7. PUBLIC COMMENTS This time is for citizens to address the City Council on issues and items of concern not on this agenda. There will be no City Council action at this time.

8. COUNCIL COMMENTS - No discussion or action may take place

9. ADJOURN



CITY COUNCIL MEMO

DATE: September 19, 2015

TO: Mayor and City Council

FROM: Alan Wooley, PGA and Clinton Bailey, P.E., Director of Public Works and Utilities

SUBJECT: New Golf Rates

Summary:

This item is for the introduction and first reading of an ordinance amending the code of ordinances of the City of Fredericksburg, Article 24.100.

Recommendation:

Staff recommends partial approval of the ordinance.

Background / Analysis:

Small increases were proposed during budget hearings this year to annual dues, cart rentals and practice balls. Since that time further discussion has lead staff to believe that these increases may have a detrimental effect on total annual rounds played. Staff recommends that these increases not be made at this time.



The City of Fredericksburg

Staff recommends that the definition of "resident rates" be expanded to include residents in the following counties:

Blanco, Gillespie, Llano, Kendall, Kerr, Kimble and Mason.


Department Approval
City Manager Approval

ORDINANCE NO. _____

AN ORDINANCE AMENDING APPENDIX A FEE SCHEDULE ARTICLE 24 RECREATIONAL FEES, SPECIFICALLY SECTION 24.100 GOLF FEES, AMENDING RATES, ESTABLISHING AN EFFECTIVE DATE, REPEALING INCONSISTENT PROVISIONS, AND PROVIDING FOR PARTIAL INVALIDITY

WHEREAS, The City Council of the City of Fredericksburg has determined that in order to maintain the fiscal viability of the City's parks and recreational operations and to provide pricing options for the same to encourage use of its facilities, that the fees for the use of the City's Lady Bird Johnson Municipal Golf Course should be amended as the same are set forth below; and

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF FREDERICKSBURG, TEXAS THAT THE FOLLOWING ORDINANCE BE AND IS HEREBY ENACTED AND THAT APPENDIX A FEE SCHEDULE **ARTICLE 24, RECREATIONAL FEES** OF THE CODE OF ORDINANCES OF THE CITY OF FREDERICKSBURG BE AMENDED, AND SPECIFICALLY THAT **ARTICLE 24.100 GOLF COURSE FEES** BE AMENDED AS FOLLOWS:

ARTICLE 24.000. RECREATIONAL FEES

Weekday rates will apply on Mondays through Thursdays, and Weekend rates will apply on Fridays through Sundays. The following rates are maximum rates which are subject to the provisions of subsection (o) below.

Section 24.100. Fees for use of Lady Bird Johnson Municipal Golf Course

(a) GUEST RATES FOR RESIDENTS OF BLANCO, GILLESPIE, LLANO, KENDALL, KERR, KIMBLE AND MASON COUNTIES

Weekday 18 Holes – Green Fee-\$27.00/Cart fee-\$14.00 = \$41.00

Weekend 18 Holes – Green Fee-\$33.00/Cart fee -\$14.00 = \$47.00

Weekday 9 Holes – Green Fee-\$19.50/Cart fee-\$7.50 = \$27.00

Weekend 9 Holes – Green Fee-\$22.50/Cart fee-\$7.50 = \$30.00

Twilight Rate – Green Fee-\$18.00/Cart fee-\$14.00 = \$32.00 – Monday thru Thursday

Twilight Rate – Green Fee-\$22.00/Cart fee-\$14.00 = \$36.00 – Friday thru Sunday

(Twilight Times Standard – Standard Time 3:00pm/Daylight Savings 5:00pm)

(b) GUEST RATES FOR NON RESIDENTS OF BLANCO, GILLESPIE, LLANO, KENDALL, KERR, KIMBLE AND MASON COUNTIES

Weekday 18 Holes – Green Fee-\$42.00/Cart fee -\$14.00 = \$56.00

Weekend 18 Holes – Green Fee \$48.00/Cart fee-\$14.00 = \$62.00

Weekday 9 Holes – Green Fee-\$23.00/Cart fee -\$7.50 = \$30.50

Weekend 9 Holes – Green Fee-\$26.00/Cart fee -\$7.50 = \$33.50

Twilight Rate – Green Fee-\$28.00/Cart fee -\$14.00 = \$42.00 – Monday thru Thursday

Twilight Rate – Green Fee-\$33.00/Cart fee -\$14.00 = \$47.00 – Friday thru Sunday

(Twilight Times Standard – Standard Time 3:00pm/Daylight Savings 5:00pm)

(c) SENIOR RATES FOR THE DAYS OF MONDAY THROUGH THURSDAY FOR PERSONS 65 AND OVER

For residents of Gillespie County – Green Fee-\$22.00/Cart fee - \$14.00 = \$36.00

For non-residents of Gillespie County – Green Fee-\$37.00/Cart fee -\$14.00 = \$51.00

(d) MEMBERS RATES (RATES EFFECTIVE JANUARY 1, 2014 through December 31, 2014) (deleted)

(e) JUNIOR RATE FOR RESIDENTS OF BLANCO, GILLESPIE, LLANO, KENDALL, KERR, KIMBLE AND MASON COUNTIES WHO ARE 18 YEARS OF AGE AND UNDER

Weekday 18 holes – Green Fee-\$12.50/Cart fee -\$14.00 = \$26.50

Weekend 18 holes – Green Fee-\$21.25/Cart fee-\$14.00 = \$35.25

Weekday 9 Holes – Green Fee-\$8.50/Cart fee -\$7.50 = \$16.00

Weekend 9 Holes – Green Fee-\$12.50/Cart fee -\$7.50 = \$20.00

(f) JUNIOR RATE FOR NON RESIDENTS OF BLANCO, GILLESPIE, LLANO, KENDALL, KERR, KIMBLE AND MASON COUNTIES WHO ARE 18 YEARS OF AGE AND UNDER

Weekday 18 holes – Green Fee-\$21.00/Cart fee -\$14.00 = \$35.00

Weekend 18 holes – Green Fee-\$24.00/Cart fee-\$14.00 = \$38.00

Weekday 9 Holes – Green Fee-\$11.50/Cart fee-\$7.50 = \$19.00

Weekend 9 Holes– Green Fee-\$13.00/Cart fee-\$7.50 = \$20.50

(g) JUNIOR MEMBERS RATE FOR THOSE WHO ARE 18 YEARS OF AGE AND UNDER

Season Ticket rate: \$110.00 per year effective from April 1 to March 31 of each calendar year.

Weekday 18 holes – Green Fee-\$6.00/Cart fee -\$14.00 = \$20.00
 Weekend 18 holes – Green Fee-\$9.00/Cart fee-\$14.00 = \$23.00
 Weekday 9 Holes – Green Fee-\$4.00/Cart fee -\$7.50 = \$11.50
 Weekend 9 Holes – Green Fee-\$5.00/Cart fee -\$7.50 = \$12.50

(h) FOR MEMBERS OF THE AREA HIGH SCHOOL GOLF TEAM DURING THE REGULAR SCHOOL YEAR Golf team members from area high schools will be charged the Junior Members Season Ticket Rate per team member. This ticket rate will cover their green fees for the entire school year. The high schools to which this rate applies will be as determined by the Lady Bird Johnson Gof Course Director of Golf.

(i) REPLAY RATE-APPLIES AFTER 18 HOLES OF PLAY
 Residents of Blanco, Gillespie, Llano, Kendall, Kerr, Kimble and Mason Counties &
 Non-Residents – Green Fee-\$15.00/Cart fee -\$14.00 = \$29.00
 Members – Green Fee-\$4.00/Cart fee -\$14.00 = \$18.00

(j) SEASON TICKET PRICING
 The following Season Ticket Packages shall be effective from April 1 to March 31 of each calendar year. Purchasers of Season Ticket Packages may choose among the following options for each package year. Season Ticket Packages shall be prorated beginning on July 1 of each year. Once purchased, the Season Ticket may not be refunded, traded in or exchanged for another less expensive package. Season Tickets may be transferred.

- | | |
|-----------------------------------|--------------------------|
| (1) \$320.00 one-time payment | (\$540.00 for couples) |
| \$12.00 weekday green fee | |
| \$17.00 weekend green fee | |
| (2) \$320.00 one-time payment | (\$540.00 for couples) |
| \$100.00 monthly | (\$180.00 for couples) |
| No green fees/unlimited golf | |
| (3) \$1420.00 one-time yearly fee | (\$2,640.00 for couples) |
| No green fees/unlimited golf | |
| (4) three month ticket | |
| \$120.00 one-time payment | (\$215.00 for couples) |

\$12.00 weekday green fee

\$17.00 weekend green fee

This three month ticket may be extended up to two months beyond the initial three for \$50.00 per month for singles and \$75.00 per month for couples

(5) three month ticket

\$120.00 one-time payment

(\$215.00 for couples)

\$125.00 monthly

No green fees/unlimited golf

This three month ticket may be extended for up to two months beyond the initial three for an additional \$50.00 per month for singles and \$75.00 per month for couples

(6) \$1620 cart pass for unlimited cart rental for pared ridership when possible.

All Season Ticket Package holders shall be additionally entitled to a 20% discount on all regular priced wearing apparel purchased from the Lady Bird Pro Shop, a 20% discount on all regular priced menu items in the Red Bird Grill, a 50% discount on the rental of the Cardinal Room. Any guest accompanying a Season Ticket holder will be entitled to pay Guest Rates for Residents of Gillespie County and the other counties listed above ((a) above).

(k) **PRACTICE BALLS**

Small bucket- \$5.50

Large bucket- \$7.00

All provisions of Sec. 24.100 not changed hereby shall remain as written.

The rates set out above will be effective January 1, 2017.

-----End of Code Text-----

Severability / Invalidity.

If any provision of this ordinance or the application hereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications of the ordinance which can be given effect without defeating the purpose or objective of the provisions, and to this end, the provisions of this ordinance are declared to be severable.

Repealer

All ordinances and parts of ordinances in conflict with the provisions of this ordinance are hereby repealed.

Penalties

Penalties provided for in the Code Ordinances of the city of Fredericksburg shall apply to violations hereof.

PASSED AND APPROVED this the _____ day of October, 2016.

Linda Langerhans, Mayor
City of Fredericksburg

ATTEST:

Shelley Britton, City Secretary

APPROVED AS TO FORM:

Pat McGowan, City Attorney



CITY COUNCIL MEMO

DATE: September 19, 2016

TO: Mayor and City Council

FROM: Andrea Warren, Parks & Recreation Director

SUBJECT: Proposed Recreational Fees

Summary:

Recreational fees for the RV Park, pavilion rentals, swimming pool and sports field use should be adjusted to reflect the increased cost of operations and current rates. Current user fees for Marktplatz and Fort Martin Scott should be officially adopted in ordinance form.

Recommendation:

It is recommended to adopt the recreational fees ordinance which amends the section for pool fees and Lady Bird Johnson Municipal Park and campgrounds fees, and adds sections for the use of the sports fields, Marktplatz, and Fort Martin Scott.

Background / Analysis:

In the past few months a fee comparison to other local Parks and Recreation Departments and RV Parks was completed and presented during budget workshops this past summer. The above recommendation puts us in the market where we belong at this time. After the infrastructure project is completed at Lady Bird Johnson Park over the next three to five years, we should review and compare our rates again and consider additional adjustments at that time. Attached is the ordinance and two tables, one with the current rates and the other with the new proposed rates.

(8)

The City of Fredericksburg

Attachments:

Recreational Fee Ordinance, Existing Fee Table, New Proposed Fee Table



Department Approval



City Manager Approval

9

The City of Fredericksburg

City of Fredericksburg

Recreational Fees

As of: May 2016

Marktplatz		Per Day	Per Week		Deposit	Notes
Adelsverein Halle*		\$ 250				
Oktoberfest Halle*		\$ 150				
Kinder Halle*		\$ 150				
Catering Kitchen*		\$ 50				
Fest Room*		\$ 50				
Flaps installation		\$ 400				
1/2 Square			\$ 1,000			
Entire Square*			\$ 2,400			

Lady Bird Park	Each	Per Day	Per Week	Per Month	Deposit	Notes
Pioneer Pavilion*		\$ 500			\$ 500	
Tatsch House*		\$ 150			\$ 100	
Pavilion #1		\$ 25				
Pavilion #2		\$ 30				
Pavilion #3		\$ 35				
Pavilion #4		\$ 35				
Pavilion #5		\$ 50				
RV spots		\$ 35	\$ 210	\$ 420		
Tent Camping		\$ 10				
Ice: 10 lbs.	\$ 3					
Dump/water station	\$ 5					
Showers	\$ 2					

Monthly available September 1 through March 31 only

Park & Town Pools	Per Party	Per Day	Per Week	Per Season	Deposit	Notes
Admission per person		\$ 2				
Season Pass						
Individual				\$ 40		
Family (4)				\$ 80		
Add. Member (each)				\$ 15		
Swim Lessons (each)			\$ 25			
Pool Party						
Pool rental fee	\$ 25					
2 Lifeguards per hour**	\$ 22					
Swimmers (each)	\$ 2					

**Pool party lifeguard fee is \$11 per hour per guard = \$22 per hour minimum at Town Pool and \$33 per hour minimum at Park Pool. More lifeguards are required with larger groups.

Sports Field Use		Per Day			Deposit	Notes
Field Use per field		\$ 15				

Ft. Martin Scott		Per Day			Deposit	Notes
Entire Site		\$ 500			\$ 500	

Lady Bird Park		Per Day			Deposit	Notes
Pavilions/open areas*		\$ 1,600				

*Nonprofit organizations receive a 50% discount on rental rates for these facilities.

City of Fredericksburg

Proposed Recreational Fees

As of: October 1, 2016

Marktplatz		Per Day	Per Week		Deposit	Notes
Adelsverein Halle*		\$ 250				
Oktoberfest Halle*		\$ 150				
Kinder Halle*		\$ 150				
Catering Kitchen*		\$ 50				
Fest Room*		\$ 50				
Entire Square*			\$ 2,400			

Lady Bird Park	Each	Per Day	Per Week	Per Month	Deposit	Notes
Pioneer Pavilion*		\$ 625			\$ 500	
Tatsch House*		\$ 200			\$ 100	
Pavilion #1		\$ 40				
Pavilion #2		\$ 40				
Pavilion #3		\$ 45				
Pavilion #4		\$ 45				
Pavilion #5		\$ 60				
RV spots		\$ 40	\$ 240	\$ 450		
Tent Camping		\$ 10				
Ice: 10 lbs.	\$ 3					
Dump/water station	\$ 5					
Showers	\$ 2					

Monthly available September 1 through March 31 only

Park & Town Pools	Per Party	Per Day	Per Week	Per Season	Deposit	Notes
Admission per person		\$ 2				
Season Pass						
Individual				\$ 50		
Family (4)				\$ 125		
Add. Member (each)				\$ 20		
Swim Lessons (each)			\$ 30			
Pool Party						
Pool rental fee	\$ 40					
2 Lifeguards per hour**	\$ 22					
Swimmers (each)	\$ 2					

**Pool party lifeguard fee is \$11 per hour per guard = \$22 per hour minimum at Town Pool and \$33 per hour minimum at Park Pool. More lifeguards are required with larger groups.

Sports Field Use		Per Day			Deposit	Notes
Field Use per field		\$ 25				

Ft. Martin Scott		Per Day			Deposit	Notes
Entire Site		\$ 500			\$ 500	

Lady Bird Park		Per Day			Deposit	Notes
Pavilions/open areas*		\$ 1,600				

*Nonprofit organizations receive a 50% discount on rental rates for these facilities.

ORDINANCE NO. _____

AN ORDINANCE AMENDING APPENDIX A FEE SCHEDULE ARTICLE 24 RECREATIONAL FEES, SPECIFICALLY AMENDING SECTION 24.200 FEES FOR LADY BIRD JOHNSON PARK POOL AND TOWN POOL, ADDING SECTION 24.300 FEES FOR USE OF SPORTS FIELDS, AMENDING SECTION 24.400 FEES FOR USE OF LADY BIRD JOHNSON PARK AND CAMPGROUNDS, ADDING SECTION 24.500 FEES FOR USE OF MARKTPLATZ , ADDING SECTION 24.600 FEES FOR USE OF FORT MARTIN SCOTT, ESTABLISHING AN EFFECTIVE DATE, REPEALING INCONSISTENT PROVISIONS, AND PROVIDING FOR PARTIAL INVALIDITY.

WHEREAS, The City Council of the City of Fredericksburg has determined that in order to clarify the charges for the use of City facilities and aid in maintaining the fiscal viability of the City's parks and recreational operations that the fees for the use of the City's recreational facilities which are described as follows should be set as the same are set forth below; and

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF FREDERICKSBURG, TEXAS THAT THE FOLLOWING ORDINANCE BE AND IS HEREBY ENACTED AND THAT APPENDIX A FEE SCHEDULE **ARTICLE 24, RECREATIONAL FEES** OF THE CODE OF ORDINANCES OF THE CITY OF FREDERICKSBURG BE AMENDED, AND SECTIONS ADDED AS FOLLOWS:

ARTICLE 24.000. RECREATIONAL FEES

Sec. 24.200.- Fees for use of Lady Bird Johnson park pool and town pool.

- (a) Daily admission per person is Two and no/100 (\$2.00) Dollars.
- (b) Season pass per person is Fifty and no/100 (\$50.00) Dollars.
- (c) Season pass per family not exceeding four (4) persons is One hundred and twenty five and no/100 (\$125.00) Dollars.
- (d) Season pass for a family exceeding four (4) person is One hundred and twenty five and no/100 (\$125.00) Dollars plus Twenty and no/100 (\$20.00) Dollars for each additional person.
- (e) Swim lessons per session (approximately two weeks) is Thirty and no/100 (\$30.00) Dollars per person.
- (f) Pool Party fees are Forty and no/100 (\$40.00) Dollars plus Two and no/100 (\$2.00) Dollars per person plus a minimum of Twenty two and no/100 (\$22.00) Dollars per hour for two lifeguards on duty at Town Pool and a minimum of Thirty three and no/100 (\$33.00) per hour for three lifeguards on duty at Park Pool. The pool supervisor may require additional lifeguards for groups larger than fifty (50) for Eleven and no/100 (\$11.00) Dollars per guard per hour.

Sec. 24.300.- Fees for use of sports fields.

Fees for use of any sports field is Twenty five and no/100 (\$25.00) Dollars per day. This fee does not include any charges for lighting if available.

Sec. 24.400.- Fees for use of Lady Bird Johnson Park and campgrounds.

- (a) Daily rental for Pioneer Pavilion is Six hundred and twenty five and no/100 (\$625.00) Dollars, plus a deposit of Five hundred and no/100 (\$500.00) Dollars.
- (b) Daily rental for the Tatsch House is Two hundred and no/100 (\$200.00) Dollars plus a deposit of One hundred and no/100 (\$100.00) Dollars.
- (c) Weekly rental fee for the entire Lady Bird Johnson Park including all Pavilions and open areas as determined by the City's Director of Parks and Recreation is One thousand six hundred and no/100 (\$1,600.00) Dollars. The following are specifically excluded from entire park rental: Park headquarters building, swimming pool, RV Park, campsites, Dog Park, nature trail and Golf Course. Access to such areas may be closed or restricted for events in the discretion of the Director of Parks and Recreation.
- (d) The Daily rental fee for non-profit associations for Pioneer Pavilion, Tatsch House or the entire Park is one half of the fee set forth in (a), (b) and (c) above except that the full deposit fee will be paid.
- (e) Daily rental for each of Pavilions Nos. 1 and 2 is Forty and no/100 (\$40.00) Dollars.
- (f) Daily rental for each of Pavilions Nos. 3 and 4 is Forty five and no/100 (\$45.00) Dollars.
- (g) Daily rental for Pavilion No. 5 is Sixty and no/100 (\$60.00) Dollars.
- (h) City sponsored events will not be subject to any of the above charges.
- (i) The following fees include water, electricity, sewer, basic cable and basic wireless access for one unit at each campsite:
 - (i) Daily rate for all non-tent campsites is Forty and no/100 (\$40.00) Dollars.
 - (ii) Weekly rate for all non-tent campsites- Two hundred forty and no/100 (\$240.00) Dollars.
 - (iii) Monthly rate for all non-tent campsites- Four hundred fifty and No/100 (\$450.00) Dollars. Monthly rentals are available from September 1 to March 31 of each year.
- (j) Daily rate for tent campsites is Ten and no/100 (\$10.00) Dollars.
- (k) The cost for ten (10) pounds of ice is Three and no/100 (\$3.00) Dollars.
- (l) The fee for each recreational vehicle sewer system dump or clean water fill is Five and no/100 (\$5.00) Dollars.
- (m) The cost of each shower is Two and no/100 (\$2.00) Dollars.

Sec. 24.500.- Fees for use of Marktplatz.

- (a) Daily rental fee for the Adelsverein Halle is Two hundred fifty and no/100 (\$250.00) Dollars.
- (b) Daily rental fee for each of the Oktoberfest Halle and the Kinder Halle is One hundred fifty and no/100 (\$150.00) Dollars.
- (c) Daily rental fee for each of the Catering Kitchen and the Fest Room is Fifty and no/100 (\$50.00) Dollars.
- (d) Rental fee for the entire Marktplatz including all Pavilions and open areas as determined by the Director of Parks and Recreation for one week is Two thousand four hundred and no/100 (\$2,400.00) Dollars, and \$650 for each additional day with a ten (10) day maximum. The following are specifically

excluded from entire Marktplatz rental: City Hall and Fire Station, City Hall annex building, Police Department substation and the Vereins Kirche. Access to such areas may be closed or restricted for events in the discretion of the City's Director of Parks and Recreation.

- (e) The Daily rental fee for non-profit associations for any of the pavilions or the entire Marktplatz is one half of the fee set forth in (a), (b), (c) and (d) above.
- (f) Banner hanging at Marktplatz is Twenty five and no/100 (\$25.00) Dollars per hanging and takedown.

Sec. 24.600,- Fees for use of Fort Martin Scott. Daily rental of Fort Martin Scott to include areas inside the historical fence only, is Five hundred and no/100 (\$500.00) Dollars, plus a deposit of Five hundred and no/100 (\$500.00) Dollars.

The rates set out above will be effective October 1, 2016.

-----End of Code Text-----

Severability / Invalidity.

If any provision of this ordinance or the application hereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications of the ordinance which can be given effect without defeating the purpose or objective of the provisions, and to this end, the provisions of this ordinance are declared to be severable.

Repealer

All ordinances and parts of ordinances in conflict with the provisions of this ordinance are hereby repealed.

Penalties

Penalties provided for in the Code Ordinances of the city of Fredericksburg shall apply to violations hereof.

PASSED AND APPROVED this the 19th day of September, 2016.

Linda Langerhans, Mayor
City of Fredericksburg

ATTEST:

APPROVED AS TO FORM:

Shelley Britton, City Secretary

Pat McGowan, City Attorney
8/30/16



CITY COUNCIL MEMO

DATE: September 19, 2016

TO: Mayor and City Council

FROM: Laura Hollenbeak, Director of Finance

SUBJECT: Resolution Amending Authorized Representatives on TexPool Accounts

Summary:

Due to the recent resignation of Heather Koch, her name should be removed as an authorized representative on the TexPool accounts.

The attached resolution will amend the authorized representatives to Laura Hollenbeak, Dana Smith, and Shelley Britton.

Recommendation:

Staff recommends that the City Council pass this resolution as presented amending the TexPool authorized representatives..

Background / Analysis:

TexPool requires a Resolution Amending Authorized Representatives when a representative needs to be removed from an account.

Attachments:

Resolution Amending Authorized Representatives

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The City of Fredericksburg

Department Approval



City Manager Approval

162

The City of Fredericksburg



Resolution Amending Authorized Representatives

Please use this form to amend or designate Authorized Representatives.

This document supersedes all prior Authorized Representative forms.

* Required Fields

1. Resolution

WHEREAS,

City of Fredericksburg

Participant Name*

7 7 5 3 4

Location Number*

("Participant") is a local government of the State of Texas and is empowered to delegate to a public funds investment pool the authority to invest funds and to act as custodian of investments purchased with local investment funds; and

WHEREAS, it is in the best interest of the Participant to invest local funds in investments that provide for the preservation and safety of principal, liquidity, and yield consistent with the Public Funds Investment Act; and

WHEREAS, the Texas Local Government Investment Pool ("TexPool/ Texpool Prime"), a public funds investment pool, were created on behalf of entities whose investment objective in order of priority are preservation and safety of principal, liquidity, and yield consistent with the Public Funds Investment Act.

NOW THEREFORE, be it resolved as follows:

- A. That the individuals, whose signatures appear in this Resolution, are Authorized Representatives of the Participant and are each hereby authorized to transmit funds for investment in TexPool / TexPool Prime and are each further authorized to withdraw funds from time to time, to issue letters of instruction, and to take all other actions deemed necessary or appropriate for the investment of local funds.
- B. That an Authorized Representative of the Participant may be deleted by a written instrument signed by two remaining Authorized Representatives provided that the deleted Authorized Representative (1) is assigned job duties that no longer require access to the Participant's TexPool / TexPool Prime account or (2) is no longer employed by the Participant; and
- C. That the Participant may by Amending Resolution signed by the Participant add an Authorized Representative provided the additional Authorized Representative is an officer, employee, or agent of the Participant;

List the Authorized Representative(s) of the Participant. Any new individuals will be issued personal identification numbers to transact business with TexPool Participant Services.

1. Laura Hollenbeak

Name

Director of Finance

Title

(830) 990-2015 / (830) 990-2048/ lhollenbeak@fbgtx.org

Phone/Fax/Email

Laura Hollenbeak

Signature

2. Dana Smith

Name

Senior City Accountant

Title

(830) 990-2016 / (830) 990-2048/ dsmith@fbgtx.org

Phone/Fax/Email

Dana Smith

Signature

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1. Resolution (continued)

3. Shelley Britton
Name
City Secretary
Title
(830) 990-2005 / (830) 990-8435 / sbritton@fbgtx.org
Phone/Fax/Email

Signature

4. _____
Name

Title

Phone/Fax/Email

Signature

List the name of the Authorized Representative listed above that will have primary responsibility for performing transactions and receiving confirmations and monthly statements under the Participation Agreement.

Laura Hollenbeak
Name

In addition and at the option of the Participant, one additional Authorized Representative can be designated to perform only inquiry of selected information. This limited representative cannot perform transactions. If the Participant desires to designate a representative with inquiry rights only, complete the following information.

Dana Smith
Name
Senior City Accountant
Title
(830) 990-2016 / (830) 990-2048 / dsmith@fbgtx.org
Phone/Fax/Email

D. That this Resolution and its authorization shall continue in full force and effect until amended or revoked by the Participant, and until TexPool Participant Services receives a copy of any such amendment or revocation. This Resolution is hereby introduced and adopted by the Participant at its regular/special meeting held on the 19th day September, 20 16.

Note: Document is to be signed by your Board President, Mayor or County Judge and attested by your Board Secretary, City Secretary or County Clerk.

City of Fredericksburg
Name of Participant*

SIGNED

Signature*
Linda Langerhans
Printed Name*
Mayor
Title*

ATTEST

Signature*
Shelley Britton
Printed Name*
City Secretary
Title*

2. Mailing Instructions

The completed Resolution Amending Authorized Representatives can be faxed to TexPool Participant Services at 1-866-839-3291, and mailed to:

TexPool Participant Services
1001 Texas Avenue, Suite 1400
Houston, TX 77002

ORIGINAL SIGNATURE AND DOCUMENT REQUIRED

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TEX-REP

2 OF 2



CITY COUNCIL MEMO

DATE: September 19, 2016

TO: Mayor and City Council

FROM: Clinton Bailey, P.E. - Director of Public Works and Utilities

SUBJECT: Contract Award: Goehmann Lane Pump Station Rebuild

Summary:

The following four bids were received for the Goehmann Lane Pump Station Rebuild project on August 4, 2016:

1. Blanchette Field Services - \$189,777.00
2. Rockin Q Construction - \$218,970.00
3. HMC, Inc. - \$256,247.00
4. TTE, LLC - \$295,999.00

The official bid tabulation is included as an attachment to this City Council Memo.

Recommendation:

City Staff recommends awarding the Goehmann Lane Pump Station Rebuild project to Blanchette Field Services in the amount of \$189,777.00. This project will be funded by insurance claim and FEMA disaster assistance dollars.

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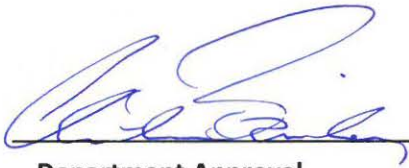
The City of Fredericksburg

Background / Analysis:

The Goehmann Lane Pump Station, located southeast of Fredericksburg on Goehmann Ln, was severely damaged by winds in excess of 90 MPH from an EF1 tornado on May 25, 2015. Damage to the building was so severe that following a damage assessment by Freese and Nichols (attached) it was recommended that the building structure be completely demolished and replaced.

City staff has spent a significant amount of time over the past year working with the City's insurance claims representative, FEMA and Freese and Nichols consulting engineers on the reconstruction of the pump station. If the City Council elects to proceed with awarding the bid, City staff will work with the Contractor to negotiate the bid such that there will be no cost to the City for reconstruction of the pump station.

Attachments: Bid Tabulation and Freese and Nichols Damage Assessment Letter



Department Approval



City Manager Approval

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The City of Fredericksburg

BID TABULATION



**FREESE
AND
NICHOLS**

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www.freese.com

CLIENT: City of Fredericksburg
PROJECT: Goehmann Lane Pump Station Rebuild

PROJECT NO: FRB16436
BID DATE: 8/3/2016

Item No.	Description	Blanchette Field Services				Rockin Q Construcion				HMC, Inc				TTE, LLC			
		Unit	Estimated Quantity	Unit Price	Extended Amount	Unit	Estimated Quantity	Unit Price	Extended Amount	Unit	Estimated Quantity	Unit Price	Extended Amount	Unit	Estimated Quantity	Unit Price	Extended Amount
1	Silt Fence	LS	1	\$1,830.00	\$1,830.00	LS	1	\$580.00	\$580.00	LS	1	\$1,050.00	\$1,050.00	LS	1	\$1,350.00	\$1,350.00
2	Building Demolition	LS	1	\$19,510.00	\$19,510.00	LS	1	\$35,000.00	\$35,000.00	LS	1	\$6,000.00	\$6,800.00	LS	1	\$17,100.00	\$17,100.00
3	Build temp. structure to protect existing operational equip.	LS	1	\$915.00	\$915.00	LS	1	\$4,500.00	\$4,500.00	LS	1	\$3,300.00	\$3,300.00	LS	1	\$8,100.00	\$8,100.00
4	Masonry	LS	1	\$39,320.00	\$39,320.00	LS	1	\$134,750.00	\$134,750.00	LS	1	\$23,200.00	\$23,200.00	LS	1	\$59,400.00	\$59,400.00
5	Roof Framing/Trusses	LS	1	\$14,025.00	\$14,025.00	LS	1	\$0.00	\$0.00	LS	1	\$23,100.00	\$23,100.00	LS	1	\$21,600.00	\$21,600.00
6	R-Panel Metal Roof	LS	1	\$9,755.00	\$9,755.00	LS	1	\$0.00	\$0.00	LS	1	\$16,300.00	\$16,300.00	LS	1	\$18,900.00	\$18,900.00
7	Gutters and Downspouts with splash blocks	LS	1	\$3,050.00	\$3,050.00	LS	1	\$0.00	\$0.00	LS	1	\$0.00	\$0.00	LS	1	\$6,300.00	\$6,300.00
8	Doors, Frames, Hardware and Windows	LS	1	\$3,660.00	\$3,660.00	LS	1	\$0.00	\$0.00	LS	1	\$8,850.00	\$8,850.00	LS	1	\$10,800.00	\$10,800.00
9	Drywall at electrical room	LS	1	\$7,200.00	\$7,200.00	LS	1	\$0.00	\$0.00	LS	1	\$2,300.00	\$2,300.00	LS	1	\$16,200.00	\$16,200.00
10	Patch concrete on near east wall (roughly 12"x12" damaged area)	LS	1	\$305.00	\$305.00	LS	1	\$0.00	\$0.00	LS	1	\$1,350.00	\$1,350.00	LS	1	\$1,000.00	\$1,000.00
11	Painting	LS	1	\$4,890.00	\$4,890.00	LS	1	\$0.00	\$0.00	LS	1	\$9,300.00	\$9,300.00	LS	1	\$10,000.00	\$10,000.00
12	Exhaust Fans	LS	1	\$3,650.00	\$3,650.00	LS	1	\$6,000.00	\$6,000.00	LS	1	\$4,000.00	\$4,000.00	LS	1	\$6,300.00	\$6,300.00
13	Electrical Room HVAC	LS	1	\$10,950.00	\$10,950.00	LS	1	\$0.00	\$0.00	LS	1	\$25,800.00	\$25,800.00	LS	1	\$17,100.00	\$17,100.00
14	Provide new feeders, conduit, breakers, disconnects, and devices for all new work	LS	1	\$30,175.00	\$30,175.00	LS	1	\$27,720.00	\$27,720.00	LS	1	\$65,800.00	\$65,800.00	LS	1	\$13,500.00	\$13,500.00
15	Lighting	LS	1	\$4,265.00	\$4,265.00	LS	1	\$0.00	\$0.00	LS	1	\$0.00	\$0.00	LS	1	\$22,500.00	\$22,500.00
16	Grounding	LS	1	\$1,825.00	\$1,825.00	LS	1	\$0.00	\$0.00	LS	1	\$0.00	\$0.00	LS	1	\$5,900.00	\$5,900.00
17	Seeding disturbed areas after construction	LS	1	\$600.00	\$600.00	LS	1	\$250.00	\$250.00	LS	1	\$500.00	\$500.00	LS	1	\$3,000.00	\$3,000.00
18	Allowance #1 - Install missing dowels in slab for Masonry walls	ea	20	\$30.00	\$600.00	ea	20	\$22.00	\$440.00	ea	20	\$137.50	\$2,750.00	ea	20	\$150.00	\$3,000.00
19	Add Alternate #1 - 7"x7"x5" concrete stoop in front of Double door on north elevation	LS	1	\$800.00	\$800.00	LS	1	\$980.00	\$980.00	LS	1	\$500.00	\$500.00	LS	1	\$4,000.00	\$4,000.00
20	Add Alternate #2 - Re-Grade eroded area at south fence and install 12" Riprap	SY	40	\$20.00	\$800.00	SY	40	\$35.00	\$1,400.00	SY	40	\$15.00	\$600.00	SY	40	\$150.00	\$6,000.00
21	Add Alternate #3 - Re-Grade eroded area at Overflow pipe and install 12" Riprap	SY	10	\$80.00	\$800.00	SY	10	\$35.00	\$350.00	SY	10	\$50.00	\$500.00	SY	10	\$300.00	\$3,000.00
Subtotal					\$158,925.00				\$211,970.00				\$196,000.00				\$255,050.00
Mobilization					\$1,500.00				\$7,000.00				\$19,484.00				\$10,450.00
Subtotal					\$160,425.00				\$218,970.00				\$215,484.00				\$265,500.00
OH&P					\$29,352.00				\$0.00				\$40,763.00				\$29,500.00
Total Bid					\$189,777.00				\$218,970.00				\$256,247.00				\$295,000.00



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www.freese.com

August 7, 2015

Clinton Bailey, P.E.
Director of Public Works and Utilities
City of Fredericksburg
126 West Main Street
Fredericksburg, Texas 78624

Re: Goehmann Lane Pump Station Building Weather Damage Assessment

Mr. Bailey,

Per your request, Freese and Nichols conducted a visit to the Goehmann Lane Pump Station site to observe and assess the weather damage caused to the pump station. Observations of the facility are as noted:

- Roof is 100% destroyed
- North wall (including door) is approximately 60% destroyed and the remaining portion of wall has significant damage
- North portions of east and west walls experienced damage due to failure of the north wall
- Top portions of east and west walls experienced some damage due to failure of the roof
- Top portion of south wall experienced some minor damage due to failure of the roof
- Interior ceiling of electrical room is completely destroyed
- North wall of electrical room is approximately 80% destroyed
- East wall of electrical room is approximately 30% destroyed and remaining portion of wall experienced some damage
- Gantry crane structural frame experienced significant damage including bent framing members
- Electrical systems and lighting experienced significant damage
- Other pump and pump electrical damage occurred but was not included in this assessment

This type of building (masonry load bearing walls with joist/roof trusses) requires a clear load path from roof to foundation through the masonry walls. According to the as-built drawings, the roof trusses should have been welded to a continuous 1/4" steel plate that was anchored to the CMU wall's continuous bond beam with 1/2" diameter anchors spaced at 16" on center. In turn the bond beam should have been anchored to the foundation with 5/8" diameter vertical steel reinforcing bars spaced every 48" and routed into the masonry wall cavities. This anchoring system failed during the wind event as evidenced by the damaged observed.

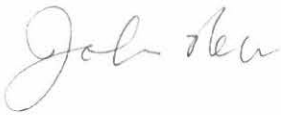
Some of the structural components noted above simply cannot be observed without exposing them which would require more demolition. Furthermore, even if some of these components were exposed, it is difficult to ascertain what stresses they experienced during the weather event and whether their structural integrity was compromised.

Without clear evidence that the remaining wall and roof anchorage system is structurally sound, we cannot assume that simply replacing the damaged walls and roof will result in a structure that meets the original design intent. It is also not practical to provide an adequate anchorage system into an existing wall.

Based on our observations, consultation with our structural engineering staff, and for the reasons noted in this document, we believe it is prudent to remove the existing walls and, if advisable after inspection by an engineer, reuse the foundation for a new construction.

If you have any questions, please do not hesitate to contact me.

Sincerely,
Freese and Nichols, Inc.

A handwritten signature in cursive script that reads "John M. New".

John M. New, P.E.
Construction Services Manager



CITY COUNCIL MEMO

DATE: September 19, 2016

TO: Mayor and City Council

FROM: Clinton Bailey, P.E. - Director of Public Works and Utilities

SUBJECT: Professional Services Contract – Landfill Groundwater and Landfill Gas Monitoring Services

Summary:

This item is for the consideration and approval of a Professional services proposal from Weaver Consultants Group for landfill groundwater and landfill gas monitoring for a 2-year period from October 1, 2016 through September 30, 2018.

Recommendation:

Staff recommends approval of the professional services proposal from Weaver Consultants Group in the amount of \$100,431.

Background / Analysis:

The Texas Commission of Environmental Quality (TCEQ) requires routine annual monitoring of both landfill groundwater and landfill gas at the City of Fredericksburg landfill.

Weaver Consultants Group, LLC has performed these monitoring services for the City of Fredericksburg since 2001. Based on their extensive landfill consulting experience and their understanding of the City's landfill, Weaver Consultants Group has proposed a schedule for a scope of routine monitoring services which includes nine monitoring and reporting tasks which will be completed between October 1, 2016 and September 30, 2018 that meets the requirements of the City's landfill permit with the TCEQ.

Attachments: None



Department Approval

City Manager Approval



CITY COUNCIL MEMO

DATE: September 13, 2016
TO: Mayor and City Council
FROM: Kent Myers, City Manager
SUBJECT: Hotel/Conference Center RFPs

Summary:

The Hotel/Conference Center Screening Committee recently decided to reject the remaining proposals for the hotel/conference center project.

Recommendation:

It is recommended that the City Council approve this recommendation from the Screening Committee.

Background / Analysis:

The Hotel/Conference Center Screening Committee met about two weeks ago to review the two remaining proposals for the hotel/conference center. The Committee determined that there was insufficient information submitted by the two firms. Therefore, they voted unanimously to reject the proposals. They are currently working with the consultant, Tom Hazinski, to revise the RFP. It is hoped that this revised RFP will be available for your consideration at your October 17 Council meeting. If you approve the changes to the RFP, then we will reissue the RFP to companies that have expressed a recent interest in our project.

Attachments:

(26)
The City of Fredericksburg


Department Approval


City Manager Approval



CITY COUNCIL MEMO

DATE: September 19, 2016

TO: Mayor and City Council

FROM: Kris Kneese, P.E., Asst. Director of Public Works and Utilities

SUBJECT: City of Fredericksburg Water, Wastewater, and Reuse Master Plans

Summary:

Freese and Nichols, Inc. (FNI) will present the City of Fredericksburg Water, Wastewater, and Reuse Master Plans.

Recommendation:

N/A

Background / Analysis:

The Water, Wastewater, and Reuse Master Planning efforts, which began in September of last year, are nearing completion and the City's consultant on the project, Freese & Nichols, Inc. will present the full results of the study. The scope of the Water, Wastewater and Reuse Master Planning efforts include:

- Population Growth and Land Use Projections
- Water System Model Development and System Analyses
- Wastewater System Model Development and System Analyses
- Reuse System Analyses
- Development of Capital Improvement Projects (CIPs), including cost estimates and rankings

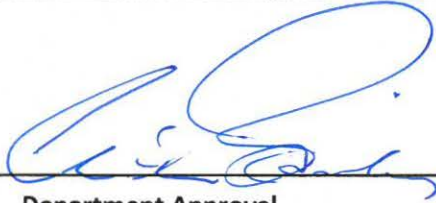
28

The City of Fredericksburg

A copy of FNI's presentation is attached for your review.

Attachments:

FNI Water, Wastewater, and Reuse Master Plans Presentation



Department Approval



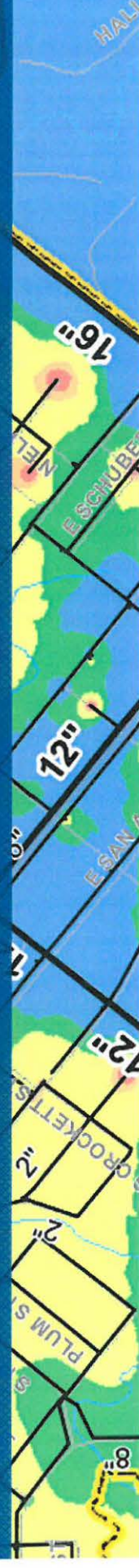
City Manager Approval



WATER, WASTEWATER, AND REUSE SYSTEM MASTER PLAN

City of Frederickburg

September 19, 2016



INNOVATIVE APPROACHES... PRACTICAL RESULTS... OUTSTANDING SERVICE

AGENDA

- **Project Background**
- **Population Land Use Projections**
- **Water System Analyses**
- **Wastewater System Analyses**
- **Reuse System Analyses**
- **Questions / Discussion**

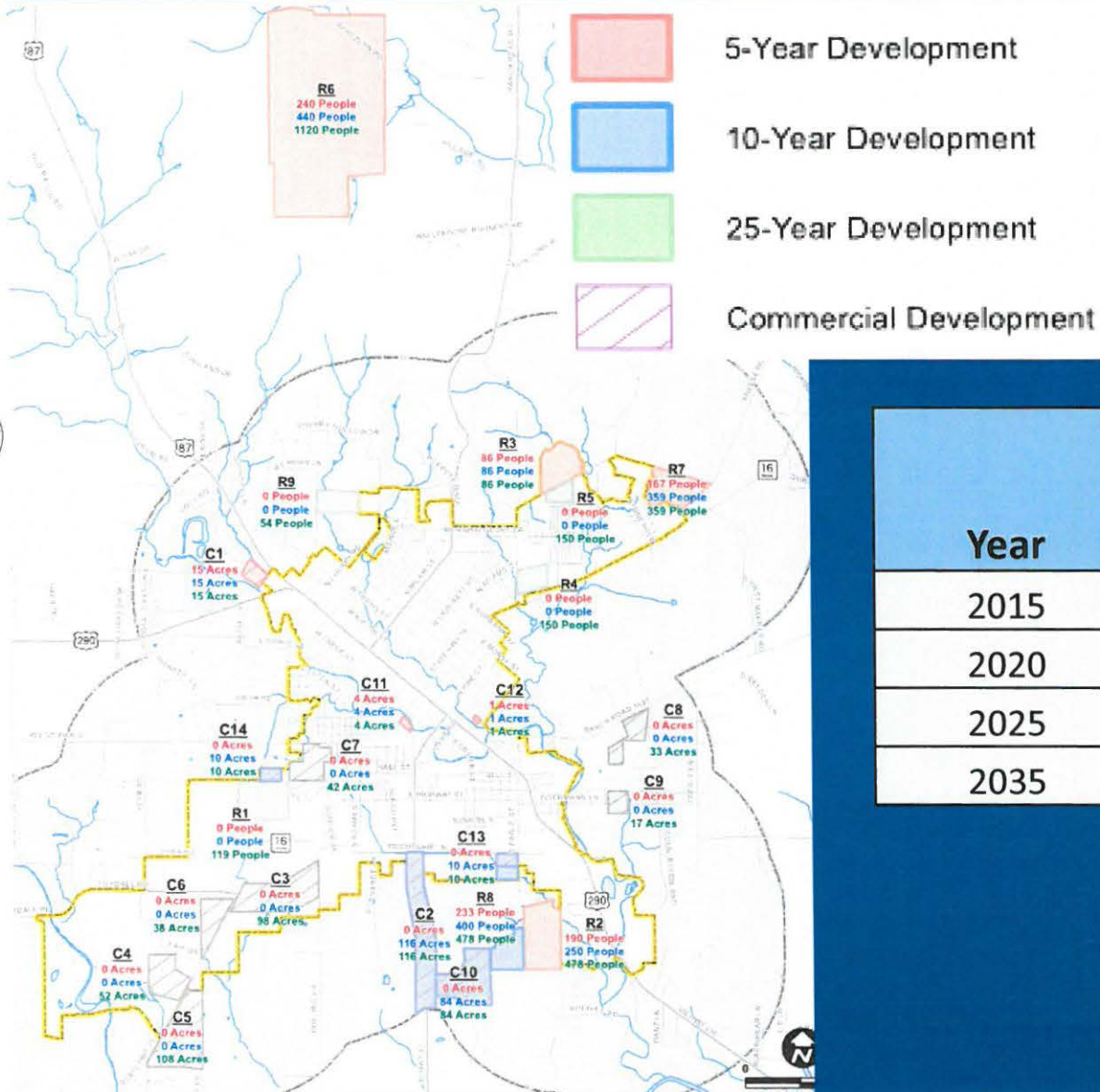
PROJECT BACKGROUND

PROJECT BACKGROUND

- **Began in September 2015**
- **Major Scope Items**
 - Population Growth Projections
 - Water System Analyses
 - Wastewater System Analyses
 - Reuse System Analyses
 - Water, Wastewater, and Reuse Capital Improvements Plans
 - Water, Wastewater, and Reuse System Master Plan Report

POPULATION AND LAND USE ASSUMPTIONS

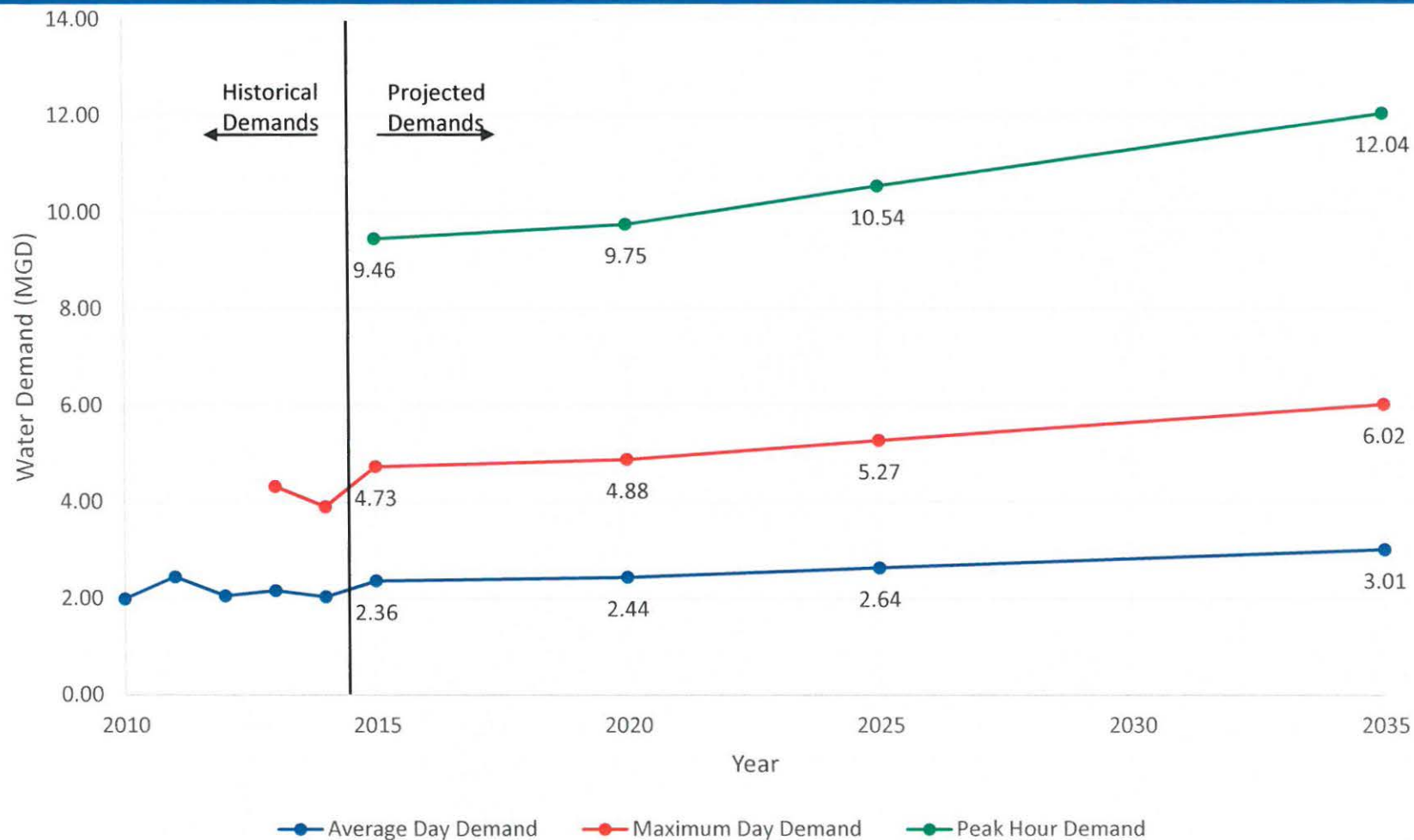
POPULATION AND NON-RESIDENTIAL ACREAGE



Year	Population	Non-Residential Acres
2015	11,018	2,288
2020	11,701	2,308
2025	12,426	2,528
2035	14,014	2,916

WATER SYSTEM ANALYSES

WATER DEMAND PROJECTIONS

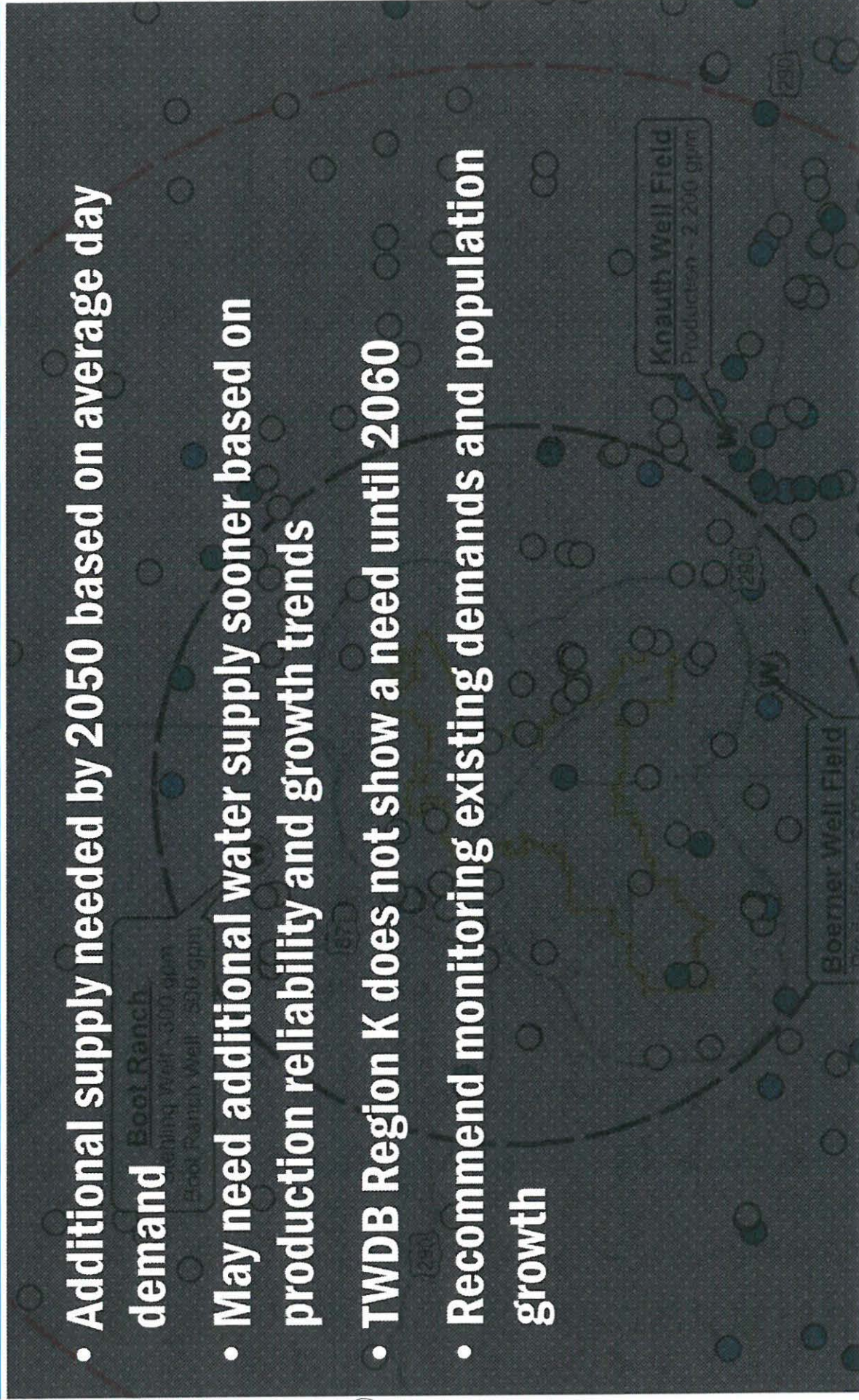


Design Criteria:

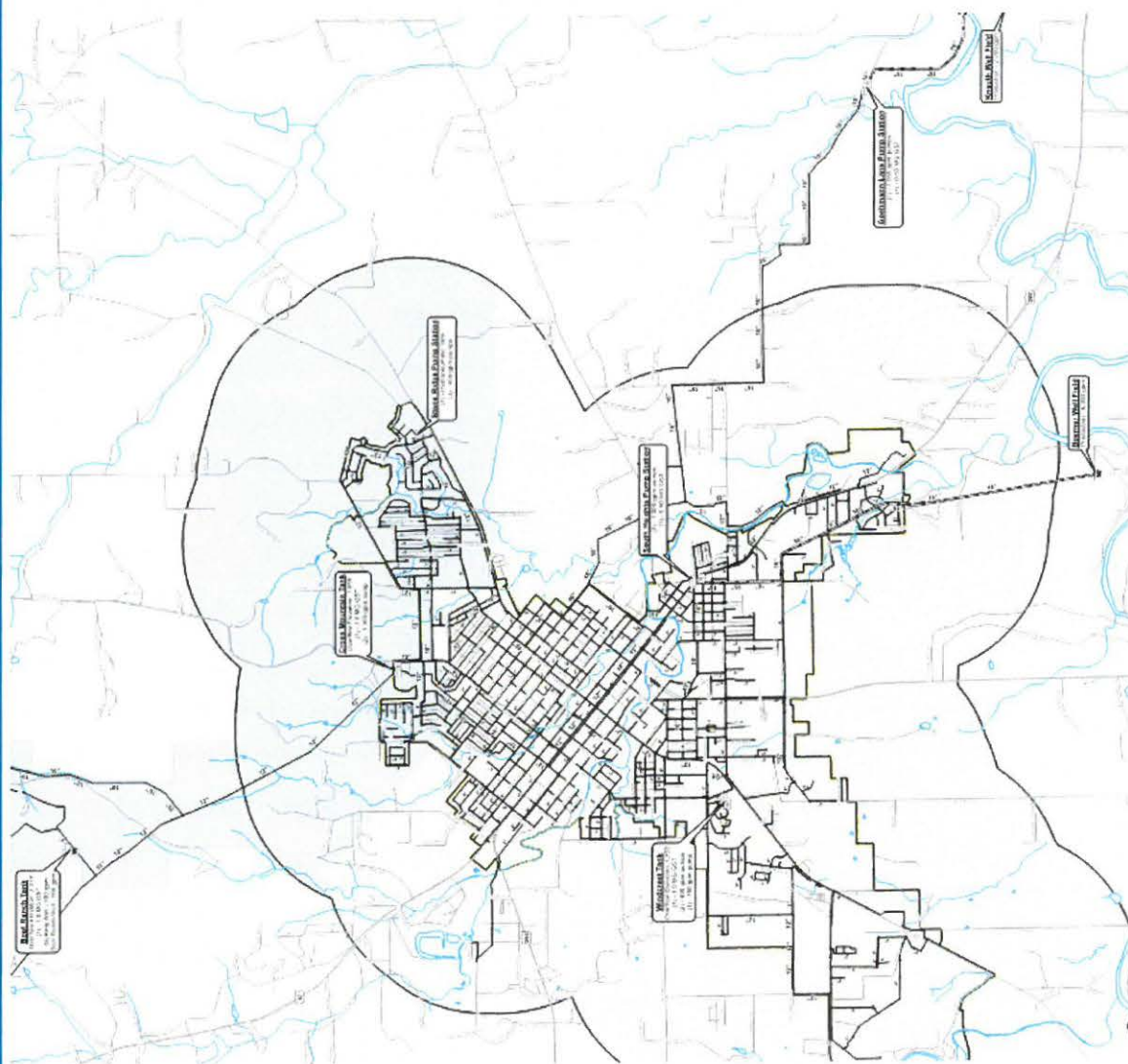
Average Day Residential per-capita = 90 gpcd
Average Day Non-residential per-acre usage = 600 gpad
Maximum Day to Average Day Peaking Factor = 2.00
Peak Hour to Maximum Day Peaking Factor = 2.00

WATER SUPPLY

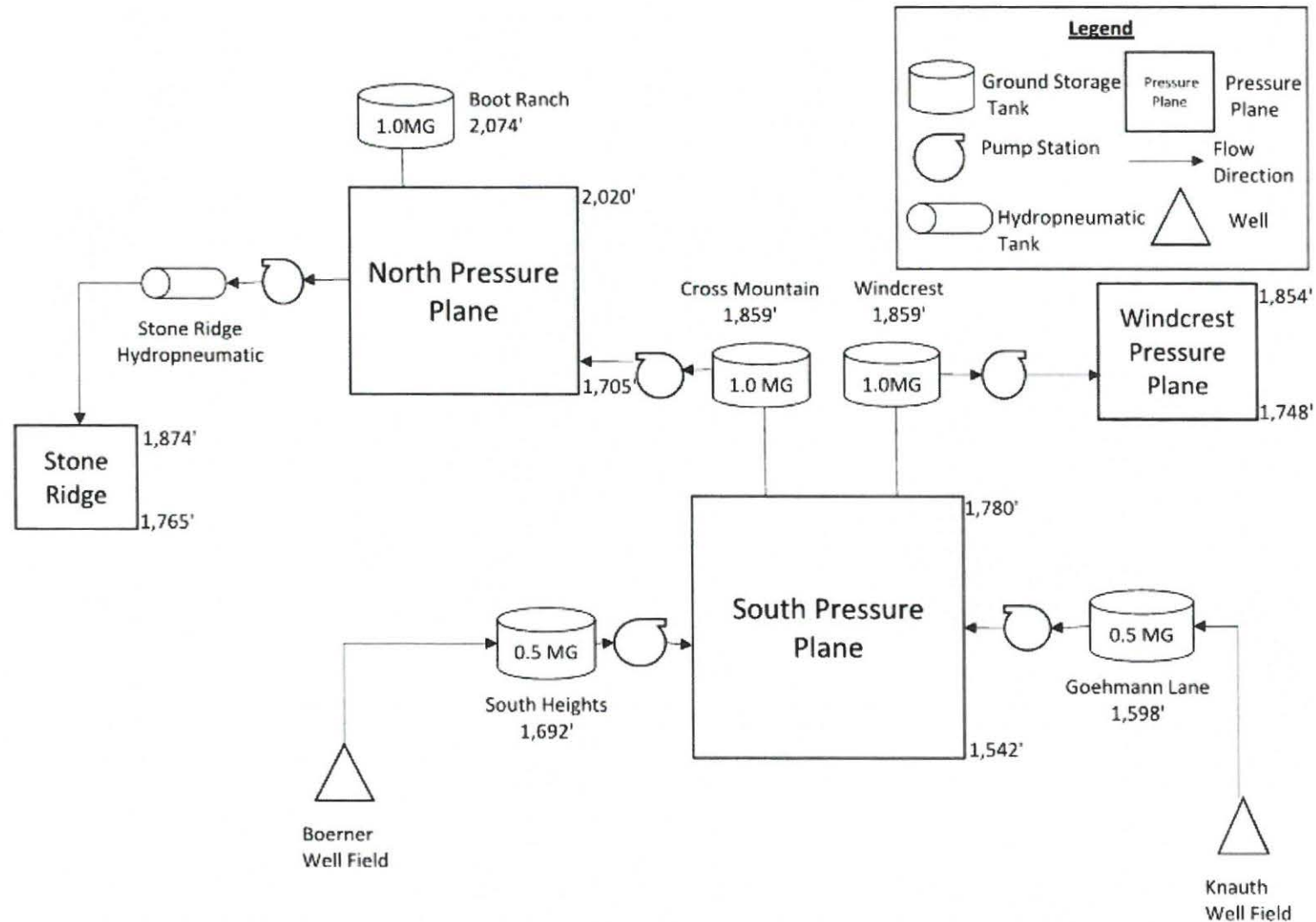
- Additional supply needed by 2050 based on average day demand
- May need additional water supply sooner based on production reliability and growth trends
- TWDB Region K does not show a need until 2060
- Recommend monitoring existing demands and population growth



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WATER SYSTEM SCHEMATIC



WATER SYSTEM RISK BASED ASSESSMENT

- Visited all pump stations and storage tanks
- Rated components of each asset
- Developed overall asset risk score
- Ranked rehabilitation projects

WATER SYSTEM RISK BASED ASSESSMENT

Cross Mountain Pump Station

Inspection Date: 3/22/2016

Facility Information

Address: 1526 N Milam Street
 Year in Service: 2006
 Type of Facility: Horizontal Booster Pump Station
 Number of Pumps: 2
 Firm Capacity: 2 - 1,360
 Horsepower:
 Monitoring:
 Generator:



CONDITION ASSESSMENT

Component Group	Component Condition Rating	Weight Factor	Weighted Component Rating	Comments
Electrical – MCC, Switch Gear, Alternate Power	3	25%	0.75	No alternate power
Pumps and Motors	2	30%	0.60	One pump reworked 2011, Only one pump operates at a time on VFD, Bearings very loud
Instrumentation - SCADA, alarms	2	10%	0.20	Can control via SCADA
Structure - Walls, Roof, Foundation	2	20%	0.40	Walls show some surge issues/settlement, wood supports, A few cracks in pump foundation
Mechanical - HVAC, Piping, Valves, Meters	3	15%	0.45	Passive HVAC, Piping need saddle for supports, signs of thrust wear, coating on pipe deteriorating, Pump pit gets filled with water periodically
Total Inspection Score	-	100%	2.40	
Condition Rating	-	-	2.40	Fair

WATER SYSTEM RISK BASED ASSESSMENT

Goehmann Lane GST

Inspection Date: 3/22/2016

Facility Information

Address: 4310 Goehmann Lane

Year in Service: 2015

Type of Facility: Pre-Stressed Concrete GST

Capacity (MG): 0.5

Overflow Elevation: 1598.7

Diameter (feet): 55

Monitoring:

Tank Entry Point: Roof Hatch & Access Manway



CONDITION ASSESSMENT

Component Group	Component Condition Rating	Weight Factor	Weighted Component Rating	Comments
Mechanical-Piping, Hatches, Valves, Vents	1	20%	0.20	No visible issues.
Tank Structure and Roof Slope	1	50%	0.50	Pre-stressed concrete cylinder tank was built in 2015.
Instrumentation and SCADA	1	10%	0.10	No visible issues.
Tank Overflow	2	10%	0.20	Drainage over roadway can be an issue during tank overflow.
Site - Drainage, Access Drive, Security, Fencing	1	10%	0.10	Existing 0.3 MG tank on site is not in use. Site access and fencing is sufficient.
Total Inspection Score	-	100%	1.10	
Condition Rating	-	-	1.10	Very Good

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WATER SYSTEM CRITICALITY

CRITICALITY ASSESSMENT

Component Group	Component Criticality Rating	Weight Factor	Weighted Component Rating	Comments
Population Served	3	100%	3.00	Serves Boot Ranch and North Pressure Plane, Population: 2660
System Redundancy Adjustment			1.00	Exclusive Service
Criticality Rating	-	100%	4.00	High

Population Served

> 6,000 = 5

3,001 – 6,000 = 4

1,501 – 3,000 = 3

501 – 1,500 = 2

≤ 500 = 1

WATER SYSTEM RISK BASED ASSESSMENT

Risk Rating = Condition + Criticality		Condition Ranking				
		Very Good	Good	Fair	Poor	Very Poor
Criticality Ranking	Very Low Impact					
	Low Impact		Windcrest GST	Stone Ridge PS	Windcrest PS	
	Moderate Impact					
	High Impact		Goehmann Ln GST South Heights GST	Cross Mtn PS South Heights PS Cross Mtn GST Boot Ranch GST		Goehmann Ln PS
	Very High Impact					

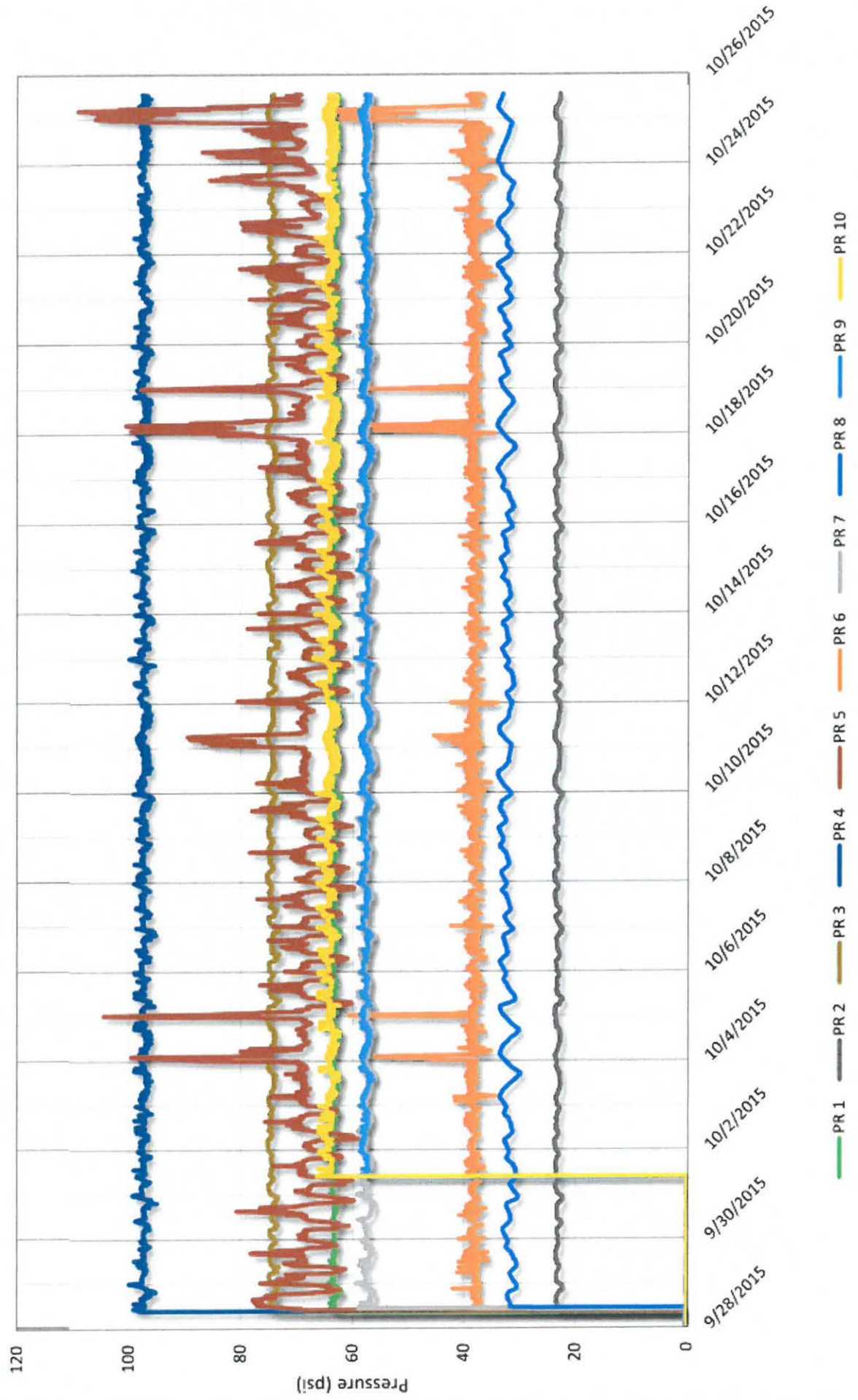
Condition Score Ranges

Condition Score	Description
0.00 - 1.25	Very Good
1.25 - 2.00	Good
2.00 - 3.00	Fair
3.00 - 4.00	Poor
4.00 - 5.00	Very Poor

Criticality Score Ranges

Risk Score	Description
0.00 - 1.25	Very Low
1.25 - 2.00	Low
2.00 - 3.00	Moderate
3.00 - 4.00	High
4.00 - 5.00	Very High

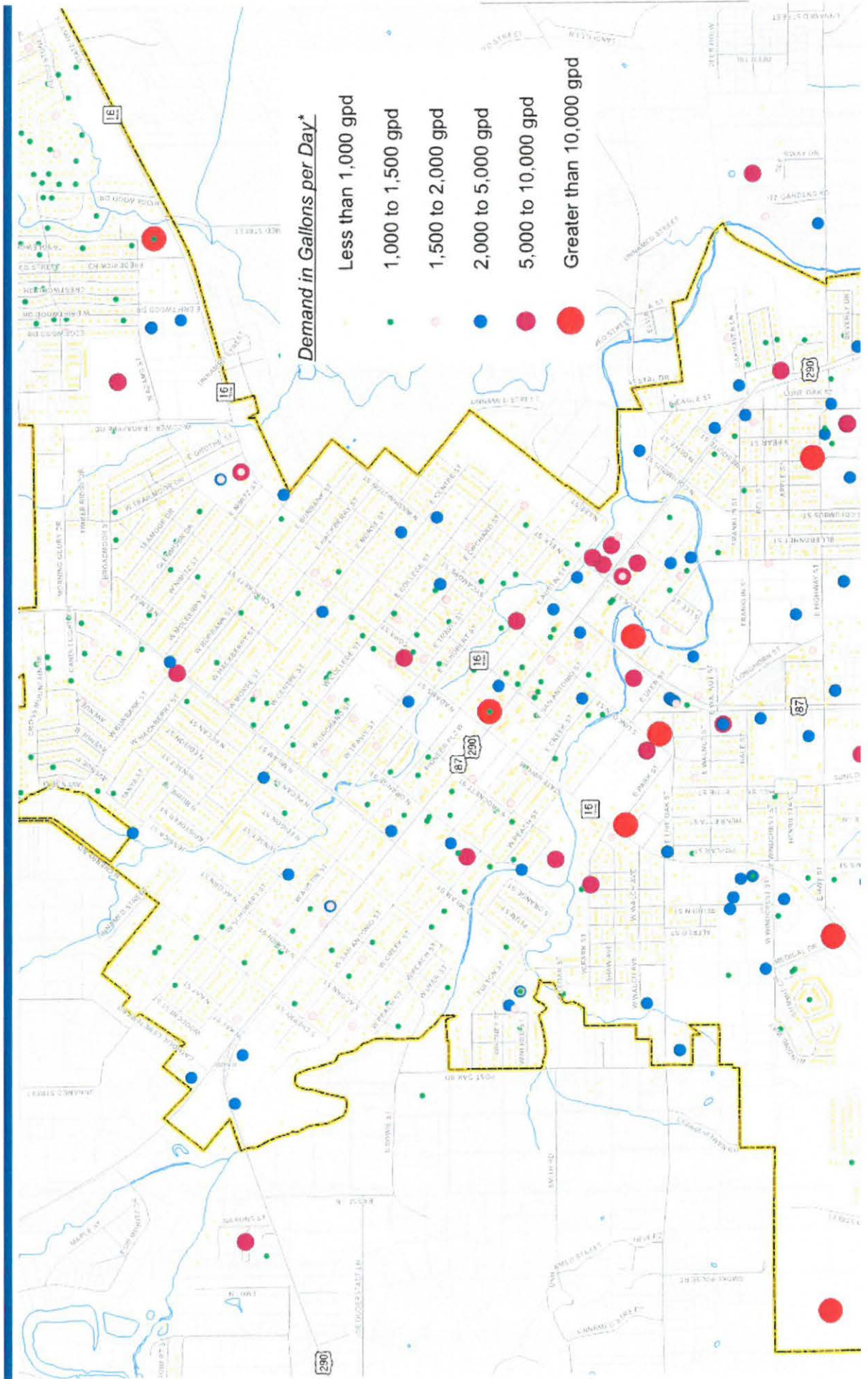
PRESSURE TESTING



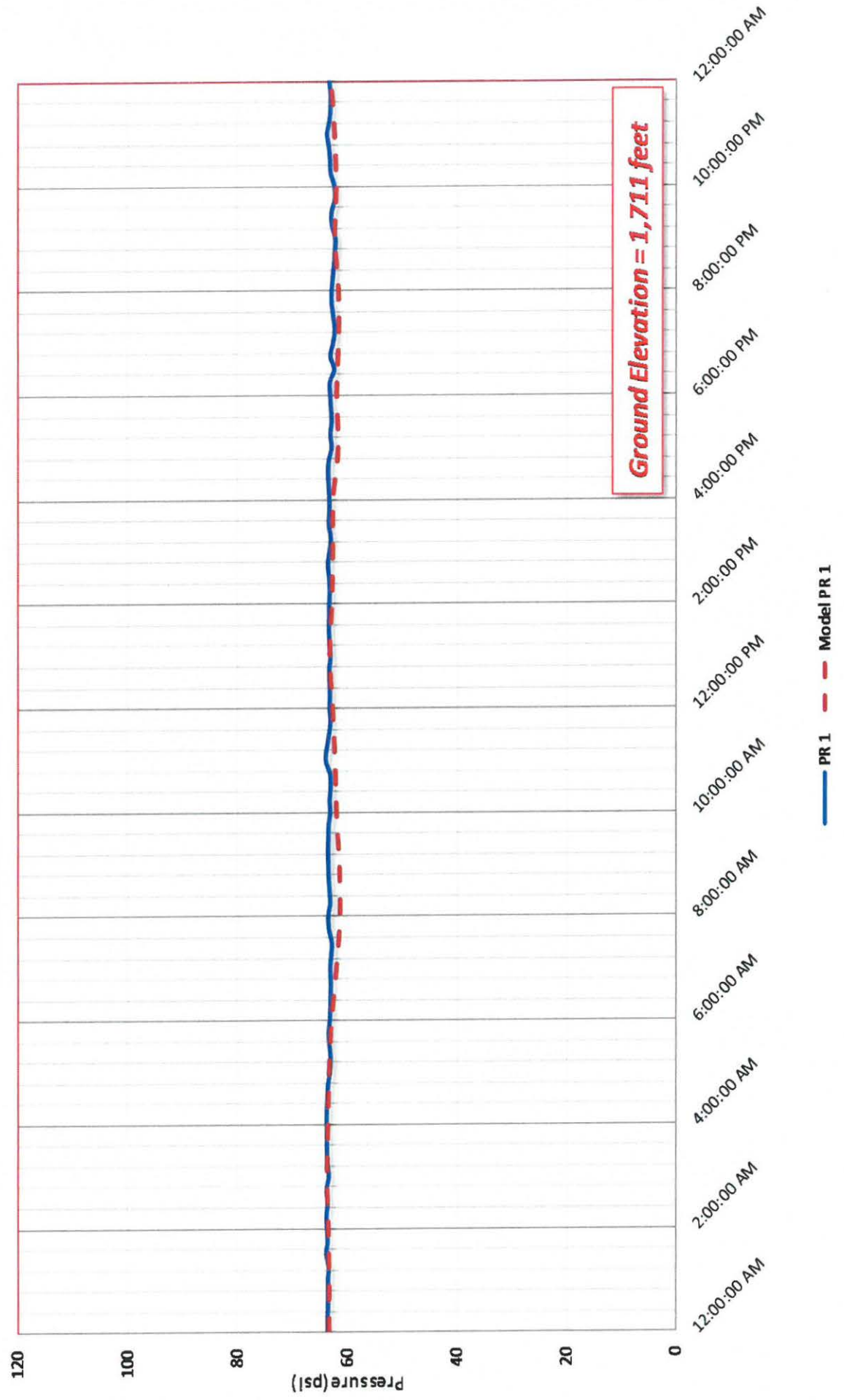
WATER MODEL DEVELOPMENT

- **Model developed based on GIS data**
- **24-hour extended period simulation calibration**
- **Very good calibration results**

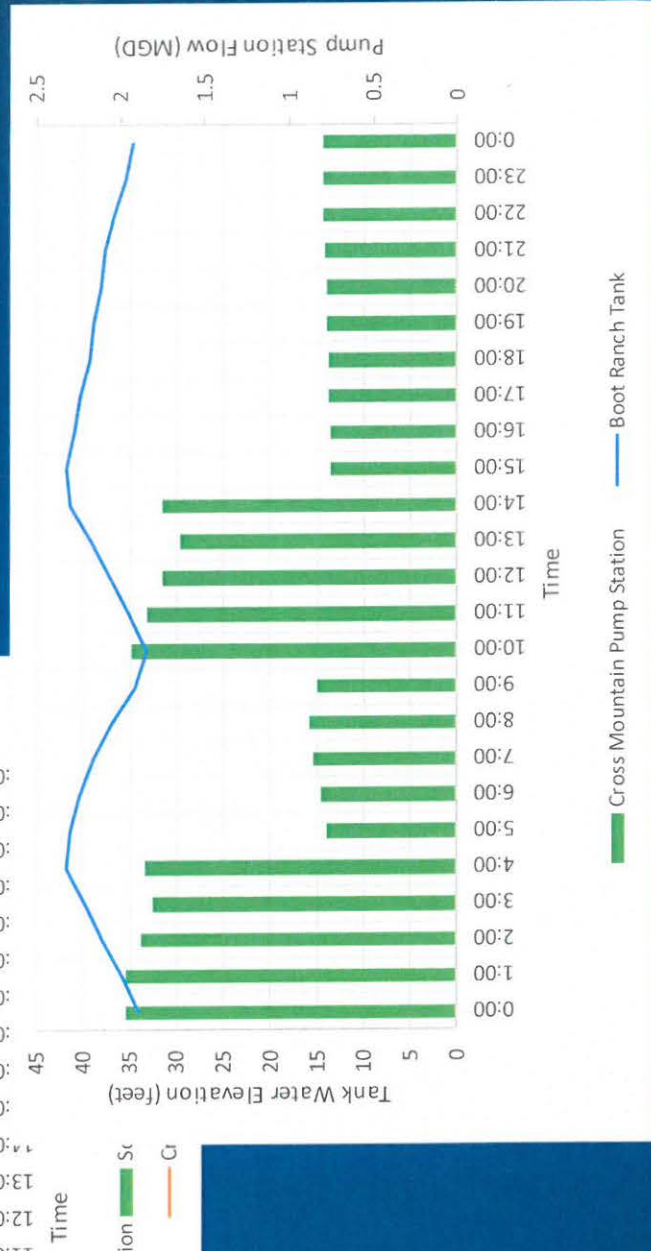
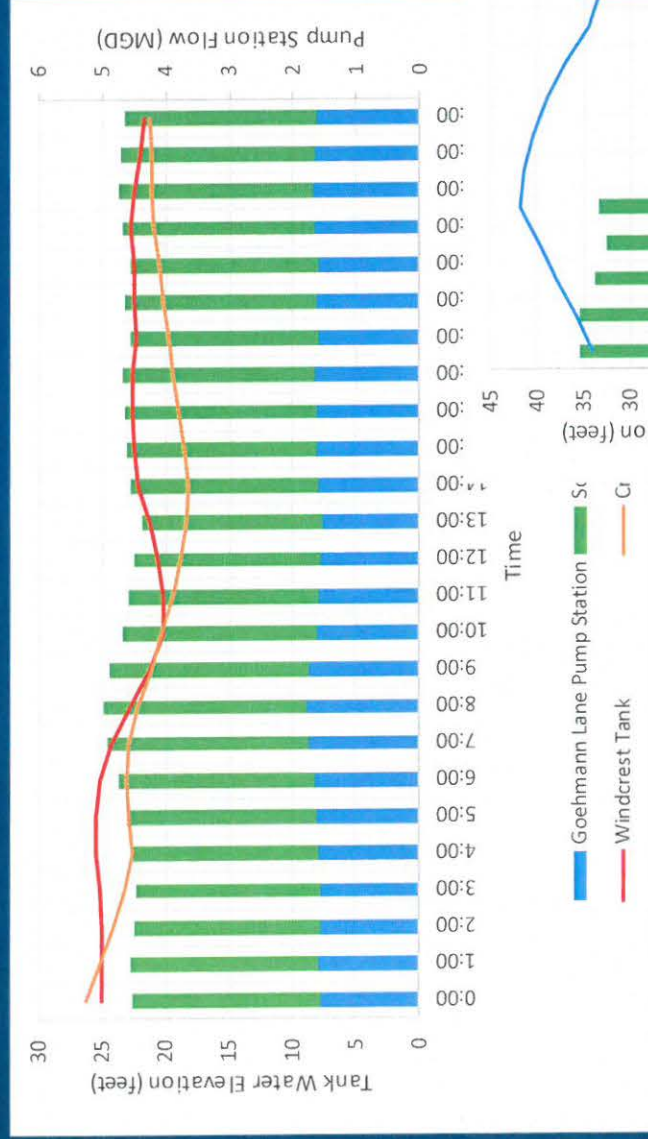
WATER MODEL DEVELOPMENT



WATER MODEL CALIBRATION



WATER SYSTEM ANALYSES: EXISTING SYSTEM

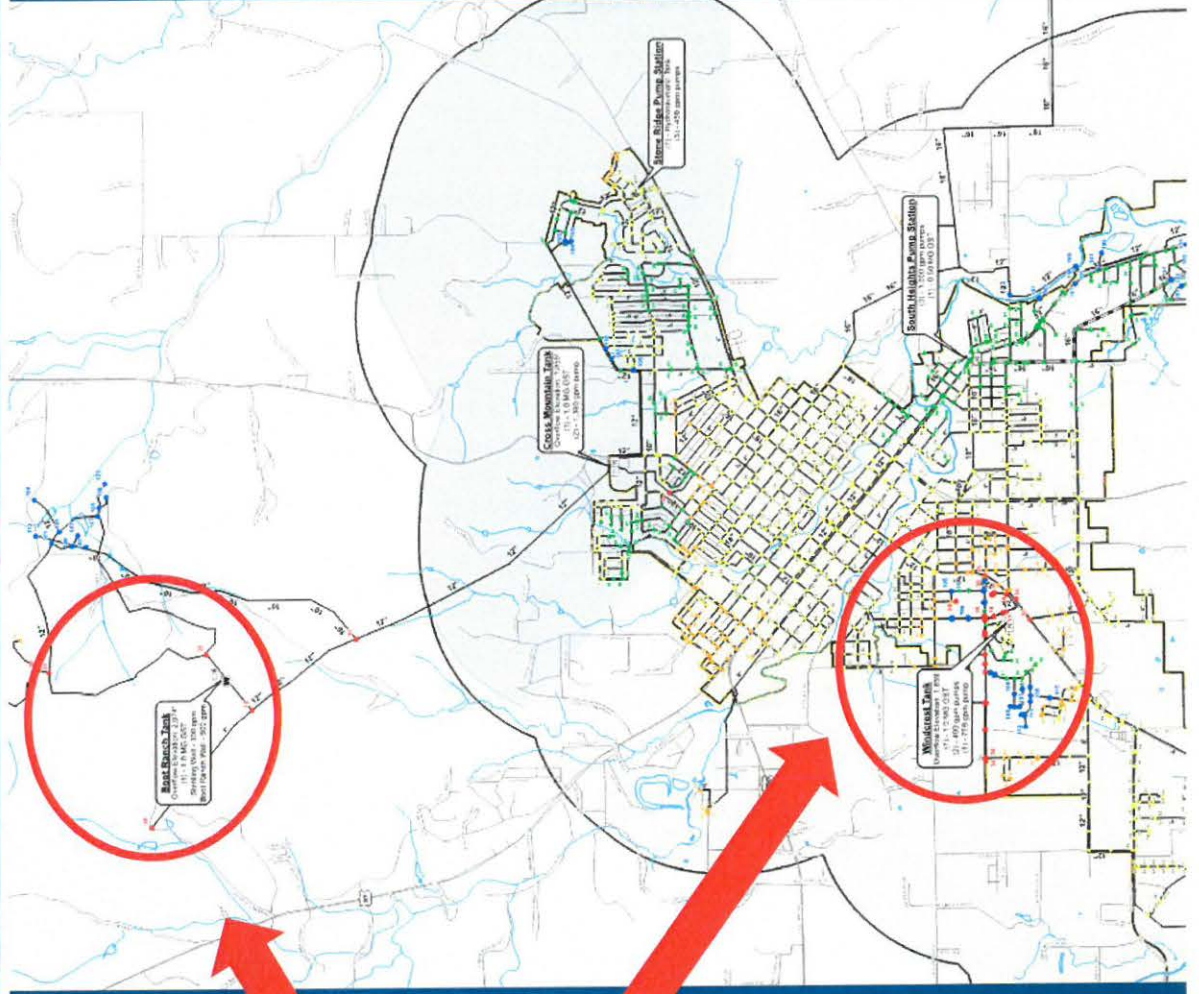


WATER SYSTEM ANALYSES: EXISTING SYSTEM

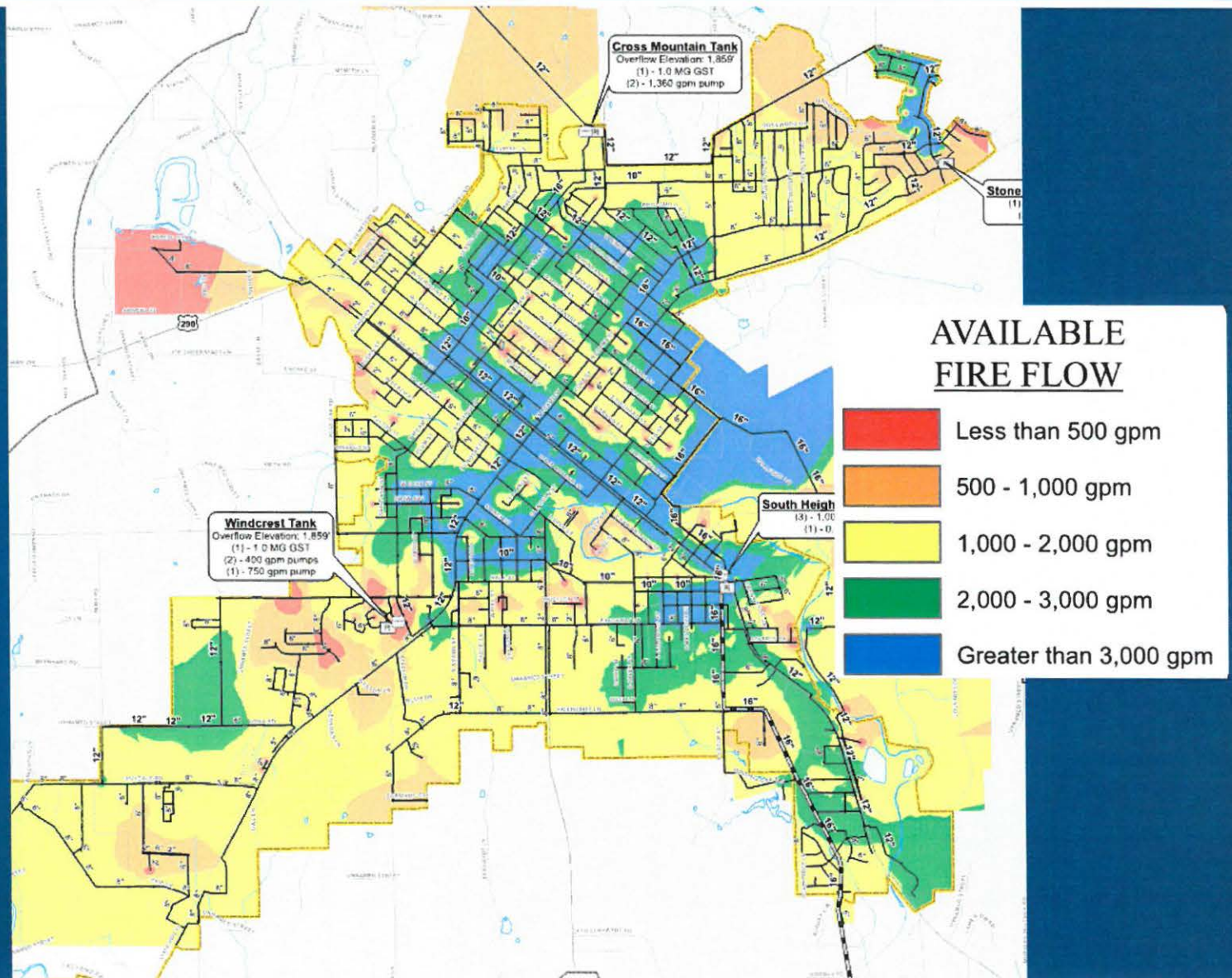
Low Pressure

Minimum Pressures

- Under 35 psi
- 35 - 50 psi
- 50 - 80 psi
- 80 - 100 psi
- Over 100 psi



WATER SYSTEM ANALYSES: EXISTING SYSTEM



WATER SYSTEM ANALYSES: EXISTING SYSTEM

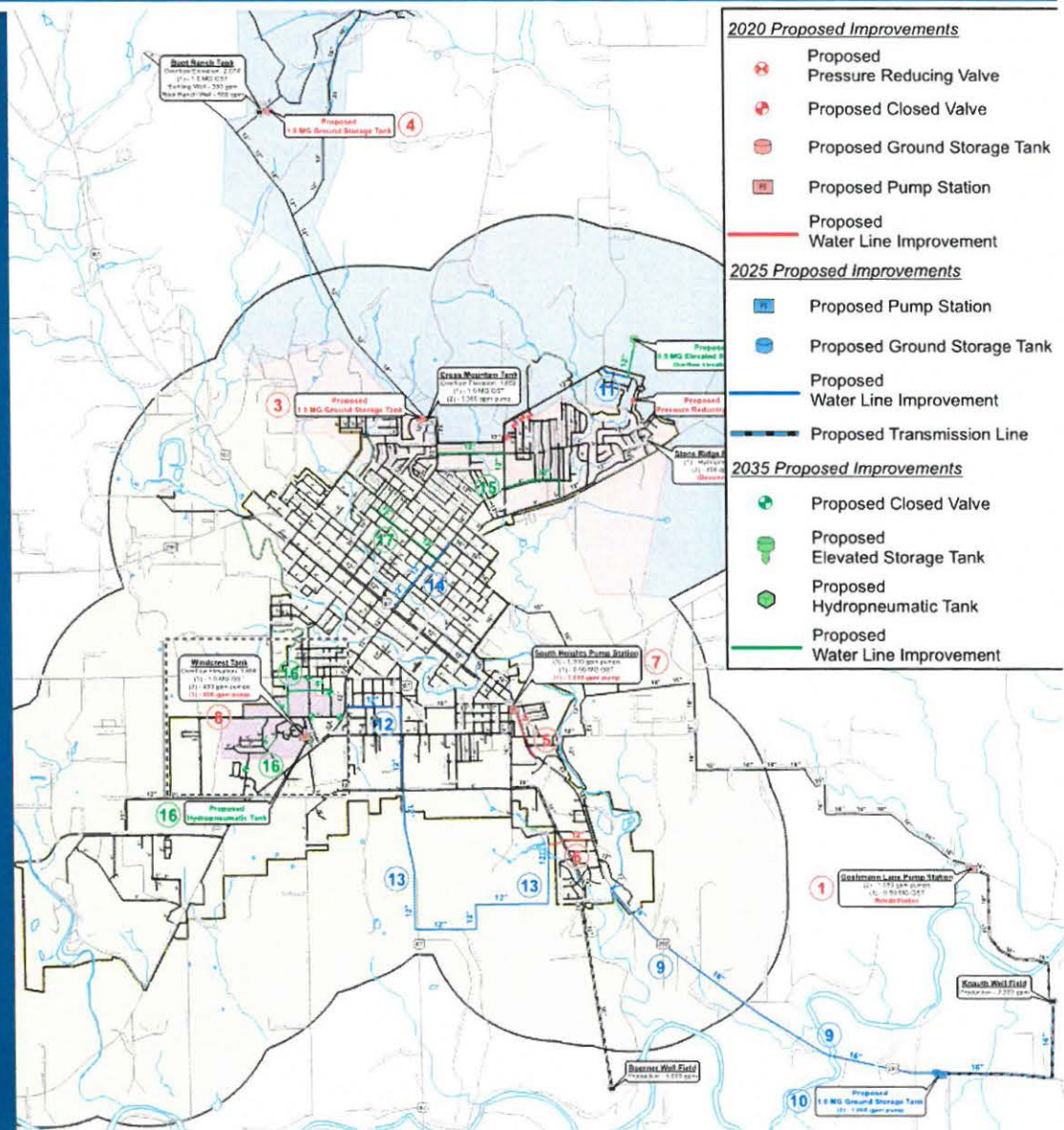
- **Storage and Pumping Capacity Evaluation**
 - Existing system meets all TCEQ requirements for pumping
 - Need additional storage in the Windcrest Pressure Plane
- **Fire Flow Analysis**
 - Most of system provides at least 1,000 gpm available fire flow capacity
 - A few areas of low fire flow capacity

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- **Pumping and Storage**

- New Pump Station from Knauth Well Field
- Expand pumping at Windcrest and South Heights
- New tank at Windcrest
- New North Pressure Plane tanks for redundancy

- New lines to serve growth



SHORT-TERM WATER CIP

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Phase	CIP No.	Project Name	Cost
5-Year	1	Goehmann Lane Pump Station Rehabilitation	\$971,800
	2	North Pressure Plane Pressure Reducing Valve	\$134,600
	3	Cross Mountain Ground Storage Tank	\$1,868,800
	4	Boot Ranch Ground Storage Tank	\$1,868,800
	5	12-inch Line from South Heights Pump Station	\$807,300
	6	12-inch Line to New Development	\$598,000
	7	1,000 gpm Pump at South Heights Pump Station	\$299,000
	8	400 gpm Pump at Windcrest Pump Station	\$149,500
		5 Year Total	\$6,697,800

WATER CIP

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Phase	CIP No.	Project Name	Cost
5-Year	1	Goehmann Lane Pump Station Rehabilitation	\$971,800
	2	North Pressure Plane Pressure Reducing Valve	\$134,600
	3	Cross Mountain Ground Storage Tank	\$1,868,800
	4	Boot Ranch Ground Storage Tank	\$1,868,800
	5	12-inch Line from South Heights Pump Station	\$807,300
	6	12-inch Line to New Development	\$598,000
	7	1,000 gpm Pump at South Heights Pump Station	\$299,000
	8	400 gpm Pump at Windcrest Pump Station	\$149,500
			\$6,697,800
10-Year	9	16-inch Line to Proposed Pump Station	\$6,879,200
	10	Proposed Pump Station and Ground Storage Tank	\$7,242,600
	11	12-inch Line along Summit Forest	\$418,600
	12	12-inch Line along Hale Street	\$1,883,700
	13	12-inch Line along Highway 87	\$3,698,700
	14	12-inch Line along North Adams Street	\$1,390,400
			\$21,513,200
0-Year	15	12-inch Line along Morning Glory Drive	\$2,362,100
	16	Windcrest Area Improvements	\$885,100
	17	12-inch Line along East Centre Street	\$1,166,100
	18	0.5 MG Elevated Storage Tank	\$2,706,000

WASTEWATER SYSTEM ANALYSES

WASTEWATER FLOW PROJECTIONS



Design Criteria:

Average Day Residential per-capita = 54 gpcd

Average Day Non-residential per-acre usage = 360 gpad

WASTEWATER SYSTEM RISK BASED ASSESSMENT

- Visited 17 lift stations
- Rated components of each asset
- Developed overall asset risk score
- Ranked rehabilitation projects



WASTEWATER SYSTEM RISK BASED ASSESSMENT

East Side Lift Station

Inspection Date: 3/22/2016

Facility Information

Address: 1460 East Main Street
 Year in Service: 2010
 Type of Facility: Two Dulpex Submersible Lift Stations
 Number of Pumps: 4
 Capacity (gpm): 1160.0
 Horsepower:
 Monitoring: No SCADA
 Generator: Portable Generator Connection



CONDITION ASSESSMENT

Component Group	Component Condition Rating	Weight Factor	Weighted Component Rating	Comments
Electrical – MCC, Back-up Power, Cables	3	20%	0.60	Portable generator connection (City maybe has one)
Pumps and Motors	3	20%	0.60	2 wet wells float together, 4 pumps, pulling cables broken on pumps – should be replaced
Instrumentation – SCADA, alarms	4	15%	0.60	Not likely on SCADA
Structure – Wet Well, Hatches, Corrosion, Cracks, Leaking, Ventilation, Odor Control	1	20%	0.20	Coating OK, very minimal corrosion
Piping and Valves	2	15%	0.30	Minimal corrosion, minimal water pooling in valve vault.
Site – Drainage, Access Drive, Security, Fencing	3	10%	0.30	Barbed wire fence above wood fence is too low.
Total Inspection Score	-	100%	2.60	
Condition Rating	-	-	2.60	Fair

WASTEWATER SYSTEM CRITICALITY

CRITICALITY ASSESSMENT				
Component Group	Component Criticality Rating	Weight Factor	Weighted Component Rating	Comments
Environmentally Sensitive Areas	5	25%	1.25	
Population Served	3	50%	1.50	
High Impact Areas	2	25%	0.50	
Criticality Rating	-	100%	3.25	High

- **Environmentally Sensitive Areas:** ponds, rivers, streams
- **High Impact Areas:** hospitals, schools, recreational areas, residential or commercial structure

WASTEWATER SYSTEM RISK BASED ASSESSMENT

Risk Rating = Condition + Criticality		Condition Ranking				
		Very Good	Good	Fair	Poor	Very Poor
Criticality Ranking	Very Low Impact			Windcrest	Consolidated Warehouse Bob White	
	Low Impact			Heritage HC Fair Grounds	Green Meadows Fair Grounds Milam Herb Farm Boot Ranch B Boot Ranch D	Boot Ranch C
	Moderate Impact			HC University Beverly Drive	FBG Inn & Suites Walk Bridge Boot Ranch A	
	High Impact			East Side		
	Very High Impact					

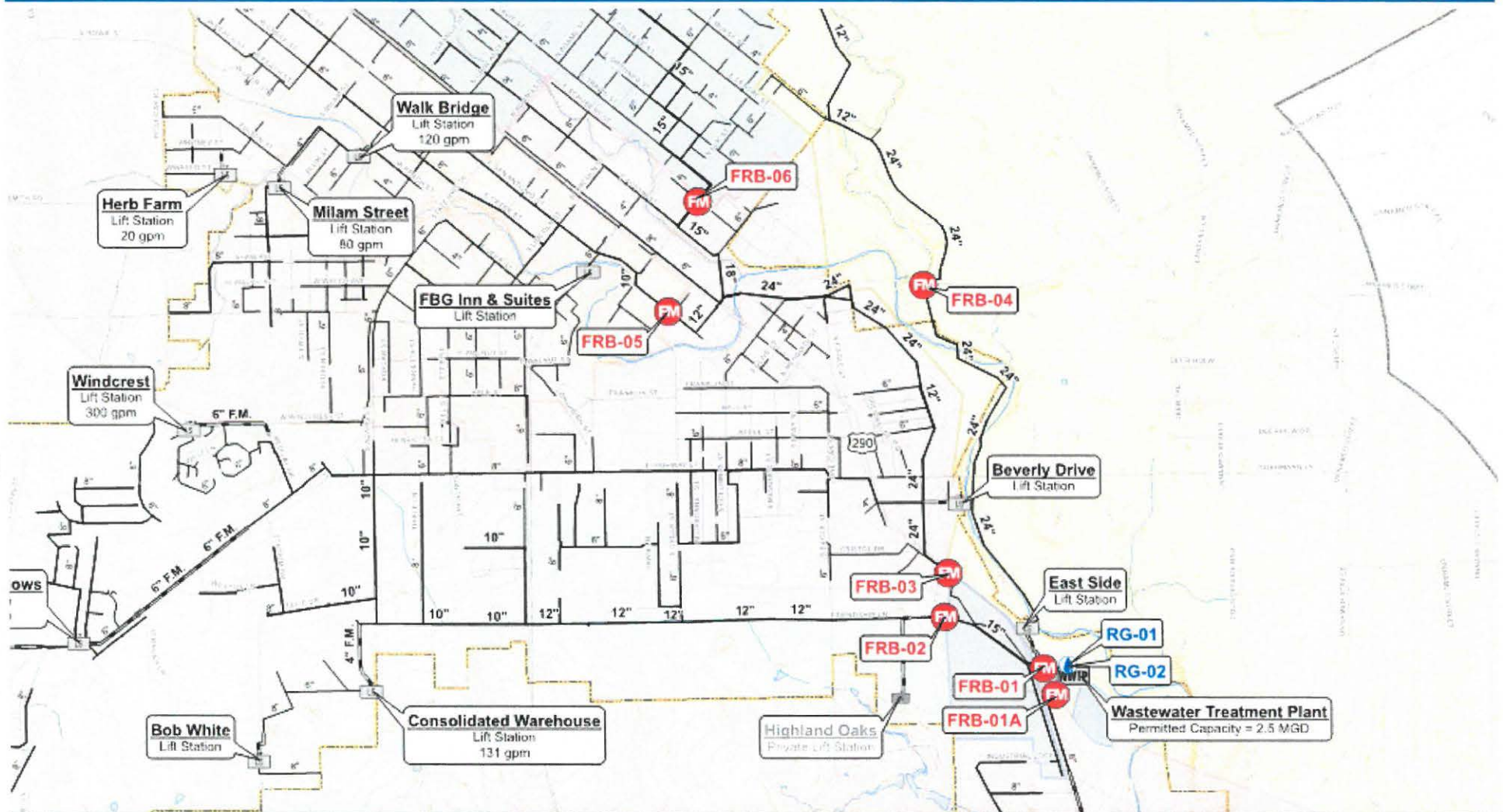
Condition Score Ranges

Condition Score	Description
0.00 - 1.25	Very Good
1.25 - 2.00	Good
2.00 - 3.00	Fair
3.00 - 4.00	Poor
4.00 - 5.00	Very Poor

Criticality Score Ranges

Risk Score	Description
0.00 - 1.25	Very Low
1.25 - 2.00	Low
2.00 - 3.00	Moderate
3.00 - 4.00	High
4.00 - 5.00	Very High

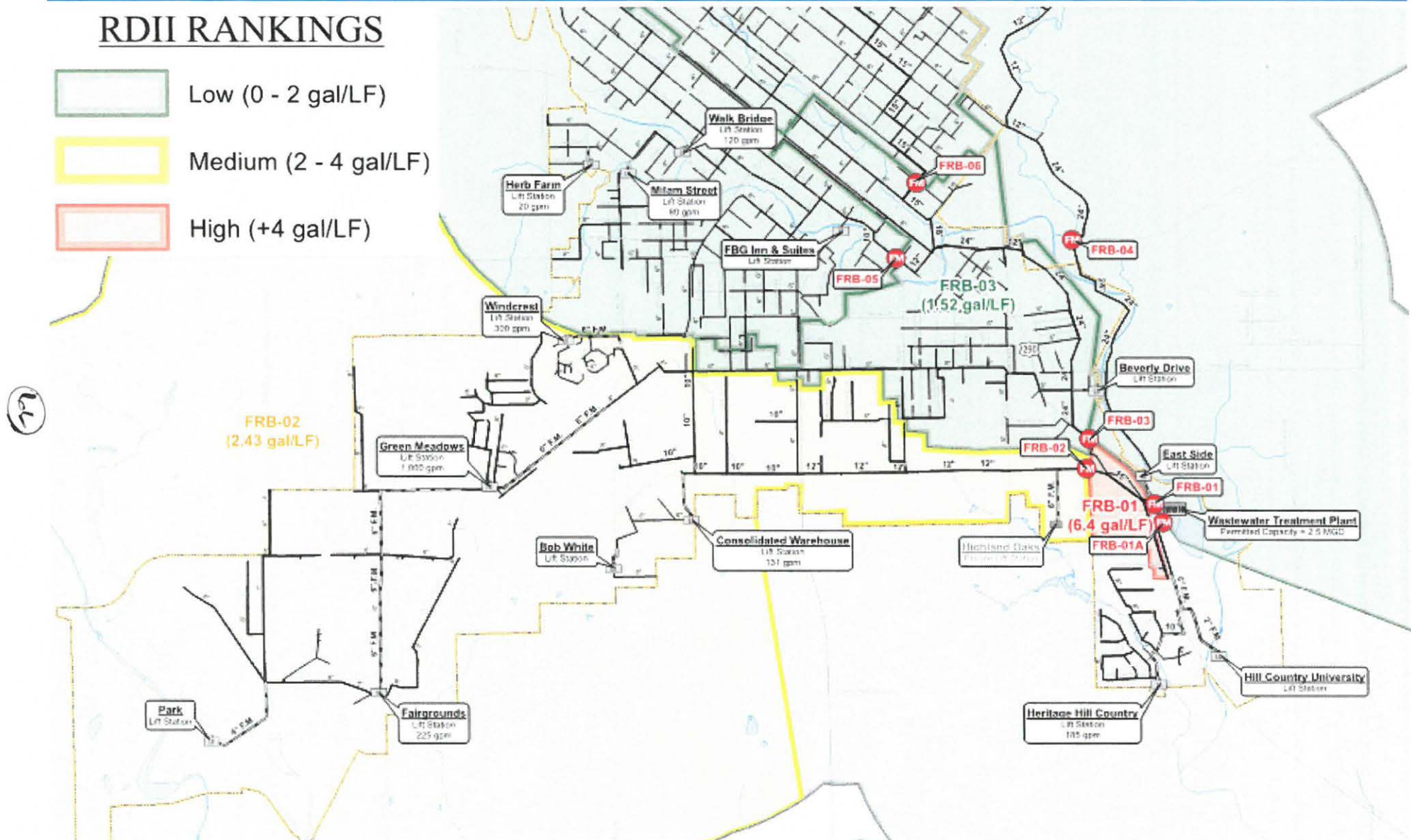
FLOW MONITORING



• October 21, 2015 – January 15, 2016

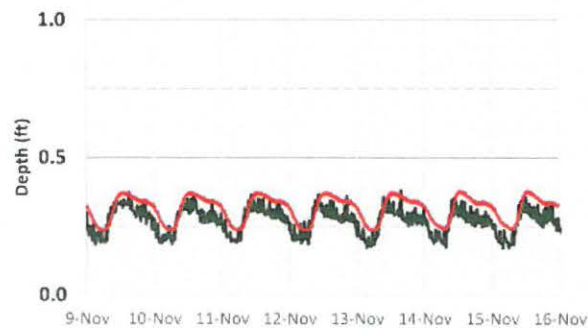
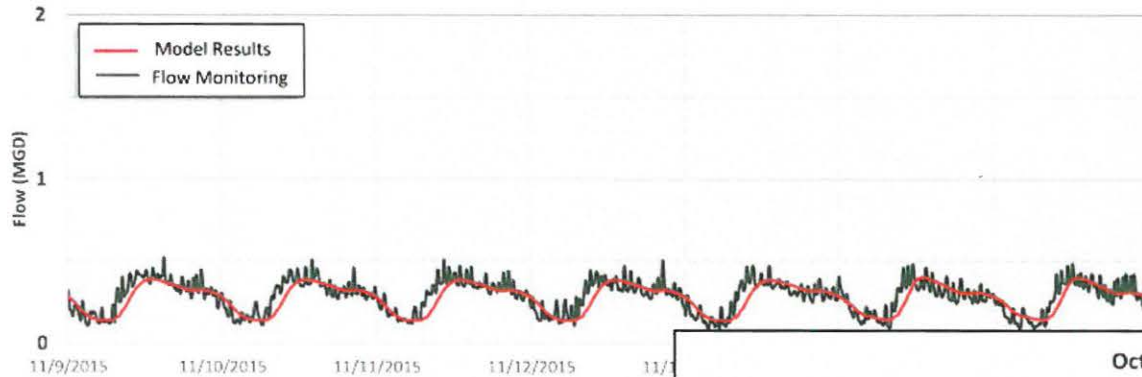
FLOW MONITORING

RDII RANKINGS

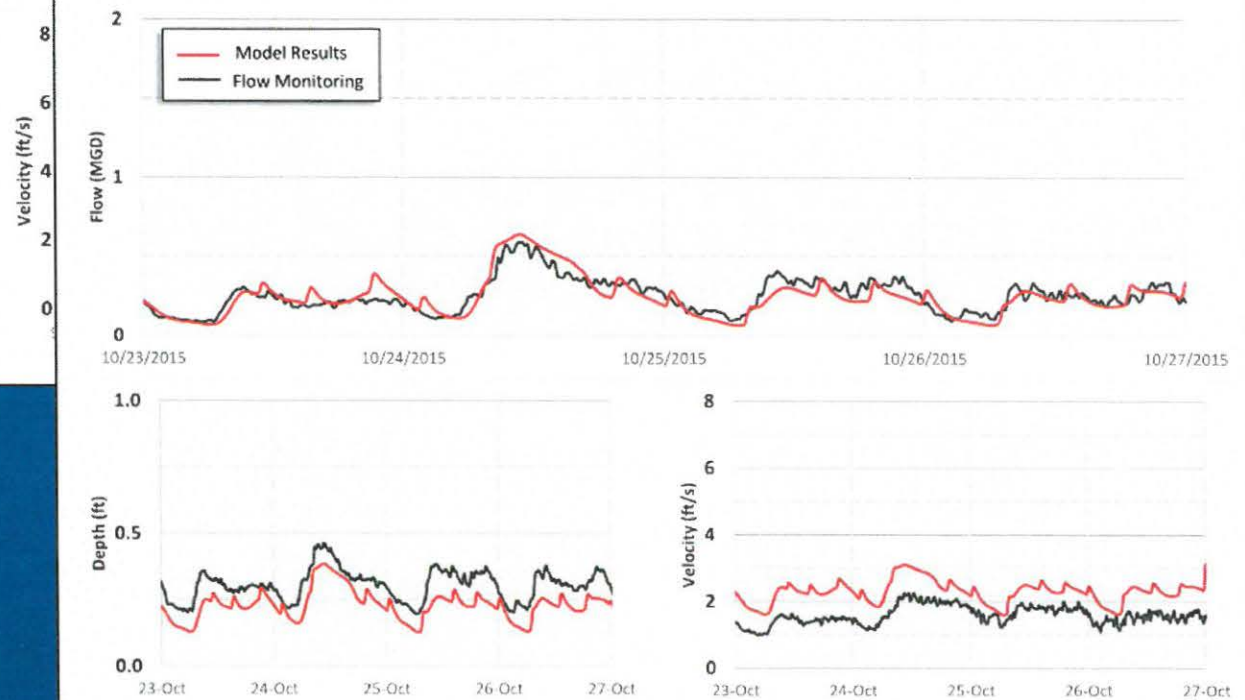


WASTEWATER MODEL CALIBRATION

November 9 - 15, 2015 Dry Week



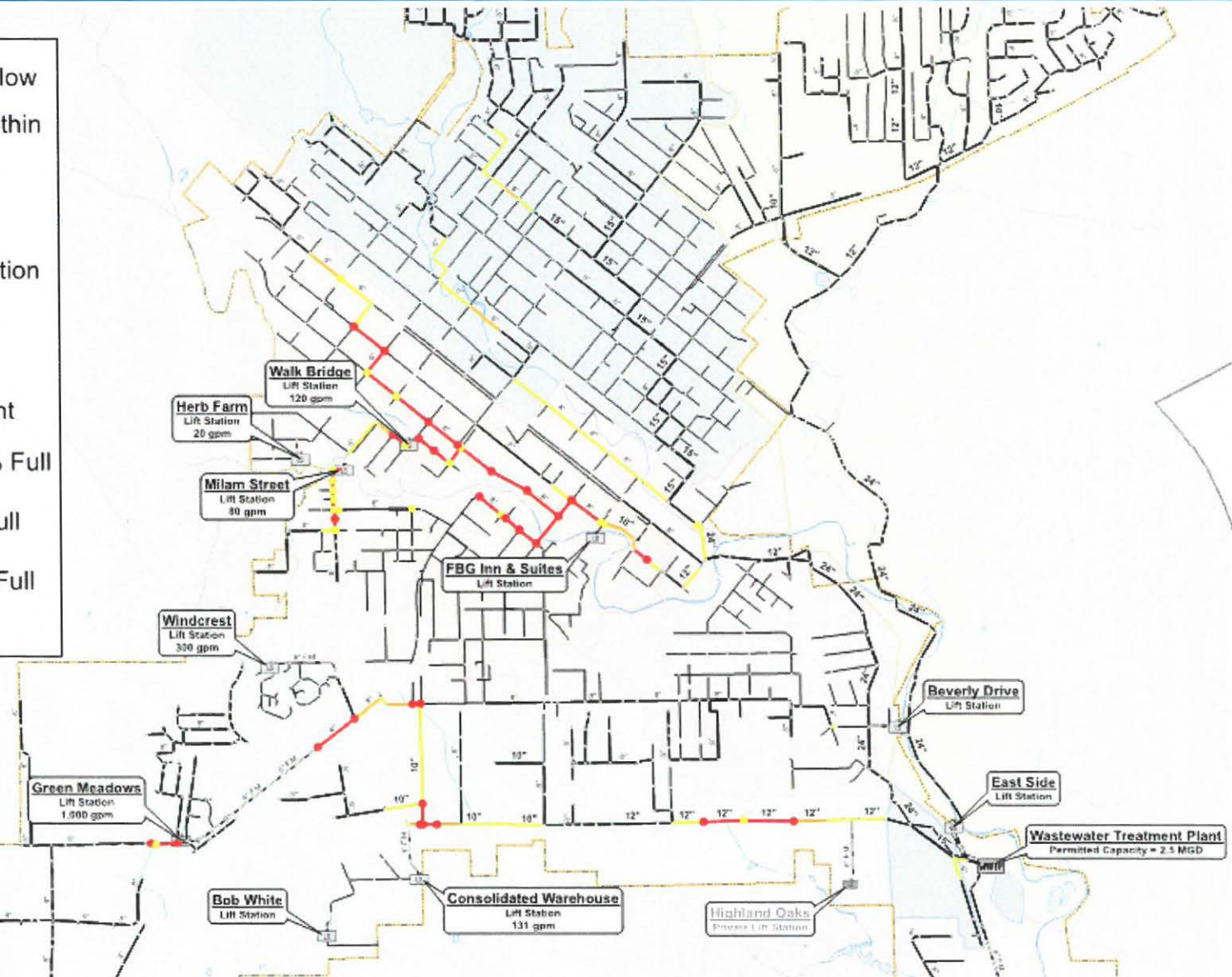
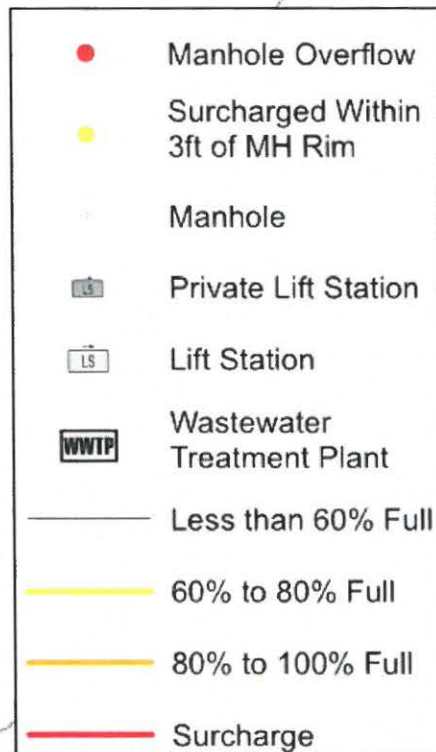
October 24, 2015 Rain Event



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WASTEWATER SYSTEM ANALYSES: EXISTING SYSTEM

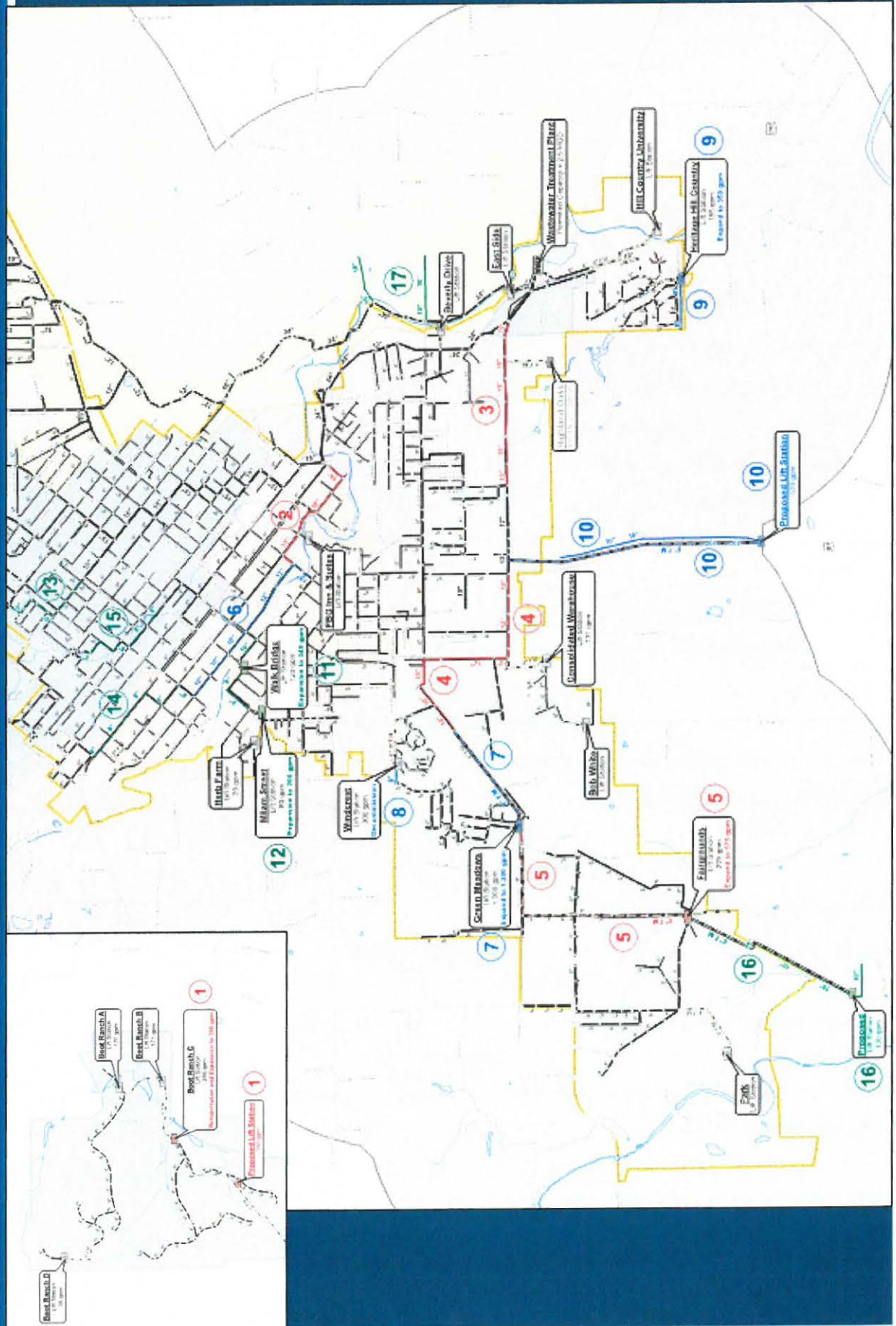
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WASTEWATER SYSTEM ANALYSES: EXISTING SYSTEM

- **Some capacity restrictions in FRB-02**
- **Green Meadows Lift Station undersized**
- **Walk Bridge Lift Station undersized**
- **Milam Street Lift Station undersized**
- **Some areas with 8-inch lines flowing into 6-inch lines**

SHORT-TERM WASTEWATER CIP



SHORT-TERM WASTEWATER CIP

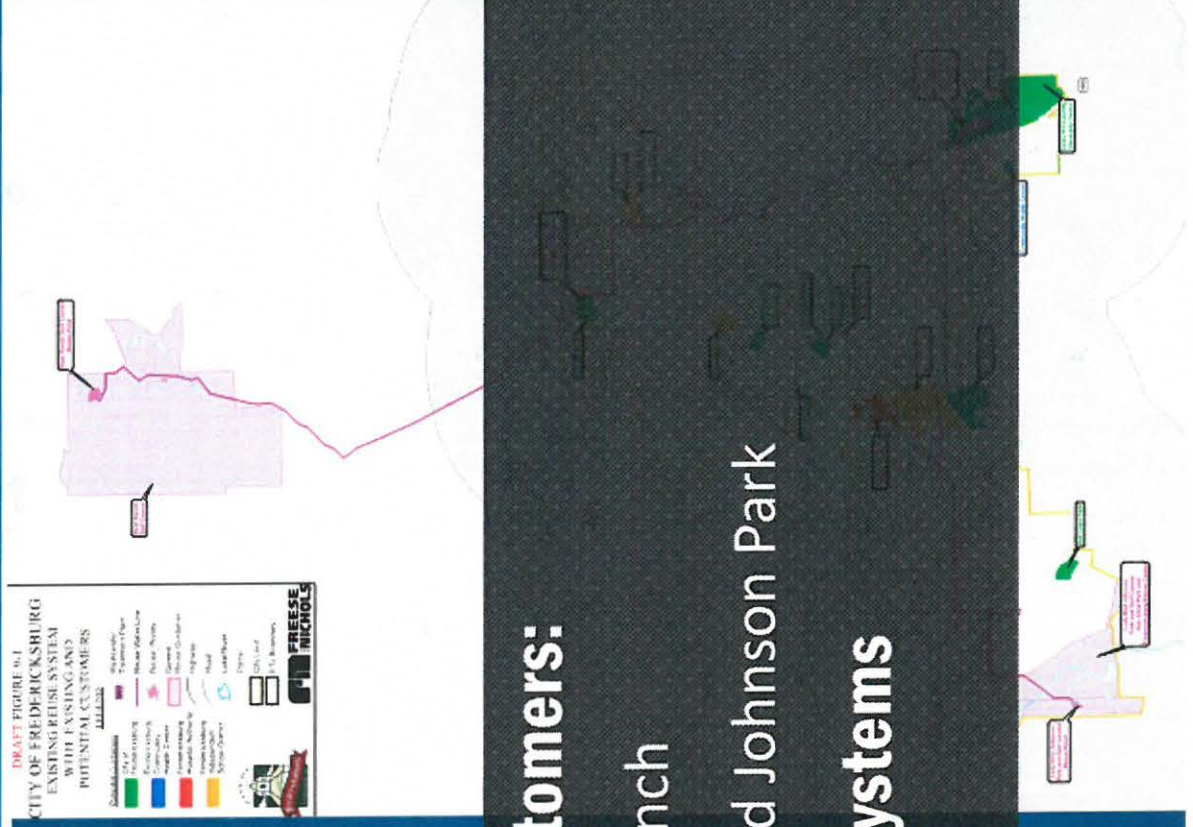
Phase	CIP No.	Project Name	Cost
5 Year	1	Boot Ranch Lift Station Capacity Expansion and Rehabilitation	\$3,214,300
	2	San Antonio Street Sewer Line Expansion	\$2,898,200
	3	Friendship Lane Sewer Line Expansion	\$1,504,000
	4	Adams Street Sewer Line Expansion	\$1,936,100
	5	Fair Grounds Lift Station Expansion	\$2,393,500
			\$11,946,100

WASTEWATER CIP

Phase	CIP No.	Project Name	Cost
5 Year	1	Boot Ranch Lift Station Capacity Expansion and Rehabilitation	\$3,214,300
	2	San Antonio Street Sewer Line Expansion	\$2,898,200
	3	Friendship Lane Sewer Line Expansion	\$1,504,000
	4	Adams Street Sewer Line Expansion	\$1,936,100
	5	Fair Grounds Lift Station Expansion	\$2,393,500
			\$11,946,100
10 Year	6	Creek Street Sewer Expansion	\$1,554,800
	7	Green Meadow Lift Station Expansion	\$2,960,100
	8	Windcrest Lift Station Decommission	\$1,674,400
	9	Heritage Hill Country Lift Station Expansion	\$919,500
	10	Highway 87 South Lift Station Sewer Line Expansion	\$5,281,900
			\$12,390,700
20 Year	11	Walk Bridge Lift Station Expansion	\$3,305,500
	12	Milam Street Lift Station Expansion	\$4,290,700
	13	West Morse Sewer Line Expansion	\$699,700
	14	Highway 290 West Sewer Line Expansion	\$1,115,300
	15	West Schubert Sewer Line Expansion	\$1,178,100
	16	Highway 16 South Lift Station and Sewer Line	\$4,170,400
	17	Goehmann Lane Sewer Line Extension	\$660,800
			\$15,420,500
			\$39,757,300

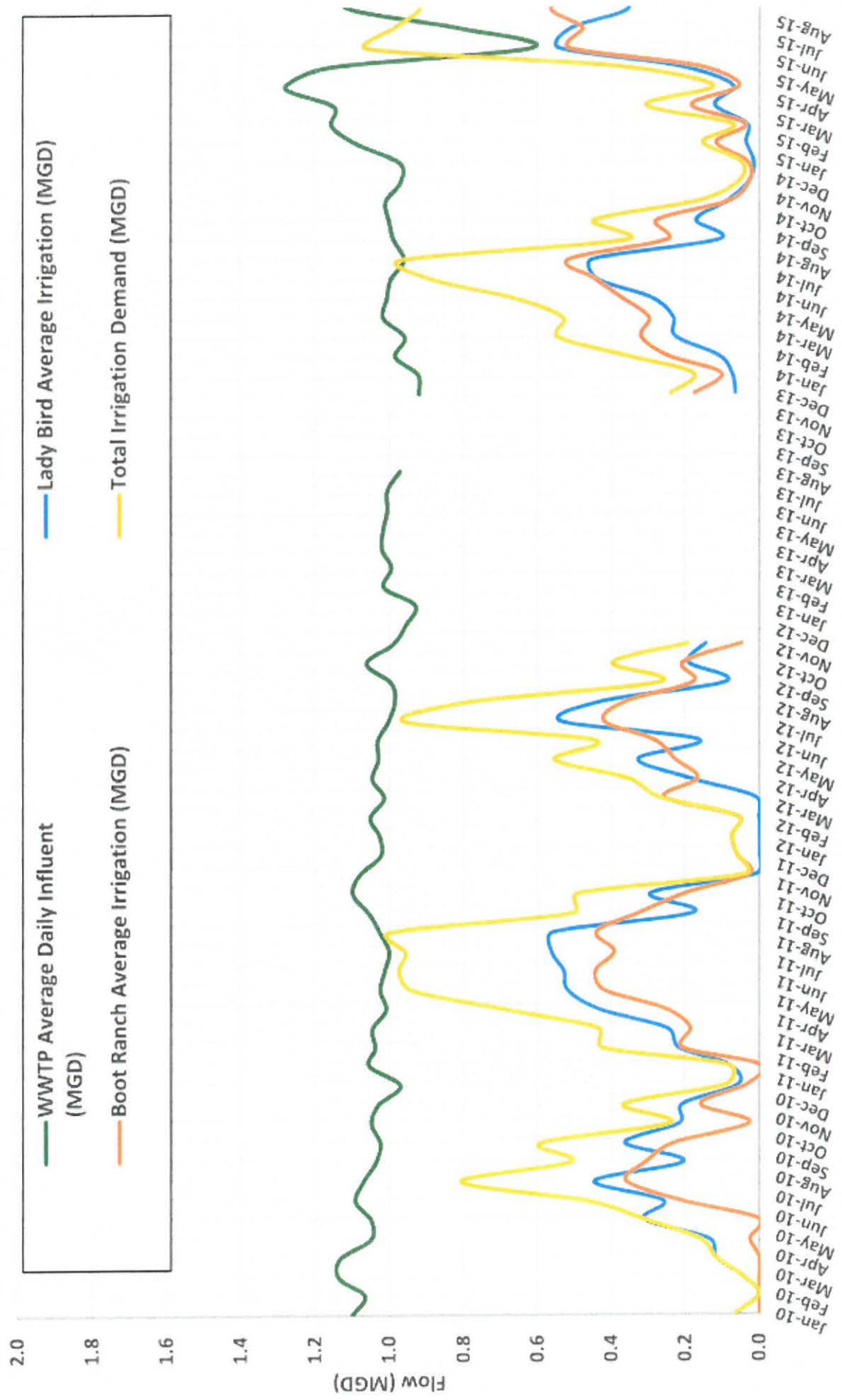
REUSE SYSTEM ANALYSES

EXISTING REUSE SYSTEM

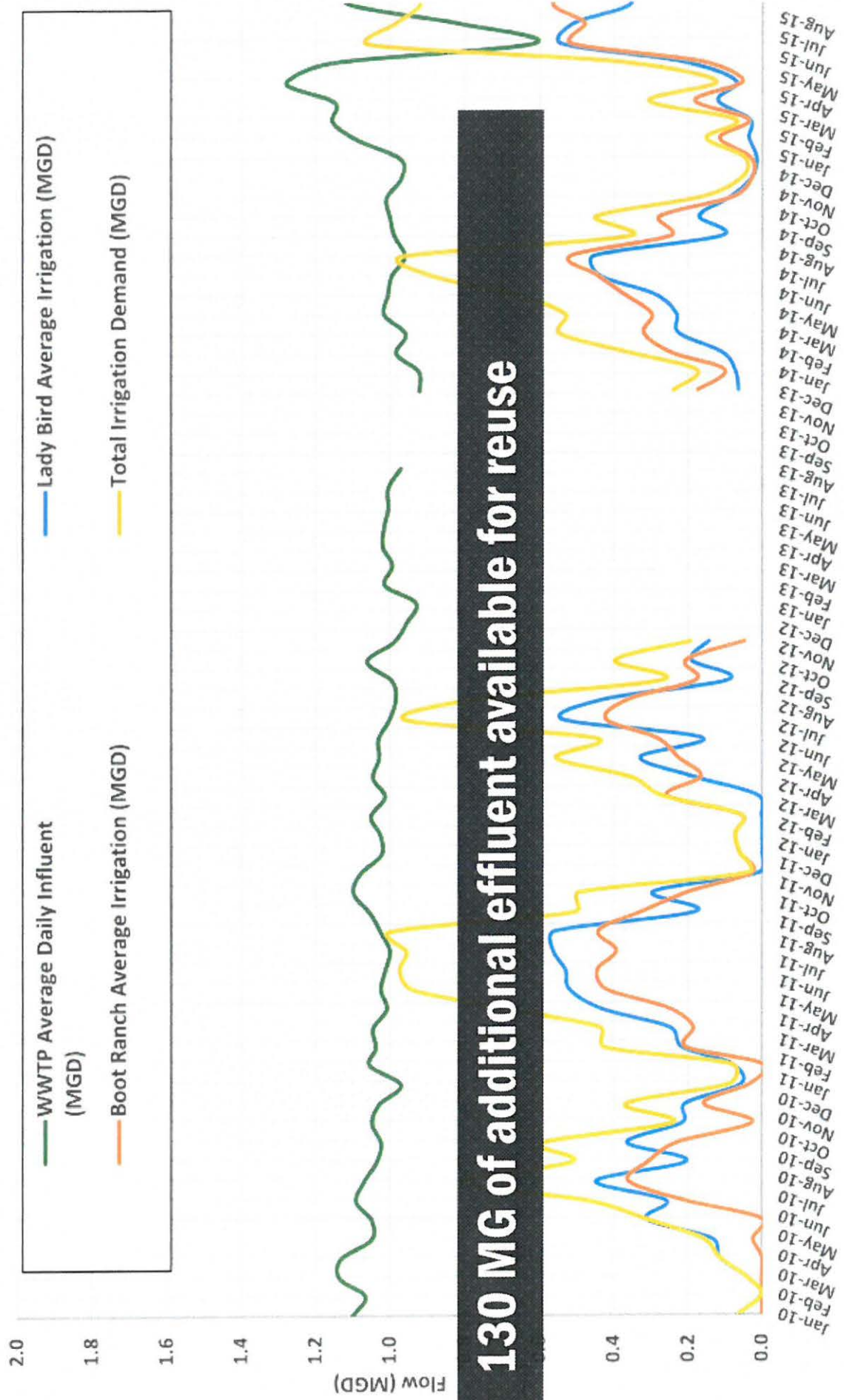


- **Existing Customers:**
 - Boot Ranch
 - Lady Bird Johnson Park
- **2 separate systems**

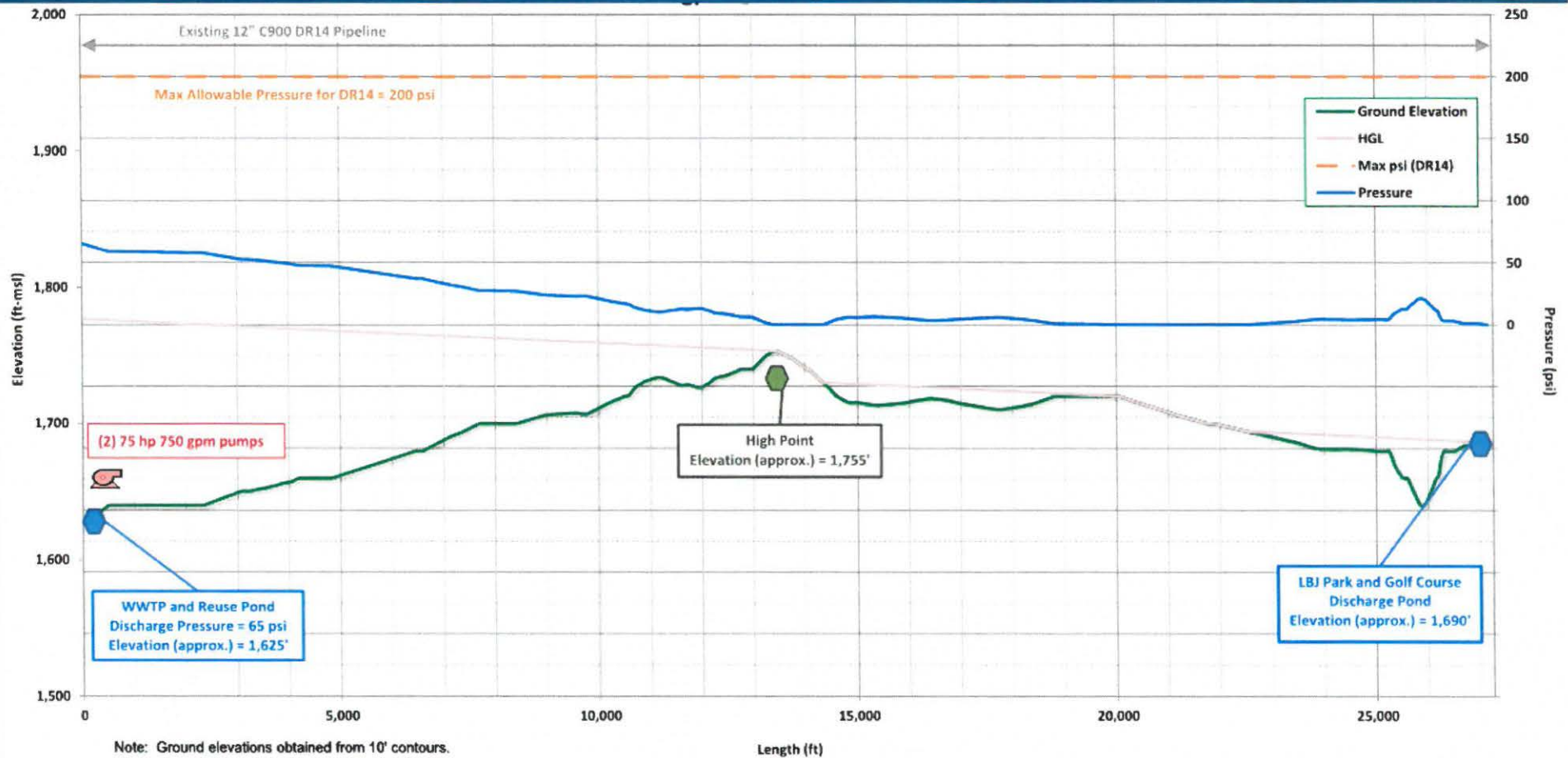
HISTORICAL WWTP SUPPLY AND DEMANDS



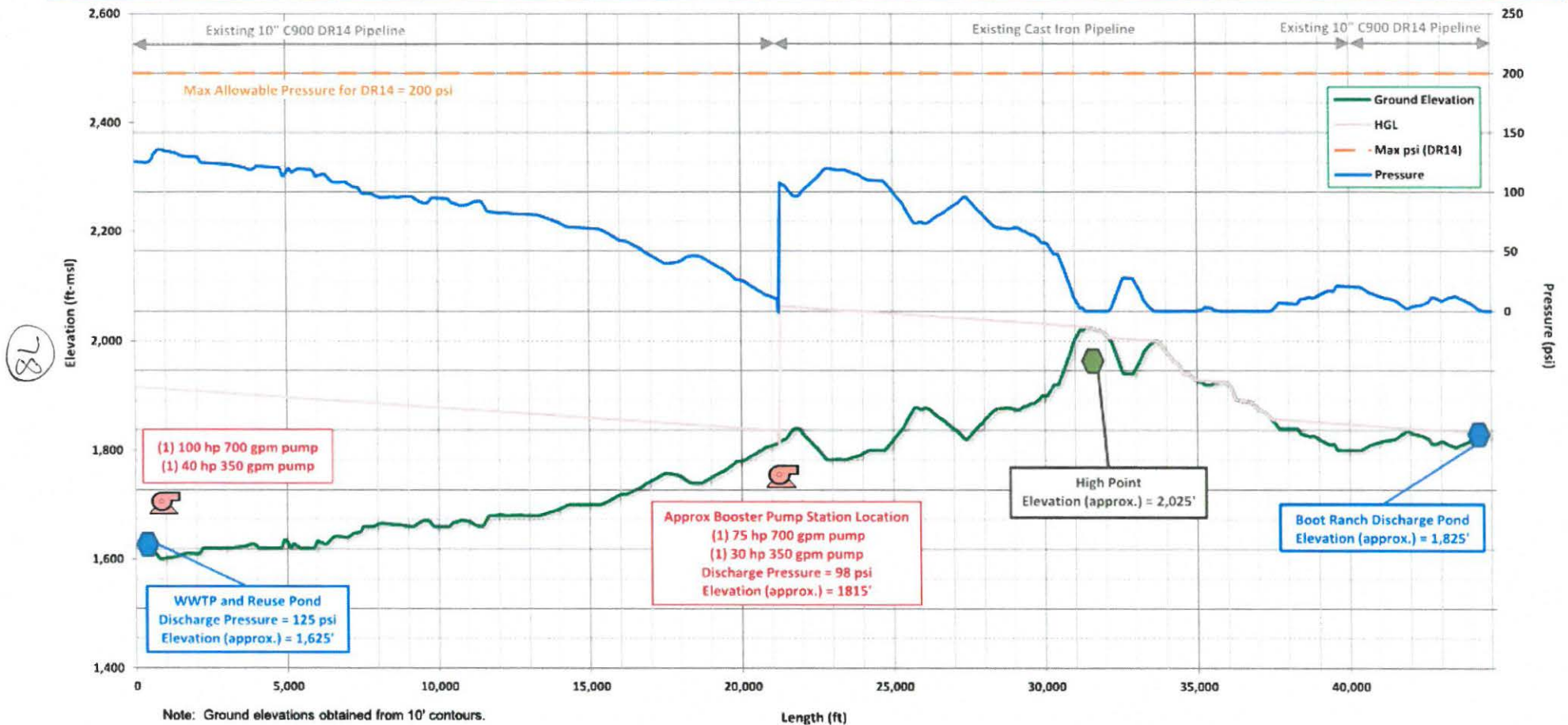
HISTORICAL WWTP SUPPLY AND DEMANDS



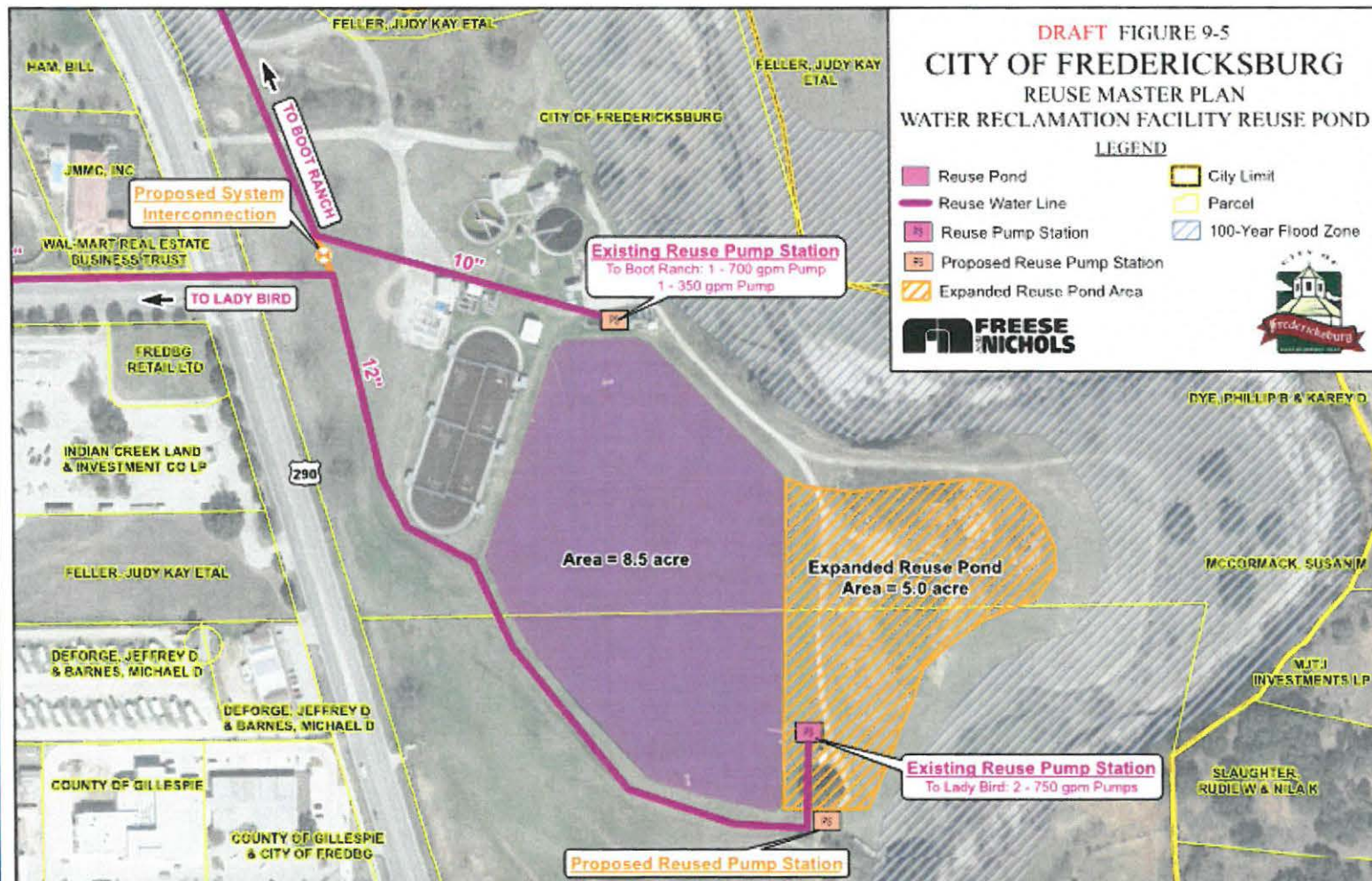
REUSE EXISTING SYSTEM ANALYSES: WWTP TO LBJ PARK



REUSE EXISTING SYSTEM ANALYSES: WWTP TO BOOT RANCH



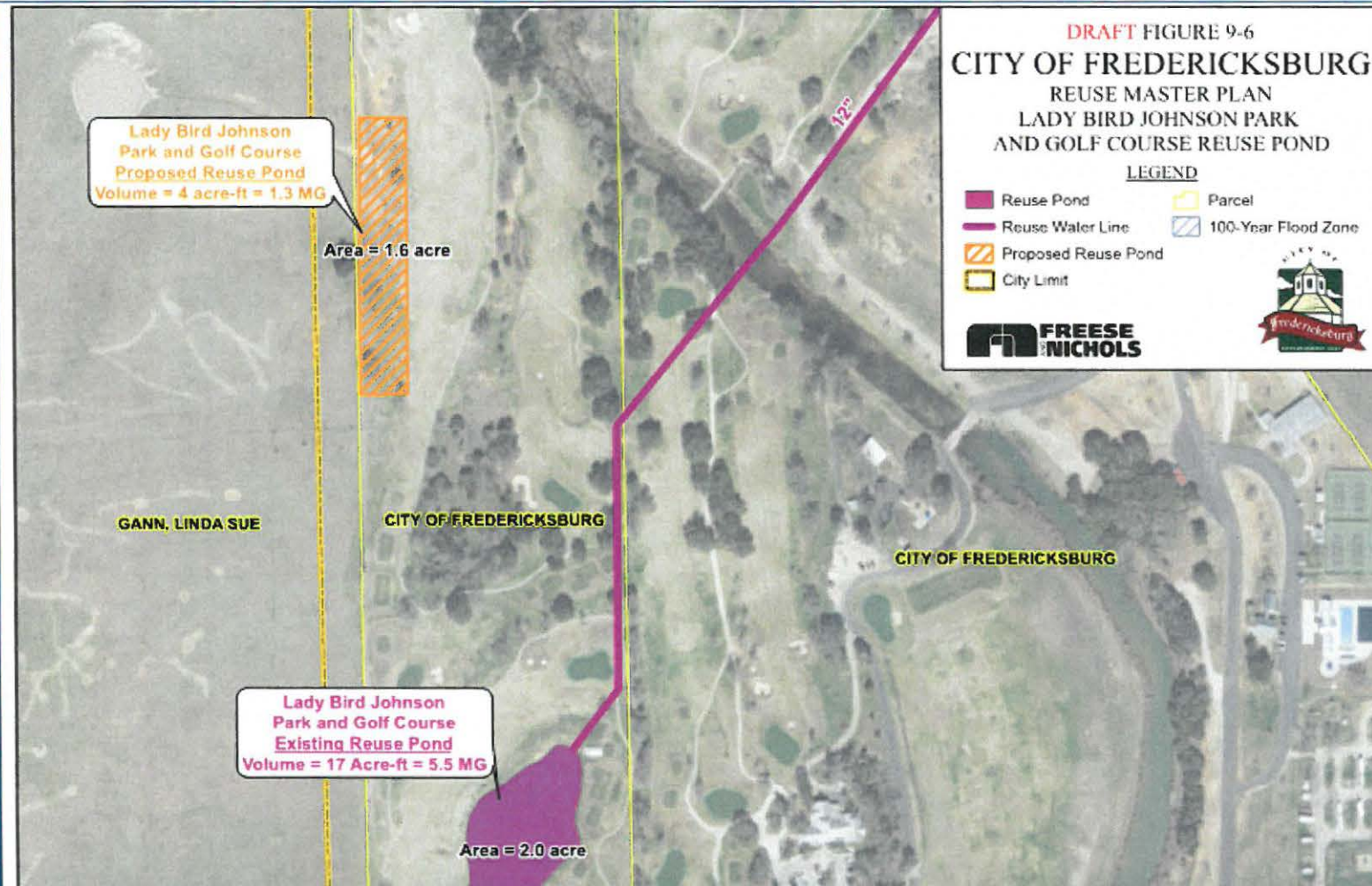
REUSE SYSTEM CIP



Total Project Cost: \$10,210,300

Water Reclamation Facility Reuse Pond is approximately 42 Million Gallons

REUSE SYSTEM CIP



Total Project Cost: \$2,436,400

QUESTIONS

Scott Cole, P.E.
Jessica Vassar, P.E.



Freese and Nichols, Inc.
Austin, Texas
512-617-3100

